
OUTLINE OF CHANGES

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WIRING HARNESS CONFIGURATION DIAGRAMS

Connector symbol	Name	Reference page	Description of changes	
A	ENGINE COMPARTMENT	4G13 engine <L.H. drive vehicles>	2-2	<ul style="list-style-type: none"> • The mounting position for the horn (RH) connector (A-35) has been changed, and also the names of the following connectors have been changed. <ul style="list-style-type: none"> • The horn (RH) connector (A-35) has been changed to the horn (HI) connector (A-35). • The horn (LH) connector (A-30) has been changed to the horn (LO) connector (A-30). • The mounting position of the purge control solenoid valve connector (A-58) has been changed. • The following connectors have been added. <ul style="list-style-type: none"> • Oxygen sensor (Front) (A-55) • Camshaft position sensor (A-81) • Ignition coil 2 (A-89) • Ignition coil 1 (A-91) • Crank angle sensor (A-94) • Boost sensor (A-95) • Ignition failure sensor (A-96)
		4G13 engine <R.H. drive vehicles>	2-14	
		4G93 engine <L.H. drive vehicles>	2-6	
		4G93 engine <R.H. drive vehicles>	2-18	
		F9Q1 engine <L.H. drive vehicles>	2-10	
		F9Q1 engine <R.H. drive vehicles>	2-22	

Connector symbol	Name		Reference page	Description of changes
B	DASH PANEL	L.H. drive vehicles	2-26	<ul style="list-style-type: none"> • The following connectors have been added. <ul style="list-style-type: none"> • A/T relay (B-83) • Engine-ECU <4G93-M/T> or Engine-A/T-ECU <A/T> (B-84) • Engine-A/T-ECU <A/T> (B-85) • Engine-ECU <4G93-M/T> or Engine-A/T-ECU <A/T> (B-86) • Engine-ECU <4G93-M/T> or Engine-A/T-ECU <A/T> (B-87) • Diode (Engine control circuit) <F9Q1> (B-88) • Control wiring harness and body wiring harness combination <4G93, F9Q1> (B-89) • Oxygen sensor (Rear) <4G13> (B-90) • Shift switch assembly <A/T> (B-91) • Wide-open throttle switch <A/T> (B-92) • Accelerator pedal position sensor <F9Q1> (B-93) • Accelerator pedal position sensor <4G93> (B-94) • Stop lamp switch <F9Q1> (B-95) • Clutch switch <4G93> (B-96) • Clutch switch <F9Q1> (B-97)
		R.H. drive vehicles	2-28	
D	FLOOR AND ROOF	L.H. drive vehicles	2-30	<ul style="list-style-type: none"> • The following connectors have been added. <ul style="list-style-type: none"> • Map lamp <Without sunroof > (D-27) • Fuel gauge unit <F9Q1> (D-28) • A/T selector lever position illumination lamp (D-29)
		R.H. drive vehicles	2-32	
E	DOOR	L.H. drive vehicles	2-34	<ul style="list-style-type: none"> • The following connectors have been added. <ul style="list-style-type: none"> • Tweeter (LH) (E-23) • Tweeter (RH) (E-24)
		R.H. drive vehicles	2-35	

SINGLE PART INSTALLATION POSITION

Location changes	Reference page	Description of changes
RELAY	3-2	<ul style="list-style-type: none"> • An A/T relay has been added. • The following relay mounting positions have been added to correspond to the addition of vehicles with F9Q1 engine. <ul style="list-style-type: none"> • Additional heater relay 1 • Additional heater relay 2 • Condenser fan relay (LO) • Fuel line heater relay • Glow plug relay • Main relay <F9Q1>
ECU	3-3	<ul style="list-style-type: none"> • An engine-A/T-ECU has been added. • An engine-ECU <F9Q1> has been added.

Location changes	Reference page	Description of changes
SENSOR	3-4	<ul style="list-style-type: none"> ● The following sensor mounting positions have been changed in vehicles with 4G13 engine. <ul style="list-style-type: none"> ● Oxygen sensor (Front) ● Oxygen sensor (Rear) ● The following sensor mounting positions have been added to vehicles with 4G13 engine. <ul style="list-style-type: none"> ● Boost sensor ● Camshaft position sensor ● Crank angle sensor ● Ignition failure sensor ● The following sensor mounting positions have been changed in vehicles with 4G93 engine. <ul style="list-style-type: none"> ● Accelerator pedal position sensor ● Fuel pressure sensor ● The following sensor mounting positions have been added to vehicles with 4G93 engine. <ul style="list-style-type: none"> ● Ignition failure sensor ● Oxygen sensor (Front) ● Oxygen sensor (Rear) ● The following sensor mounting positions have been added to correspond to the addition of vehicles with F9Q1 engine. <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 ● The following sensor mounting positions have been added to correspond to the addition of INVECS-II 4A/T vehicles. <ul style="list-style-type: none"> ● A/T control solenoid valve assembly (incorporating A/T fluid temperature sensor) ● Input shaft speed sensor ● Output shaft speed sensor
SOLENOID AND SOLENOID VALVE	3-7	<ul style="list-style-type: none"> ● The mounting position for the purge control solenoid valve has been changed in vehicles with 4G13 engine. ● The following solenoid and solenoid valve mounting positions have been added to correspond to the addition of vehicles with F9Q1 engine. <ul style="list-style-type: none"> ● Throttle solenoid ● Turbocharger solenoid ● An A/T control solenoid valve assembly has been added.
DIODE	3-8	<ul style="list-style-type: none"> ● A mounting position for the diode (for engine control system circuit) has been added to correspond to the addition of vehicles with F9Q1 engine.
EARTH CABLE	3-8	<ul style="list-style-type: none"> ● The mounting position for the earth cable has been changed in vehicles with 4G93 engine.
EARTH	3-9	<ul style="list-style-type: none"> ● The mounting positions for earths No. 2 and 11 have been changed to correspond to the addition of vehicles with F9Q1 engine.

CIRCUIT DIAGRAMS

Main title	Sub title	Reference Page	Description of changes
J/C	–	4-4	<ul style="list-style-type: none"> The connection circuit to J/C (1) has been changed. Circuit names have been added and changed.
CENTRALIZED JUNCTION	–	4-6	<ul style="list-style-type: none"> Contents for vehicles with INVECS-II 4A/T and F9Q1 engine have been added.
POWER DISTRIBUTION SYSTEM	Petrol-powered vehicles	4-10	<ul style="list-style-type: none"> The circuit has been changed to correspond to the addition of vehicles with INVECS-II 4A/T.
	Diesel-powered vehicles	4-18	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
STARTING SYSTEM	Petrol-powered vehicles	4-26	<ul style="list-style-type: none"> The circuit has been changed to correspond to the addition of vehicles with INVECS-II 4A/T.
	Diesel-powered vehicles	4-27	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
IGNITION SYSTEM	4G13 engine	4-30	<ul style="list-style-type: none"> The circuit has been changed to correspond to the addition of an ignition failure sensor.
	4G93 engine	4-32	
CHARGING SYSTEM	4G93 engine	4-34	<ul style="list-style-type: none"> The engine-ECU has been changed. An engine-A/T-ECU has been added.
	F9Q1 engine	4-35	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
ENGINE CONTROL SYSTEM	4G13 engine	4-38	<ul style="list-style-type: none"> The intake air temperature sensor and vacuum sensor have been abolished and a boost sensor has been added. The distributor assembly has been abolished and a crank angle sensor has been added. A camshaft position sensor has been added. The ignition timing adjustment connector has been abolished.
	4G93 engine-M/T	4-44	<ul style="list-style-type: none"> The circuit has been divided to correspond to the adoption of vehicles with INVECS-II 4A/T. The circuits have been changed to correspond to the following changes. <ul style="list-style-type: none"> The engine-ECU has been changed. <M/T> An oxygen sensor (rear) has been added. A clutch switch has been added. The engine speed detection connector has been abolished.
	4G93 engine-A/T	4-56	
	F9Q1 engine	4-68	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
COOLING SYSTEM	4G93 engine	4-76	<ul style="list-style-type: none"> The circuits have been changed to correspond to the addition of vehicles with INVECS-II 4A/T and changes to the engine-ECU.
	F9Q1 engine	4-78	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
INVECS-II 4A/T	–	4-80	<ul style="list-style-type: none"> New circuits have been established to correspond to the addition of vehicles with INVECS-II 4A/T.

Main title	Sub title	Reference Page	Description of changes
TAIL LAMP, POSITION LAMP, LICENSE PLATE LAMP AND LIGHTING MONITOR BUZZER	Vehicles without daytime running lamp	4-88	<ul style="list-style-type: none"> The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
	Vehicles with daytime running lamp	4-92	
FRONT FOG LAMP	Vehicles without daytime running lamp	4-96	
	Vehicles with daytime running lamp	4-98	
REAR FOG LAMP	Vehicles without daytime running lamp	4-100	
	Vehicles with daytime running lamp	4-104	
ROOM LAMP, MAP LAMP AND LUGGAGE COMPARTMENT LAMP	Vehicles without keyless entry system	4-108	<ul style="list-style-type: none"> The circuits have been changed to correspond to the adoption of a map lamp circuit.
	Vehicles with keyless entry system	4-110	
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	–	4-112	<ul style="list-style-type: none"> The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
STOP LAMP	–	4-116	<ul style="list-style-type: none"> The circuit has been changed to correspond to the addition of vehicles with F9Q1 engine.
BACK-UP LAMP	Petrol-powered vehicles	4-117	<ul style="list-style-type: none"> The circuit has been divided to correspond to the addition of vehicles with F9Q1 engine. The circuit has been changed to correspond to the addition of vehicles with INVECS-II 4A/T. <Petrol vehicles>
	Diesel-powered vehicles	4-118	
HORN	–	4-119	<ul style="list-style-type: none"> The names of the horn (LH) and horn (RH) have been changed to the horn (LO) and horn (HI) respectively. Contents for vehicles without SRS air bags have been deleted to correspond to the adoption of SRS air bags in all vehicles.
METER AND GAUGE	Petrol-powered vehicles	4-120	<ul style="list-style-type: none"> The circuit has been divided to correspond to the addition of vehicles with F9Q1 engine. The following contents have been changed for petrol vehicles. <ul style="list-style-type: none"> The ignition system has been changed. The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
	Diesel-powered vehicles	4-122	

Main title	Sub title	Reference Page	Description of changes
FUEL WARNING LAMP	–	4-126	<ul style="list-style-type: none"> The circuit has been changed to correspond to the addition of vehicles with F9Q1 engine.
OIL PRESSURE WARNING LAMP	–	4-126	
WATER TEMPERATURE WARNING LAMP	–	4-126	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.
HEATER	–	4-130	<ul style="list-style-type: none"> The shape of the outside/inside air selection damper control motor connector has been changed. The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
MANUAL AIR CONDITIONER	4G13 engine	4-132	
MANUAL AIR CONDITIONER	4G93 engine	4-138	<ul style="list-style-type: none"> The shape of the outside/inside air selection damper control motor connector has been changed. The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles. The engine-ECU <M/T> has been changed. An engine-A/T-ECU has been added.
	F9Q1 engine	4-142	
REMOTE CONTROLLED MIRROR	–	4-146	<ul style="list-style-type: none"> The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
MULTI CENTER DISPLAY	Vehicles without navigation system	4-148	<ul style="list-style-type: none"> The circuit has been divided to correspond to the addition of vehicles with INVECS-II 4A/T and F9Q1 engine. A tweeter has been added. The engine-ECU <M/T> has been changed. An engine-A/T-ECU has been added.
	Vehicles with navigation system	4-154	
HEATED SEAT	–	4-160	<ul style="list-style-type: none"> The number of terminals in J/C (1) has been changed. Contents for vehicles without rheostat have been deleted to correspond to the adoption of a rheostat in all vehicles.
EBD AND ABS	–	4-162	<ul style="list-style-type: none"> The circuits have been changed to correspond to the adoption of EBD.
IMMOBILIZER SYSTEM	Petrol-powered vehicles	4-164	<ul style="list-style-type: none"> The circuit has been divided to correspond to the addition of vehicles with F9Q1 engine. The following contents have been changed for petrol vehicles. <ul style="list-style-type: none"> The engine-ECU has been changed. An engine-A/T-ECU has been added.
	Diesel-powered vehicles	4-166	
RHEOSTAT	–	4-168	<ul style="list-style-type: none"> The number of terminals in J/C (1) has been changed.
FUEL LINE HEATER	–	4-170	<ul style="list-style-type: none"> Circuits have been added to correspond to the addition of vehicles with F9Q1 engine.

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).

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	This manual : Pub. No. EMXE99E1-A (Supplement)
J/B	–	I	P
J/C	–	I	R
CENTRALIZED JUNCTION	–	I	R
POWER DISTRIBUTION SYSTEM	–	I	D
	Petrol-powered vehicles	N	A
	Diesel-powered vehicles	N	A
STARTING SYSTEM	–	I	D
	Petrol-powered vehicles	N	A
	Diesel-powered vehicles	N	A
IGNITION SYSTEM	4G13 engine	I	R
	4G93 engine	I	R
CHARGING SYSTEM	4G13 engine	I	P
	4G93 engine	I	R
	F9Q1 engine	N	A
ENGINE CONTROL SYSTEM	4G13 engine	I	R
	4G93 engine	I	D
	4G93 engine-M/T	N	A
	4G93 engine-A/T	N	A
	F9Q1 engine	N	A
COOLING SYSTEM	4G13 engine	I	P
	4G93 engine	I	R
	F9Q1 engine	N	A
INVECS-II 4A/T	–	N	A

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	This manual : Pub. No. EMXE99E1-A (Supplement)
HEADLAMP	L.H. drive vehicles without daytime running lamp	I	P
	R.H. drive vehicles	I	P
	Vehicles with daytime running lamp	I	P
HEADLAMP LEVELING SYSTEM	–	I	P
TAIL LAMP, POSITION LAMP, LICENSE PLATE LAMP AND LIGHTING MONITOR BUZZER	Vehicles without daytime running lamp	I	R
	Vehicles with daytime running lamp	I	R
FRONT FOG LAMP	Vehicles without daytime running lamp	I	R
	Vehicles with daytime running lamp	I	R
REAR FOG LAMP	Vehicles without daytime running lamp	I	R
	Vehicles with daytime running lamp	I	R
ROOM LAMP AND LUGGAGE COMPARTMENT LAMP	Vehicles without keyless entry system	I	D
	Vehicles with keyless entry system	I	D
ROOM LAMP, MAP LAMP AND LUGGAGE COMPARTMENT LAMP	Vehicles without keyless entry system	N	A
	Vehicles with keyless entry system	N	A
GLOVE BOX LAMP	–	I	P
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	–	I	R
STOP LAMP	–	I	R
BACK-UP LAMP	–	I	D
	Petrol-powered vehicles	N	A
	Diesel-powered vehicles	N	A
HORN	–	I	R
METER AND GAUGE	–	I	D
	Petrol-powered vehicles	N	A
	Diesel-powered vehicles	N	A
FUEL WARNING LAMP	–	I	R
OIL PRESSURE WARNING LAMP	–	I	R
BRAKE WARNING LAMP	–	I	P
WATER TEMPERATURE WARNING LAMP	–	N	A

Main circuit	Circuit classifications	Previous manual : Pub. No. EMXE99E1 (Basic)	This manual : Pub. No. EMXE99E1-A (Supplement)
POWER WINDOWS	–	I	P
CENTRAL DOOR LOCKING SYSTEM	Vehicles without keyless entry system	I	P
	Vehicles with keyless entry system	I	P
HEATER	–	I	R
MANUAL AIR CONDITIONER	4G13 engine	I	R
	4G93 engine	I	R
	F9Q1 engine	N	A
WINDSHIELD WIPER AND WASHER	–	I	P
REAR WIPER AND WASHER	–	I	P
HEADLAMP WASHER	–	I	P
DEFOGGER AND DOOR MIRROR HEATER	L.H. drive vehicles	I	P
	R.H. drive vehicles	I	P
REMOTE CONTROLLED MIRROR	–	I	R
CIGARETTE LIGHTER	–	I	P
MULTI CENTER DISPLAY	–	I	D
	Vehicles without navigation system	N	A
	Vehicles with navigation system	N	A
SUNROOF	–	I	P
HEATED SEAT	–	I	R
ABS	–	I	D
EBD AND ABS	–	N	A
SUPPLEMENTAL RESTRAINT SYSTEM	–	I	P
IMMOBILIZER SYSTEM	–	I	D
	Diesel-powered vehicles	N	A
	Petrol-powered vehicles	N	A
RHEOSTAT	–	I	R
FUEL LINE HEATER	–	N	A