			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR POWERTRAIN CONTROL MODULE AND SOLENOID VALVE	Check for the presence of loose electrical connections at the powertrain control module and the solenoid valve.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE WIRING	Check the correct insulation of the wiring between solenoid valve and powertrain control module.	Go to Step 3	Faults on solenoid valve wiring insulation	Restore the correct insulation for the wiring.
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	VARIABLE TIMING SYSTEM	Check that the variable valve timing system is working properly	Go to Step 4	Incorrect operation of the variable valve timing system	Replace the variable valve timing system Op. 1056F53 VARIABLE VALVE TIMING ELECTROMAGNETS IN INTAKE/EXHAUST TIMINIG SYSTEM - R.R.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR POWERTRAIN CONTROL MODULE AND SOLENOID VALVE	Check for the presence of loose electrical connections at the powertrain control module and the solenoid valve.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE WIRING	Check the correct insulation of the wiring between solenoid valve and powertrain control module.	Go to Step 3	Faults on solenoid valve wiring insulation	Restore the correct insulation for the wiring.
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	VARIABLE TIMING SYSTEM	Check that the variable valve timing system is working properly	Go to Step 4	Incorrect operation of the variable valve timing system	Replace the variable valve timing system Op. 1056F53 VARIABLE VALVE TIMING ELECTROMAGNETS IN INTAKE/EXHAUST TIMINIG SYSTEM - R.R.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR BATTERY, ALTERNATOR AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the battery, at the alternator and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY WIRING	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5010 STARTING AND RECHARING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	BATTERY CHARGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 4	Incorrect operation of battery	Recharge/replace the battery.
4	COMPONENT CONCERNED	ALTERNATOR CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ALTERNATOR	Check that the alternator is operating correctly by carrying out the test **See Test 5530AB**	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR BATTERY, ALTERNATOR AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the battery, at the alternator and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY WIRING	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5010 STARTING AND RECHARING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	BATTERY CHARGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 4	Incorrect operation of battery	Recharge/replace the battery.
4	COMPONENT CONCERNED	ALTERNATOR CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ALTERNATOR	Check that the alternator is operating correctly by carrying out the test **See Test 5530AB**	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	THROTTLE BODY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is operating correctly	Go to Step 2	Incorrect operation of the throttle body	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
2	COMPONENT CONCERNED	EXHAUST PIPES CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust lines.	Check that the exhaust pipes are fitted correctly	Go to Step 3	Incorrect exhaust pipe fitting	Restore the correct fitting of the exhaust pipes
3	COMPONENT CONCERNED	INTAKE CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake circuits	Check that the intake circuit components are fitted correctly	End of diagnosis	Incorrect fitting of the intake circuit components	Restore the correct fitting of the intake circuit

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Connect the diagnosis equipment to the ABS control unit and check for errors	End of diagnosis	Presence of errors in the ABS control unit	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve connections on exhaust	Check for loose connections on the variable valve timing system solenoid valve located on the exhaust axis	Go to Step 2	Loose connections on the variable valve timing system solenoid valve	Restore the correct connections on the solenoid valve
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Loose connections on the powertrain control module	Restore the correct connections on the powertrain control module
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between variable valve timing system solenoid valve and powertrain control module	Check for the presence of short circuits to earth on the variable valve timing system solenoid valve wiring.	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth on the wiring.
4	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the exhaust axis	Replace the variable valve timing system solenoid valve on exhaust axis **Op. 1056F48 TIMING SYSTEM VARIABLE VALVE TIMING ELECTROMAGNET (ONE) INTAKE OR EXHAUST R R**

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between variable valve timing system solenoid valve and powertrain control module	Check for the presence of a short circuit to battery between the variable valve timing system solenoid valve and the powertrain control module	Go to Step 2	Presence of a short circuit to battery	Restore the correct wiring to battery
2	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the exhaust axis	Replace the variable valve timing system solenoid valve on exhaust axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve connections on exhaust	Check for loose connections on the variable valve timing system solenoid valve located on the exhaust axis	Go to Step 2	Loose connections on the variable valve timing system solenoid valve	Restore the correct connections on the solenoid valve
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Loose connections on the powertrain control module	Restore the correct connections on the powertrain control module
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between variable valve timing system solenoid valve and powertrain control module	Check the wiring continuity between variable valve timing system solenoid valve and powertrain control module	Go to Step 4	Breaks in the wiring continuity	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the exhaust axis	Replace the variable valve timing system solenoid valve on exhaust axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	ENGINE OIL CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine oil circuit	Check for possible aluminium chips in the oil circuit, clogging the valve	Go to Step 2	Presence of aluminium chips in the oil circuit	Remove the chips from the engine oil circuit.
2	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the exhaust axis	Replace the variable valve timing system solenoid valve on exhaust axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct earth connections.
5	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct earth connections.
5	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections of variable valve timing system solenoid valve on intake	Check for loose connections on the variable valve timing system solenoid valve located on the intake axis	Go to Step 2	Loose connections on the variable valve timing system solenoid valve	Restore the correct connections on the solenoid valve
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Loose connections on the powertrain control module	Restore the correct connections on the powertrain control module
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between variable valve timing system solenoid valve and powertrain control module	Check for the presence of short circuits to earth on the wiring between variable valve timing system solenoid valve and powertrain control module	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth on the wiring
4	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the intake axis	Replace the variable valve timing system solenoid valve on intake axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections of variable valve timing system solenoid valve on intake	Check for loose connections on the variable valve timing system solenoid valve located on the intake axis	Go to Step 2	Loose connections on the variable valve timing system solenoid valve	Restore the correct connections on the solenoid valve
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Loose connections on the powertrain control module	Restore the correct connections on the powertrain control module
3	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between variable valve timing system solenoid valve and powertrain control module	Check for the presence of a short circuit to battery on the wiring between variable valve timing system solenoid valve and powertrain control module	Go to Step 4	Presence of short circuits to battery on the wiring	Restore the correct wiring to battery
4	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the intake axis	Replace the variable valve timing system solenoid valve on intake axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections of variable valve timing system solenoid valve on intake	Check for loose connections on the variable valve timing system solenoid valve located on the intake axis	Go to Step 2	Loose connections on the variable valve timing system solenoid valve	Restore the correct connections on the solenoid valve
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Loose connections on the powertrain control module	Restore the correct connections on the powertrain control module
3	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the intake axis	Replace the variable valve timing system solenoid valve on intake axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 4	Seepage inside the exhaust manifold.	Restore correct operation
4	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the sensor casing	Go to Step 5	Sensor fouled or contaminated	Clean the oxygen sensor
5	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check the correct fitting of the oxygen sensor	Go to Step 6	Oxygen sensor not fitted properly	Restore the correct fitting of the oxygen sensor
6	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check that the oxygen sensor is working correctly	End of diagnosis	Oxygen sensor not working properly.	Replace the oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ENGINE OIL CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine oil circuit	Check for possible aluminium chips in the oil circuit, clogging the valve	Go to Step 2	Presence of aluminium chips in the oil circuit	Remove the chips from the engine oil circuit.
2	COMPONENT CONCERNED	CHECK THE VARIABLE VALVE TIMING SYSTEM SOLENOID VALVE OPERATION ON THE EXHAUST AXIS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Variable valve timing system solenoid valve on exhaust axis	Check the correct operation of the variable valve timing system solenoid valve using a loose wiring to Vbatt to check the shaft movement	End of diagnosis	Incorrect operation of the variable valve timing system solenoid valve on the exhaust axis	Replace the variable valve timing system solenoid valve on exhaust axis **Op. 1056F48**

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			Test results		
1	COMPONENT CONCERNED	CAMSHAFT FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Camshaft	Check the camshaft correct fitting	Go to Step 2	Camshaft not correctly fitted	Restore the correct camshaft fitting.
2	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine timing	Check that the timing is correct	Go to Step 3	Timing not correct	Restore the correct timing.
3	COMPONENT CONCERNED	TIMING SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Timing sensor	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	CAMSHAFT FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Camshaft	Check the camshaft correct fitting	Go to Step 2	Camshaft not correctly fitted	Restore the correct camshaft fitting.
2	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine timing	Check that the timing is correct	Go to Step 3	Timing not correct	Restore the correct timing.
3	COMPONENT CONCERNED	TIMING SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Timing sensor	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK DUMP VALVE AND POWERTRAIN CONTROL MODULE CONNECTIONS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on dump valve and powertrain control module	Check the presence of loose connections on the dump valve and the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	DUMP VALVE WIRING CHECKS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve wiring	Check for the presence of short circuits to earth on the dump valve wiring	Go to Step 3	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth on the wiring
3	COMPONENT CONCERNED	DUMP VALVE FUNCTIONALITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve	Enter the active diagnosis with the diagnosis equipment and check the dump valve activation	End of diagnosis	Incorrect dump valve activation	Replace the dump valve **Op. 1048B58 TURBOCHARGER AIR BY-PASS VALVE - R.R.**

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			Test results		
1	COMPONENT CONCERNED	CHECK DUMP VALVE AND POWERTRAIN CONTROL MODULE CONNECTIONS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on dump valve and powertrain control module	Check the presence of loose connections on the dump valve and the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	DUMP VALVE WIRING CHECKS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve wiring	Check for the presence of a short circuit to battery in the wiring from dump valve to powertrain control module	Go to Step 3	Presence of a short circuit to battery on the wiring	Restore the correct wiring
3	COMPONENT CONCERNED	DUMP VALVE FUNCTIONALITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve	Enter the active diagnosis with the diagnosis equipment and check the dump valve activation	End of diagnosis	Incorrect dump valve activation	Replace the dump valve **Op. 1048B58**

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			Test results		
1	COMPONENT CONCERNED	CHECK DUMP VALVE AND POWERTRAIN CONTROL MODULE CONNECTIONS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on dump valve and powertrain control module	Check the presence of loose connections on the dump valve and the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	DUMP VALVE WIRING CHECKS	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve wiring	Check the correct continuity of the wiring	Go to Step 3	Incorrect wiring continuity	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	DUMP VALVE FUNCTIONALITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve	Enter the active diagnosis with the diagnosis equipment and check the dump valve activation	End of diagnosis	Incorrect dump valve activation	Replace the dump valve **Op. 1048B58**

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			Test results		
1	COMPONENT CONCERNED	AIR INTAKE CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air intake circuit	Check for possible obstructions in the air intake circuit	Go to Step 2	Presence of obstructions in the air intake circuit	Remove the obstructions in the air intake circuit
2	COMPONENT CONCERNED	DUMP VALVE FUNCTIONALITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Dump valve (solenoid valve stuck closed)	Enter the active diagnosis with the diagnosis equipment and check the dump valve activation	End of diagnosis	Incorrect dump valve activation	Replace the dump valve **Op. 1048B58**

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			Test results		
1	COMPONENT CONCERNED	BATTERY VOLTAGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Battery	Using the MIDTRONICS no. 2000037000 equipment, check the correct battery voltage	Go to Step 2	Battery voltage not correct	Recharge the battery
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for breaks in the wiring continuity for the main relay T09	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay T09 is working properly.	Go to Step 4	The main relay is not working correctly	Replace the main relay.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE STATUS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Battery	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 2	Battery not properly charged	Recharge or replace the battery
2	COMPONENT CONCERNED	MAIN RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check the correct operation of the main relay	Go to Step 3	Incorrect operation of the main relay	Replace the main relay
3	COMPONENT CONCERNED	CORRECT MAIN COIL POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main coil power supply	Check that the main coil power supply is correct	Go to Step 4	Incorrect power supply for the main coil	Restore the correct power supply for the main coil
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of the powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY VOLTAGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Battery	Check with the Midtronics no. 2000037000 equipment that the battery voltage is correct.	Go to Step 2	Battery voltage low	Recharge/replace the battery
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for breaks in the wiring continuity.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay is working properly.	Go to Step 4	The main relay is not working correctly	Replace the main relay.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter connections	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter connections	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR READING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Atmospheric pressure sensor	Check the pressure read by the atmospheric pressure sensor by connecting the diagnosis equipment to the powertrain control module	End of diagnosis	Incorrect atmospheric pressure value	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR READING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Atmospheric pressure sensor	Check the pressure read by the atmospheric pressure sensor by connecting the diagnosis equipment to the powertrain control module	End of diagnosis	Incorrect atmospheric pressure value	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ENGINE AIR TEMPERATURE SENSOR CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine air temperature sensor connections	Check for the presence of loose connections for the engine air temperature sensor	Go to Step 2	Presence of loose connections on the engine air temperature sensor	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	ENGINE AIR TEMPERATURE SENSOR WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine air temperature sensor wiring	Check the correct continuity of the engine air temperature sensor wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	CHECK AIR TEMPERATURE SENSOR WIRING INSULATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine air temperature sensor wiring	Check the correct insulation of the air temperature sensor wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	ENGINE AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine air temperature sensor	Check whether the engine air temperature sensor is working correctly	End of diagnosis	The intake air temperature sensor is not working correctly	Replace the air intake pressure/temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor connections	Check for the presence of loose connections for the fuel pressure sensor	Go to Step 2	Presence of loose connections on the fuel pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity between fuel pressure sensor and powertrain control module	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check that the earth connections are working properly	Go to Step 5	Incorrect operation of earth connections	Restore the correct earth connections
5	COMPONENT CONCERNED	FUEL PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check that the fuel pressure sensor is working correctly	End of diagnosis	Incorrect operation of fuel pressure sensor	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE AND FUEL PRESSURE SENSOR CONNECTIONS	Check for the presence of loose electrical connections at the powertrain control module and the fuel pressure sensor.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the continuity of the wiring between fuel pressure sensor and powertrain control module	Go to Step 3	Presence of breaks in the wiring	Restore the continuity for the wiring
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the correct insulation of the wiring between solenoid valve and powertrain control module.	End of diagnosis	Faults on solenoid valve wiring insulation	Restore the correct insulation for the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE AND FUEL PRESSURE SENSOR CONNECTIONS	Check for the presence of loose electrical connections at the powertrain control module and the fuel pressure sensor.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the continuity of the wiring between fuel pressure sensor and powertrain control module	Go to Step 3	Presence of breaks in the wiring	Restore the continuity for the wiring
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the correct insulation of the wiring between solenoid valve and powertrain control module.	End of diagnosis	Faults on solenoid valve wiring insulation	Restore the correct insulation for the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE AND FUEL PRESSURE SENSOR CONNECTIONS	Check for the presence of loose electrical connections at the powertrain control module and the fuel pressure sensor.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the continuity of the wiring between fuel pressure sensor and powertrain control module	Go to Step 3	Presence of breaks in the wiring	Restore the continuity for the wiring
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FUEL PRESSURE SENSOR WIRING	Check the correct insulation of the wiring between solenoid valve and powertrain control module.	End of diagnosis	Faults on solenoid valve wiring insulation	Restore the correct insulation for the wiring.

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			Test results		
1	COMPONENT CONCERNED	INTAKE AIR TEMPERATURE SENSOR WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for the presence of short circuits to earth on the intake air temperature sensor wiring	Go to Step 2	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth on the wiring
2	COMPONENT CONCERNED	ASPIRATED AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check whether the intake air temperature sensor is working correctly	End of diagnosis	The intake air temperature sensor is not working correctly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK THE CONNECTIONS FOR INTAKE AIR TEMPERATURE SENSOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake air temperature sensor connections	Check for loose connections on the intake air temperature sensor (integrated in the flow meter)	Go to Step 2	Presence of loose connections on the air temperature sensor	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INTAKE AIR TEMPERATURE SENSOR WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check the correct continuity of the intake air temperature sensor wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	INTAKE AIR TEMPERATURE SENSOR WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for the presence of short circuits to battery	Go to Step 5	Presence of short circuits to battery	Restore the correct wiring
5	COMPONENT CONCERNED	ASPIRATED AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check whether the intake air temperature sensor is working correctly	End of diagnosis	The intake air temperature sensor is not working correctly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK THE CONNECTIONS FOR INTAKE AIR TEMPERATURE SENSOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake air temperature sensor connections	Check for the presence of loose connections for the intake air temperature sensor	Go to Step 2	Presence of loose connections on the air temperature sensor	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	CHECK AIR TEMPERATURE SENSOR WIRING CONTINUITY	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check the correct continuity of the air temperature sensor wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	CHECK AIR TEMPERATURE SENSOR WIRING INSULATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check the correct insulation of the air temperature sensor wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check whether the intake air temperature sensor is working correctly	End of diagnosis	The intake air temperature sensor is not working correctly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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643 - ALFA 4C 1750 Turbo Benzina Air intake manifold temperature plausibility - Signal amplitude < minimum P0096-21

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643 - ALFA 4C	1750 Turbo Benzina	Air intake manifold temperature plausibility - Signal amplitude > maximum	P0096-22

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the flow meter	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check for the presence of short circuits to battery on the flow meter wiring	Go to Step 5	Short circuits to battery on the flow meter wiring	Restore the correct wiring insulation to battery
5	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check for the presence of short circuits to earth on the flow meter wiring	Go to Step 5	Short circuits to earth on the flow meter wiring	Restore the correct wiring insulation to earth
6	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the flow meter	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the flow meter	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the flow meter	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	CHECK FOR SEEPAGE IN INTAKE CIRCUIT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check if the flow meter is fouled, due to seepage in the intake circuit	Go to Step 6	Presence of seepage in the intake circuit	Remove the seepage in the intake circuit
6	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	FLOW METER POWER SUPPLY FUSE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter power supply fuse	Check that the power supply fuse is working correctly (20 A fuse F11)	Go to Step 2	Incorrect operation of the power supply fuse	Replace the flow meter power supply fuse
2	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the flow meter	Check for the presence of loose connections for the flow meter	Go to Step 3	Presence of loose connections for the flow meter	Restore the correct connections
3	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 4	Presence of loose connections to the powertrain control module	Restore the correct connections
4	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 5	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
5	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 6	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
6	COMPONENT CONCERNED	CHECK FOR SEEPAGE IN INTAKE CIRCUIT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check if the flow meter is fouled, due to seepage in the intake circuit	Go to Step 7	Presence of seepage in the intake circuit	Remove the seepage in the intake circuit
7	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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643 - ALFA 4C 1750 Turbo Benzina Air mass flow meter drift - Signal rate of change below threshold P0101-26

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643 - ALFA 4C 1750 Turbo Benzina Air mass flow meter drift - Signal rate of change above threshold P0101-27

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 4	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check the correct continuity of the earth connections for the intake pressure sensor	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct earth connections.
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	End of diagnosis	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor connections	Check the presence of loose electrical connections on the air temperature sensor.	Go to Step 2	Presence of loose electrical connections on the air temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose electrical connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for possible continuity interruptions in the wiring for the intake air temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for the presence of short circuits to earth on the air temperature sensor wiring	Go to Step 5	Presence of short circuits to earth on the air temperature sensor wiring	Restore the correct insulation to earth
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check the earth connections for the air temperature sensor	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check that the air temperature sensor is working properly	End of diagnosis	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor connections	Check the presence of loose electrical connections on the air temperature sensor.	Go to Step 2	Presence of loose electrical connections on the air temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose electrical connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for possible continuity interruptions in the wiring for the intake air temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO BATTERY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for the presence of short circuits to battery on the air temperature sensor wiring	Go to Step 5	Presence of short circuits to battery on the air temperature sensor wiring	Restore correct insulation to battery
5	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check that the air temperature sensor is working properly	Go to Step 6	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor connections	Check the presence of loose electrical connections on the air temperature sensor.	Go to Step 2	Presence of loose electrical connections on the air temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose electrical connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check for possible continuity interruptions in the wiring for the intake air temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check that the air temperature sensor wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor wiring	Check the earth connections for the air temperature sensor	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air temperature sensor	Check that the air temperature sensor is working properly	End of diagnosis	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter connections	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF FLOW METER CONNECTION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter connections	Check for the presence of loose connections for the flow meter	Go to Step 2	Presence of loose connections for the flow meter	Restore the correct connections
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	FLOW METER WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct continuity of the flow meter wiring	Go to Step 4	Presence of faults in the wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	FLOW METER WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flow meter wiring	Check the correct insulation of the flow meter wiring	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	FLOW METER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	flow meter	Check that the flow meter is working properly	End of diagnosis	Flow meter not working properly	Replace the flow meter Op. 1056F09 HOT FILM AIR FLOW METER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for the presence of short circuits to earth on the water temperature sensor wiring	Go to Step 5	Presence of short circuits to earth on the water temperature sensor wiring	Restore the correct insulation to earth.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check that the water temperature sensor wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check that the water temperature sensor wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on water temperature sensor	Check the presence of loose electrical connections on the water temperature sensor	Go to Step 2	Presence of loose electrical connections on the water temperature sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check for possible continuity interruptions in the wiring for the water temperature sensor	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor wiring	Check the earth connections for the water temperature sensor	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct earth connections.
5	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water temperature sensor	Check that the water temperature sensor is working properly	End of diagnosis	Water temperature sensor not working properly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal connections	Check the presence of loose electrical connections on the accelerator pedal connector.	Go to Step 2	Presence of loose connections on the accelerator pedal	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for breaks in the wiring continuity for the accelerator pedal	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	ACCELERATOR PEDAL WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for the presence of short circuits to battery on the accelerator pedal wiring	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct wiring.
5	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal	Check the correct operation of the accelerator pedal connecting the diagnosis equipment to the powertrain control module	End of diagnosis	The accelerator pedal is not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal connections	Check the presence of loose electrical connections on the accelerator pedal connector.	Go to Step 2	Presence of loose connections on the accelerator pedal	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for breaks in the wiring continuity for the accelerator pedal	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal	Check the correct operation of the accelerator pedal connecting the diagnosis equipment to the powertrain control module	End of diagnosis	The accelerator pedal is not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose connections for the throttle body connector	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module.	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	CHECK THROTTLE BODY WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for the presence of short circuits to battery on the throttle body wiring	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the continuity of the earth connections for the throttle body	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose connections for the throttle body connector	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module.	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the continuity of the earth connections for the throttle body	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose connections for the throttle body connector	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module.	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the continuity of the earth connections for the throttle body	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for loose electrical connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for the presence of short circuits to earth on the upstream oxygen sensor wiring.	Go to Step 5	Presence of short circuits to earth on the upstream oxygen sensor wiring.	Restore the correct insulation to earth.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check the condition of the earth connections.	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct earth connections.
6	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 7	Seepage inside the exhaust manifold	Restore correct operation
7	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing.	Go to Step 8	Sensor fouled or contaminated	Clean the upstream sensor from foreign bodies.
8	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	Upstream oxygen sensor	Check the upstream oxygen sensor correct fitting	Go to Step 9	Incorrect upstream oxygen sensor fitting	Restore the correct fitting of the upstream oxygen sensor
9	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on upstream oxygen sensor	Check for loose electrical connections for the upstream sensor connector	Go to Step 2	Presence of loose connections of the upstream oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for the presence of a short circuit to battery on the upstream oxygen sensor wiring.	Go to Step 4	Presence of short circuits to battery	Restore the correct wiring insulation to battery.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check the condition of the earth connections.	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct earth connections.
5	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 6	Seepage inside the exhaust manifold	Restore correct operation
6	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing.	Go to Step 7	Upstream sensor fouled, contaminated	Clean the upstream sensor from foreign bodies.
7	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	Upstream oxygen sensor	Check the upstream oxygen sensor correct fitting	Go to Step 8	Incorrect upstream oxygen sensor fitting	Restore the correct fitting of the upstream oxygen sensor
8	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON COILS AND INJECTOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils and injector	Check for the presence of loose connections of the coils on injector and on the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check the condition of the wiring insulation (possible short circuit to earth of coil and/or injector control)	Go to Step 4	Presence of a short circuit to earth	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Spark plug	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel) and that they are working properly.	Go to Step 5	Spark plug fouled	Restore the correct spark plug operation or replace the spark plug Op. 5510D10 SPARK PLUGS - R+R
5	COMPONENT CONCERNED	IGNITION COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition coils	Check that the ignition coils are working correctly.	Go to Step 6	Ignition coils not working properly	Replace the ignition coils Op. 5510C14 IGNITION COIL/S - R.R.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working correctly.	Go to Step 7	Injector not working properly	Replace the injector **Op. 1056B70**
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold	Restore the correct operation of the exhaust manifold
2	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing.	Go to Step 3	Upstream sensor fouled, contaminated	Clean the upstream sensor from foreign bodies
3	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is correctly fitted	Go to Step 4	Incorrect upstream sensor fitting	Restore the correct fitting of the upstream sensor
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly carrying out the test **See Test 1080BA CHECK ON OPERATION OF UPSTREAM LAMBDA SENSOR**	Go to Step 5	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for loose electrical connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for loose electrical connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for the presence of short circuits to earth on the upstream oxygen sensor wiring.	Go to Step 5	Presence of short circuits to earth on the upstream oxygen sensor wiring.	Restore the correct insulation to earth.
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for the presence of short circuits to battery on the oxygen sensor wiring	Go to Step 4	Presence of short circuits to battery on the wiring.	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	The oxygen sensor is not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	End of diagnosis	The oxygen sensor is not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module connector	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for the presence of short circuits to earth on the downstream oxygen sensor wiring	Go to Step 5	Presence of short circuits to earth on the wiring.	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	CHECK ON SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake manifold	Check for the presence of any seepage in the intake manifold.	Go to Step 6	Seepage inside the intake manifold.	Restore the correct operation of the intake manifold
6	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Oxygen sensor not working properly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module connector	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for the presence of short circuits to battery on the downstream oxygen sensor wiring	Go to Step 5	Presence of short circuits to battery on the wiring.	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	CHECK ON SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake manifold	Check for the presence of any seepage in the intake manifold.	Go to Step 6	Seepage inside the intake manifold.	Restore the correct operation of the intake manifold
6	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Oxygen sensor not working properly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module connector	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	CHECK ON SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake manifold	Check for the presence of any seepage in the intake manifold.	Go to Step 5	Seepage inside the intake manifold.	Restore the correct operation of the intake manifold
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Oxygen sensor not working properly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module connector	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Carry out a test swapping the upstream and downstream oxygen sensors (the fault follows the component)	Go to Step 5	The fault follows the component	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working correctly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF POWERTRAIN CONTROL MODULE SOFTWARE UPDATE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module calibration software is up to date.	Go to Step 2	Powertrain control module calibration not updated.	Update the powertrain control module calibration software
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 3	Presence of loose connections of the oxygen sensor	Restore the correct connections.
3	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 4	Presence of loose connections to the powertrain control module	Restore the correct connections.
4	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 5	Seepage inside the exhaust manifold.	Restore correct operation
5	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the sensor casing	Go to Step 6	Downstream sensor fouled, contaminated	Clean the oxygen sensor
6	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is correctly fitted	Go to Step 7	Incorrect downstream oxygen sensor fitting	Restore the correct fitting of the downstream oxygen sensor
7	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working correctly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	CHECK OF POWERTRAIN CONTROL MODULE SOFTWARE UPDATE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module calibration software is up to date.	Go to Step 2	Powertrain control module calibration not updated.	Update the powertrain control module calibration software
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections for the oxygen sensor connector	Go to Step 3	Presence of loose connections of the oxygen sensor	Restore the correct connections.
3	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 4	Presence of loose connections to the powertrain control module	Restore the correct connections.
4	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 5	Seepage inside the exhaust manifold.	Restore correct operation
5	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the sensor casing	Go to Step 6	Downstream sensor fouled, contaminated	Clean the downstream oxygen sensor
6	COMPONENT CONCERNED	OXYGEN SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is correctly fitted	Go to Step 7	Incorrect downstream oxygen sensor fitting	Restore the correct fitting of the downstream oxygen sensor
7	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working correctly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections on the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check for the presence of short circuits to earth on the downstream oxygen sensor wiring	Go to Step 5	Presence of short circuits to earth on the downstream sensor wiring	Restore the correct insulation to earth
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working properly	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections on the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check for the presence of short circuits to battery on the downstream oxygen sensor wiring	Go to Step 5	Presence of short circuits to battery on the downstream sensor wiring	Restore the correct wiring insulation to battery
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working properly	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Oxygen sensor connections	Check for the presence of loose connections on the oxygen sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	End of diagnosis	Downstream oxygen sensor not working properly	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working properly using the diagnosis equipment and carrying out the active diagnosis	Go to Step 2	Incorrect operation of the injector	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pressure sensor	Check for the presence of loose connections for the fuel pressure sensor	Go to Step 2	Presence of loose connections on the fuel pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	FUEL PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for the presence of short circuits to earth on the fuel pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth on the wiring
5	COMPONENT CONCERNED	FUEL PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check the correct operation of the fuel pressure sensor by connecting the diagnosis equipment to the powertrain control module and making the active diagnosis of the "fuel pressure regulator"	End of diagnosis	Incorrect operation of the fuel pressure regulator	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pressure sensor	Check for the presence of loose connections for the fuel pressure sensor	Go to Step 2	Presence of loose connections on the fuel pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for the presence of short circuits to battery on the wiring	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	FUEL PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check the correct operation of the fuel pressure sensor by connecting the diagnosis equipment to the powertrain control module and making the active diagnosis of the "fuel pressure regulator"	Go to Step 6	Incorrect operation of the fuel pressure regulator	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pressure sensor	Check for the presence of loose connections for the fuel pressure sensor	Go to Step 2	Presence of loose connections on the fuel pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	End of diagnosis	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pressure sensor	Check for the presence of loose connections for the fuel pressure sensor	Go to Step 2	Presence of loose connections on the fuel pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	End of diagnosis	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for the presence of loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and carry out the active diagnosis swapping the two injectors; also check that the fault follows the component	End of diagnosis	The fault follows the component	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for the presence of loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and carry out the active diagnosis swapping the two injectors; also check that the fault follows the component	End of diagnosis	The fault follows the component	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for the presence of loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and carry out the active diagnosis swapping the two injectors; also check that the fault follows the component	End of diagnosis	The fault follows the component	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for the presence of loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and carry out the active diagnosis swapping the two injectors; also check that the fault follows the component	End of diagnosis	The fault follows the component	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	Powertrain control module check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment to the powertrain control module and check the engine cooling water temperature value	Go to Step 2	Engine cooling water temperature value out of range	Do not carry out any operations; wait until the temperature reaches acceptable values again
2	COMPONENT CONCERNED	Powertrain control module check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment to the powertrain control module and check the engine oil temperature value	End of diagnosis	Engine oil temperature value out of range	Do not carry out any operations; wait until the temperature reaches acceptable values again

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			Test results		
1	COMPONENT CONCERNED	Powertrain control module check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment to the powertrain control module and check if overrevs occurred and for how long	Go to Step 2	Presence of overrevolutions	Instruct the customer in the correct use of the car
2	COMPONENT CONCERNED	Timing belt check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Timing belt	Check correct tensioning of the timing belt	Go to Step 3	Incorrect tensioning of the timing belt	Restore correct tensioning of the timing belt
3	COMPONENT CONCERNED	Engine timing check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine timing	Check that the engine timing is correct	Go to Step 4	Timing not correct	Restore the correct timing
4	COMPONENT CONCERNED	Correct valve operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Valves	Check the condition and operation of the valves	End of diagnosis	Valves not working correctly	Restore correct valve operation

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal connections	Check the presence of loose electrical connections on the accelerator pedal connector	Go to Step 2	Presence of loose electrical connections on the accelerator pedal	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	ACCELERATOR PEDAL WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for the presence of short circuits to battery on the accelerator pedal wiring.	Go to Step 5	Presence of a short circuit to battery on the wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal	Check that the accelerator pedal is working properly using the diagnostic equipment	End of diagnosis	The accelerator pedal is not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal connections	Check the presence of loose electrical connections on the accelerator pedal connector	Go to Step 2	Presence of loose electrical connections on the accelerator pedal	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	ACCELERATOR PEDAL WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal wiring	Check for the presence of short circuits to earth on the accelerator pedal wiring.	Go to Step 5	Presence of a short circuit to earth on the wiring	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Accelerator pedal	Check that the accelerator pedal is working properly using the diagnostic equipment	End of diagnosis	The accelerator pedal is not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose electrical connections for the throttle body connector.	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for the presence of a short circuit to battery on the wiring	Go to Step 5	Presence of a short circuit to battery on the wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for possible incorrectly tightened/oxidised earths	Go to Step 6	Incorrectly tightened/oxidised earths	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose electrical connections for the throttle body connector.	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for a short circuit to earth on the wiring	Go to Step 5	Presence of a short circuit to earth on the wiring	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for possible incorrectly tightened/oxidised earths	Go to Step 6	Incorrectly tightened/oxidised earths	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for the presence of loose electrical connections for the throttle body connector.	Go to Step 2	Presence of loose connections for the throttle body	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the correct insulation of the wiring	Go to Step 5	Incorrect insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for possible incorrectly tightened/oxidised earths	Go to Step 6	Incorrectly tightened/oxidised earths	Restore the correct earth connections.
6	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pump relay	Check for the presence of loose connections for the fuel pump relay	Go to Step 2	Presence of loose connections on the fuel pump relay	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay wiring	Check for breaks in the wiring continuity.	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	FUEL PUMP RELAY WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay wiring	Check for the presence of short circuits to earth on the wiring	Go to Step 5	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to battery
5	COMPONENT CONCERNED	PUMP RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay	Connect the diagnosis equipment and, using the active diagnosis, check whether the pump relay works properly.	End of diagnosis	Fuel pump relay not working properly	Replace the fuel pump relay

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on fuel pump relay	Check for the presence of loose connections for the fuel pump relay	Go to Step 2	Presence of loose connections on the fuel pump relay	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay wiring	Check for breaks in the wiring continuity.	Go to Step 4	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	FUEL PUMP RELAY WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay wiring	Check for the presence of short circuits to battery on the wiring	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery
5	COMPONENT CONCERNED	PUMP RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pump relay	Connect the diagnosis equipment and, using the active diagnosis, check whether the pump relay works properly.	End of diagnosis	Fuel pump relay not working properly	Replace the fuel pump relay

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check for the presence of short circuits to earth on the supercharging pressure sensor wiring.	Go to Step 5	Presence of a short circuit to earth on the wiring	Restore the correct insulation to earth.
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check for the presence of short circuits to battery on the supercharging pressure sensor wiring.	Go to Step 5	Presence of short circuits to battery on the wiring	Restore correct insulation to battery
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check for the presence of a short circuit to earth on the supercharging pressure sensor wiring.	Go to Step 5	Presence of short circuits to earth	Restore the correct wiring insulation to earth
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the insulation of the supercharging pressure sensor wiring.	Go to Step 5	Faults in the wiring insulation	Restore the correct insulation for the wiring
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the insulation of the supercharging pressure sensor wiring.	Go to Step 5	Faults in the wiring insulation	Restore the correct insulation for the wiring
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the correct continuity of the supercharging pressure sensor wiring	Go to Step 4	Faults in the continuity of the wiring	Restore the correct wiring
4	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor wiring	Check the insulation of the supercharging pressure sensor wiring.	Go to Step 5	Faults in the wiring insulation	Restore the correct insulation for the wiring
5	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging pressure sensor	Check that the supercharging pressure sensor is working properly	End of diagnosis	Supercharging pressure sensor not working properly	Replace the supercharging pressure sensor Op. 1056F41 AIR PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	CHECK FOR SEEPAGE FROM THE THROTTLE BODY TURBOCHARGER AIR DUCT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body turbocharger air duct	Check for seepage in the air duct from the turbocharger to the throttle body	Go to Step 4	Presence of seepage in the air duct from the turbocharger to the throttle body	Restore the correct air duct sealing.
4	COMPONENT CONCERNED	SUPERCHARGING AIR BY-PASS OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging air by-pass solenoid valve	Connect the diagnosis equipment to the powertrain control module and check that the solenoid valve is working correctly in active diagnosis	End of diagnosis	Incorrect operation of the by-pass solenoid valve	Replace the by-pass solenoid valve **Op. 1048B58**

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			Test results		
1	COMPONENT CONCERNED	SUPERCHARGING PRESSURE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging sensor connections	Check for loose connections on the supercharging pressure sensor	Go to Step 2	Presence of loose connections on the supercharging pressure sensor	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	CHECK FOR SEEPAGE FROM THE THROTTLE BODY TURBOCHARGER AIR DUCT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body turbocharger air duct	Check for seepage in the air duct from the turbocharger to the throttle body	Go to Step 4	Presence of seepage in the air duct from the turbocharger to the throttle body	Restore the correct air duct sealing.
4	COMPONENT CONCERNED	SUPERCHARGING AIR BY-PASS OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Supercharging air by-pass solenoid valve	Connect the diagnosis equipment to the powertrain control module and check that the solenoid valve is working correctly in active diagnosis	End of diagnosis	Incorrect operation of the by-pass solenoid valve	Replace the by-pass solenoid valve **Op. 1048B58**

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			Test results		
1	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on wastegate solenoid valve	Check for loose connections on the wastegate solenoid valve.	Go to Step 2	Presence of loose connections on wastegate solenoid valve	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve wiring	Check for the presence of short circuits to earth on the wastegate solenoid valve wiring	Go to Step 4	Presence of short circuits to earth.	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve	Check that the wastegate solenoid valve is working correctly	End of diagnosis	Wastegate solenoid valve is not working correctly	Replace the wastegate solenoid valve Op. 1064B44 WASTE GATE VALVE ACTIVATION SOLENOID VALVE - R.R.

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			Test results		
1	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on wastegate solenoid valve	Check for loose connections on the wastegate solenoid valve.	Go to Step 2	Presence of loose connections on wastegate solenoid valve	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve wiring	Check for the presence of short circuits to battery on the wastegate solenoid valve wiring	Go to Step 4	Presence of short circuits to battery.	Restore the correct wiring insulation to battery.
4	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve	Check that the wastegate solenoid valve is working correctly	End of diagnosis	Wastegate solenoid valve is not working correctly	Replace the wastegate solenoid valve Op. 1064B44 WASTE GATE VALVE ACTIVATION SOLENOID VALVE - R.R.

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			Test results		
1	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on wastegate solenoid valve	Check for loose connections on the wastegate solenoid valve.	Go to Step 2	Presence of loose connections on wastegate solenoid valve	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve wiring	Check the continuity of wastegate solenoid valve wiring	Go to Step 4	Presence of breaks in the wiring.	Restore the continuity for the wiring.
4	COMPONENT CONCERNED	WASTEGATE SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wastegate solenoid valve	Check that the wastegate solenoid valve is working correctly	End of diagnosis	Wastegate solenoid valve is not working correctly	Replace the wastegate solenoid valve Op. 1064B44 WASTE GATE VALVE ACTIVATION SOLENOID VALVE - R.R.

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	RELAY SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Relay switch	Check the correct relay switch operation	Go to Step 2	Incorrect operation of the relay switch	Replace the relay switch
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water pump and powertrain control module connections	Check for loose electrical connections at the water pump connector and at the powertrain control module.	Go to Step 3	Presence of loose connectors	Restore the correct connections.
3	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WATER PUMP WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check the insulation condition of the wiring between water pump and powertrain control module	Go to Step 5	Faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water pump and powertrain control module connections	Check for loose electrical connections at the water pump connector and at the powertrain control module.	Go to Step 2	Presence of loose connectors	Restore the correct connections.
2	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for the presence of short circuits to earth on the wiring between water pump and powertrain control module	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	RELAY SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Relay switch	Check the correct relay switch operation	Go to Step 5	Incorrect operation of the relay switch	Replace the relay switch or the water pump
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	RELAY SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Relay switch	Check the correct relay switch operation	Go to Step 2	Incorrect operation of the relay switch	Replace the relay switch
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water pump and powertrain control module connections	Check for loose electrical connections at the water pump connector and at the powertrain control module.	Go to Step 3	Presence of loose connectors	Restore the correct connections.
3	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for the presence of short circuits to battery on the wiring between water pump and powertrain control module	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	RELAY SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Relay switch	Check the correct relay switch operation	Go to Step 2	Incorrect operation of the relay switch	Replace the relay switch
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Water pump connections	Check for loose electrical connections at the water pump connector and at the powertrain control module.	Go to Step 3	Presence of loose connectors	Restore the correct connections.
3	COMPONENT CONCERNED	WATER PUMP WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between water pump and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SOLENOID VALVE WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check continuity of injector wiring	Go to Step 4	Presence of breaks on the injector wiring.	Restore the continuity for the wiring
4	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 5	Wiring insulation not correct	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	SOLENOID VALVE WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check continuity of injector wiring	Go to Step 4	Presence of breaks on the injector wiring.	Restore the continuity for the wiring
4	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 5	Wiring insulation not correct	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check continuity of injector wiring	Go to Step 4	Presence of breaks on the injector wiring.	Restore the continuity for the wiring
4	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 5	Wiring insulation not correct	Restore the correct insulation of the wiring
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module?	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	INJECTOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check for loose connections on the injector	Go to Step 2	Presence of loose connections on the injector	Restore the correct connections
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for the presence of loose connections on the powertrain control module	Go to Step 3	Presence of loose connections on powertrain control module?	Restore the correct connections
3	COMPONENT CONCERNED	INJECTOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct insulation of the injector wiring	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis	End of diagnosis	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils	Check the presence of loose electrical connections on the coil connector.	Go to Step 2	Presence of loose connections for the coils	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector connections	Check the presence of loose electrical connections on the injector connectors	Go to Step 3	Presence of loose connections for the injectors	Restore the correct connections.
3	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Check for possible loose connections to the powertrain control module	Go to Step 4	Presence of loose connections to the powertrain control module	Restore the correct connections.
4	COMPONENT CONCERNED	COIL WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil wiring	Check for breaks in the coil wiring continuity caused by oxidised or corroded terminals	Go to Step 5	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
5	COMPONENT CONCERNED	INJECTOR WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check for breaks in the injector wiring continuity caused by oxidised or corroded terminals	Go to Step 6	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
6	COMPONENT CONCERNED	COIL WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil wiring	Check that the coil wiring insulation is integer	Go to Step 7	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
7	COMPONENT CONCERNED	INJECTOR WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check that the injector wiring insulation is integer	Go to Step 8	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
8	COMPONENT CONCERNED	FUEL PRESSURE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	Low pressure fuel pump	Check that the low pressure fuel pump is working properly	Go to Step 9	Fuel pump faulty	Replace the fuel pump **Op. 1040A70**
9	COMPONENT CONCERNED	FUEL QUALITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel	Check the quality of the fuel and check for the presence of water.	Go to Step 10	Fuel not compliant	Replace the fuel with fuel that is compliant
10	COMPONENT CONCERNED	CHECK FOR SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake manifold	Check for any seepage in the intake/exhaust manifold	Go to Step 11	Seepage inside the intake/exhaust manifold	Restore correct operation
11	COMPONENT CONCERNED	CYLINDER COMPRESSION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine compression	Carry out cylinder compression test **Op. 0520G15 COMPRESSION TEST - CHECK WITH EXAMINER WITH SPARK PLUGS/INJECTORS REMOVED**	Go to Step 12	Cylinder compression insufficient	Go to Step 15
12	COMPONENT CONCERNED	Cylinder head tightening check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Cylinder head	Check the cylinder head correct tightening	Go to Step 13	Cylinder head tightening not correct	Restore the correct cylinder head tightening.
13	COMPONENT CONCERNED	Cylinder head gasket sealing check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Cylinder head gasket	Check the correct sealing of the gasket	Go to Step 14	Gasket damaged	Replace the cylinder head gasket Op. 1016C10 SINGLE CYLINDER HEAD - R.R. AND REPLACE GASKET .
14	COMPONENT CONCERNED	VALVE OIL SEAL SEALING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Valve oil seals	Check the correct sealing of the valve oil seals.	Go to Step 17	Missed sealing of valve oil seals	Restore the correct oil seal.
15	COMPONENT CONCERNED	CAUSE OF INSUFFICIENT COMPRESSION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine valves	After having removed the cylinder head Op. 1016C10 SINGLE CYLINDER HEAD - R.R. AND REPLACE GASKET check: valve sealing;	Go to Step 16	Valve sealing insufficient	Overhaul the cylinder head.
16	COMPONENT CONCERNED	CAUSE OF INSUFFICIENT COMPRESSION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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		CHECK			
	Engine cylinders	After having removed the cylinder head Op. 1016C10 SINGLE CYLINDER HEAD - R.R. AND REPLACE GASKET check: - cylinder/piston ring wear.	Go to Step 17	Cylinder/ring wear outside tolerances	Restore correct operating clearances.
17	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine timing	Check that the timing is correct	Go to Step 18	Timing not correct	Restore the correct timing
18	COMPONENT CONCERNED	PRESSURE READING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Pressure sensor	Check the pressure from the manifold pressure sensor by connecting the diagnostic equipment	Move on to Step 20	Pressure value incorrect	Go to Step 19
19	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Move on to Step 20	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
20	COMPONENT CONCERNED	FLUID LEVEL CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine oil	Check that the fluid level is correct.	Move on to Step 21	Presence of engine oil in the combustion chamber	Overhaul the engine.
21	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sliding columns	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel)	Go to Step 22	Spark plugs fouled	Replace spark plugs Op. 5510D10 SPARK PLUGS - R+R
22	COMPONENT CONCERNED	INJECTOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injectors	Check the correct injector operation	Go to Step 23	Injectors not operating	Replace the injectors Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
23	COMPONENT CONCERNED	COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coils	Check the ignition coils are working correctly	Go on to Step 24	Ignition coils not working	Replace ignition coils Op. 5510C14 IGNITION COIL/S - R.R.
24	COMPONENT CONCERNED	RPM SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	Engine rpm sensor	Check the position of the rpm sensor, rpm sensor/toothed wheel gap, toothed wheel status (possible impacts) and conformity of toothed wheel.	Go to Step 25	Rpm sensor not correctly positioned/air gap too large	Restore the correct operation of the sensor.
25	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON COILS AND INJECTOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils and injector	Check for the presence of loose connections of the coils on injector and on the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check the condition of the wiring's insulation (possible short circuit to Vbatt of coil and/or injector control)	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Spark plug	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel) and that they are working properly.	Go to Step 5	Spark plug fouled	Replace the spark plug
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working correctly.	Go to Step 6	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
6	COMPONENT CONCERNED	IGNITION COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition coils	Check that the ignition coils are working correctly.	End of diagnosis	Ignition coils not working properly	Replace the ignition coils Op. 5510C14 IGNITION COIL/S - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON COILS AND INJECTOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils and injector	Check for the presence of loose connections of the coils on injector and on the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check the condition of the wiring's insulation (possible short circuit to Vbatt of coil and/or injector control)	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Spark plug	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel) and that they are working properly.	Go to Step 5	Spark plug fouled	Replace the spark plug
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working correctly.	Go to Step 6	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
6	COMPONENT CONCERNED	IGNITION COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition coils	Check that the ignition coils are working correctly.	End of diagnosis	Ignition coils not working properly	Replace the ignition coils Op. 5510C14 IGNITION COIL/S - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON COILS AND INJECTOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils and injector	Check for the presence of loose connections of the coils on injector and on the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check the condition of the wiring's insulation (possible short circuit to Vbatt of coil and/or injector control)	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Spark plug	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel) and that they are working properly.	Go to Step 5	Spark plug fouled	Replace the spark plug
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working correctly.	Go to Step 6	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
6	COMPONENT CONCERNED	IGNITION COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition coils	Check that the ignition coils are working correctly.	End of diagnosis	Ignition coils not working properly	Replace the ignition coils Op. 5510C14 IGNITION COIL/S - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON COILS AND INJECTOR	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on coils and injector	Check for the presence of loose connections of the coils on injector and on the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CHECK COIL AND INJECTOR WIRING	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Coil and injector wiring	Check the condition of the wiring's insulation (possible short circuit to Vbatt of coil and/or injector control)	Go to Step 4	Wiring insulation not correct	Restore the correct insulation of the wiring
4	COMPONENT CONCERNED	SPARK PLUG CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Spark plug	Check the condition of the spark plugs (fouling by engine oil or unburnt fuel) and that they are working properly.	Go to Step 5	Spark plug fouled	Replace the spark plug
5	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	Check that the injector is working correctly.	Go to Step 6	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
6	COMPONENT CONCERNED	IGNITION COIL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition coils	Check that the ignition coils are working correctly.	End of diagnosis	Ignition coils not working properly	Replace the ignition coils Op. 5510C14 IGNITION COIL/S - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check for the presence of errors in the ABS control unit using the diagnosis equipment.	End of diagnosis	Presence of errors in the ABS control unit	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 5	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 5	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to earth on the knock sensor wiring, timing side	Go to Step 5	Presence of short circuits to earth on the sensor wiring	Restore the correct insulation to earth.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to battery on the knock sensor wiring, timing side	Go to Step 5	Presence of a short circuit to battery on the sensor wiring	Restore correct insulation to battery.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to earth on the sensor wiring	Go to Step 5	Presence of short circuits to earth on the wiring	Restore the correct insulation to earth for the sensor
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, timing side	Check for the presence of loose connections for the knock sensor on timing side	Go to Step 2	Presence of loose connections for the knock sensor on timing side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to battery on the sensor wiring	Go to Step 5	Presence of short circuits to battery on the wiring	Restore the correct insulation to battery for the sensor
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check the tightening and the correct position of the knock sensor on timing side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 5	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 5	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to earth on the wiring	Go to Step 5	Presence of short circuits to earth on the sensor wiring	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to battery on the wiring	Go to Step 5	Presence of short circuits to battery on the sensor wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to earth on the sensor wiring	Go to Step 5	Presence of short circuits to earth on the sensor wiring	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connection on knock sensor, flywheel side	Check for the presence of loose connections for the knock sensor on flywheel side	Go to Step 2	Presence of loose connections for the knock sensor on flywheel side	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Sensor wiring	Check for the presence of short circuits to battery on the sensor wiring	Go to Step 5	Presence of short circuits to battery on the sensor wiring	Restore the correct wiring insulation to battery.
5	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check the tightening and the correct position of the knock sensor on flywheel side	Go to Step 6	Sensor not correctly positioned/tightened	Restore correct sensor tightening/positioning.
6	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	End of diagnosis	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor connections	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose connections on the engine rpm sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module.	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor wiring	Check for the presence of short circuits to earth on the sensor wiring	Go to Step 5	Presence of short circuits to earth on the sensor wiring	Restore the correct wiring insulation to earth.
5	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor wiring	Check for the presence of short circuits to battery on the sensor wiring	Go to Step 6	Presence of short circuits to battery on the sensor wiring	Restore the correct wiring insulation to battery.
6	COMPONENT CONCERNED	CHECK RPM SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor	Check that the engine rpm sensor is working correctly.	End of diagnosis	Rpm sensor not working properly	Replace the rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check that the rpm sensor is positioned correctly	Go to Step 4	Sensor not in the correct position	Position the sensor correctly
4	COMPONENT CONCERNED	TOOTHED WHEEL CONFORMITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TOOTHED WHEEL	Check the conformity of the toothed wheel.	Go to Step 5	Toothed wheel does not conform	Replace the toothed wheel
5	COMPONENT CONCERNED	SENSOR/TOOTHED WHEEL GAP CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check the gap between the rpm sensor and the toothed wheel.	Go to Step 6	Excessive gap between rpm sensor and toothed wheel	Restore correct operation
6	COMPONENT CONCERNED	CHECK RPM SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check that the rpm sensor is working properly	End of diagnosis	Rpm sensor not working properly	Replace the rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check that the rpm sensor is positioned correctly	Go to Step 4	Sensor not in the correct position	Position the sensor correctly
4	COMPONENT CONCERNED	TOOTHED WHEEL CONFORMITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TOOTHED WHEEL	Check the conformity of the toothed wheel.	Go to Step 5	Toothed wheel does not conform	Replace the toothed wheel
5	COMPONENT CONCERNED	SENSOR/TOOTHED WHEEL GAP CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check the gap between the rpm sensor and the toothed wheel.	Go to Step 6	Excessive gap between rpm sensor and toothed wheel	Restore correct operation
6	COMPONENT CONCERNED	CHECK RPM SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RPM SENSOR	Check that the rpm sensor is working properly	End of diagnosis	Rpm sensor not working properly	Replace the rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the sensor wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to earth on the sensor wiring	Restore the correct insulation to earth for the sensor wiring
4	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 5	Timing not correct	Restore the correct timing.
5	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 6	Sensor not in the correct position	Position the sensor correctly
6	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the sensor wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to battery on the sensor wiring	Restore the correct insulation to battery for the sensor wiring
4	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 5	Timing not correct	Restore the correct timing.
5	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 6	Sensor not in the correct position	Position the sensor correctly
6	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 5	Timing not correct	Restore the correct timing.
4	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 6	Sensor not in the correct position	Position the sensor correctly
5	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check if a new powertrain control module has been fitted.	Go to Step 2	A new control unit has been fitted	Carry out the "Control unit replacement" configuration using the diagnosis equipment.
2	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 3	Timing not correct	Restore the correct timing.
3	COMPONENT CONCERNED	CONTROL UNIT LEARNING PROCEDURE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check whether the powertrain control module learning is correct.	End of diagnosis	Incorrect learning of the powertrain control module	Carry out the learning procedure.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to earth on the sensor wiring	Restore the correct insulation to earth on the wiring
4	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 5	Timing not correct	Restore the correct timing.
5	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 6	Sensor not in the correct position	Position the sensor correctly
6	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to battery on the sensor wiring	Restore the correct wiring insulation to battery
4	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 5	Timing not correct	Restore the correct timing.
5	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 6	Sensor not in the correct position	Position the sensor correctly
6	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 4	Timing not correct	Restore the correct timing.
4	COMPONENT CONCERNED	SENSOR POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is positioned properly	Go to Step 5	Sensor not in the correct position	Position the sensor correctly
5	COMPONENT CONCERNED	CHECK TIMING SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	TIMING SENSOR	Check that the timing sensor is working properly	End of diagnosis	Timing sensor not working properly	Replace the timing sensor Op. 1056F51 CAM ANGLE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check if a new powertrain control module has been fitted.	Go to Step 2	A new control unit has been fitted	Carry out the "Control unit replacement" configuration using the diagnosis equipment.
2	COMPONENT CONCERNED	TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE	Check that the timing is correct	Go to Step 3	Timing not correct	Restore the correct timing.
3	COMPONENT CONCERNED	CONTROL UNIT LEARNING PROCEDURE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check whether the powertrain control module learning is correct.	End of diagnosis	Incorrect learning of the powertrain control module	Carry out the learning procedure.

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EXHAUST MANIFOLD	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold	Restore correct operation.
2	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	OXYGEN SENSOR	Check for the presence of any oil or oxidation on the sensitive element or damage to the sensor casing.	Go to Step 3	Sensor fouled or contaminated	Clean the oxygen sensor
3	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	OXYGEN SENSOR	Check that it is correctly fitted.	Go to Step 4	Sensor not fitted correctly	Install the sensor correctly
4	COMPONENT CONCERNED	CHECK SENSOR FAULT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	OXYGEN SENSOR	Make the test by reversing the upstream/downstream oxygen sensors	Go to Step 5	The fault is in the component	Replace the faulty oxygen sensor. Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the solenoid and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	DUCT CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check the condition of the ducts connected to the solenoid.	Go to Step 4	Presence of faults in the solenoid valve ducts	Restore the correct solenoid valve ducts operation.
4	COMPONENT CONCERNED	SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Connect the diagnosis equipment to the powertrain control module to check the correct evaporation valve operation.	End of diagnosis	Solenoid valve not working properly	Replace the solenoid **Op. 1080E28 PIPE FROM ACTIVE CHARCOAL FILTER TO SOLENOID - R.R.**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the solenoid and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	DUCT CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check the condition of the ducts connected to the solenoid.	Go to Step 4	Presence of faults in the solenoid valve ducts	Restore correct operation.
4	COMPONENT CONCERNED	SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Connect the diagnosis equipment to the powertrain control module to check the correct evaporation valve operation.	End of diagnosis	Solenoid valve not working properly	Replace the solenoid **Op. 1080E28**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the solenoid and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	DUCT CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check the condition of the ducts connected to the solenoid.	Go to Step 5	Presence of faults in the solenoid valve ducts	Restore correct operation.
5	COMPONENT CONCERNED	SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check that the solenoid is working properly.	End of diagnosis	Solenoid valve not working properly	Replace the solenoid Op. 1080E20 ENABLEMENT SOLENOID FOR FLOW OF FUEL VAPOUR TO INLET - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the solenoid and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the wiring See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery.
4	COMPONENT CONCERNED	DUCT CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check the condition of the ducts connected to the solenoid.	Go to Step 5	Presence of faults in the solenoid valve ducts	Restore correct operation.
5	COMPONENT CONCERNED	SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check that the solenoid is working properly.	End of diagnosis	Solenoid valve not working properly	Replace the solenoid Op. 1080E20 ENABLEMENT SOLENOID FOR FLOW OF FUEL VAPOUR TO INLET - R+R

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the solenoid and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SOLENOID VALVE AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	DUCT CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check the condition of the ducts connected to the solenoid.	Go to Step 4	Presence of faults in the solenoid valve ducts	Restore correct operation.
4	COMPONENT CONCERNED	SOLENOID VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SOLENOID VALVE	Check that the solenoid is working properly.	End of diagnosis	Solenoid valve not working properly	Replace the solenoid Op. 1080E20 ENABLEMENT SOLENOID FOR FLOW OF FUEL VAPOUR TO INLET - R+R

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN	Connect the diagnosis equipment and check for errors in the control units.	End of diagnosis	Errors present	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	COOLING FAN 1ST SPEED CONTROL RELAY	Connect the diagnosis equipment to the powertrain control module to check the correct operation of the fan 1st speed control relay.	End of diagnosis	The 1st speed control relay does not activate	Do not perform any operation. Wait until the temperature returns to normal operating conditions.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the wiring See E5020 ENGINE COOLING	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth
4	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Check that the relay is working properly using the active diagnosis	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the wiring See E5020 ENGINE COOLING	Go to Step 4	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery
4	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Connect the diagnosis equipment and, using the active diagnosis, check whether the relay works properly.	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Connect the diagnosis equipment and, using the active diagnosis, check whether the relay works properly.	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	COOLING FAN 2ND SPEED CONTROL RELAY	Connect the diagnosis equipment to the powertrain control module to check the correct operation of the fan 2nd speed control relay.	End of diagnosis	The 2nd speed control relay does not activate	Do not perform any operation. Wait until the temperature returns to normal operating conditions.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY AND POWERTRAIN CONTROL MODULE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the wiring	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth
4	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Connect the diagnosis equipment and, using the active diagnosis, check whether the relay works properly.	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY AND POWERTRAIN CONTROL MODULE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the wiring	Go to Step 4	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery
4	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Connect the diagnosis equipment and, using the active diagnosis, check whether the relay works properly.	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	RELAY AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN RELAY AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E5020 ENGINE COOLING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	FAN RELAY	Connect the diagnosis equipment and, using the active diagnosis, check whether the relay works properly.	End of diagnosis	Relay not working properly	Replace the relay.

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			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT ERROR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS CONTROL UNIT	Check for the presence of errors in the ABS control unit using the diagnosis equipment.	Go to Step 2	Presence of errors in the ABS control unit	Proceed as instructed by the diagnostic equipment.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN ABS CONTROL UNIT AND POWERTRAIN CONTROL MODULE	Check the connection line between ABS control unit and powertrain control module	Move on to Step 3	Presence of faults at the connection	Restore the correct connection.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE CONTROL UNIT AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E7023 ESP	End of diagnosis	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.

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			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT ERROR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS CONTROL UNIT	Check for the presence of errors in the ABS control unit using the diagnosis equipment.	Go to Step 2	Presence of errors in the ABS control unit	Proceed as instructed by the diagnostic equipment.
2	COMPONENT CONCERNED	BODY COMPUTER CONTROL UNIT ERROR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BODY COMPUTER CONTROL UNIT	Check for the presence of errors in the Body Computer control unit using the diagnosis equipment.	Go to Step 3	Presence of errors in the Body Computer control unit	Proceed as instructed by the diagnostic equipment.
3	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN ABS CONTROL UNIT AND BODY COMPUTER	Check the connection line between ABS control unit and Body Computer	Go to Step 4	Presence of faults at the connection	Restore the correct connection.
4	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE CONTROL UNIT AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E7023 ESP	End of diagnosis	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.

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			Test results		
1	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS CONTROL UNIT	Check for the presence of errors in the ABS control unit using the diagnosis equipment.	End of diagnosis	Presence of errors in the ABS control unit	Continue as instructed by the diagnosis equipment.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the brake switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	BRAKE PEDAL SWITCH POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Check that the brake switch is in the correct position.	Go to Step 4	Incorrect positioning of the brake pedal switch	Repositioning of the brake pedal switch in its correct position.
4	COMPONENT CONCERNED	BRAKE PEDAL SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Check the correct operation of the switch using the diagnosis equipment connected to the powertrain control module.	End of diagnosis	Incorrect operation of the brake pedal switch.	Replace the brake pedal switch. **Op. 5550D10**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the brake pedal switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of a short circuit to earth in the wiring between brake pedal switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuit to earth	Restore insulation to earth.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of a short circuit to Vbatt in the wiring between brake pedal switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 5	Presence of short circuit to Vbatt.	Restore insulation to + battery
5	COMPONENT CONCERNED	BRAKE SWITCH POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Check that the brake switch is in the correct position.	Go to Step 6	Incorrect positioning of the brake pedal switch	Repositioning of the brake pedal switch in its correct position.
6	COMPONENT CONCERNED	BRAKE SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Connect the diagnosis equipment to the powertrain control module to check the correct brake pedal	End of diagnosis	Incorrect operation of the brake pedal switch.	Replace the brake pedal switch. **Op. 5550D10**

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		switch operation.			

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN BRAKE SWITCH AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the brake switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SWITCH AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuit to earth in the wiring between brake switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuit to earth	Restore insulation to earth.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuit to Vbatt in the wiring between brake switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 5	Presence of short circuit to Vbatt.	Restore insulation to + battery
5	COMPONENT CONCERNED	BRAKE SWITCH POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE SWITCH	Check that the brake switch is in the correct position.	Go to Step 6	Incorrect positioning of the brake switch	Repositioning of the brake switch in its correct position.
6	COMPONENT CONCERNED	BRAKE SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE SWITCH	Check that the switch is working properly using the Active Diagnosis of the diagnosis equipment on the	End of diagnosis	Switch not working correctly	Replace the brake switch. **Op. 5550D10**

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		powertrain control module.			

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the brake pedal switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of a short circuit to earth in the wiring between brake pedal switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Presence of short circuit to earth	Restore insulation to earth.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN BRAKE PEDAL SWITCH AND POWERTRAIN CONTROL MODULE	Check for the presence of a short circuit to Vbatt in the wiring between brake pedal switch and powertrain control module. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 5	Presence of short circuit to Vbatt.	Restore insulation to + battery
5	COMPONENT CONCERNED	BRAKE SWITCH POSITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Check that the brake pedal switch is in the correct position.	Go to Step 6	Incorrect positioning of the brake pedal switch	Repositioning of the brake pedal switch in its correct position.
6	COMPONENT CONCERNED	BRAKE SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BRAKE PEDAL SWITCH	Connect the diagnosis equipment to the powertrain control module and use the active diagnosis	End of diagnosis	Switch not working correctly	Replace the brake pedal switch.

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		function to check the correct brake pedal switch operation.			**Op. 5550D10**

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	INTAKE MANIFOLD	Check for any seepage in the intake manifold	Go to Step 2	Seepage inside the intake manifold	Restore correct operation
2	COMPONENT CONCERNED	THROTTLE BODY CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check the condition of the throttle body (fouling, obstructions of the plate)	Go to Step 3	Throttle body fouled	Restore the correct operation of the throttle body
3	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Connect the diagnosis equipment and carry out the "Motorised throttle" active diagnosis to check whether the throttle body works properly.	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN INTAKE MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	INTAKE MANIFOLD	Check for any seepage in the intake manifold	Go to Step 2	Seepage inside the intake manifold	Restore correct operation
2	COMPONENT CONCERNED	THROTTLE BODY CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check the condition of the throttle body (fouling, obstructions of the plate)	Go to Step 3	Throttle body fouled	Restore the correct operation of the throttle body
3	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Connect the diagnosis equipment and carry out the "Motorised throttle" active diagnosis to check whether the throttle body works properly.	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN PRESSURE SWITCH AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the oil pressure switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN OIL SWITCH AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN OIL SWITCH AND POWERTRAIN CONTROL MODULE	Check the condition of the wiring insulation (short circuit to Vbatt).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	OIL PRESSURE SWITCH	Check that the oil pressure switch is working properly	End of diagnosis	The oil pressure switch is not working properly	Replace the oil pressure switch **Op. 1084A40 ENGINE OIL LEVEL SENSOR - R.R.**

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E6021 COMPRESSOR ENGAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check the condition of the wiring insulation (short circuit to Vbatt). See E6021 COMPRESSOR ENGAGEMENT	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR CONDITIONING PRESSURE SENSOR	Check that the air conditioning pressure sensor is working properly by carrying out the test See Test 5040BC CHECK ON CLIMATE CONTROL COMPRESSOR ACTIVATION/DEACTIVATION FROM LINEAR SENSOR	End of diagnosis	The air conditioning pressure sensor is not working properly	Replace the air conditioning pressure sensor Op. 5040B20 AIR CONDITIONING LINEAR PRESSURE TRANSDUCER - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	SENSOR AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity See E6021 COMPRESSOR ENGAGEMENT	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN SENSOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuit to earth in the wiring between pressure sensor and powertrain control module. See E6021 COMPRESSOR ENGAGEMENT	Go to Step 4	Presence of short circuit to earth	Restore insulation to earth.
4	COMPONENT CONCERNED	SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR CONDITIONING PRESSURE SENSOR	Check that the air conditioning pressure sensor is working properly by carrying out the test See Test 5040BC CHECK ON CLIMATE CONTROL COMPRESSOR ACTIVATION/DEACTIVATION FROM LINEAR SENSOR	End of diagnosis	The air conditioning pressure sensor is not working properly	Replace the air conditioning pressure sensor Op. 5040B20 AIR CONDITIONING LINEAR PRESSURE TRANSDUCER - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR BATTERY, ALTERNATOR AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the battery, at the alternator and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY WIRING	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5010 STARTING AND RECHARING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	BATTERY CHARGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 4	Incorrect operation of battery	Recharge/replace the battery.
4	COMPONENT CONCERNED	ALTERNATOR CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ALTERNATOR	Check that the alternator is operating correctly by carrying out the test **See Test 5530AB**	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR BATTERY, ALTERNATOR AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the battery, at the alternator and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY WIRING	Check for breaks in the wiring continuity caused by oxidised or corroded terminals See E5010 STARTING AND RECHARING	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	BATTERY CHARGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 4	Incorrect operation of battery	Recharge/replace the battery.
4	COMPONENT CONCERNED	ALTERNATOR CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ALTERNATOR	Check that the alternator is operating correctly by carrying out the test **See Test 5530AB**	End of diagnosis	Alternator not working correctly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR CRUISE CONTROL AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the Cruise control lever and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL WIRING	Check for breaks in the wiring continuity for the Cruise Control stalk caused by oxidised or corroded terminals See E5060 CRUISE CONTROL	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	CRUISE CONTROL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL	Check that the Cruise control is operating correctly.	Go to Step 4	The Cruise control is not working properly	Replace the steering column stalk. Op. 5550A10 STALK UNIT ASSEMBLY - R+R
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR CRUISE CONTROL AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the Cruise control lever and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL WIRING	Check for breaks in the wiring continuity for the Cruise Control stalk caused by oxidised or corroded terminals See E5060 CRUISE CONTROL	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	CRUISE CONTROL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL	Check that the Cruise control is operating correctly.	Go to Step 4	The Cruise control is not working properly	Replace the steering column stalk. Op. 5550A10 STALK UNIT ASSEMBLY - R+R
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS FOR CRUISE CONTROL AND POWERTRAIN CONTROL MODULE	Check for loose electrical connections at the Cruise control lever and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL WIRING	Check for breaks in the wiring continuity for the Cruise Control stalk caused by oxidised or corroded terminals See E5060 CRUISE CONTROL	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	CRUISE CONTROL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL	Check that the Cruise control is operating correctly.	Go to Step 4	The Cruise control is not working properly	Replace the steering column stalk. Op. 5550A10 STALK UNIT ASSEMBLY - R+R
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the thermostat and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT WIRING	Check for breaks in the thermostat wiring	End of diagnosis	Presence of breaks on the thermostat wiring	Restore the continuity for the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the thermostat and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT WIRING	Check for the presence of short circuits to earth on the thermostat wiring	End of diagnosis	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the thermostat and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT WIRING	Check for breaks in continuity on the thermostat wiring	Go to Step 3	Presence of breaks in the wiring	Restore the continuity for the wiring
3	COMPONENT CONCERNED	THERMOSTAT WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT WIRING	Check for the presence of short circuits to battery on the heating coil wiring	Go to Step 4	Presence of a short circuit to battery on the wiring	Restore the correct wiring insulation to battery.
4	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EARTH CONNECTIONS	Check the earth connection condition	Go to Step 5	Incorrect earth connections	Restore the correct earth connections
5	COMPONENT CONCERNED	CORRECT SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE WATER HEATING COIL	Check the correct engine water heating coil operation	Go to Step 6	Incorrect operation of the engine water heating coil	Replace the thermostat Op. 1088C40 THERMOSTAT- R + R
	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of the powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THERMOSTAT AND POWERTRAIN CONTROL MODULE CONNECTIONS	Check for loose electrical connections at the thermostat and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	HEATING THERMOSTAT WIRING	Check for the presence of short circuits to battery on the heating thermostat wiring	End of diagnosis	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY VOLTAGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 2	Battery voltage too low when starting	Recharge/replace the battery.
2	COMPONENT CONCERNED	STARTING RELAY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	STARTING RELAY	Check the operation of the starting relay T14 on the engine compartment junction unit. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 3	Incorrect operation	Replace the starting relay.
3	COMPONENT CONCERNED	RELAY POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	STARTING RELAY	Check the supply to the starting relay T09 on the engine compartment control unit. See E5030 PETROL ENGINES ELECTRONIC MANAGEMENT	Go to Step 4	Relay power supply not correct	Restore the correct power supply.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	RELAY WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for the presence of short circuits to earth on the T09 relay wiring	Go to Step 2	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth
2	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay T09 is working properly.	End of diagnosis	The main relay is not working correctly	Replace the main relay.

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			Test results		
1	COMPONENT CONCERNED	RELAY WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for the presence of short circuits to battery on the T09 relay wiring	Go to Step 2	Presence of short circuits to battery on the wiring	Restore the correct insulation for the wiring
2	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay T09 is working properly.	End of diagnosis	The main relay is not working correctly	Replace the main relay.

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			Test results		
1	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check the wiring continuity on the T09 relay	Go to Step 2	Presence of breaks in the wiring	Restore the correct continuity for the wiring
2	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay T09 is working properly.	End of diagnosis	The main relay is not working correctly	Replace the main relay.

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			Test results		
1	COMPONENT CONCERNED	ALTERNATOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on alternator	Check for the presence of loose connections on the alternator and the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	ALTERNATOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Alternator wiring	Check the continuity of the alternator wiring	Go to Step 3	Faults in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	ALTERNATOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Alternator	Check that the alternator is operating correctly by carrying out the test See Test 5530AA CHECK ALTERNATOR TERMINAL "D+"	End of diagnosis	The alternator is not working properly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ALTERNATOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on alternator	Check for the presence of loose connections on the alternator and the powertrain control module	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	ALTERNATOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Alternator wiring	Check the continuity of the alternator wiring	Go to Step 3	Faults in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	ALTERNATOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Alternator	Check that the alternator is operating correctly by carrying out the test See Test 5530AA CHECK ALTERNATOR TERMINAL "D+"	End of diagnosis	The alternator is not working properly	Replace the alternator Op. 5530A10 ALTERNATOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for loose electrical connections at the throttle body connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the continuity of the earth connections on the wiring for the throttle body	Go to Step 5	Incorrect earth connections	Restore the correct earth connections.
5	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Connect the diagnosis equipment to the powertrain control module and check that the throttle body is working correctly in active diagnosis	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for loose electrical connections at the throttle body connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check the continuity of the earth connections on the wiring for the throttle body	Go to Step 5	Incorrect earth connections	Restore the correct earth connections.
5	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Connect the diagnosis equipment to the powertrain control module and check that the throttle body is working correctly in active diagnosis	End of diagnosis	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for loose electrical connections at the throttle body connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the earth connection condition (check correct tightening, oxidation or incorrect paintings)	Go to Step 5	Fault on earth connections	Restore the correct earth connections
5	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Connect the diagnosis equipment to the powertrain control module and check that the throttle body is working correctly in active diagnosis	Go to Step 6	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on throttle body	Check for loose electrical connections at the throttle body connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check for breaks in the wiring continuity for the throttle body	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body wiring	Check that the throttle body wiring insulation is integer	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the earth connection condition (check correct tightening, oxidation or incorrect paintings)	Go to Step 5	Fault on earth connections	Restore the correct earth connections
5	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Connect the diagnosis equipment to the powertrain control module and check that the throttle body is working correctly in active diagnosis	Go to Step 6	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	A/C compressor relay	Connect the diagnosis equipment to the powertrain control module and check, in active diagnosis, that the air conditioning control relay is working correctly	End of diagnosis	Incorrect operation of the air conditioning control relay	Do not perform any operations and wait until the relay temperature returns to its normal operating conditions.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay wiring	Check for the presence of short circuits to earth on the relay wiring	Go to Step 3	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	A/C compressor relay	Connect the diagnosis equipment to the powertrain control module and check, in active diagnosis, that the air conditioning relay control is working correctly	End of diagnosis	Incorrect operation of the air conditioning relay control	Replace the air conditioning control relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay wiring	Check for the presence of short circuits to battery on the relay wiring	Go to Step 3	Presence of short circuits to battery on the relay wiring	Restore the correct wiring insulation to battery.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	A/C compressor relay	Connect the diagnosis equipment to the powertrain control module and check, in active diagnosis, that the air conditioning relay control is working correctly	End of diagnosis	Incorrect operation of the air conditioning control relay	Replace the air conditioning compressor relay.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Air conditioning compressor relay wiring	Check for breaks in the relay wiring continuity	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	A/C compressor relay	Connect the diagnosis equipment to the powertrain control module and check, in active diagnosis, that the air conditioning control relay is working correctly	End of diagnosis	Incorrect operation of the air conditioning control relay	Replace the air conditioning compressor relay.

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643 - ALFA 4C 1750 Turbo Benzina Engine Control Module (ECM) internal temperature sensor - Circuit short to ground P0666-11

			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Engine Control Module (ECM) internal temperature sensor - Circuit short to battery P0666-12

			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Engine Control Module (ECM) internal temperature sensor - Signal plausibility failure P0667-64

			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose connections for the main relay	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for breaks in the wiring continuity.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	MAIN RELAY WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay wiring	Check for the presence of a short circuit to earth on the main relay wiring	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	MAIN RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay is working properly	Go to Step 5	Relay not working properly	Replace the main relay
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose connections for the main relay	Restore the correct connections.
2	COMPONENT CONCERNED	MAIN RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay is working properly	End of diagnosis	Relay not working properly	Replace the main relay

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay connections	Check for loose electrical connections at the relay and at the powertrain control module.	Go to Step 2	Presence of loose connections for the main relay	Restore the correct connections.
2	COMPONENT CONCERNED	MAIN RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Main relay	Check that the main relay is working properly	End of diagnosis	Relay not working properly	Replace the main relay

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			Test results		
1	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check for the presence of errors in the robotised gearbox control unit using the diagnosis equipment.	End of diagnosis	Errors present in the robotised gearbox control unit	Continue as instructed by the diagnosis equipment

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643 - ALFA 4C 1750 Turbo Benzina Torque engine request by Transmission Control Module - Signal has too many transitions/events P0700-66

			Test results		
1	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check for the presence of errors in the robotised gearbox control unit using the diagnosis equipment.	End of diagnosis	Errors present in the robotised gearbox control unit	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check for the presence of errors in the robotised gearbox control unit using the diagnosis equipment.	End of diagnosis	Errors present in the robotised gearbox control unit	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check for the presence of errors in the robotised gearbox control unit using the diagnosis equipment.	End of diagnosis	Errors present in the robotised gearbox control unit	Continue as instructed by the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on clutch switch and powertrain control module	Check for loose electrical connections at the clutch switch and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Clutch switch wiring	Check for breaks in the clutch switch continuity.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Clutch switch wiring	Check the clutch switch wiring insulation condition	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CLUTCH SWITCH CORRECT POSITIONING/FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Clutch switch	Check that the clutch switch is correctly positioned/fitted.	Go to Step 5	Incorrect positioning/fitting of the clutch switch	Restore the correct fitting of the clutch switch
5	COMPONENT CONCERNED	CLUTCH SWITCH OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Clutch switch	Check that the clutch switch is working properly	Go to Step 6	Incorrect operation of the clutch switch	Replace the clutch switch **Op. 1056B78 SWITCH ON CLUTCH PEDAL - R.R (PETROL ENGINES)**
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module not working properly.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit and powertrain control module connections	Check for loose electrical connections at the robotised gearbox control unit and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit wiring	Check for breaks in the robotised gearbox control unit wiring continuity.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check that the robotised gearbox control unit is working correctly	Go to Step 4	The robotised gearbox control unit is not working correctly	Replace the robotised gearbox control unit Op. 2128E01 ELECTRONIC CONTROL UNIT (TCU) - R.R.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module not working properly.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 1 - Circuit voltage out of range P1011-1C

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on injector	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 4	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 2 - Circuit voltage out of range P1012-1C

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on injector	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 4	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 3 - Circuit voltage out of range P1013-1C

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on injector	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 4	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 4 - Circuit voltage out of range P1014-1C

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on injector	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 4	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 1 - Signal calculation failure P1021-61

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 1 - Signal plausibility failure P1021-64

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 2 - Signal calculation failure P1022-61

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 2 - Signal plausibility failure P1022-64

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 3 - Signal calculation failure P1023-61

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 3 - Signal plausibility failure P1023-64

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 4 - Signal calculation failure P1024-61

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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					IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Control unit faulty Controlled Valve Operation (CVO) on Cylinder 4 - Signal plausibility failure P1024-64

			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector and powertrain control module connections	Check for loose electrical connections at the injector connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Wiring between injector and powertrain control module	Check the condition of the wiring insulation (short circuit to earth).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	CORRECT INJECTOR POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector power supply	Check that the injector is receiving the correct power supply.	Go to Step 5	Incorrect injector power supply	Restore the correct power supply for the injector
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Earth connections	Check the condition of the earth connections	Go to Step 6	Incorrect operation of earth connections	Restore the correct earth connections.
6	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector	check that the injector is working correctly	Go to Step 7	Injector not working properly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on upstream oxygen sensor	Check for loose electrical connections at the upstream sensor connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check the condition of the wiring insulation (short circuit among leads).	Go to Step 4	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 5	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on downstream oxygen sensor	Check for loose electrical connections at the downstream sensor connector and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections.	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals.	Go to Step 3	Breaks in the wiring continuity.	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor wiring	Check the condition of the wiring insulation (short circuit between conductors).	Go to Step 4	Presence of faults in the wiring insulation.	Restore the correct insulation of the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Downstream oxygen sensor	Check that the downstream oxygen sensor is working properly	Go to Step 5	Downstream oxygen sensor not working correctly.	Replace the downstream oxygen sensor Op. 1080B95 REAR LAMBDA SENSOR TO CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold.	Restore correct operation
2	COMPONENT CONCERNED	PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check the correct operation of the intake pressure sensor	Go to Step 3	Pressure sensor not working properly.	Replace the pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
3	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing and the correct fitting.	Go to Step 4	Upstream sensor fouled, contaminated or not correctly installed.	Clean the upstream sensor or fit it correctly.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 5	Incorrect operation of the upstream oxygen sensor.	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Multiplicative adaptation correction of lambda control - Signal amplitude > maximum P1172-22

			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold.	Restore correct operation
2	COMPONENT CONCERNED	PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check the correct operation of the intake pressure sensor	Go to Step 3	Pressure sensor not working properly.	Replace the pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
3	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing and the correct fitting.	Go to Step 4	Upstream sensor fouled, contaminated or not correctly installed.	Clean the upstream sensor or fit it correctly.
4	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 5	Incorrect operation of the upstream oxygen sensor.	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold	Restore correct operation
2	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing. Also check that it is correctly fitted.	Go to Step 3	Upstream sensor fouled, contaminated or not correctly installed	Clean the upstream sensor or fit it correctly.
3	COMPONENT CONCERNED	INJECTOR WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct continuity of the injector wiring	Go to Step 4	Incorrect injector wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injectors	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis.	Go to Step 5	Injector not working correctly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 6	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module **Op. 1056B82**

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			Test results		
1	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 2	Seepage inside the exhaust manifold	Restore correct operation
2	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing. Also check that it is correctly fitted.	Go to Step 3	Upstream sensor fouled, contaminated or not correctly installed	Clean the upstream sensor or fit it correctly.
3	COMPONENT CONCERNED	INJECTOR WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector wiring	Check the correct continuity of the injector wiring	Go to Step 4	Incorrect injector wiring continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	INJECTOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injectors	Connect the diagnosis equipment to the powertrain control module and check that the injector is working correctly in active diagnosis.	Go to Step 5	Injector not working correctly	Replace the injector Op. 1056F70 INJECTOR (ONE) R.R. WITH FUEL MANIFOLD PIPE REMOVED INCLUDES GASKET REPLACEMENT
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 6	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module **Op. 1056B82**

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			Test results		
1	COMPONENT CONCERNED	NEUTRAL SIGNAL LEARNING PROCEDURE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Gear lever position	Connect the diagnosis equipment to the powertrain control module, enter "various functions" and check whether the "neutral signal learning" procedure has been carried out	End of diagnosis	Neutral signal learning procedure not carried out	Carry out the neutral signal learning procedure with the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	Performance limit procedure check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment to the powertrain control module, enter configuration and check whether the "performance limit" procedure has been carried out (this type of error only occurs at the first car delivery to dealership)	End of diagnosis	"Performance limit" procedure not carried out	Carry out the "performance limit" procedure with the diagnosis equipment

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			Test results		
1	COMPONENT CONCERNED	CHECK RPM SENSOR OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine rpm sensor	Check that the engine rpm sensor is working correctly.	Go to Step 2	Rpm sensor not working properly	Replace the rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R
2	COMPONENT CONCERNED	TIMING SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Knock sensor on timing side	Check that the knock sensor is working properly, on timing side.	Go to Step 3	The knock sensor is not working properly	Replace the knock sensor on timing side. Op. 5510C48 TIMING SIDE DETONATION SENSOR - R+R
3	COMPONENT CONCERNED	FLYWHEEL SIDE KNOCK SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Flywheel side knock sensor	Check that the knock sensor is working properly, on flywheel side.	Go to Step 4	The knock sensor is not working properly	Replace the knock sensor on flywheel side. Op. 5510C46 FLYWHEEL SIDE DETONATION SENSOR - R+R
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	THROTTLE BODY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Throttle body	Check that the throttle body is working properly	Go to Step 2	Throttle body not working correctly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
2	COMPONENT CONCERNED	EXHAUST SYSTEM FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust system	Check that the exhaust system is correctly fitted	Go to Step 3	Incorrect exhaust system fitting	Refit the exhaust system and restore its correct operation
3	COMPONENT CONCERNED	INTAKE SYSTEM FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake system	Check that the intake system is correctly fitted	Go to Step 4	Incorrect intake system fitting	Refit the intake system and restore its correct operation
4	COMPONENT CONCERNED	AXLES TIMING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Axles timing	Check the correct timing of the axles.	End of diagnosis	Incorrect axles timing.	Restore the correct timing.

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			Test results		
1	COMPONENT CONCERNED	STARTING RELAY OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Starting relay	Check that the starting relay is working properly	Go to Step 2	Incorrect operation of the relay	Replace the starting relay
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	Go to Step 3	Incorrect operation of the powertrain control module.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
3	COMPONENT CONCERNED	BODY COMPUTER CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 4	Incorrect Body Computer operation.	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
4	COMPONENT CONCERNED	GEARBOX CONTROL UNIT CORRECT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check that the robotised gearbox control unit is working correctly	End of diagnosis	Incorrect operation of the robotised gearbox control unit.	Replace the robotised gearbox control unit Op. 2128E01 ELECTRONIC CONTROL UNIT (TCU) - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Plausibility monitoring between two engine oil pressure switch (inverted mounting) - Signal compare failure P1543-62

			Test results		
1	COMPONENT CONCERNED	SENSOR FITTING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Engine oil pressure switches	Check whether the oil pressure switches were installed in reverse order	End of diagnosis	Reverse installation of the two engine oil pressure switches.	Restore the correct installation reversing the order of the switches

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 equipment	Go to Step 2	Incorrect operation of battery	Recharge/replace the battery.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Upstream lambda probe circuit control - Signal bias level out of range/zero adjustment failure P1607-28

			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT UPDATE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is correctly updated.	Go to Step 2	Powertrain control module software incorrectly updated.	Update the powertrain control module.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT UPDATE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is correctly updated.	Go to Step 2	Powertrain control module software incorrectly updated.	Update the powertrain control module.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT UPDATE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is correctly updated.	Go to Step 2	Powertrain control module software incorrectly updated.	Update the powertrain control module using the correct software
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONTROL UNIT UPDATE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is correctly updated.	Go to Step 2	Powertrain control module software incorrectly updated.	Update the powertrain control module using the correct software.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	Go to Step 3	Powertrain control module faulty.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
3	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working properly.	Go to Step 4	Body Computer not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check that the ABS control unit is working properly.	End of diagnosis	The ABS control unit is not working correctly	Replace the ABS control unit Op. 3340A12 ABS HYDRAULIC AND ELECTRONIC CONTROL UNIT - R.R.

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			Test results		
1	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 2	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 2	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE STATUS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 multimeter	Go to Step 2	Incorrect charge	Recharge or, if necessary, replace the battery
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for loose connections at the throttle valve actuator and at the powertrain control module.	Go to Step 3	Presence of loose electrical connections	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check the correct insulation of the throttle valve actuator wiring.	Go to Step 5	Presence of short circuits on the wiring	Restore the correct insulation for the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EARTH CONNECTIONS	Check the correct operation of the earth connections; in particular, check their incorrect tightening, oxidation and painting.	Go to Step 6	Faults on earth connections	Restore the correct earth connections
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WATER TEMPERATURE SENSOR	Check that the water temperature sensor is working properly	Go to Step 7	Water temperature sensor not working correctly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR -

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					R.R.
7	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR TEMPERATURE SENSOR	Check whether the air temperature sensor is working correctly	Go to Step 8	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
8	COMPONENT CONCERNED	ENGINE RPM SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE RPM SENSOR	Check that the engine rpm sensor is working properly	Go to Step 9	Engine rpm sensor not working properly	Replace the engine rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R
9	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ACCELERATOR PEDAL	Check that the accelerator pedal potentiometer is working properly	Go to Step 10	Accelerator pedal potentiometer not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R
10	COMPONENT CONCERNED	THROTTLE VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check that the throttle body is working properly.	Go to Step 11	Relay not working properly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
11	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	End of diagnosis	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for loose connections at the throttle valve actuator and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	THROTTLE VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to earth on the throttle valve actuator wiring.	Go to Step 4	Presence of short circuits to earth on the wiring	Restore the correct wiring insulation to earth.
4	COMPONENT CONCERNED	THROTTLE VALVE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for the presence of short circuits to battery on the throttle valve actuator wiring.	End of diagnosis	Presence of short circuits to battery on the wiring	Restore the correct wiring insulation to battery.

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE STATUS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 multimeter	Go to Step 2	Incorrect charge	Recharge or, if necessary, replace the battery
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for loose connections at the throttle valve actuator and at the powertrain control module.	Go to Step 3	Presence of loose electrical connections	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check the correct insulation of the throttle valve actuator wiring.	Go to Step 5	Presence of short circuits on the wiring	Restore the correct insulation for the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EARTH CONNECTIONS	Check the correct operation of the earth connections; in particular, check their incorrect tightening, oxidation and painting.	Go to Step 6	Faults on earth connections	Restore the correct earth connections
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WATER TEMPERATURE SENSOR	Check that the water temperature sensor is working properly	Go to Step 7	Water temperature sensor not working correctly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR -

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					R.R.
7	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR TEMPERATURE SENSOR	Check whether the air temperature sensor is working correctly	Go to Step 8	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
8	COMPONENT CONCERNED	ENGINE RPM SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE RPM SENSOR	Check that the engine rpm sensor is working properly	Go to Step 9	Engine rpm sensor not working properly	Replace the engine rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R
9	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ACCELERATOR PEDAL	Check that the accelerator pedal potentiometer is working properly	Go to Step 10	Accelerator pedal potentiometer not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R
10	COMPONENT CONCERNED	THROTTLE VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check that the throttle body is working properly.	Go to Step 11	Relay not working properly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
11	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE STATUS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 multimeter	Go to Step 2	Incorrect charge	Recharge or, if necessary, replace the battery
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for loose connections at the throttle valve actuator and at the powertrain control module.	Go to Step 3	Presence of loose electrical connections	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check the correct insulation of the throttle valve actuator wiring.	Go to Step 5	Presence of short circuits on the wiring	Restore the correct insulation for the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EARTH CONNECTIONS	Check the correct operation of the earth connections; in particular, check their incorrect tightening, oxidation and painting.	Go to Step 6	Faults on earth connections	Restore the correct earth connections
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WATER TEMPERATURE SENSOR	Check that the water temperature sensor is working properly	Go to Step 7	Water temperature sensor not working correctly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR -

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					R.R.
7	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR TEMPERATURE SENSOR	Check whether the air temperature sensor is working correctly	Go to Step 8	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
8	COMPONENT CONCERNED	ENGINE RPM SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE RPM SENSOR	Check that the engine rpm sensor is working properly	Go to Step 9	Engine rpm sensor not working properly	Replace the engine rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R
9	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ACCELERATOR PEDAL	Check that the accelerator pedal potentiometer is working properly	Go to Step 10	Accelerator pedal potentiometer not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R
10	COMPONENT CONCERNED	THROTTLE VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check that the throttle body is working properly.	Go to Step 11	Relay not working properly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
11	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BATTERY CHARGE STATUS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BATTERY	Check the battery charge using the MIDTRONICS no. 2000037000 multimeter	Go to Step 2	Incorrect charge	Recharge or, if necessary, replace the battery
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for loose connections at the throttle valve actuator and at the powertrain control module.	Go to Step 3	Presence of loose electrical connections	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WIRING BETWEEN THROTTLE VALVE ACTUATOR AND POWERTRAIN CONTROL MODULE	Check the correct insulation of the throttle valve actuator wiring.	Go to Step 5	Presence of short circuits on the wiring	Restore the correct insulation for the wiring.
5	COMPONENT CONCERNED	EARTH CONNECTION CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	EARTH CONNECTIONS	Check the correct operation of the earth connections; in particular, check their incorrect tightening, oxidation and painting.	Go to Step 6	Faults on earth connections	Restore the correct earth connections
6	COMPONENT CONCERNED	WATER TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	WATER TEMPERATURE SENSOR	Check that the water temperature sensor is working properly	Go to Step 7	Water temperature sensor not working correctly	Replace the water temperature sensor Op. 1056F50 COOLANT TEMPERATURE SENSOR -

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					R.R.
7	COMPONENT CONCERNED	AIR TEMPERATURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	AIR TEMPERATURE SENSOR	Check whether the air temperature sensor is working correctly	Go to Step 8	Air temperature sensor not working properly	Replace the air temperature sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
8	COMPONENT CONCERNED	ENGINE RPM SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ENGINE RPM SENSOR	Check that the engine rpm sensor is working properly	Go to Step 9	Engine rpm sensor not working properly	Replace the engine rpm sensor Op. 5510C26 ENGINE RPM SENSOR - R+R
9	COMPONENT CONCERNED	ACCELERATOR PEDAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ACCELERATOR PEDAL	Check that the accelerator pedal potentiometer is working properly	Go to Step 10	Accelerator pedal potentiometer not working properly	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R
10	COMPONENT CONCERNED	THROTTLE VALVE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	THROTTLE BODY	Check that the throttle body is working properly.	Go to Step 11	Relay not working properly	Replace the throttle body Op. 1056F17 THROTTLE BODY WITH DVL - R.R.
11	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working properly.	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN ACCELERATOR PEDAL POTENTIOMETER AND POWERTRAIN CONTROL MODULE	Check for loose connections at the accelerator pedal potentiometer and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS BETWEEN ACCELERATOR PEDAL POTENTIOMETER AND POWERTRAIN CONTROL MODULE	Check for breaks in the wiring continuity	Go to Step 3	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
3	COMPONENT CONCERNED	ACCELERATOR PEDAL POTENTIOMETER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ACCELERATOR PEDAL POTENTIOMETER	Connect the diagnosis equipment to the powertrain control module to check the correct operation of the accelerator pedal potentiometers.	End of diagnosis	Incorrect operation of the potentiometers	Replace the accelerator pedal Op. 1068A20 ACCELERATOR PEDAL WITH BUILT-IN POTENTIOMETER - R.R

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment, access the powertrain control module and display the “Atmospheric pressure” parameter, checking whether the value is correct.	End of diagnosis	Incorrect value of the atmospheric pressure parameter	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment, access the powertrain control module and display the “Atmospheric pressure” parameter, checking whether the value is correct.	End of diagnosis	Incorrect value of the atmospheric pressure parameter	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR READING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Atmospheric pressure sensor	Check the pressure read by the atmospheric pressure sensor by connecting the diagnosis equipment to the powertrain control module	End of diagnosis	Incorrect atmospheric pressure value	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment, access the powertrain control module and display the “Atmospheric pressure” parameter, checking whether the value is correct.	End of diagnosis	Incorrect value of the atmospheric pressure parameter	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ATMOSPHERIC PRESSURE SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Connect the diagnosis equipment, access the powertrain control module and display the “Atmospheric pressure” parameter, checking whether the value is correct.	End of diagnosis	Incorrect value of the atmospheric pressure parameter	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on upstream oxygen sensor	Check for loose electrical connections for the upstream sensor connector	Go to Step 2	Presence of loose connections of the upstream oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	OXYGEN SENSOR WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	OXYGEN SENSOR CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 6	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on upstream oxygen sensor	Check for loose electrical connections for the sensor connector	Go to Step 2	Presence of loose connections of the oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 6	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	INTAKE MANIFOLD CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake manifold	Check the conditions of the intake manifold	End of diagnosis	Damaged intake manifold	Replace the intake manifold Op. 1072B50 AIR CHAMBER - R.R.

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			Test results		
1	COMPONENT CONCERNED	FUEL PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check that the fuel pressure sensor is working properly	End of diagnosis	Incorrect operation of the fuel pressure sensor	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor and powertrain control module connections	Check for loose connections at the fuel pressure sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	FUEL PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check that the fuel pressure sensor is working properly	Go to Step 3	Incorrect operation of the fuel pressure sensor	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.
3	COMPONENT CONCERNED	HIGH PRESSURE CIRCUIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure circuit	Check that the high pressure circuit is working properly and that there are no leaks or obstructions	Go to Step 4	Faults on the injector high pressure circuit	Restore the correct operation of the injector high pressure circuit Op. 1056F76 HIGH PRESSURE PIPE FROM PRESSURE PUMP TO SINGLE FUEL MANIFOLD PIPE - R.R.
4	COMPONENT CONCERNED	HIGH PRESSURE PUMP OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure pump	Check that the high pressure pump is working properly	End of diagnosis	High pressure pump not working correctly	Replace the high pressure pump Op. 1056F72 PRESSURE PUMP - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor and powertrain control module connections	Check for loose connections at the fuel pressure sensor and at the powertrain control module.	Go to Step 2	Presence of loose electrical connections	Restore the correct connections.
2	COMPONENT CONCERNED	FUEL PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel pressure sensor	Check that the fuel pressure sensor is working properly	Go to Step 3	Incorrect operation of the fuel pressure sensor	Replace the fuel pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.
3	COMPONENT CONCERNED	PRESSURE CIRCUIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Injector pressure circuit	Check that the pressure circuit is working properly and that there are no leaks or obstructions	Go to Step 4	Faults on the injector pressure circuit	Restore the correct injector pressure circuit Op. 1056F76 HIGH PRESSURE PIPE FROM PRESSURE PUMP TO SINGLE FUEL MANIFOLD PIPE - R.R.
4	COMPONENT CONCERNED	HIGH PRESSURE PUMP OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure pump	Check that the high pressure pump is working properly	End of diagnosis	High pressure pump not working correctly	Replace the high pressure pump Op. 1056F72 PRESSURE PUMP - R.R.

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			Test results		
1	COMPONENT CONCERNED	PRESENCE OF LEAKS IN THE CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Low pressure circuit supply	Check for the presence of fuel leaks in the high pressure circuit	Go to Step 2	Presence of leaks in the supply circuit	Restore circuit to correct operation
2	COMPONENT CONCERNED	CORRECT HIGH PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure sensor	Check that the high pressure sensor on the rail is working properly	Go to Step 3	Sensor not working properly	Replace the high pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.
3	COMPONENT CONCERNED	CORRECT HIGH PRESSURE PUMP OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure pump	Check that the fuel high pressure pump is working properly.	End of diagnosis	Incorrect operation of the fuel high pressure pump	Replace the high pressure pump Op. 1056F72 PRESSURE PUMP - R.R.

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			Test results		
1	COMPONENT CONCERNED	PRESENCE OF LEAKS IN THE CIRCUIT CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Low pressure circuit supply	Check for the presence of fuel leaks in the high pressure circuit	Go to Step 2	Presence of leaks in the supply circuit	Restore circuit to correct operation
2	COMPONENT CONCERNED	CORRECT HIGH PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure sensor	Check that the high pressure sensor on the rail is working properly	Go to Step 3	Sensor not working properly	Replace the high pressure sensor Op. 1056F54 FUEL PRESSURE SENSOR - R.R.
3	COMPONENT CONCERNED	CORRECT HIGH PRESSURE PUMP OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	High pressure pump	Check that the fuel high pressure pump is working properly.	End of diagnosis	Incorrect operation of the fuel high pressure pump	Replace the high pressure pump Op. 1056F72 PRESSURE PUMP - R.R.

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			Test results		
1	COMPONENT CONCERNED	USER'S DRIVING STYLE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Driving style	Check the driving style asking the Customer if they use the car with the brake pedal and the accelerator pedal simultaneously pressed.	End of diagnosis	Incorrect driving style	Instruct the Customer about a correct driving style.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on upstream oxygen sensor	Check for loose electrical connections for the upstream sensor connector.	Go to Step 2	Presence of loose connections of the upstream oxygen sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose electrical connections to the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections.
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check for breaks in the wiring continuity caused by oxidised or corroded terminals	Go to Step 4	Breaks in the continuity of the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	WIRING INSULATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor wiring	Check that the wiring insulation is integer	Go to Step 5	Presence of faults in the wiring insulation	Restore the correct insulation of the wiring.
5	COMPONENT CONCERNED	CHECK ON SEEPAGE IN EXHAUST MANIFOLD	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Exhaust manifold	Check for the presence of any seepage in the exhaust manifold.	Go to Step 6	Seepage inside the exhaust manifold	Restore the correct operation of the exhaust manifold.
6	COMPONENT CONCERNED	SENSOR CONDITION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check for the presence of any oil or oxidation on the sensitive element or damage to the upstream sensor casing.	Go to Step 7	Upstream sensor fouled, contaminated	Clean the upstream sensor from foreign bodies.
7	COMPONENT CONCERNED	OXYGEN SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Upstream oxygen sensor	Check that the upstream oxygen sensor is working properly	Go to Step 8	Upstream oxygen sensor not working properly	Replace the upstream oxygen sensor Op. 1080B94 FRONT LAMBDA SENSOR TO WITH CATALYTIC CONVERTER - R.R
		POWERTRAIN			

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8	COMPONENT CONCERNED	CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly.	End of diagnosis	Powertrain control module faulty	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the intake pressure sensor	Check the presence of loose electrical connections on the intake pressure sensor.	Go to Step 2	Presence of loose connections on the intake pressure sensor	Restore the correct connections.
2	COMPONENT CONCERNED	ELECTRICAL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for loose electrical connections on the powertrain control module	Go to Step 3	Presence of loose connections to the powertrain control module	Restore the correct connections
3	COMPONENT CONCERNED	WIRING CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for possible continuity breaks in the wiring for the intake pressure sensor	Go to Step 4	Presence of breaks in the wiring	Restore the correct continuity for the wiring.
4	COMPONENT CONCERNED	SHORT CIRCUITS TO EARTH CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor wiring	Check for the presence of short circuits to earth on the intake pressure sensor wiring	Go to Step 5	Presence of short circuits to earth on the intake pressure sensor wiring	Restore the correct insulation to earth on the intake pressure sensor wiring
5	COMPONENT CONCERNED	INTAKE PRESSURE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Intake pressure sensor	Check that the intake pressure sensor is working correctly	Go to Step 6	Intake pressure sensor not working properly	Replace the intake pressure sensor Op. 1056F57 INTAKE AIR PRESSURE/TEMPERATURE SENSOR - R.R.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of powertrain control module	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS ON THE POWERTRAIN CONTROL MODULE	Check for the presence of loose connections on the powertrain control module and the other CAN nodes	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CAN WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN WIRING	Check the continuity of the CAN wiring	Go to Step 3	Faults in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CAN WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN WIRING	Check the correct insulation of the CAN wiring	Go to Step 4	Wiring insulation not correct	Restore correct wiring insulation
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CONNECTIONS ON THE POWERTRAIN CONTROL MODULE	Check for the presence of loose connections on the powertrain control module and the other CAN nodes	Go to Step 2	Presence of loose connections	Restore the correct connections
2	COMPONENT CONCERNED	CAN WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN WIRING	Check the continuity of the CAN wiring	Go to Step 3	Faults in the continuity of the wiring	Restore the correct continuity for the wiring
3	COMPONENT CONCERNED	CAN WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN WIRING	Check the correct insulation of the CAN wiring	Go to Step 4	Wiring insulation not correct	Restore correct wiring insulation
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CRUISE CONTROL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN LINE WIRING BETWEEN POWERTRAIN CONTROL MODULE AND CRUISE CONTROL	Check that the CAN connections between the powertrain control module and the Cruise Control are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE CONNECTIONS	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	CRUISE CONTROL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL CONNECTIONS	Disconnect/reconnect the Body Computer connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE POWER SUPPLY	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	CRUISE CONTROL POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL POWER SUPPLY	Check that the Cruise Control power supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	Powertrain control module operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	Cruise Control operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	CRUISE CONTROL	Check that the Cruise Control is working properly	End of diagnosis	Incorrect operation of the Cruise Control	Replace the steering column stalk Op. 5550A10 STALK UNIT ASSEMBLY - R+R

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643 - ALFA 4C 1750 Turbo Benzina Invalid Data Received from Cruise Control Module - Value of signal protection calculation incorrect U0405-83

			Test results		
1	COMPONENT CONCERNED	BODY COMPUTER CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check for the presence of loose connections on the Body Computer	Go to Step 2	Loose Body Computer connections	Restore the correct connections for the Body Computer
2	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain Control Module	Check for loose Powertrain Control Module connections	Go to Step 3	Loose connections on the Powertrain Control Module	Restore the correct connections for the Powertrain Control Module
3	COMPONENT CONCERNED	CHECK USING DIAGNOSIS EQUIPMENT	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Connect the diagnosis equipment to the Body Computer control unit and check whether there are errors.	Go to Step 4	Presence of errors in the Body Computer control unit	Continue as instructed by the diagnosis equipment
4	COMPONENT CONCERNED	CAN LINE CONTINUITY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN	Check CAN line continuity between Body Computer control unit and Powertrain Control Module	End of diagnosis	Lack of continuity on the CAN line between the Powertrain Control Module and the Body Computer	Restore the correct continuity of the CAN line between the Powertrain Control Module and Body Computer

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			Test results		
1	COMPONENT CONCERNED	CRUISE CONTROL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN LINE WIRING BETWEEN POWERTRAIN CONTROL MODULE AND CRUISE CONTROL	Check that the CAN connections between the powertrain control module and the Cruise Control are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE CONNECTIONS	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	CRUISE CONTROL CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL CONNECTIONS	Disconnect/reconnect the Body Computer connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE POWER SUPPLY	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	CRUISE CONTROL POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CRUISE CONTROL POWER SUPPLY	Check that the Cruise Control power supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	CRUISE CONTROL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	CRUISE CONTROL	Check that the Cruise Control is working properly	End of diagnosis	Incorrect operation of the Cruise Control	Replace the steering column stalk Op. 5550A10 STALK UNIT ASSEMBLY - R+R

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			Test results		
1	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN LINE WIRING BETWEEN POWERTRAIN CONTROL MODULE AND BODY COMPUTER	Check that the CAN connections between powertrain control module and Body Computer are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE CONNECTIONS	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BODY COMPUTER CONNECTIONS	Disconnect/reconnect the Body Computer connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE POWER SUPPLY	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	BODY COMPUTER POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BODY COMPUTER POWER SUPPLY	Check that the Body Computer power supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	BODY COMPUTER	Check that the Body Computer is working correctly	End of diagnosis	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.

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			Test results		
1	COMPONENT CONCERNED	Ignition keys operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition keys	Try and see whether the other keys that came with the vehicle are working normally.	Go to Step 2	The other keys supplied do not work	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
2	COMPONENT CONCERNED	Code aerial operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Code aerial	Check that the code aerial is working properly	Go to Step 3	Code aerial faulty	Replace the code aerial Op. 5580E08 AERIAL FOR ELECTRONIC KEY (CODE) - R.R.
3	COMPONENT CONCERNED	CAN line check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line between powertrain control module and Body Computer	Check the correct continuity of the CAN line between powertrain control module and Body Computer	Go to Step 4	Incorrect CAN line continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	Body Computer operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 5	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
5	COMPONENT CONCERNED	Powertrain control module operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	Ignition keys operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition keys	Try and see whether the other keys that came with the vehicle are working normally.	Go to Step 2	The other keys supplied do not work	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
2	COMPONENT CONCERNED	Code aerial operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Code aerial	Check that the code aerial is working properly	Go to Step 3	Code aerial faulty	Replace the code aerial Op. 5580E08 AERIAL FOR ELECTRONIC KEY (CODE) - R.R.
3	COMPONENT CONCERNED	CAN line check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line between powertrain control module and Body Computer	Check the correct continuity of the CAN line between powertrain control module and Body Computer	Go to Step 4	Incorrect CAN line continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	Body Computer operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 5	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
5	COMPONENT CONCERNED	Powertrain control module operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	Ignition keys operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition keys	Try and see whether the other keys that came with the vehicle are working normally.	Go to Step 2	The other keys supplied do not work	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
2	COMPONENT CONCERNED	Code aerial operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Code aerial	Check that the code aerial is working properly	Go to Step 3	Code aerial faulty	Replace the code aerial Op. 5580E08 AERIAL FOR ELECTRONIC KEY (CODE) - R.R.
3	COMPONENT CONCERNED	CAN line check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line between powertrain control module and Body Computer	Check the correct continuity of the CAN line between powertrain control module and Body Computer	Go to Step 4	Incorrect CAN line continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	Body Computer operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 5	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
5	COMPONENT CONCERNED	Powertrain control module operation check	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	IGNITION KEYS OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Ignition keys	Try and see whether the other keys that came with the vehicle are working normally.	Go to Step 2	The other keys supplied do not work	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
2	COMPONENT CONCERNED	CODE AERIAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Code aerial	Check that the code aerial is working properly	Go to Step 3	Code aerial faulty	Replace the code aerial Op. 5580E08 AERIAL FOR ELECTRONIC KEY (CODE) - R.R.
3	COMPONENT CONCERNED	CAN LINE CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line between powertrain control module and Body Computer	Check the correct continuity of the CAN line between powertrain control module and Body Computer	Go to Step 4	Incorrect CAN line continuity	Restore the correct continuity for the wiring
4	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 5	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
5	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	CHECK IF THE IMPACT HAS EFFECTIVELY TAKEN PLACE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Fuel system	This error is stored after fuel pump deactivation due to the intervention of the Airbag Node in the event of an impact. Check if the impact has effectively taken place.	Go to Step 2	Impact has effectively taken place	Connect the diagnosis equipment to the Body Computer control unit, enter active diagnosis and carry out the procedure "Inertia switch reset (FIS)"
2	COMPONENT CONCERNED	BODY COMPUTER CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer connections	Check for the presence of loose connections for the Body Computer	Go to Step 3	Presence of loose connections	Restore the correct connections
3	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 4	Presence of loose connections	Restore the correct connections
4	COMPONENT CONCERNED	CAN LINE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring	Check the continuity of the wiring of the CAN line between the Body Computer and the powertrain control module	End of diagnosis	Incorrect wiring continuity	Restore the correct continuity for the wiring.

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			Test results		
1	COMPONENT CONCERNED	KEY TRANSPONDER CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Key transponder	Try to use the emergency key and check the system recognises it correctly See E7010 CODE	End of diagnosis	Key not recognised	Go to Step 2
2	COMPONENT CONCERNED	AERIAL OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Aerial	Check that the aerial is working properly	Go to Step 3	Aerial defective	Replace the aerial
3	COMPONENT CONCERNED	BODY COMPUTER CODING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Using the diagnosis equipment, check whether the Body Computer has been coded on another car	Go to Step 4	Body Computer coded on another car	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
4	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	Go to Step 5	Body Computer not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
5	COMPONENT CONCERNED	BODY COMPUTER CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer connections	Check for the presence of loose connections for the Body Computer	Go to Step 6	Presence of loose connections	Restore the correct connections
6	COMPONENT CONCERNED	CHECK CONNECTIONS ON POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Connections on the powertrain control module	Check for possible loose connections to the powertrain control module	Go to Step 7	Presence of loose connections	Restore the correct connections
7	COMPONENT CONCERNED	CAN LINE WIRING CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring	Check the continuity of the wiring of the CAN line between the Body Computer and the powertrain control module	Go to Step 8	Incorrect wiring continuity	Restore the correct continuity for the wiring.
8	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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		CODING CHECK			
	Powertrain control module	Using the diagnosis equipment, check whether the powertrain control module has been coded on another car	Go to Step 9	Powertrain control module coded for another vehicle	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
9	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working properly	End of diagnosis	Incorrect operation of the powertrain control module.	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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			Test results		
1	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN LINE WIRING BETWEEN POWERTRAIN CONTROL MODULE AND BODY COMPUTER	Check that the CAN connections between powertrain control module and Body Computer are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE CONNECTIONS	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BODY COMPUTER CONNECTIONS	Disconnect/reconnect the Body Computer connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE POWER SUPPLY	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	BODY COMPUTER POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	BODY COMPUTER POWER SUPPLY	Check that the Body Computer power supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	POWERTRAIN CONTROL MODULE	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	BODY COMPUTER	Check that the Body Computer is working correctly	End of diagnosis	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.

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			Test results		
1	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and Body Computer	Check that the CAN connections between powertrain control module and Body Computer are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer connections	Disconnect/reconnect the Body Computer connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	BODY COMPUTER POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer power supply	Check that the Body Computer power supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	End of diagnosis	The Body Computer is not working correctly	Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.

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			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between ABS control unit and powertrain control module	Check that the CAN connections between the powertrain control module and the ABS control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit connections	Disconnect/reconnect the ABS control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	ABS CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit supply	Check that the power supply for the ABS control unit is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	ABS CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check that the ABS control unit is working properly	End of diagnosis	The ABS control unit is not working correctly	Replace the ABS control unit Op. 3340A20 ABS ELECTRONIC CONTROL UNIT - R+R

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			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between ABS control unit and powertrain control module	Check that the CAN connections between the powertrain control module and the ABS control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit connections	Disconnect/reconnect the ABS control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	ABS CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit supply	Check that the power supply for the ABS control unit is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	ABS CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check that the ABS control unit is working properly	End of diagnosis	The ABS control unit is not working correctly	Replace the ABS control unit Op. 3340A20 ABS ELECTRONIC CONTROL UNIT - R+R

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			Test results		
1	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and robotised gearbox control unit	Check that the CAN connections between the powertrain control module and the robotised gearbox control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit connections	Disconnect/reconnect the robotised gearbox control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	ROBOTISED GEARBOX CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit supply	Check that the power supply for the robotised gearbox control unit is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION

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	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	CHECK THE ROBOTISED GEARBOX CONTROL UNIT OPERATION	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Robotised gearbox control unit	Check that the robotised gearbox control unit is working properly	End of diagnosis	The robotised gearbox control unit is not working correctly	Replace the robotised gearbox control unit Op. 2128E01 ELECTRONIC CONTROL UNIT (TCU) - R.R.

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			Test results		
1	COMPONENT CONCERNED	CONNECTIONS BETWEEN POWERTRAIN CONTROL MODULE AND STEERING COLUMN STALK CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and steering angle sensor	Check that the CAN connections between powertrain control module and steering angle sensor are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	STEERING ANGLE SENSOR CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Steering angle sensor connections	Disconnect/reconnect the steering angle sensor connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	STEERING ANGLE SENSOR SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Steering angle sensor supply	Check that the steering angle sensor supply is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	STEERING ANGLE SENSOR OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Steering angle sensor	Check that the steering angle sensor is working correctly	Go to Step 7	Incorrect operation of the steering angle sensor	Replace the steering column stalk Op. 5550A10 STALK UNIT ASSEMBLY -

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7	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	End of diagnosis	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Body Control Module (BCM) CAN transmission - Value of signal protection calculation incorrect U1900-83

			Test results		
1	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and Body Computer	Check that the CAN connections between powertrain control module and Body Computer are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	BODY COMPUTER CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer connections	Disconnect/reconnect the robotised gearbox control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	BODY COMPUTER POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer power supply	Check that the power supply for the robotised gearbox control unit is correct	Go to Step 6	Power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	BODY COMPUTER OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Body Computer	Check that the Body Computer is working correctly	End of diagnosis	The Body Computer is not working correctly	Replace the body computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.

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			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between ABS control unit and powertrain control module	Check that the CAN connections between the powertrain control module and the ABS control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit connections	Disconnect/reconnect the ABS control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	ABS CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit supply	Check that the power supply for the ABS control unit is correct	Go to Step 6	ABS control unit power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	ABS CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check that the ABS control unit is working properly	End of diagnosis	The ABS control unit is not working correctly	Replace ABS control unit Op. 3340A12 ABS HYDRAULIC AND ELECTRONIC CONTROL UNIT - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Brake System Module (BSM) CAN trasmission - Value of signal protection calculation incorrect U1902-83

			Test results		
1	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between ABS control unit and powertrain control module	Check that the CAN connections between the powertrain control module and the ABS control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	ABS CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit connections	Disconnect/reconnect the ABS control unit connectors and check for the presence of loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	ABS CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit supply	Check that the power supply for the ABS control unit is correct	Go to Step 6	ABS control unit power supply not correct	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION IGNITION SYSTEM - R.R.

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7	COMPONENT CONCERNED	ABS CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	ABS control unit	Check that the ABS control unit is working properly	End of diagnosis	The ABS control unit is not working correctly	Replace ABS control unit Op. 3340A12 ABS HYDRAULIC AND ELECTRONIC CONTROL UNIT - R.R.

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643 - ALFA 4C 1750 Turbo Benzina Dual Clutch Transmission Module (DCTM) Can transmission - Value of signal protection calculation incorrect U3442-83

			Test results		
1	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and transmission control unit	Check that the CAN connections between the powertrain control module and the transmission control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission control unit connections	Disconnect/reconnect the transmission control unit connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission control unit power supply	Check that the power supply for the transmission control unit is correct	Go to Step 6	Incorrect power supply of the transmission control unit	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working	Go to Step 7	Powertrain control module not working	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR

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		correctly		properly	INJECTION IGNITION SYSTEM - R.R.
7	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission Control Module	Check that the transmission control unit is working correctly	End of diagnosis	Transmission control unit not working correctly	Replace the transmission control unit Op. 2128E01 ELECTRONIC CONTROL UNIT (TCU) - R.R.

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			Test results		
1	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT CONNECTIONS CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	CAN line wiring between powertrain control module and transmission control unit	Check that the CAN connections between the powertrain control module and the transmission control unit are not faulty. In particular, that there are no open circuit or short circuit problems See E1050 CAN CONNECTION LINES	Go to Step 2	There are faulty connections	Restore or, if necessary, replace the wiring.
2	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module connections	Disconnect/reconnect the powertrain control module connectors and check for a loose pin	Go to Step 3	Presence of a loose pin	Restore the correct operation of the connector
3	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT CONNECTION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission control unit connections	Disconnect/reconnect the transmission control unit connectors and check for loose pins	Go to Step 4	Presence of a loose pin	Restore the correct operation of the connector
4	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module power supply	Check that the power supply for the powertrain control module is correct	Go to Step 5	Power supply not correct	Restore the correct power supply
5	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT POWER SUPPLY CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission control unit power supply	Check that the power supply for the transmission control unit is correct	Go to Step 6	Incorrect power supply of the transmission control unit	Restore the correct power supply.
6	COMPONENT CONCERNED	POWERTRAIN CONTROL MODULE OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Powertrain control module	Check that the powertrain control module is working correctly	Go to Step 7	Powertrain control module not working properly	Replace the powertrain control module Op. 1056F82 CONTROL UNIT (ONE) FOR INJECTION

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7	COMPONENT CONCERNED	TRANSMISSION CONTROL UNIT OPERATION CHECK	OK (NO FAULTS DETECTED)	FAULT DETECTED	OPERATION
	Transmission Control Module	Check that the transmission control unit is working correctly	End of diagnosis	Transmission control unit not working correctly	Replace the transmission control unit Op. 2128E01 ELECTRONIC CONTROL UNIT (TCU) - R.R.

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