
OUTLINE OF CHANGES

CONTENTS

WIRING HARNESS CONFIGURATION DIAGRAMS	2	CIRCUIT DIAGRAMS	4
SINGLE PART INSTALLATION POSITION ...	3	TABLE OF CIRCUIT DIAGRAMS	6

WIRING HARNESS CONFIGURATION DIAGRAMS

Connector symbol	Name		Reference page	Description of changes
A	ENGINE COMPARTMENT	SPACE RUNNER <4G63-MPI (L.H. drive vehicles)>	2-2	- The following connectors have been abolished. - Control wiring harness and vehicles speed sensor wiring harness combination <A/T> (A-81) - Vehicle speed sensor <A/T> (A-85) - Brake warning lamp relay <ABS with EBD> (A-104) - An ignition failure sensor connector (A-105) has been added.
		SPACE RUNNER <4G63-MPI (R.H. drive vehicles)>	2-6	
		SPACE RUNNER <4G64-GDI (L.H. drive vehicles)>	2-10	
		SPACE WAGON <4G63-MPI (L.H. drive vehicles)>	2-14	New wiring harness configuration diagrams have been established to correspond to the addition of SPACE WAGON vehicles with 4G63-MPI engine.
		SPACE WAGON <4G63-MPI (R.H. drive vehicles)>	2-18	
		SPACE WAGON <4G64-GDI (L.H. drive vehicles)>	2-22	New wiring harness configuration diagrams have been established for 2001 models.
		SPACE WAGON <4G64-GDI (R.H. drive vehicles)>	2-26	
B	DASH PANEL	L.H. drive vehicles	2-30	- The following connectors have been abolished. - A/T-ECU <GDI> (B-10) - A/T-ECU <GDI> (B-11) - A/T-ECU <GDI> (B-12) - The following connectors have been added. - Engine-ECU <GDI-M/T> (B-115) - Engine-ECU <GDI-M/T> (B-116) - Engine-ECU <GDI-M/T> (B-117) - Auto-cruise control switch (B-118) - Engine-ECU <GDI, MPI-M/T> connectors (B-51, B-52, B-53 and B-54) have been limited to <MPI-M/T>. - The number of pins on the clutch switch <GDI-M/T> connector has been changed from 4 to 2. - Engine-A/T-ECU <MPI-M/T> connectors (B-110, B-111, B-112 and B-113) have been limited to <A/T>.
		R.H. drive vehicles	2-36	

SINGLE PART INSTALLATION POSITION

Location of changes	Reference page	Description of changes
SENSOR	3-2	• The mounting position for the throttle position sensor has been changed. • An ignition failure sensor has been added. • A camshaft position sensor 1 <GDI> has been added. • A camshaft position sensor 2 <GDI> has been added.
SOLENOID VALVE	3-3	• The mounting position for the EGR solenoid valve has been changed. • The mounting position for the purge control solenoid valve has been changed. • An oil control valve <GDI> has been added.
EARTH CABLE	3-4	• The mounting position for the earth cable valve has been changed in vehicles with 4G64-GDI engine.
EARTH	3-4	• The mounting position for earth No. 8 <GDI> has been changed.

CIRCUIT DIAGRAMS

Main title	Sub title	Reference page	Description of changes
IGNITION SYSTEM	MPI	4-2	The circuit has been changed to correspond to the addition of an ignition failure sensor.
	GDI	4-4	The circuit has been changed to correspond to the addition of an ignition failure sensor and the change in engine control and A/T control into comprehensive control in vehicles with A/T.
CHARGING SYSTEM	–	4-6	The circuit has been changed to correspond to changes to the engine-ECU in vehicles with 4G64-GDI engine and M/T, and the change in engine control and A/T control into comprehensive control in vehicles with A/T.
ENGINE CONTROL SYSTEM	4G63-MPI-M/T	4-8	- New circuits have been established to correspond to the following changes. - An ignition failure sensor has been added. - The oxygen sensor (rear) circuit has been changed. - The vehicle speed sensor has been abolished in vehicles with A/T. - The shapes of the purge control solenoid valve and idle speed control servo connectors have been changed.
	4G63-MPI-A/T	4-16	
	4G64-GDI-M/T	4-24	- New circuits have been established to correspond to the following changes. - The engine-ECU has been changed in vehicles with M/T. - Engine control and A/T control have been changed to comprehensive control in vehicles with A/T. - An ignition failure sensor has been added. - The vehicle speed sensor has been abolished in vehicles with A/T. - A camshaft position sensor 1, 2 has been added. - An oil control valve has been added. - Contents have been added for vehicles with auto-cruise control system.
	4G64-GDI-A/T	4-40	
COOLING SYSTEM	–	4-56	The circuit has been changed to correspond to changes to the engine-ECU in vehicles with 4G64-GDI engine and M/T, and the change in engine control and A/T control into comprehensive control in vehicles with A/T.
INVECS-II 4A/T	–	4-58	New circuits have been established for 2001 models to correspond to the abolition of the vehicle speed sensor in vehicles with A/T.
METER AND GAUGE	M/T <L.H. drive vehicles>	4-70	
	M/T <R.H. drive vehicles>	4-72	
	A/T <L.H. drive vehicles>	4-74	
	A/T <R.H. drive vehicles>	4-76	

Main title	Sub title	Reference page	Description of changes
BRAKE WARNING LAMP	L.H. drive vehicles	4-78	- The terminal numbers have been changed to correspond to the change in the shape of the brake fluid level switch connector. - The colour of the wires between the combination meter and the parking brake switch and brake fluid level switch has been changed from Y to Y-B.
	R.H. drive vehicles	4-79	
AIR CONDITIONER	L.H. drive vehicles	4-80	The circuit has been changed to correspond to changes to the engine-ECU in vehicles with 4G64-GDI engine and M/T, and the change in engine control and A/T control into comprehensive control in vehicles with A/T.
	R.H. drive vehicles	4-84	
MULTI CENTER DISPLAY	L.H. drive vehicles without navigation system	4-88	The circuit has been changed to correspond to the abolition of the vehicle speed sensor in vehicles with A/T, changes to the engine-ECU in vehicles with 4G64-GDI engine and M/T, and the change in engine control and A/T control into comprehensive control in vehicles with A/T.
	L.H. drive vehicles with navigation system	4-96	
	R.H. drive vehicles without navigation system	4-104	
	R.H. drive vehicles with navigation system	4-112	
ANTI-SKID BRAKING SYSTEM (ABS)	–	–	The brake warning lamp illumination display has been abolished in vehicles with EBD.
AUTO-CRUISE CONTROL SYSTEM	4G64-GDI-M/T	4-120	New circuits have been established to correspond to the addition of vehicles with auto-cruise control system.
	4G64-GDI-A/T	4-128	
IMMOBILIZER SYSTEM	GDI	4-136	The circuit has been changed to correspond to changes to the engine-ECU in vehicles with 4G64-GDI engine and M/T, and the change in engine control and A/T control into comprehensive control in vehicles with A/T.

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 manuals.
 - (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 manuals.

Main circuit	Circuit classifications	Previous manual: Pub. No. PHDE9802 (Basic)	Previous manual: Pub. No. PHDE9802-A (Supplement)	Previous manual: Pub. No. PHDE9802-B (Supplement)	This manual: Pub. No. PHDE9802-C (Supplement)
JUNCTION BLOCK (J/B)	—	I	I	P	P
JOINT CONNECTOR (J/C)	L.H. drive vehicles	I	I	P	P
	R.H. drive vehicles	I	I	P	P
CENTRALIZED JUNCTION	—	I	I	P	P
POWER DISTRIBUTION SYSTEM	L.H. drive vehicles	I	I	P	P
	R.H. drive vehicles	I	I	P	P
STARTING SYSTEM	—	I	R	P	P
IGNITION SYSTEM	MPI	N	A	N	R
	GDI	N	A	N	R
	—	I	D	P	D
CHARGING SYSTEM	—	I	R	P	R
ENGINE CONTROL SYSTEM	4G63-MPI-M/T <L.H. drive vehicles>	N	A	N	D
	4G63-MPI-M/T <R.H. drive vehicles>	N	A	N	D
	4G63-MPI-M/T	N	N	N	A
	4G63-MPI-A/T <L.H. drive vehicles>	N	A	N	D
	4G63-MPI-A/T <R.H. drive vehicles>	N	A	N	D
	4G63-MPI-A/T	N	N	N	A
	4G93-GDI <L.H. drive vehicles>	I	D	D	D
	4G93-GDI <R.H. drive vehicles>	I	D	D	D
	4G64-GDI <SPACE RUNNER (L.H. drive vehicles)>	N	A	N	D
	4G64-GDI <SPACE WAGON (L.H. drive vehicles)>	N	A	N	D
	4G64-GDI <L.H. drive vehicles>	I	D	R	D
	4G64-GDI <R.H. drive vehicles>	I	P	R	D
	4G64-GDI-M/T	N	N	N	A
	4G64-GDI-A/T	N	N	N	A
COOLING SYSTEM	—	I	R	R	R

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INVECS-II 4A/T	–	I	D	N	A
	MPI	N	A	N	D
	GDI	I	N	R	D
	GDI <SPACE RUNNER>	N	A	N	D
	GDI <SPACE WAGON>	N	A	N	D
HEADLAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP	SPACE RUNNER <L.H. drive vehicles>	I	P	P	P
	SPACE RUNNER <R.H. drive vehicles>	I	P	P	P
	SPACE WAGON <L.H. drive vehicles>	I	P	P	P
	SPACE WAGON <R.H. drive vehicles>	I	P	P	P
FRONT FOG LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
REAR FOG LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
ROOM LAMP AND LUGGAGE COMPARTMENT LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
GLOVE BOX LAMP	–	I	P	P	P
DOOR LAMP	SPACE RUNNER	I	P	P	P
	SPACE WAGON <L.H. drive vehicles>	I	P	P	P
	SPACE WAGON <R.H. drive vehicles>	I	P	P	P
HEADLAMP LEVELING SYSTEM	SPACE RUNNER	I	P	P	P
	SPACE WAGON	I	P	P	P
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
STOP LAMP	SPACE RUNNER	I	P	P	P
	SPACE WAGON	I	P	P	P
BACK-UP LAMP	SPACE RUNNER	I	P	P	P
	SPACE WAGON	I	P	P	P
HORN	–	I	P	P	P
METER AND GAUGE	L.H. drive vehicles	I	P	P	D
	R.H. drive vehicles	I	P	P	D
	M/T <L.H. drive vehicles>	N	N	N	A
	M/T <R.H. drive vehicles>	N	N	N	A
	A/T <L.H. drive vehicles>	N	N	N	A
	A/T <R.H. drive vehicles>	N	N	N	A

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BRAKE WARNING LAMP	L.H. drive vehicles	I	P	P	R
	R.H. drive vehicles	I	P	P	R
OIL PRESSURE WARNING LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
FUEL WARNING LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
ENGINE OIL LEVEL WARNING LAMP	L.H. drive vehicles	N	A	N	P
	R.H. drive vehicles	N	A	N	P
	SPACE WAGON <L.H. drive vehicles>	I	N	P	D
	SPACE WAGON <R.H. drive vehicles>	I	N	P	D
POWER WINDOWS	SPACE RUNNER <L.H. drive vehicles>	I	P	P	P
	SPACE RUNNER <R.H. drive vehicles>	I	P	P	P
	SPACE WAGON <L.H. drive vehicles>	I	P	P	P
	SPACE WAGON <R.H. drive vehicles>	I	P	P	P
CENTRAL DOOR LOCKING SYSTEM	L.H. drive vehicles without keyless entry system <SPACE RUNNER>	I	P	P	P
	L.H. drive vehicles with keyless entry system <SPACE RUNNER>	I	P	P	P
	L.H. drive vehicles without keyless entry system <SPACE WAGON>	I	P	P	P
	L.H. drive vehicles with keyless entry system <SPACE WAGON>	I	P	P	P
	R.H. drive vehicles without keyless entry system <SPACE RUNNER>	I	P	P	P
	R.H. drive vehicles with keyless entry system <SPACE RUNNER>	I	P	P	P
	R.H. drive vehicles without keyless entry system <SPACE WAGON>	I	P	P	P
	R.H. drive vehicles with keyless entry system <SPACE WAGON>	I	P	P	P
HEATER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
AIR CONDITIONER	L.H. drive vehicles	I	P	P	R
	R.H. drive vehicles	I	P	P	R
WINDSHIELD WIPER AND WASHER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
REAR WIPER AND WASHER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
DEFOGGER AND DOOR MIRROR HEATER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P

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REMOTE CONTROLLED MIRROR	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
HEADLAMP WASHER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
MULTI CENTER DISPLAY	L.H. drive vehicles without navigation system	I	P	P	R
	L.H. drive vehicles with navigation system	I	P	P	R
	R.H. drive vehicles without navigation system	I	P	P	R
	R.H. drive vehicles with navigation system	I	P	P	R
CIGARETTE LIGHTER	–	I	P	P	P
ACCESSORY SOCKET	–	I	P	P	P
ANTI-SKID BRAKING SYSTEM (ABS)	–	I	R	R	R
AUTO-CRUISE CONTROL SYSTEM	4G64-GDI-M/T	N	N	N	A
	4G64-GDI-A/T	N	N	N	A
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	Vehicles without side air bag	I	P	P	P
	L.H. drive vehicles with side air bag	I	P	P	P
	R.H. drive vehicles with side air bag	I	P	P	P
IMMOBILIZER SYSTEM	4G93-GDI	I	D	N	N
	4G64-GDI	I	D	N	N
	MPI	N	A	N	P
	GDI	N	A	A	R
SUNROOF	–	I	P	P	P
RHEOSTAT	–	I	P	P	P
HEATED SEAT	–	I	P	P	P
LIGHTER MONITOR BUZZER	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
IGNITION KEY REMINDER BUZZER	–	I	P	P	P