
OUTLINE OF CHANGES

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WIRING HARNESS CONFIGURATION DIAGRAMS

Connector symbol	Name	Reference page	Description of changes	
A	ENGINE COMPARTMENT	4G9 engine <L.H. drive vehicles>	2-2	<ul style="list-style-type: none"> New wiring harness configuration diagrams have been added due to the addition of 4G93-MPI engine model.
		4G9 engine <R.H. drive vehicles>	2-6	
		F9Q2 engine <L.H. drive vehicles>	-	<ul style="list-style-type: none"> The contents for F9Q2 engine model are the same as for F9Q1 engine model.
		F9Q2 engine <R.H. drive vehicles>	-	
B	DASH PANEL	L.H. drive vehicles	-	<ul style="list-style-type: none"> The following connectors have been changed due to the addition of 4G93-MPI engine model. <ul style="list-style-type: none"> The engine-ECU <4G1-M/T> connectors B-28, B-29, B-30, and B-31 have been changed to the engine-ECU <Petrol-M/T>. The control wiring harness and body wiring harness combination <Except 4G1-M/T> connector B-89 has been changed to the control wiring harness and body wiring harness combination <Except Petrol-M/T>. The oxygen sensor (Rear) <4G1> connector B-90 has been changed to the oxygen sensor (Rear).
		R.H. drive vehicles	-	

SINGLE PART INSTALLATION POSITION

Location of changes	Reference page	Description of changes
RELAY	-	<ul style="list-style-type: none"> ● The following relay mounting positions for 4G93-MPI engine model are the same as for the 4G1 engine model. <ul style="list-style-type: none"> ● Condenser fan relay (LO) ● Condenser fan relay (HI) ● Radiator fan relay ● The following relay mounting positions for F9Q2 engine model are the same as for F9Q1 engine model. <ul style="list-style-type: none"> ● Additional heater relay 1 ● Additional heater relay 2 ● Condenser fan relay (LO) ● Main relay
ECU	-	<ul style="list-style-type: none"> ● The engine-ECU mounting positions for F9Q2 engine model are the same as for F9Q1 engine model.
SENSOR	3-2	<ul style="list-style-type: none"> ● The following sensor mounting positions have been changed due to the addition of 4G93-MPI engine model. <ul style="list-style-type: none"> ● Air flow sensor ● Camshaft position sensor ● Crank angle sensor ● Engine coolant temperature sensor ● Throttle position sensor ● The following sensor mounting positions for 4G93-MPI engine model are the same as for 4G1 engine model. <ul style="list-style-type: none"> ● Oxygen sensor (Front) ● Oxygen sensor (Rear) ● The sensor mounting positions for F9Q2 engine model are the same as for F9Q1 engine model. <ul style="list-style-type: none"> ● Accelerator pedal position sensor ● Air flow sensor ● Advance actuator ● Boost sensor ● Engine coolant temperature sensor ● Fuel temperature sensor ● Rail pressure sensor ● Top dead center and engine speed sensor ● Vehicle speed sensor
SOLENOID AND SOLENOID VALVE	3-3	<ul style="list-style-type: none"> ● The following solenoid valve mounting positions have been added or changed due to the addition of 4G93-MPI engine model. <ul style="list-style-type: none"> ● An EGR solenoid valve has been added. ● The purge control solenoid valve has been changed. ● The following solenoid valve mounting positions for F9Q2 engine model are the same as for F9Q1 engine model. <ul style="list-style-type: none"> ● Throttle solenoid ● Turbocharger solenoid
DIODE	-	<ul style="list-style-type: none"> ● The diode (engine control system circuit) mounting positions for F9Q2 engine model are the same as for F9Q1 engine model.
EARTH CABLE	3-3	<ul style="list-style-type: none"> ● The earth cable mounting positions have been changed due to the addition of 4G93-MPI engine model.
EARTH	-	<ul style="list-style-type: none"> ● The earth mounting positions No. 2 and No. 11 for the F9Q2 engine model are the same as for F9Q1 engine model.

CIRCUIT DIAGRAMS

Main circuit	Subtitle	Reference page	Description of changes
CENTRALIZED JUNCTION	-	-	<ul style="list-style-type: none"> The contents for 4G93-MPI engine model are the same as for 4G1 engine model. The contents for F9Q2 engine model are the same as for F9Q1 engine model.
IGNITION SYSTEM	4G93 engine	4-2	<ul style="list-style-type: none"> New circuits have been established due to the addition of 4G93-MPI engine model.
CHARGING SYSTEM	4G93 engine	4-3	
ENGINE CONTROL SYSTEM	4G93 engine-M/T	4-4	
	4G93 engine-A/T	4-10	
COOLING SYSTEM	Petrol-powered vehicles	4-16	<ul style="list-style-type: none"> New circuits have been established due to the addition of 4G93-MPI engine model including with the contents for 4G1 engine model.
INVECS-II 4A/T	4G93 engine	4-18	<ul style="list-style-type: none"> New circuits have been established due to the addition of 4G93-MPI engine model.
MANUAL AIR CONDITIONER	Petrol-powered vehicles	4-26	<ul style="list-style-type: none"> New circuits have been established due to the addition of 4G93-MPI engine model including the contents for 4G1 engine model.
MULTI CENTER DISPLAY	Vehicles without navigation system	-	<ul style="list-style-type: none"> The applicable class of the harness between MULTI CENTER DISPLAY and ENGINE-ECU (B-30) terminal No. 62 has been changed from <4G1-M/T> to <PETROL-M/T>. The applicable class of the harness between MULTI CENTER DISPLAY and ENGINE-ECU (A-122) terminal No.14 has been changed from <F9Q1> to <DIESEL>.
	Vehicles with navigation system	-	
IMMOBILIZER SYSTEM	Petrol-powered vehicles	4-30	<ul style="list-style-type: none"> Contents for 4G93-MPI engine have been added.

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).
- (6) *1 : The title has been changed due to the addition of the 4G18 engine model.
- (7) *2 : The title has been changed due to the addition of the F9Q2 engine model.

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	Previous manual : Pub. No. EMXE99E1-A (Supplement)	Previous manual : Pub. No. EMXE99E1-B (Supplement)	Previous manual : Pub. No. EMXE99E1-C (Supplement)	This manual : Pub. No. EMXE99E1-D (Supplement)
J/B	-	I	P	P	P	P
J/C	-	I	R	P	P	P
CENTRALIZED JUNCTION	-	I	R	P	P	P
POWER DISTRIBUTION SYSTEM	-	I	D	N	N	N
	Petrol-powered vehicles	N	A	P	P	P
	Diesel-powered vehicles	N	A	P	P	P
STARTING SYSTEM	-	I	D	N	N	N
	Petrol-powered vehicles	N	A	R	P	P
	Diesel-powered vehicles	N	A	P	P	P
IGNITION SYSTEM	4G1 engine*1	I	R	R	P	P
	4G93 engine	I	R	P	D	A
CHARGING SYSTEM	4G1 engine*1	I	P	P	P	P
	4G93 engine	I	R	P	D	A
	F9Q engine*2	N	A	P	P	P

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	Previous manual : Pub. No. EMXE99E1-A (Supplement)	Previous manual : Pub. No. EMXE99E1-B (Supplement)	Previous manual : Pub. No. EMXE99E1-C (Supplement)	This manual : Pub. No. EMXE99E1-D (Supplement)
ENGINE CONTROL SYSTEM	4G13 engine	I	R	D	N	N
	4G1 engine-M/T	N	N	A	P	P
	4G1 engine-A/T	N	N	A	P	P
	4G93 engine	I	D	N	N	N
	4G93 engine-M/T	N	A	R	D	A
	4G93 engine-A/T	N	A	R	D	A
	F9Q engine* ²	N	A	P	P	P
COOLING SYSTEM	4G1 engine* ¹	I	P	R	P	D
	4G93 engine	I	R	P	D	N
	Petrol-powered vehicles	N	N	N	N	A
	F9Q engine* ²	N	A	P	P	P
INVECS-II 4A/T	-	N	A	D	N	N
	4G1 engine	N	N	A	R	P
	4G93 engine	N	N	A	D	A
HEADLAMP	L.H. drive vehicles without daytime running lamp	I	P	P	P	P
	R.H. drive vehicles	I	P	P	P	P
	Vehicles with daytime running lamp	I	P	P	P	P
HEADLAMP LEVELING SYSTEM	-	I	P	P	P	P
TAIL LAMP, POSITION LAMP, LICENSE PLATE LAMP AND LIGHTING MONITOR BUZZER	Vehicles without daytime running lamp	I	R	P	R	P
	Vehicles with daytime running lamp	I	R	P	R	P
FRONT FOG LAMP	Vehicles without daytime running lamp	I	R	P	R	P
	Vehicles with daytime running lamp	I	R	P	R	P

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	Previous manual : Pub. No. EMXE99E1-A (Supplement)	Previous manual : Pub. No. EMXE99E1-B (Supplement)	Previous manual : Pub. No. EMXE99E1-C (Supplement)	This manual : Pub. No. EMXE99E1-D (Supplement)
REAR FOG LAMP	Vehicles without daytime running lamp	I	R	P	R	P
	Vehicles with daytime running lamp	I	R	P	R	P
ROOM LAMP AND LUGGAGE COMPARTMENT LAMP	Vehicles without keyless entry system	I	D	N	N	N
	Vehicles with keyless entry system	I	D	N	N	N
ROOM LAMP, MAP LAMP AND LUGGAGE COMPARTMENT LAMP	Vehicles without keyless entry system	N	A	P	R	P
	Vehicles with keyless entry system	N	A	P	R	P
GLOVE BOX LAMP	-	I	P	D	N	N
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	-	I	R	P	R	P
STOP LAMP	-	I	R	P	R	P
BACK-UP LAMP	-	I	D	N	N	N
	Petrol-powered vehicles	N	A	R	R	P
	Diesel-powered vehicles	N	A	P	R	P
HORN	-	I	R	P	P	P
METER AND GAUGE	-	I	D	N	N	N
	Petrol-powered vehicles	N	A	R	R	P
	Diesel-powered vehicles	N	A	P	R	P
FUEL WARNING LAMP	-	I	R	P	P	P
OIL PRESSURE WARNING LAMP	-	I	R	R	P	P
BRAKE WARNING LAMP	-	I	P	P	P	P
WATER TEMPERATURE WARNING LAMP	-	N	A	P	P	P

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POWER WINDOWS	-	I	P	P	P	P
CENTRAL DOOR LOCKING SYSTEM	Vehicles without keyless entry system	I	P	P	R	P
	Vehicles with keyless entry system	I	P	P	R	P
HEATER	-	I	R	P	R	P
MANUAL AIR CONDITIONER	4G1 engine*1	I	R	R	R	D
	4G93 engine	I	R	P	D	N
	Petrol-powered vehicles	N	N	N	N	A
	F9Q engine*2	N	A	P	R	P
WINDSHIELD WIPER AND WASHER	-	I	P	P	P	P
REAR WIPER AND WASHER	-	I	P	P	R	P
HEADLAMP WASHER	-	I	P	P	P	P
DEFOGGER AND DOOR MIRROR HEATER	L.H. drive vehicles	I	P	P	R	P
	R.H. drive vehicles	I	P	P	R	P
REMOTE CONTROLLED MIRROR	-	I	R	P	R	P
CIGARETTE LIGHTER	-	I	P	P	R	P
MULTI CENTER DISPLAY	-	I	D	N	N	N
	Vehicles without navigation system	N	A	R	R	P
	Vehicles with navigation system	N	A	R	R	P
SUNROOF	-	I	P	P	R	P
HEATED SEAT	-	I	R	P	R	P
ABS	-	I	D	N	N	N
EBD AND ABS	-	N	A	P	P	P

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SUPPLEMENTAL RESTRAINT SYSTEM	-	I	P	P	R	P
IMMOBILIZER SYSTEM	-	I	D	N	N	N
	Diesel-powered vehicles	N	A	P	P	P
	Petrol-powered vehicles	N	A	R	P	R
RHEOSTAT	-	I	R	P	D	N
FUEL LINE HEATER	-	N	A	P	P	P