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•		REFERENCE CHART		FE
AUTOMATIC TRANSAXLE CONTROL SYST ABS	EM, SHIFT	LOCK SYSTEM	AT SECTION	GL
				MT
				AT
				FA
				RA
				BR
				ST
				RS
				BT
				HA
				EL



Supplemental Restraint System "AIR BAG"

The Supplemental Restraint System "Air Bag", used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), a diagnosis sensor unit, warning lamp, wiring harness and spiral cable. Information necessary to service the system safely is included in the **RS section** of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- All SRS electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS "Air Bag".

EL-2 1044

HARNESS CONNECTOR

Description

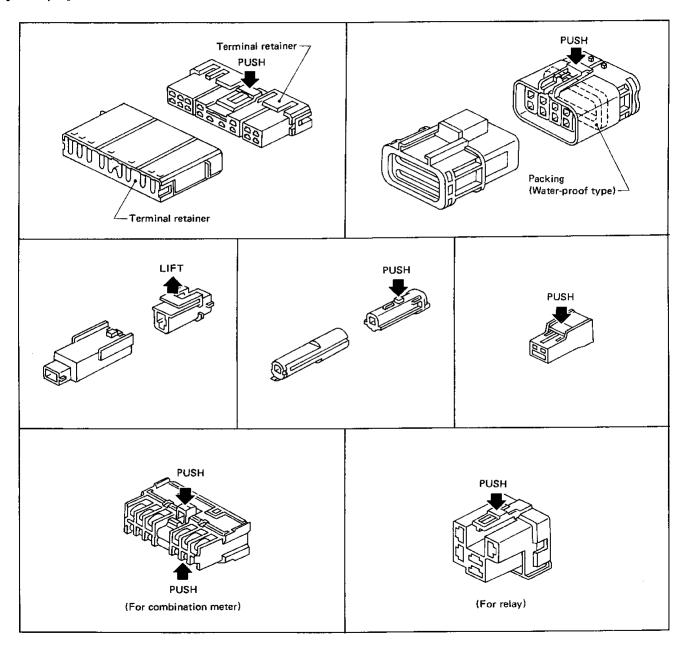
HARNESS CONNECTOR

- All harness connectors have been modified to prevent accidental looseness or disconnection.
- The connector can be disconnected by pushing or lifting the locking section.

CAUTION:

Do not pull the harness when disconnecting the connector.

[Example]



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CL

MT

AT

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RA

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RS

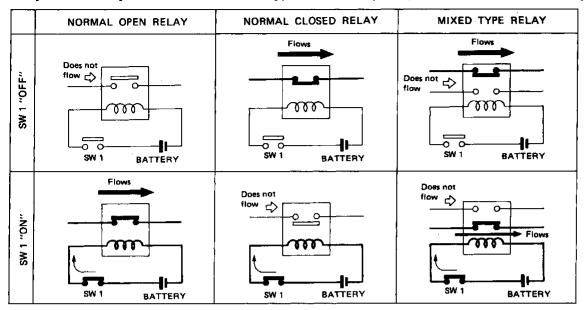
BT

MA

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

 1M

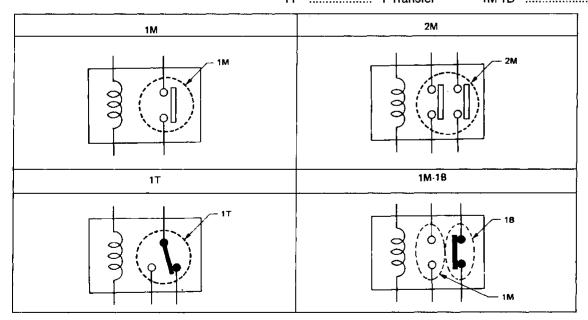
 1 Make
 2M

 2 Make

 1T

 1 Transfer
 1M·1B

 1 Make 1 Break



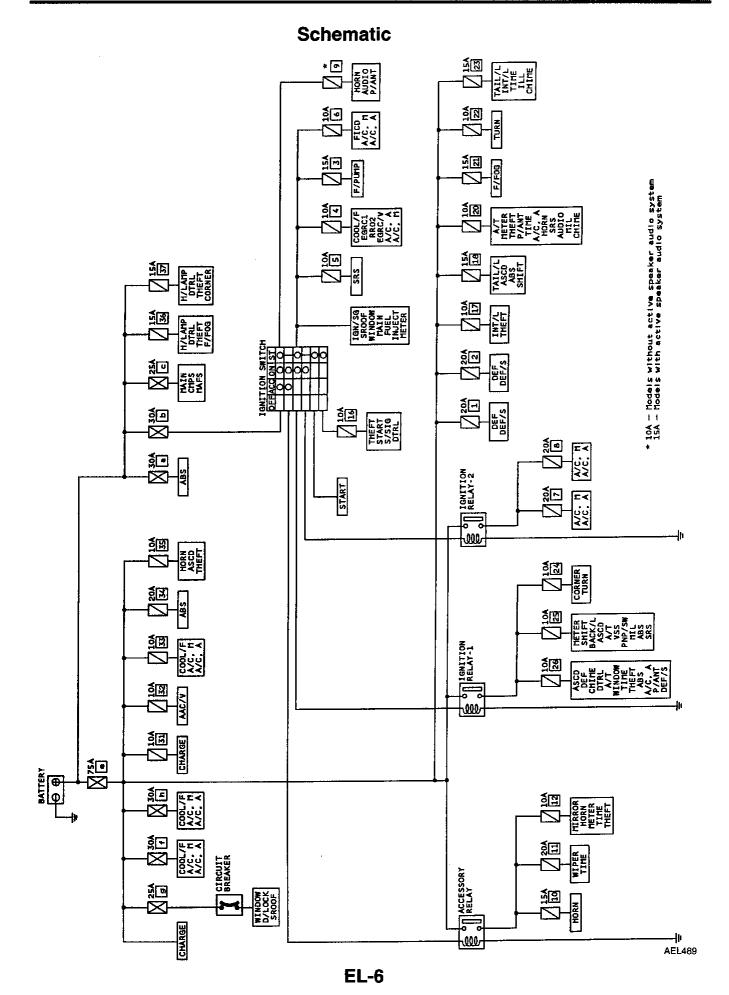
SEL882H

STANDARDIZED RELAY

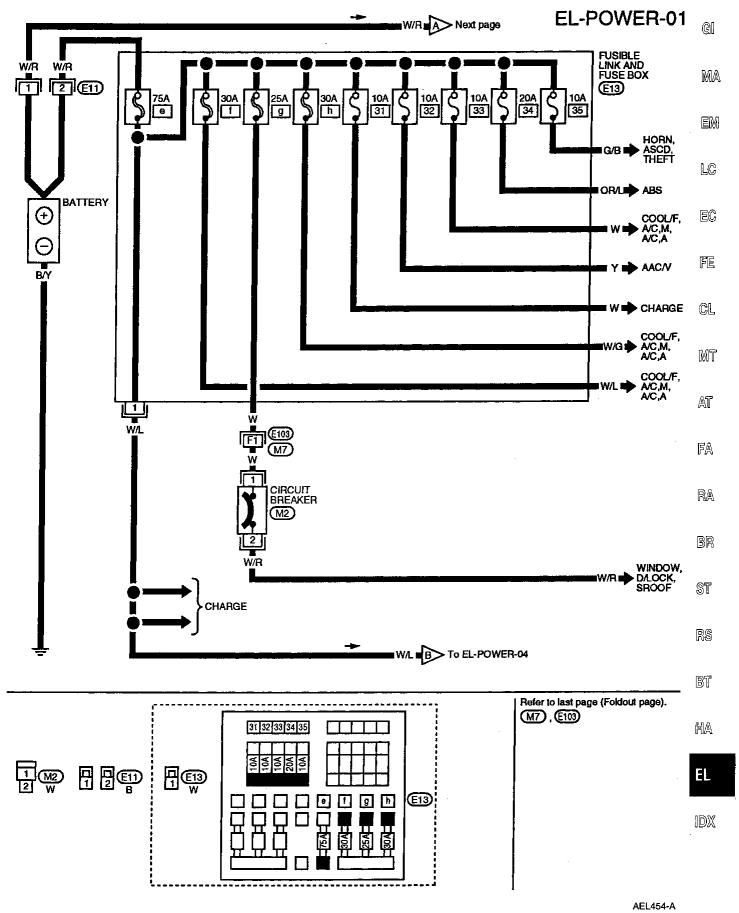
Description (Cont'd)

		Description (Col	it a)		
Туре	Outer view	Circuit	Connector symbol and connection	Case color	_
11	2 1 3 5 4	254	00 2 1 5 3 4	BLACK	GI MA EM LC
1M	5 3	1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 1 2 5 3	BLUE, GREEN or YELLOW	EC FE CL MT
2M	2 1 7 5 6 3	163 999 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BROWN	at Fa Ra Br
1M·1B	2 1 6 3 7 4	163 80 274	00 00 2 1 6 7 3	GRAY	ST RS BT
1·M	3	(1) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	5 1 3	BLUE	HA EL IDX

AEL227

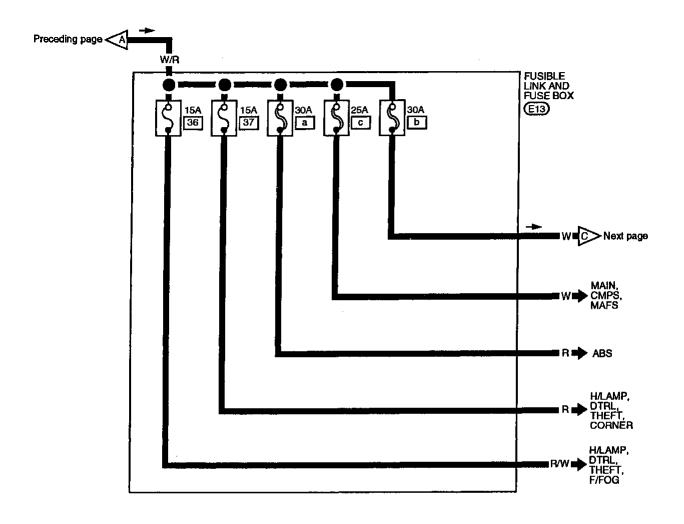


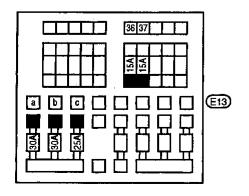
Wiring Diagram -POWER-



Wiring Diagram -POWER- (Cont'd)

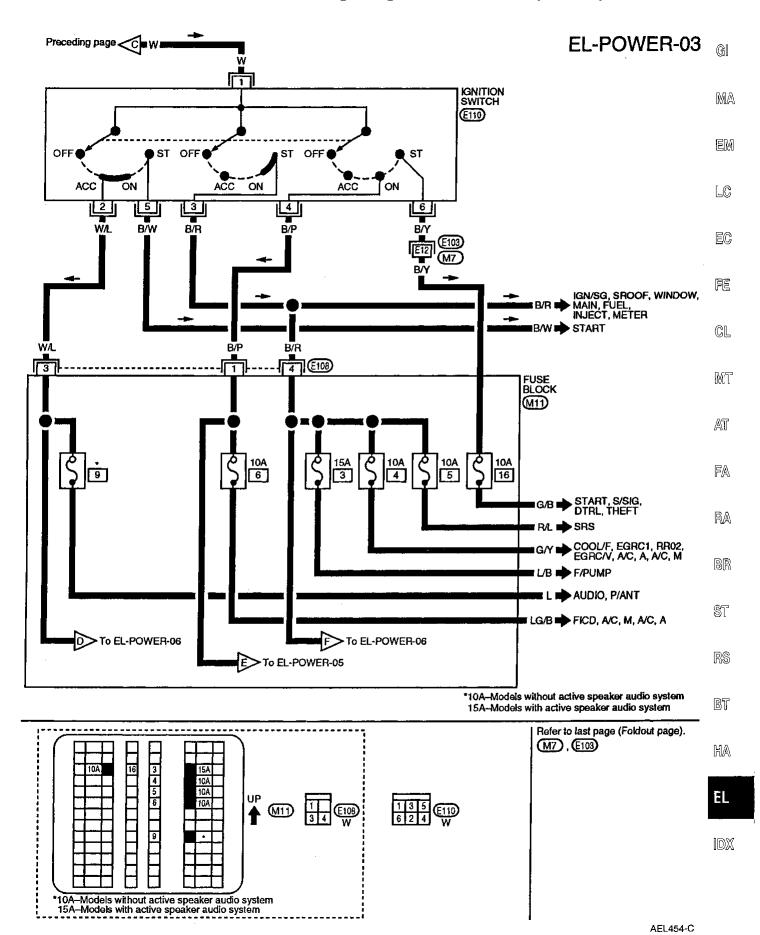
EL-POWER-02





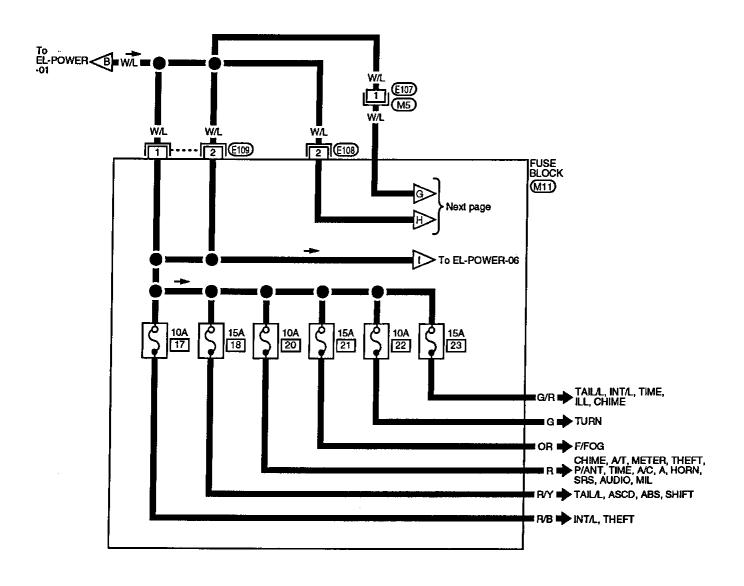
POWER SUPPLY ROUTING

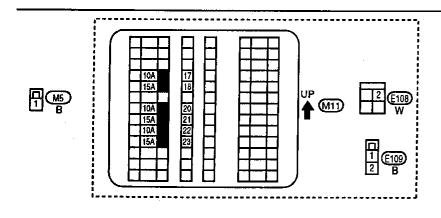
Wiring Diagram -POWER- (Cont'd)



Wiring Diagram -POWER- (Cont'd)

EL-POWER-04



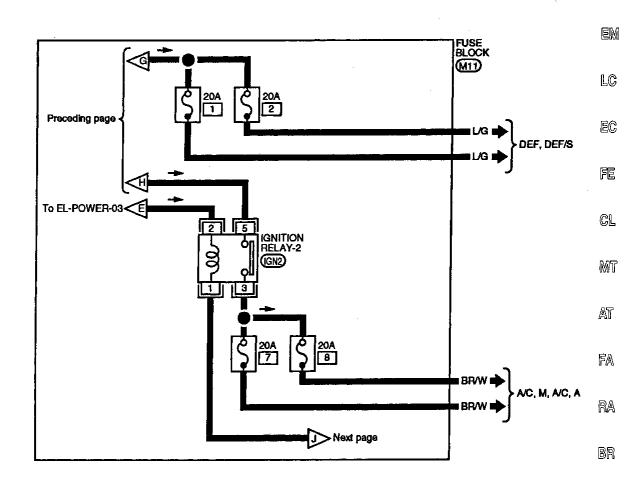


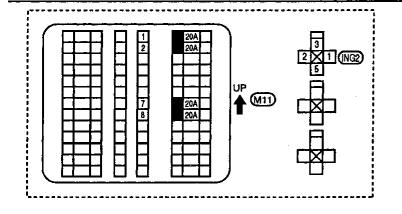
POWER SUPPLY ROUTING

Wiring Diagram -POWER- (Cont'd)

EL-POWER-05

MA





AEL454-E

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RS

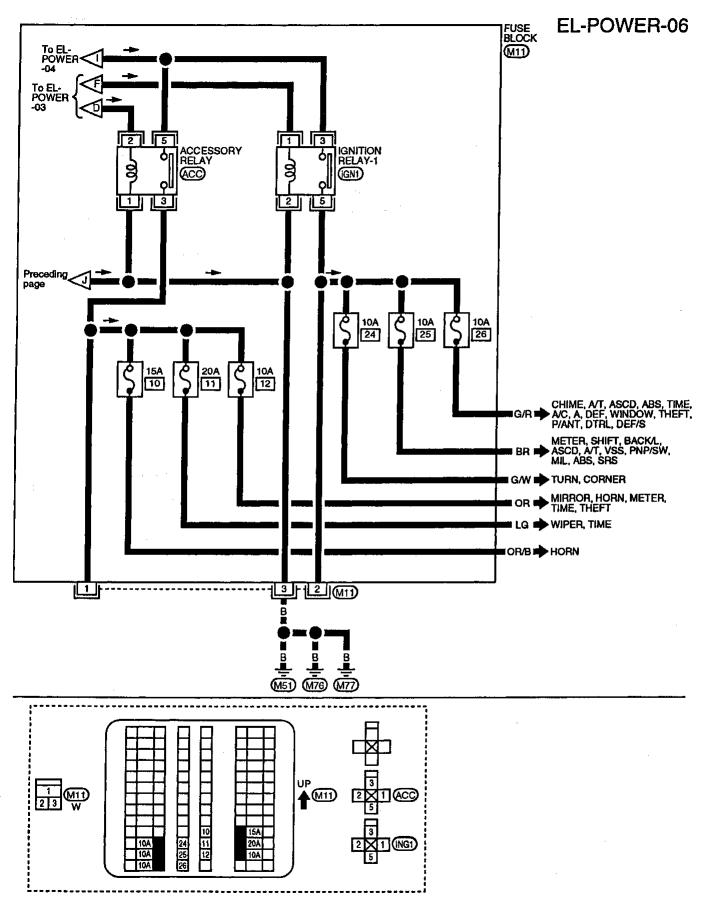
BT

KA

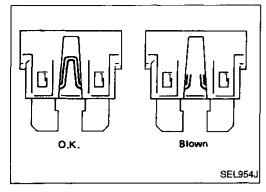
EL

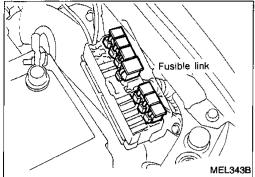
IDX

Wiring Diagram -POWER- (Cont'd)



POWER SUPPLY ROUTING





Fuse

a. If fuse is blown, be sure to eliminate cause of problem before installing new fuse.

b. Use fuse of specified rating. Never use fuse of more than specified rating.

Do not partially install fuse; always insert it into fuse holder properly.

d. Remove fuse for clock if vehicle is not used for a long period of time.

LC

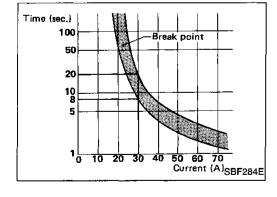
A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

CAUTION:

Fusible Link

a. If fusible link should melt, it is possible that a critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check these circuits and eliminate cause of problem.

b. Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring harness, vinyl or rubber parts.



Circuit Breaker Inspection

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

- Power window
- Power sun roof

EL-13

Circuit breakers are used in the following systems. Power door lock RS

BT

MA

EC

FE

MT

AT

FA

RA

BR

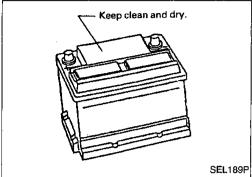
ST

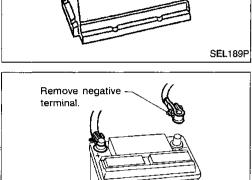
HA

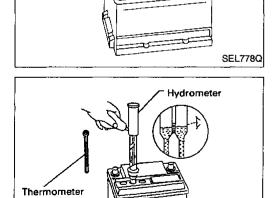
M

CAUTION:

- a. If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.
- b. After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.







How to Handle Battery

METHODS OF PREVENTING DISCHARGE

The following precautions must be taken to prevent overdischarging a battery.

- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- During every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".
- When the vehicle is not going to be used over a long period of time, disconnect the negative battery terminal.

 Check the condition of the battery. Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.

CHECKING ELECTROLYTE LEVEL

WARNING:

SEL191P

Do not allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, do not touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

Normally the battery does not require additional water. However, when the battery is used under severe conditions, adding distilled water may be necessary during the battery life.

BATTERY

Suitable tool MAX. level MIN. level SEL779Q

How to Handle Battery (Cont'd)

- Remove the cell plug using a suitable tool.
- Add distilled water up to the MAX level.

SULPHATION

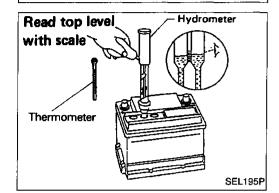
A battery (with specific gravity less than 1.100) will completely discharge when left unattended for a long period of time. This will result in sulphation on the cell plates. A sulphated battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.

EM

LC

MA

G



Hydrometer

Thermometer

SPECIFIC GRAVITY CHECK

1. Read hydrometer and thermometer readings at eye level.

EC

FE

CL

When electrolyte level is too low, tilt battery case for easy measurement.

AT

MT

FA

RA

ST

RS

BT

HA

Use the chart below to correct your hydrometer reading according to electrolyte temperature. Hydrometer temperature correction

SEL196P

Battery electrolyte temperature °C (°F)	Add to specific gravity reading	Battery electrolyte temperature °C (°F)	Add to specific gravity reading
71 (160)	0.032	21 (70)	-0.004
66 (150)	0.028	16 (60)	-0.008
60 (140)	0.024	10 (50)	-0.012
54 (129)	0.020	4 (39)	-0.016
49 (120)	0.016	-1 (30)	-0.020
43 (110)	0.012	-7 (20)	-0.024
38 (100)	0.008	-12 (10)	-0.028
32 (90)	0.004	-18 (O)	-0.032
27 (80)	0		

Corrected specific gravity	Approximate charge condition	Corrected specific gravity	Approximate charge condition
1.260 - 1.280	Fully charged	1.170 - 1.190	1/4 charged
1.230 - 1.250	3/4 charged	1.140 - 1.160	Almost discharged
1.200 - 1.220	1/2 charged	1.110 - 1,130	Completely discharged

IDX

BATTERY

How to Handle Battery (Cont'd) CHARGING THE BATTERY

CAUTION:

- a. Do not "quick charge" a fully discharged battery.
- b. Keep the battery away from open flame while it is being charged.
- c. When connecting the charger, connect the leads first, then turn on the charger. Do not turn on the charger first, as this may cause a spark.
- d. If battery electrolyte temperature rises above 60°C (140°F), stop charging. Always charge battery at a temperature below 60°C (140°F).

Charging rates:

Amps	Time
50 ⁻	1 hour
25	2 hours
10	5 hours
5	10 hours

Do not charge at more than 50 ampere rate.

Note: The ammeter reading on your battery charger will automatically decrease as the battery charges. This indicates that the voltage of the battery is increasing normally as the state of charge improves. The charging amps indicated above are referred to as initial charge rate.

- If, after charging, the specific gravity of any two cells varies more than .050, the battery should be replaced.
- After the battery is charged, always perform a "capacity test" as follows, to assure that the battery is serviceable.

MEMORY RESET

If the battery is disconnected or goes dead the following items must be reset:

- Radio AM and FM preset
- Clock
- AUTO temperature setting trimmer
- ECCS self-learning
- Heater setting

BATTERY

SPECIFIC GRAVITY

CHECK

CHARGING THE BATTERY

CAPACITY TEST

Test using load tester.

Read load tester voltage

current (Refer to Fig. 1.)

See voltage chart.

Above minimum voltage?

seconds.

Ready for use

N.G.

Replace

battery.

when specified discharging

flows through battery for 15

Test using battery checker.

Follow manufacturer's

viceable.

O.K.

Ready for use

instructions to check and

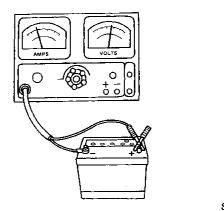
determine if battery is ser-

How to Handle Battery (Cont'd)

 Check battery type and determine the specified current using the following table.

Fig. 1 DISCHARGING CURRENT (Load tester)

(=====,	
Туре	Current (A)
35	225
24R	260



EM

MA

GI

LC

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FE

SEL008Z

MT

AT

FA

RA

BR

ST

RS

BT

HA

Voltage chart

N.G.

Replace

battery.

Estimated electrolyte temperature °C (°F)	Minimum voltage under 15 second load	
21 (70)	9.6	
16 (60)	9.5	
10 (50)	9.4	
4 (40)	9.3	
-1 (30)	9.1	
-7 (20)	8.9	
-12 (10)	8.7	
-18 (0)	8.5	

Service Data and Specifications (SDS)

Applied model		USA	USA option and Canada
Туре		35	24R
Capacity	V-AH	12-48	12-55

EL

IDX

System Description

M/T models for USA

Power is supplied at all times

- to ignition switch terminal ①
- through 30A fusible link (letter b , located in the fusible link and fuse box).

With the ignition switch in the START position, power is supplied

- through terminal 5 of the ignition switch
- to clutch interlock relay terminal 3.

Power is also supplied

- through terminal 6 of the ignition switch
- to the 10A fuse (No. 16), located in the fuse block).

For models with theft warning system

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse (No. 26), located in the fuse block)
- to theft warning relay-1 terminal (1).

With the ignition switch in the START position, power is supplied

- through 10A fuse (No. 16 , located in the fuse block)
- to theft warning relay-1 terminal ③
- through theft warning relay-1 terminal 4
- to clutch interlock relay terminal ①.

If the theft warning system is triggered, terminal ② of the theft warning relay-1 is grounded and power to the clutch interlock relay is interrupted.

For models without theft warning system

With the ignition switch in the START position, power is supplied

- through 10A fuse (No. 16 , located in the fuse block)
- to clutch interlock relay terminal ①.

Ground is supplied to clutch interlock relay terminal 2, when the clutch pedal is depressed through the clutch pedal position switch and body grounds (M51), (M75), and (M77).

The clutch interlock relay is energized and power is supplied

- from terminal (5) of the clutch interlock relav
- to terminal (1) of the starter motor windings.

The starter motor plunger closes and provides a closed circuit between the battery and the starter motor. The starter motor is grounded to the engine block. With power and ground supplied, cranking occurs and the engine starts.

M/T models for Canada

Power is supplied at all times

- to ignition switch terminal (1)
- through 30A fusible link (letter b , located in the fusible link and fuse box).

With the ignition switch in the START position, power is supplied:

- from ignition switch terminal ⑤
- directly to terminal (1) of the starter motor windings.

The starter motor plunger closes and provides a closed circuit between the battery and the starter motor. The starter motor is grounded to the engine block. With power and ground supplied, cranking occurs and the engine starts.

A/T models

Power is supplied at all times

- to ignition switch terminal (1)
- through 30A fusible link (letter b), located in the fusible link and fuse box).

For USA models with theft warning system

With the ignition switch in the ON or START position, power is supplied

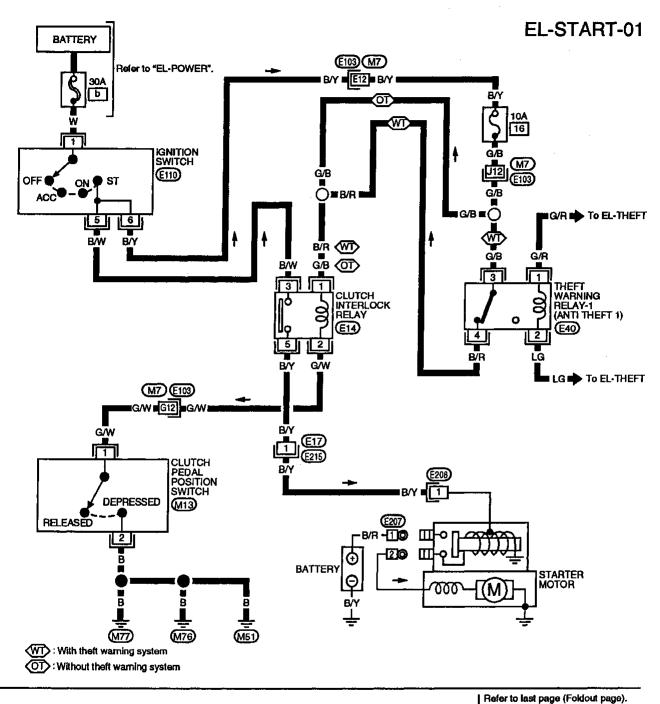
- through 10A fuse (No. 26), located in the fuse block)
- to theft warning relay-1 terminal ①.

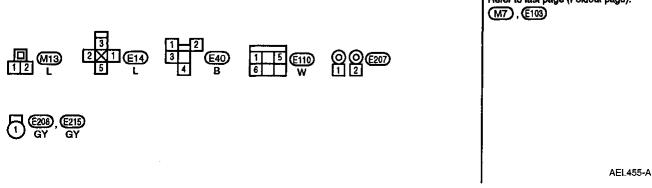
System Description (Cont'd)

With the ignition switch in the START position, power is supplied from ignition switch terminal (5) to theft warning relay-1 terminal (3) GI through theft warning relay-1 terminal 4 to inhibitor switch terminal (2) through inhibitor switch terminal ①, with the selector lever in the P or N position MA to terminal (1) of the starter motor windings. If the theft warning system is triggered, terminal (2) of the theft warning relay-1 is grounded and power to the inhibitor switch is interrupted. EM For USA models without theft warning system With the ignition switch in the START position, power is supplied LC from ignition switch terminal (5) to inhibitor switch terminal 2 through inhibitor switch terminal (1), with the selector lever in the P or N position EC to terminal (1) of the starter motor windings. The starter motor plunger closes and provides a closed circuit between the battery and the starter motor. The starter motor is grounded to the engine block. With power and ground supplied, cranking occurs and FE the engine starts. CL MT AT FA RA BR ST RS BT HA

Wiring Diagram -START-

M/T models for USA



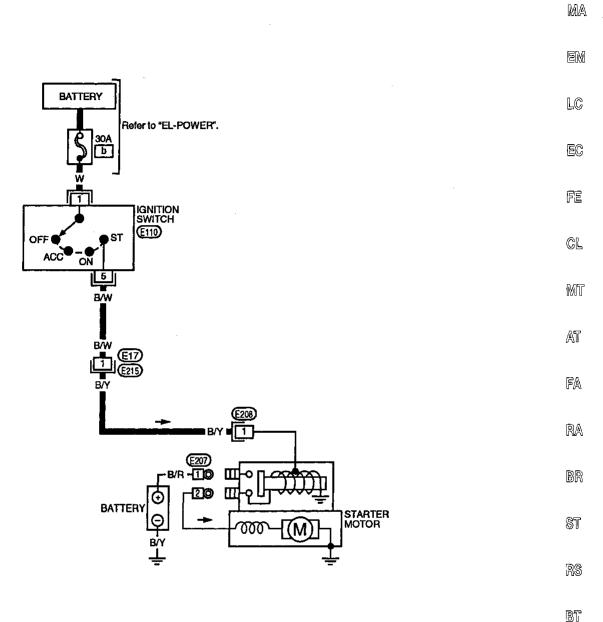


Wiring Diagram -START- (Cont'd)

M/T models for Canada



G|





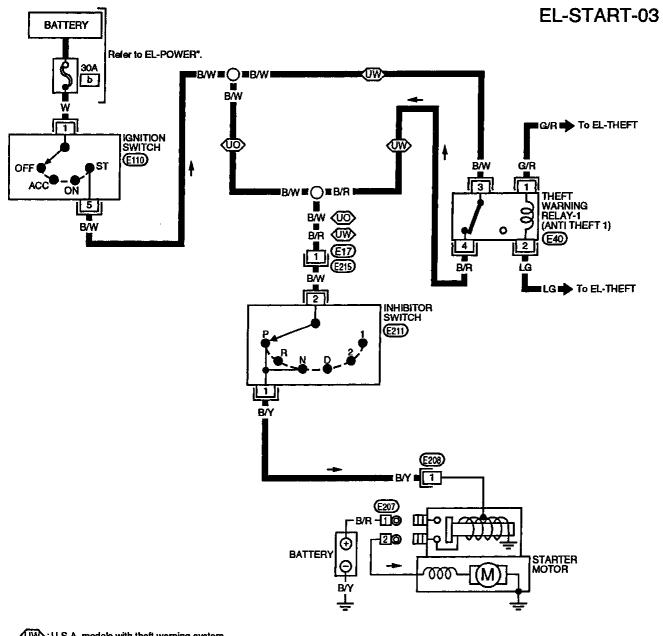
EL

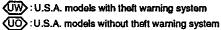
HA

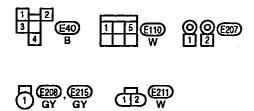
IDX

Wiring Diagram -START- (Cont'd)

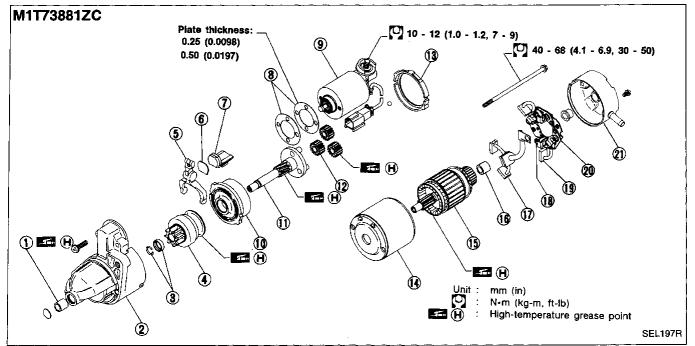
A/T models







Starter



- 1 Sleeve bearing
- ② Gear case
- Pinion stopper
- 4 Pinion assembly5 Shift lever6 Plate

- 7 Packing

- 8 Adjusting plate
- Magnetic switch assembly
- (10) Internal gear
- ① Shaft
- 12 Planetary gear
- (13) Packing
- (14) Yoke

- (15) Armature
- 16 Sleeve bearing
- Brush (+)
- 18 Brush spring
- 19 Brush (-)
- 20 Brush holder
- (21) Rear cover

GI

MA

LC

EC

FE

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MT

AT

FA

RA

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ST

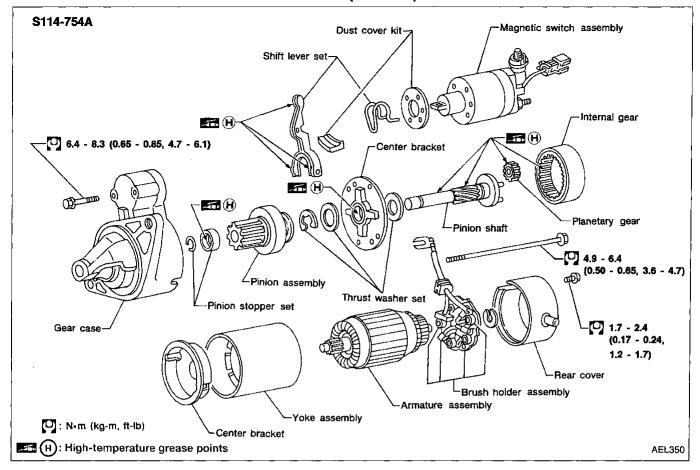
RS

BT

HA

IDX

Starter (Cont'd)



Pinion/Clutch Check

- 1. Inspect pinion teeth.
- Replace pinion if teeth are worn or damaged. (Also check @condition of ring gear teeth.)
- 2. Inspect reduction gear teeth.
- Replace reduction gear if teeth are worn or damaged. (Also MA check condition of armature shaft gear teeth.)
- 3. Check to see if pinion locks in one direction and rotates smoothly in the opposite direction.
- If it locks or rotates in both directions, or unusual resistance is evident, replace.

Service Data and Specifications (SDS)

STARTER

Туре		M1T73881ZC	S114-754A
		MELMAC	HAP
		Reduction	gear type
Applied model		A/T	M/T
System voltage	٧	1	2
No-load			
Terminal voltage	٧	11	0.0
Current	Α	Less than 88	Less than 85
Revolution	Revolution rpm		More than 2,950
Minimum diameter of commutator mm	· -	28.8 (1.134)	28.0 (1.102)
Minimum length of brush mm	(in)	12.0 (0.472)	10.5 (0.413)
Brush spring tension N (kg, lb)		13.7 - 25.5 (1.4 - 2.6, 3.1 - 5.7)	14.7 - 17.7 (1.5 - 1.8, 3.3 - 4.0)
Clearance of bearing metal and armature shaft mm (in)		_	0.03 - 0.3 (0.0012 - 0.0118)
Clearance " ℓ " between pinion front edge and pinion stopper mm (in)		0.5 - 2.0 (0.020 - 0.079)	0.05 - 1.5 (0.0020 - 0.0591)
Installed current	Α	140	120

BT

EM

LC

EC

HA

EL-25

CHARGING SYSTEM

System Description

The generator provides DC voltage to operate the vehicle's electrical system and to keep the battery charged. The voltage output is controlled by the IC regulator.

Power is supplied at all times to generator terminal (§) through:

• 10A fuse (No. 31, located in the fusible link and fuse box).

Voltage output through generator terminal (B), to charge the battery and operate the vehicle's electrical system, is controlled by the amount of voltage detected by the IC regulator at terminal (S). The charging circuit is protected by the 75A fusible link.

Terminal (E) of the generator supplies ground through body ground (E41).

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse (No. 25, located in the fuse block)
- to combination meter terminal

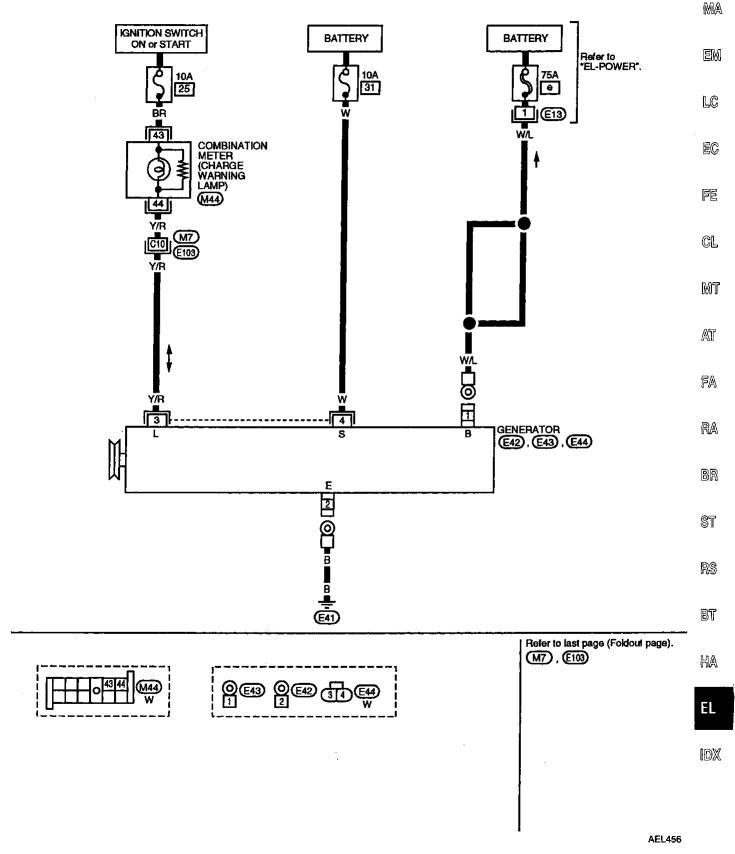
 for the charge warning lamp.

Ground is supplied to terminal 4 of the combination meter through terminal L of the generator. With power and ground supplied, the charge warning lamp will illuminate. When the generator is providing sufficient voltage with the engine running, the ground is opened and the charge warning lamp will go off.

If the charge warning lamp illuminates with the engine running, a fault is indicated. Refer to "Trouble Diagnoses", "CHARGING SYSTEM" (EL-28).

Wiring Diagram -CHARGE-

EL-CHARGE-01

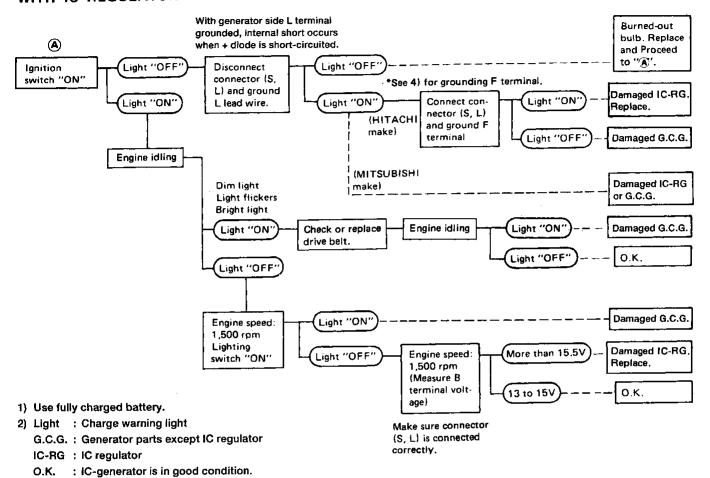


Trouble Diagnoses

Before conducting an generator test, make sure that the battery is fully charged. A 30-volt voltmeter and suitable test probes are necessary for the test. The generator can be checked easily by referring to the Inspection Table.

Before starting diagnosis, inspect the fusible link.

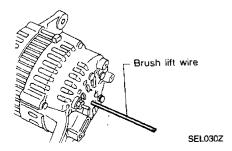
WITH IC REGULATOR



- 3) When reaching "Damaged G.C.G.", remove generator from vehicle and disassemble, inspect and correct or replace faulty parts.
- 4) *Method of grounding F terminal (HITACHI make only)

Gasoline engine model

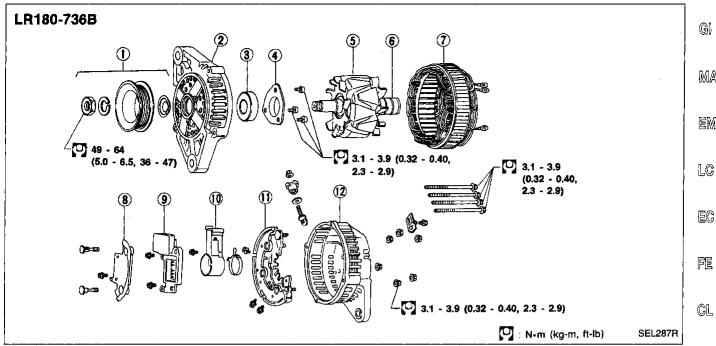
Contact tip of wire with brush and attach wire to generator body.



 Terminals "S", "L", "B" and "E" are marked on rear cover of generator.

CHARGING SYSTEM

Generator



- 1 Pulley assembly
- 2 Front cover
- 3 Front bearing
- 4 Retainer

- § Rotor§ Slip ring§ Stator
- 8 Condenser

- 9 IC regulator assembly
- 10 Brush holder
- 1 Diode assembly
- 12 Rear cover

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RS

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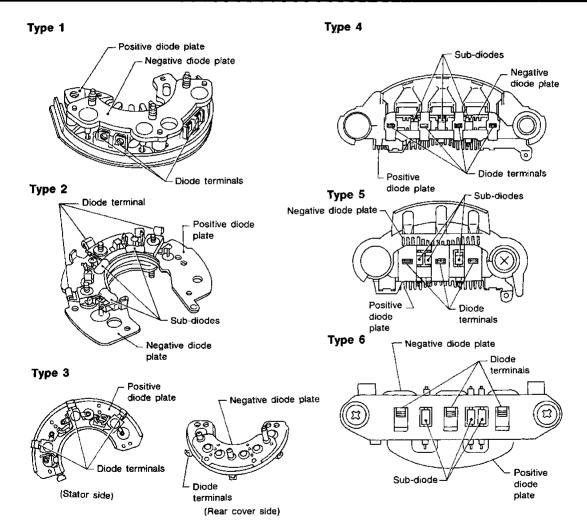
 $\mathbb{D}\mathbb{X}$

Diode Check

MAIN DIODES

- In order to check diodes, they must be unsoldered from the stator.
- Use an ohmmeter to check condition of diodes as indicated in chart below.
- If any of the test results is not satisfactory, replace diode assembly.

	Ohmmet	ludaomant	
	Positive ⊕	Negative ⊝	Judgement
Diodes check (Positive side)	Positive diode plate	Diode terminals	Diode conducts in only one
	Diode terminals	Positive diode plate	direction.
Diodes check (Negative side)	Negative diode plate	Diode terminals	Diode conducts in only one
	Diode terminals	Negative diode plate	direction.



SEL039Z

CHARGING SYSTEM

Assembly

Carefully observe the following instructions.

When soldering each stator coil lead wire to diode assembly terminal, carry out the operation as fast as possible.

MA

EM.

LC

Amount of protrusion:

Fix ring at the position of minimum protrusion.

Ring

Eccentric groove

Rear bearing

SEL044Z

RING FITTING IN REAR BEARING

 Fix ring into groove in rear bearing so that it is as close to the adjacent area as possible.

EC

CAUTION:

Do not reuse rear bearing after removal.

FE

CL

REAR COVER INSTALLATION

(1) Fit brush assembly, diode assembly, regulator assembly and stator.

AT

MT

(2) Push brushes up with fingers and install them to rotor.

Take care not to damage slip ring sliding surface.

FA

RA

BR

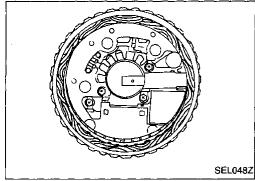
ST

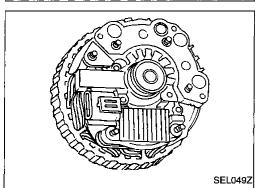
RS

BT

HA

E)



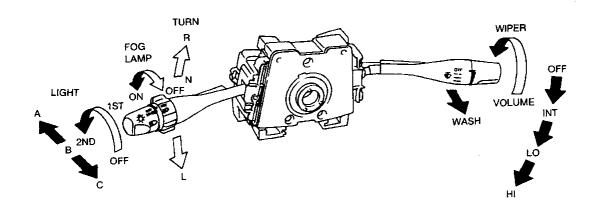


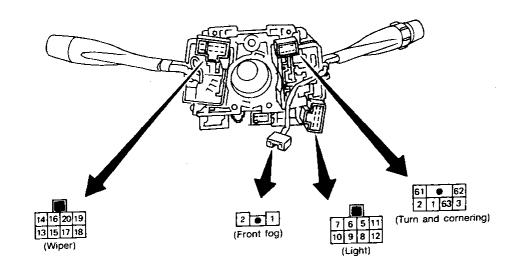
Service Data and Specifications (SDS) GENERATOR

Туре		LR180-736B	
		HAP	
Nominal rating	V-A	12-80	
Ground polarity		Negative	
Minimum revolution under no (When 13.5 volts is applied)	-íoad rpm	Less than 1,000	
Hot output current (When 13.5 volts is applied)	A/rpm	More than 23/1,300 More than 63/2,500 More than 77/5,000	
Regulated output voltage	V	14.1 - 14.7	
Minimum length of brush	mm (in)	6.0 (0.236)	
Brush spring pressure	N (g, oz)	1.000 - 2.452 (102 - 250, 3.60 - 8.82)	
Slip ring minimum diameter	mm (in)	26.0 (1.024)	
Rotor (Field coil) resistance	Ω	2.67	

EL-32 1074

Combination Switch/Check



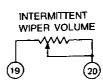


	LIGHTING SWITCH								
	OFF		15 T		2 N D				
	Α	В	С	Α	В	С	Α	В	c
5			Q			Q	Q	Q	인
6		Г	δ			Q	<u>O</u>		이
7	Π					L		<u>(</u>	Ц
8	Г		Q			Q	Q	Q	인
9	Г		ठ			Q	Q	Ш	O
10								Ò	Ц
11	Г	Г		Q	Q	Q	Q	Q	인
12		Γ.		Q	Q	δ	Q	Ø	이
			. —						

	TURN SIGNAL SWITCH					
	RNL					
	1	Q		Q		
	2	Q				
ĺ	3			0		

CORNERING LAMP SWITCH					
	\setminus	R	N	L	
	61	Q		Q	
	62	Ó		Ш	
	63			<u>()</u>	

	WIPER SWITCH					
	OFF	INT	LO	н	WASH	
13	Q	Q				
14	Ŏ	O	Q	L		
15		Q			<u> </u>	
16				Q		
17	Γ	<u>о</u>	Ò	<u>(</u>	LQ	
18				<u> </u>		
			-			



FRONT FOG LAMP SWITCH					
]	\setminus	OFF	ON		
1	2		Q		
	1		ठा		

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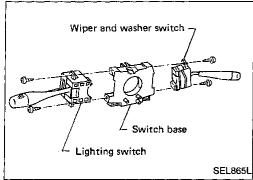
EL

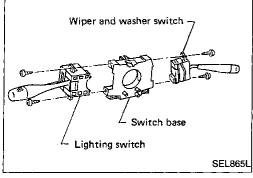
IDX

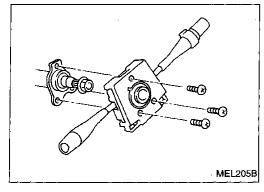
AEL270

COMBINATION SWITCH

EL-34





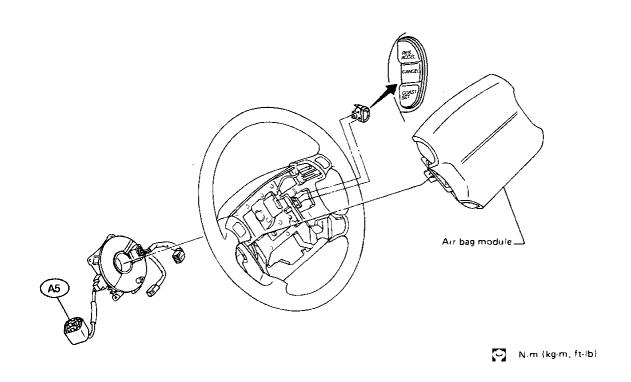


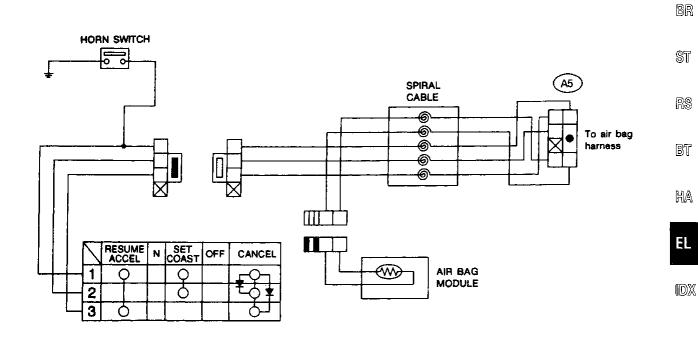
Combination Switch/Replacement

Each switch can be replaced without removing combination switch base.

To remove combination switch base, remove base attaching screws.

Steering Switch/Check





AEL560

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System Description (For USA)

The headlamps are controlled by the lighting switch which is built into the combination switch. Power is supplied at all times

• to lighting switch terminal (5)

• through 15A fuse (No. 36), located in the fusible link and fuse box), and

• to lighting switch terminal (8)

through 15A fuse (No. 37, located in the fusible link and fuse box).

Low beam operation

When the lighting switch is turned to the 2ND position and placed in LOW ("B") position, power is supplied

from lighting switch terminal 10

• to terminal ① of the LH headlamp, and

from lighting switch terminal ⑦

• to terminal 1 of the RH headlamp.

Terminal ③ of each headlamp supplies ground through body grounds **£12** and **£37**. With power and ground supplied, the headlamp(s) will illuminate.

High beam operation/flash-to-pass operation

When the lighting switch is placed in the 2ND position and placed in HIGH ("A") position, power is supplied

from lighting switch terminal (6)

to terminal ② of the RH headlamp, and

from lighting switch terminal 9

to terminal (2) of the LH headlamp, and

• to combination meter terminal (1) for the HI BEAM indicator.

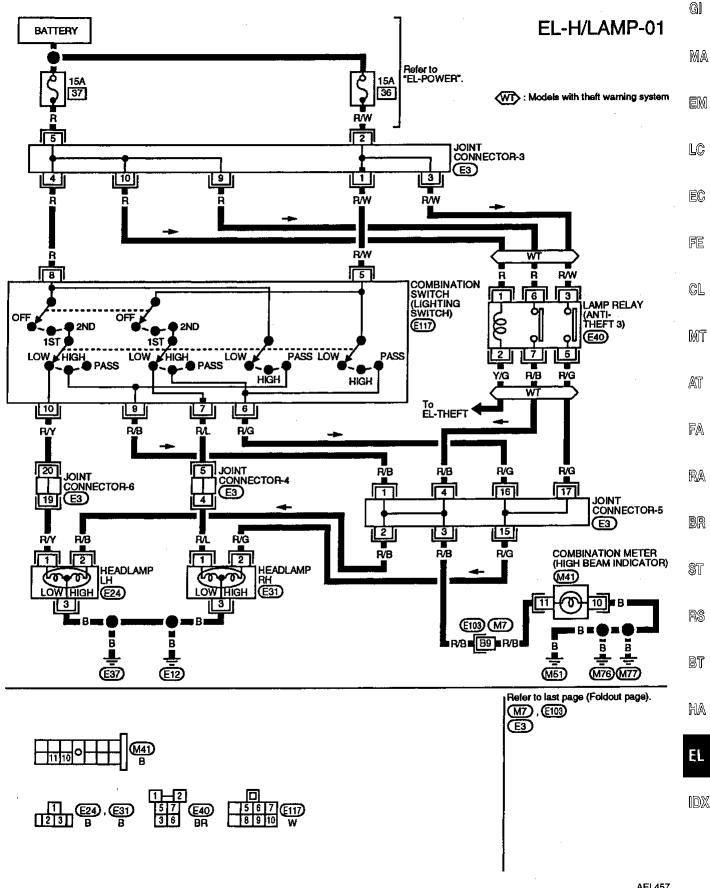
Ground is supplied to terminal (1) of the combination meter through body grounds (M51), (M76), and (M77). With power and ground supplied, the high beams and the HI BEAM indicator illuminate.

Theft warning system

The theft warning system will flash the high beams if the system is triggered. Refer to "System Description", "THEFT WARNING SYSTEM", (EL-161).

EL-36 1078

Wiring Diagram (For USA) -H/LAMP-



Trouble Diagnoses (For USA)

Symptom	Possible cause	Repair order
LH headlamps do not operate.	1. Bulb 2. Grounds (£12) and (£37) 3. 15A fuse 4. Lighting switch	 Check bulb. Check grounds (£12) and (£37). Check 15A fuse (No. (§37)), located in fusible link and fuse box). Verify battery positive voltage is present at terminal (§3) of lighting switch. Check lighting switch.
RH headlamps do not operate.	1. Bulb 2. Grounds (£12) and (£37) 3. 15A fuse 4. Lighting switch	 Check bulb. Check grounds (£12) and (£37). Check 15A fuse (No. 36), located in fusible link and fuse box). Verify battery positive voltage is present at terminal (5) of lighting switch. Check lighting switch.
LH high beam does not operate, but LH low beam operates.	 Bulb Open in LH high beam circuit Lighting switch 	Check bulb. Check R/B wire between lighting switch and LH headlamp for an open circuit. Check lighting switch.
LH low beam does not operate, but LH high beam operates.	Bulb Open in LH low beam circuit Lighting switch	Check bulb. Check R/Y wire between lighting switch and LH headlamp for an open circuit. Check lighting switch.
RH high beam does not operate, but RH low beam operates.	 Bulb. Open in RH high beam circuit Lighting switch. 	Check bulb. Check R/G wire between lighting switch and RH headlamp for an open circuit. Check lighting switch.
RH low beam does not operate, but RH high beam operates.	Bulb Open in RH low beam circuit Lighting switch	Check bulb. Check R/L wire between lighting switch and RH headlamp for an open circuit. Check lighting switch.
High beam indicator does not work.	 Bulb Grounds (M51), (M76) and (M77) Open in high beam circuit 	 Check bulb in combination meter. Check grounds (M51), (M76) and (M77). Check R/B wire between joint connector - 5 and combination meter for an open circuit.

EL-38 1080

System Description (For Canada)

The headlamp system for Canada vehicles contains a daytime light control module that activates the high beam headlamps at approximately half illumination whenever the engine is running. If the parking brake is applied before the engine is started the daytime lights will not be illuminated. The daytime lights will illuminate once the parking brake is released. Thereafter, the daytime lights will continue to operate when the parking brake is applied.	GI MA
 Power is supplied at all times through 15A fuse (No. 36, located in the fusible link and fuse box) to daytime light control module terminal (3) and to lighting switch terminal (5). 	EM
Power is also supplied at all times ■ through 15A fuse (No. ③ , located in the fusible link and fuse box) ■ to daytime light control module terminal ④ and	LC
 to lighting switch terminal (8). With the ignition switch in the ON or START position, power is supplied through 10A fuse (No. 26), located in the fuse block) 	EC
• to daytime light control module terminal (5). Ground is supplied to daytime light control module terminal (10) through body grounds (151), (175) and (177).	FE
HEADLAMP OPERATION	CL
Low beam operation When the lighting switch is moved to the 2ND position and placed in LOW ("B") position (low beam operation), power is supplied	MT
 from lighting switch terminal (7) to RH headlamp terminal (1). Ground is supplied to RH headlamp terminal (3) through body grounds (£12) and (£37). 	AT
Also, when the lighting switch is moved to the 2ND position and placed in LOW ("B") position (low beam	FA
 to LH headlamp terminal ①. Ground is supplied 	RA
 to LH headlamp terminal ③ from daytime light control module terminal ⑥ through daytime light control module terminal ⑩ through body grounds (M51), (M75) and (M77). 	BR
With power and ground supplied, the low beam headlamps illuminate. High beam operation	ST
When the lighting switch is moved to the 2ND position and placed in HIGH ("A") position, power is supplied from lighting switch terminal 6	RS
• to RH headlamp terminal ②. Also, when the lighting switch is moved to the 2ND position and placed in HIGH ("A") position, power is	BT
 supplied from lighting switch terminal ③ to daytime light control module terminal ⑥ through daytime light control module terminal ⑦ 	HA
• to LH headlamp terminal (2).	

1081

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System Description (For Canada) (Cont'd)

DAYTIME LIGHT OPERATION

With the engine running and the lighting switch in the OFF position, power is supplied

- to daytime light control module terminal 4
- through daytime light control module terminal 7
- to LH headlamp terminal ②
- through LH headlamp terminal 3
- to daytime light control module terminal (8)
- through daytime light control module terminal (9)
- to RH headlamp terminal ②.

Ground is supplied to RH headlamp terminal ③ through body grounds **£12** and **£37**. Because the high beam headlamps are now wired in series, they operate at half illumination.

Operation (Daytime light system for Canada)

The headlamps' high beams automatically turn on after starting the engine with the lighting switch in "OFF" or "1st" position. Lighting switch operations other than the above are the same as conventional light systems.

Engine		With engine stopped With engine running																	
11.10			OFF		1ST		2ND		OFF		1ST			2ND)			
Lighting switch		Α	В	C	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
	High beam	Х	Х	0	Х	х	0	0	Х	0	Δ*	Δ*	0	Δ*	Δ*	0	0	х	0
Headlamp	Low beam	X	Х	х	X	х	х	х	0	х	Х	Х	х	Х	Х	Х	X	0	X
Clearance and tail lamp		Х	Х	Х	0	0	0	0	0	0	х	Х	х	0	0	0	0	0	0
License and instrument illumination lamp		х	Х	х	0	0	0	0	0	0	Х	Х	х	0	0	0	0	0	0

O: Lamp "ON"

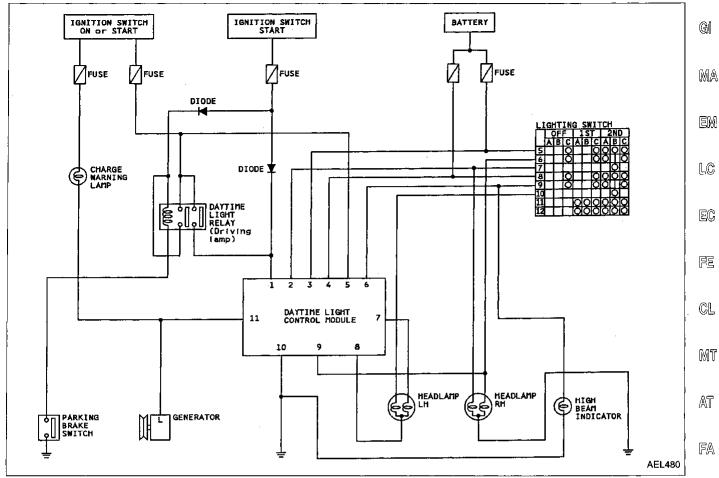
X: Lamp "OFF"

^{△:} Lamp dims.

^{☐:} Added functions

^{*:} When starting the engine with the parking brake released, the daytime light will come ON. When starting the engine with the parking brake pulled, the daytime light won't come ON.

Schematic (For Canada)



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EL-41 1083

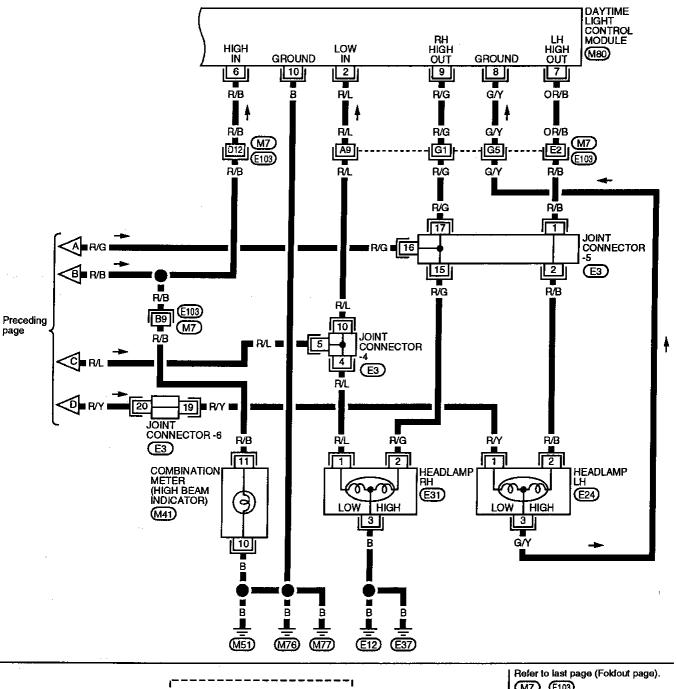
Wiring Diagram (For Canada) -DTRL-IGNITION SWITCH START IGNITION SWITCH ON or START **EL-DTRL-01** Refer to "EL-POWER". 16 JOINT CONNECTOR-8 G/Y G/B 25 (M64)9 **G/W**■8 3 ■ LG ■ ΒR 10 5 4 43 G/B LG COMBINATION METER (CHARGE WARNING LAMP) G/W M7 G6 £103 (M44)Υ/R (E103) (M7) G/R **A8** G/R JOINT CONNECTOR -6__ 3 **■**G/W G **E3** لكاإ C5 (M7)(E103) G/W G/W 5 1 111 5 DAYTIME LIGHT CONTROL MODULE Y/R C10 DAYTIME LIGHT RELAY (DRIVING LAMP) START GEN"L" (M6) (M7) **B1 E103** Y/R γ/B (M80) 6 3 (E40) Y/R G/R G/R 3 **GENERATOR** (E44) G/R G/R 7 [5] 6 ■ G/R ■ JOINT CONNECTOR-6 PARKING Y/B 1 BRAKE SWITCH (E3) **PULLED** (B11) (£103) (M7) ■H5 ■ LG Refer to last page (Foldout page). (M7), (£103) (M6), (B1) (M64)(M80) (MBO) **E3** 1

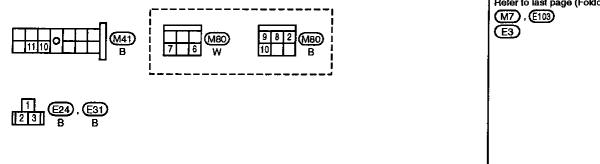
Wiring Diagram (For Canada) -DTRL-(Cont'd) **EL-DTRL-02** BATTERY Gl Refer to "EL-POWER". MA EM 5 JOINT CONNECTOR-3 LC (E3) R/W RW EC FE RW AG R/W 8 (E) (M7) COMBINATION SWITCH (LIGHTING SWITCH) CL MT 2ND 1ST LOW HIGH PASS PASS LOW_ AT LOW HIGH LOW PASS HIGH HIGH FA 10 6 R/Y ΑVG ĀL PVB RA ₽R/G ₽A BR ■ R/B **■**B> RW Next 3 4 ST DAYTIME POWER POWER LIGHT CONTROL RS (M80) BT Refer to last page (Foldout page). M7). (£103) Œ3) HA (M80) W (M80)EL IDX

AEL458-B

Wiring Diagram (For Canada) –DTRL– (Cont'd)

EL-DTRL-03





Trouble Diagnoses (For Canada)

GI

DAYTIME LIGHT CONTROL MODULE INSPECTION TABLE

(Data are reference values)

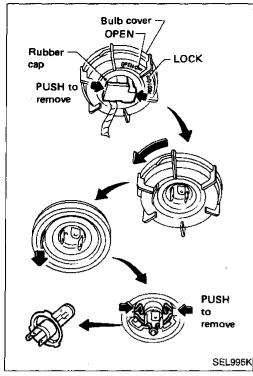
Ter- minal No.	Item		Condition	Judgement standard
1	Start/parking brake signal	Co	When turning ignition switch to "ST".	Battery positive voltage
		Can	When turning ignition switch to "ON" from "ST" with parking brake set.	Battery positive voltage
		and the		
			When releasing parking brake with engine running. CAUTION: Block wheels and ensure selector lever is in N or P position.	1V or less
		Con	When turning ignition switch to "OFF".	1V or less
2	Lighting switch (Lo beam in)	- 9	When turning lighting switch to 2nd position and placed in LOW ("B") position.	Battery positive voltage
3	Power source	Can	When turning ignition switch to "ON".	Battery positive voltage
		(Con)	When turning ignition switch to "OFF".	Battery positive voltage
4	Power source	Can	When turning ignition switch to "ON".	Battery positive voltage
		(Car)	When turning ignition switch to "OFF".	Battery positive voltage
5	Power source	(Can)	When turning ignition switch to "ON".	Battery positive voltage
		(Cs)	When turning ignition switch to "ST".	Battery positive voltage
			When turning ingition switch to "OFF".	1V or less
6	Lighting switch (Hi beam in)		When turning lighting switch to 2nd position and placed in HIGH ("A") position.	Battery positive voltage
	;		When turning lighting switch to PASS ("C") position.	Battery positive voltage
7	LH hi beam out		When turning lighting switch to 2nd position and placed in HIGH ("A") position.	Battery positive voltage
			When releasing parking brake with engine running and turning lighting switch to "OFF" (daytime light operation). CAUTION: Block wheels and ensure selector lever is in N or P position.	Battery positive voltage

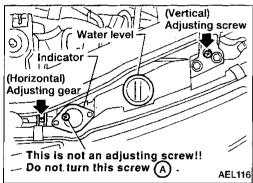
1087 **EL-45**

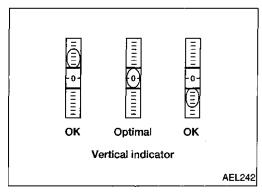
Trouble Diagnoses (For Canada) (Cont'd)

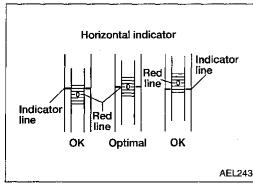
Ter- minal No.	ltem		Condition	Judgement standard
8	LH headlamp control (ground)		When lighting switch is turned to 2nd position and placed in LOW ("B") position.	1V or less
			When releasing parking brake with engine running and turning lighting switch to "OFF" (day-time light operation). CAUTION: Block wheels and ensure selector lever is in N or P position.	Approx. half battery voltage
9	RH hi beam out		When turning lighting switch to 2nd position and placed in HIGH ("A") position.	Battery positive voltage
İ			When releasing parking brake with engine running and turning lighting switch to "OFF" (daytime light operation). CAUTION: Block wheels and ensure selector lever is in N or P position.	Approx. half battery voltage
10	Ground		_	
11	Generator	(Can)	When turning ignition switch to "ON".	1V or less
			When engine is running.	Battery positive voltage
		(COFF)	When turning ignition switch to "OFF".	1V or less
12			_	_

EL-46 1088









Bulb Replacement

The headlamp is a semi-sealed beam type which uses a replaceable halogen bulb. The bulb can be replaced from the engine compartment side without removing the headlamp body.

Grasp only the plastic base when handling the bulb.
 Never touch the glass envelope.

1. Disconnect the battery cable.

Disconnect the harness connector from the back side of the bulb.

3. Turn the bulb retaining ring counterclockwise until it is free from the headlamp reflector, and then remove it.

4. Pull off the rubber cap.

5. Remove the headlamp bulb carefully. Do not shake or rotate the bulb when removing it.

6. Install in the reverse order of removal.

CAUTION:

Do not leave headlamp reflector without bulb for a long period of time. Dust, moisture, smoke, etc. entering headlamp body may affect the performance of the headlamp. Remove headlamp bulb from the headlamp reflector just before a replacement bulb is installed.

Aiming Adjustment

When performing headlamp aiming adjustment, use an aiming machine, aiming wall screen or headlamp tester. Aimers should be in good repair, calibrated and operated according to their operation manuals. Before performing aiming adjustment, make sure of the following.

a. Keep all tires inflated to correct pressure.

b. Place vehicle on level ground.

 See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools).
 Have the driver or equivalent weight placed in driver's seat.

LOW BEAM

Open the hood.

Adjust the vertical indicator by turning the adjusting screw. The bubble in the gauge should be centered on the "o" mark as shown in the illustration.

Adjust the horizontal indicator by turning the adjusting screw with a Philips screwdriver.

The inner red line with the "o" mark should align with the indicator line.

Never turn screw (A).

Bī

HA

RS

MA

LC

EC

MIT

FA

EL

"H": Height of headlamp centers "M": Main axis of light "W": Distance between headlamp centers NOTE: Dimensions are identical for both "acceptable range" areas : Acceptable range See detail below 7,620 (300.00) W 106 40 (1.6) (4.17) н 40 (1.6) 100 100 (4) (4) Upper edge of light area Unit: mm (in) AEL599

Aiming Adjustment (Cont'd) ADJUSTMENT AFTER HEADLAMP ASSEMBLY REPLACEMENT

If the vehicle has had front body repair or the headlamp assembly has been replaced, check the aiming as shown in the illustration.

Vertical (Up and Down)

Adjust headlamp by turning adjusting screw so that main axis of light "M" is within acceptable range.

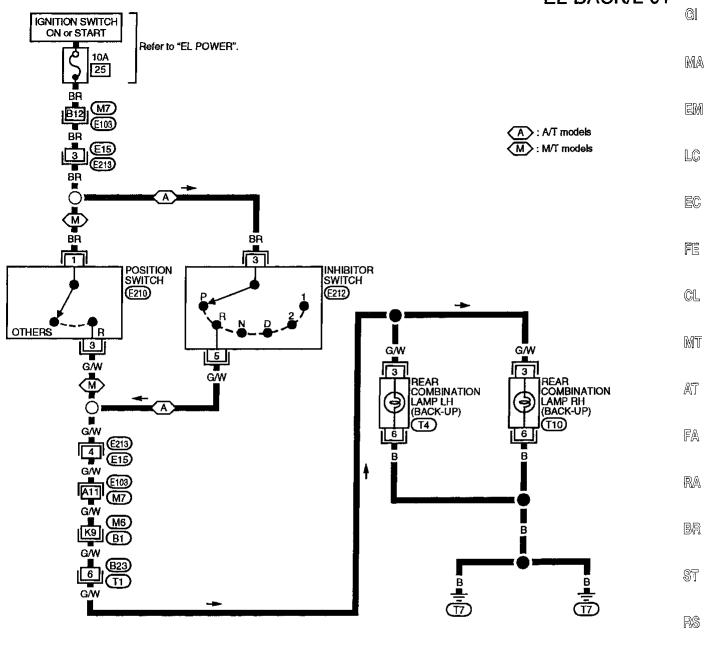
Horizontal (Left to Right)

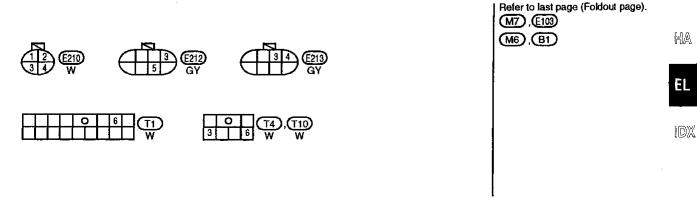
Adjust headlamp by turning adjusting gear so that main axis of light "M" is parallel with vehicle center line.

If the indicators are not in the "Optimal" range, the "OK" range is acceptable.

EL-48 1090

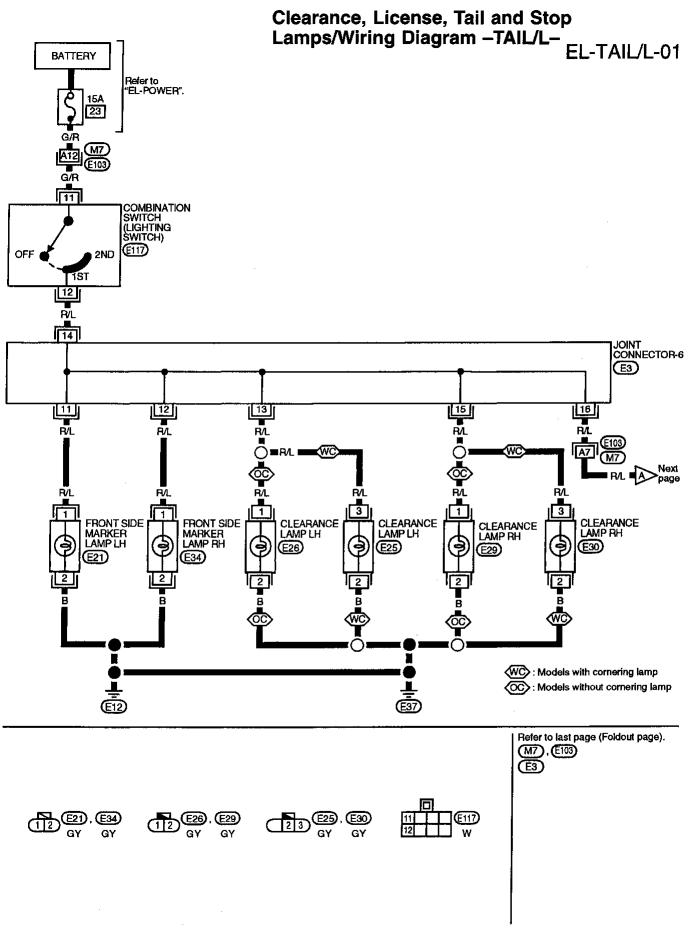
Back-up Lamp/Wiring Diagram -BACK/L-EL-BACK/L-01



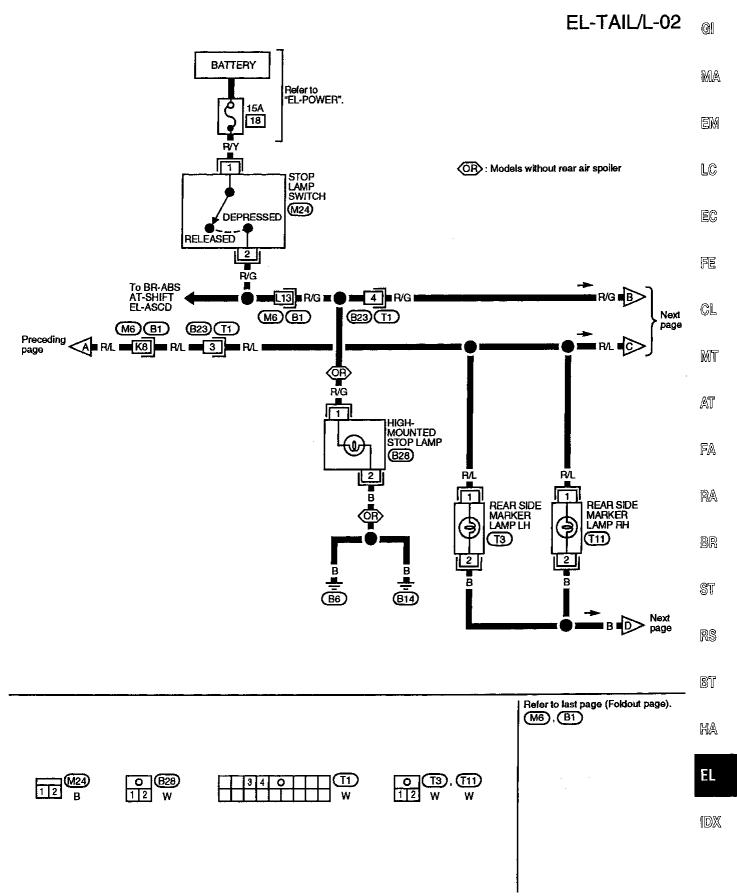


AEL460

BT



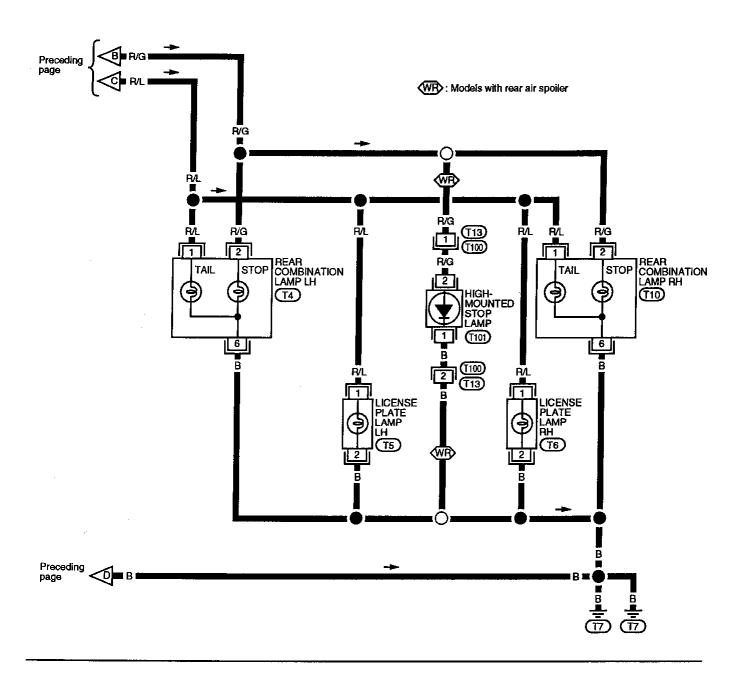
Clearance, License, Tail and Stop Lamps/Wiring Diagram –TAIL/L– (Cont'd)

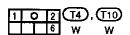


AEL459-B

Clearance, License, Tail and Stop Lamps/Wiring Diagram –TAIL/L– (Cont'd)

EL-TAIL/L-03









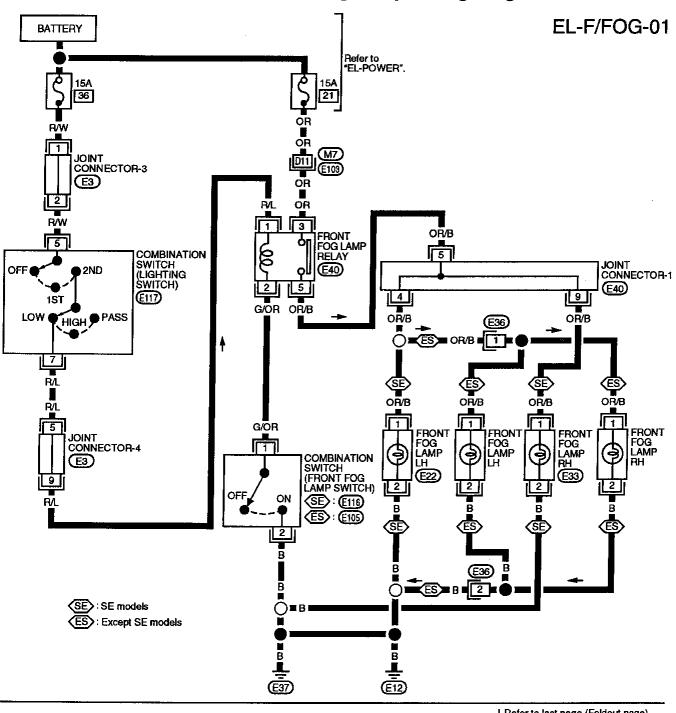


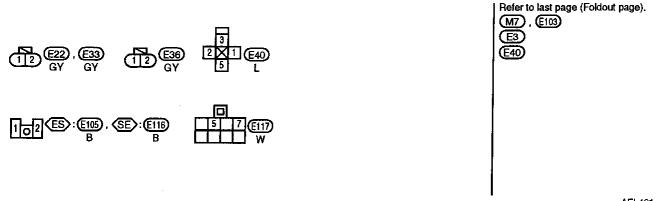
Front Fog Lamp/System Description

Power is supplied at all times to front fog lamp relay terminal ③ through: 15A fuse (No. 21, located in the fuse block). With the lighting switch in the 2ND position and LOW ("B") position, power is supplied through 15A fuse (No. 36, located in the fusible link and fuse box) to lighting switch terminal ⑤ through terminal ⑦ of the lighting switch to front fog lamp relay terminal ①.	GI MA
● to front log lamp relay terminal ①. Fog lamp operation	EM
The front fog lamp switch is built into the combination switch. The lighting switch must be in the 2ND position and LOW ("B") position for fog lamp operation. With the front fog lamp switch in the ON position: ground is supplied to front fog lamp relay terminal ② through the front fog lamp switch and body	LG
grounds (£12) and (£37). The front fog lamp relay is energized and power is supplied from front fog lamp relay terminal (5)	EC
	FE
	GL
	MT
	AT
	FA
	RA
	BR
	ST
	RS
	BT
•	HA

1095

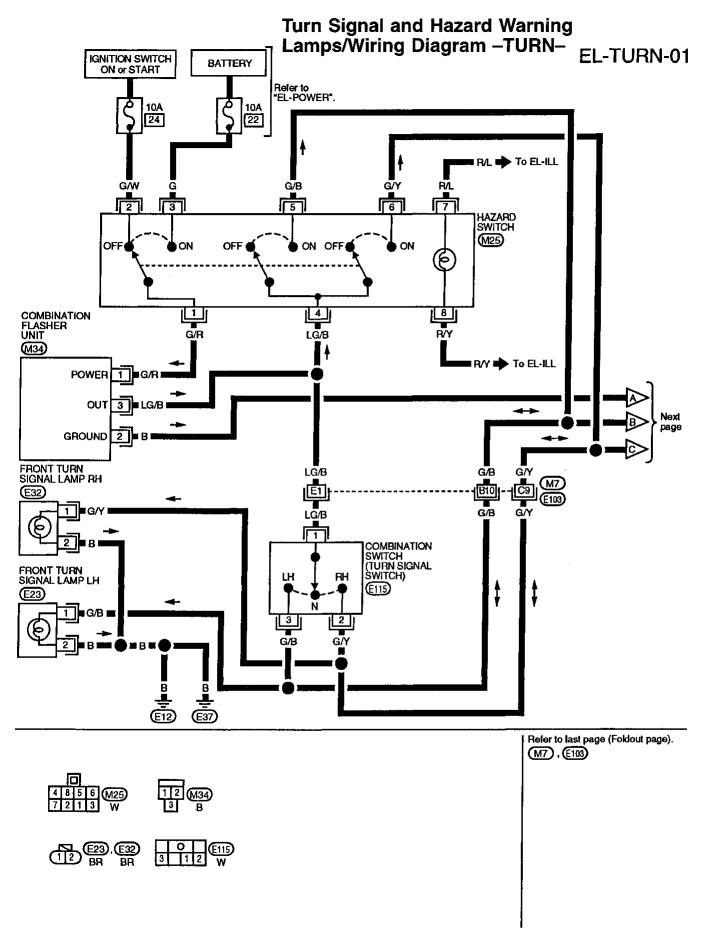
Front Fog Lamp/Wiring Diagram -F/FOG-



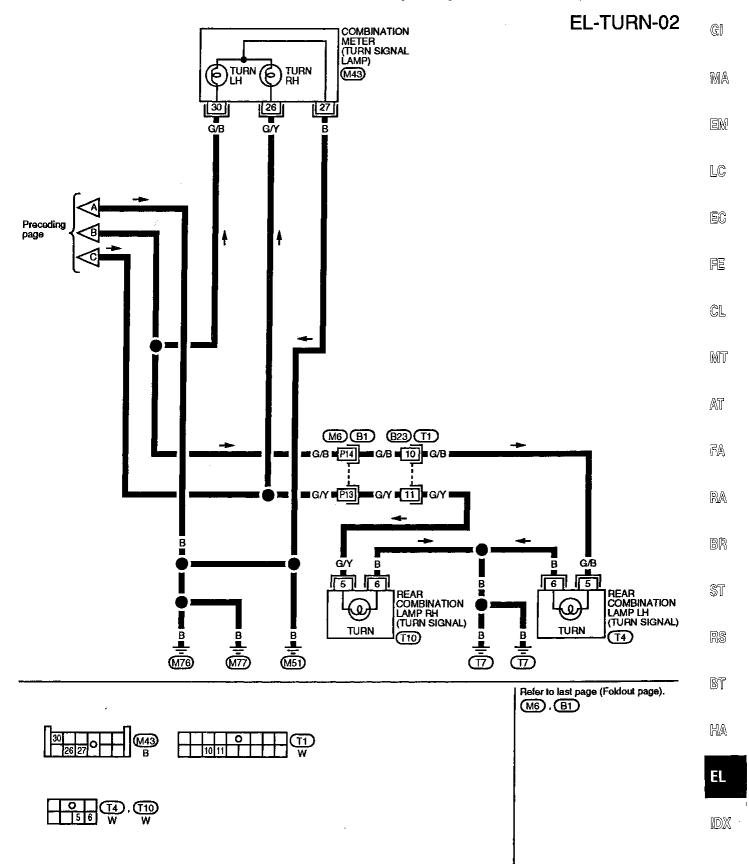


Turn Signal and Hazard Warning Lamps/System Description

TURN SIGNAL OPERATION	GI
With the hazard switch in the OFF position and the ignition switch in the ON or START position, power is supplied	D.C.O.
 through 10A fuse (No. 24), located in the fuse block) to hazard switch terminal (2) 	MA
 through terminal ① of the hazard switch to combination flasher unit terminal ① through terminal ② of the combination flasher unit 	EM
 through terminal ③ of the combination flasher unit to turn signal switch terminal ①. Ground is supplied to combination flasher unit terminal ② through body grounds (M51), (M76) and (M77). 	LC
LH turn	
When the turn signal switch is moved to the LH position, power is supplied from turn signal switch terminal ③ to	EĈ
 front turn signal lamp LH terminal ① rear combination lamp LH terminal ⑤, and 	FE
 combination meter terminal <a>®. Ground is supplied to the front turn signal lamp LH terminal <a>② through body grounds <a>© and <a>©3 	
Ground is supplied to the rear combination lamp LH terminal 6 through body ground 17. Ground is supplied to combination meter terminal 2 through body grounds (M5), (M76) and (M77).	CL
With power and grounds supplied, the combination flasher unit controls the flashing of the LH turn signal lamps.	MT
RH turn	
When the turn signal switch is moved to the RH position, power is supplied from turn signal switch terminal ② to front turn signal lamp RH terminal ①	AT
 front turn signal lamp RH terminal (1) rear combination lamp RH terminal (5), and combination meter terminal (8). 	FA
Ground is supplied to the front turn signal lamp RH terminal ② through body grounds E12 and E37. Ground is supplied to the rear combination lamp RH terminal ⑥ through body ground T7. Ground is supplied to combination meter terminal ② through body grounds M51, M76 and M77. With power and grounds supplied, the combination flasher unit controls the flashing of the RH turn sig-	RA
nal lamps.	BR
HAZARD LAMP OPERATION	
Power is supplied at all times to hazard switch terminal ③ through: • 10A fuse (No. 22 , located in the fuse block).	ST
With the hazard switch in the ON position, power is supplied ◆ through terminal ① of the hazard switch	RS
• to combination flasher unit terminal ①	110
 through terminal ③ of the combination flasher unit to hazard switch terminal ④. 	BT
Ground is supplied to combination flasher unit terminal ② through body grounds (M51), (M76) and (M77). Power is supplied through terminal ⑤ of the hazard switch to front turn signal lamp LH terminal ①	ľΔĺΑ
• rear combination lamp LH terminal ⑤, and	HA
• combination meter terminal 39.	£1
Power is supplied through terminal ⑥ of the hazard switch to front turn signal lamp RH terminal ① rear combination lamp RH terminal ⑤, and	EL
combination meter terminal ®.	IDX
Ground is supplied to terminal ② of the front turn signal lamps through body grounds €12 and €37. Ground is supplied to terminal ⑥ of the rear combination lamps through body ground 17. Ground is supplied to combination meter terminal ② through body grounds (15), (17) and (17). With power and ground supplied, the combination flasher unit controls the flashing of the hazard warning lamps.	



Turn Signal and Hazard Warning Lamps/Wiring Diagram -TURN- (Cont'd)



Turn Signal and Hazard Warning Lamps/Trouble Diagnoses

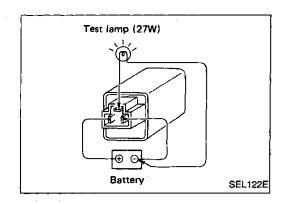
	<u> </u>	
Symptom	Possible cause	Repair order
Turn signal and hazard warning lamps do not operate.	Hazard switch Combination flasher unit Open in combination flasher unit circuit	 Check hazard switch. Refer to combination flasher unit check. Check wiring to combination flasher unit for open circuit.
Turn signal lamps do not operate but hazard warning lamps oper- ate.	1. 10A fuse 2. Hazard switch 3. Turn signal switch 4. Open in turn signal switch circuit	 Check 10A fuse (No. 24), located in fuse block). Turn ignition switch ON and verify battery positive voltage is present at terminal (2) of hazard switch. Check hazard switch. Check turn signal switch. Check LB/G wire between combination flasher unit and turn signal switch for open circuit.
Hazard warning lamps do not operate but turn signal lamps operate.	1. 10A fuse 2. Hazard switch 3. Open in hazard switch circuit	 Check 10A fuse (No. 22 , located in fuse block). Verify battery positive voltage is present at terminal 3 of hazard switch. Check hazard switch. Check LG/B wire between combination flasher unit and hazard switch for open circuit.
Front turn signal lamp LH or RH does not operate.	1. Bulb 2. Grounds (£12) and (£37)	Check bulb. Check grounds (£12) and (£37) .
Rear turn signal lamp LH or RH does not operate.	1. Bulb 2. Ground 17	Check bulb. Check ground
LH and RH turn indicators do not operate.	1. Ground	1. Check grounds (M51), (M76) and (M77).
LH or RH turn indicator does not operate.	1. Bulb	Check bulb in combination meter.

Cornering Lamp/System Description

The lighting switch must be in the 2ND and LOW ("B") or HIGH ("A") position for the cornering lamps to operate. The cornering lamp switch is a part of the combination switch and is controlled by the turn signal lever. The cornering lamps provide additional lighting in the direction of the turn. Power is supplied at all times to terminal (8) of the lighting switch through: 15A fuse (No. 37), located in the fusible link and fuse box). MA With the ignition switch in the ON or START position, power is supplied to cornering lamp relay terminal (3) through: 10A fuse (No. 24, located in the fuse block). EM Power is supplied to cornering lamp relay terminal (1) through terminal 100 of the lighting switch in the 2ND and LOW ("B") position or LC through terminal (9) of the lighting switch in the 2ND and HIGH ("A") position. Ground is supplied to cornering lamp relay terminal (2) through body grounds (£12) and (£37). With power and ground supplied, the cornering lamp relay is energized. EC Power is supplied from terminal (5) of the cornering lamp relay to cornering lamp switch terminal (1). 居邑 When the turn signal lever is moved to the RH position, power is supplied from terminal (i) of the cornering lamp switch CL through terminal @ of the cornering lamp switch to cornering lamp RH terminal (1). Ground is supplied to terminal ② of cornering lamp RH through body grounds (£12) and (£37). MT The RH cornering lamp illuminates until the turn is completed. LH turn AT When the turn signal lever is moved to the LH position, power is supplied from terminal (61) of the cornering lamp switch through terminal (3) of the cornering lamp switch M to cornering lamp LH terminal (1). Ground is supplied to terminal (2) of cornering lamp LH through body grounds (£12) and (£37). The LH cornering lamp illuminates until the turn is completed. RA BR ST RS BT MA

 \mathbb{M}

Cornering Lamp/Wiring Diagram -CORNEŘ-**EL-CORNER-01** IGNITION SWITCH **BATTERY** ON or START Refer to "EL-POWER". 15A 10A 37 24 (U): For U.S.A. (N): For Canada 5 JOINT CONNECTOR-3 (E3) GΥ G/W 3 8 CORNERING LAMP RELAY COMBINATION SWITCH (LIGHTING SWITCH) **E14**) (E117) G/Υ LOW ¶ 🗩 PASS 61 HIGH COMBINATION SWITCH (CORNERING LAMP SWITCH) RH Ш R/B Φ 20 **E**115 JOINT CONNECTOR-6 To EL-DTRL 63 62 B ŌR OR/L 18 CORNERING LAMP LH CORNERING JOINT CONNECTOR 5 R/Y LAMP RH (E30) (E3) (E25) GΥ DIODE R/B (E104) JOINT CONNECTOR -4 ■ R/B **=** 1 DIODE (E104) В - 2 (E37) **E12** Refer to last page (Foldout page). M7 . E103 (E3)



Combination Flasher Unit Check

- Before checking, ensure that bulbs meet specifications.
- Connect a battery and test lamp to the combination flasher unit, as shown. Combination flasher unit is properly functioning if it blinks when power is supplied to the circuit.

MA

EM

LC

Bulb Specifications

	Wattage (12 volt)	Bulb No.	EC
Headlamp (Semi-sealed beam)			
High/Low	60/55	HB2	FE
Front turn signal lamp	27	1156NA	
Cornering lamp/Front clearance lamp	27/5	1157	CL
Front side marker lamp	3.8	194	D/052
Front fog lamp	55		MT
Rear combination lamp			
Turn signal	27	1156	AT
Stop/Tail	27/8	1157	
Back-up	27	1156	FA
Rear side marker lamp	3.8	194	
License plate lamp	5	168	RA
High-mounted stop lamp	13	912	
Interior lamp	8		BR
Front personal lamp	10		
Trunk room lamp	3.4	158	ST

RS

BT

HA

IDX ·

Illumination/System Description

Power is supplied at all times

• through 15A fuse (No. 23, located in the fuse block)

• to lighting switch terminal 11.

The lighting switch must be in the 1ST or 2ND position for illumination.

The illumination control switch is a thumbwheel that controls the amount of current to the illumination system. As the amount of current increases, the illumination becomes brighter.

The ashtray illumination and the glove box lamp are not controlled by the illumination control switch. The intensity of these lamps does not change.

The following chart shows the power and ground connector terminals for the components included in the illumination system.

Component	Power terminal	Ground terminal
Radio	8	7
CD player*	23	25
Auto A/C amplifier*	(3)	14
Push control module*	(16)	16
PTC*	27 **	39
A/T device indicator*	3	4
Hazard switch	7	8
Main power window and door lock switch	3	8
Ashtray	①	2
Combination meter	(1)	40
Clock*	(5)	3
ASCD main switch*	⑤	6
Rear window defogger switch	<u>\$</u>	6
Glove box lamp*	2	①
Illumination control switch	①	3

^{*} If equipped.

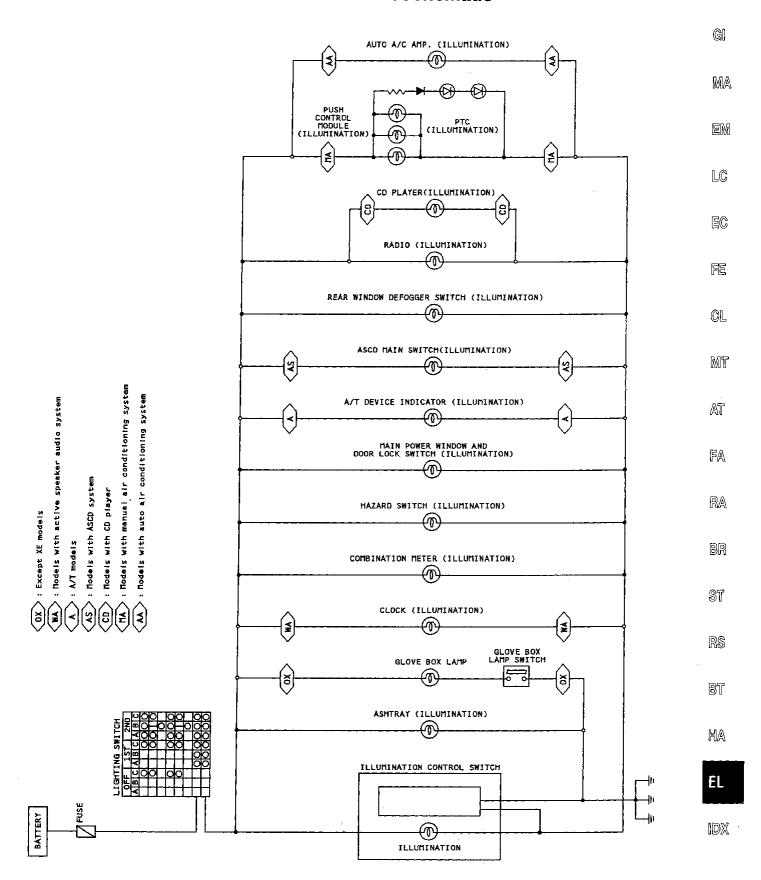
With the exception of the glove box lamp and the ashtray illumination, the ground for all of the components are controlled through terminals (4) and (5) of the illumination control switch and body grounds (45), (475) and (477).

When the glove box is open, glove box lamp terminal (1) is grounded through the glove box lamp switch and body grounds (M51), (M76) and (M77).

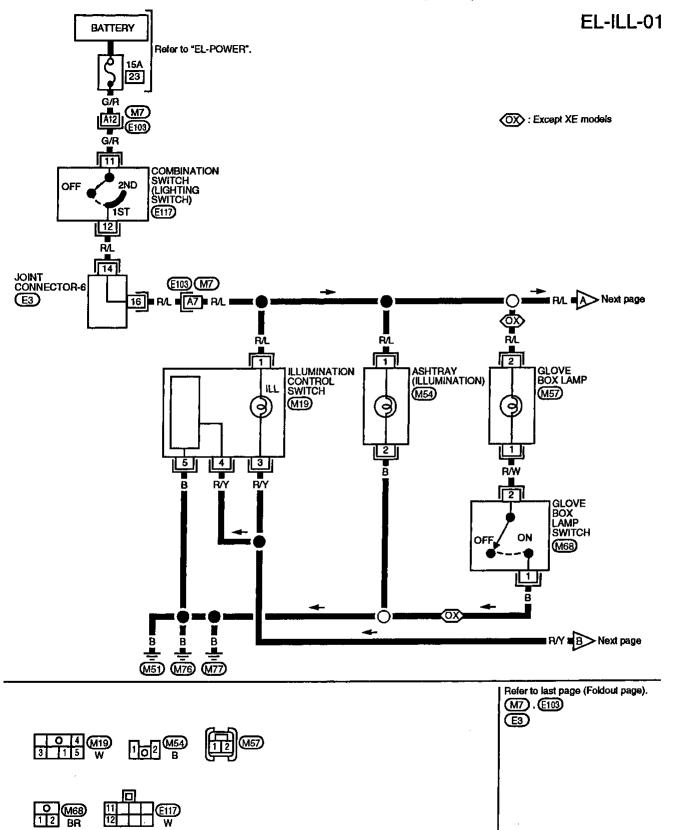
The ashtray illumination terminal ② is grounded directly through body grounds (M51), (M76) and (M77).

^{**} Power supplied to PTC terminal ② is supplied through terminal ② of the push control module.

Illumination/Schematic

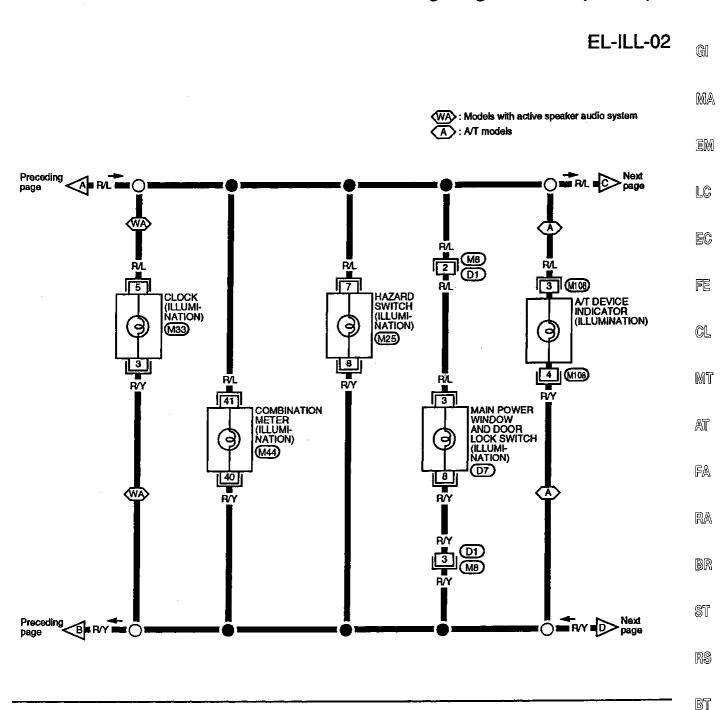


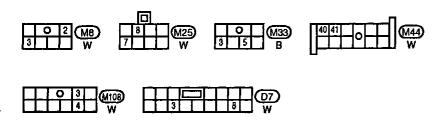
Illumination/Wiring Diagram -ILL-



INTERIOR LAMP

Illumination/Wiring Diagram -ILL- (Cont'd)





AEL464-B

HA

EL

IDX

Illumination/Wiring Diagram -ILL- (Cont'd)

EL-ILL-03

(AS): Models with ASCD system

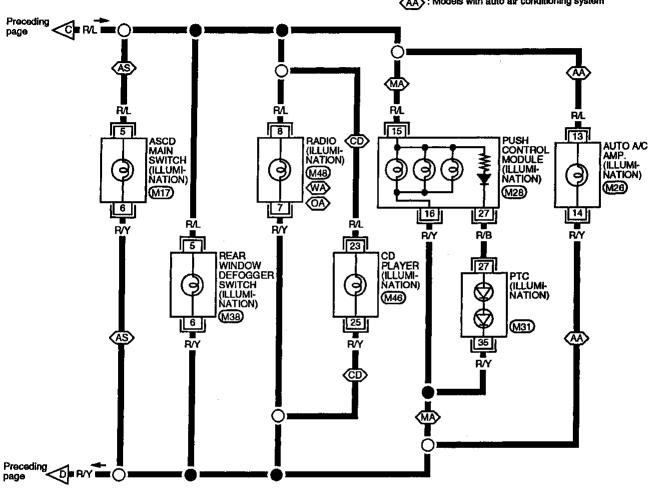
(WA): Models with active speaker audio system

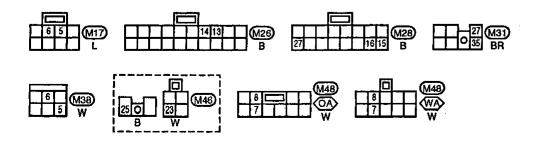
OA: Models without active speaker audio system

CD: Models with CD player

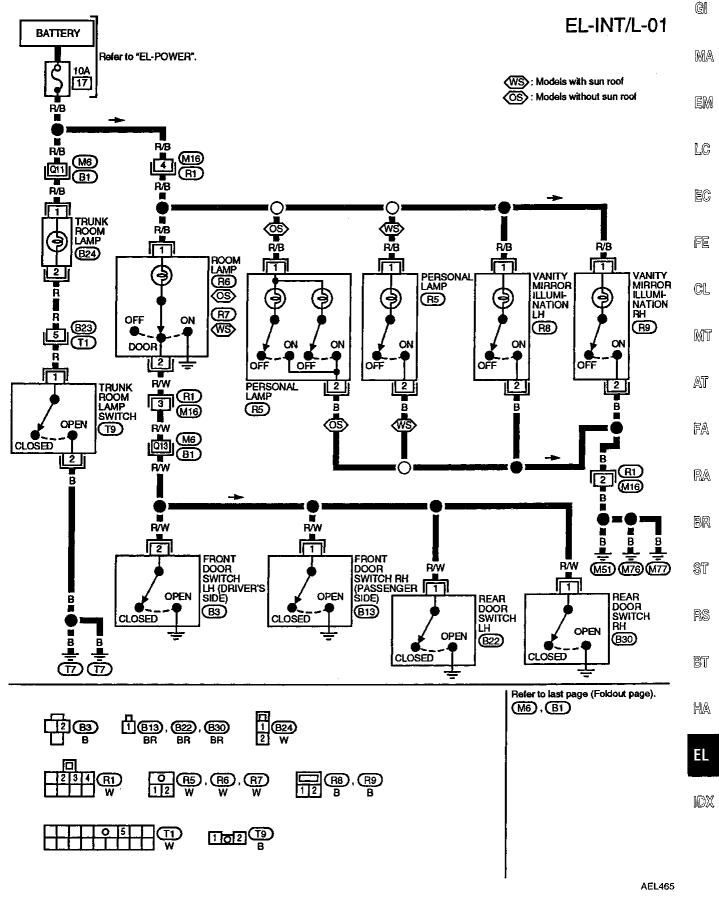
MA: Models with manual air conditioning system

(AA): Models with auto air conditioning system





Interior, Personal and Trunk Room Lamps/Wiring Diagram –INT/L–



METERS AND GAUGES

System Description

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse (No. 25, located in the fuse block)
- to combination meter terminal (3) for the water temperature gauge,
- combination meter terminal 2 for the tachometer and
- combination meter terminal 2 for the fuel gauge and speedometer.

Ground is supplied

- to combination meter terminal 38
- through body grounds (M5), (M76) and (M77).

The water temperature gauge indicates the engine coolant temperature. The reading on the gauge is based on the resistance of the the thermal transmitter.

As the temperature of the coolant increases, the resistance of the thermal transmitter decreases. A variable ground is supplied to terminal ③ of the combination meter for the water temperature gauge. The needle on the gauge moves from "C" to "H".

The tachometer indicates engine speed in revolutions per minute (rpm).

The tachometer is regulated by a signal

- from terminal ③ of the ECM (ECCS control module)
- to combination meter terminal (35) for the tachometer.

The fuel gauge indicates the approximate fuel level in the fuel tank.

The fuel gauge is regulated by a variable ground signal supplied

- to combination meter terminal 4 for the fuel gauge
- from terminal ① of the fuel tank gauge unit
- through terminal ③ of the fuel tank gauge unit and
- through body grounds (B6) and (B14).

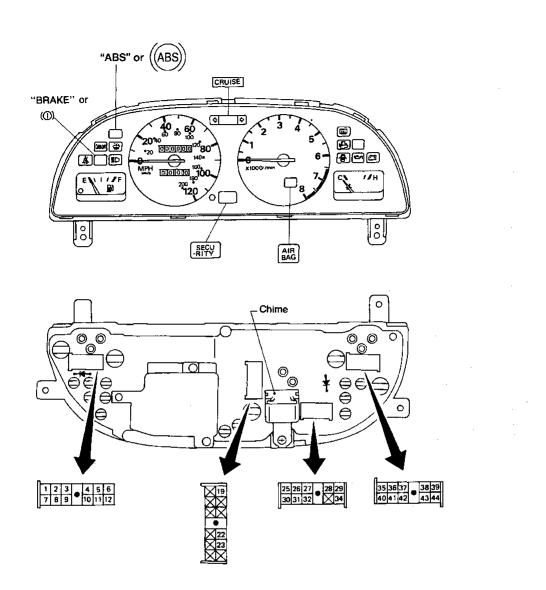
The vehicle speed sensor provides a voltage signal to the combination meter for the speedometer.

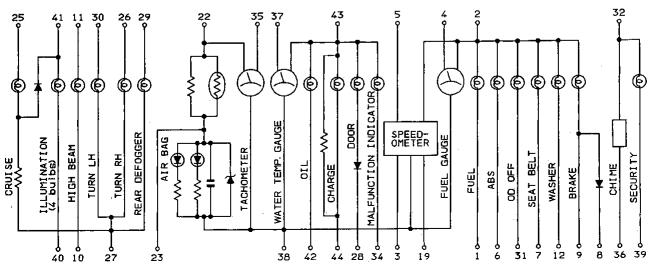
The voltage is supplied

- to combination meter terminals ③ and ⑨ for the speedometer
- from terminals 1 and 2 of the vehicle speed sensor.

The speedometer converts the voltage into the vehicle speed displayed.

Combination Meter





AEL492

GI

 $\mathbb{A}\mathbb{M}$

EM

LC

EC

FE

CL

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 $\mathbb{R}\mathbb{A}$

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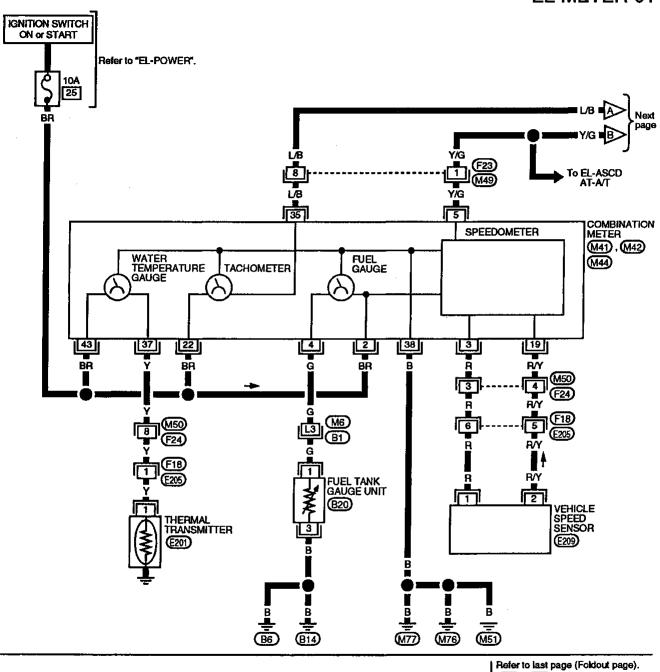
BT

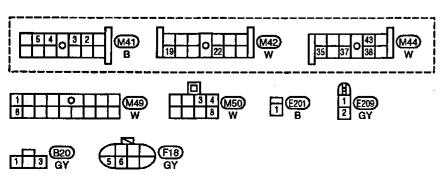
 $\mathbb{H}\mathbb{A}$

EL

Speedometer, Tachometer, Temp. and Fuel Gauges/Wiring Diagram –METER–

EL-METER-01



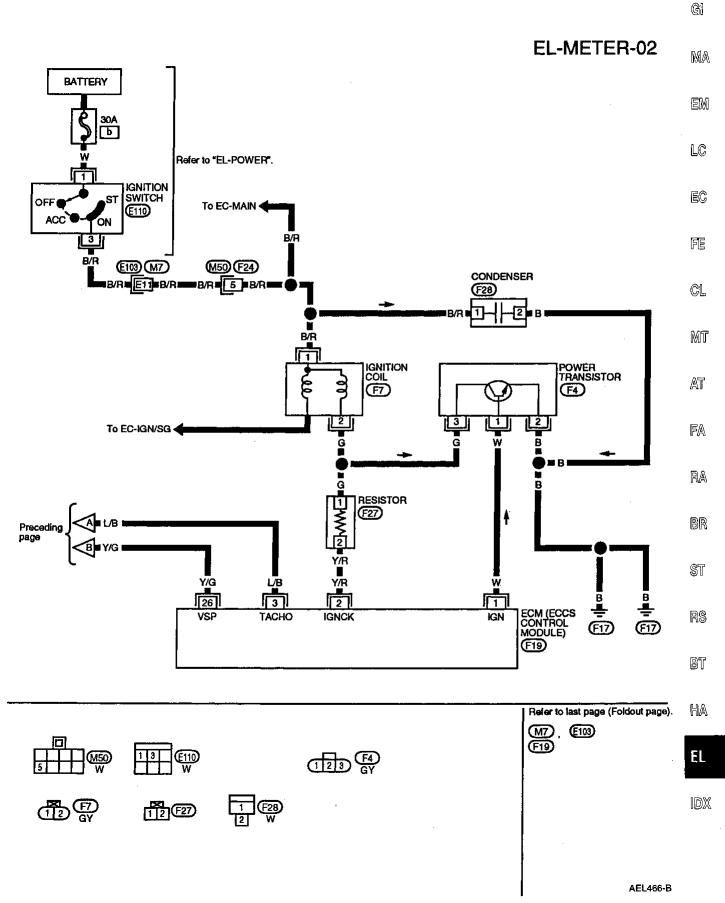


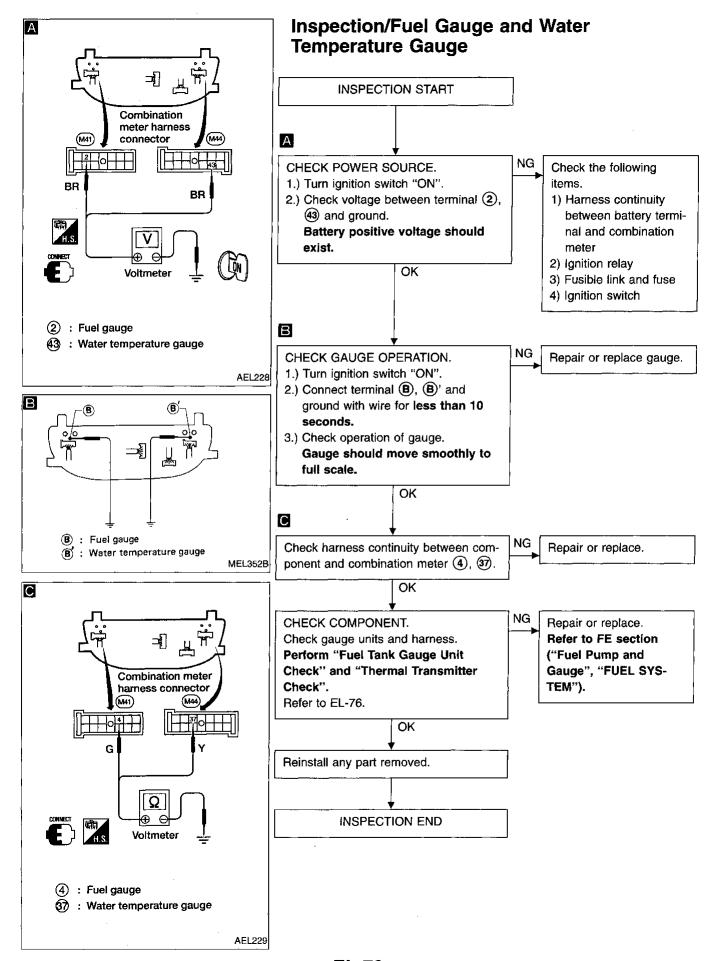
Refer to last page (Foldout page).

(M6) (B1)

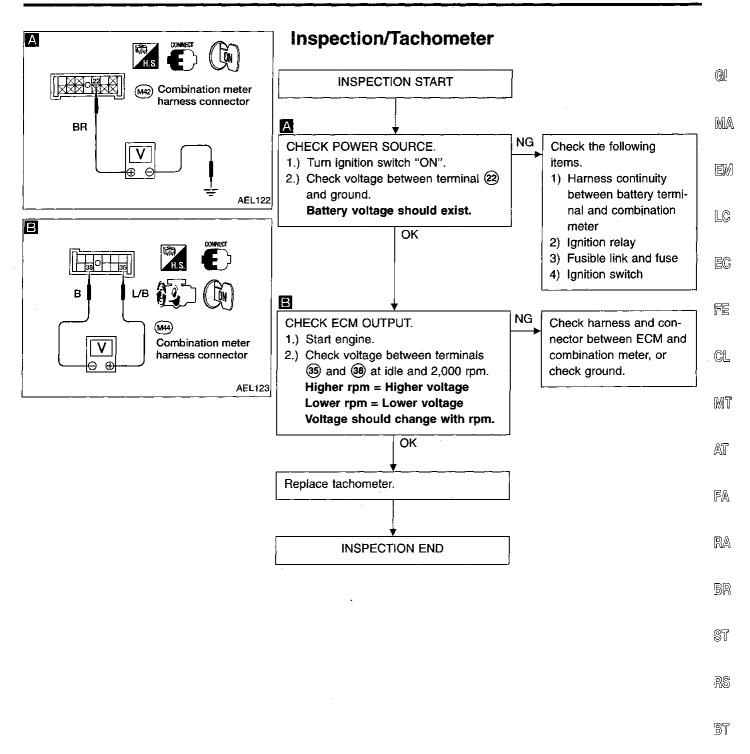
AEL466-A

Speedometer, Tachometer, Temp. and Fuel Gauges/Wiring Diagram –METER– (Cont'd)





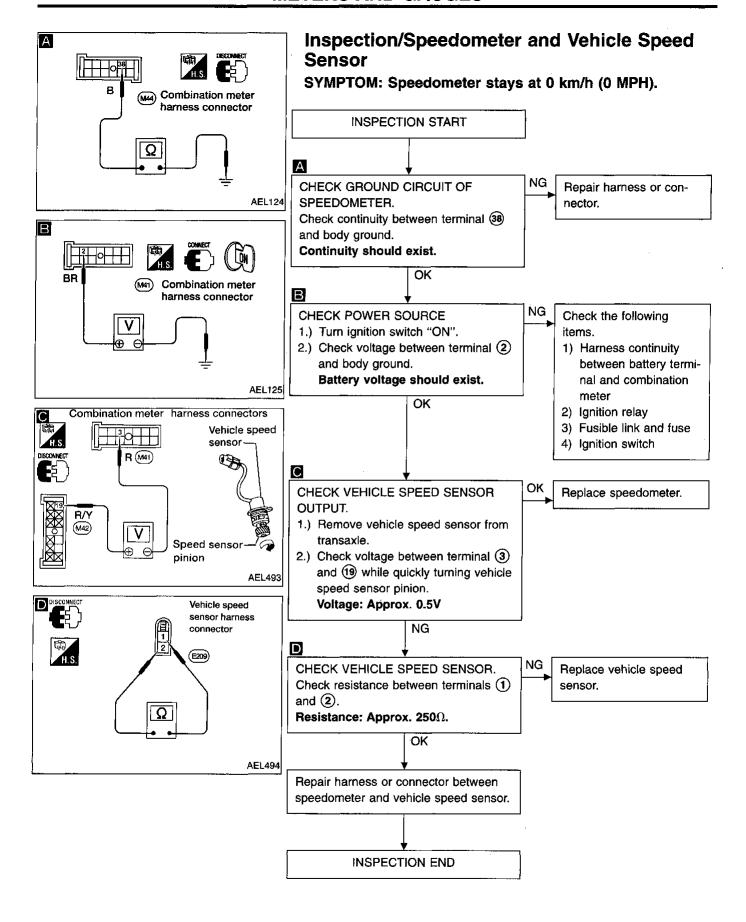
METERS AND GAUGES



EL-73

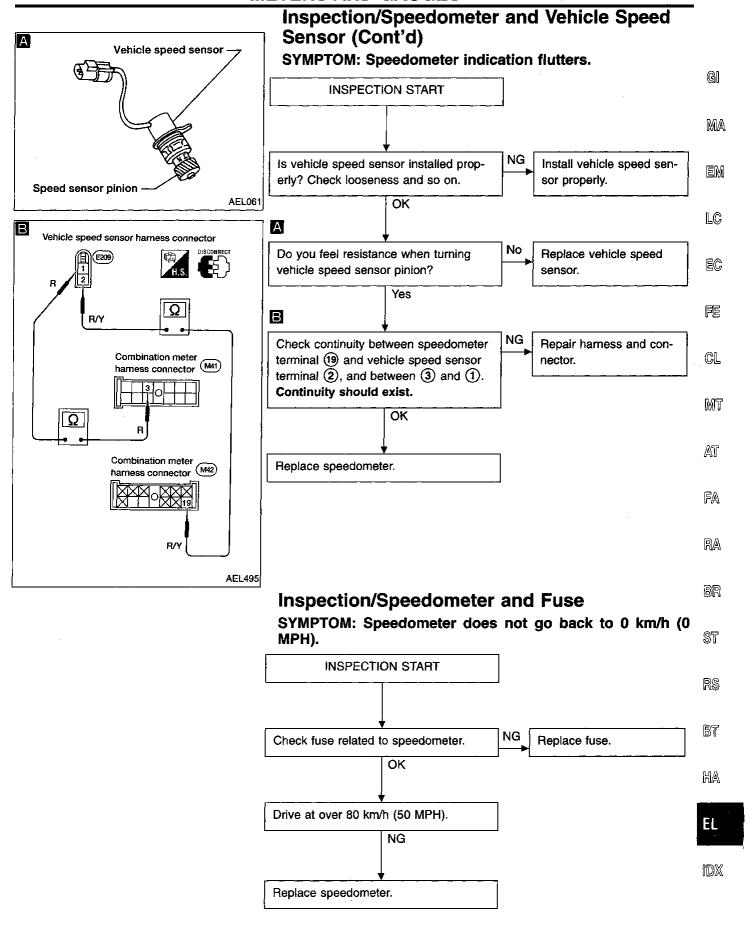
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[D)X

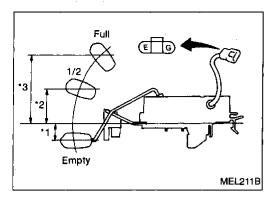


EL-74

METERS AND GAUGES



EL-75

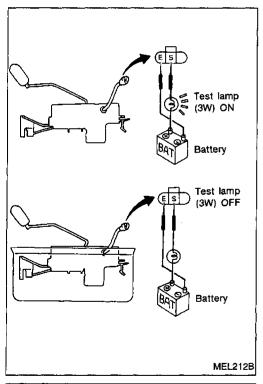


Fuel Tank Gauge Unit Check

 For removal, refer to FE section ("Fuel Pump and Gauge", "FUEL SYSTEM").

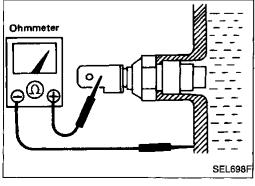
Check the resistance between terminals (G) and (E).

Ohmmeter			Resistance value					
(+)	(-)		(Ω)					
	*3		Full	80.5 (3.169)	Approx. 4.5 - 6			
G	E *2	1/2	29.4 (1.157)	Approx. 31.5 - 33.5				
		*1	Empty	19.0 (0.748)	Approx. 80 - 83			



Fuel Warning Lamp Sensor Check

It will take a short time for the bulb to light.

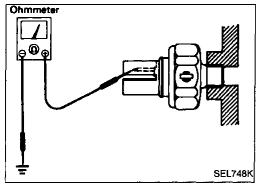


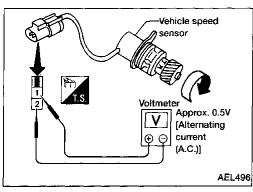
Thermal Transmitter Check

Check the resistance between the terminals of thermal transmitter and body ground.

Water temperature	Resistance
60°C (140°F)	Approx. 70 - 90Ω
100°C (212°F)	Approx. 21 - 24Ω

METERS AND GAUGES





Oil Pressure Switch Check

	Oil pressure kPa (kg/cm², psi)	Continuity
Engine start	More than 10 - 20 (0.1 - 0.2, 1.4 - 2.8)	NO
Engine stop	Less than 10 - 20 (0.1 - 0.2, 1.4 - 2.8)	YES

Check the continuity between the terminals of oil pressure switch and body ground.

Vehicle Speed Sensor Signal Check

- 1. Remove vehicle speed sensor from transaxle.
- 2. Turn vehicle speed sensor pinion quickly and measure voltage across (1) and (2).

GI

MA

EM

LC

EC

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MT

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FA

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WARNING LAMPS AND CHIME

Warning Lamps/System Description

If equipped with theft warning system, power is supplied at all times

- through 10A fuse (No. 20 , located in the fuse block)
- to combination meter terminal @ for the security lamp.

Ground for the security lamp is supplied when the system is activated

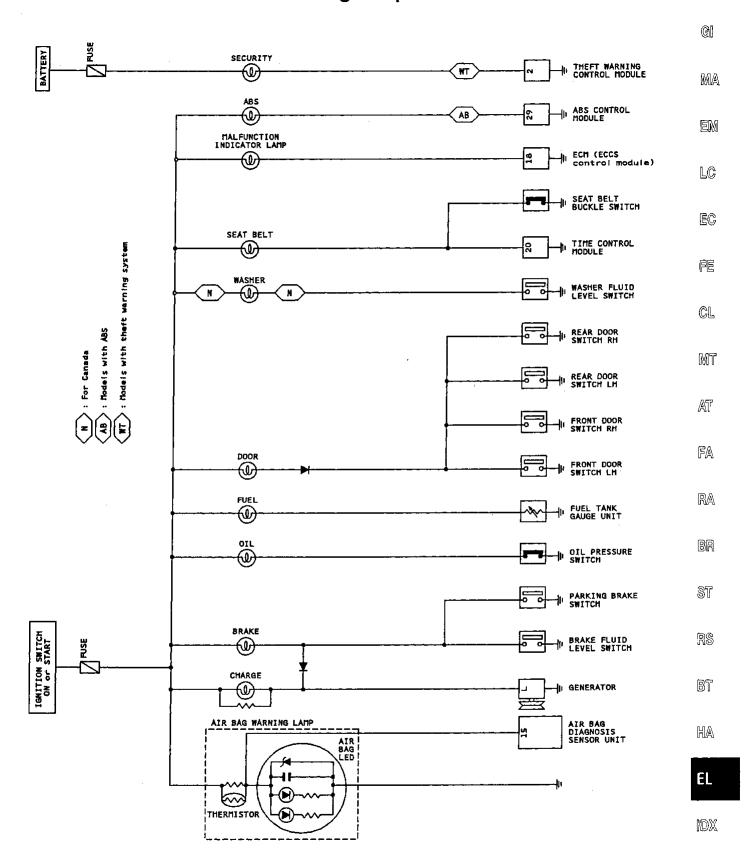
- to combination meter terminal 39
- from terminal ② of the theft warning control module.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse (No.25, located in the fuse block)
- to combination meter terminal @ for the air bag warning lamp
- to combination meter terminal 2.

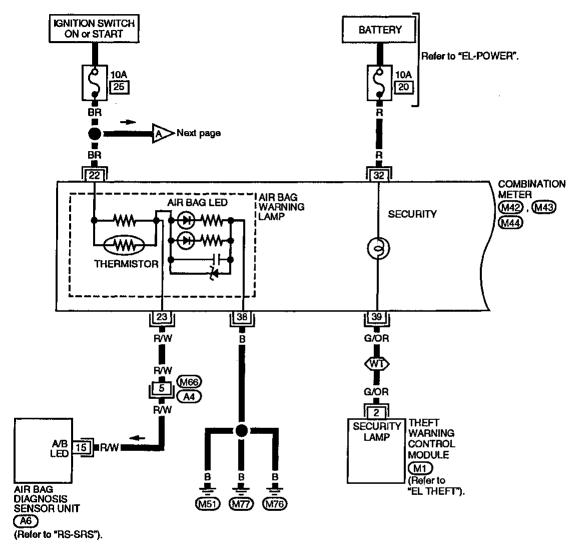
Ground is supplied for each of the warning lamps through different terminals of the combination meter. For details of power and ground terminals for the warning lamps in the combination meter, refer to "Combination Meter", "METERS AND GAUGES".

Warning Lamps/Schematic

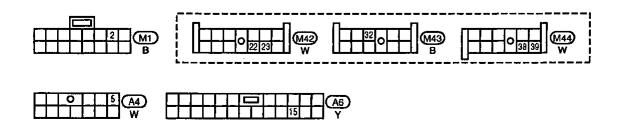


Warning Lamps/Wiring Diagram -WARN-

EL-WARN-01

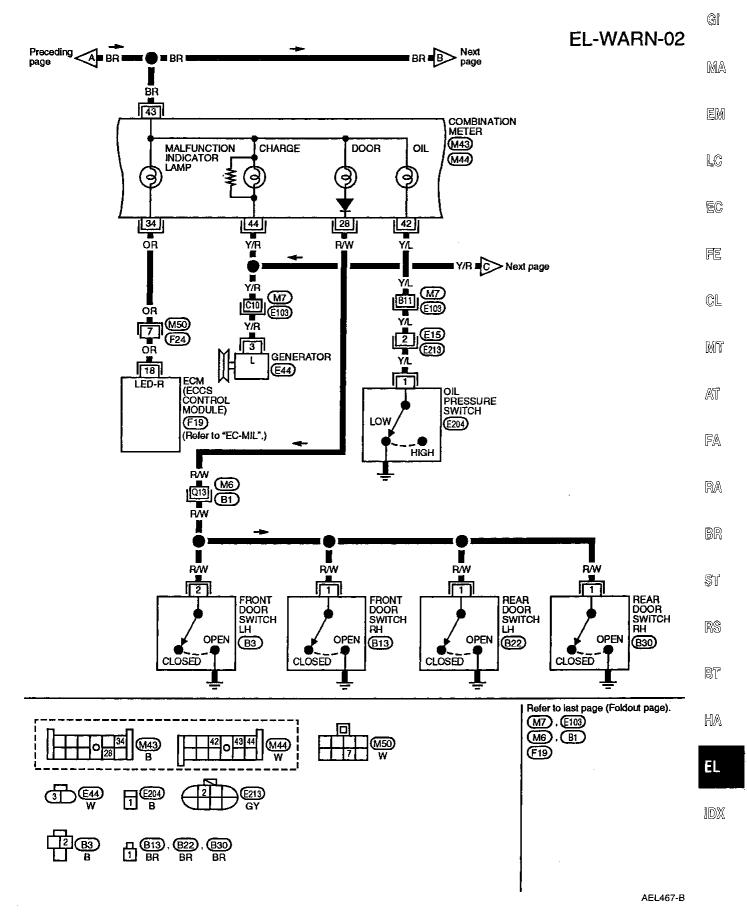


(WT): Models with theft warning system

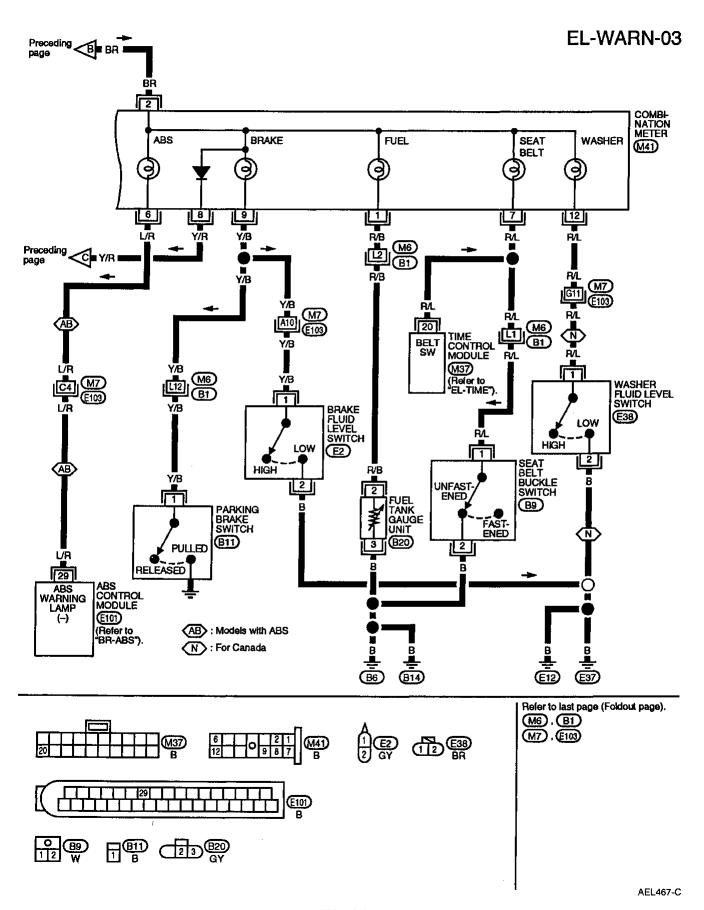


WARNING LAMPS AND CHIME

Warning Lamps/Wiring Diagram –WARN– (Cont'd)



Warning Lamps/Wiring Diagram –WARN– (Cont'd)



WARNING LAMPS AND CHIME

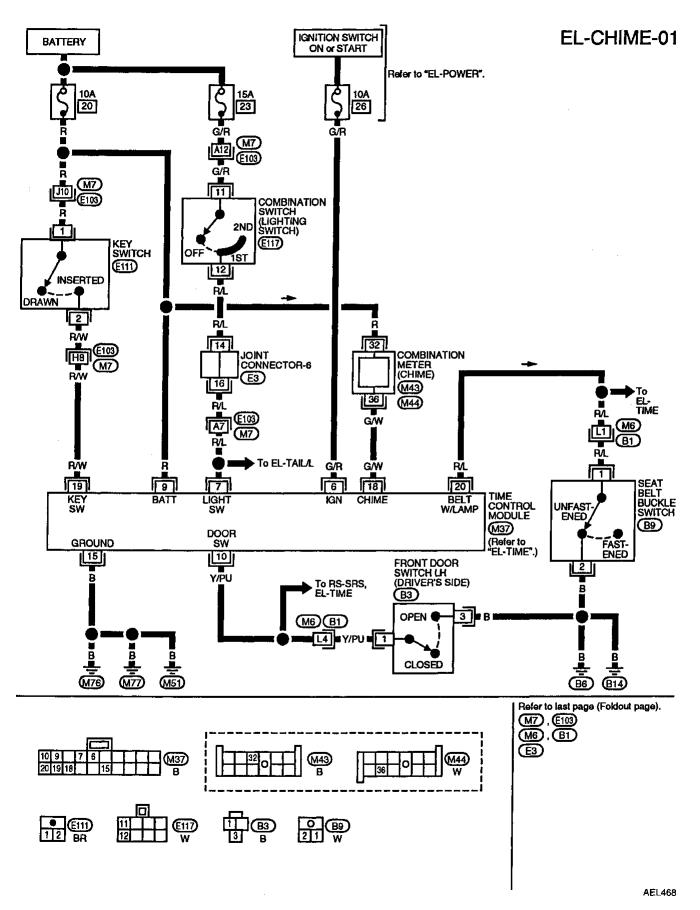
Warning Chime/System Description The warning chime is a part of the combination meter and is controlled by the time control module.

The warning chime is a part of the combination meter and is controlled by the time control module.	
Power is supplied at all times	Gi
• through 10A fuse (No. 20, located in the fuse block)	
• to time control module terminal (9),	
• combination meter terminal 32, and	MA
• key switch terminal ①.	
Power is supplied at all times	
• through 15A fuse (No. 23, located in the fuse block)	EM
• to lighting switch terminal 11.	
With the ignition switch in the ON or START position, power is supplied	п 🚓
• through 10A fuse (No. 26 located in the fuse block)	LC
• to time control module terminal 6.	
Ground is supplied to time control module terminal (15) through body grounds (161), (1476) and (1477).	ra
When a signal, or combination of signals, is received by the time control module, ground is supplied	EC
• through time control module terminal 18	
• to combination meter terminal 36.	FE
With power and ground supplied, the warning chime will sound.	ris
Ignition key warning chime	
With the key inserted in the ignition switch in the OFF position, and the driver's door open, the warning	CL
chime will sound. A battery positive voltage signal is sent	⊕
• from key switch terminal ②	
• to time control module terminal (9).	MT
Ground is supplied	000 0
• from front door switch LH terminal (1)	
• to time control module terminal (i).	AT
Front door switch LH terminal ③ is grounded through body grounds (B6) and (B14) .	
Light warning chime	
With the ignition switch in the OFF position, the driver's door open, and the lighting switch in the 1ST or	FA
2ND position, the warning chime will sound. A battery positive voltage signal is sent	
• from lighting switch terminal ②	
• to time control module terminal ⑦.	RA
Ground is supplied	
• from front door switch LH terminal ①	
• to time control module terminal ①.	BR
Seat belt warning chime	<u> </u>
With the ignition switch turned from the OFF position to the ON position, and the seat belt unfastened	ST
(seat belt switch ON), the warning chime will sound for approximately 7 seconds.	
Ground is supplied	ENG)
• from seat belt buckle switch terminal ①	RS
• to time control module terminal @.	
Seat belt buckle switch terminal ② is grounded through body grounds (B6) and (B14).	രെ
For diagnosis, refer to "TIME CONTROL SYSTEM".	BT
	HA
	IUI/A7

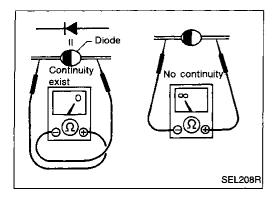
EL

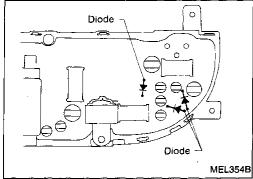
IDX

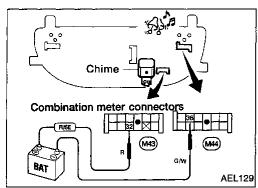
Warning Chime/Wiring Diagram -CHIME-



WARNING LAMPS AND CHIME







Diode Check

• Check continuity using an ohmmeter.

 Diode is functioning properly if test results are as shown in the figure at left.

NOTE: Specifications may vary depending on the type of tester. Before performing this inspection, be sure to refer to the instruction manual for the tester to be used.

 Diodes for warning lamps are built into the combination meter printed circuit.

Refer to EL-69.

Warning Chime Check

Supply battery voltage to warning chime as shown in the illustration.

Warning chime should operate.

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FE

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MT

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System Description

Power is supplied at all times

• to time control module terminal (9)

through 10A fuse (No. 20, located in the fuse block).

With the ignition switch in the ACC or ON position, power is supplied

to time control module terminal ①

• through 10A fuse (No. 12 , located in the fuse block).

With the ignition switch in the ON or START position, power is supplied

to time control module terminal (6)

through 10A fuse (No. 26), located in the fuse block).

Terminal (5) of the time control module is grounded through body grounds (M5), (M76) and (M77).

The time control system controls operation of the

- rear window defogger,
- warning chime and
- front wiper and washer.

Rear Window Defogger

The time control module will operate the rear window defogger for 15 minutes as long as the rear window defogger switch is in the ON position. For detailed description, refer to REAR WINDOW DEFOGGER.

Warning Chime

The time control system will operate the warning chime located on the combination meter under the following conditions:

- key in ignition, ignition switch in OFF position, and driver's door open.
- ignition switch in the OFF position, driver's door open, and lighting switch in the 1ST or 2ND position.
- ignition switch turned from the OFF position to the ON position, and the seat belt unfastened.

For detailed description, refer to "WARNING LAMPS AND CHIME", (EL-83).

Front Wiper and Washer

The time control system controls operation of the intermittent feature for the front wiper. It also controls wiper motor for the washer operation.

For detailed description, refer to "FRONT WIPER AND WASHER", (EL-101).

System Description (Cont'd)

FUNCTION

• Time control module has the following functions.

Item	Details of control		
Intermittent wiper control	Regulates intermittent time from approximately 1 to 20 seconds depending on the intermittent wiper volume setting.		
Washer and wiper combination control	Wiper is operated in conjunction with washer switch.		
Light warning chime timer	When driver's door is opened with lighting switch ON and ignition switch OFF, warning chime sounds.		
Ignition key warning chime timer	When driver's door is opened with the key in the ignition and the ignition switch OFF, warning chime sounds.		
Seat belt warning chime timer	Sounds warning chime for about 7 seconds if ignition switch is turned "ON" when seat belt switch is "ON" (seat belt is unfastened).		
Rear defogger timer	Rear defogger operates for about 15 minutes when defogger switch is ON.		

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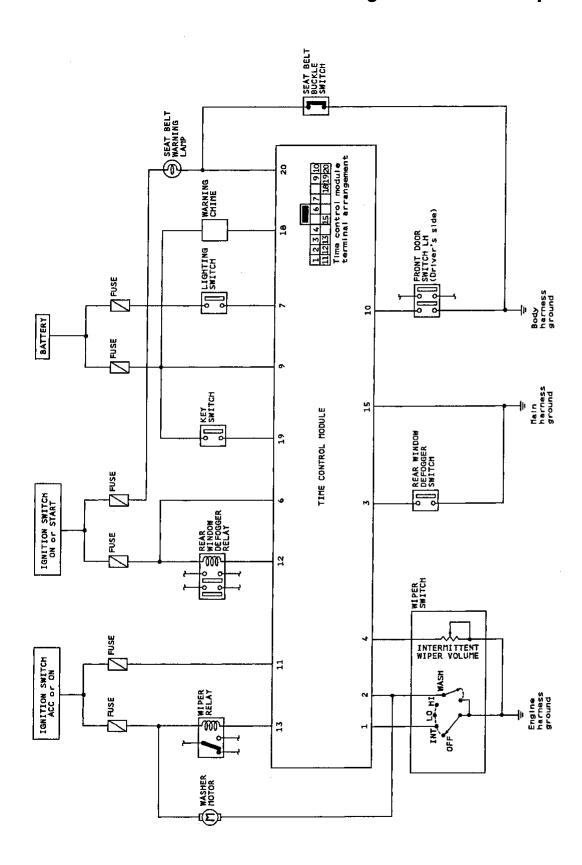
RS

BT

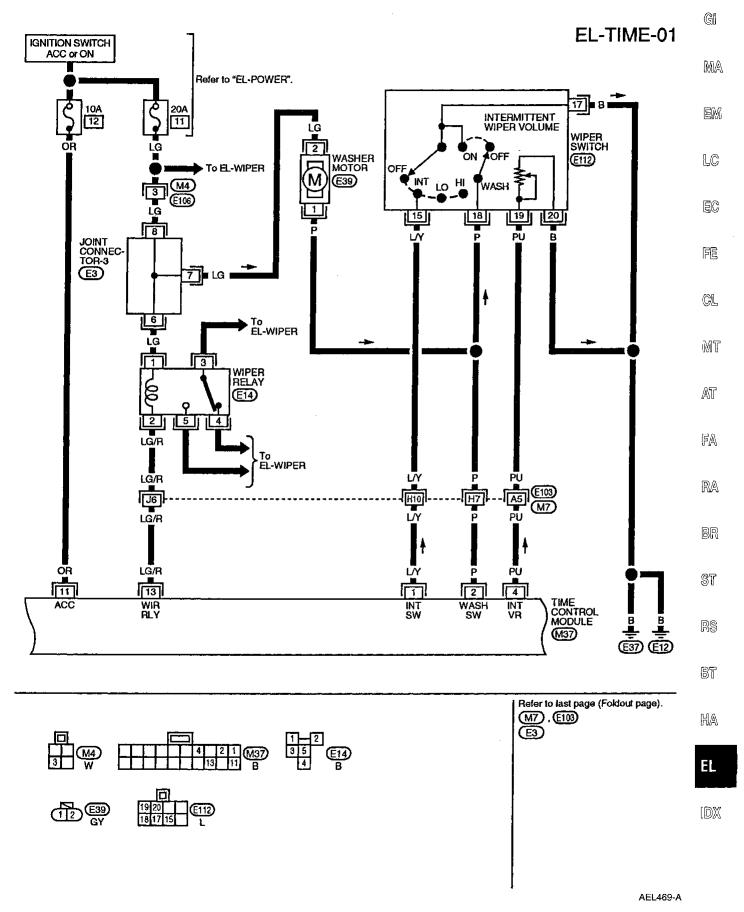
HA

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Circuit Diagram for Quick Pinpoint Check

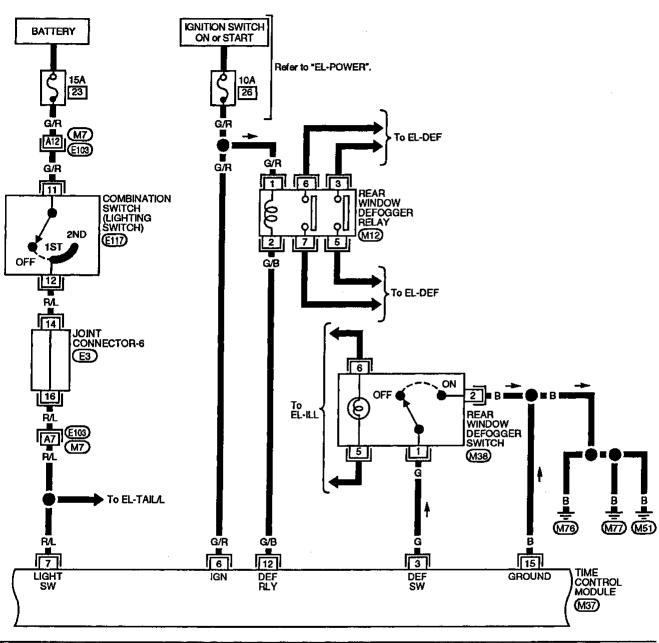


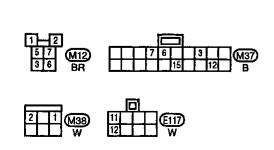
Wiring Diagram -TIME-



Wiring Diagram -TIME- (Cont'd)

EL-TIME-02



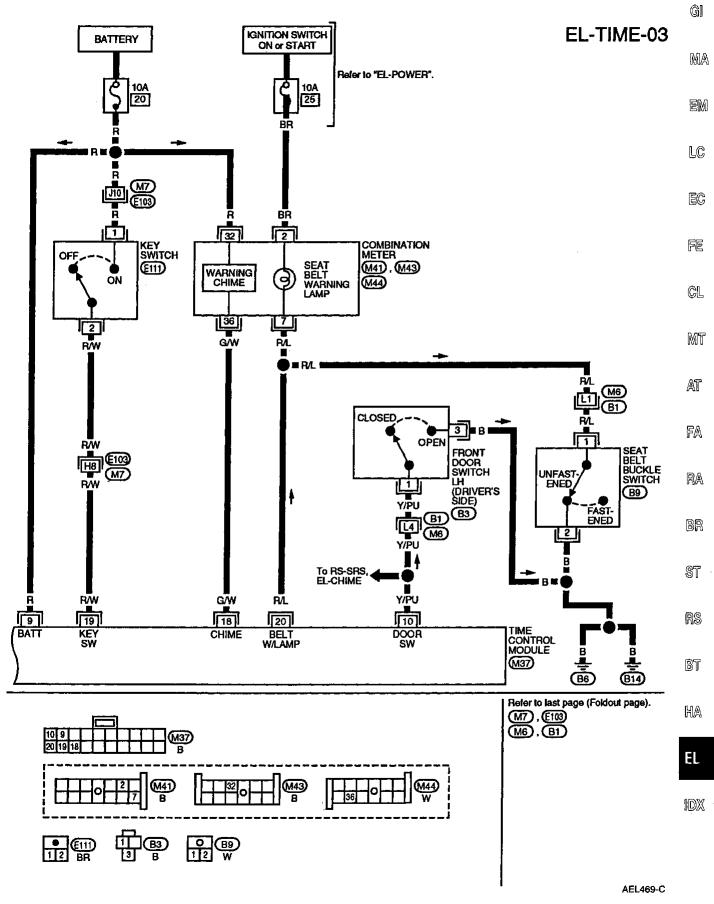


Refer to last page (Foldout page).

M7 , (£103)

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Wiring Diagram -TIME- (Cont'd)



Trouble Diagnoses

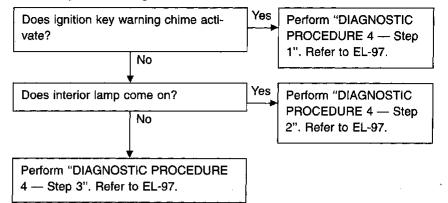
SYMPTOM CHART

PROCEDURE		Preliminary Check			Main Power Supply and Ground Circuit Check	Diagnostic Procedure						
REFERENCE PAGE		EL-93	EL-93	EL-93	EL-94	EL-95	EL-96	EL-96	EL-97	EL-98	EL-99	EL-100
SYMPTOM		Preliminary check 1	Preliminary check 2	Preliminary check 3	Main power supply and Ground circuit check	Diagnostic Procedure 1	Diagnostic Procedure 2	Diagnostic Procedure 3	Diagnostic Procedure 4	Diagnostic Procedure 5	Diagnostic Procedure 6	Diagnostic Procedure 7
her	Intermittent wiper does not operate.				0	0	-					
x was	Intermittent time of wiper cannot be adjusted.						0					
Wiper & washer	Wiper and washer activate individually but not in combination.						•	0	-			
	Light warning chime does not activate.	0			0				0			
Warning	Ignition key warning chime does not activate.		0		0					0		
3	Seat belt warning chime does not activate.			0	0						0	
Rear defogger	Rear defogger does not activate, or go off after acti- vating.				0							0

Trouble Diagnoses (Cont'd) PRELIMINARY CHECK

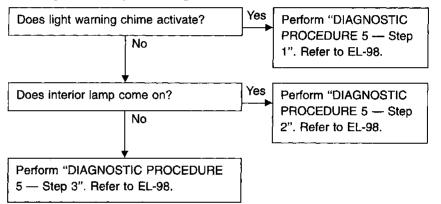
Preliminary check 1

Light warning chime does not activate.



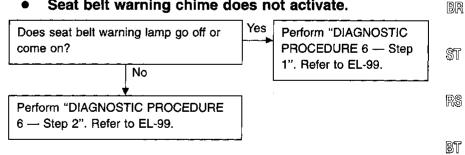
Preliminary check 2

Ignition key warning chime does not activate.



Preliminary check 3

Seat belt warning chime does not activate.



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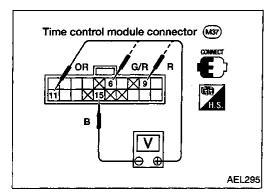
MT

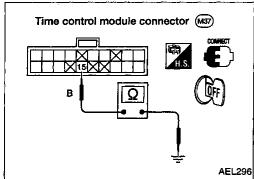
AT

FA

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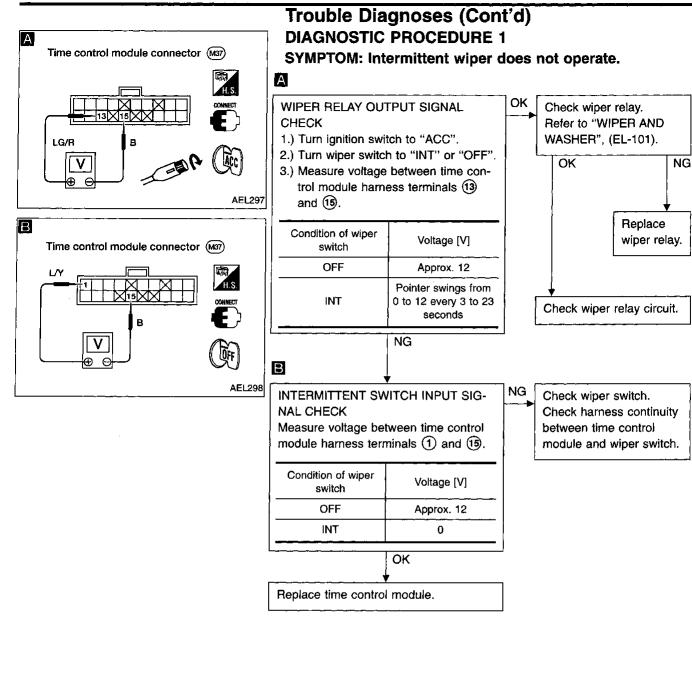
Trouble Diagnoses (Cont'd) MAIN POWER SUPPLY AND GROUND CIRCUIT CHECK Main power supply

ľ	Battery positive voltage existence condition				
Terminals	Ignition switch position				
	OFF	ACC	ON		
9 - 15	Yes	Yes	Yes		
6 - 15	No	No	Yes		
11 - 13	No	Yes	Yes		

Ground circuit

Terminals	Continuity
15 - Ground	Yes

EL-94 1136



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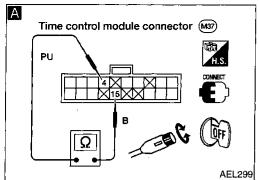
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Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 2

SYMPTOM: Intermittent time of wiper cannot be adjusted.

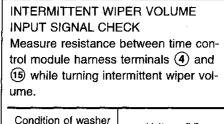
OK

ULE.*

TRY A KNOWN GOOD

TIME CONTROL MOD-

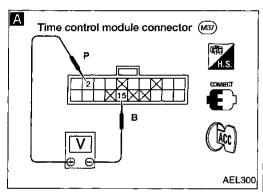
Α

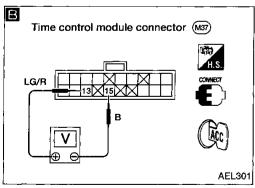


Condition of washer switch	Voltage [V]				
OFF	Approx. 12				
ON	0				
	NG				

Check intermittent wiper volume.

Check harness continuity between time control module and wiper switch.





DIAGNOSTIC PROCEDURE 3

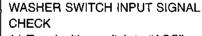
SYMPTOM: Wiper and washer activate individually but not in combination.

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- 1.) Turn ignition switch to "ACC".
- Measure voltage between time control module harness terminals (2) and (15).

Resistance $[\Omega]$
0
Approx. 1 k

TIME CONTROL MODULE SIGNAL

CHECK
Measure voltage between time control module harness terminals (13) and (15) after operating washer switch.

OK

0V for approx. 3 seconds after washer has operated.

Check wiper relay and circuit.

TIME CONTROL MOD-ULE.*

TRY A KNOWN GOOD

Check harness continuity

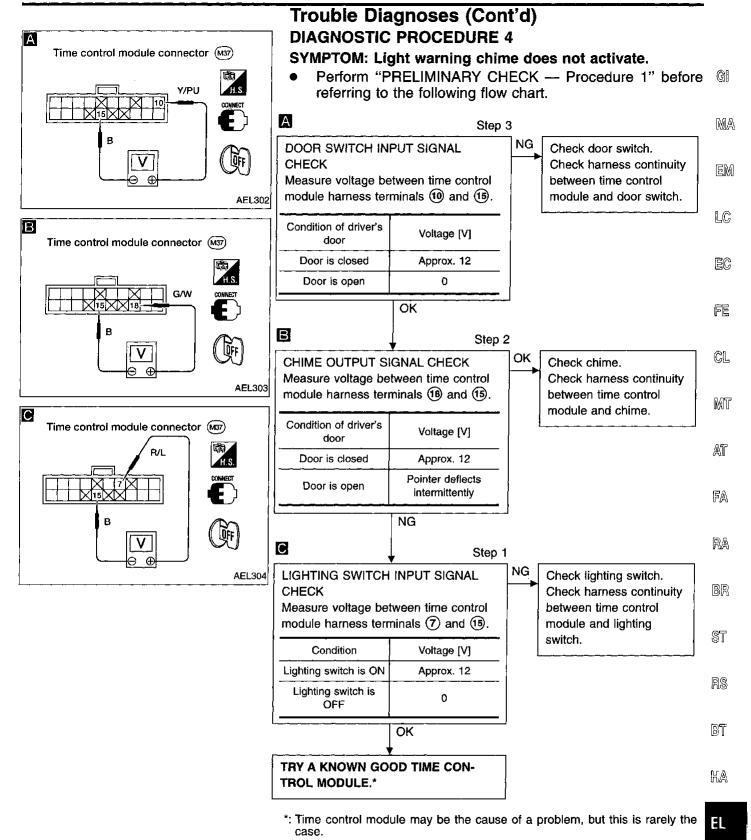
between time control

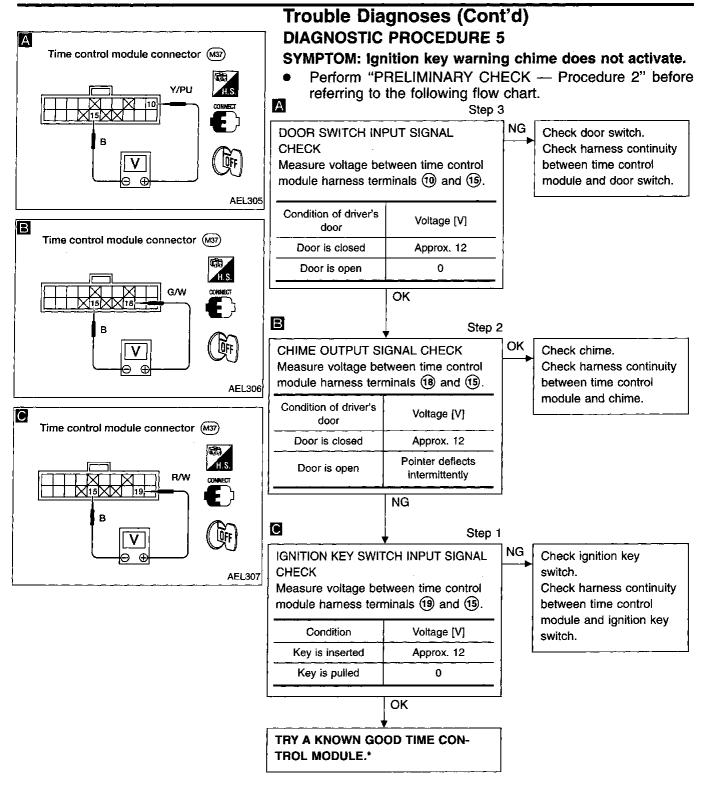
module and washer

switch.

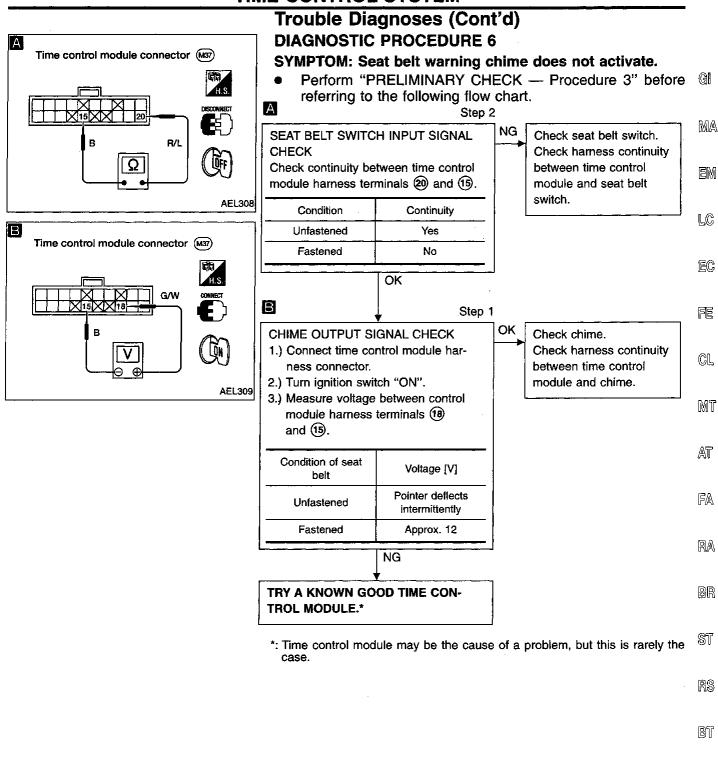
Repair wiper circuit or replace wiper relay.

^{*:} Time control module may be the cause of a problem, but this is rarely the case.

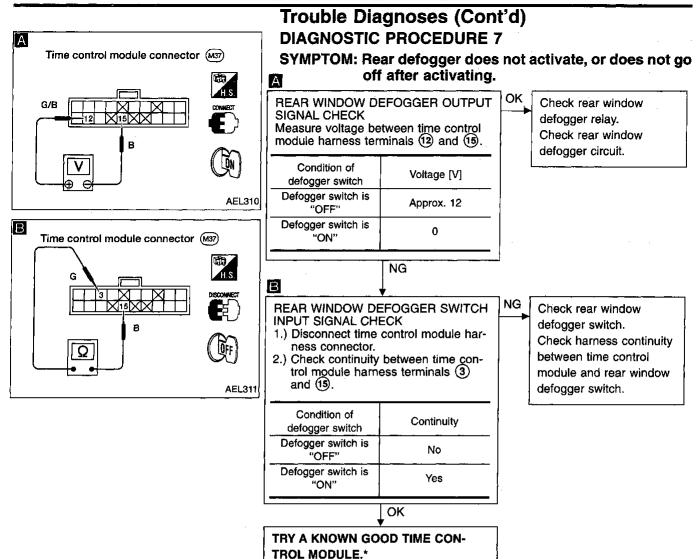




*: Time control module may be the cause of a problem, but this is rarely the case.



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^{*:} Time control module may be the cause of a problem, but this is rarely the case.

EL-100 1142

WIPER AND WASHER

System Description

WIPER OPERATION	æ.π
The wiper switch is controlled by a lever built into the combination switch.	GI
There are three wiper switch positions:	
• LO speed	MA
● Hi speed	
INT (Intermittent) With the indition prison of the ACC or CN position requests are plied.	
With the ignition switch in the ACC or ON position, power is supplied	
• through 20A fuse (No. 11 , located in the fuse block)	
• to wiper motor terminal ④.	
	LC
Ground is supplied to wiper switch terminal ① through body grounds £12 and £37.	
When the wiper switch is placed in the LO position, ground is supplied	EC
• to wiper motor terminal ②.	
With power and ground supplied, the wiper motor operates at low speed.	FE
When the Wiper Switch is placed in the Fit position, ground is supplied	u
 through terminal (6) of the wiper switch to wiper motor terminal (3). 	
With power and ground supplied, the wiper motor operates at high speed.	CL
with power and ground supplied, the wiper motor operates at high speed.	
Auto stop operation	
When the wiper switch is placed in the OFF position, the wiper motor will continue to operate until the	MT
wiper arms reach the base of the windshield.	
When the wiper switch is placed in the OFF position, ground is supplied ■ from terminal ④ of the wiper switch	052
 to wiper motor terminal ②, in order to continue wiper motor operation at low speed. 	AT
The ground path to terminal (4) of the wiper switch is supplied	
	FA
• to wiper relay terminal ③	II <i>I</i> -11
through terminal ④ of the wiper relay	
	RA
through terminal 6 of the wiper_motor, and	
• through body grounds (M51), (M76) and (M77).	
	BR
windshield.	
Intermittent operation	ST
intermittent operation can be set or variable depending on the model option, The wiper motor operates	Ø.1
the wiper arms one time at low speed at a set interval of approximately 1 to 20 seconds. This feature is	
controlled by the time control module.	RS
when the wiper switch is placed in the INT position, ground is supplied	
• to time control module terminal ①	
• from wiper switch terminal (5)	BT
• through body grounds £12 and £37.	
The desired interval time is input	
• to time control module terminal ④ • from winer switch terminal ④	HA
 from wiper switch terminal (9). Based on these two inputs, an intermittent ground is supplied 	
	C I
• from time control module terminal ③.	ËL
With power and ground supplied, the wiper relay is activated.	
	IDX
to wiper motor terminal ②	מיציבונו
• through the wiper switch terminal 14	
• to wiper switch terminal (3)	
• through wiper relay terminal ③	
• to wiper relay terminal ⑤	

WIPER AND WASHER

System Description (Cont'd)

• through body grounds (£12) and (£37).

The wiper motor operates at low speed at the desired time interval. For further diagnosis, refer to "TIME CONTROL SYSTEM".

WASHER OPERATION

With the ignition switch in the ACC or ON position, power is supplied

- through 20A fuse (No. III), located in the fuse block)
- to washer motor terminal (2).

When the lever is pulled to the WASH position, ground is supplied

- to washer motor terminal ①, and
- to time control module terminal (2)
- from terminal (18) of the wiper switch
- through terminal (7) of the wiper switch, and
- through body grounds (£12) and (£37).

With power and ground supplied, the washer motor operates.

The wiper motor operates at low speed for approximately 3 seconds to clean the windshield. This feature is controlled by the time control module in the same manner as the intermittent operation. For further diagnosis, refer to "TIME CONTROL SYSTEM".

WIPER AND WASHER

NOTE

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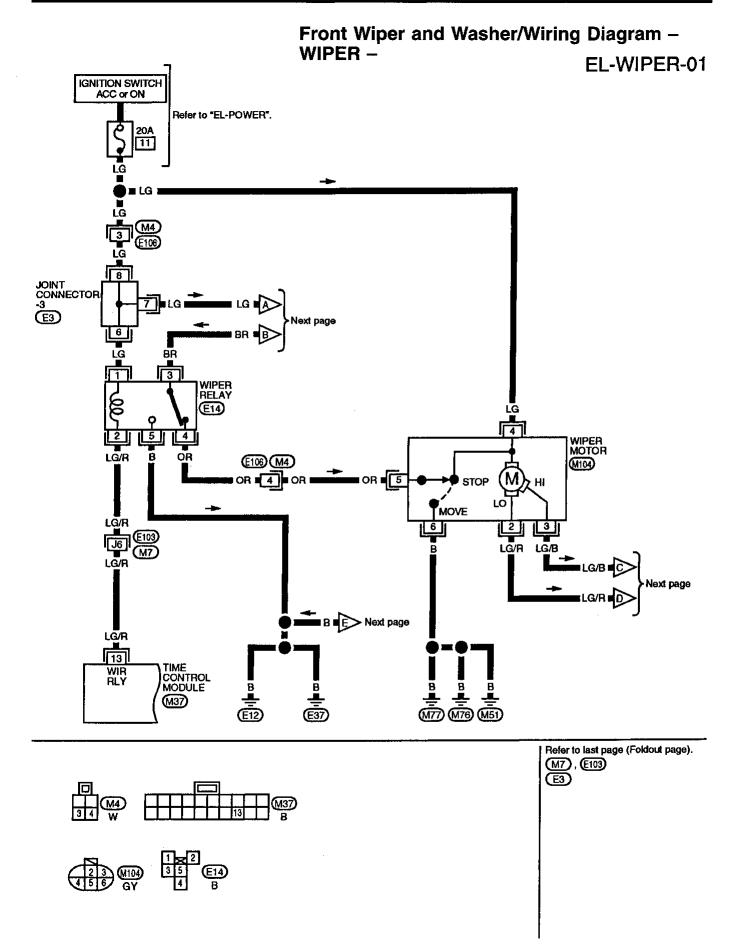
ST

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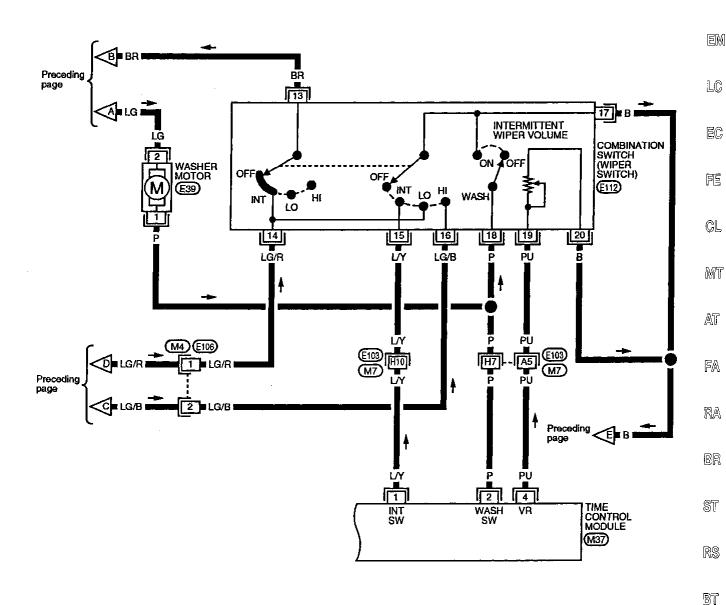


Front Wiper and Washer/Wiring Diagram – WIPER – (Cont'd)

EL-WIPER-02

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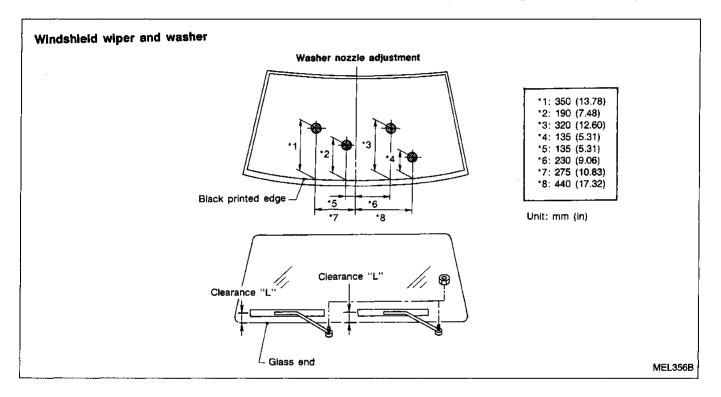
AEL470-B

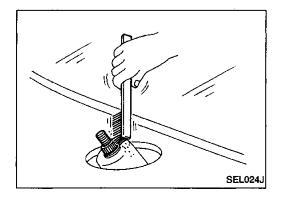
Installation

- 1. Turn ignition ON.
- 2. Prior to wiper arm installation, turn on wiper switch and then turn it "OFF". Allow wiper to operate until its Auto Stop position is reached before turning ignition off.
- 3. Lift the blade up and then set it down onto glass surface. Set the blade center to clearance "L" just before tightening nut.
- 4. Eject washer fluid. Turn on wiper switch to operate wiper motor and then turn it "OFF".
- 5. Ensure that wiper blades stop within clearance "L". Clearance "L": 27 41 mm (1.06 1.61 in)
- Tighten windshield wiper arm nuts to specified torque.

Windshield wiper:

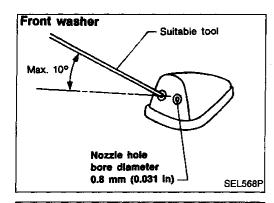
21 - 26 N·m (2.1 - 2.7 kg-m, 15 - 20 ft-lb)

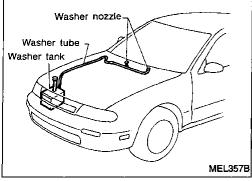




 Before reinstalling wiper arm, clean up the pivot area as illustrated. This will reduce possibility of wiper arm looseness.

WIPER AND WASHER





Washer Nozzle Adjustment

Adjust washer nozzle with suitable tool as shown in the figure at left.

Adjustable range: ±10°

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System Description

Power is supplied at all times

- from 30A fusible link (Letter b , located in the fusible link and fuse box)
- to ignition switch terminal ①.

Power is also supplied

- from 25A fusible link (Letter g , located in the fusible link and fuse box)
- to circuit breaker terminal (1)
- through circuit breaker terminal 2
- to ignition relay-2 (SUN ROOF) terminal (5).

With ignition switch in ON or START position, power is supplied

- through ignition switch terminal ③
- to ignition relay-2 (SUN ROOF) terminal (1).

Ground is supplied to ignition relay-2 (SUN ROOF) terminal ②

through body grounds (£12) and (£37).

The ignition relay-2 (SUN ROOF) is energized and power is supplied

- through terminal (3)
- to main power window and door lock switch terminal 2,
- to power window switch (front RH) terminal 2,
- to power window switch (rear LH) terminal (2), and
- to power window switch (rear RH) terminal (2).

Ground is supplied

- to main power window and door lock switch terminal
- through body grounds (M51), (M76) and (M77).

MANUAL OPERATION

Front door LH

WINDOW UP

When the main power window switch front LH is pressed in the up position, power is supplied

- to front power window motor LH terminal (1)
- through main power window and door lock switch terminal ②.

Ground is supplied

- to front power window motor LH terminal ②
- through main power window and door lock switch terminal (6).

Then, the motor raises the window until the switch is released.

WINDOW DOWN

When the main power window switch front LH is pressed in the down position, power is supplied

- to front power window motor LH terminal ②
- through main power window and door lock switch terminal 16.

Ground is supplied

- to front power window motor LH terminal (1)
- through main power window and door lock switch terminal 12.

Then, the motor lowers the window until the switch is released.

Except front LH door

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

- through main power window and door lock switch terminal (13). (14)
- to power window switch (front RH) terminal (3, 1).

The subsequent operations are the same as those outlined under "Operation by sub-switches". Operation by sub-switches

Power is supplied

- through power window switch (front RH) terminal (6, 4)
- to power window motor (front RH) terminal (1), (2).

System Description (Cont'd)

System Description (Cont a)	
Ground is supplied	
• to front power window motor (front RH) terminal (②, ①)	
• through power window switch (front RH) terminal (4, 6)	Gl
• to power window switch (front RH) terminal (1, 3)	
• through main power window and door lock switch terminal (14), (13)	
• to main power window and door lock switch terminal (10)	MA
 through body grounds (M77), (M76), and (M51). Then, the motor raises or lowers the window until the switch is released. 	
REAR DOOR LH	
NOTE:	
Figures in parentheses () refer to terminal Nos. arranged in order when the UP or DOWN section	
of power window switch is pressed.	1 🙈
	LC
Operation by main switch	
Power is supplied • through main newer window and door look switch terminal (4).	EC
 through main power window and door lock switch terminal (1, 6) to power window switch (rear LH) terminal (1, 3). 	Ľ ♥
The subsequent operations are the same as those outlined under "Operation by sub-switches".	
Operation by sub-switches	FE
Power is supplied	-
 through power window switch (rear LH) terminal (4, 6) 	
• to power window motor (rear LH) terminal (①, ②).	CL
Ground is supplied	
 to front power window motor (rear LH) terminal (2, 1) 	D 057
• through power window switch (rear LH) terminal (6, 4)	MT
• to power window switch (rear LH) terminal (3, 1)	
 through main power window and door lock switch terminal (6, 1) 	AT
 to main power window and door lock switch terminal (10) 	Æ
• through body grounds (M77), (M76), and (M51).	
Then, the motor raises or lowers the window until the switch is released.	FA
REAR DOOR RH	ירשו
NOTE:	
Figures in parentheses () refer to terminal Nos. arranged in order when the UP or DOWN section	$\mathbb{R}\mathbb{A}$
of power window switch is pressed.	
Operation by main switch	
Power is supplied	BR
 through main power window and door lock switch terminal (①, ⑥) 	
• to power window switch (rear RH) terminal (①, ③).	@57
The subsequent operations are the same as those outlined under "Operation by sub-switches".	ST
Operation by sub-switches	
Power is supplied	RS
• through power window switch (rear RH) terminal (4, 6)	1116
 to power window motor (rear RH) terminal (①, ②). Ground is supplied 	
■ to front power window motor (rear RH) terminal (②, ①)	BT
• through power window switch (rear RH) terminal (6, 4)	
• to power window switch (rear RH) terminal (③, ①)	
• through main power window and door lock switch terminal ((9, (7))	HA
to main power window and door lock switch terminal (19)	
• through body grounds (M77), (M76), and (M51).	
Then, the motor raises or lowers the window until the switch is released.	EL
AUTO EEATUDE	

AUTO FEATURE

The power window AUTO feature enables the driver to lower the driver's window without holding the window switch in the down position.

The AUTO feature only operates on the driver's window downward movement.

When the main power window switch (front LH) is pressed and released in the AUTO position, ground signal is supplied

1151

System Description (Cont'd)

to front power window motor LH terminal ①

• through main power window and door lock switch terminal 12.

Power is supplied

• to front power window motor LH terminal ②

through main power window and door lock switch terminal 16.

Then, the front door LH window will travel to the fully open position.

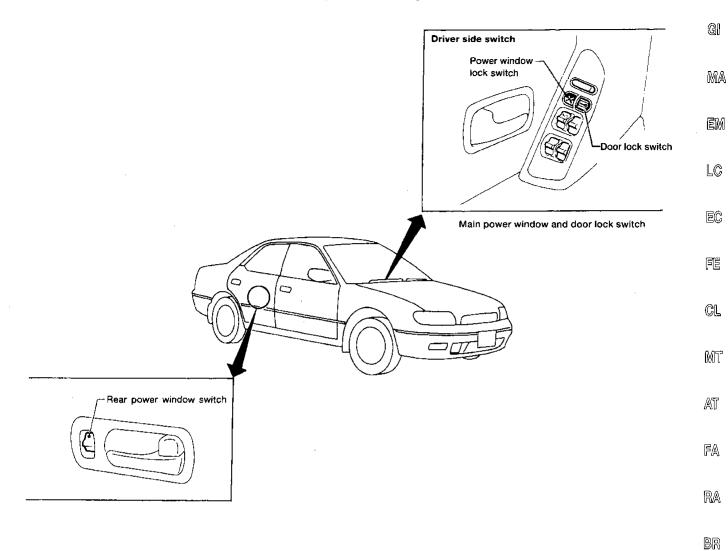
LOCK FEATURE

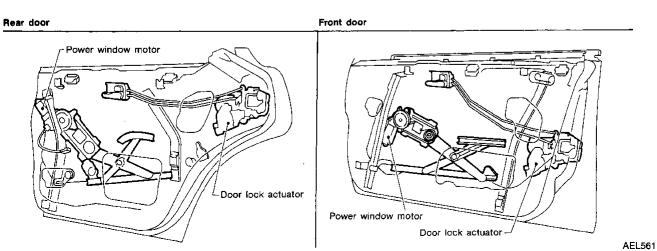
The power window lock is designed to lock-out window operation to all windows except the front door LH window.

When the lock switch is pressed to lock position, ground of the main power window and door lock switch is disconnected. This prevents the power window motors from operating.

EL-110 1152

Component Layout





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1153

ST

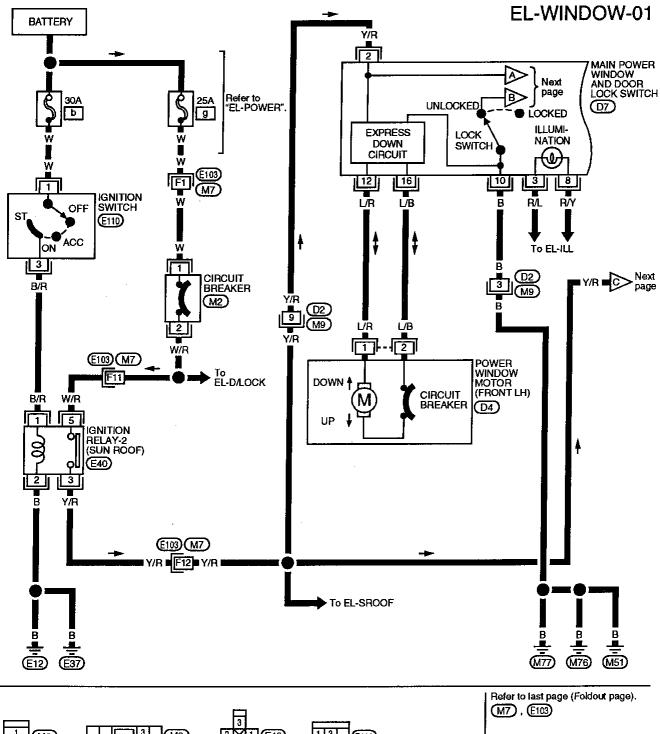
RS

BT

 $\mathbb{A}\mathbb{H}$

IDX

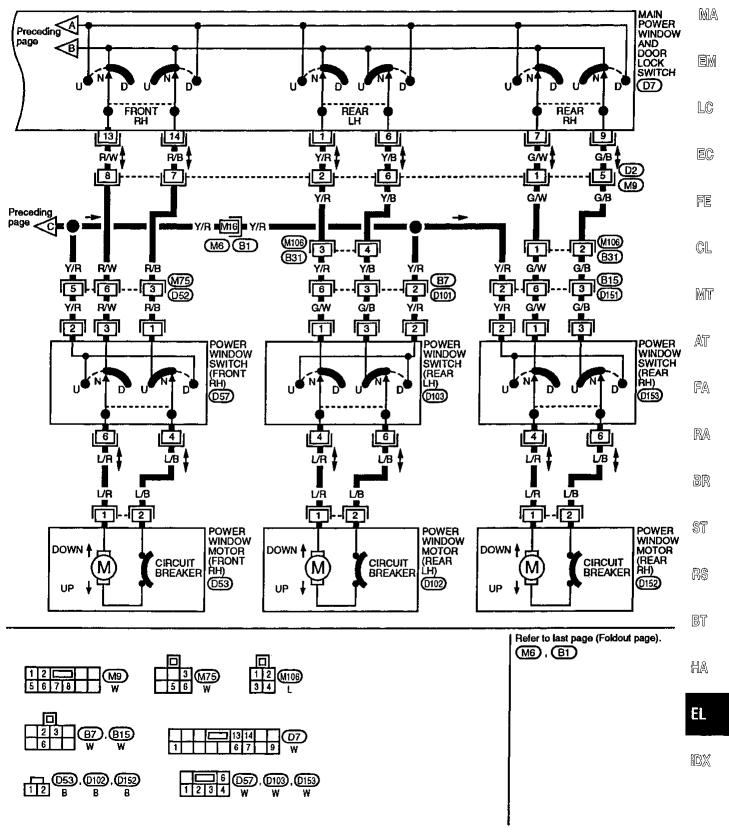
Wiring Diagram -WINDOW-



Wiring Diagram -WINDOW- (Cont'd)

EL-WINDOW-02

GI



Trouble Diagnoses

Symptom	Possible causes	Repair order
None of the power windows can be operated from any switch.	25A and 30A fusible links and M2 circuit breaker.	Check 25A and 30A fusible links (Let.
	2. Grounds (£12), (£37), (M77), (M76), and (M51).	2. Check grounds (£12), (£37), (M77), (M76), and (M51).
	3. Ignition relay-2 (sun roof)	3. Check ignition relay-2 (sun roof)
	Open/short in main power window and door lock switch circuit	Check Y/R wire between ignition relay-2 (sun roof) and main power window and door lock switch for open/short circuit.
Driver side power window cannot be operated but other windows can be operated.	Driver side (front LH) power window motor circuit.	Check driver side (front LH) power window motor circuit.
	Driver side (front LH) power window motor.	2. Check driver side (front LH) power window motor.
One or more passenger power windows cannot be operated.	Power window switches (front RH, rear LH and RH).	Check power window switches (front RH, rear LH and RH).
	Power window motors (front RH, rear LH and RH).	Check power window motors (front RH, rear LH and RH).
	Main power window and door lock switch	3. Check main power window and door lock switch.
	4. Power window circuits.	Check wires between main power windows and door lock switch and power window switches and motors for open/short circuits.
One or more passenger power windows cannot be operated by main switch but can be operated by passenger's switches.	Main power window and door lock switch.	Check main power window and door lock switch.

POWER DOOR LOCK

System Description

POWER DOOR LOCK

The door key will not activate the power door lock system. The main power window and door lock switch or door lock switch RH triggers the power door lock actuators.

Power is supplied at all times to door lock terminal ① through:

- 25A fusible link (letter g , located in the fusible link and fuse box), and
- circuit breaker.

The door lock timer terminal (5) is grounded through body grounds (M51), (M76) and (M77).

UNLOCK

When either the main power window and door lock switch or door lock switch RH is pressed to the unlock position:

- door lock timer terminal ② supplies voltage and
- door lock timer terminal (3) supplies ground

All door lock actuators move to the unlock position.

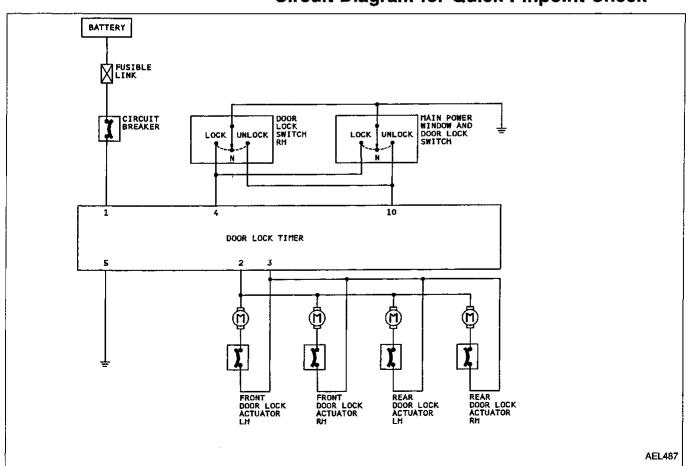
LOCK

When either the main power window and door lock switch or door lock switch RH is pressed to the lock position:

- door lock timer terminal ③ supplies voltage and
- door lock timer terminal ② supplies ground

All door lock actuators move to the lock position.

Circuit Diagram for Quick Pinpoint Check



1157

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MA

LC.

EC

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AT

FA

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BR

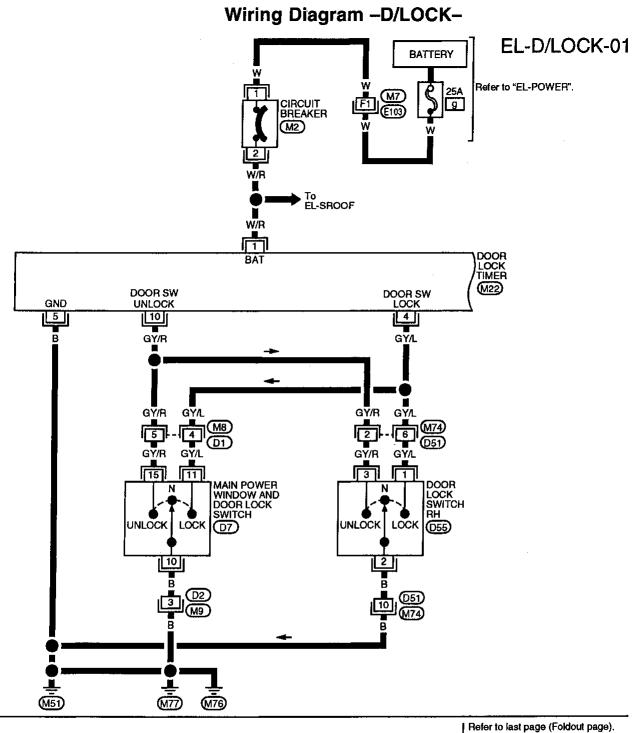
ST

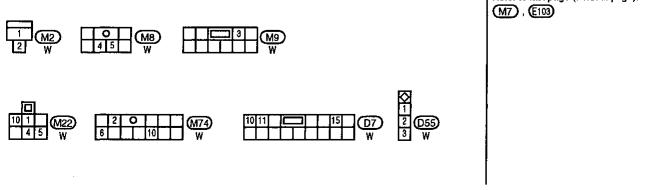
RS

BT

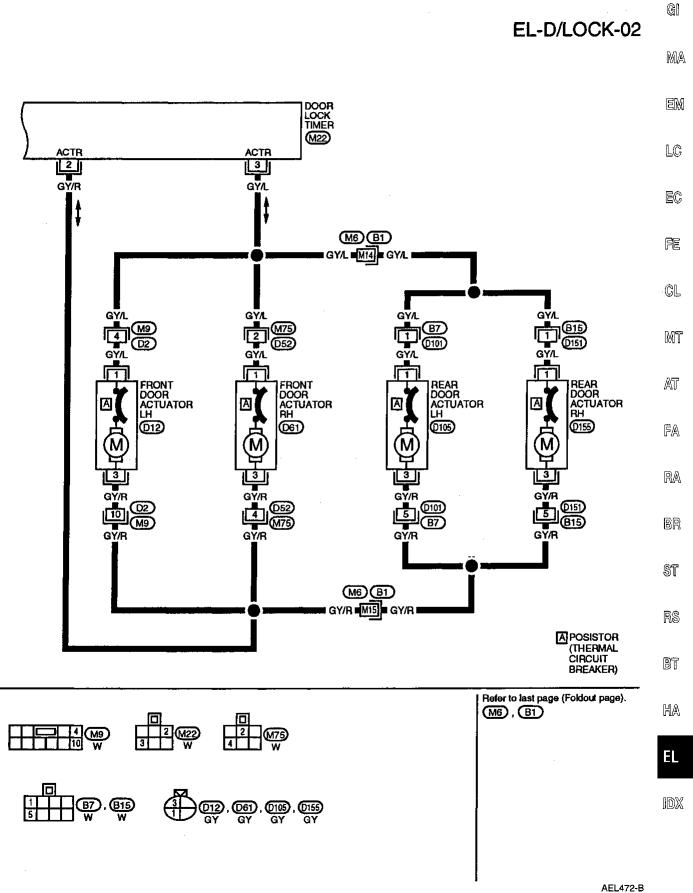
HA

IDX





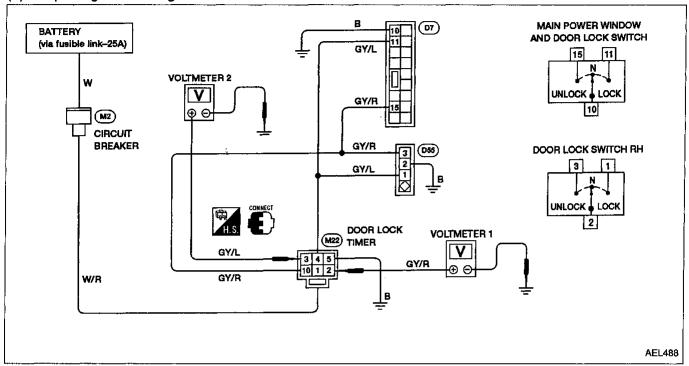
Wiring Diagram -D/LOCK- (Cont'd)



POWER DOOR LOCK

Door Lock Timer

- Carry out the inspections below.
- (1) Power source and ground: Battery voltage should exist between terminals ① and ⑤.
 (2) Input signals: Continuity should exist between terminals ④, ⑩, and ground in "ON" condition, and should not exist in "OFF" condition.
- (3) Output signals: Voltage shown in the chart should exist.

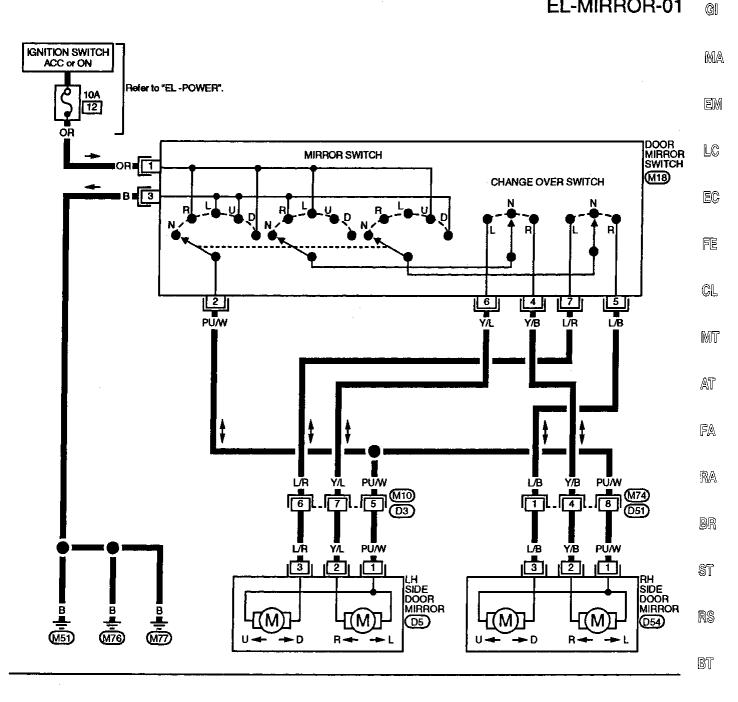


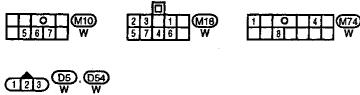
Carry out the complete inspection in the chart from left to right.

Door lock	Connections		Operations		
timer			Main power window and door lock switch/door lock switch RH		
M22 terminal	i		N	Unlock	Lock
1	Power s	ource	12V	12V	12V
5	Ground		Ground	Ground	Ground
4	Input signal	Main power window and door lock switch/door lock switch RH (Input signal for lock)	OFF	OFF	ON
10		Main power window and door lock switch/door lock switch RH (Input signal for unlock)	OFF	ON	OFF
2	Output	Door lock actuator (Lock power source) VOLTMETER 1	ov	ov	12V (Approx. 1.0 sec.) → 0V
3	signal	Door lock actuator (Unlock power source) VOLTMETER 2	ov	12V (Approx. 1.0 sec.) → 0V	oV

Wiring Diagram -MIRROR-

EL-MIRROR-01





HA

IDX

SUNROOF

System Description

POWER

Power is supplied to the sunroof motor assembly by the sunroof relay when the ignition switch is turned ON. The power circuit is protected by the circuit breaker. The sunroof motor assembly has an independent ground circuit.

TILT AND SLIDE OPERATION

A ground signal is sent to the internal control circuitry of the sunroof motor assembly when the sunroof switches are pressed. The motor is activated by the control circuitry. The motor turns off when the switches are released.

The sunroof will slide open when the OPEN side of the sunroof switch is pressed. It will slide closed when the CLOSE side of the switch is pressed.

The sunroof must be in the closed position for the tilt feature to operate. The rear of the sunroof will tilt up when the UP side of the tilt switch is pressed. The sunroof will return from the up position to the closed position when the DOWN side of the tilt switch is pressed.

The sun shade opens automatically when the sunroof is opened. It must be closed manually.

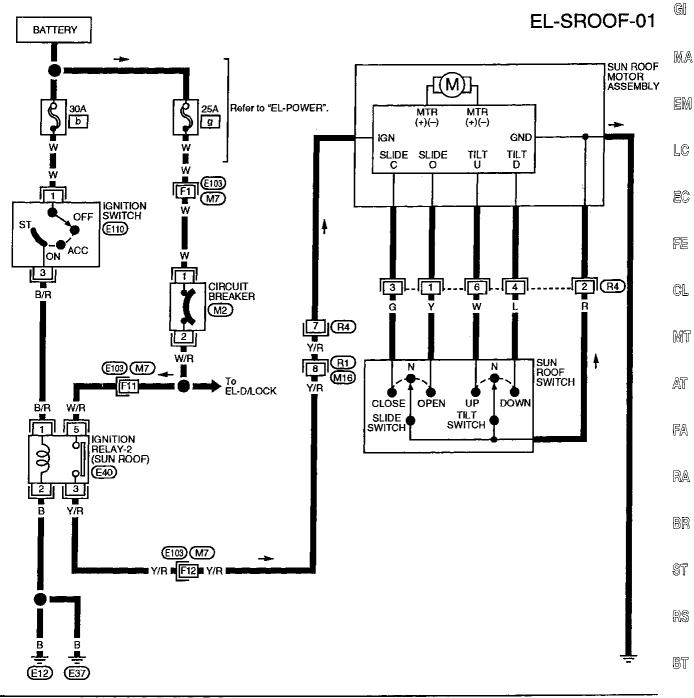
IF THE SUNROOF DOES NOT CLOSE

The sunroof motor may be manually operated using the wrench supplied in the tool bag (located in the trunk next to the spare tire).

- 1. Turn the ignition switch OFF.
- 2. Remove the sunroof switch assembly.
- Insert the wrench into the sunroof motor shaft and rotate the shaft clockwise to close the sunroof.

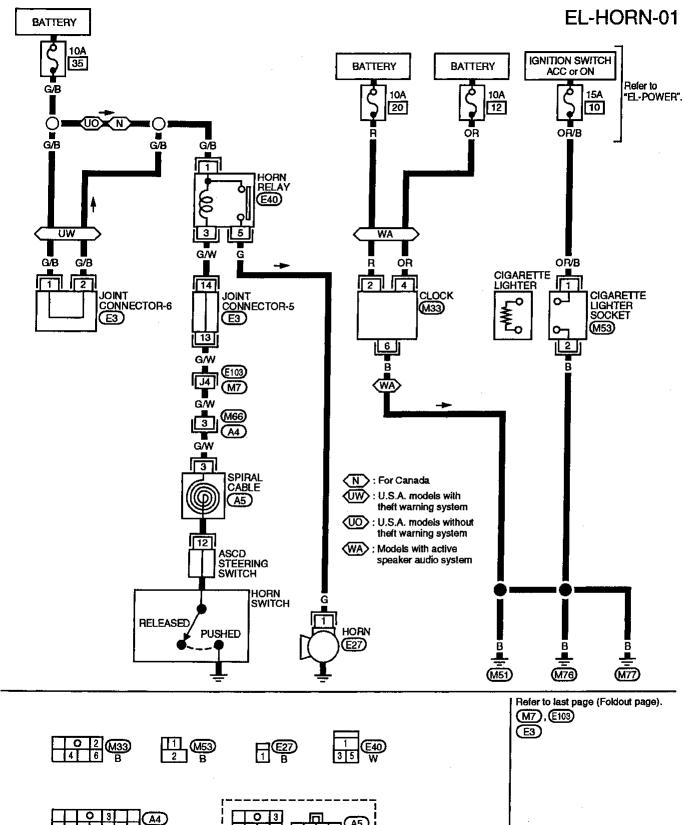
EL-120 1162

Wiring Diagram -SROOF-





Wiring Diagram -HORN-

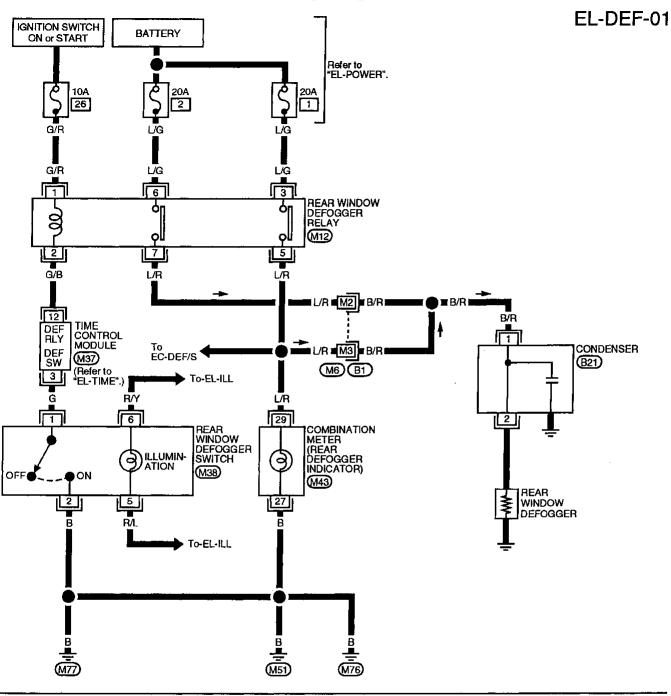


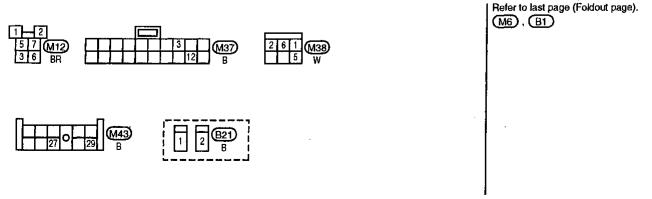
REAR WINDOW DEFOGGER

System Description

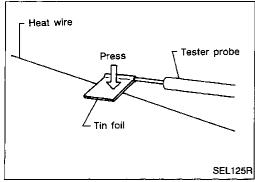
The rear window defogger system is controlled by the time control module. The rear window decoperates only for approximately 15 minutes. Power is supplied at all times to rear window defogger relay terminal ③	fogger ©l
 through 20A fuse (No. 1 , located in the fuse block) and to rear window defogger relay terminal 6 	MA
 through 20A fuse (No. 2 , located in the fuse block). With the ignition switch in the ON or START position, power is supplied to the rear window defogger relay terminal 1. 	EM
Ground is supplied to terminal ② of the rear window defogger switch through body grounds (M5), and (M77).	M76
 When the rear window defogger switch is activated, ground is supplied through terminal ① of the rear window defogger switch to time control module terminal ③. 	EC
Terminal 12 of the time control module then supplies ground to the rear window defogger relay termine With power and ground supplied, the rear window defogger relay is energized. Power is supplied	nal ②. Æ
 through terminals (5) and (7) of the rear window defogger relay to condenser terminal (1) through terminal (2) of the condenser 	CL
 to the rear window defogger. The rear window defogger has an independent ground. With power and ground supplied, the rear window defogger filaments heat and defog the rear window defogger indicator illuminates in the combination rearms. 	
Power is supplied to terminal of the combination meter from terminal of the rear window defogger relay.	AT
Terminal ② of the combination meter is grounded through body grounds (M5), (M76) and (M77). For diagnosis, refer to "TIME CONTROL SYSTEM".	FA
	RA
	BR
	ST
	RS
	87
	HA

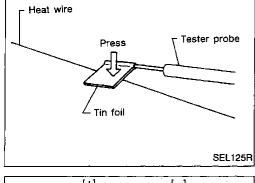
Wiring Diagram -DEF-

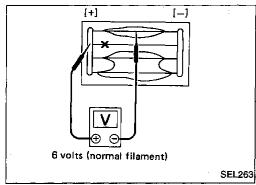


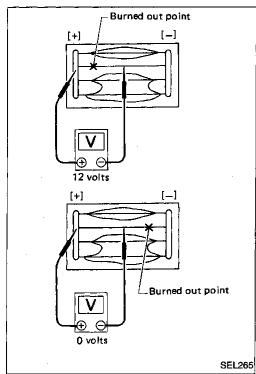


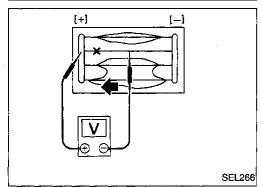
REAR WINDOW DEFOGGER











Filament Check

When measuring voltage, wrap tin foil around the top of the negative probe. Press the foil against the wire with your finger. Otherwise, the element may be damaged.

GI

MA

EM

1. Attach probe circuit tester (in volt range) to middle portion of each filament.

EC

FE

LC

CL.

MT

2. If a filament is burned out, circuit tester registers 0 or 12 volts.

AT

RA

FA

BR

ST

RS

BT

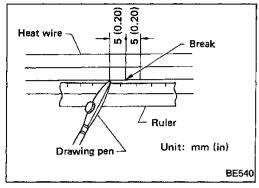
HA

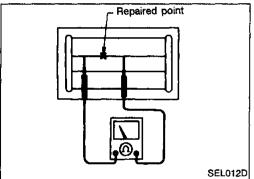
To locate burned out point, move probe along filament. Tester needle swings abruptly at the burned point.

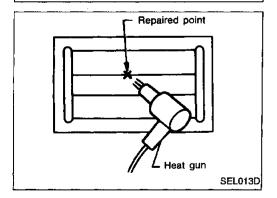
Filament Repair

REPAIR EQUIPMENT

- Conductive silver composition (Dupont No. 4817 or equivalent)
- 2. Ruler 30 cm (11.8 in) long
- Drawing pen
- 4. Heat gun
- 5. Alcohol
- 6. Cloth







REPAIRING PROCEDURE

- Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.

Shake silver composition container before use.

- 3. Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.
- After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.

5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.

Audio/System Description

Refer to Owner's Manual for audio system operating instructions. GI WITH ACTIVE SPEAKER AUDIO SYSTEM Power is supplied at all times through 10A fuse (No. 20, located in the fuse block) MA to radio, cassette and CD player terminal 6. With the ignition switch in the ACC or ON position, power is supplied through 15A fuse (No. 9 , located in the fuse block) EM to radio, cassette and CD player terminal 10 to front speaker amplifier terminal 36, and to rear speaker amplifier terminal (16). LC Ground is supplied through the case of the radio, cassette, CD player and front and rear speaker amplifiers. EC When the system is on, audio signals are supplied • through radio, cassette and CD player terminals (1), (2), (3), (4), (13), (14), (15) and (16) to terminals (7), (8), (9) and (10) of the rear speaker amplifier and terminals (27), (28), (29) and (30) of the FE front speaker amplifier. to tweeters and the front and rear speakers through terminals (1), (2), (3) and (4) of the front speaker amplifier and terminals (1), (2), (3) and (4) of the rear speaker amplifier. CL. WITHOUT ACTIVE SPEAKER AUDIO SYSTEM Power is supplied at all times MT through 10A fuse (No. 20, located in the fuse block) to radio and cassette player terminal 6. With the ignition switch in the ACC or ON position, power is supplied AT through 10A fuse (No. 9, located in the fuse block) to radio and cassette player terminal (10). Ground is supplied through the case of the radio and cassette player. FA When the system is on, audio signals are supplied • through radio and cassette player terminals (1), (2), (3), (4), (13), (4), (15) and (16) to the front and rear speakers. RA BR ST RS BT HA

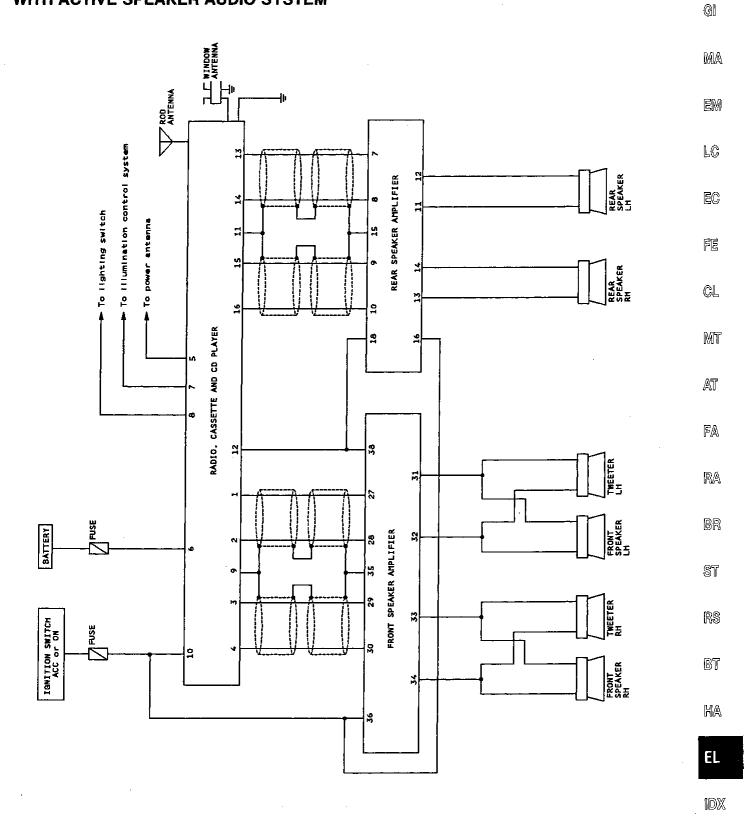
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NOTE

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Audio/Schematic

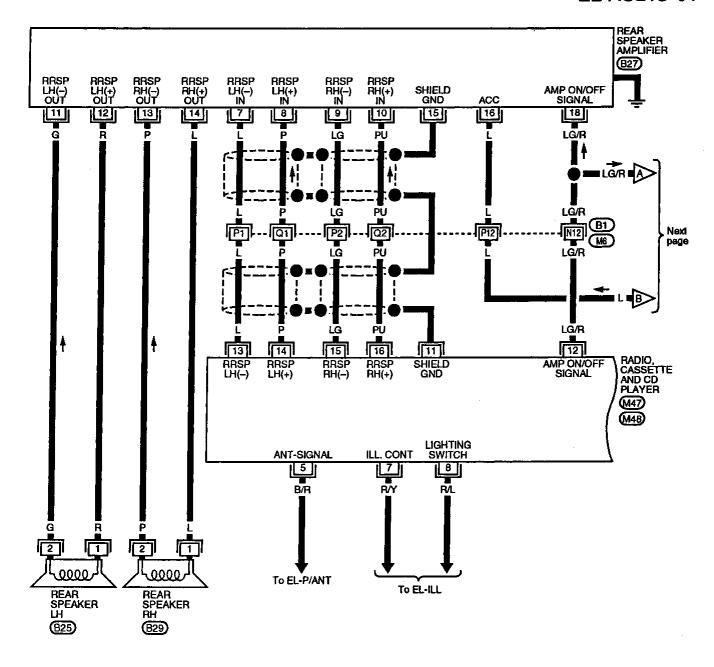
WITH ACTIVE SPEAKER AUDIO SYSTEM



Audio/Wiring Diagram -AUDIO-

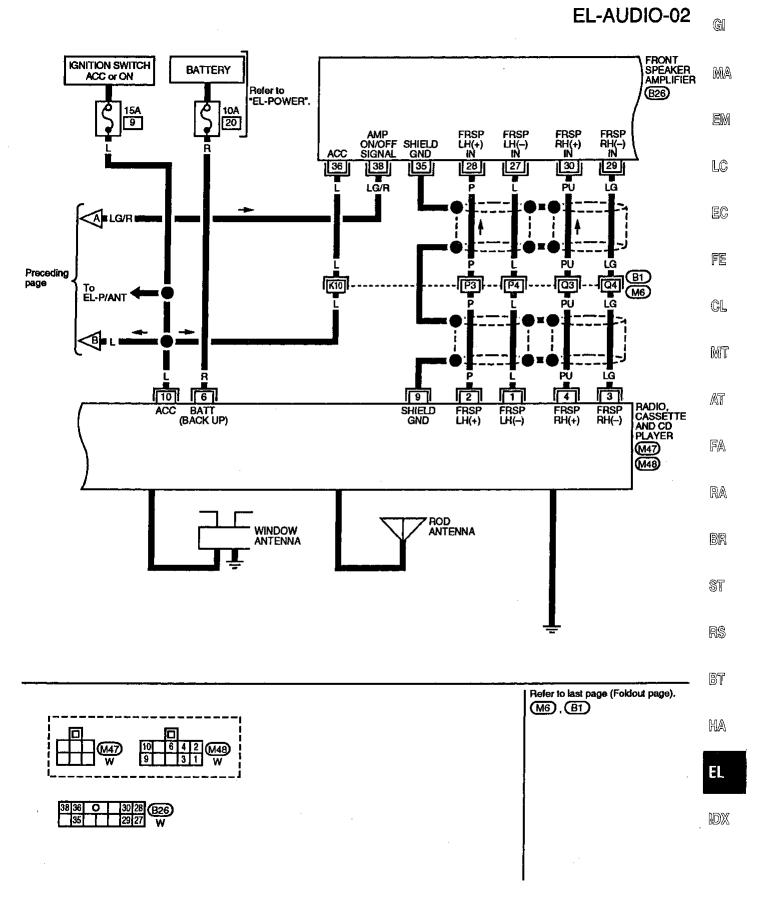
WITH ACTIVE SPEAKER AUDIO SYSTEM

EL-AUDIO-01

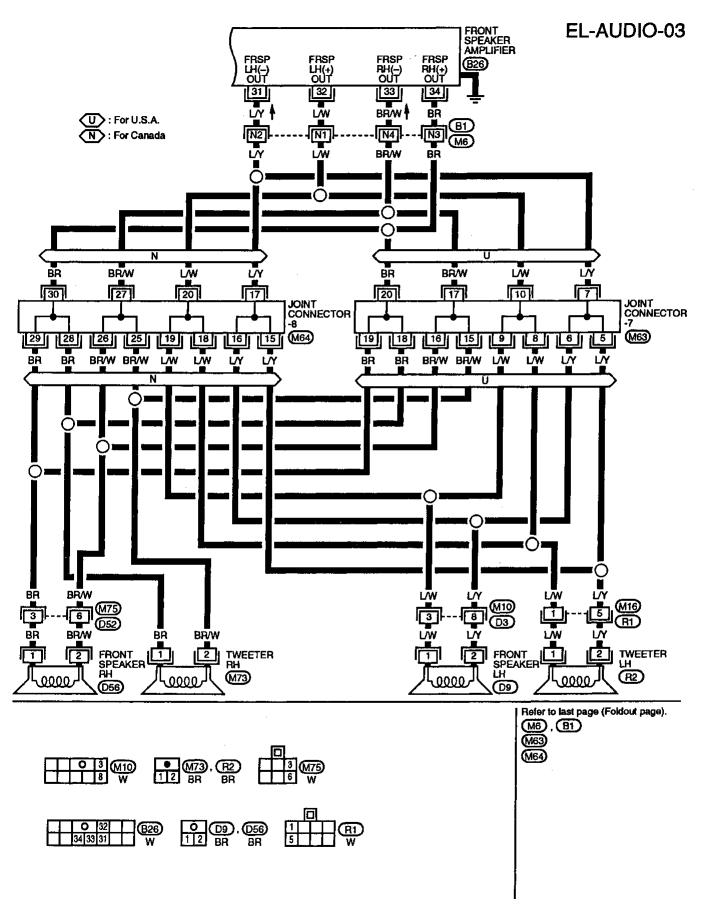




Audio/Wiring Diagram -AUDIO- (Cont'd)

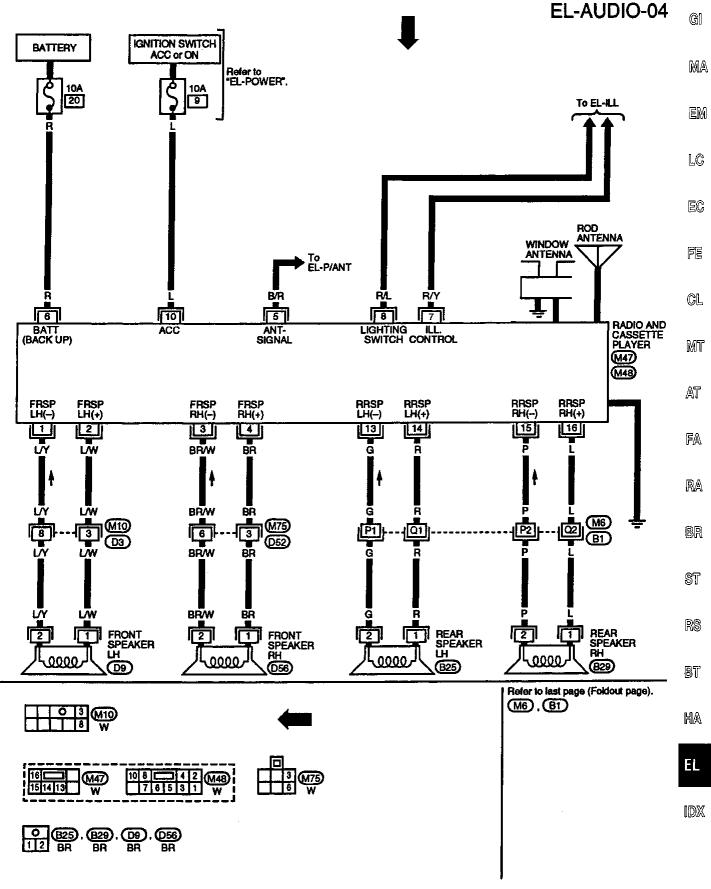


Audio/Wiring Diagram -AUDIO- (Cont'd)



Audio/Wiring Diagram -AUDIO- (Cont'd)

WITHOUT ACTIVE SPEAKER AUDIO SYSTEM



July 1994 (03) SM5E-0U13U0

SMA95-080

'95 ALTIMA

Arrow Indicates Amended Information

Power Antenna/System Description

Power is supplied at all times

• through 10A fuse (No. 20 , located in the fuse block)

• to power antenna terminal 6.

With the ignition switch in the ACC or ON position, power is supplied

- through 10A (without active speaker audio system) or 15A (with active speaker audio system) fuse (No. 9, located in the fuse block)
- to power antenna terminal 1.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse (No. 26, located in the fuse block)
- to power antenna terminal 3.

Ground is supplied to power antenna terminal ② through body ground 17.

When the radio is turned to the ON position, battery positive voltage is supplied

- through radio terminal (5)
- to power antenna terminal 4.

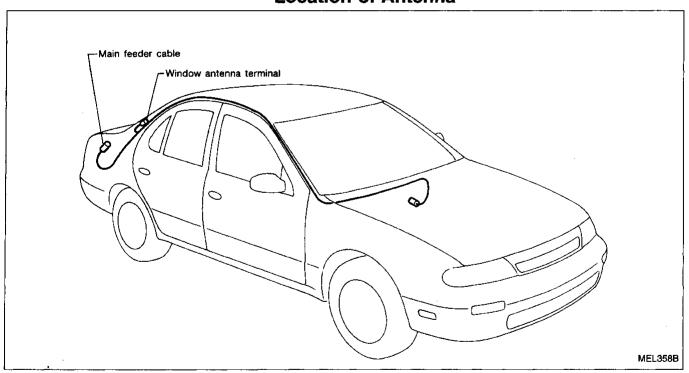
The antenna raises and is held in the extended position.

When the radio is turned to the OFF position, battery positive voltage is interrupted

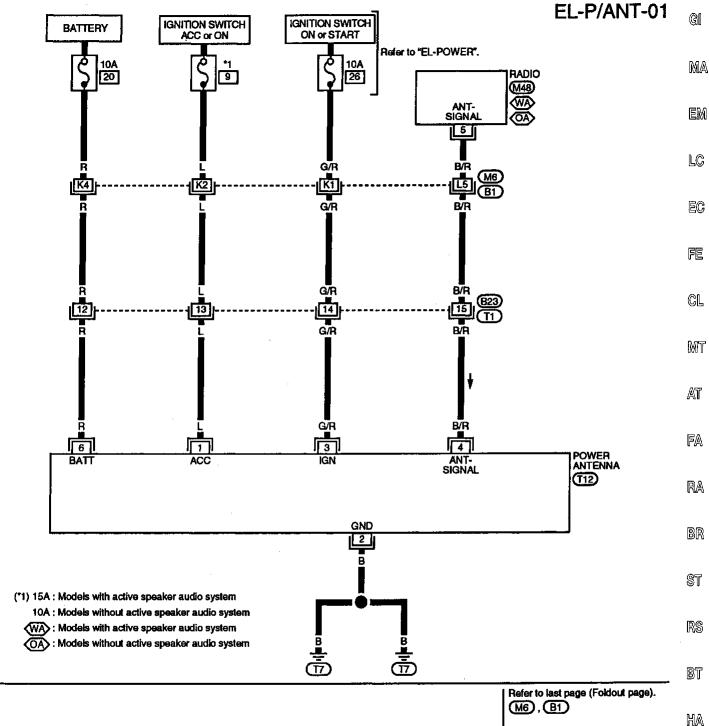
- from radio terminal (5)
- to power antenna terminal 4.

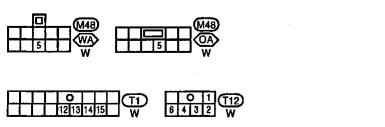
The antenna retracts.

Location of Antenna



Power Antenna/Wiring Diagram -P/ANT-





Refer to last page (Foldout page).

M6 , B1

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AEL477

Trouble Diagnoses

Symptom	Possible causes	Repair order
- ·		·
Radio inoperative (no digital display and no sound from speakers).	1. 10A fuse (without active speaker audio system) 15A fuse (with active speaker audio system)	1. Check 10A (without active speaker audio system) or 15A (with active speaker audio system) fuse (No. 9, located in fuse block). Turn ignition switch ON and verify battery positive voltage is present at terminal of of radio (and terminal of of rear speaker amplifier and terminal of front speaker amplifier with active speakers).
	Poor radio case ground Radio	Check radio case ground. Remove radio for repair.
Radio controls are operational, but no sound is heard from any speaker.	Radio output Radio	Check radio output voltages. Remove radio for repair.
Radio presets are lost when ignition switch is turned OFF.	1. 10A fuse	Check 10A fuse (No. 20), located in fuse block) and verify battery positive voltage is present at terminal 6 of radio.
	2. Radio	2. Remove radio for repair.
Rear speakers are inoperative.	WITH ACTIVE SPEAKER AUDIO SYSTEM 1. Rear speaker amplifier 10A fuse 2. Poor rear amplifier case ground 3. Rear speaker amplifier 4. Rear speaker amplifier circuit 5. Radio WITHOUT ACTIVE SPEAKER AUDIO SYSTEM 1. Radio output 2. Radio	 WITH ACTIVE SPEAKER AUDIO SYSTEM Check 10A fuse on amplifier Check rear amplifier case ground. Check rear speaker amplifier voltages. Check wires for open or short between radio, rear speaker amplifier and rear speakers. Remove radio for repair. WITHOUT ACTIVE SPEAKER AUDIO SYSTEM Check radio output voltages. Remove radio for repair.
Front speakers are inoperative.	WITH ACTIVE SPEAKER AUDIO SYSTEM 1. Front speaker amplifier 10A fuse 2. Poor front amplifier case ground 3. Front speaker amplifier 4. Front speaker amplifier circuit. 5. Radio WITHOUT ACTIVE SPEAKER AUDIO SYSTEM 1. Radio output 2. Radio	 WITH ACTIVE SPEAKER AUDIO SYSTEM Check 10A fuse on amplifier Check front amplifier case ground. Check front speaker amplifier voltages. Check wires for open or short between radio, front speaker amplifier and front speakers. Remove radio for repair. WITHOUT ACTIVE SPEAKER AUDIO SYSTEM Check radio ouput voltages. Remove radio for repair.
Individual speaker is noisy or inoperative.	Speaker Radio/amplifier output Speaker circuit	 Check speaker. Check radio/amplifier output voltages. Check wires for open or short between radio/amplifier and speaker. Remove radio for repair.
AM stations are weak or noisy (FM stations OK).	Antenna Poor radio ground Radio	Check antenna. Check radio ground. Remove radio for repair.
FM stations are weak or noisy (AM stations OK).	Window antenna Radio	Check window antenna. Remove radio for repair.
Radio generates noise in AM and FM modes with engine running.	Poor radio ground Loose or missing ground bonding straps. Ignition condenser or rear window defogger noise suppressor condenser Generator Ignition coll or secondary wiring Radio	1. Check radio ground. 2. Check ground bonding straps. 3. Replace ignition condenser or rear window defogger noise suppressor condenser. 4. Check generator. 5. Check ignition coil and secondary wiring. 6. Remove radio for repair.
Radio generates noise in AM and FM modes with accessories on (switch pops and motor noise).	Poor radio ground Antenna Accessory ground Faulty accessory	Check radio ground. Check antenna. Check accessory ground. Replace accessory.

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Trouble Diagnoses (Cont'd)

Symptom	Possible causes	Repair order
Power antenna does not operate.	1. 10A fuse	Check 10A fuse (No. 20 , located in fuse block). Verify battery positive voltage is present at terminal 6 of power antenna.
	2. 10A fuse	2. Check 10A fuse (No. 25 , located in fuse block). Turn ignition switch ON and verify battery positive voltage is present at terminal 3 of power antenna.
	10A fuse (without active speaker audio system) 15A fuse (with active speaker audio system)	3. Check 10A (without active speaker audio system) or 15A (with active speaker audio system) fuse (No. 9, located in fuse block). Turn ignition switch ON and verify battery positive voltage is present at terminal 1 of power antenna.
	4. Radio signal	4. Turn radio ON and verify battery positive voltage is present at terminal 4 of power antenna.
	5. Poor power antenna ground	5. Check power antenna ground.

SPEAKER INSPECTION

- 1. Disconnect speaker harness connector.
- 2. Measure the resistance between speaker terminals 1 and 2.
- The resistance should be 2-4 Ω
- 3. Using jumper wires, momentarily connect a 9V battery between speaker terminals 1) and 2).
- A momentary hum or pop should be heard

ANTENNA INSPECTION

- 1. Using a jumper wire, clip an auxiliary ground between antenna and body.
- If reception improves, check antenna ground (at body surface)
- If reception does not improve, check main feeder cable for short circuit or open circuit.

RADIO AND AMPLIFIER INSPECTION

All voltage inspections are made with:

- Ignition switch ON or ACC
- Radio ON
- Radio and amplifiers connected (If either is removed for inspection, supply a ground to the case using a jumper wire.)

RADIO VOLTAGES

		- -	
	Voltage (V)		
Terminal	Without Active Speaker Audio System	With Active Speaker Audio System	
1	5 - 7.5	2.5 - 6.5	
2	5 - 7.5	2.5 - 6.5	
3	5 - 7.5	2.5 - 6.5	
4	5 - 7.5	2.5 - 6.5	
5	10 - 15 (0 when tape is playing)	9 - 15 (0 when tape is playing)	
6	10.8 - 15.6	10.8 - 15.6	
7	-		
8			
9	0	0	
10	10.8 - 15.6	10.8 - 15.6	
11	_	0	
12	_	19 - 15	
13	5 - 7.5	2.5 - 6.5	
14	5 - 7.5	2.5 - 6.5	
15	5 - 7.5	2.5 - 6.5	
16	5 - 7.5	2.5 - 6.5	

AMPLIFIER VOLTAGES

Terminal		
Front Amplifier	Rear Amplifier	Voltages (V)
27	7	2.5 - 6.5
28	8	2.5 - 6.5
29	9	2.5 - 6.5
30	10	2.5 - 6.5
31	11	4.5 - 8.5
32	12	4.5 - 8.5
33	13	4.5 - 8.5
34	14	4.5 - 8.5
35	15	0
36	16	10.8 - 15.6
37	17	_
38	18	9 -15

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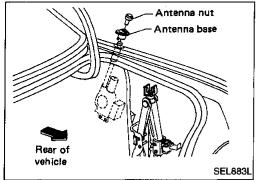
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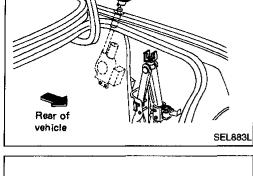
RS

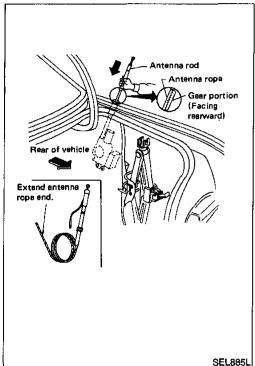
BŢ

HA

EL







Antenna Rod Replacement

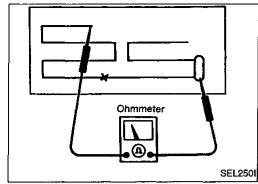
REMOVAL

- Remove antenna nut and antenna base.
- 2. Withdraw antenna rod while raising it by operating antenna motor.

INSTALLATION

- 1. Lower antenna rod by operating antenna motor.
- 2. Insert gear section of antenna rope into place with it facing toward antenna motor.
- 3. As soon as antenna rope is wound on antenna motor, stop antenna motor. Insert antenna rod lower end into antenna motor pipe.
- 4. Retract antenna rod completely by operating antenna motor.
- 5. Install antenna nut and base.

1180 **EL-138**



Window Antenna Repair ELEMENT CHECK

 Attach probe circuit tester (in ohm range) to antenna terminal on each side.

GI

MA

If an alament is broken, no continuity will exist

EM

LC

2. If an element is broken, no continuity will exist.

EC

FE

CL

MT

AT

FA

RA

BR

30 0

ST

RS

BT ·

HA

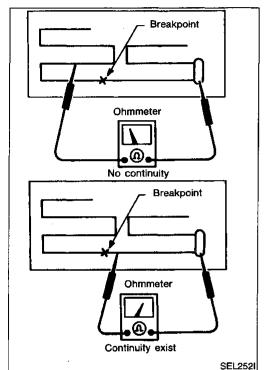


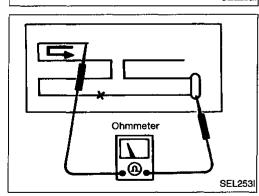
Refer to "Filament Repair", "REAR WINDOW DEFOGGER", (EL-126).

To locate a burned out point, move probe along filament.

Tester needle swings abruptly at the burned point.

EL





AUTOMATIC SPEED CONTROL DEVICE (ASCD)

System Description

Refer to Owner's Manual for ASCD operating instructions.

When the ignition switch is in the ON or START position, power is supplied

- through 10A fuse (No. 26), located in the fuse block)
- to ASCD main switch terminal ① and
- to ASCD hold relay terminal (5)

When ASCD main switch is in the ON position, power is supplied

- from terminal (2) of the ASCD main switch
- to ASCD control module terminal (4) and
- from terminal ③ of the ASCD main switch
- to ASCD hold relay terminal ①.

Ground is supplied

- to ASCD hold relay terminal ②
- through body grounds (£12) and (£37).

With power and ground supplied, the ASCD hold relay is activated, and power is supplied

- from terminal 3 of the ASCD hold relay
- to ASCD control module terminal (4) and
- to ASCD clutch pedal position switch terminal ① (M/T models) or
- to inhibitor relay terminal ③ (A/T models).

Power remains supplied to ASCD control module terminal (4) when the ASCD main switch is released to the N (neutral) position.

Ground is supplied

- to ASCD control module terminal (3)
- through body grounds (M51), (M76) and (M77).

Inputs

At this point, the system is ready to activate or deactivate, based on inputs from the following:

- speedometer in the combination meter
- stop lamp switch
- ASCD steering switch
- inhibitor relay (A/T models)
- ASCD clutch pedal position switch (M/T models)
- ASCD cancel switch.

A vehicle speed input is supplied

- to ASCD control module terminal (7)
- from terminal (5) of the combination meter.

Power is supplied at all times

- to stop lamp switch terminal (1)
- through 15A fuse (No. 18), located in the fuse block).

When the brake pedal is depressed, power is supplied

- from terminal 2 of the stop lamp switch
- to ASCD control module terminal ①.

Power is supplied at all times

- through 10A fuse (No. 35), located in the fusible link and fuse box)
- to horn relay terminal (1)
- through terminal ③ of the horn relay
- to ASCD steering switch terminal ②.

When the SET/COAST button is depressed, power is supplied

- from terminal (4) of the ASCD steering switch
- to ASCD control module terminal (2).

When the RESUME/ACCEL button is depressed, power is supplied

- to ASCD control module terminal (1).

When the CANCEL button is depressed, power is supplied

to ASCD control module terminals (1) and (2).

When the system is activated, power is supplied

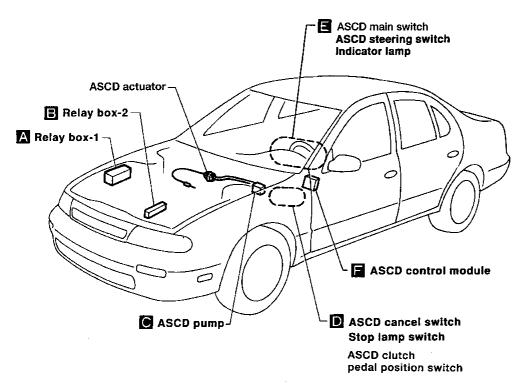
to ASCD control module terminal ⑤.

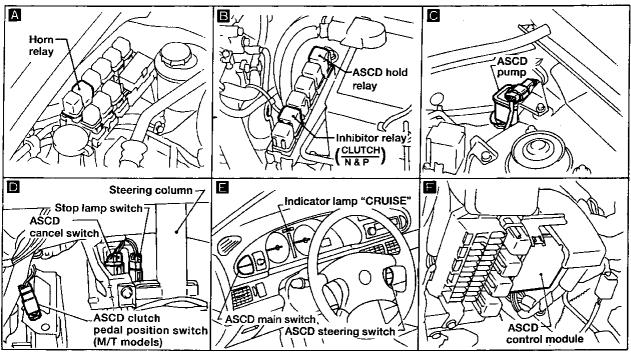
AUTOMATIC SPEED CONTROL DEVICE (ASCD)

System Description (Cont'd)

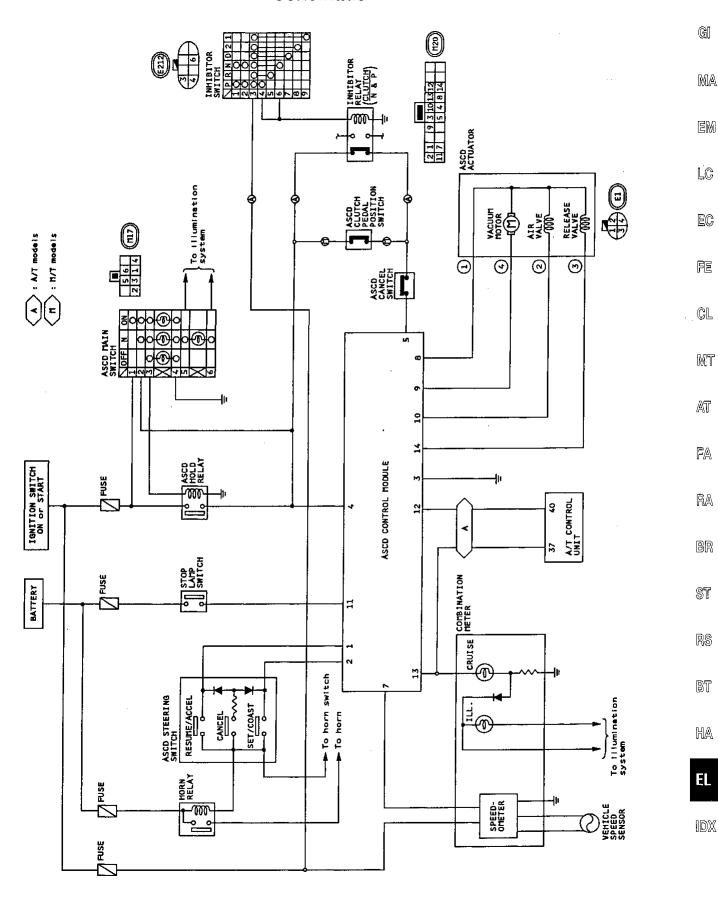
System Description (Cont'd)	
• the brake pedal is depressed.	(G)
trol module. The ASCD actuator consists of a vacuum motor, an air valve, and a release valve.	MA
• to ASCD actuator terminal ①.	EM
• to ASCD actuator terminal 4.	LC
• to ASCD actuator terminal ②.	EC
 Ground is supplied to the release valve from terminal (4) of the ASCD control module to ASCD actuator terminal (3). 	FE
 When the system is activated, power is supplied from terminal (3) of the ASCD control module to combination meter terminal (25) and 	CL
• to A/T control unit terminal ③ (A/T models)	MT
• through body grounds (MST) (MZR) and (MZZ)	AT
• from terminal (3) of the ASCD control module	FA
	RA
	BR
	ST
	RS
	BT
	HA
	EL

Component Parts and Harness Connector Location



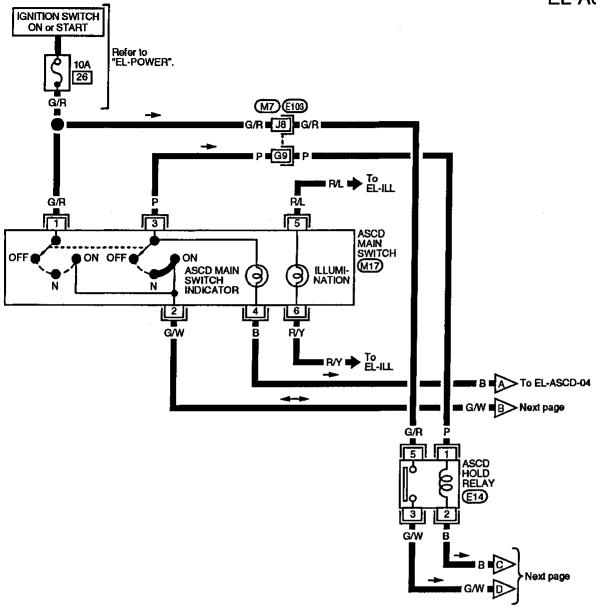


Schematic



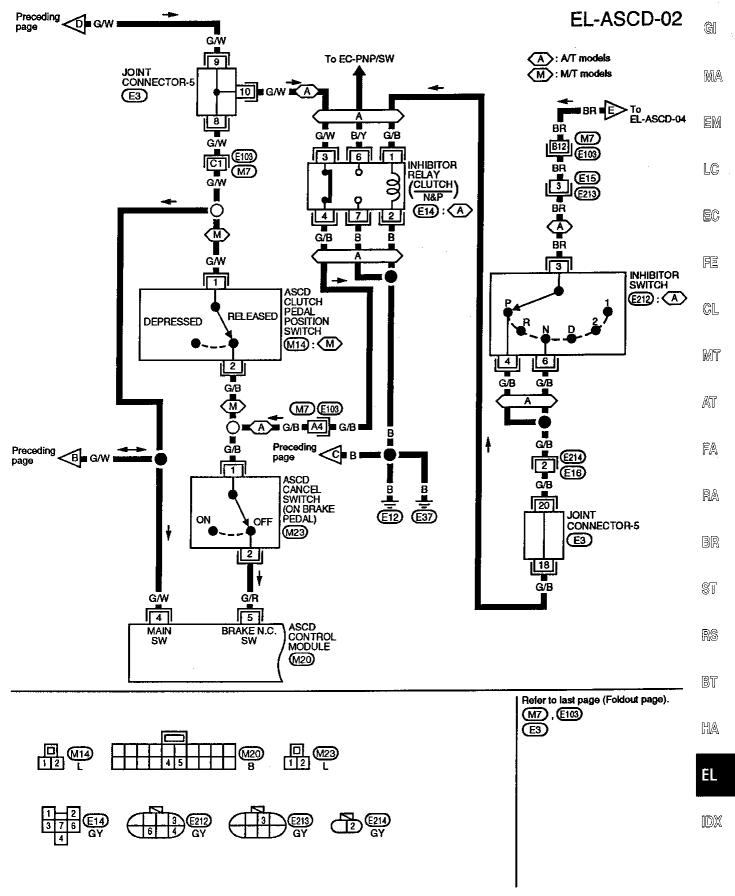
Wiring Diagram -ASCD-

EL-ASCD-01



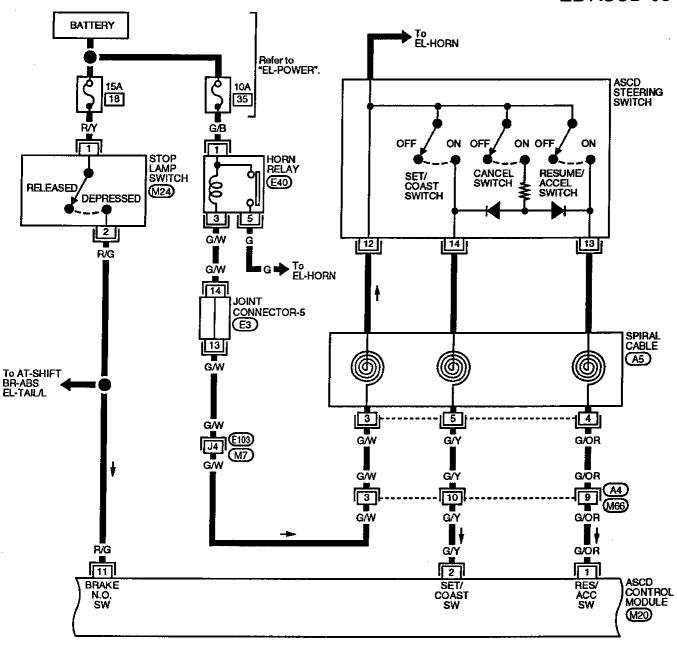


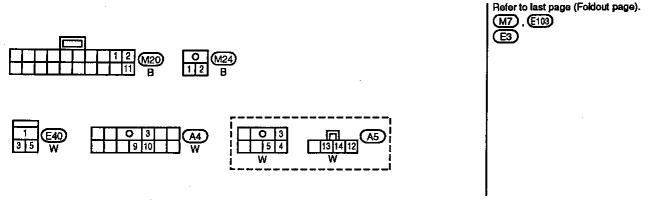
Wiring Diagram -ASCD- (Cont'd)



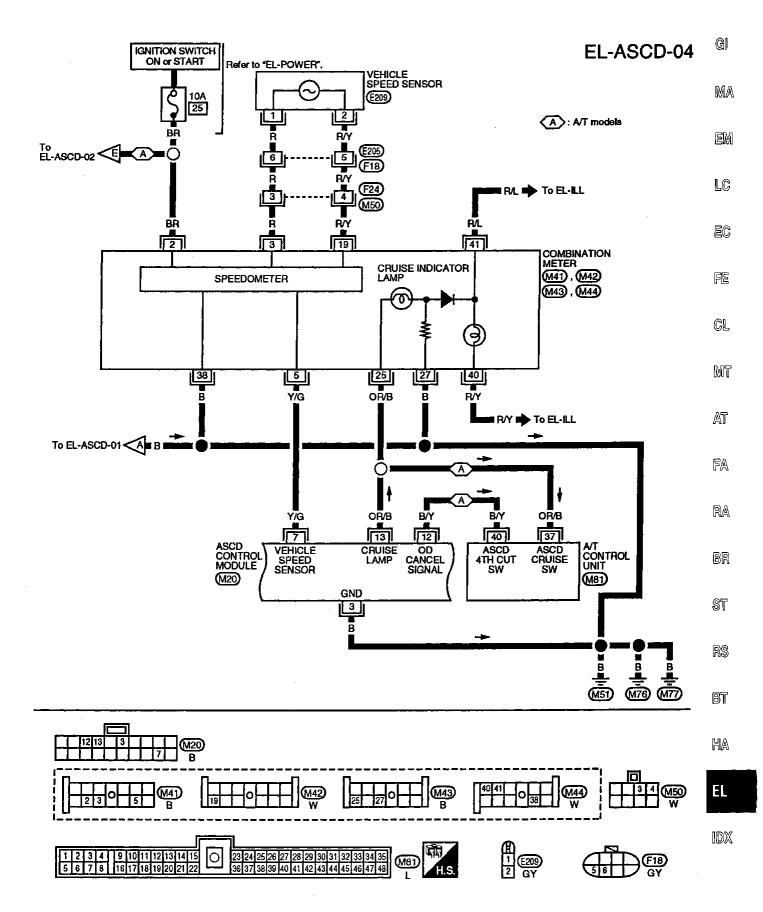
Wiring Diagram -ASCD- (Cont'd)





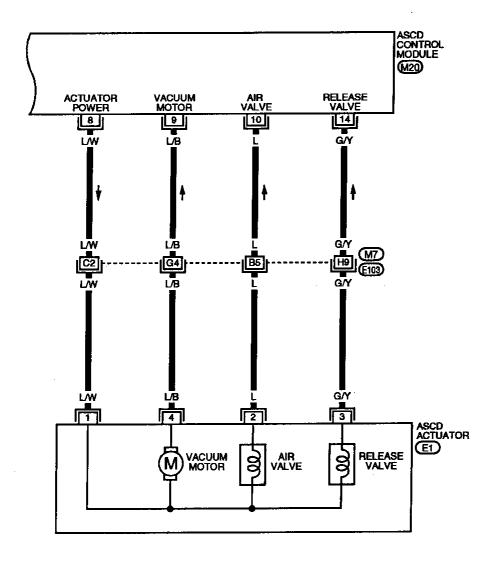


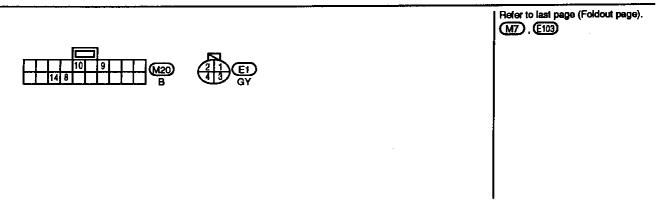
Wiring Diagram -ASCD- (Cont'd)



Wiring Diagram -ASCD- (Cont'd)

EL-ASCD-05





Trouble Diagnoses

SYMPTOM CHART

PROCEDURE			Diag	nostic	Proc	edure				L E	ectrica	al Cor	npone	ents Ir	spect	ion	• G[
REFERENCE PAGE	EL-150	EL-152	EL-152	EL-152	EL-153	EL-154	EL-155	EL-156	EL-157	EL-158	EL-159	EL-159	EL-159	EL-159	EL-159	EL-160	M
													witch	dels)			L(
													lamp s	M/T mod			E(
	-	3.2	8	4 6	5	9 6	2 6	8 6	ant .	dwnd C		ے	and stop	switch (models)		F
	rocedure	rocedure	rocedure	rocedure	rocedure	rocedure	rocedure	rocedure	Adjustme	tor/ASCI	switch	ng switc	switch	position	ich (A/T	osuas pe	©[
	Diagnostic Procedure 6	Diagnostic Procedure 7	Diagnostic Procedure 8	ASCD Wire Adjustment	ASCD actuator/ASCD pump	ASCD main switch	ASCD steering switch	ASCD cancel switch and stop lamp switch	Clutch pedal position switch (M/T models)	nhibitor switch (A/T models)	Vehicle speed sensor	[M]					
SYMPTOM	ä	ä	ä	ä	ä	ä	Ö	Ö	AS	AS	AS	AS	AS	ਹ	흐	Ve	
ASCD control module cannot be set properly.	0									0	0	0	0	0	0	0	· Aī
Engine hunts.		0							0	0							F/
Large difference between set speed and actual vehicle speed.			0						0	0							
Deceleration is greatest immediately after ASCD has been set.				0					0	0							R/
ACCEL switch will not operate.	0				0							0					BF
]				0						0	0	0			
RESUME switch will not operate.	0																
RESUME switch will not operate. Set speed cannot be cancelled.	0						0		0	0			0	0			Sī

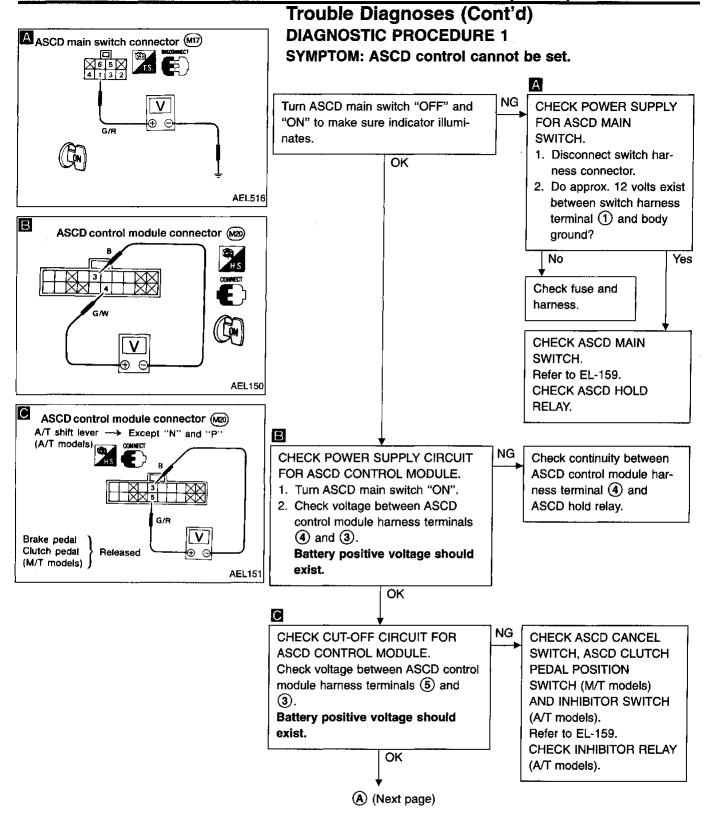
RS

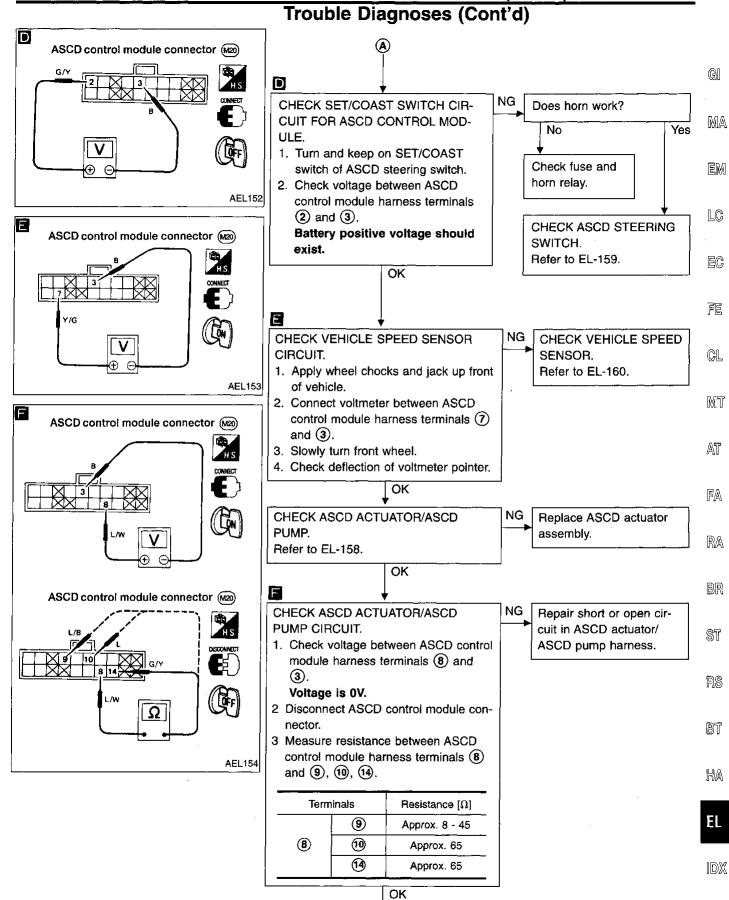
BT

HA

ΕL

IDX

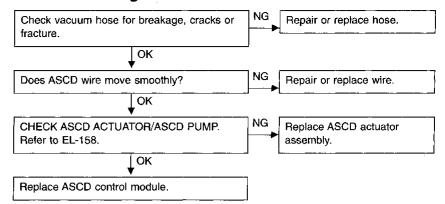




Replace ASCD control module.

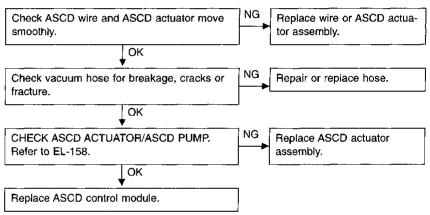
Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 2

SYMPTOM: Engine hunts.



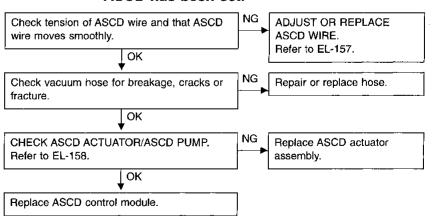
DIAGNOSTIC PROCEDURE 3

SYMPTOM: Large difference between set vehicle speed and actual speed.

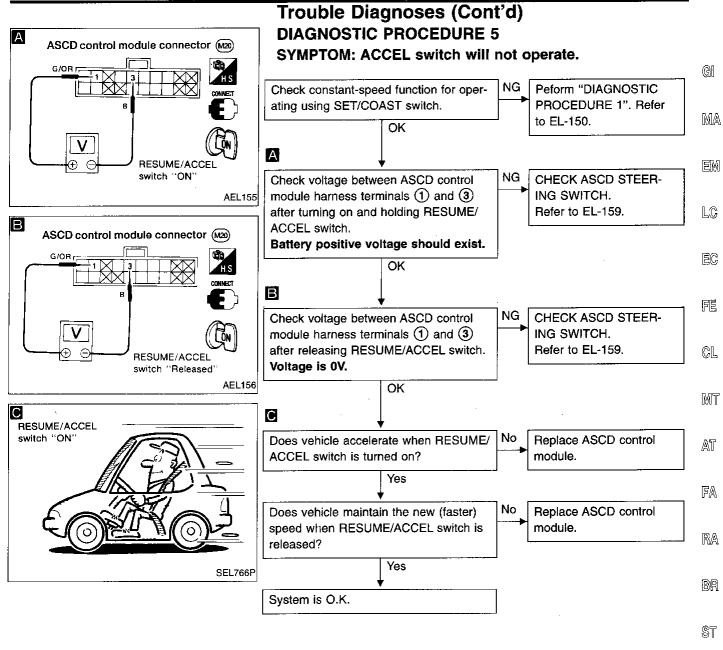


DIAGNOSTIC PROCEDURE 4

SYMPTOM: Deceleration is greatest immediately after ASCD has been set.



EL-152 1194

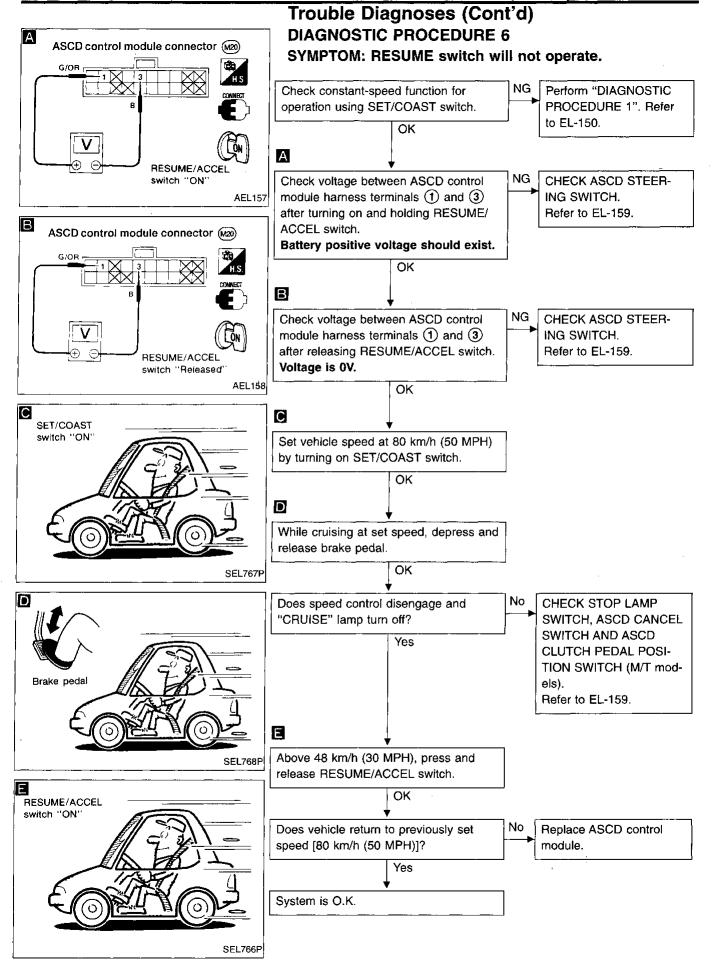


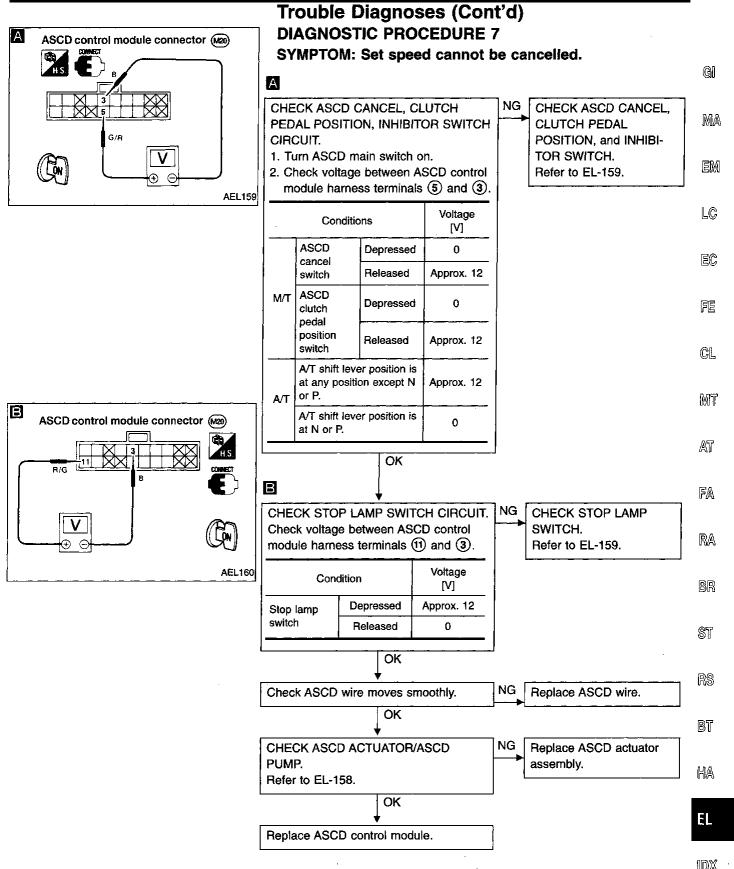
1195

RS

BT

MA

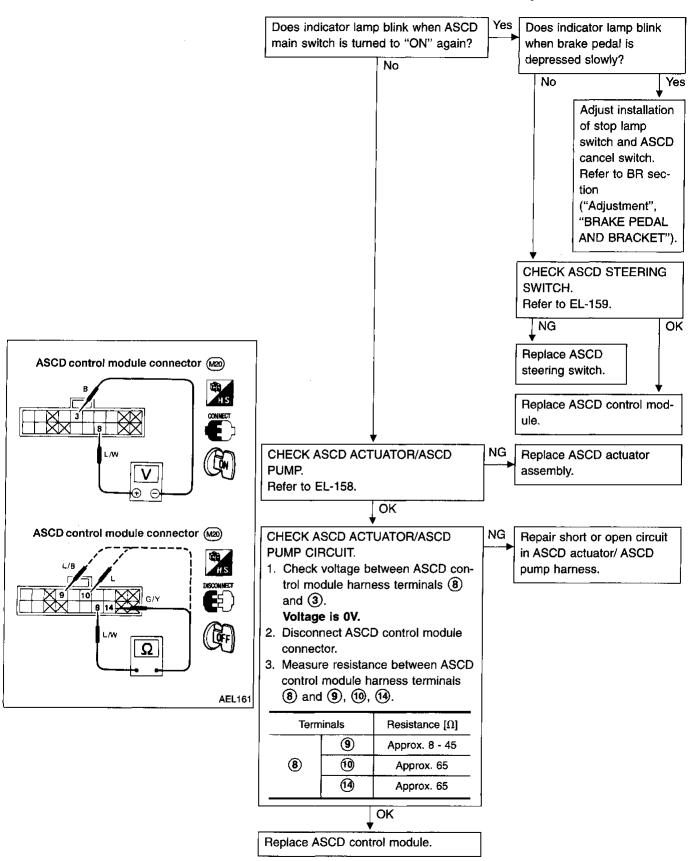




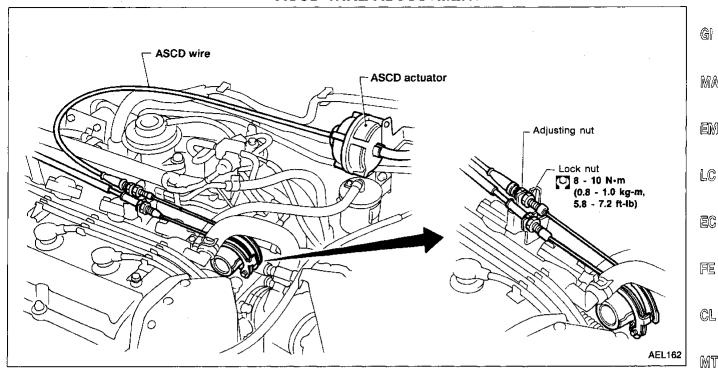
1197

Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 8

SYMPTOM: "CRUISE" indicator lamp blinks.



Trouble Diagnoses (Cont'd) ASCD WIRE ADJUSTMENT



CAUTION:

- Be careful not to twist ASCD wire when removing it.
- Do not overly tighten ASCD wire during adjustment.

Confirm that accelerator wire is properly adjusted.

For accelerator cable adjustment, refer to FE section ("Adjusting Accelerator Cable", "ACCELERATOR CON-TROL SYSTEM").

Adjust the ASCD wire as follows.

- 1. Loosen lock nut and tighten adjusting nut until throttle drum starts to move.
- 2. From that position turn back adjusting nut 0.5 to 1 turn, and secure lock nut.

(This prevents a delay in the operation of the ASCD.)

For ASCD cancel switch adjustment, refer to BR and CL sections ("Adjustment", "BRAKE PEDAL AND BRACKET" and "Adjusting Clutch Pedal", "INSPECTION AND ADJUSTMENT", respectively).

MA

FE

AΤ

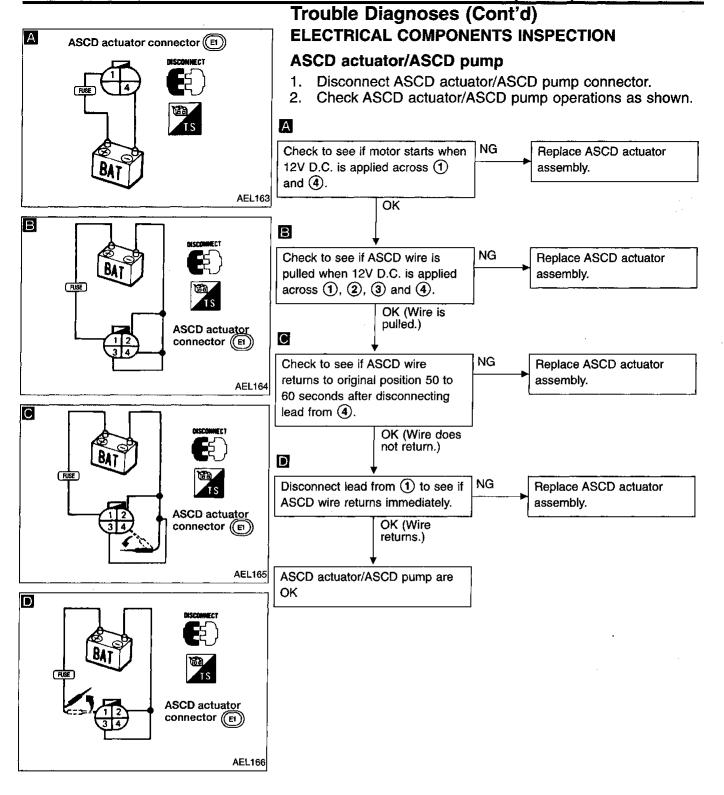
RA

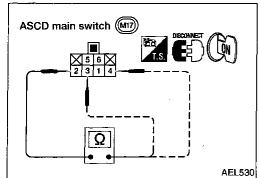
RS

BT

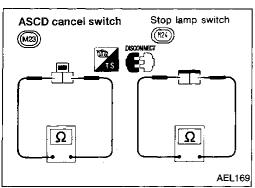
HA

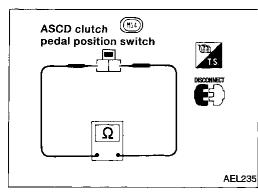
IDX

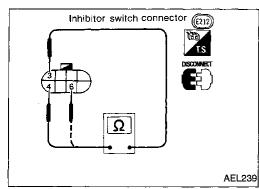




ASCD steering switch (A5) T.S. DISCONNECT (Ω AEL531







Trouble Diagnoses (Cont'd)

ASCD main switch

Check continuity between terminals by pushing switch to each position.

Outside a catility	:	Terminal						
Switch position	1	2	3	4	5	6		
ON	0-	-0-	-0(•) ○				
N		0-	00)	IL O-(.L. 		
OFF								

ASCD steering switch

Check continuity between terminals by pushing each button.

Button	Terminal				
Button	3	5	4		
SET/COAST	0	0			
RESUME/ACCEL	0				
CANCEL	0	→ ○			
CANCEL	0	—	0		

ASCD cancel switch and stop lamp switch

· 	Continuity			
Condition	ASCD cancel switch	Stop lamp switch		
When brake pedal is depressed	No	Yes		
When brake pedal is released	Yes	No		

Check each switch after adjusting brake pedal — refer to BR section ("Adjustment", "BRAKE PEDAL AND BRACKET").

ASCD clutch pedal position switch (For M/T models)

Condition	Continuity
When clutch pedal is depressed	No
When clutch pedal is released	Yes

Check switch after adjusting clutch pedal — refer to CL section ("Adjusting Clutch Pedal", "INSPECTION AND ADJUSTMENT").

Inhibitor switch (For A/T models)

Shift lever position		Terminal			
Still level position	3	4	6		
"P"	0-	0			
"N"	<u> </u>		-0		
Except "N" or "P"					

G

MA

LC

EC

FE

CL.

MT

AT

FA

BR

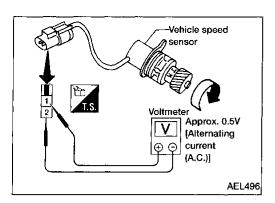
ST

RS

BT

HA

IDX



Trouble Diagnoses (Cont'd)

Vehicle speed sensor

- Remove vehicle speed sensor from transaxle. Turn vehicle speed sensor pinion quickly and measure voltage across ② and ①.

1202 **EL-160**

System Description

Refer to Owner's Manual for theft warning system operating instructions. Power is supplied at all times	GI
 through 30A fusible link (letter b), located in the fusible link and fuse box) 	(SIII
• to ignition switch terminal ①. With the ignition switch in the START position, power is supplied.	MA
 With the ignition switch in the START position, power is supplied ● from terminal ⑤ of the ignition switch 	LVALCAS
• to clutch interlock relay terminal ③ (M/T models) or	
to more warming rotal in territoria.	EM
 With the ignition switch in the START position, power is supplied ◆ from terminal ⑥ of the ignition switch (M/T models) 	
through 10A fuse (No. 16), located in the fuse block)	LĈ
• to theft warning relay-1 terminal ③.	
With the ignition switch in the ON or START position, power is supplied	EC
through 10A fuse (No. 26), located in the fuse block)	⊑ ⊍
 to theft warning relay-1 terminal ①. Power is supplied at all times 	
• through 10A fuse (No. 20), located in the fuse block)	FE
to theft warning control module terminal ① and	
• to combination meter terminal 32.	GL
Power is supplied at all times ◆ through 10A fuse (No. 17 , located in the fuse block)	_
• to trunk room lamp switch terminal ①.	N 852
With the ignition switch in the ACC or ON position, power is supplied	MT
• through 10A fuse (No. 12 , located in the fuse block)	
• to theft warning control module terminal ③.	AT
Ground is supplied ◆ to theft warning control module terminal ⑤	
• through body grounds (M51), (M75) and (M77).	FA
	IT/A)
THEFT WARNING SYSTEM ACTIVATION (Without key used to lock front doors)	
The operation of the theft warning system is controlled by the doors, hood and trunk lid.	RA
To activate the theft warning system, the key must be removed from the ignition switch and the theft warning control module must receive signals indicating the doors, hood and trunk are closed and the	
doors are locked.	BR
When a door is open, theft warning control module terminal (5) receives a ground signal from each door	
switch.	ST
When a door is unlocked, theft warning control module terminal (9) receives a ground signal	⊚ ∥
 from terminal ② of the door unlock sensor through body grounds (M5), (M76) and (M77) for the front doors and 	
• through body grounds (B6) and (B14) for the rear doors.	RS
When the hood is open, theft warning control module terminal (s) receives a ground signal	
• from terminal ① of the hood switch	BT
• through body grounds (£12) and (£37).	ارق
 When the trunk lid is open, theft warning control module terminal (1) receives a ground signal from terminal (1) of the trunk room lamp switch 	
• through body ground (17).	HA
If none of the described conditions exist, the theft warning system will activate automatically.	
THEFT WARDING OVOTEN ACTIVITION (With Iron wood to look doors)	EL
THEFT WARNING SYSTEM ACTIVATION (With key used to lock doors)	
If the rear doors are locked and the key is used to lock either front door, theft warning control module terminal 7 receives a ground signal	
from terminal ① of the front LH or RH key cylinder switch	ULLY/Z/\
• through body grounds (M5), (M76) and (M77).	
If this signal is received by the theft warning control module, the theft warning system will activate auto-	

1203

matically.

System Description (Cont'd)

Once the theft warning system has been activated, theft warning control module terminal ② supplies ground to combination meter terminal ③ for the security lamp.

The security lamp will illuminate for approximately 30 seconds and then go out.

THEFT WARNING SYSTEM OPERATION

The theft warning system is triggered by

- opening a door or the trunk lid without using the key
- opening the hood

tampering with the key cylinder in the door or trunk lid.

Once the theft warning system has been activated, if the theft warning control module receives a ground signal at terminal ⑤, terminal ⑥ or terminal ⑥ (as described under THEFT WARNING SYSTEM ACTIVATION), the theft warning system will be triggered. Also, when one of the following signals is received at the theft warning control module, the system will be triggered. The headlamps flash and the horn sounds intermittently, and the starting system is interrupted.

When a door key cylinder switch has been tampered with, theft warning control module terminal 6 receives a ground signal

- from terminal ③ of the front LH or RH key cylinder switch
- through body grounds (M51), (M76) and (M77).

When the trunk key cylinder switch has been tampered with, theft warning control module terminal 6 receives a ground signal

- from terminal ② of the trunk key cylinder switch
- through body ground (T7).

If the theft warning system is triggered, ground is supplied

- from terminal 4 of the theft warning control module
- to theft warning relay-1 terminal ②.

With power and ground supplied, power to the clutch interlock relay (M/T models) or inhibitor switch (A/T models) is interrupted. The starter motor will not crank and the engine will not start.

Power is supplied at all times

- through 10A fuse (No. 35), located in fusible link and fuse box)
- to theft warning relay-2 terminals (1) and (3), and
- to theft warning relay-3 terminal ①.

Power is supplied at all times

- through 15A fuse (No. 37, located in fusible link and fuse box)
- to theft warning relay-3 terminal 6.

Power is supplied at all times

- through 15A fuse (No. 36), located in the fusible link and fuse box)
- to theft warning relay-3 terminal ③.

When the theft warning system is triggered, ground is supplied intermittently

- from terminal (12) of the theft warning control module
- to theft warning relay-2 terminal ② and
- to theft warning relay-3 terminal ②.

The headlamps flash and the horn sounds intermittently.

The alarm automatically turns off after 2 or 3 minutes but will reactivate if the vehicle is tampered with again.

THEFT WARNING SYSTEM DEACTIVATION

To deactivate the theft warning system, a door or the trunk lid must be unlocked with the key.

When the key is used to unlock a door, theft warning control module terminal (1) receives a ground signal from terminal (2) of the front LH or RH key cylinder switch.

When the key is used to unlock the trunk lid, theft warning control module terminal (1) receives a ground signal from terminal (1) of the trunk key cylinder switch.

When the theft warning control module receives either one of these signals, the theft warning system is deactivated.

EL-162 1204

Component Parts and Harness Connector Location

Door switch Door lock actuator Trunk room lamp switch Trunk key cylinder switch MA Theft warning horn EM Relay box-2 Relay box-1 LC EC Door switch Æ Door lock actuator CL. Door switch Theft warning control module Door switch A Hood switch MT C Theft warning В AT $\subseteq \mathcal{G}$ Theft warning relay-1 horn-Hood switch FA RA Theft warning relay-2 Theft warning BR relay-3 E ST Theft warning control module Door lock RS actuator Inhibitor relay CLUTCH\ > BT Key cylinder switch HA Trunk key cylinder switch

AEL170

IDX

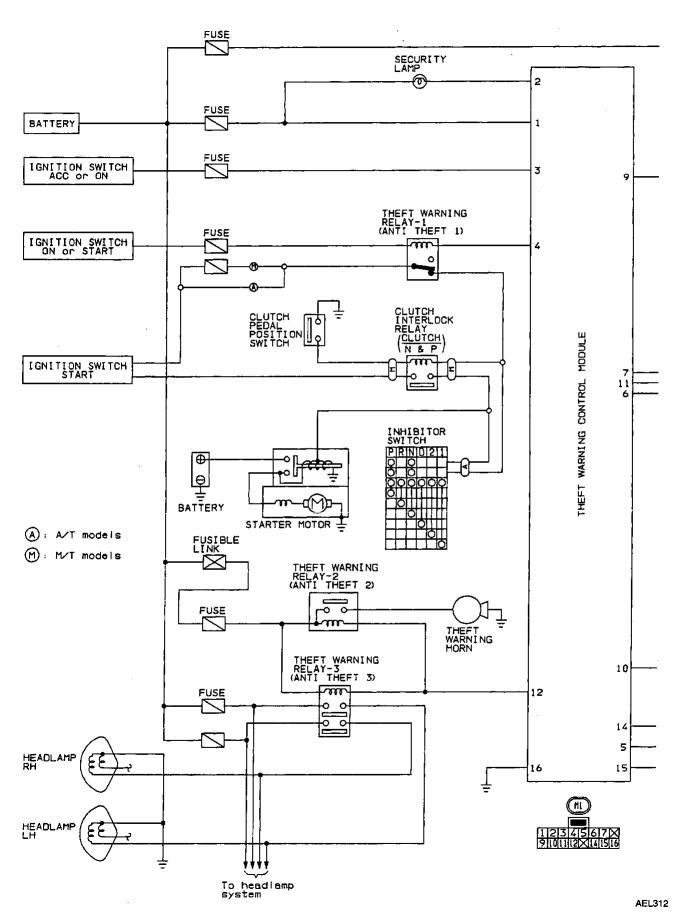
G

Trunk room lamp

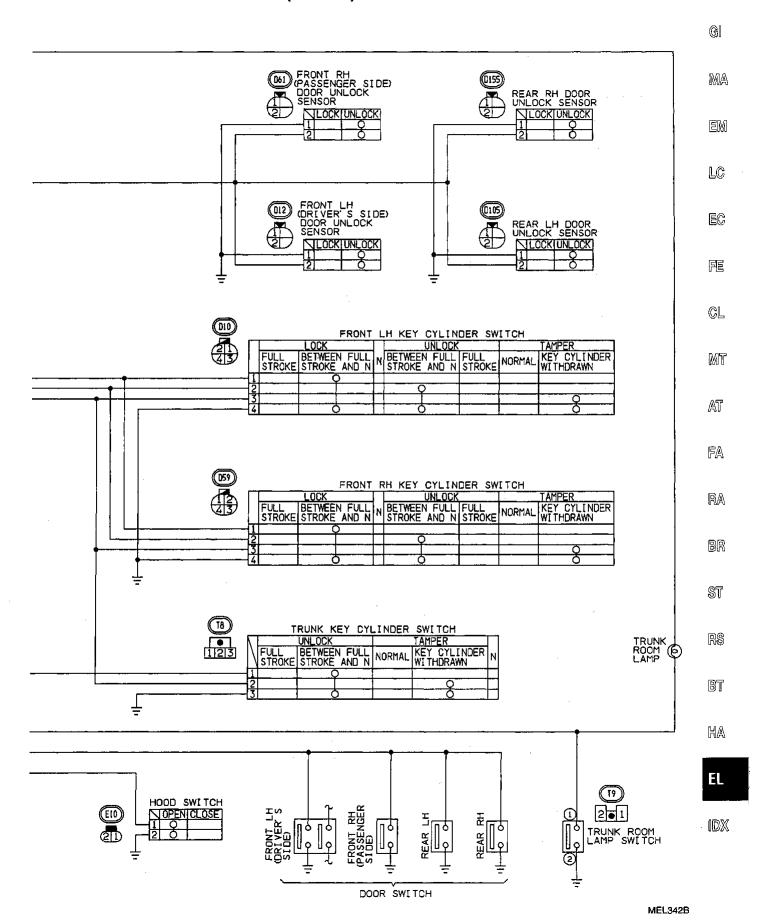
switch

G

Circuit Diagram for Quick Pinpoint Check

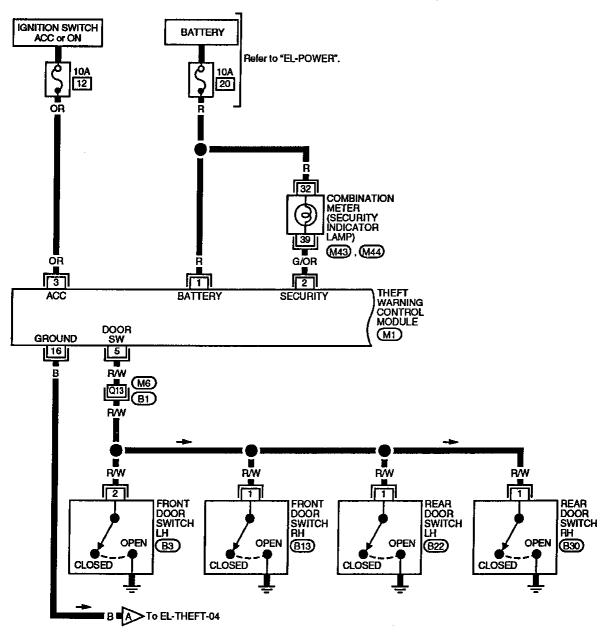


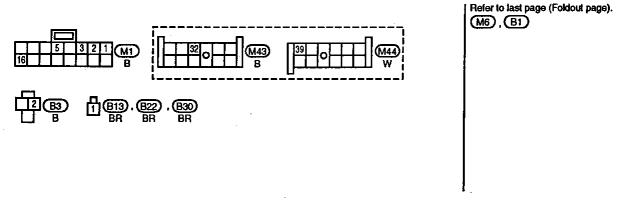
Circuit Diagram for Quick Pinpoint Check (Cont'd)

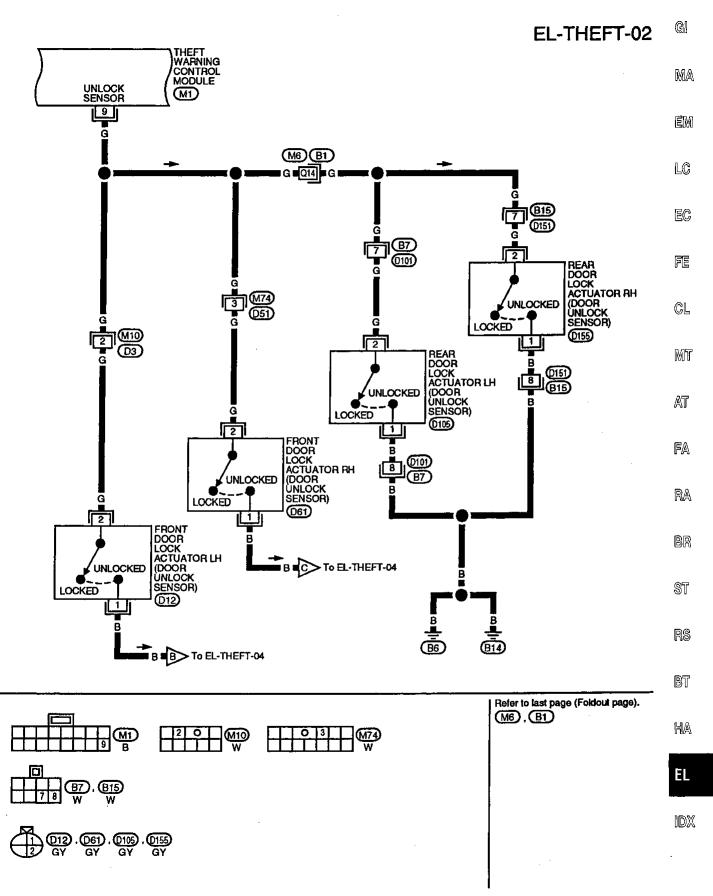


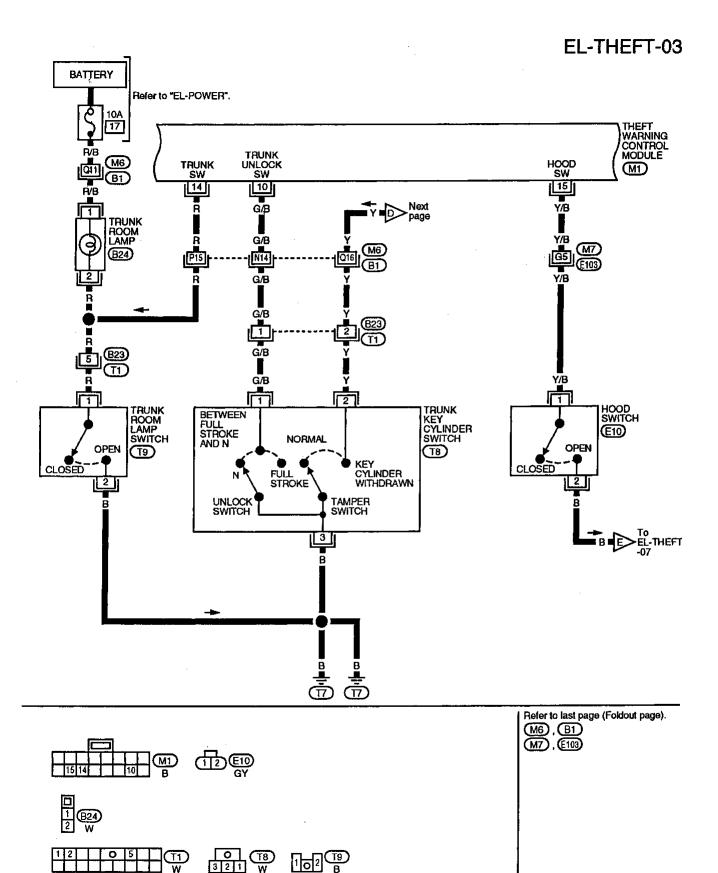
Wiring Diagram -THEFT-

EL-THEFT-01

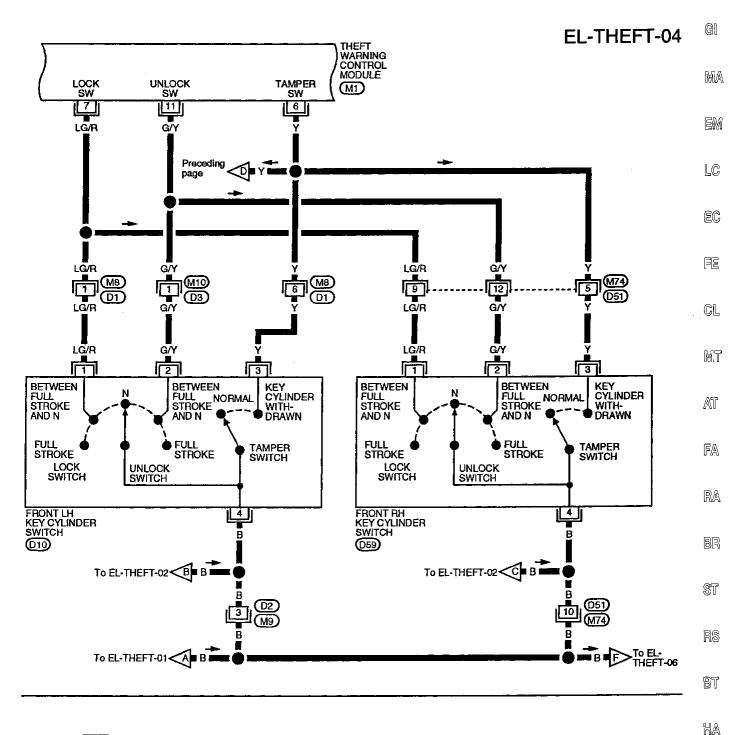


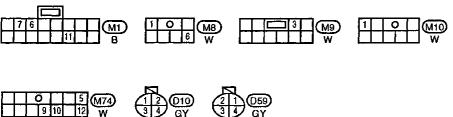




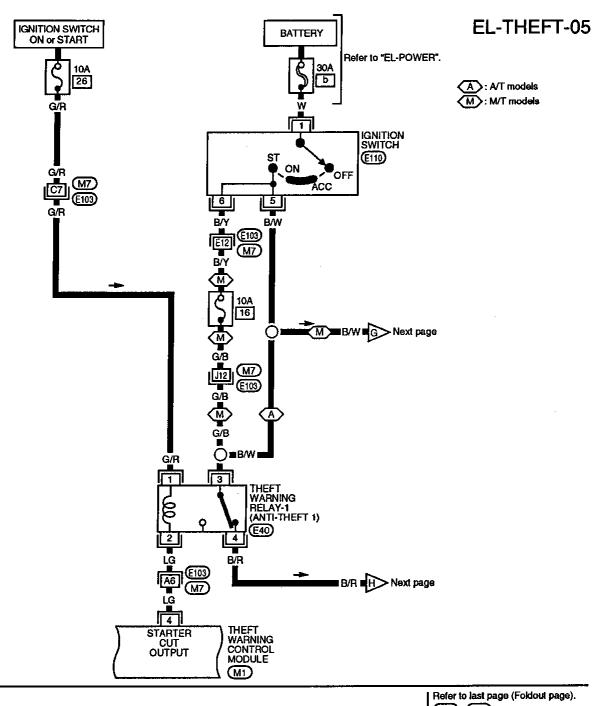


Wiring Diagram -THEFT- (Cont'd)

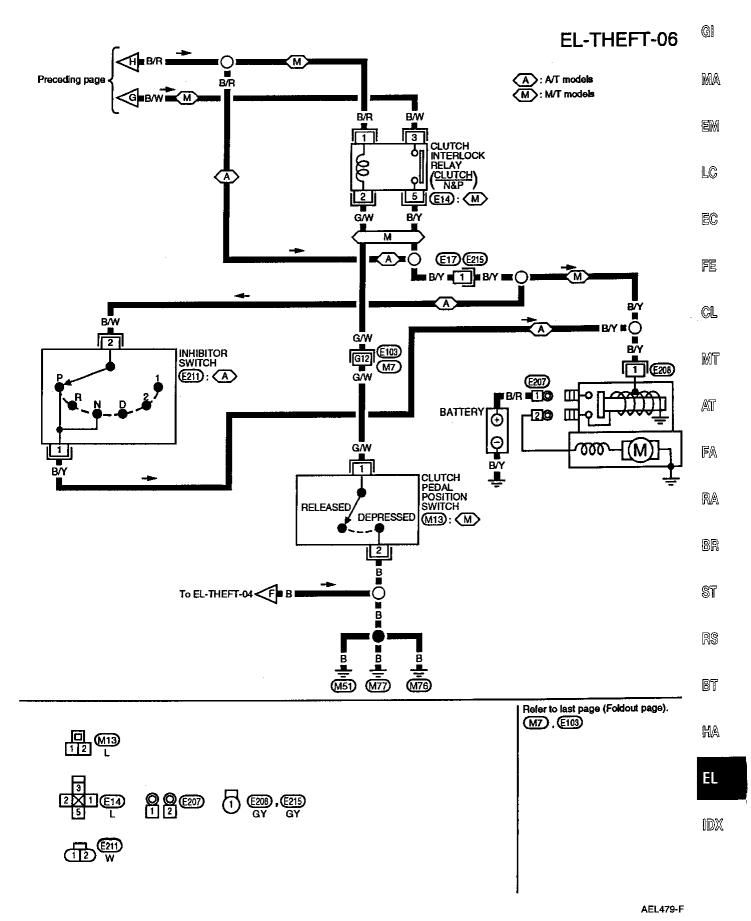


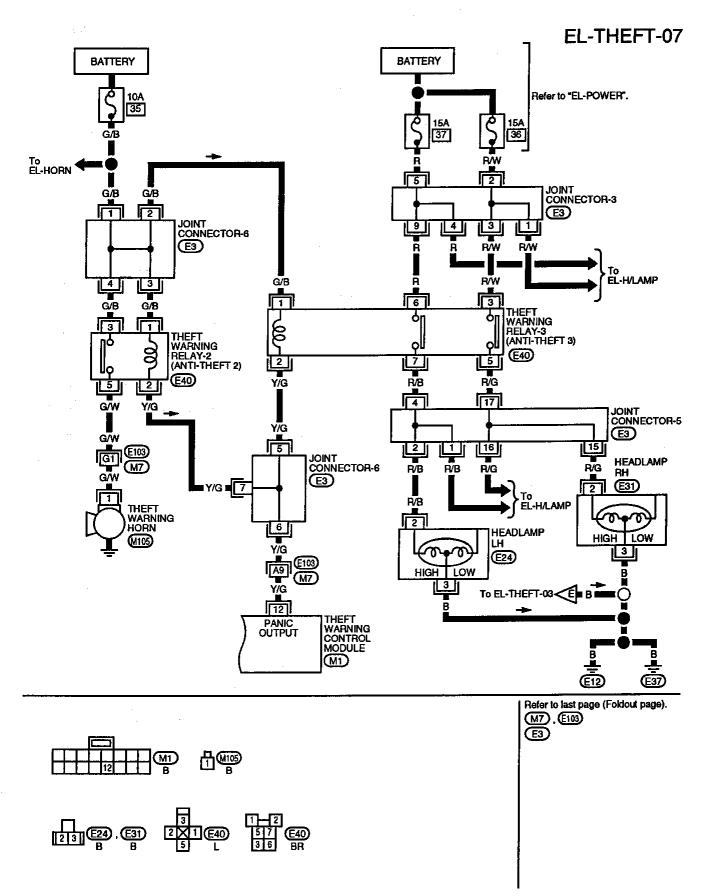


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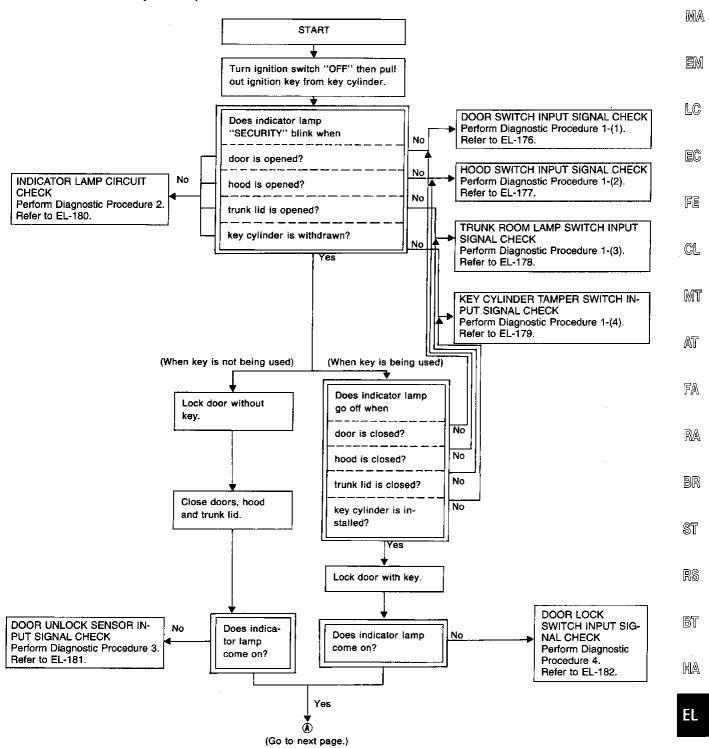




Trouble Diagnoses

SYSTEM OPERATION CHECK

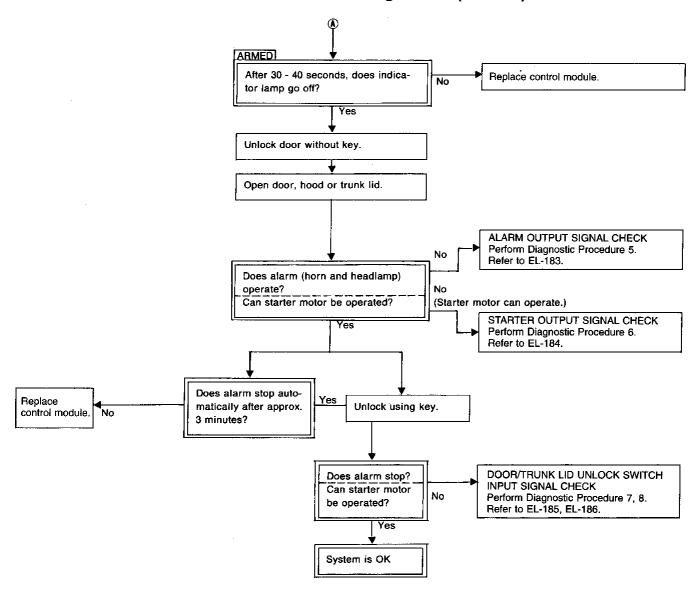
If ignition switch is set in the "ACC" position in the step of START to ARMED or in the ARMED state shown in this flow chart, the system operation is canceled.



1215

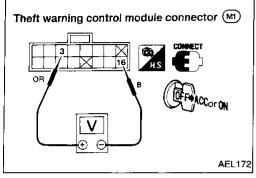
G

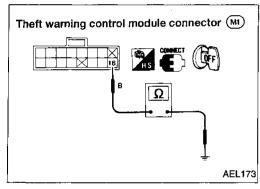
Trouble Diagnoses (Cont'd)



1216

Theft warning control module connector (M1) AEL171





Trouble Diagnoses (Cont'd) POWER SUPPLY AND GROUND CIRCUIT CHECK

Main power supply circuit check

Terminale	Ignition switch position				
Terminals OFF		ACC	ON		
1 - 16	Battery positive voltage	Battery positive voltage	Battery positive voltage		

Power supply circuit check for system cancel

Tamaianla	Ignition switch position				
Terminals	OFF	ACC	ON		
3 - 16	ov	Battery positive voltage	Battery positive voltage		

Ground circuit check

Terminals	Continuity
16 - Ground	Yes

1217

GI

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BR

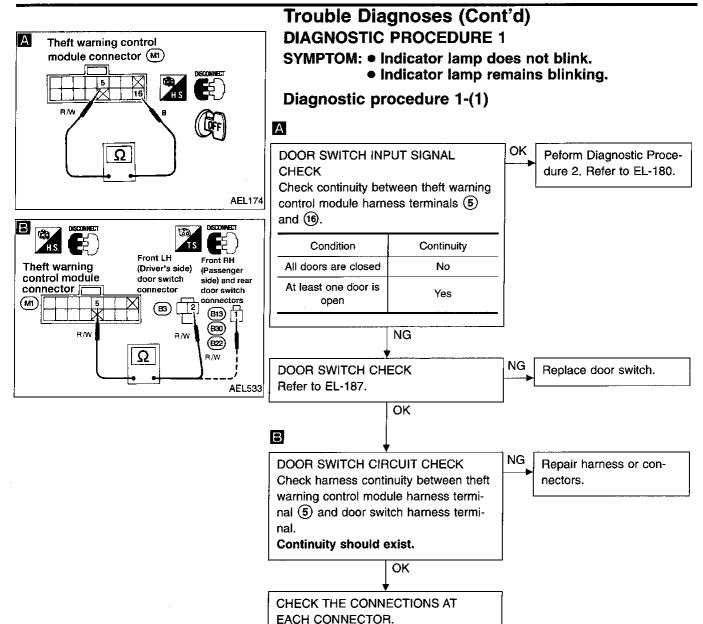
ST

RS

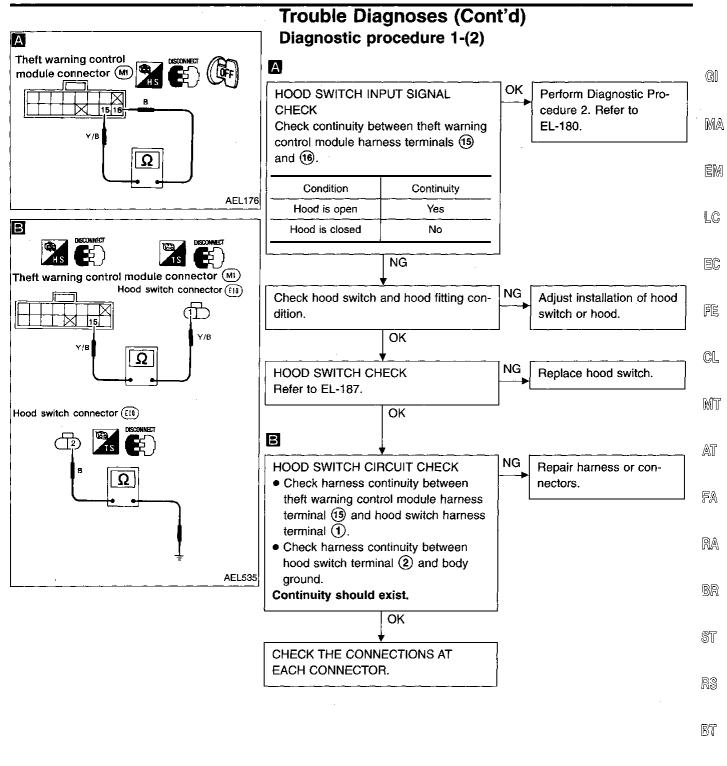
BT

HA

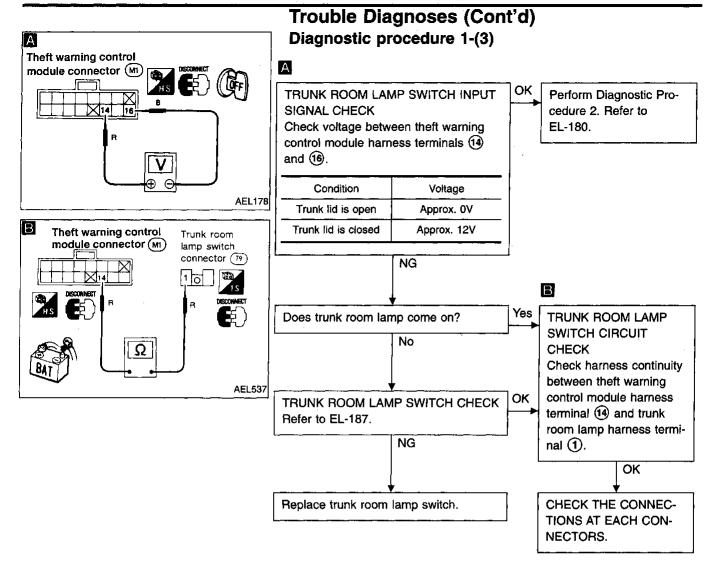
JDX



EL-176 1218

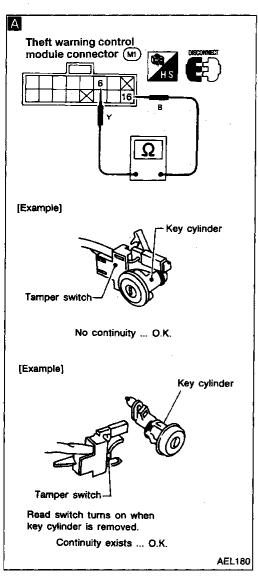


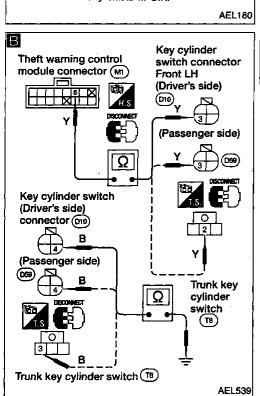
HA

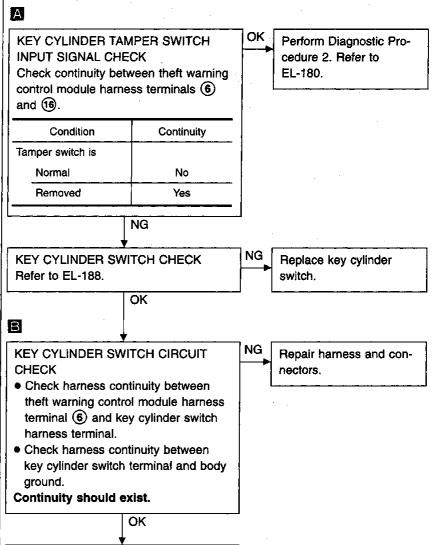


Trouble Diagnoses (Cont'd)

Diagnostic procedure 1-(4)







1221

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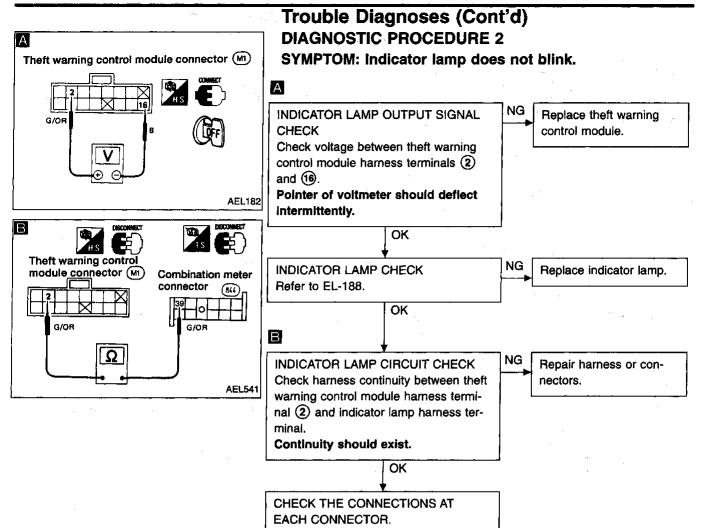
ST

RS

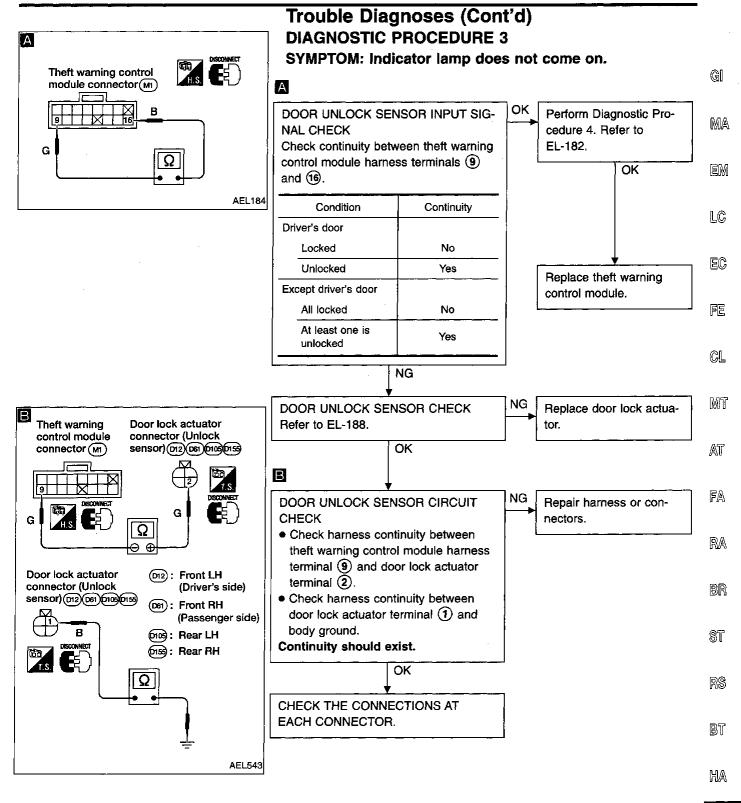
HA

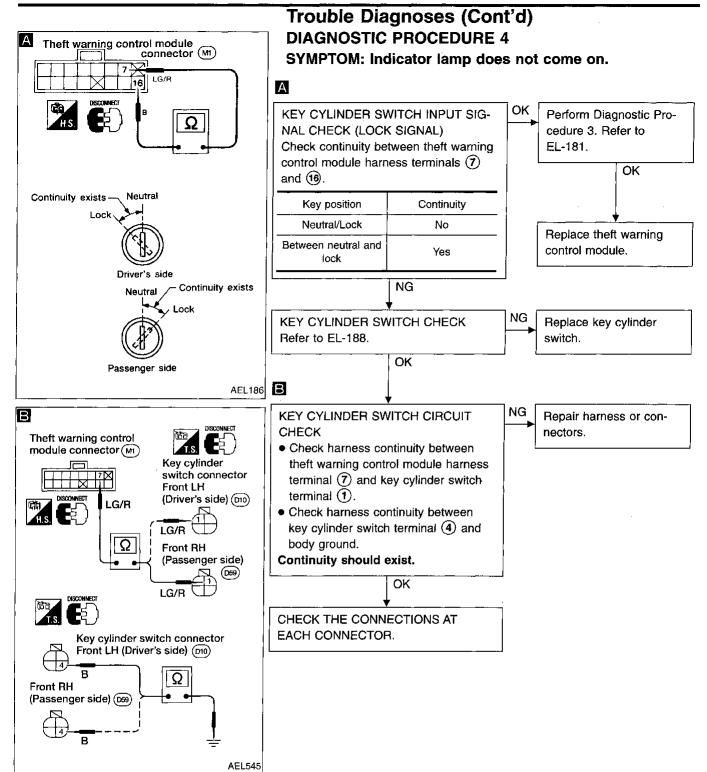
CHECK THE CONNECTIONS AT

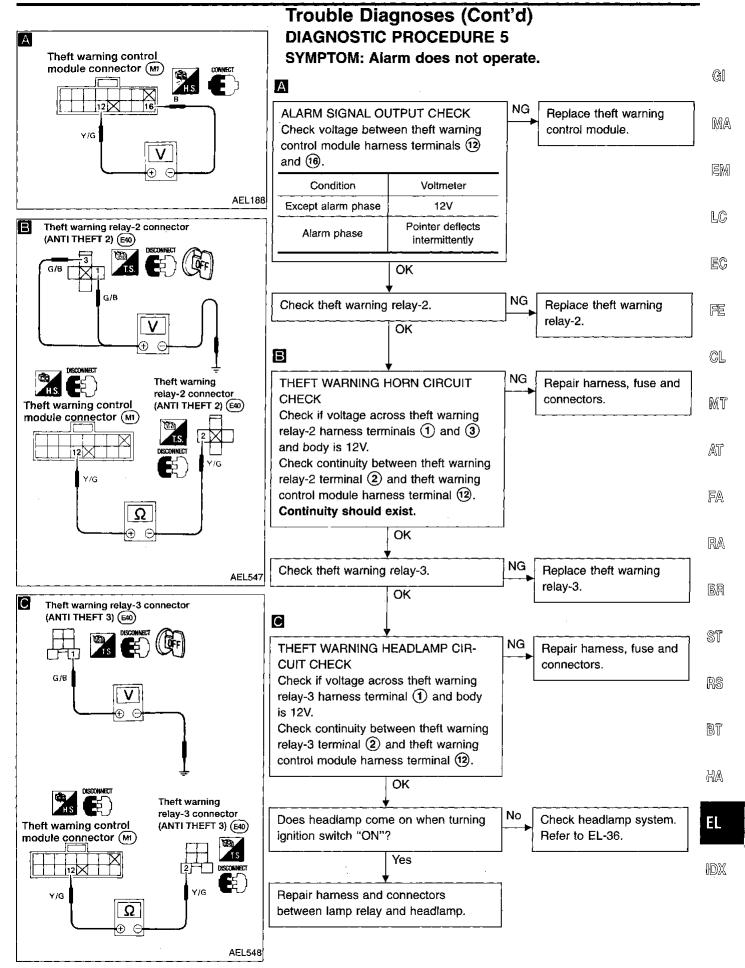
EACH CONNECTOR.

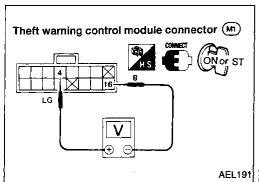


EL-180 1222



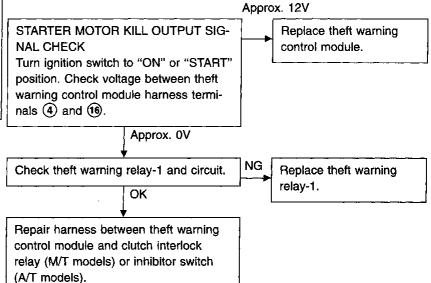


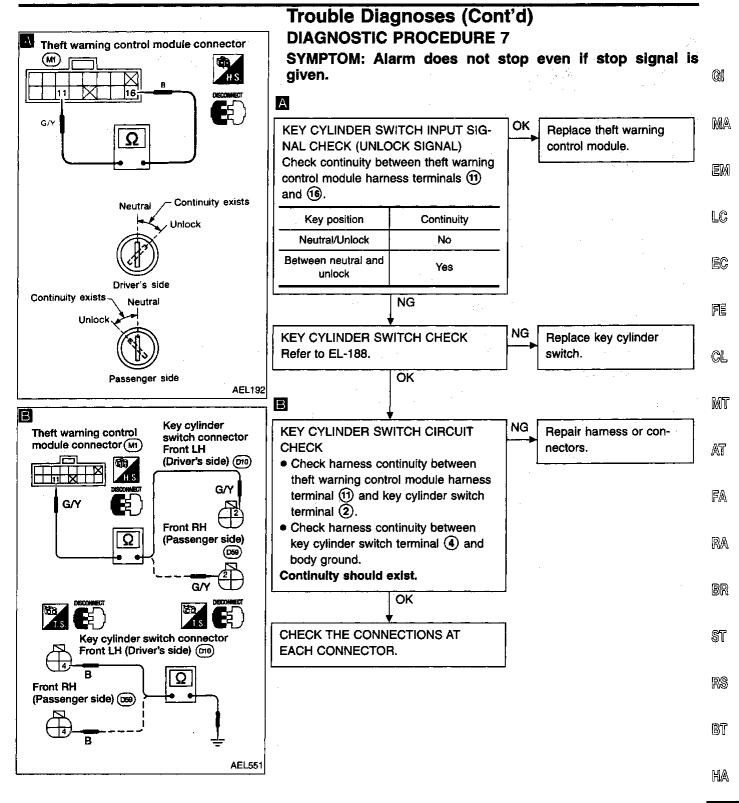




Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 6

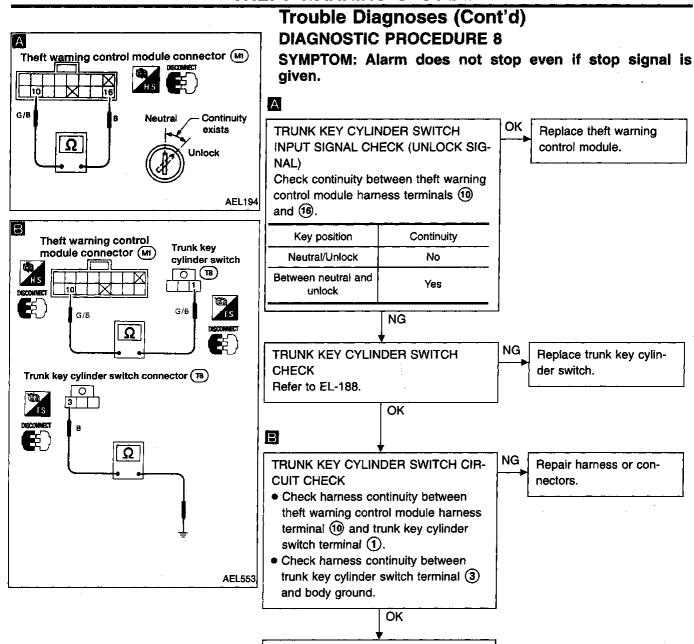
SYMPTOM: STARTER MOTOR can be operated. (Starter killed phase)





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IDX



CHECK THE CONNECTIONS AT

EACH CONNECTOR.

Front LH (Driver's side) (Passenger side) and rear LH and RH (Passenger side) and rear LH and RH (Passenger side) and rear LH and RH

Trouble Diagnoses (Cont'd) ELECTRICAL COMPONENTS INSPECTION

Door switches

Check continuity between terminal ①, ② and switch body.

Terminal	Pushed	Released		
1, 2		ρ		
switch body		0		



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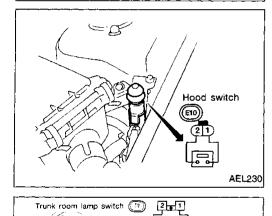
ST

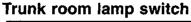
RS

Hood switch

Check continuity between terminals when hood switch is pushed and released.

Terminal	Pushed	Released		
1		9		
2		0		





Terminal	Trunk lid			
lennina	Closed	Open		
1		Ŷ		
2		0		

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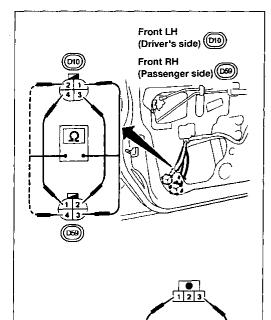
Trouble Diagnoses (Cont'd) Key cylinder switch

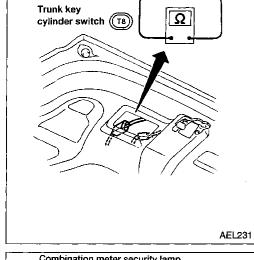
Door

		i	IPER TCH	DOOF	DOOR LOCK SWITCH DO		DOOR	OOR UNLOCK SWITCH		
		Key cyl- inder is installed	Key cyl- inder is removed	Full stroke	l stroke		Neutral		veen ull oke nd utral	Full stroke
F	1				9					
	2									
	3		9							
Ţ.	4		Ó		Ó					

Trunk

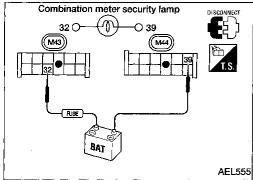
	TAMPER	SWITCH	Trunk lid unlock switch				
	Key cylinder is installed	Key cylinder is removed	Full stroke	Between full stroke and neutral		Neutral	
1					?		
2		P					
3		Ō			5		





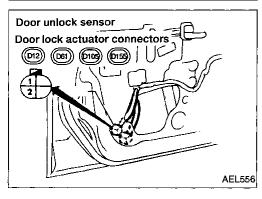
Indicator lamp (security lamp)

Check if it lights when 12V is supplied.

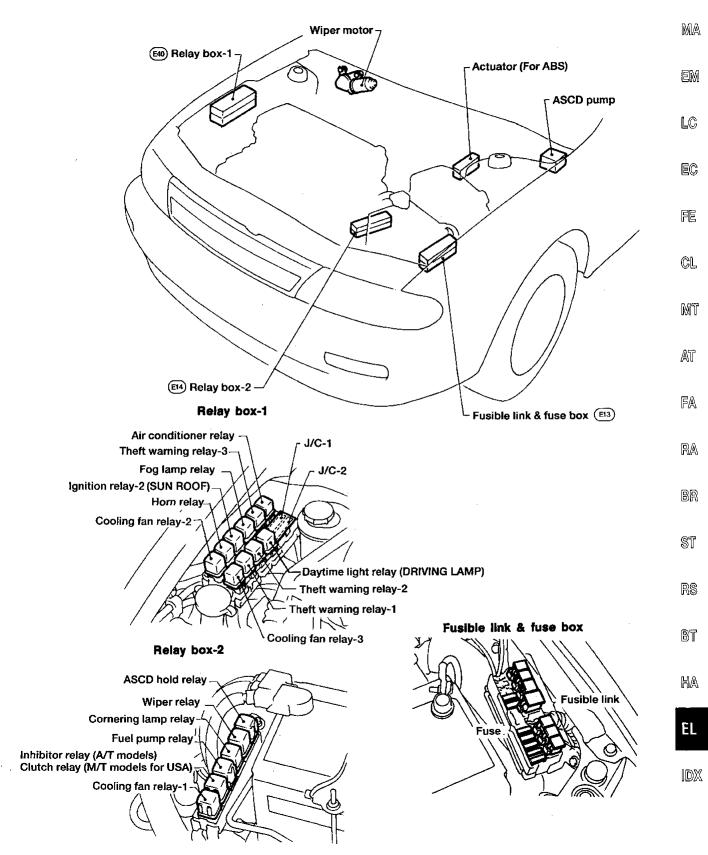


Door unlock sensor

	LOCK	UNLOCK
1	<u> </u>	ρ
2		, O



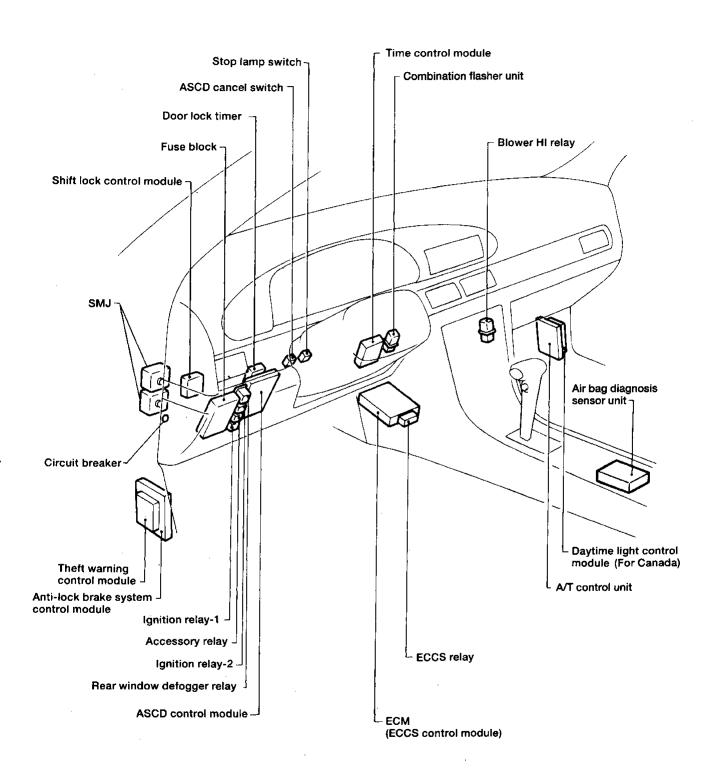
Engine Compartment



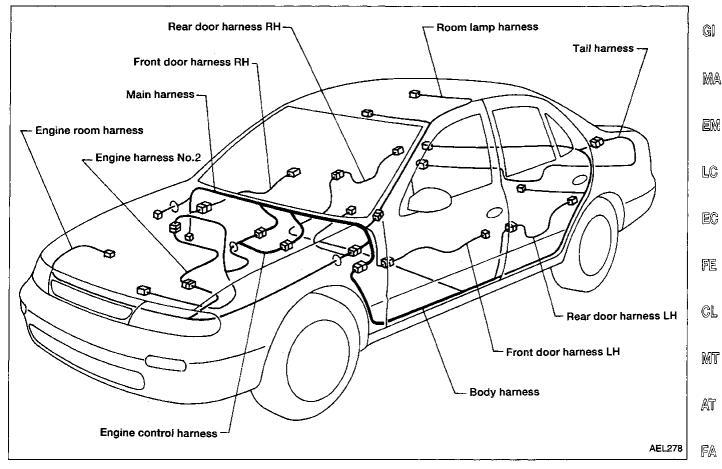
AEL497

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Passenger Compartment



Outline



The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Engine Room Harness (Engine Compartment)
- Main Harness
- Body Harness

The grid reference is placed on the page where connectors are listed in number order.

To the left of the connector number code there is a grid reference.

Example:

G2 (E1): ASCD actuator

arid reference

To use the grid reference

- 1) Find the desired connector number on the connector list.
- 2) Find the grid reference.
- 3) On the drawing, find the crossing of the grid reference letter column and number row.
- 4) Find the connector number in the crossing zone.
- 5) Follow the line (if used) to the connector.

The approximate on-vehicle location of the connector has been found.

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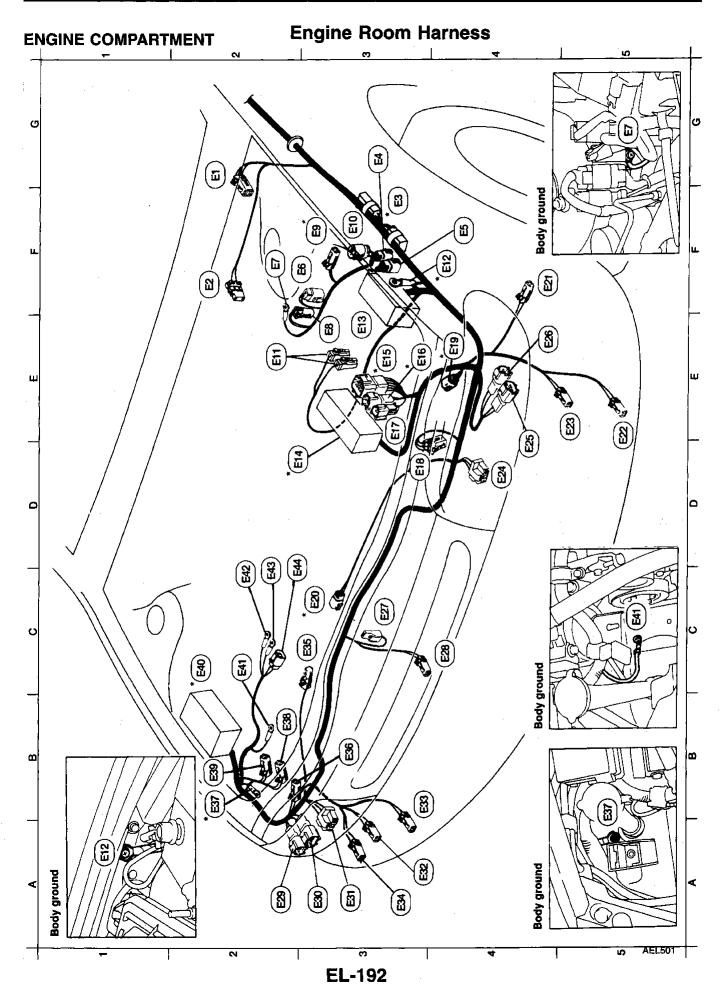
BR

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HA



Engine Room Harness (Cont'd)

Engine room harness

F2 (E2): Brake fluid level switch G2 (E): ASCD actuator

F3*(E): Joint connectors 3-6

G3 (E4): Actuator (For ABS)

(E): Actuator (For ABS) 4

(E): Actuator (For ABS) E E

E): Body ground (For ABS) 낊

F3*(B): Dropping resistor (A/T models) (B): Front sensor LH (For ABS) ដ

(E10): Hood switch (For theft warning system) ព

(E11): Battery

(E13): Fusible link and fuse box F4 * E12): Body ground

D3*(E14): Relay box-2

E3 *€16 : To @24 E3 *E66 : To @

E17: To E29

(E18): Air conditioning triple-pressure switch E4 *(E19): Cooling fan motor-1 4

C3*E20: Cooling fan motor-2

(E21): Front side marker lamp LH

(E22): Front fog lamp LH (For standard fog lamp models)

E3 : Front turn signal lamp LH

(E24): Headlamp LH

(ES): Clearance and cornering lamp LH

2 7

(23): Clearance lamp LH

EZ : Horn

(E28): Ambient sensor 2

(E2): Clearance lamp RH Å2 (Ex): Clearance and cornering lamp RH Est : Headlamp RH Š

8

(E22): Front turn signal lamp RH Ą

(E33): Front fog lamp RH (For standard fog lamp models) 8

(ЕЭ): Front side marker RH ESS: Compressor Ą

B3 (Es): Front fog lamp sub-harness (For optional fog lamp models) B2*[57]: Body ground

B2 (E3): Washer level switch (For Canada) B2 (E9): Washer motor

C2 (E4): Body ground C2*E40 : Relay box-1

C2 (E42): Generator

D2 (印): Generator

(E44): Generator

*: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection. GI

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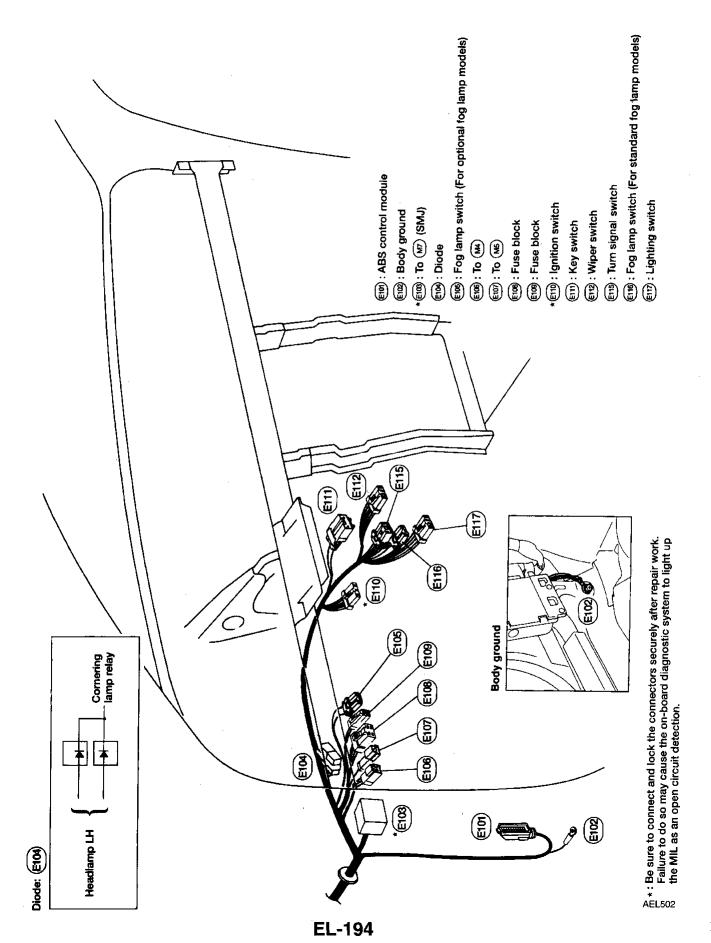
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Engine Room Harness (Cont'd)

PASSENGER COMPARTMENT



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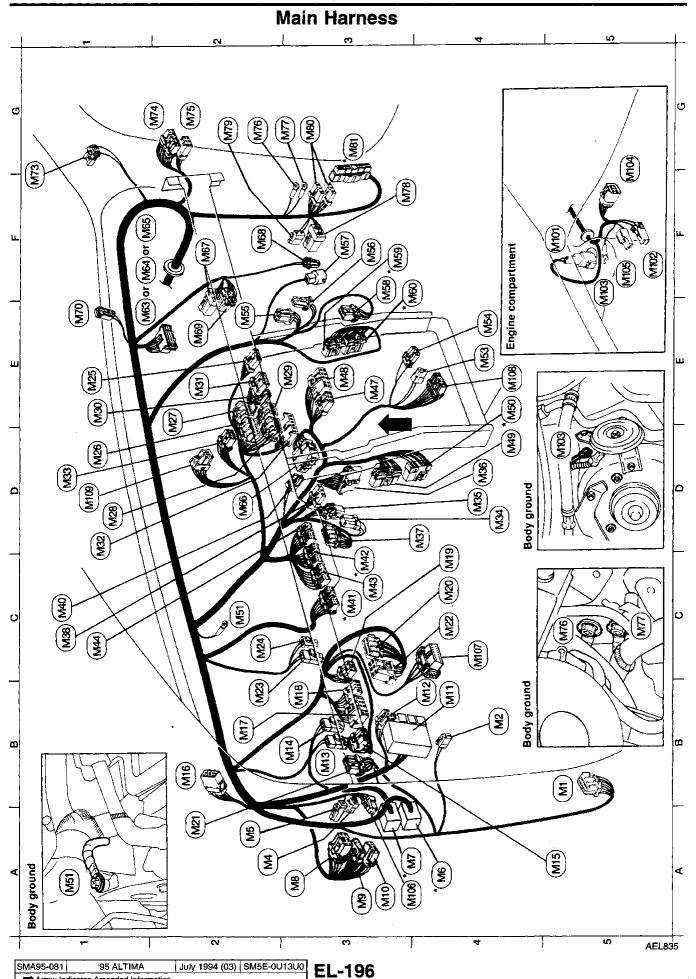
ST

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Arrow Indicates Amended Information

Main Harness (Cont'd)

gi (MS): Joint connector-8 (With audio amp. for Canada) (MB): Joint connector-9 (With audio amp. for Canada) Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection. E1 (MB): Joint connector-7 (With audio amp. for USA) G3 (460) : Daytime light control module (For Canada) (mo): Shift lock solenoid, park position switch and A/T illumination (A/T models) MA (Am): Power steering oil pressure switch (mg): Horn (For theft warning system) B4 (mm): Data link connector for GST F5 (Mig): Front sensor RH (For ABS) (MB): Glove box lamp switch D5 (4703): Body ground (For ABS) LC (MB): Intake door motor **Engine Compartment** F2 (with: Fan control amp. (Mm): Sunitoad sensor G3-(Me): A/T control unit G2 (Mm): Blower motor G5 (mg): Wiper motor G3 (M7): Body ground G2 (476): Body ground F3 (478): Fan resistor F1 (M73): Tweeter RH EC D2 🙈 : To 🕰 G2 (M3): To (002) F3-689: To (73) F4•(weg): To (F22) G2 (474): To (061) B3 (4108): To (831) FE E2 £ ß 낊 Ш CL. Daytime light control module MT Parking brake switch (M38): Rear window defogger switch Daytime light relay Daytime light relay (Mo): Combination flasher unit (MS): Fresh vent door motor AT (MS): Thermo control amp. (Mg): Time control module (MS): Ashtray illumination C3*(***): Combination meter C3 (449): Combination meter C3•(Mc): Combination meter (Mee): Combination meter (wee): Air mix door motor (Mode door motor (Maco): In-vehicle sensor (MST): Glove box lamp (M66): Blower HI-relay (MS): Cigarette lighter (MSI): Body Ground FA E4+18880: To (PA) D4.448 : To F2 Mr. Radio Me : Radio RA In joint connector-9 (M65) Diode / In joint connector-8 (M64 BR 양 4 Z 8 ጀ 8 δ ប ប 贸 8 굨 2 2 岔 £ Brake fluid level switch Fuse block Combination meter ST (MI3): Clutch pedal position switch (M/T models for USA) (मान) : ASCD clutch pedal position switch (M/T models) RS (M2): Shift lock control module (A/T models) BT (MIS): Data link connector for CONSULT (M): Theft warning control module (Mon): Potentio temperature control (M2): Rear window detogger relay (433): Clock (With active speaker (MI): Illumination control switch (wze): Auto air conditioning unit (M27): Auto air conditioning unit (For theft warning system) HA (AD): Air conditioning switch (MS): ASCD control module (Mag): Push control modute Mag: Push control module (M23): ASCD cancel switch (M24): Stop lamp switch (wz): Door lock timer (wzs): Hazard switch (wg): Circuit breaker audio system) A4*(NE): To (B) (SMJ) A4+(W): To (E103) (SMJ) (Mr): ASCD switch (MIB): Mirror switch (MI): Fuse block Weg: Fan switch 88 : To (Fig) (M): To (E108) **№** : To □ 39 of : (8) F 68 MIS: TO RI IDX

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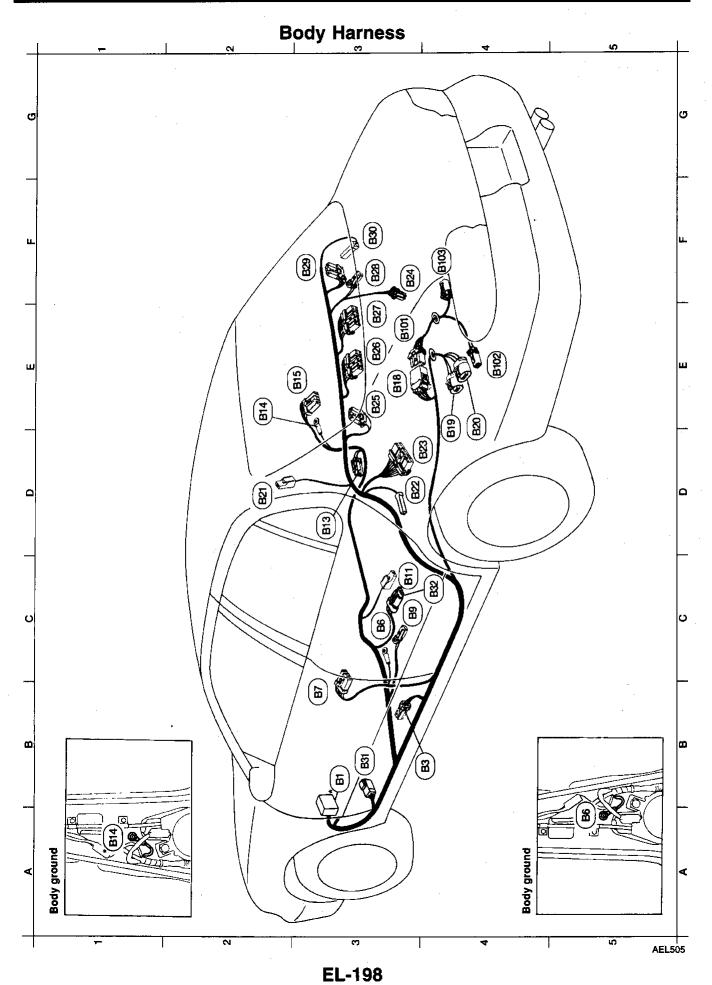
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Body Harness (Cont'd)

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B3 * (B1): To (M6) (SMJ.)

BZ : Rear door switch LH

EE (T)

(E24): Trunk room lamp ES : Rear speaker LH

> 83 \aleph **E**3 83

(B3): Front door switch LH (Driver's side)

(B): Body ground ဌ

(B): To (Dio) 83

(B9): Seat belt switch

(B11): Parking brake switch ဌ

(віз): Front door switch RH (Passenger side) (B14): Body ground 8

(828): High-mounted stop lamp (Without rear air spoiler)

ES : Front speaker amp. (827): Rear speaker amp.

> (BIS): To (DIS) 낊

(B18): To (B10) **E**4

(eia): Fuel pump

(B20): Fuel tank gauge unit 4

(82): Rear window defogger condenser

हाळ : Rear sensor RH (For ABS) (For ABS) ள் : To ள 83 E4

C3 * E2 : Rear heated oxygen sensor

B30 : Rear door switch RH

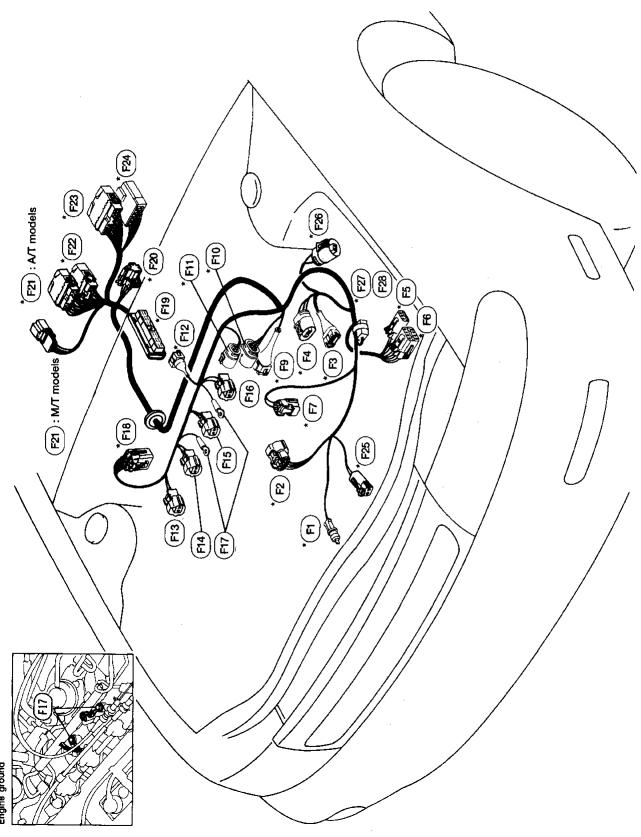
(B3): To (M106)

(822): Rear.speaker RH

盟 ជ **B**3

*: Be sure to connect and lock the connectors securely after repair work.
 Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.

Engine Control Harness



AEL507

Engine Control Harness (Cont'd)

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Engine control harness

'(머): Front oxygen sensor

* (F2): Camshaft position sensor (F): Mass air flow sensor

(F4): Power transistor

* (FI): ECM (ECCS control module)

* (Pa): ECCS relay

* (P2): To (MSS) * FZZ : To Mess * F23 : To Me * F24 : To MSB

ि : Engine ground Fig.: Injector No. 4

, (Fig. 10 Exes

* (F): Revolution sensor (A/T models)

'(F): To terminal cord assembly (A/T models)

* (P): Throttle position switch (A/T models) (F): Ignition coil

*(Fi1): EGR temperature sensor ' (Fig): Throttle position sensor

* (FS): Crankshaft position sensor (OBD) * (m): Intake air temperature sensor

(Fi2): EGR control-solenoid valve

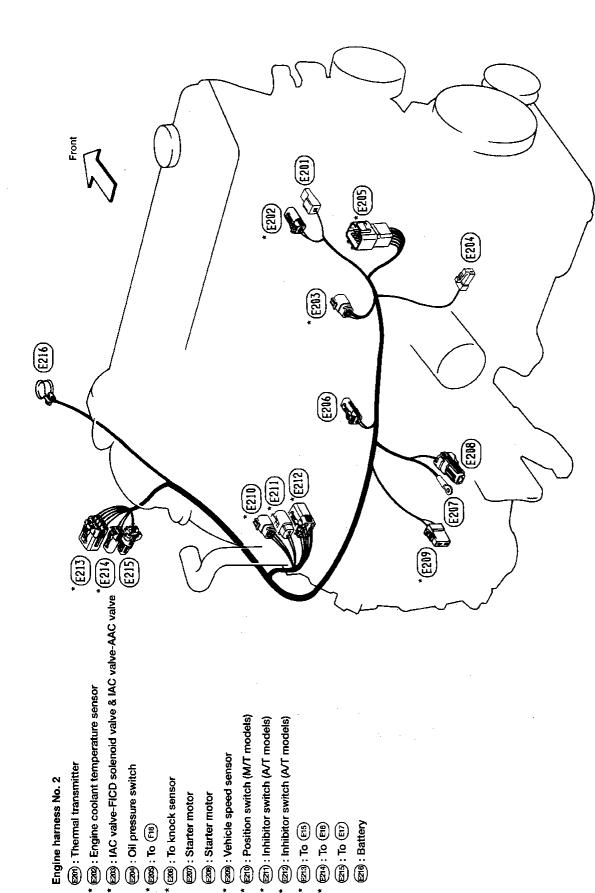
দি4 : Injector No. 2 F13 : Injector No. 1

Fa : Condenser (FZ): Resistor

F15 : Injector No. 3

Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection. *: Be sure to connect and lock the connectors securely after repair work.

Engine Harness No. 2

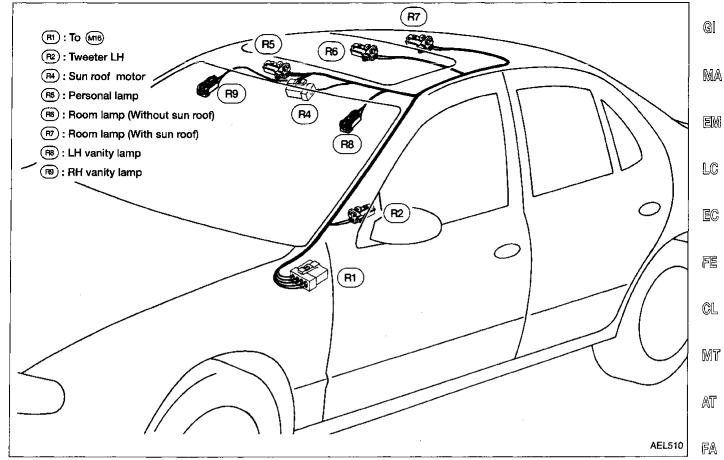


*: Be sure to connect and lock the connectors securely after repair work.

Failure to do so may cause the on-board diagnostic system to light up
the MIL as an open circuit detection.

AEL509

Room Lamp Harness



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BR

ST

RS

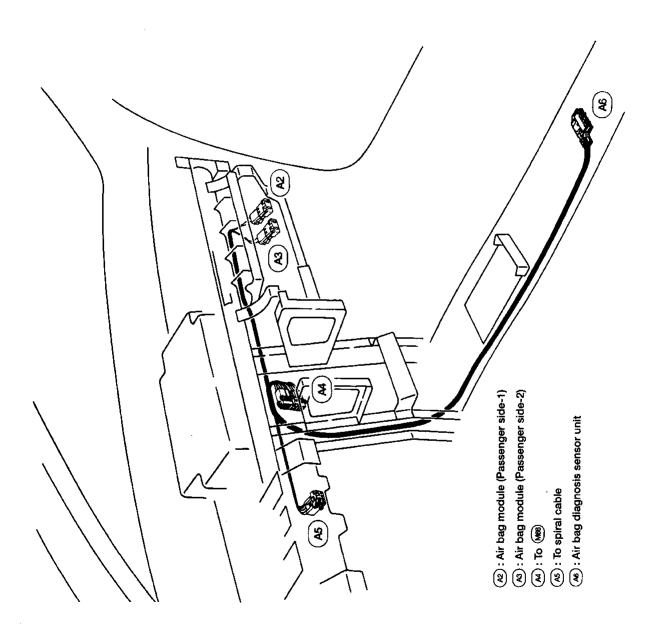
BT

MA

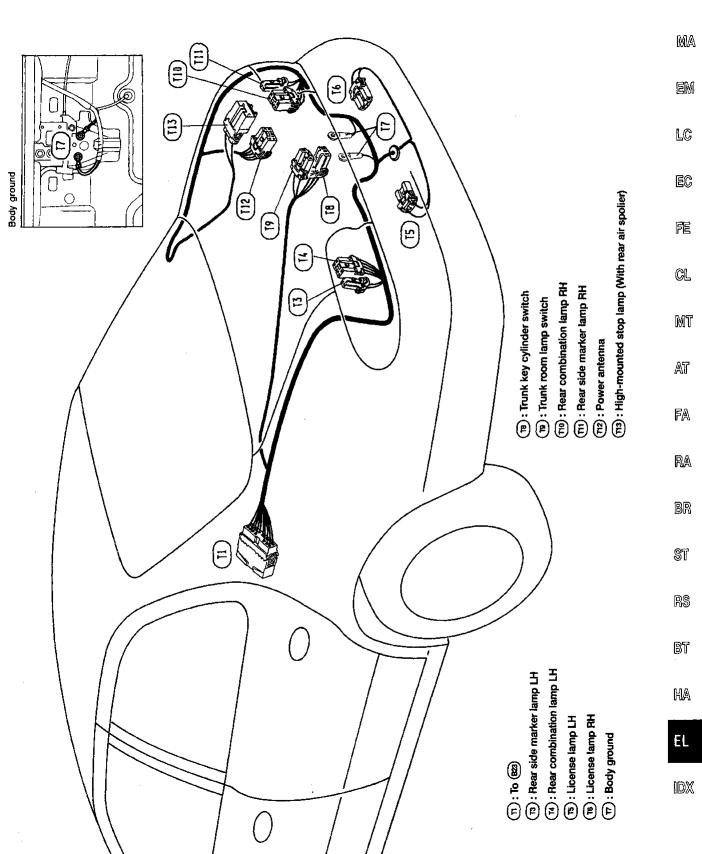
ΕL

IDX

Air Bag Harness



Tail Harness

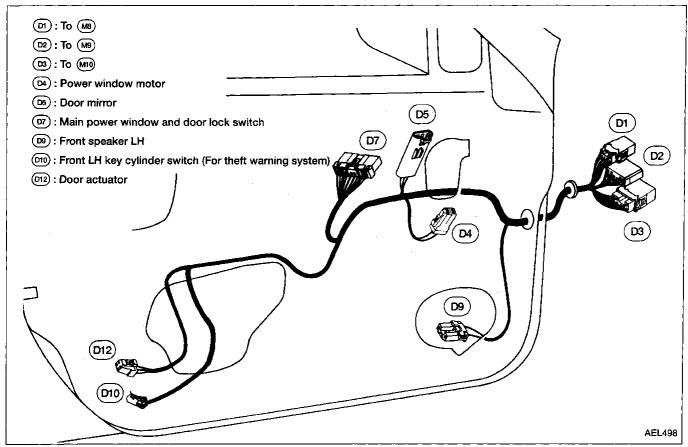


Gl

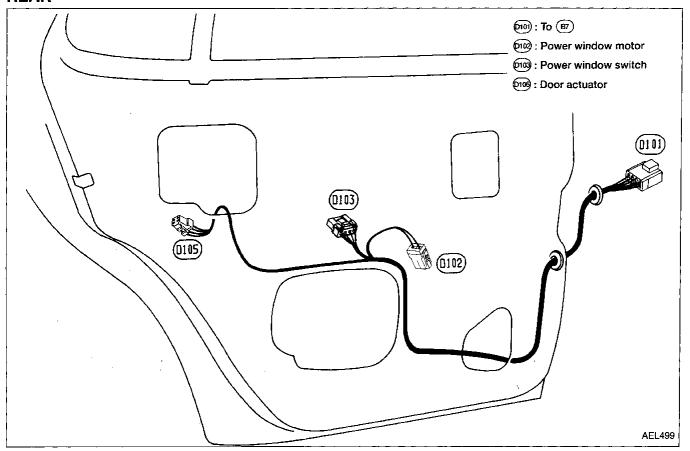
AEL286

FRONT

Door Harness (LH side)

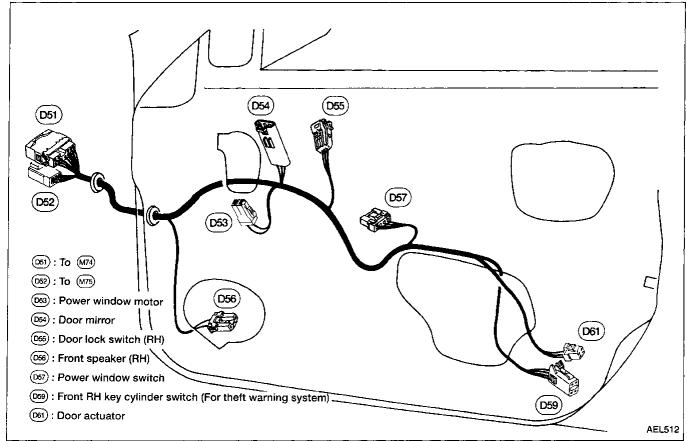


REAR

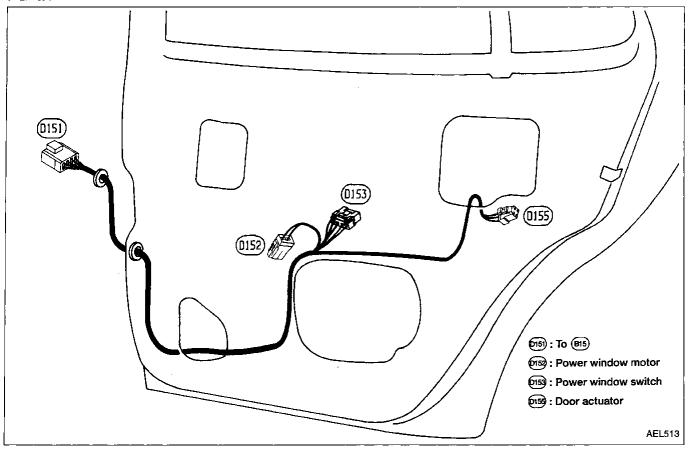


FRONT

Door Harness (RH side)



REAR



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