
OUTLINE OF CHANGES

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HOW TO READ THE WIRING DIAGRAMS

Name	Reference page	Description of changes
MODELS	1-2	The model configuration has been changed to correspond to the addition of new vehicle models.
ABBREVIATION SYMBOLS	1-2	New abbreviation symbol definitions have been added to correspond to the addition of a variable geometry turbocharger.

WIRING HARNESS CONFIGURATION DIAGRAMS

Connector symbol	Name		Reference page	Description of changes
A	ENGINE COMPART-MENT	Petrol <L.H. drive vehicles>	2-2	- An ambient temperature sensor connector (A-117) has been added to correspond to the addition of an automatic air conditioner system. - New wiring harness configuration diagrams have been established to correspond to the addition of an emission regulation Step III-compatible 4D56 engine.
		Diesel-Step III <L.H. drive vehicles>	2-6	
		Diesel-Step III <R.H. drive vehicles>	2-10	
C	DASH PANEL	L.H. drive vehicles	2-14	- The following connectors have been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine and the addition of an automatic air conditioner system. - A/C-ECU <Automatic A/C> (C-93) - A/C-ECU <Automatic A/C> (C-94) - Air thermo sensor <Automatic A/C> (C-95) - Outside/Inside air selection damper control motor <Automatic A/C> (C-96) - Body wiring harness and front wiring harness combination (C-97) - Engine control relay <Diesel-step III> (C-98) - Blower high speed relay <Automatic A/C> (C-99) - Power transistor <Automatic A/C> (C-100) - Photo sensor <Automatic A/C> (C-101) - Air mixing damper control motor and potentiometer <Automatic A/C> (C-102) - Heater water temperature sensor <Automatic A/C> (C-103) - Mode selection damper control motor and potentiometer <Automatic A/C> (C-104) - Accelerator pedal position sensor <Diesel-step III> (C-105) - Engine-ECU <Diesel-step III> (C-106) - Engine-ECU <Diesel-step III> (C-107) - Engine-ECU <Diesel-step III> (C-108) - Engine-ECU <Diesel-step III> (C-109)

Connector symbol	Name		Reference page	Description of changes
C	DASH PANEL	L.H. drive vehicles	2-14	- The classification for the automatic compressor-controller connector <Petrol> (C-09) has been changed to <Manual A/C (Petrol, Diesel-step III)>. - The classification for the automatic compressor-controller connector <Petrol> (C-10) has been changed to <Manual A/C (Petrol, Diesel-step III)>. - The classification for the glow-ECU connector <Diesel> (C-48) has been changed to <Diesel-step II>. - The classification for the intercooler fan-ECU connector <Diesel> (C-52) has been changed to <Diesel-step II>. - The following connectors have been eliminated. - Body wiring harness and front wiring harness combination (C-15) - Wide-open throttle switch (C-89)
		R.H. drive vehicles	2-18	- The following connectors have been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine. - Body wiring harness and front wiring harness combination <Diesel-step III> (C-97) - Engine control relay <Diesel-step III> (C-98) - Accelerator pedal position sensor <Diesel-step III> (C-105) - Engine-ECU <Diesel-step III> (C-106) - Engine-ECU <Diesel-step III> (C-107) - Engine-ECU <Diesel-step III> (C-108) - Engine-ECU <Diesel-step III> (C-109) - The classification for the automatic compressor-controller connector <Petrol> (C-09) has been changed to <Manual A/C (Petrol, Diesel-step III)>. - The classification for the automatic compressor-controller connector <Diesel> (C-10) has been changed to <Manual A/C (Diesel-step II)>. - The body wiring harness and front wiring harness combination connector (C-15) has been changed to a body wiring harness and front wiring harness combination connector <Diesel-step II> (C-15). - The classification for the glow-ECU connector <Diesel> (C-48) has been changed to <Diesel-step II>. - The classification for the intercooler fan-ECU connector <Diesel> (C-52) has been changed to <Diesel-step II>. - The wide open throttle switch connector (C-89) has been eliminated.

SINGLE PART INSTALLATION POSITION

Location of changes	Reference page	Description of changes
RELAY	3-2	A blower high speed relay has been added to correspond to the addition of an automatic air conditioner system.
ECU	3-2	An A/C-ECU has been added to correspond to the addition of an automatic air conditioner system.

Location of changes	Reference page	Description of changes
SENSOR	3-3	- The following sensors have been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine and the addition of an automatic air conditioner system. - Accelerator pedal position sensor <Diesel-step III> - Air thermo sensor <Automatic A/C> - Ambient temperature sensor <Automatic A/C> - Boost air temperature sensor <Diesel-step III> - Boost pressure sensor <Diesel-step III> - Control sleeve position sensor <Diesel-step III> - Crank angle sensor <Diesel-step III> - EGR valve position sensor <Diesel-step III> - Engine coolant temperature sensor <Diesel-step III> - Fuel temperature sensor <Diesel-step III> - Heater water temperature sensor <Automatic A/C> - Photo sensor <Automatic A/C> - Pump speed sensor (back-up) <Diesel-step III> - Timer piston position sensor <Diesel-step III> - VG control pressure sensor <Diesel-step III>
SOLENOID VALVE	3-5	- The following solenoid valves have been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine. - Fuel cut solenoid valve <Diesel-step III> - GE actuator <Diesel-step III> - Throttle solenoid valve <Diesel-step III> - Timing control valve <Diesel-step III> - VGT solenoid valve <Diesel-step III>

CIRCUIT DIAGRAMS

Main title	Sub title	Reference page	Description of changes
JOINT CONNECTOR (J/C)	–	4-2	A new circuit has been established to correspond to the addition of an emission regulation Step III-compatible 4D56 engine and an automatic air conditioner system.
CENTRALIZED JUNCTION	–	–	- An automatic air conditioner system has been added to the circuits which use dedicated fuse 5. - The following load circuits have been added to multi-purpose fuse 7. - A/C-ECU - Blower high speed relay - Condenser fan relay
POWER DISTRIBUTION SYSTEM	L.H. drive vehicles	4-6	Special circuits for '02 models have been added.
	R.H. drive vehicles	4-12	
STARTING SYSTEM	M/T	4-18	

Main title	Sub title	Reference page	Description of changes
ENGINE CONTROL SYSTEM	MPI-M/T	4-20	Special circuits for '02 models have been added.
	MPI-A/T	4-30	
	Diesel <Step II>	4-40	
	Diesel <Step III>	4-42	A new circuit has been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine.
INVECS-II 4A/T	–	4-50	Special circuits for '02 models have been added.
METER AND GAUGE	–	4-60	A new circuit has been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine.
ENGINE OIL LEVEL WARNING LAMP	Diesel-powered vehicles	4-63	
BRAKE WARNING LAMP	–	4-64	
FUEL WARNING LAMP	–	4-64	
OIL PRESSURE WARNING LAMP	–	4-65	
FUEL FILTER WARNING LAMP	Diesel-powered vehicles	4-65	
MULTI-METER	–	4-66	
MANUAL AIR CONDITIONER	Except diesel-powered vehicles <Step II>	4-68	
AUTOMATIC AIR CONDITIONER	–	4-75	A new circuit has been added to correspond to the addition of an automatic air conditioner system.
AUTO-CRUISE CONTROL SYSTEM	–	4-82	Special circuits for '02 models have been added.
IMMOBILIZER SYSTEM	Petrol-powered vehicles	4-88	
	Diesel-powered vehicles <Step III>	4-90	A new circuit has been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine.
INTERCOOLER FAN	Diesel-powered vehicles <Step II>	4-92	Special circuits for '02 models have been added.
	Diesel-powered vehicles <Step III>	4-93	A new circuit has been added to correspond to the addition of an emission regulation Step III-compatible 4D56 engine.
FUEL LINE HEATER	–	4-94	

TABLE OF CIRCUIT DIAGRAMS

This table of circuit diagrams indicates those circuits in which changes and/or additions, etc. have been made; the circuits are here listed in the sequence in which they are presented in the wiring diagrams. Please use this table for reference when following maintenance or repair procedures.

NOTE

- (1) A (Added) : This circuit has been newly added.
- (2) R (Revised) : This circuit has been changed.
- (3) D (Deleted) : This circuit has been deleted.
- (4) I (Included) : This circuit is included in the previous manual(s).
- (5) N (Not applicable) : This circuit is not applicable.
- (6) P (Previous manual) : This circuit is not included, because it has not been changed.
Refer to the previous manual(s).
- (7) * : Specifications have been changed to correspond to the addition of emission regulation step III compatibility.

Main circuit	Circuit classifications	Previous manual: Pub. No. PHJE9810 (Basic)	Previous manual: Pub. No. PHJE9810-A (Supplement)	Previous manual: Pub. No. PHJE9810-B (Supplement)	This manual: Pub. No. PHJE9810-C (Supplement)
JUNCTION BLOCK (J/B)	–	I	P	P	P
JOINT CONNECTOR (J/C)	–	I	R	R	R
CENTRALIZED JUNCTION	–	I	R	P	R
POWER DISTRIBUTION SYSTEM	L.H. drive vehicles	I	P	R	R
	R.H. drive vehicles	I	P	R	R
STARTING SYSTEM	–	I	D	P	P
	M/T	N	A	P	R
	A/T	N	A	R	P
IGNITION SYSTEM	–	I	R	R	P
CHARGING SYSTEM	Petrol-powered vehicles	I	P	P	P
	Diesel-powered vehicles	I	P	P	P
GLOW-SYSTEM	–	I	R	P	P
ENGINE CONTROL SYSTEM	–	I	D	P	P
	MPI-M/T	N	A	R	R
	MPI-A/T	N	A	R	R
	Diesel	I	R	P	D
	Diesel <Step II>	N	N	N	A
	Diesel <Step III>	N	N	N	A
INVECS-II 4A/T	–	N	A	R	R
HEADLAMP	L.H. drive vehicles with daytime running lamp	I	P	P	P
	L.H. drive vehicles without daytime running lamp	I	P	P	P
	R.H. drive vehicles	I	P	P	P
TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP	L.H. drive vehicles	I	R	P	P
	R.H. drive vehicles	I	R	P	P

Main circuit	Circuit classifications	Previous manual: Pub. No. PHJE9810 (Basic)	Previous manual: Pub. No. PHJE9810-A (Supplement)	Previous manual: Pub. No. PHJE9810-B (Supplement)	This manual: Pub. No. PHJE9810-C (Supplement)
FRONT FOG LAMP	L.H. drive vehicles	I	R	P	P
	R.H. drive vehicles	I	R	P	P
REAR FOG LAMP	L.H. drive vehicles	I	R	R	P
	R.H. drive vehicles	I	R	R	P
GLOVE BOX LAMP	–	N	A	P	P
HEADLAMP LEVELING SYSTEM	–	I	R	P	P
ROOM LAMP, MAP LAMP AND LUGGAGE COMPARTMENT LAMP	–	I	D	P	P
	Vehicles with keyless entry system	N	A	P	P
	Vehicles without keyless entry system	N	A	P	P
IGNITION KEY CYLINDER ILLUMINATION LAMP	L.H. drive vehicles	I	R	P	P
	R.H. drive vehicles	I	R	P	P
DOOR LAMP	–	I	D	P	P
	L.H. drive vehicles	N	A	P	P
	R.H. drive vehicles	N	A	P	P
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	–	I	R	P	P
STOP LAMP	–	I	R	P	P
BACK-UP LAMP	–	I	R	P	P
HORN	–	I	R	P	P
METER AND GAUGE	–	I	R	R	R
BRAKE WARNING LAMP	–	I	R	R	R
FUEL WARNING LAMP	–	I	R	R	R
OIL PRESSURE WARNING LAMP	–	I	R	R	R
FUEL FILTER WARNING LAMP	–	I	R	R	R
ENGINE OIL LEVEL WARNING LAMP	Petrol-powered vehicles	I	P	R	P
	Diesel-powered vehicles	I	P	P	R
MULTI-METER	–	I	P	P	R

Main circuit	Circuit classifications	Previous manual: Pub. No. PHJE9810 (Basic)	Previous manual: Pub. No. PHJE9810-A (Supplement)	Previous manual: Pub. No. PHJE9810-B (Supplement)	This manual: Pub. No. PHJE9810-C (Supplement)
CENTRAL DOOR LOCKING SYSTEM	L.H. drive vehicles	I	D	P	P
	R.H. drive vehicles	I	D	P	P
	L.H. drive vehicles with keyless entry system	N	A	P	P
	L.H. drive vehicles without keyless entry system	N	A	P	P
	R.H. drive vehicles with keyless entry system	N	A	P	P
	R.H. drive vehicles without keyless entry system	N	A	P	P
POWER WINDOWS	–	I	R	P	P
HEATER	–	I	D	P	P
	Petrol-powered vehicles	N	A	R	P
	Diesel-powered vehicles	N	A	R	P
MANUAL AIR CONDITIONER	Petrol-powered vehicles	I	R	R	D
	Diesel-powered vehicles <Step II>*	I	R	R	P
	Except diesel-powered vehicles <Step II>	N	N	N	A
AUTOMATIC AIR CONDITIONER	–	N	N	N	A
REAR HEATER	–	I	R	P	P
WINDSHIELD WIPER AND WASHER	–	I	P	P	P
REAR WIPER AND WASHER	–	I	R	P	P
HEADLAMP WASHER	–	I	R	P	P
REAR WINDOW DEFOGGER, DOOR MIRROR HEATER AND WIPER DEICER	–	I	P	P	P
REMOTE CONTROLLED MIRROR	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
RADIO AND TAPE PLAYER	–	I	R	P	P
CLOCK	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
CIGARETTE LIGHTER	–	I	P	P	P
ACCESSORY SOCKET	–	I	R	P	P
ANTI-SKID BRAKING SYSTEM (ABS)	–	I	R	R	P
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	–	I	R	P	P

Main circuit	Circuit classifications	Previous manual: Pub. No. PHJE9810 (Basic)	Previous manual: Pub. No. PHJE9810-A (Supplement)	Previous manual: Pub. No. PHJE9810-B (Supplement)	This manual: Pub. No. PHJE9810-C (Supplement)
AUTO-CRUISE CONTROL SYSTEM	–	I	R	R	R
PART TIME 4WD SYSTEM	–	I	R	R	P
SUNROOF	–	I	R	P	P
IMMOBILIZER SYSTEM	Petrol-powered vehicles	I	R	R	R
	Diesel-powered vehicles <Step II>*	I	P	P	P
	Diesel-powered vehicles <Step III>	N	N	N	A
LIGHTING MONITOR BUZZER	L.H. drive vehicles	I	R	P	P
	R.H. drive vehicles	I	R	P	P
HEATED SEAT	–	I	R	P	P
RHEOSTAT	–	I	R	P	P
FUEL LINE HEATER	–	I	R	P	R
INTERCOOLER FAN	–	I	R	P	D
	Diesel-powered vehicles <Step II>	N	N	N	A
	Diesel-powered vehicles <Step III>	N	N	N	A