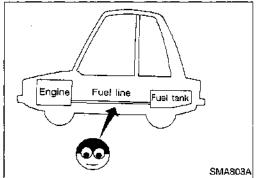
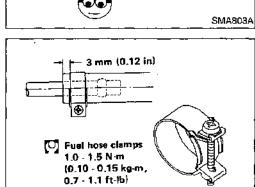
QUICK REFERENCE INDEX

GENERAL INFORMATION			
JAINTENANCE	MA		
NGINE MECHANICAL	EM		
NGINE LUBRICATION AND COOLING SYSTEMS	LC		
NGINE FUEL AND EMISSION CONTROL SYSTEM	EF & EC		
ACCELERATOR CONTROL, FUEL AND EXHAUST SYSTEMS———	FE		
AUTOMATIC TRANSAXLE	AT		
RONT AXLE AND FRONT SUSPENSION	FA		
REAR AXLE AND REAR SUSPENSION	RA		
IRAKE SYSTEM ————————————————————————————————————	BR		
TEERING SYSTEM	ST		
ЗОДУ —	BF		
IEATER AND AIR CONDITIONING	НА		
LECTRICAL SYSTEM	EL		
NDEX	IDX		

NISSAN QUEST MODEL V40 SERIES





Checking Fuel Lines

Inspect fuel lines and tank for improper attachment and for leaks, cracks, damage, loose connections, chafing and deterio-

If necessary, repair or replace damaged parts.

MΑ

EM

[.C

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber hose clamps.

Ensure that screw does not contact adjacent parts.

FE

AT

酗

Changing Fuel Filter

WARNING:

SMA804A

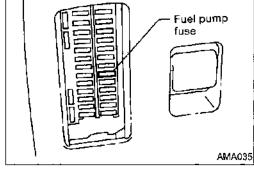
Before removing fuel filter, release fuel pressure from fuel line to eliminate danger.

88

ST.

- Remove fuel pump fuse. Start engine.
- After engine stalls, crank engine two or three times to make sure that fuel pressure is released.

Turn ignition switch "OFF".

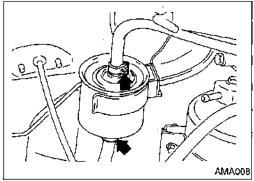


- Loosen fuel hose clamps.
- Replace fuel filter.
- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.

Fuel Hose Clamps:

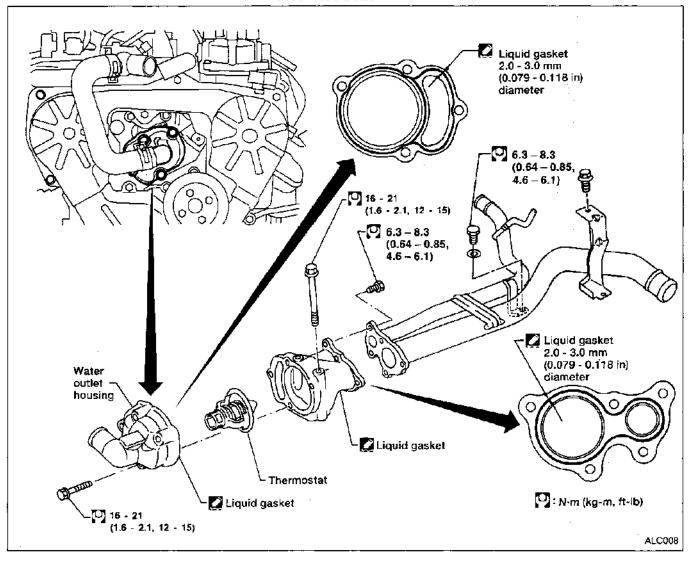
[]: 1.0 - 1.5 (0.102 - 0.153 kg-m, 0.74 - 1.11 ft-lb)

Install fuel pump fuse.



MA-13

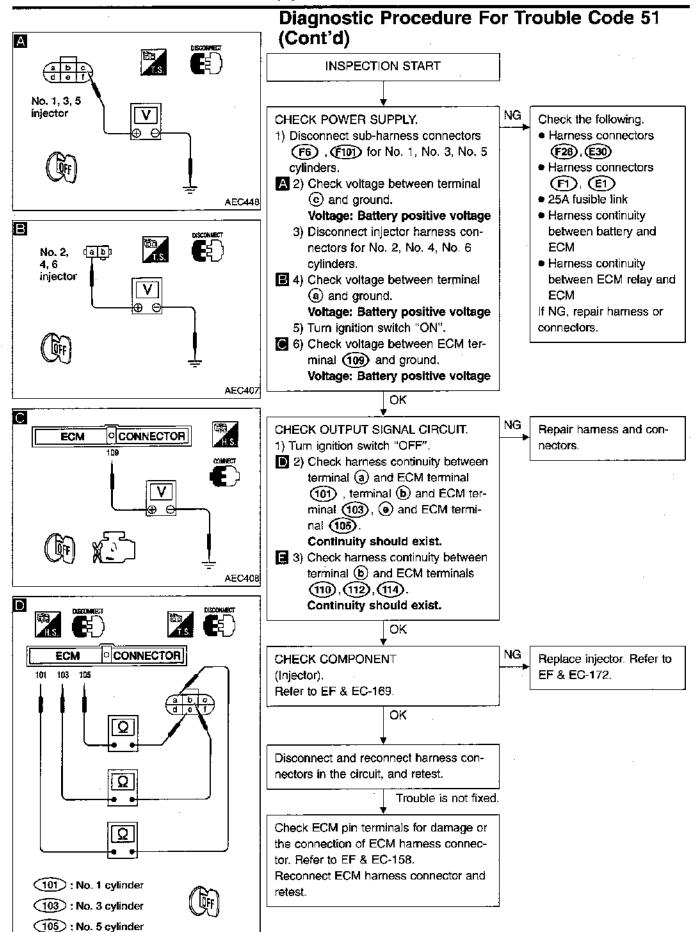
Thermostat



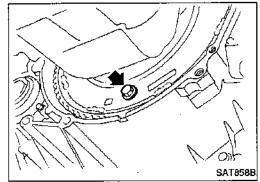
REMOVAL AND INSTALLATION

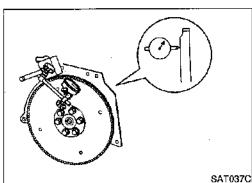
- 1. Drain engine coolant. Refer to MA section ("Draining Engine Coolant", "ENGINE MAINTENANCE").
- 2. Remove water hose from water outlet housing.
- 3. Remove water outlet housing, then take out thermostat.

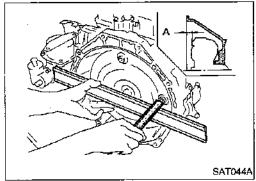
TROUBLE DIAGNOSES

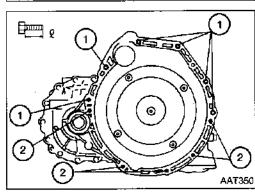


AEC449











Removal

Disconnect drive shafts. Refer to FA section ("Removal", "FRONT AXLE — Drive Shaft").

Remove bolts securing torque converter to drive plate.

Remove those bolts by turning crankshaft.

Immediately after transaxle is disconnected, inscribe matching marks on torque converter and drive plate so that they may be reinstalled in their original positions.

Plug up openings such as oil charging pipe, etc.

Installation

Drive plate runout

Maximum allowable runout: Refer to EM section ("Inspection", "CYLINDER BLOCK").

If this runout is out of allowance, replace drive plate and ring gear.

When connecting torque converter to transaxle, measure distance "A" to be certain that they are correctly assembled. Distance "A":

14 mm (0.55 in) or more

Install converter to drive plate.

After converter is installed, rotate crankshaft several turns and check to be sure that transaxle rotates freely without binding.

Tighten bolt securing transaxle.

Bolt No.	Tightening torque N-m (kg-m, ft-lb)	t mm (in)
1	39 - 49 (4.0 - 5.0, 29 - 36)	60 (2.36)
2	30 - 40 (3.1 - 4.1, 22 - 30)	25 (0.98)

Reinstall any part removed.

Check fluid level in transaxle.

Move selector lever through all positions to be sure that transaxle operates correctly.

With parking brake applied, rotate engine at idling. Move selector lever through "N" to "D", to "2", to "1" and to "R" positions. A slight shock should be felt by hand gripping selector each time transaxle is shifted.

Perform road test — See "Road Test". Refer to AT-23.

MA

到低

LC

35 & ΞC

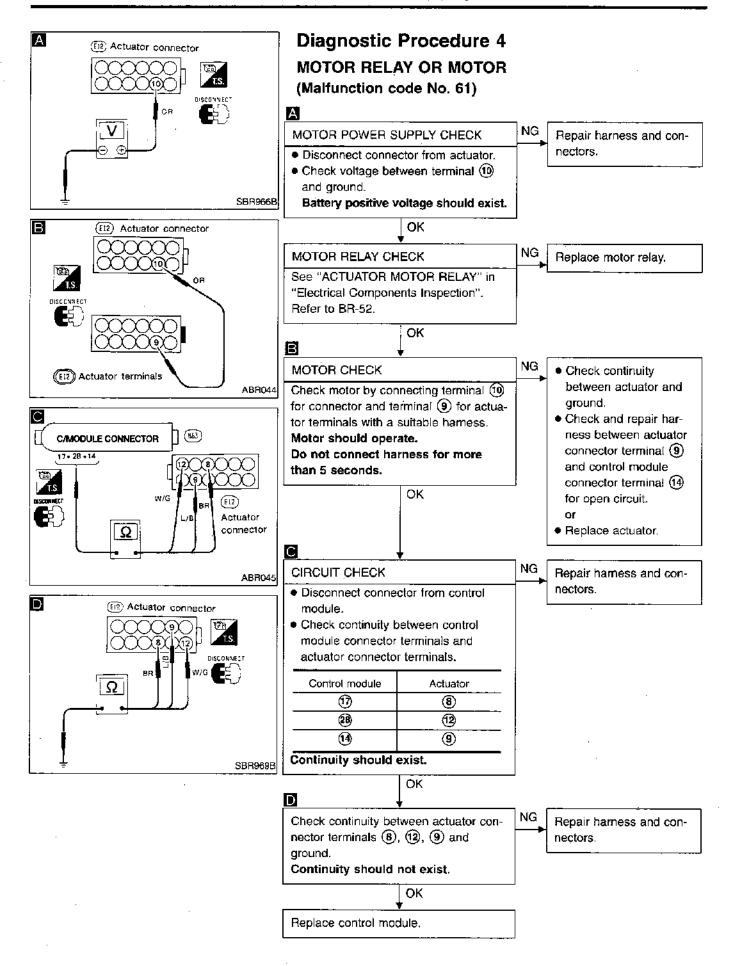
RA

ST

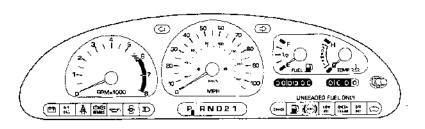
MA

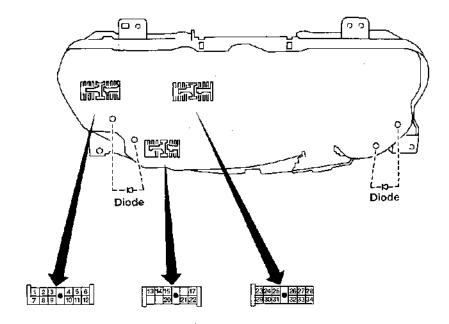
١,

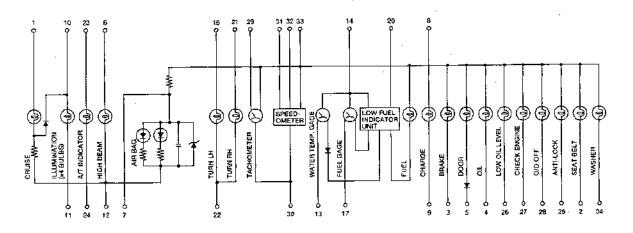
AT-107



Combination Meter







Œ

MA

国网

lC

ef &

ef & EC

FE

AT

FA

RA

BR

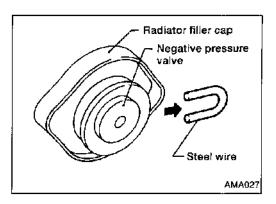
ST

BF

KA

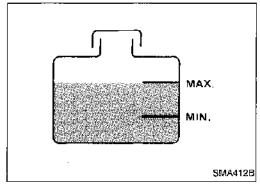
EL

ENGINE MAINTENANCE



Changing Engine Coolant (Cont'd)

- 29. Stop engine.
- 30. Add coolant mixture to reservoir tank to MAX level line. If coolant overflow occurs from reservoir, decrease engine rpm or stop engine.
- 31. Cool down engine.
- Cool down with a fan to reduce time.
- 32. Remove radiator filler cap.
- Refill radiator as necessary.
- Remove wire, reinstall radiator filler cap.
- Remove hose from heater pipe, quickly reinstall cap and clamp.
- 35. Refili reservoir as necessary.
- 36. Reinstall coolant reservoir cap.
- Clean excess coolant from engine block.

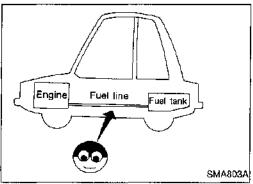


Coolant capacity (With reservoir tank):

Unit: /' (US qt, [mp qt)	
10.7 (11-3/8, 9-3/8)	

12.1 (12-3/4, 10-5/8)

[Reservoir tank capacity (for MAX level): 0.7 ((3/4 US qt, 5/8 Imp qt)]



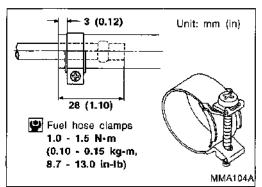
Checking Fuel Lines

Without rear heater

With rear heater

Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, chafing or deterioration.

If necessary, repair or replace.



Changing Fuel Filter

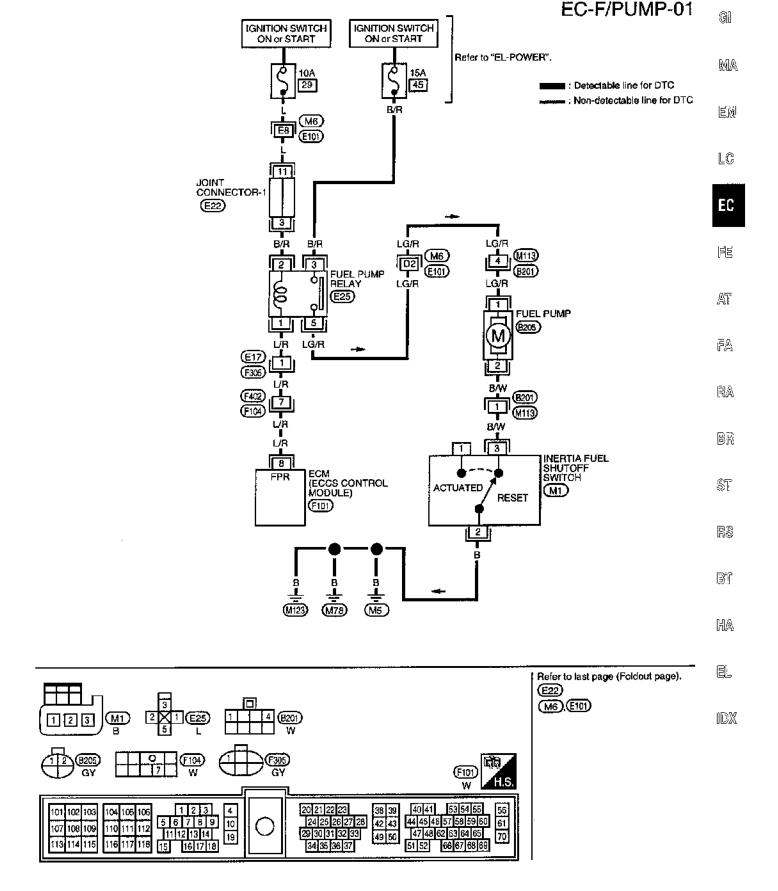
CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

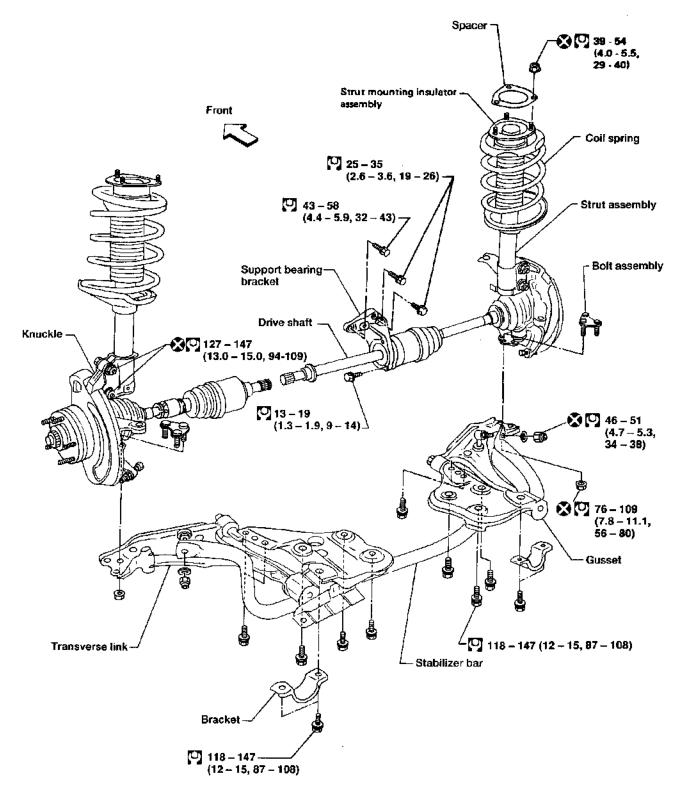
Ensure that screw does not contact adjacent parts.

TROUBLE DIAGNOSIS FOR NON-DETECTABLE ITEMS

Fuel Pump (Cont'd)



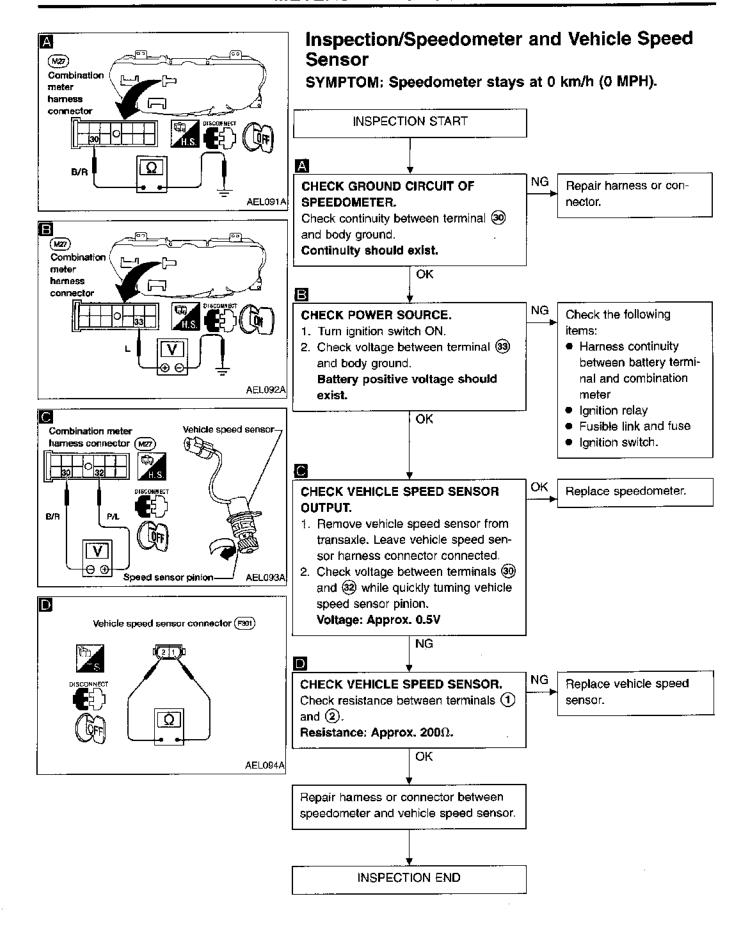
SEC. 391-400-401



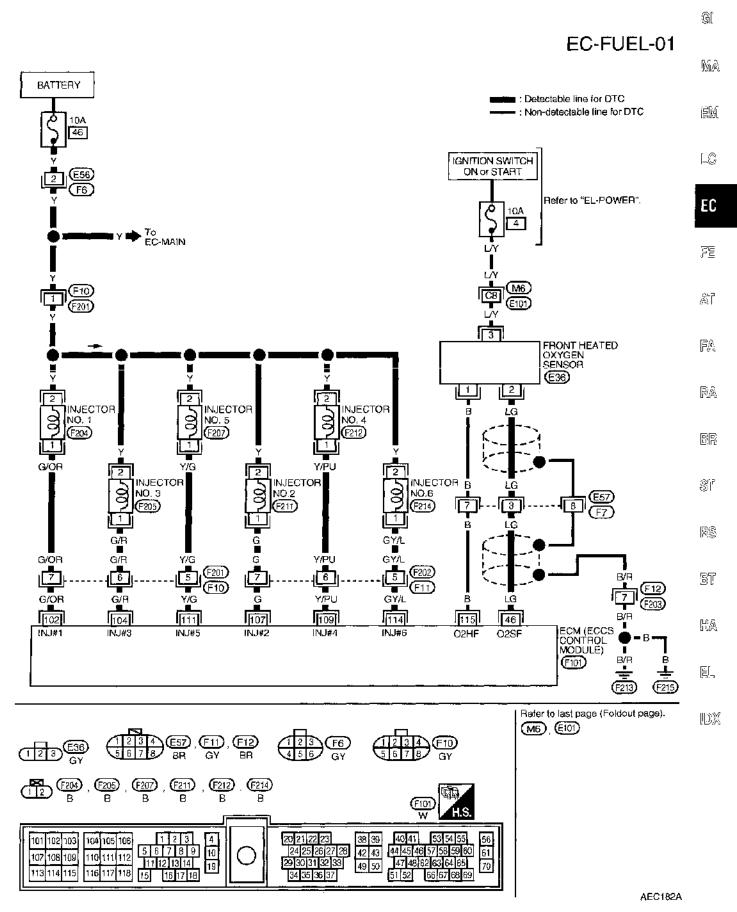
When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

: N·m (kg-m, ft-lb)



Fuel Injection System Function (Lean side) (Cont'd)

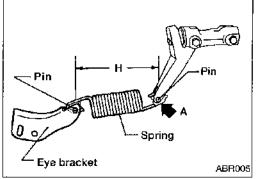


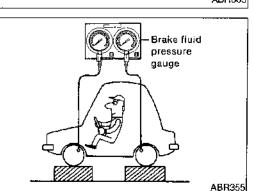
Dual Load Sensing Valve

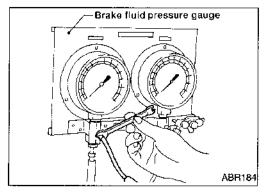
INSPECTION

CAUTION:

- Carefully monitor brake fluid level at master cylinder.
- Use new brake fluid "DOT 3".
- Be careful not to splash brake fluid on painted areas; it may cause paint damage. If brake fluid is splashed on painted areas, wash it away with water immediately.
- Depress pedal slowly when raising front brake pressure.
- Check rear brake pressure 2 seconds after front brake pressure reaches specified value.
- For models with ABS disconnect harness connectors from ABS actuator relay before checking.







- 1. Check length "H" in unladen* condition.
 - *: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- a. Have one person sit on the rear end. Then have the person slowly get off the vehicle. This is necessary to stabilize suspension deflection.
- b. Measure length "H".

Length "H":

Approx. $160.3 \pm 1.5 \text{ mm} (6.311 \pm 0.059 \text{ in})$

- Adjust spring length by moving eye bracket while pushing lever toward A.
- 2. Connect tool to air bleeders of front and rear brakes on either LH or RH side.

3. Bleed air from Tool.

BR-8 716

POWER WINDOW

System Description (Cont'd)

Power and ground are supplied to the front power window motor LH in the same manner as outlined in "Window down".

FRONT DOOR RH

NOTE:

Figures in parentheses () refer to terminal Nos. arranged in order when the UP or DOWN section of power window switch is pressed.

Operation by main switch

Power is supplied:

- from main power window and door lock/unlock switch terminal (3, 4)
- to front power window switch RH terminal (4), (3).

Subsequent operations are the same as those outlined under "Operation by front power window switch RH".

Operation by front power window switch RH Power is supplied:

- from front power window switch RH terminal 6
- through front power window switch RH terminal (2, 1)
- to front power window motor RH terminal (2), 1.

Ground is supplied:

- to front power window motor RH terminal (1), (2)
- through front power window switch RH terminal (①, ②)
- to front power window switch RH terminal (4), (3)
- through main power window and door lock/unlock switch terminal (13), (4)
- to main power window and door lock/unlock switch terminals (§) and (§)
- through body grounds M5, M78 and M123.

Lock Feature

If the main power window and door lock/unlock switch window lockout switch is in the LOCK position, the front power window switch RH ground circuit is interrupted. When this happens, the front power window motor RH cannot be operated by the front power window switch RH or the main power window and door lock/unlock switch.

REAR POWER VENT WINDOW LH

When the rear power vent window switch LEFT VENT is pressed in the OPEN position, power is supplied:

- through rear power vent window switch terminal 6
- to rear power vent window motor LH terminal ①.

Ground is supplied:

- through rear power vent window switch terminal (5)
- to rear power vent window motor LH terminal ②.

With power and ground supplied, the rear power vent window motor LH will open the vent window until the switch is released.

When the rear power vent window switch LEFT VENT is pressed in the CLOSE position, power is supplied:

- through rear power vent window switch terminal (5)
- to rear power vent window motor LH terminal ②.

Ground is supplied:

- through rear power vent window switch terminal 6
- to rear power vent window motor LH terminal ①.

With power and ground supplied, the rear power vent window motor will close the vent window until the switch is released.

REAR POWER VENT WINDOW RH

When the rear power vent window switch RIGHT VENT is pressed in the OPEN position, power is supplied:

- through rear power vent window switch terminal ②
- to rear power vent window motor RH terminal (1).

1253

G

ΞW

LC

EC

FE

AT.

凮

RA

ßR

ŜŢ

BT

HA

ΕL

(D)X

EL-179

TROUBLE DIAGNOSIS — General Description

ECM Terminals and Reference Value (Cont'd)

TER- MINAL	WIRE	ITEM	CONDITION	DATA (DC Voltage)
NO	W/G	ECCS relay (Self-shut-	Engine is running. Ignition switch "OFF" For a few seconds after turning ignition switch "OFF"	0 - 1V
	off)	Ignition switch "OFF" A few seconds passed after turning ignition switch "OFF"	BATTERY VOLTAGE (11 - 14V)	
5	G/B	EVAP canister purge	Engine is running.	
6	L	volume control valve	Idle speed	0 - 0.4V
7	G/B	A/T check signal	Ignition switch "ON" Engine is running.	0 - 3.0V
8 L/R	L/R	L/R Fuel pump relay	Ignition switch "ON" For 5 seconds after turning ignition switch "ON" Engine is running.	0.7 - 1.1V
			Ignition switch "ON" More than 5 seconds after turning Ignition switch "ON"	BATTERY VOLTAGE (11 - 14V)
9	L/B	Air conditioner pressure switch	Ignition switch "ON".	Approximately 5V
10	В	ECCS ground	Engine is running.	Engine ground
40	DDAM		Engine Is running. Cooling fan is not operating.	BATTERY VOLTAGE (11 - 14V)
13	13 BR/W Cooling fan relay (High	Cooling fan felay (High)	Engine is running. Cooling fan (High) is operating.	0.7 - 1.1V
44	4 L/OR Cooling fan relay (Low)	Engine is running. Cooling fan is not operating.	BATTERY VOLTAGE (11 - 14V)	
14 L/OF		Cooling fan relay (Low) Engine is running. Cooling fan (Low) is operating.		0.3 - 0.8V
15 LG	LG	G Air conditioner relay	Engine is running. Both A/C switch and blower switch are "ON"*	0 - 2V
			Engine is running. A/C switch is "OFF"	BATTERY VOLTAGE (11 - 14V)
16	G/W	EVAP canister purge	Engine is running.	BATTERY VOLTAGE
17	R/G	volume control valve	Idle speed	(11 - 14V)
			Ignition switch "ON"	Approximately 0.7V
18 Pt	PU	Malfunction indicator lamp	Engine is running. Idle speed	BATTERY VOLTAGE (11 - 14V)

^{*:} Any mode except "OFF", ambient air temperature above 10°C (50°F).