ELECTRICAL SYSTEM



MODIFICATION NOTICE:

- Wiring diagrams have been changed.
- Combination meter has been changed.
- Headlamp has been changed.
- Headlamp aiming control has been added.
- Headlamp washer has been added.
- A hazard reminder feature has been added to the multi-remote control system.
- NATS (Nissan Anti-Theft System) has been changed.

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Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" 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 SRS system composition which is available to NISSAN MODEL D22 is as follows (The composition varies according to the destination and optional equipment.):

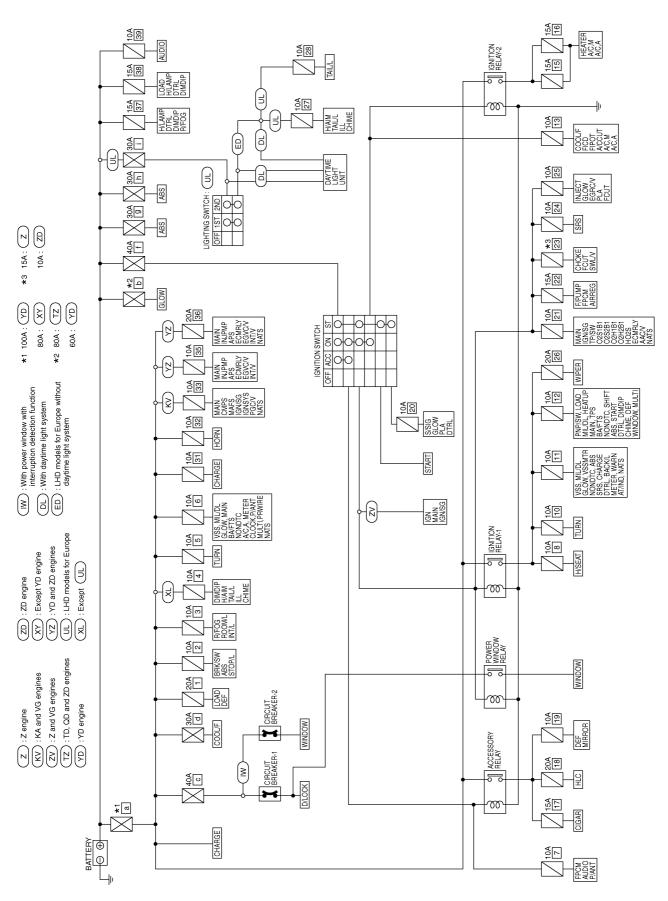
Driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioner, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

Information necessary to service the system safely is included in the RS section of this Service Manual.

WARNING:

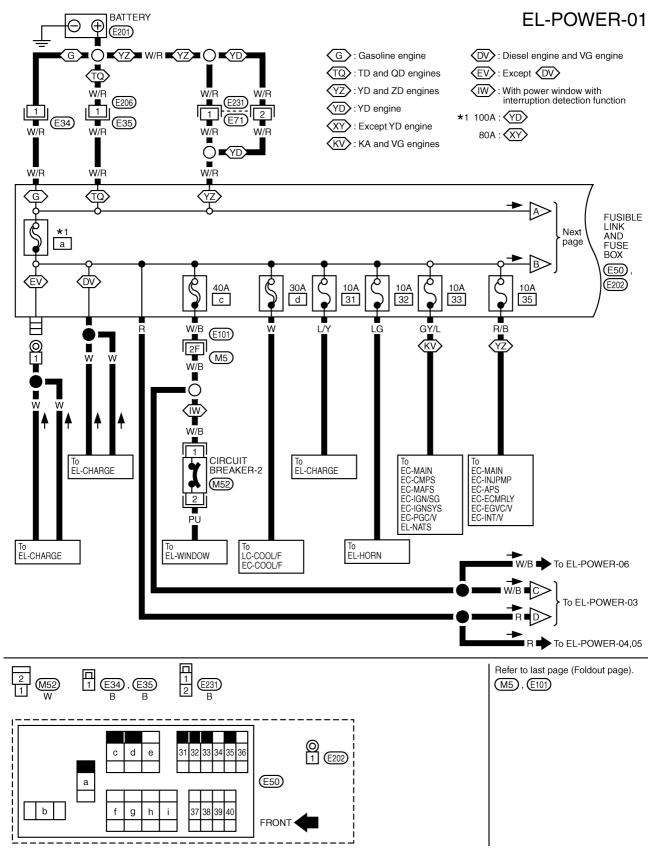
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Baq Module, see the RS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow harness connector.

Schematic



Wiring Diagram — POWER —

BATTERY POWER SUPPLY — IGNITION SWITCH IN ANY POSITION



Wiring Diagram — POWER — (Cont'd) EL-POWER-02

YZ: YD and ZD engines

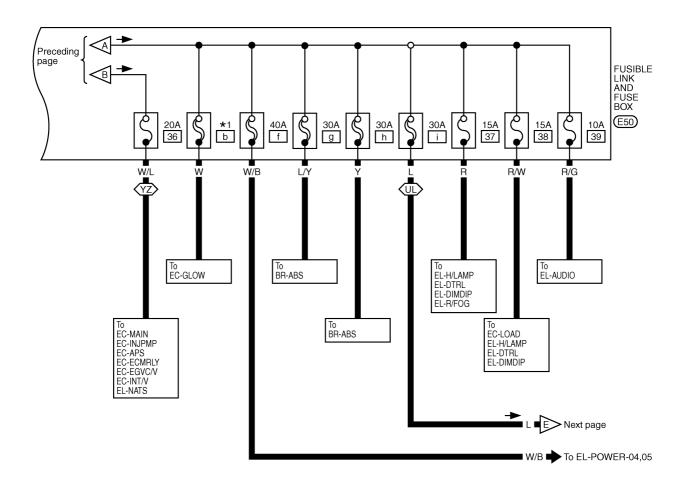
UL: LHD models for Europe

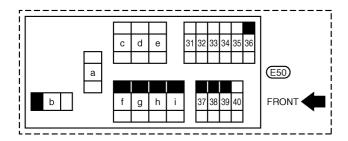
YD : YD engine

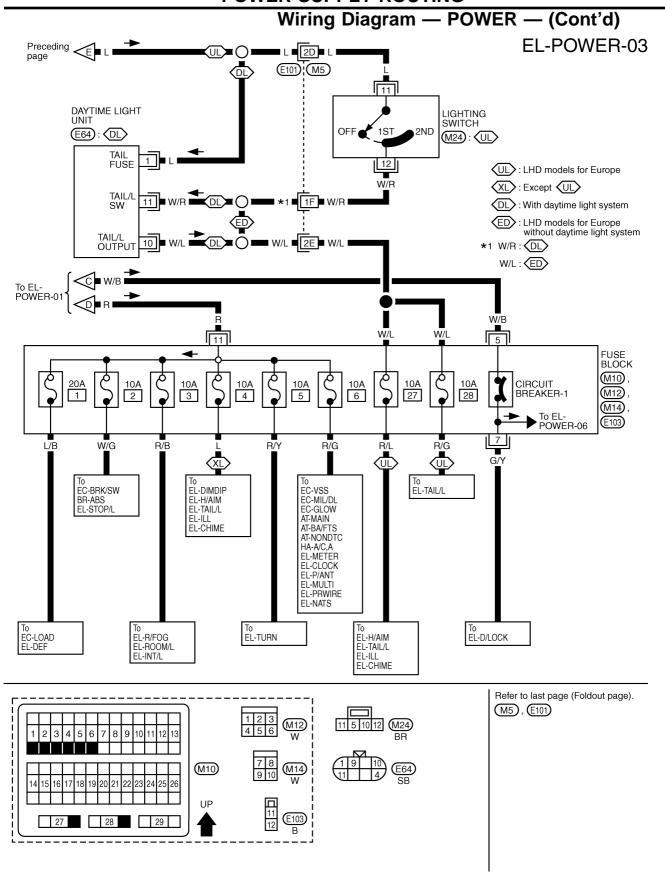
TZ: TD, QD and ZD engines

*1 80A : TZ

60A : (YD)



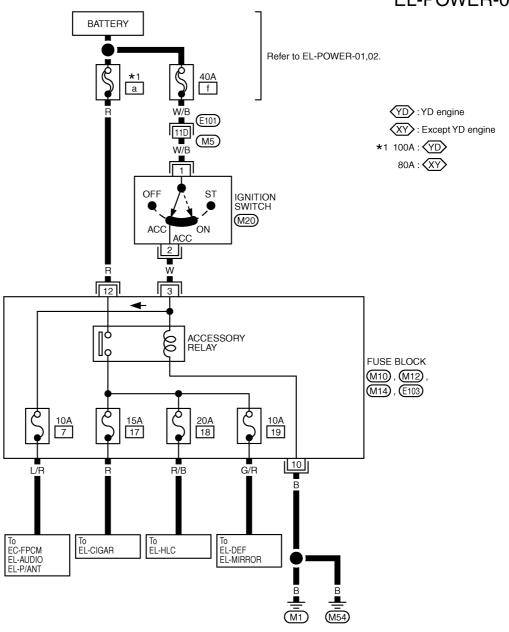


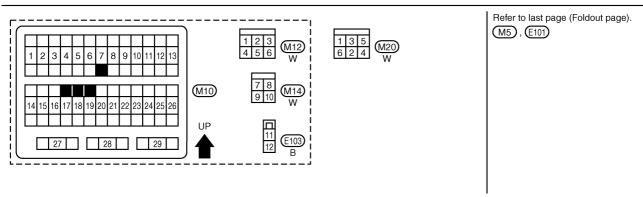


Wiring Diagram — POWER — (Cont'd)

ACCESSORY POWER SUPPLY — IGNITION SW. IN "ACC" OR "ON"

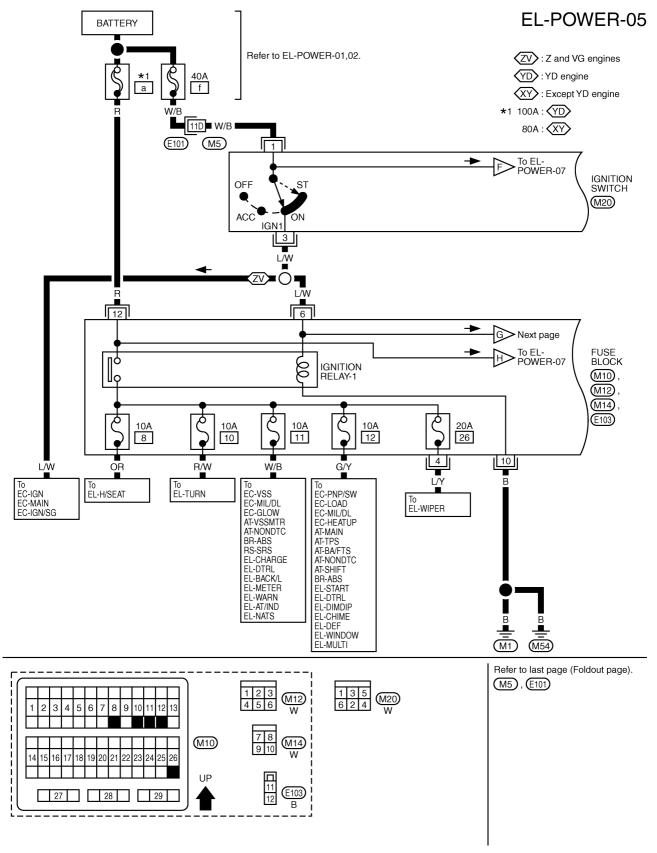






Wiring Diagram — POWER — (Cont'd)

IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START"

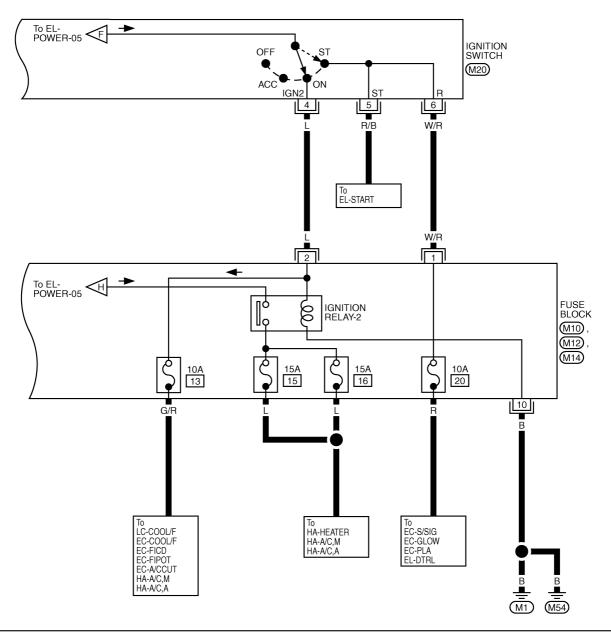


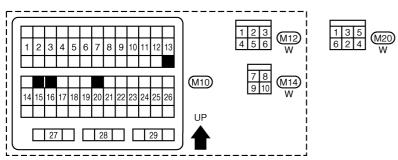
Wiring Diagram — POWER — (Cont'd)

EL-POWER-06 Z: Z engine BATTERY ZD : ZD engine Refer to EL-POWER-01. \$ W/B KU: KA engine for Europe EX : With ECM control engine except KA engine for Europe *1 W/L: KU W/R: EX *2 15A: Z 10A : (ZD) W/B (E101) (M5) *3 W/L: \(\overline{Z}\) BR/Y: ZD (M5) W/B CIRCUIT BREAKER-1 FUSE BLOCK Preceding G M10, M12), M14) POWER WINDOW RELAY 10A 21 15A 22 10A *****2 10A 25 23 24 8 10 G/W *3 R/L L/Y To EC-F/PUMP EC-FPCM EC-AIRREG To EC-INJECT EC-GLOW EC-EGRC/V EC-PLA EC-FCUT To EC-MAIN EC-IGN/SG EC-TP/SW To EC-CHOKE EC-FCUT EC-SWL/V To EL-WINDOW To RS-SRS EC-1P/SW EC-02S1B1 EC-02S2B1 EC-02H1B1 EC-02H2B1 EC-H02S EC-ECMRLY EC-AAC/V EL-NATS M1(M54) Refer to last page (Foldout page). M5), (E101) 6 9 10 11 M₁₀ 15 16 17 18 19 20 21 22 23 24 25 26 UP

Wiring Diagram — POWER — (Cont'd)

EL-POWER-07





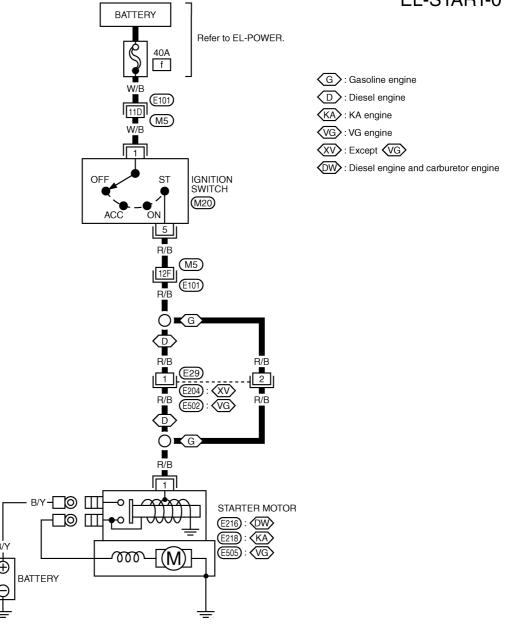
BATTERY

Service Data and Specifications (SDS)

	Europe		
Applied model	YD25		
	Standard		
Туре	110D26R		
Capacity V-AH	12-64		

Wiring Diagram — START —/M/T Models

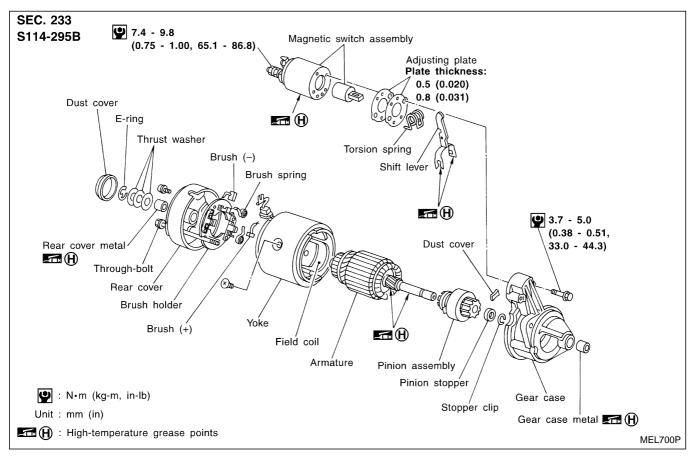
EL-START-01

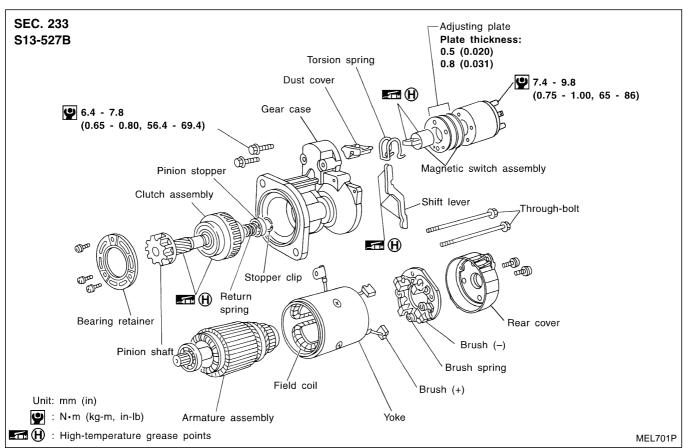




Refer to last page (Foldout page). (M5), (E101)

Construction

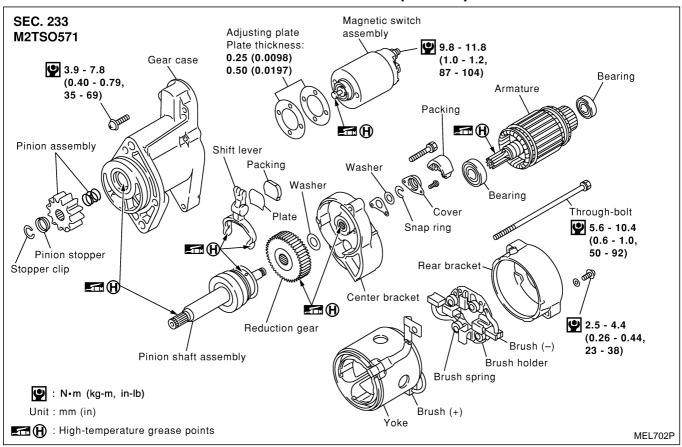




EL-3015

STARTING SYSTEM

Construction (Cont'd)



STARTING SYSTEM

Service Data and Specifications (SDS)

STARTER

Туре		M2TS0571		M3T29482D	S114-348A	S114-295B	S13-527B
		MITSUBISHI		HITACHI			
		Reduction		Non-reduction			Reduction
Applied model		2WD 4WD		2WD			4WD
		YD25		Z24			ZD30
		Standard		Standard Option		Standard	
System voltage	V			1	2		
No-load	No-load						
	Terminal voltage V	11	.0	11.5			11.0
	Current A	Less than 145		Less than 60			Less than 160*
	Revolution rpm	More that	an 3,200	More than 6,500	More than 7,000	More than 6,000	More than 3,300
Minimum diameter of commutator mm (in)		31.4 (1.236)			39.0 (1.535)		35.5 (1.398)
Minimum length of brush mm (in)		11.0 (0.433)	11.5 (0.453) 12.0 (0.472) 11.0		(0.433)	
Brush spring tension N (kg, lb)		26.7 - 36.1 (2.7 - 3.7, 6.0 - 8.2)		13.7 - 25.5 (1.4 - 2.6, 3.1 - 5.7)	17.7 - 21.6 (1.8 - 2.2, 4.0 - 4.9)	17.6 - 21.6 (1.8 - 2.2, 4.0 - 4.9)	28.4 - 34.3 (2.9 - 3.5, 6.4 - 7.7)
Clearance between b armature shaft	earing metal and mm (in)	Less than 0.2 (0.008)				_	
Clearance " ℓ " between pinion front edge and pinion stopper mm (in)		_		0.5 - 2.0 0.3 - 2.5 (0.020 - 0.079) (0.012 - 0.098)		_	
Movement " ℓ " in height of pinion assembly mm (in)		0.5 - 2.0 (0.020 - 0.079)		_			0.3 - 2.0 (0.01 - 0.079)

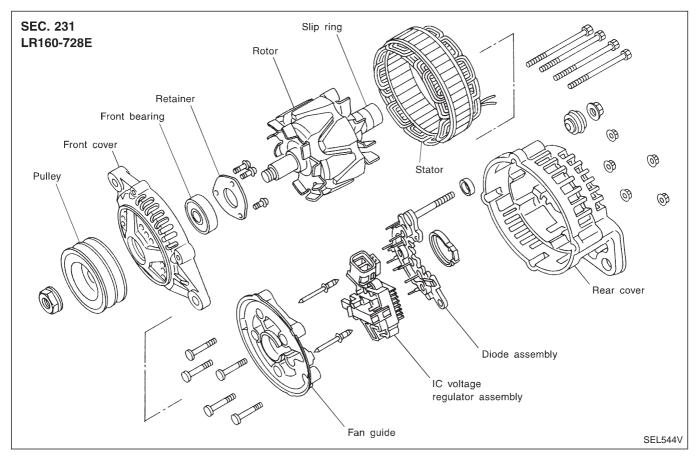
^{*:} Includes magnet switch current.

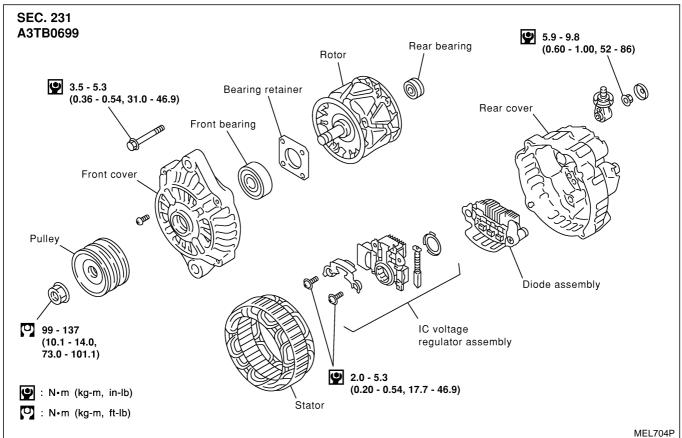
Wiring Diagram — CHARGE —/Diesel Engine **EL-CHARGE-01** IGNITION SWITCH ON or START BATTERY 11 а Refer to EL-POWER. VG : VG engine YD: YD engine 10A 31 XY : Except YD engine TQ : TD and QD engines W/B M7 YZ: YD and ZD engines (N2) XZ: Except YD and ZD engines W/B *1 TM: With tachometer OT: Without tachometer COMBINATION 17 : **(TM)** METER (CHARGE WARNING LAMP) 22 : **(OT)** 62 : **(TM)** N4), N6): (TM) 61 : **(OT)** N10, N11: OT *4 100A : YD N2 80A : XY M7 , E70 (E73) (M5) (A13) (A3) (A14) E101 **■**VG Ō Y/B **E68** (E70) E73 (A3) *3 2 0 Y/B 3 ALTERNATOR (A6), (A7), (A8) (A1) Refer to last page (Foldout page). M5), (E101) 1 2 3 4 5 6 N4 (N6) (N₁₀) 1 (A6)

Wiring Diagram — CHARGE — (KA engine) IGNITION SWITCH ON or START **EL-CHARGE-02** BATTERY Refer to EL-POWER. 10A 80A a 11 Refer to EL-POWER. FUSIBLE LINK AND FUSE BOX W/B W/B (M7) E202 10A 31 (N2)*1 COMBINATION METER (CHARGE WARNING LAMP) E205 N4), N6): (TM) (N10), (N11): (OT) (M7) (M5) (E101) (E30) 0 (E203) **ALTERNATOR** (E210), (E211), (E212) ©2 B B B B B TM: With tachometer OT: Without tachometer (E29) 17 : **(**TM) 22 : **OT ★**2 62 : **(TM)** 61 : **(OT) E**6 E39 Refer to last page (Foldout page). M5), (E101) 1 2 3 4 5 6 (N4) (N6) N₁₀ **©** 2 **E**211 0 1 E210

CHARGING SYSTEM

Construction

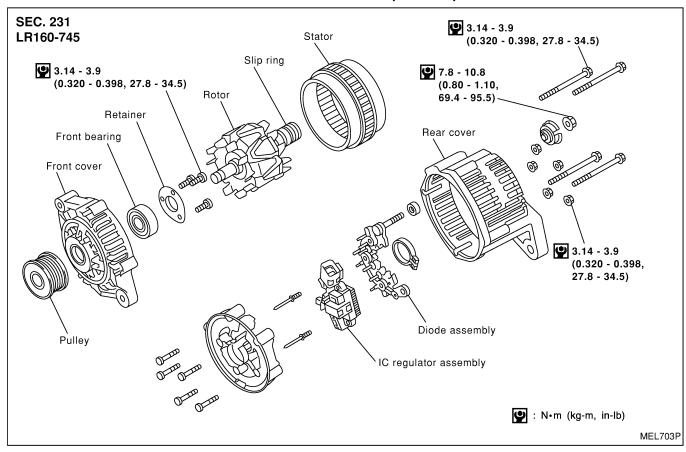


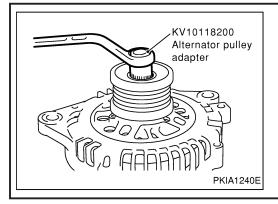


EL-3020

CHARGING SYSTEM

Construction (Cont'd)





Disassembly (For LR160-745)

• When removing alternator pulley, use special service tool (KV10118200).

CHARGING SYSTEM

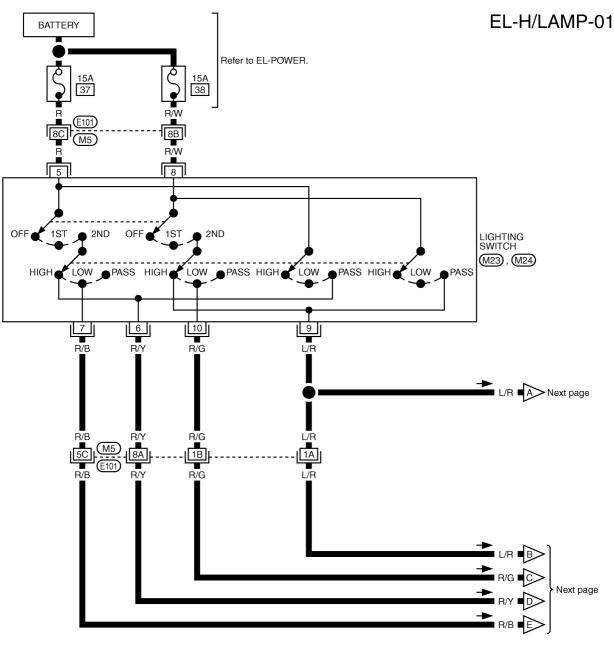
Service Data and Specifications (SDS)

ALTERNATOR

		I	I				
Type	A5TA5271	A7TA8471	A5TA5372	A3TB0699	LR160-745	LR160-728E	
Турс		MITSU	MITSUBISHI			HITACHI	
Applied model	KA24DE	Z24		\/Po5	ZD30	TD07_0D00	
Applied model	KAZ4DE	Standard	Option*	YD25	2030	TD27, QD32	
Nominal rating V-A	12-70	12-35	12-70	12-90	12-60		
Ground polarity	Negative						
Minimum revolution under no- load (When 13.5V is applied) rpm	Less than 1,300			Less than 1,000			
Hot output current (When 13.5V is applied) A/rpm	More than 14/1,300 More than 54/2,500	More than 27/2,500	More than 18/1,300 More than 51/2,500	More than 29/1,300 More than 76/2,500 More than 88/5,000	More than 17/1,300 More than 48/2,500 More than 57/5,000		
Regulated output voltage V	14.1 - 14.7						
Minimum length of brush mm (in)	5.0 (0.20)			6.0 (0.236)			
Brush spring pressure N (g, oz)	4.8 - 6.0 (487 - 612, 17.25 - 21.59)			1.0 - 3.43 (102 - 350, 3.60 - 12.34)			
Slip ring minimum outer diameter mm (in)	22.1 (0.870)			26.0 (1.024)			
Rotor (Field coil) resistance Ω	2.5 - 2.9	2.7 - 3.2	2.5 - 2.9	2.1 - 2.5	2.6	2.58	

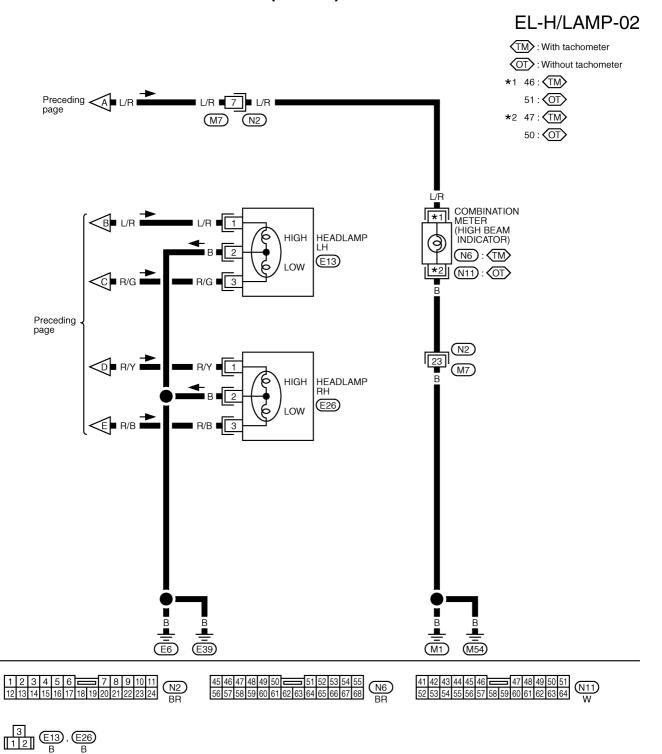
^{*:} Models with power steering and air conditioner

Wiring Diagram — H/LAMP —/LHD Models

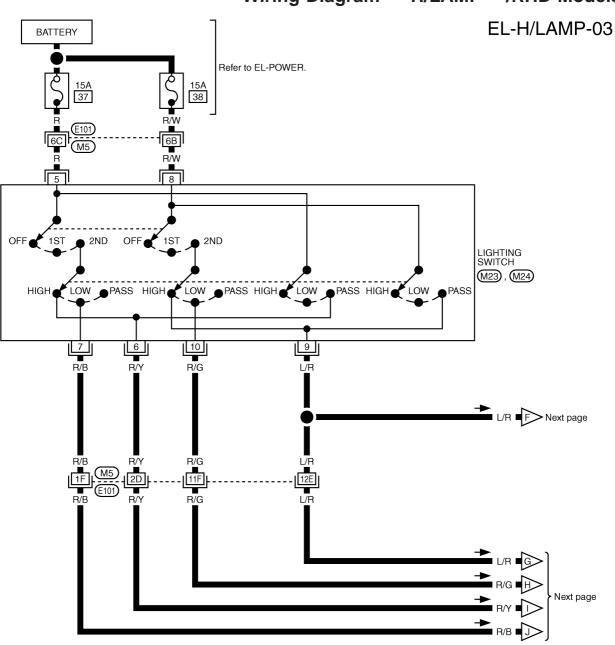




Wiring Diagram — H/LAMP —/LHD Models (Cont'd)

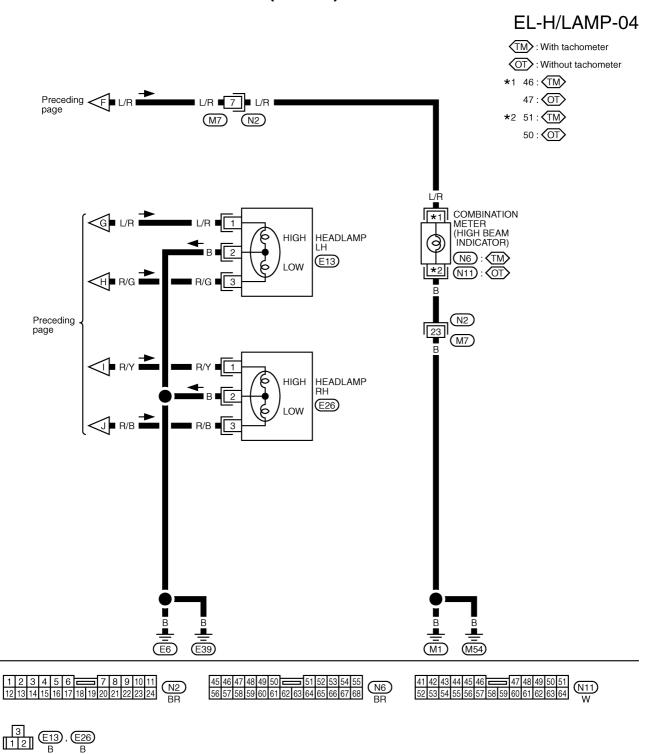


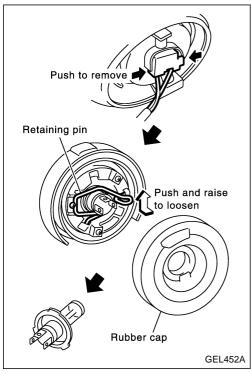
Wiring Diagram — H/LAMP —/RHD Models

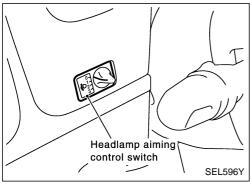




Wiring Diagram — H/LAMP —/RHD Models (Cont'd)







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. Pull off the rubber cap.
- 4. Push and raise retaining pin to loosen it.
- 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.

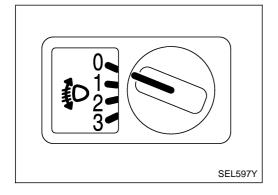
Aiming Adjustment

When performing headlamp aiming adjustment, use an aiming machine, aiming wall screen or headlamp tester. Aimers should be in good repair, calibrated and operated in accordance with respective operation manuals.

If any aimer is not available, aiming adjustment can be done as follows:

For details, refer to the regulations in your own country.

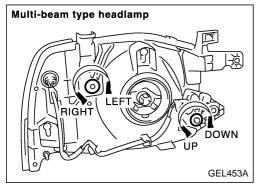
- a. Keep all tires inflated to correct pressures.
- b. Place vehicle and tester on one and same flat surface.
- c. See that there is no-load in vehicle (coolant, engine oil filled up to correct level and full fuel tank) other than the driver (or equivalent weight placed in driver's position).

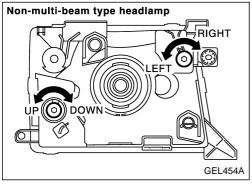


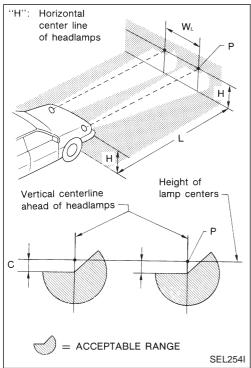
CAUTION:

Be sure aiming switch is set to "0" when performing aiming adjustment on vehicles equipped with headlamp aiming control.

HEADLAMP — Conventional Type —







Low Beam

- 1. Turn headlamp low beam on.
- 2. Use adjusting screws to perform aiming adjustment.
- First tighten the adjusting screw all the way and then make adjustment by loosening the screw.

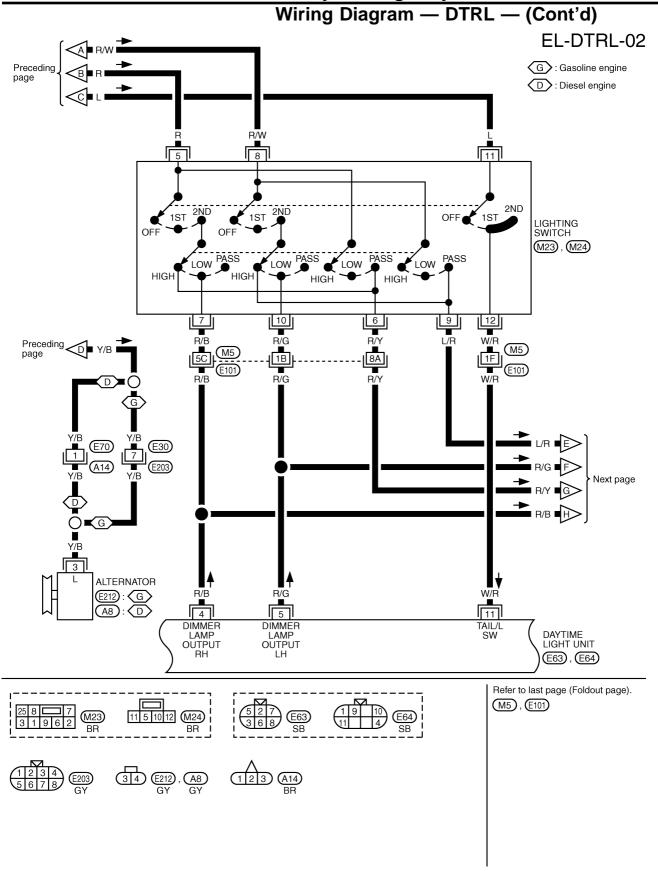
- Adjust headlamps so that main axis of light is parallel to center line of body and is aligned with point P shown in illustration.
- Figure to the left shows headlamp aiming pattern for driving on right side of road; for driving on left side of road, aiming pattern is reversed.
- Dotted lines in illustration show center of headlamp.

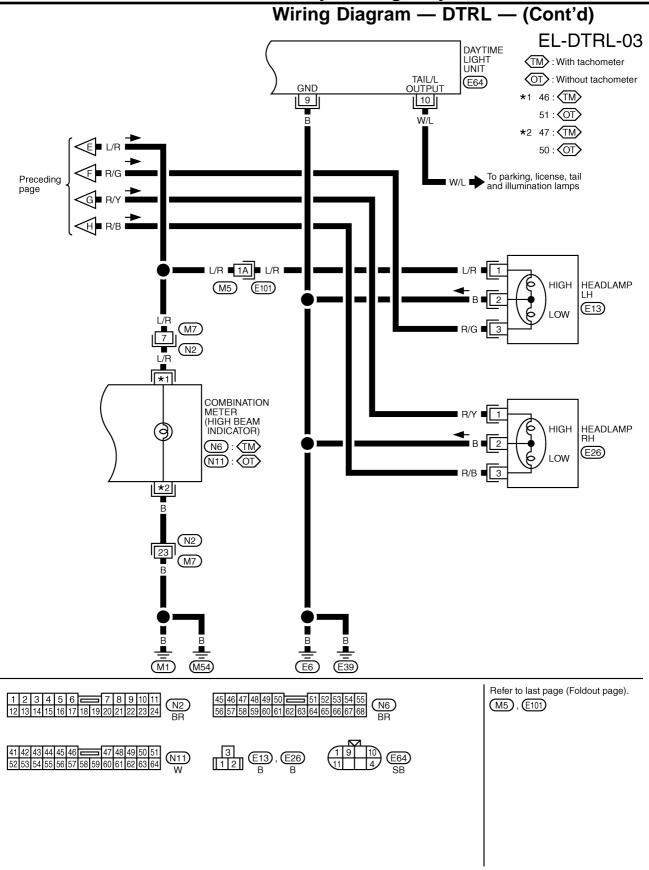
"H": Horizontal center line of headlamps

"W_L": Distance between each headlamp center

"L": 5,000 mm (196.85 in)
"C": 65 mm (2.56 in)

Wiring Diagram — DTRL — IGNITION SWITCH START IGNITION SWITCH ON or START **EL-DTRL-01** BATTERY Refer to EL-POWER. 10A 12 11 ■ R/W ■ 8B ■ R/W ■ R/W ■ A E101 M5 8C page W/B M7 N2 N2 W/B *1 TM: With tachometer COMBINATION METER (CHARGE WARNING LAMP) OT : Without tachometer *1 17: TM 22 : OT N4, N6 *2 62: TM $\overline{\mathbb{T}}$ 61 : OT N10, N11 (M) Y/B 8 Y/B N2 M7) G/Y 5J Y/B 12A (M5) 11A (E101) G/Y Y/B ■D Next page Y/B G/Y R/W 1 7 3 6 8 LH FUSE DAYTIME LIGHT UNIT E63, E64 Refer to last page (Foldout page). (M5), (E101) 1 2 3 4 5 6 7 8 9 10 11 N4 W 12 13 14 15 16 17 18 19 20 21 22 23 24 5 2 7 3 6 8 N10 BR





HEADLAMP — Daytime Light System —

Bulb Replacement

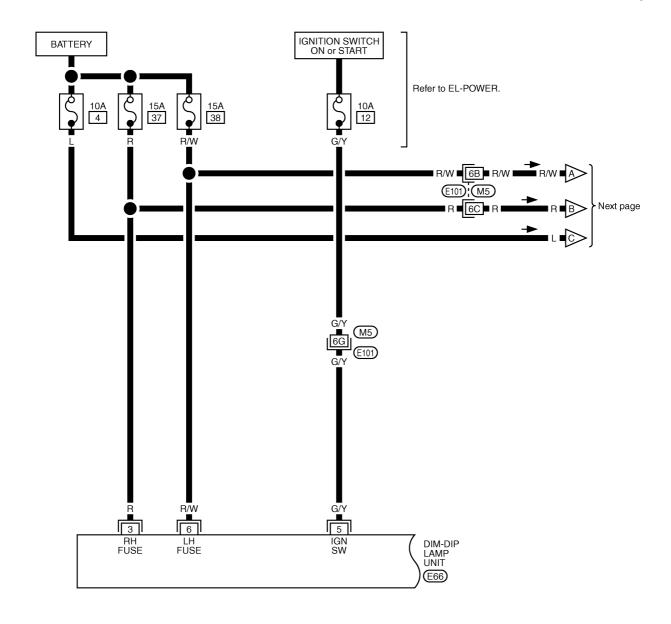
For bulb replacement, refer to "HEADLAMP — Conventional Type —" EL-3027.

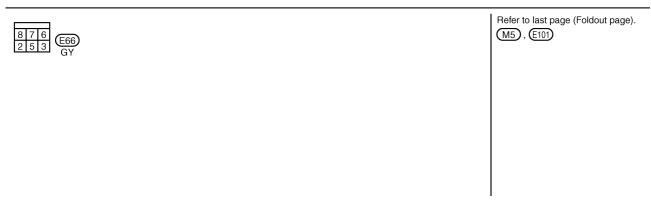
Aiming Adjustment

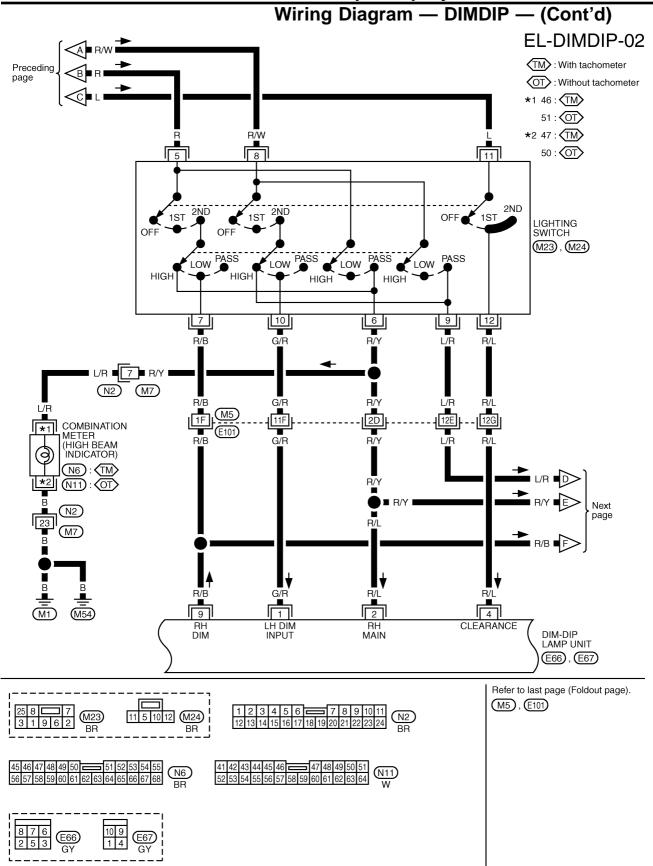
For aiming adjustment, refer to "HEADLAMP — Conventional Type —" EL-3027.

Wiring Diagram — DIMDIP —

EL-DIMDIP-01

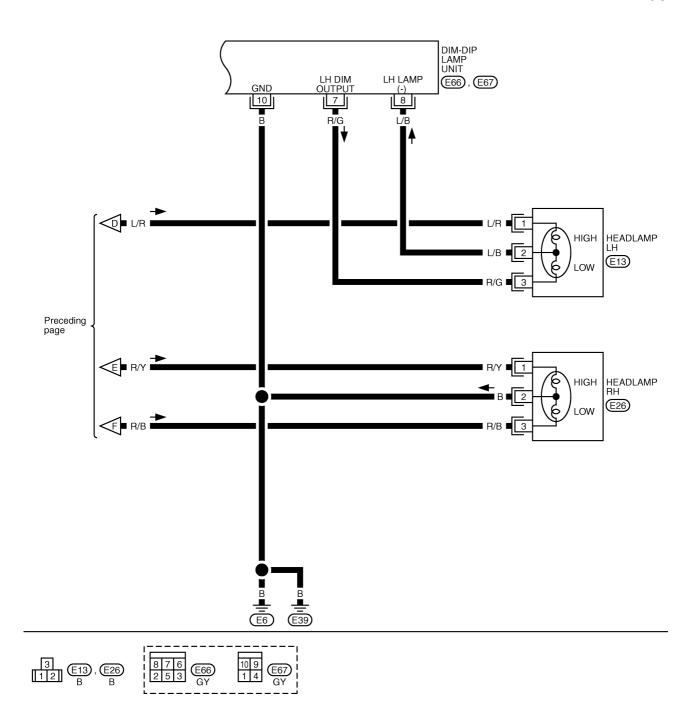






Wiring Diagram — DIMDIP — (Cont'd)

EL-DIMDIP-03



HEADLAMP — Dim-dip Lamp System —

Bulb Replacement

For bulb replacement, refer to EL-3027.

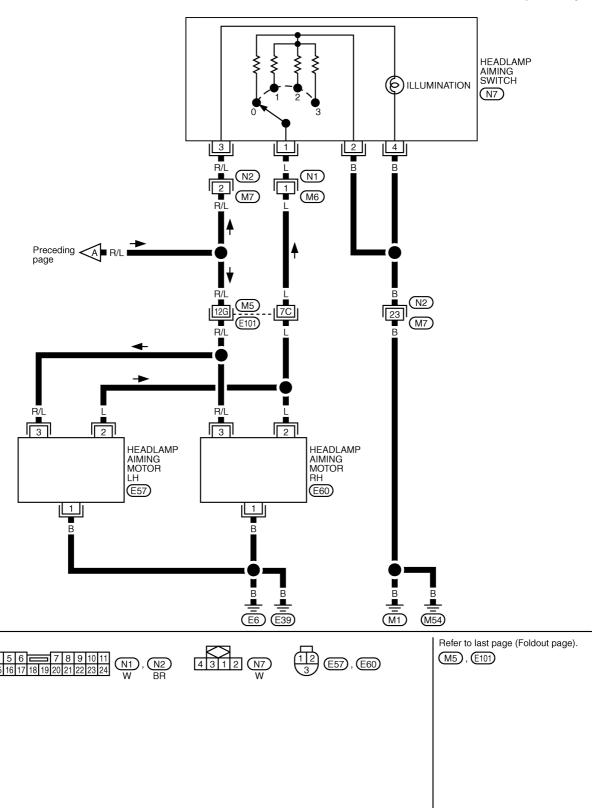
Aiming Adjustment

For aiming adjustment, refer to EL-3027.

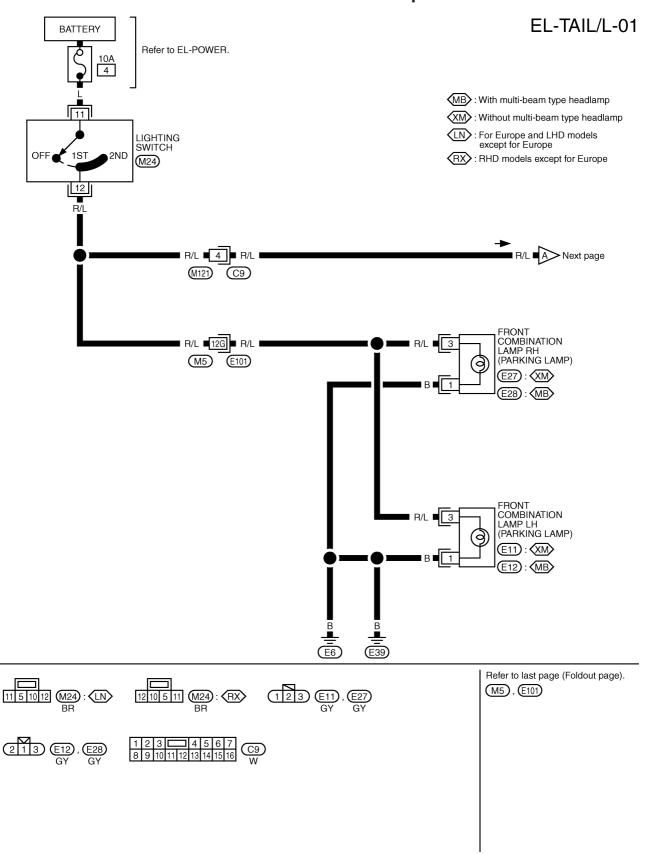
Wiring Diagram — H/AIM — EL-H/AIM-01 BATTERY ○ ■NE Refer to EL-POWER. 10A 27 10A 4 EU : For Europe NE: Except for Europe DL: With daytime light system ED : Without daytime light system for Europe (M5) *1 W/R: (DL) Ī W/L: ED LIGHTING SWITCH LIGHTING SWITCH 1ST 1ST M24) : (EU) M24): (NE) 12 W/R R/L ■ R/L ■ A Next page V_V, _ |<u>2E</u>| 1F M5 E101 W/L DL 11 10 $\lceil 1 \rceil$ TAIL/L SW TAIL/L OUTPUT DAYTIME LIGHT UNIT (E64) Refer to last page (Foldout page). M5, E101 M24 BR

Wiring Diagram — H/AIM — (Cont'd)

EL-H/AIM-02

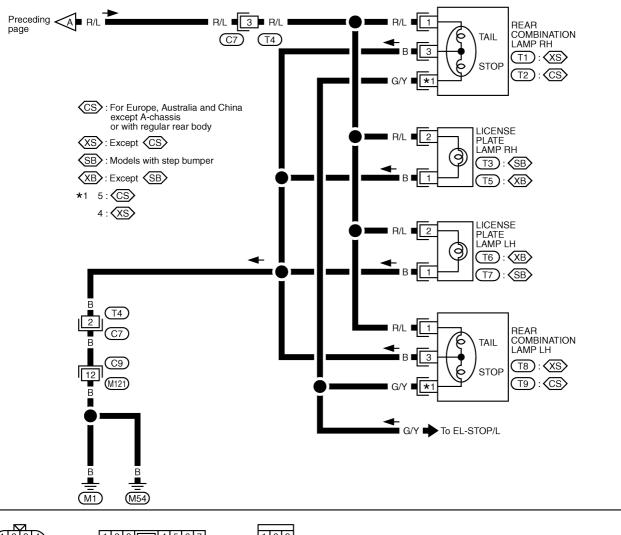


Wiring Diagram — TAIL/L —/Except LHD Models for Europe



Wiring Diagram — TAIL/L —/Except LHD Models for Europe (Cont'd)

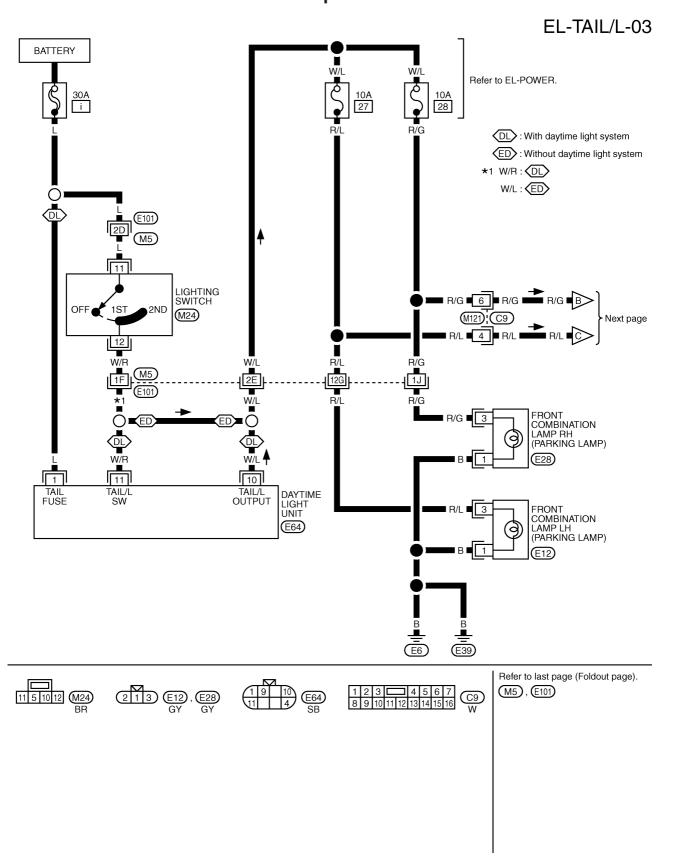
EL-TAIL/L-02







Wiring Diagram — TAIL/L —/LHD Models for Europe



PARKING, LICENSE AND TAIL LAMPS

Wiring Diagram — TAIL/L —/LHD Models for Europe (Cont'd)

EL-TAIL/L-04



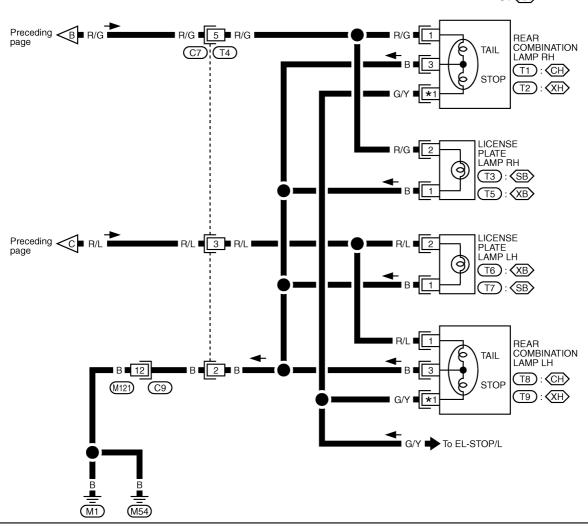
XH : Except A-chassis models

SB : Models with step bumper

XB : Except SB

*1 4: CH

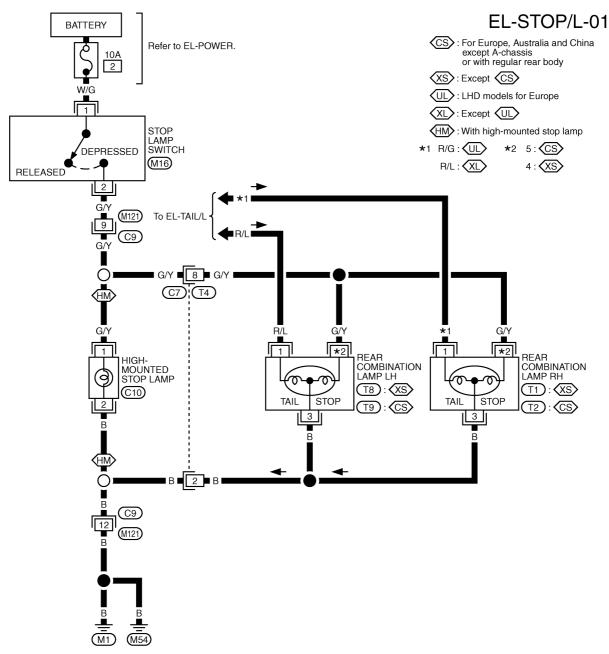
5 : **(**XH**)**

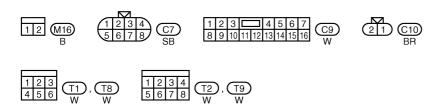






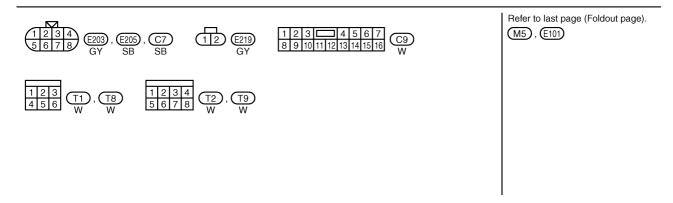
Wiring Diagram — STOP/L —





Wiring Diagram — BACK/L —/M/T Models

EL-BACK/L-01 IGNITION SWITCH ON or START Refer to EL-POWER. 11 (LD): LHD models with diesel engine (LG): LHD models with gasoline engine (M5) W/B 5 W/B R: RHD models G: Gasoline engine : G, E33 : D D: Diesel engine : G, E205 : D (E203) CS : For Europe, Australia and China except A-chassis or with regular rear body XS: Except CS BACK-UP LAMP SWITCH *1 11F: LG **OTHERS E219** 4G: (LD) 5C: (R) *2 11E: \(\bar{LG}\) (E203): (G), (E205): (D) 4H: (LD) (E30): (G), (E33): (D) 4C: (R) (E101) 6 : CS REAR COMBINATION LAMP RH (BACK-UP LAMP) (M5)(M121) T1: XS ■ R/B ■ 1 ■ R/B ■ ● ■ R/B ■ *3 T4 **C7** REAR COMBINATION LAMP LH (BACK-UP LAMP) T8: XS (T9) 3 ■ B **■** 2 **■** B ■ (T4) (C7) $\overline{(M1)}$



Wiring Diagram — R/FOG —/LHD Models EL-R/FOG-01 BATTERY Refer to EL-POWER. CH : A-chassis models 10A 3 XH : Except A-chassis models R/B TM>: With tachometer 3 OT: Without tachometer REAR *1 6: TM> FOG LAMP RELAY 십 42 : **(**OT**)** *2 56: (TM) COMBINATION SWITCH M60 5 LIGHTING 60 : OT **SWITCH** (M23), (M24) G/R 2ND M63OF 1ST G/R 8 (M6) REAR FOG LAMP SWITCH (N1)**C9** ON **C**7 <u>T4</u> OFF G/R 7 REAR COMBINATION METER COMBINATION LAMP LH (REAR FOG) REAR FOG LAMP LH (REAR FOG LAMP INDICATOR) T12: CH> T9): (XH) N4 , N6 : (TM) В (N11) : (OT) (T4) $\sqrt{N2}$ (M7)(M121) В M1(M54) Refer to last page (Foldout page). (M5), (E101) 11 5 10 12 M24 (M63) 3 1 9 6 2 N2 BR N4 W <u>N6</u>) N1 W 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Wiring Diagram — R/FOG —/RHD Models EL-R/FOG-02 BATTERY Refer to EL-POWER. CH : A-chassis models 10A 3 R/B XH : Except A-chassis models TM>: With tachometer 3 OT: Without tachometer REAR *1 6: \(TM\) FOG LAMP RELAY 십 42 : **(OT)** COMBINATION SWITCH M60 *2 56: TM 5 LIGHTING 60 : OT **SWITCH** (M23), (M24) G/R 2ND M63OF 1ST G/R 8 (M6) REAR FOG LAMP SWITCH (N1)**C9** ON **C**7 <u>T4</u> OFF G/R 7 REAR COMBINATION METER COMBINATION LAMP RH (REAR FOG) REAR FOG LAMP RH (REAR FOG LAMP INDICATOR) T10: (CH) T2): (XH) N4), N6): (TM) В (N11) : (OT) (T4) $\sqrt{N2}$ (M7)(M121) В M1(M54) Refer to last page (Foldout page). (M5), (E101) 11 5 10 12 M24 (M63) 3 1 9 6 2 N2 BR N4 W <u>N6</u>) N1 W 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

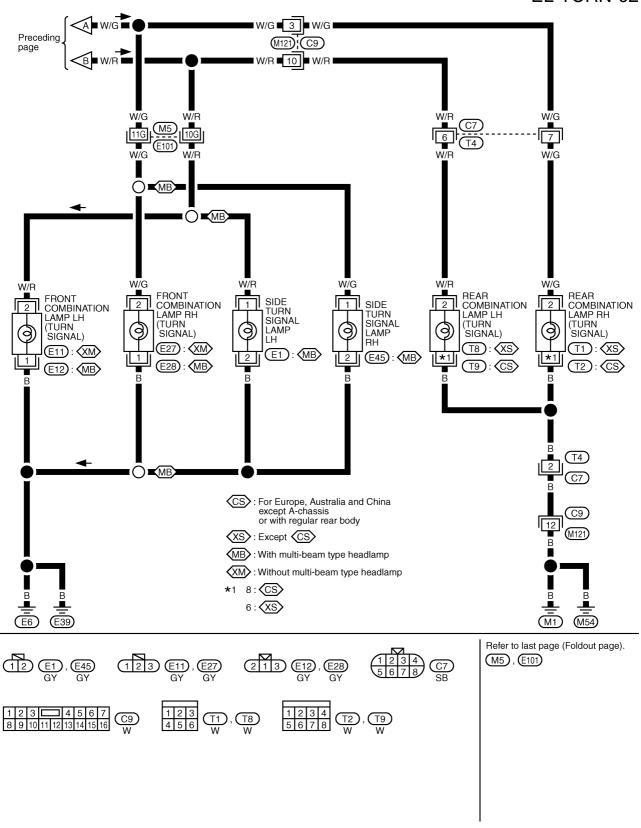
TURN SIGNAL AND HAZARD WARNING LAMPS

Wiring Diagram — TURN — TM: With tachometer IGNITION SWITCH ON or START **EL-TURN-01** BATTERY OT: Without tachometer Refer to EL-POWER. MR : With multi-remote control system 5 LN: For Europe and LHD models except for Europe (RX): RHD models except for Europe ■ R/L ➡ To EL-**★**3 56 : ⟨TM⟩ *1 11:⟨TM⟩ *2 48: TM 38 : OT 64 : OT 60 : OT 3 OFF ON ON HAZARD SWITCH ILLUMI-NATION OFF ON (M41)5 4 $\lfloor 6 \rfloor$ 8 Next TURN w<u>√</u>R w<u>√</u>G SIGNAL LAMP 19 20 M7 SWITCH N2 M23W/R COMBINATION *1 METER N4, N6 (a) TURN TURN RH (TM) N10, N11 : **(OT)** MR 3 W/G COMBINATION (N2) FLASHER UNIT 3 8 23 (M7) FLASHER FLASHER MULTI-REMOTE (M15)GROUND CONTROL UNIT 2 (M58) M1 M15 B M23 : (LN) M23 : (RX) N₁₀

TURN SIGNAL AND HAZARD WARNING LAMPS

Wiring Diagram — TURN — (Cont'd)

EL-TURN-02

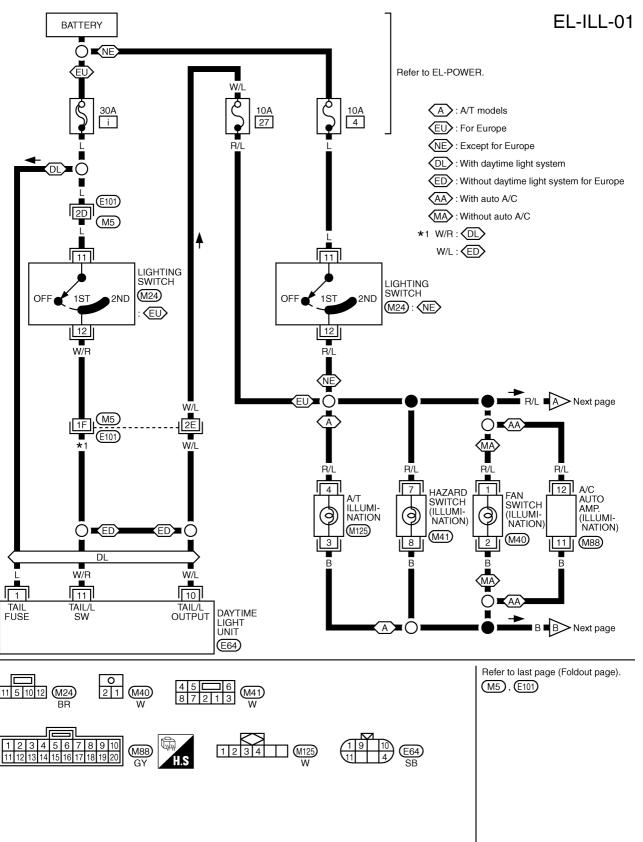


TURN SIGNAL AND HAZARD WARNING LAMPS

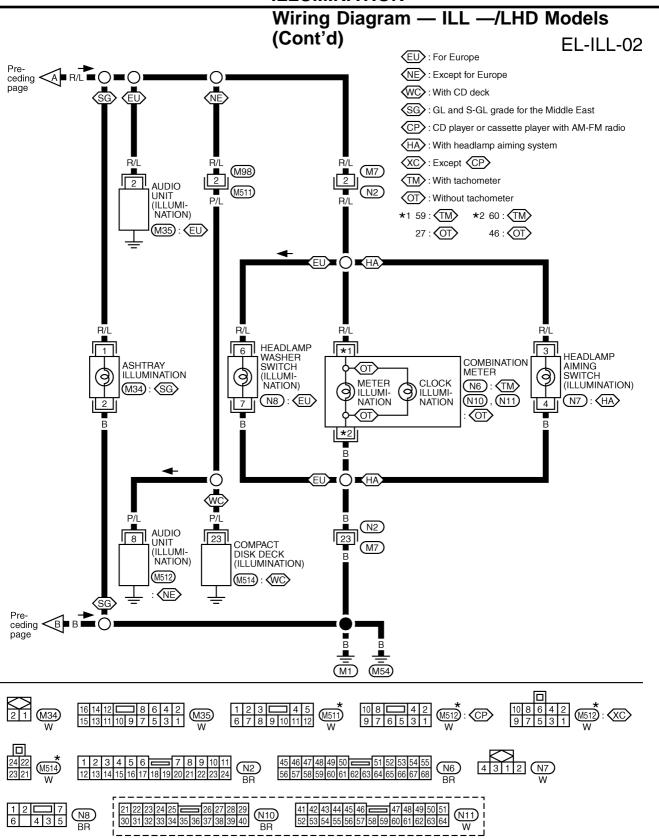
Trouble Diagnoses

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 operate.	 1. 10A fuse 2. Hazard switch 3. Turn signal switch 4. Open in turn signal switch circuit 	 Check 10A fuse (No. 10, located in fuse block). Turn ignition switch ON and verify battery positive voltage is present at terminal (2) (R/W) of hazard switch. Check hazard switch. Check turn signal switch. Check 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. 5, located in fuse block). Verify battery positive voltage is present at terminal (3) (R/Y) of hazard switch. Check hazard switch. Check G wire between combination flasher unit and hazard switch for open circuit.
Front or side turn signal lamp LH or RH does not operate.	Bulb Grounds	 Check bulb. Check grounds E6 and E39.
Rear turn signal lamp LH or RH does not operate.	Bulb Grounds M1 and M54	 Check bulb. Check grounds M1 and M54.
LH and RH turn indicators do not operate.	1. Ground	1. Check grounds M1 and M54.
LH or RH turn indicator does not operate.	1. Bulb	Check bulb in combination meter.

Wiring Diagram — ILL —/LHD Models

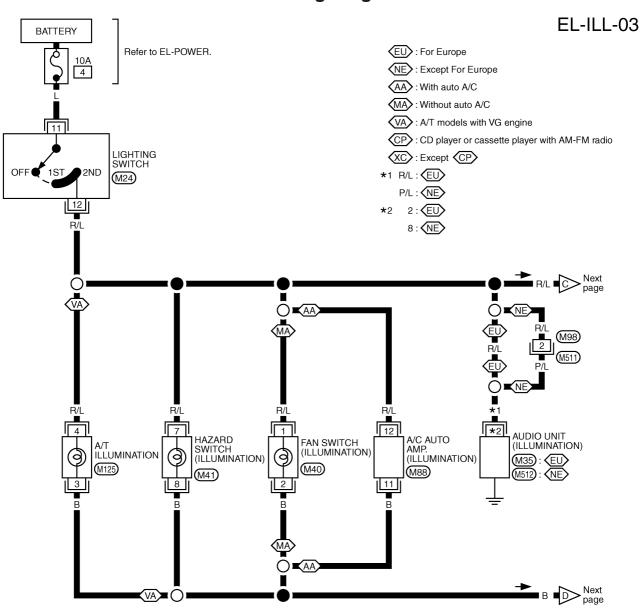


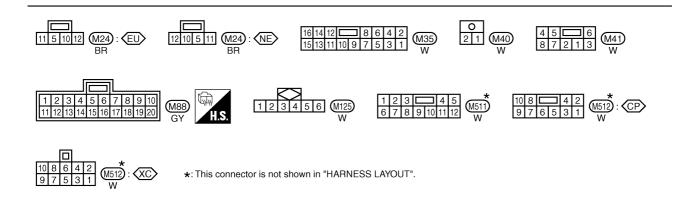
ILLUMINATION



*: This connector is not shown in "HARNESS LAYOUT".

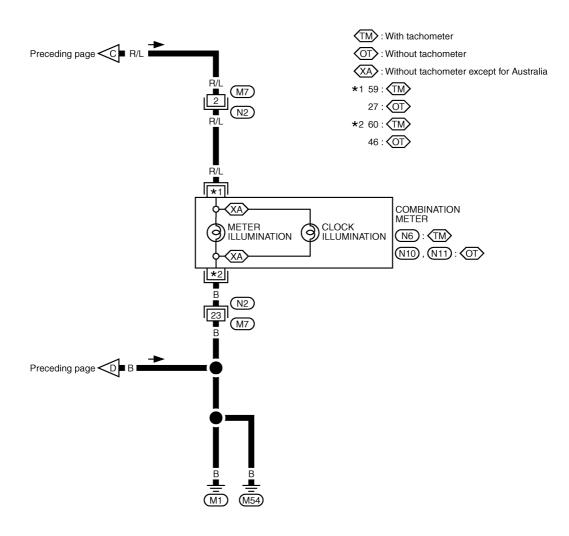
Wiring Diagram — ILL —/RHD Models

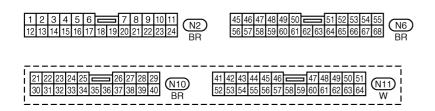




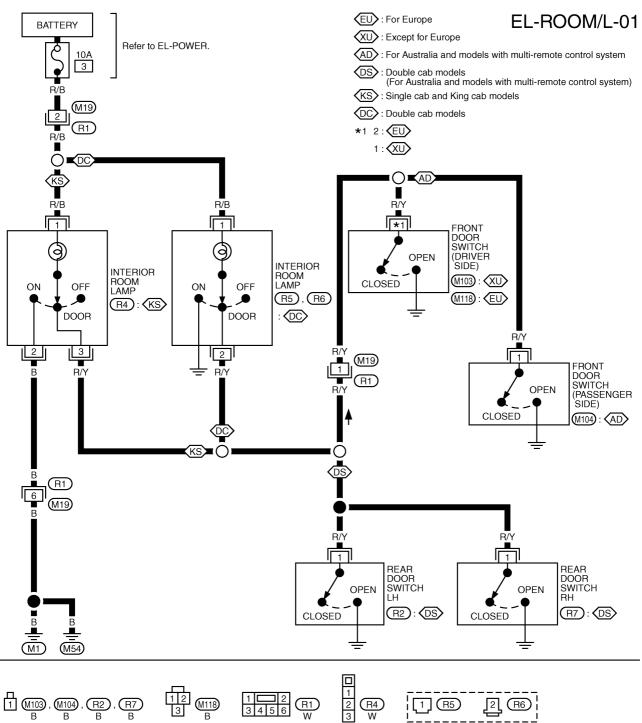
ILLUMINATION

Wiring Diagram — ILL —/RHD Models (Cont'd) EL-ILL-04



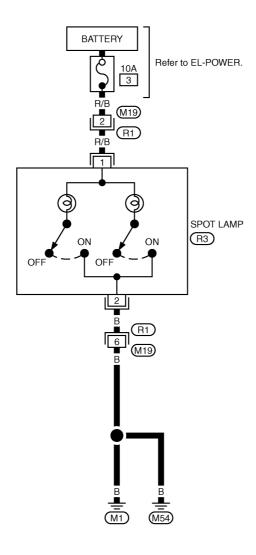


Wiring Diagram — ROOM/L —



Wiring Diagram — INT/L —

EL-INT/L-01





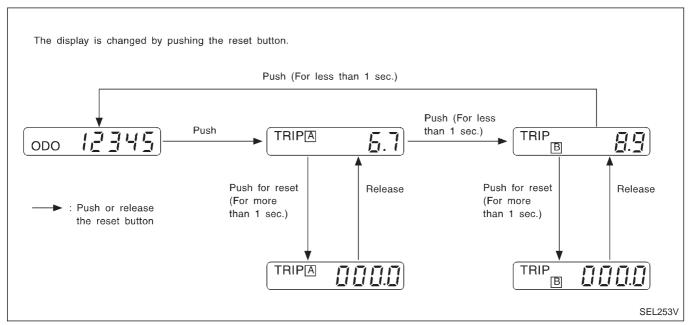


System Description

UNIFIED CONTROL METER

- Speedometer, odo/trip meter, tachometer, fuel gauge and water temperature gauge are controlled totally by control unit.
- Digital meter is adopted for odo/trip meter.*
 *The record of the odo meter is kept even if the battery cable is disconnected. The record of the trip meter is erased when the battery cable is disconnected.
- Odo/trip meter segment can be checked in diagnosis mode.
- Meter/gauge can be checked in diagnosis mode.

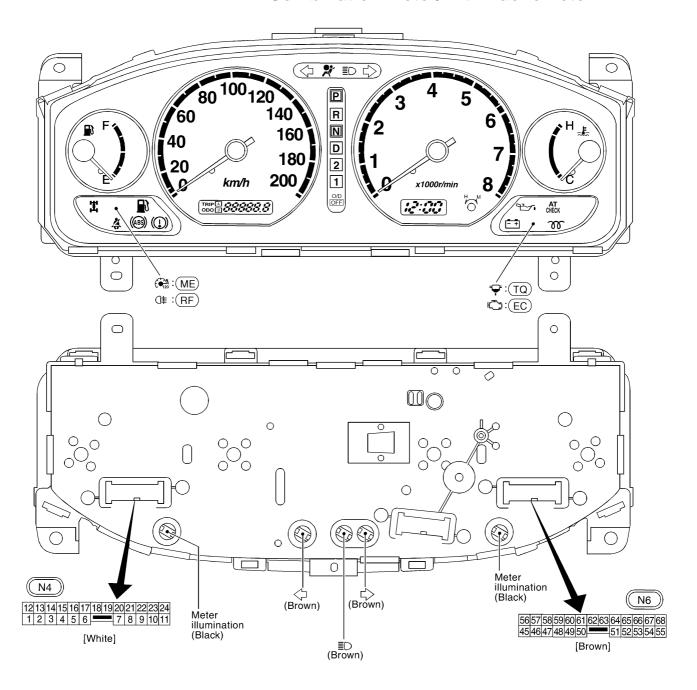
HOW TO CHANGE THE DISPLAY FOR ODO/TRIP METER



Note:

Turn ignition switch to the "ON" position to operate odo/trip meter.

Combination Meter/With Tachometer



Bulb socket color	Bulb wattage	
Brown	1.4W	
Black	3.0W	

(): Bulb socket color

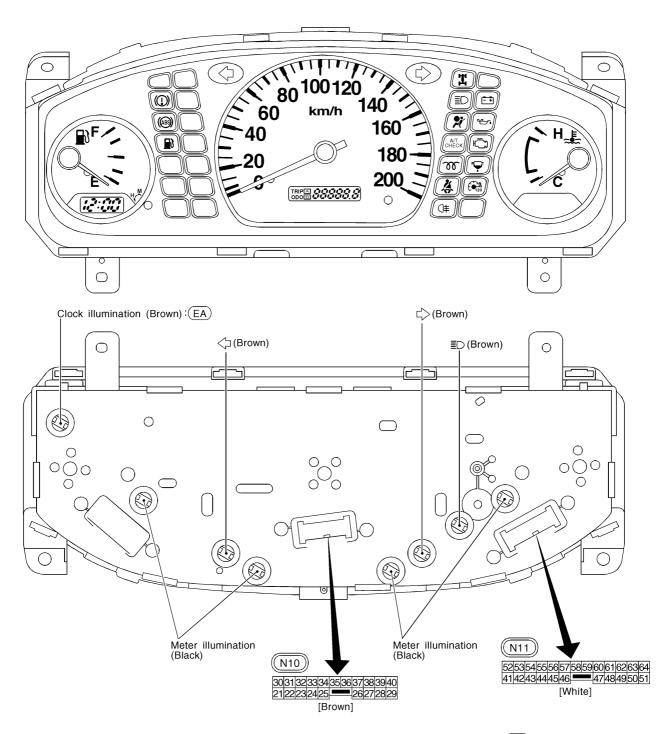
ME : For the Middle East

RF : With rear fog lamp

TQ : TD and QD engines

EC : With ECM control engine

Combination Meter/Without Tachometer



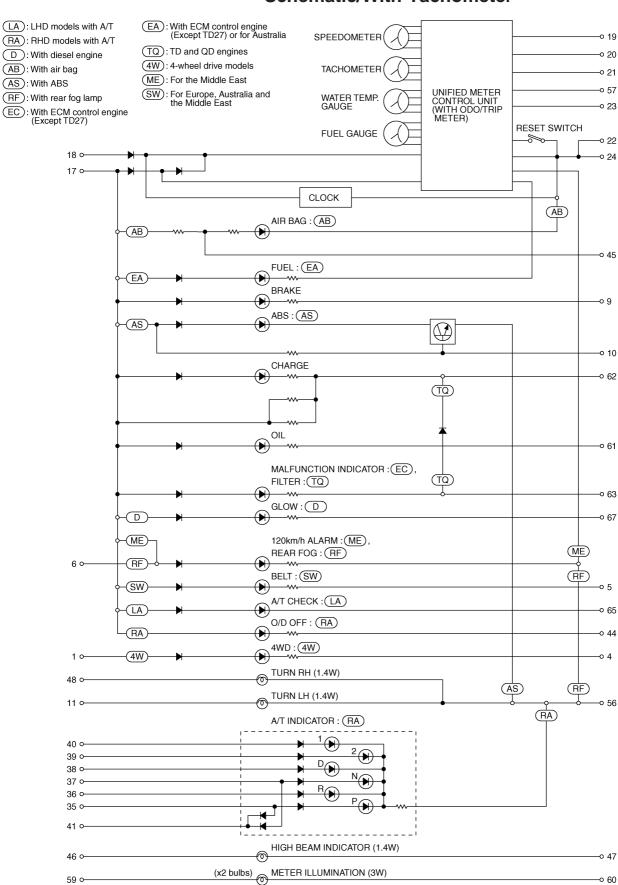
(EA) : Except for Australia

Bulb socket color	Bulb wattage	
Brown	1.4W	
Black	3.0W	

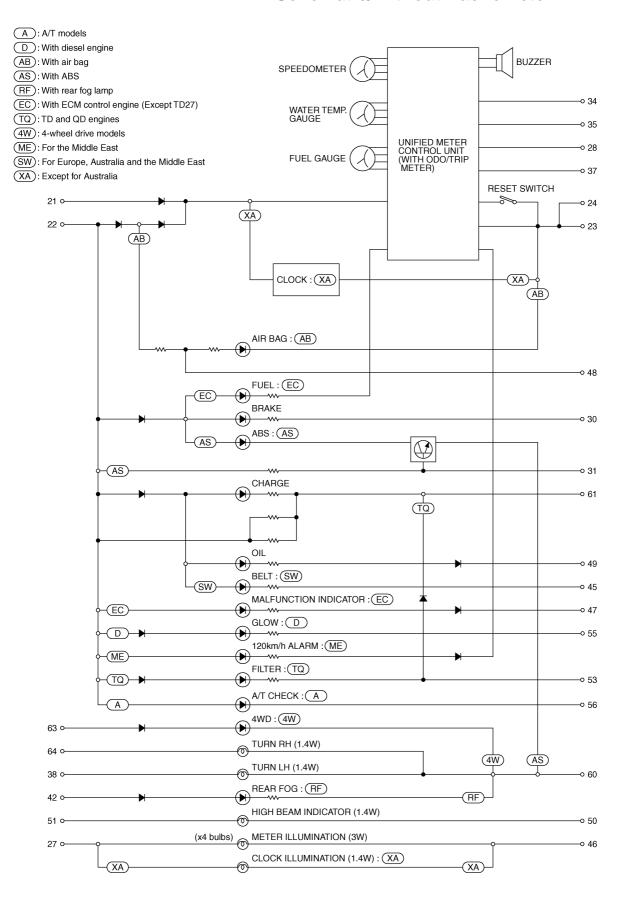
(): Bulb socket color

METER AND GAUGES

Schematic/With Tachometer



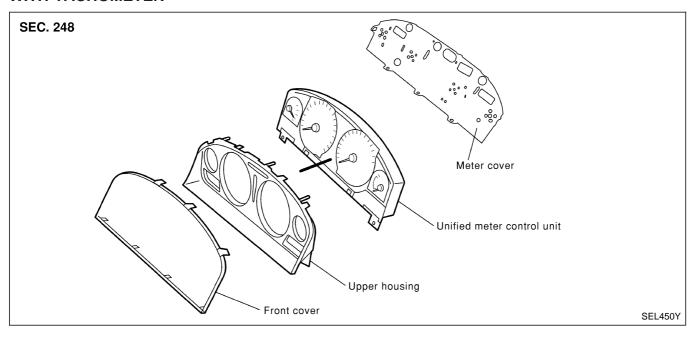
Schematic/Without Tachometer



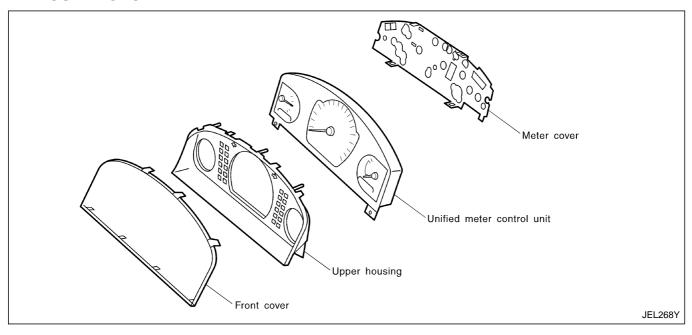
METER AND GAUGES

Construction

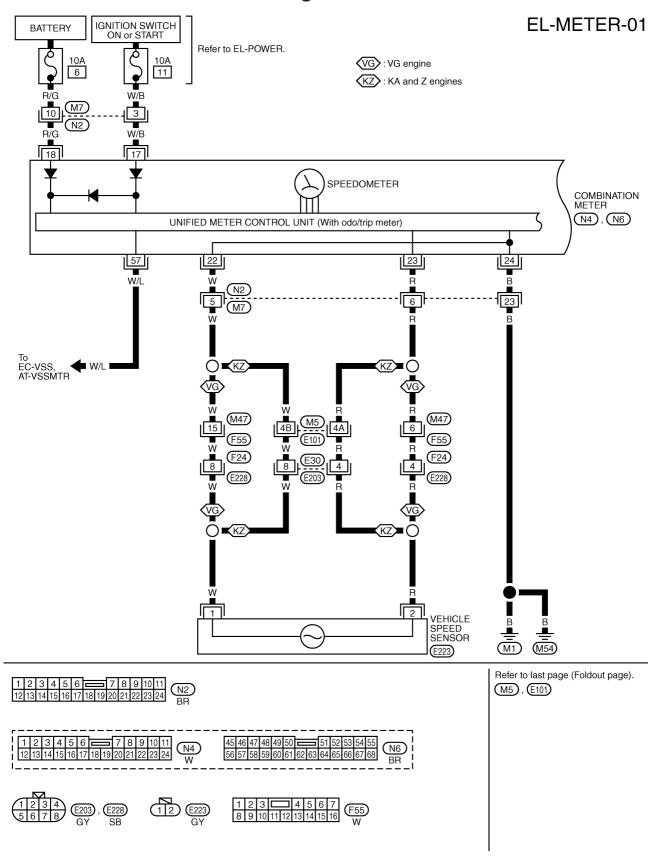
WITH TACHOMETER



WITHOUT TACHOMETER

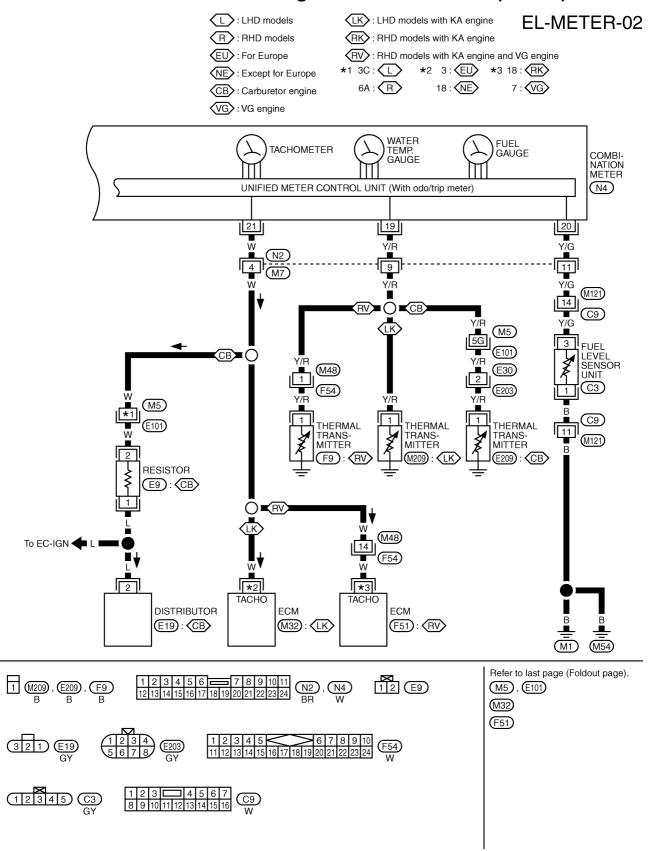


Wiring Diagram — METER —/Gasoline Engine with Tachometer

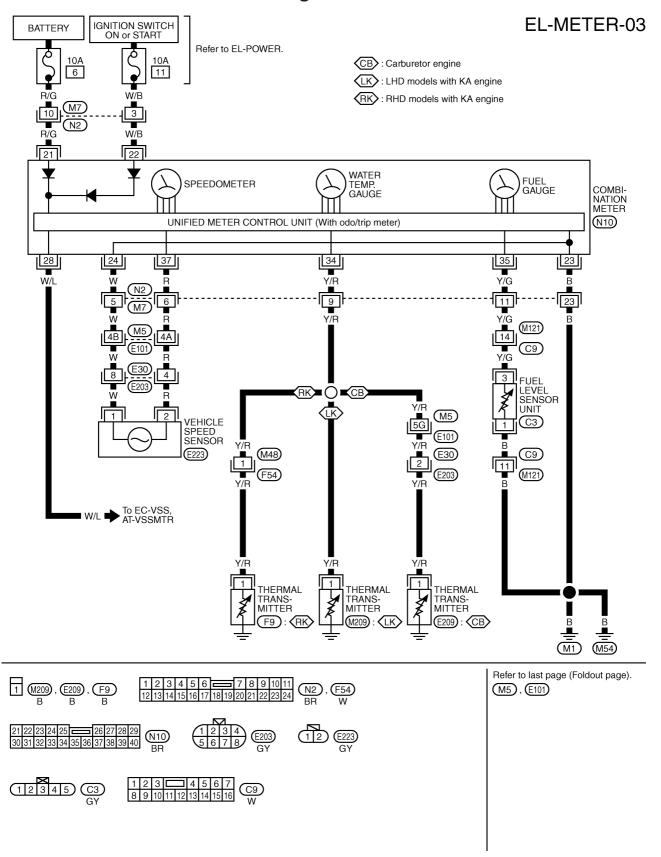


METER AND GAUGES

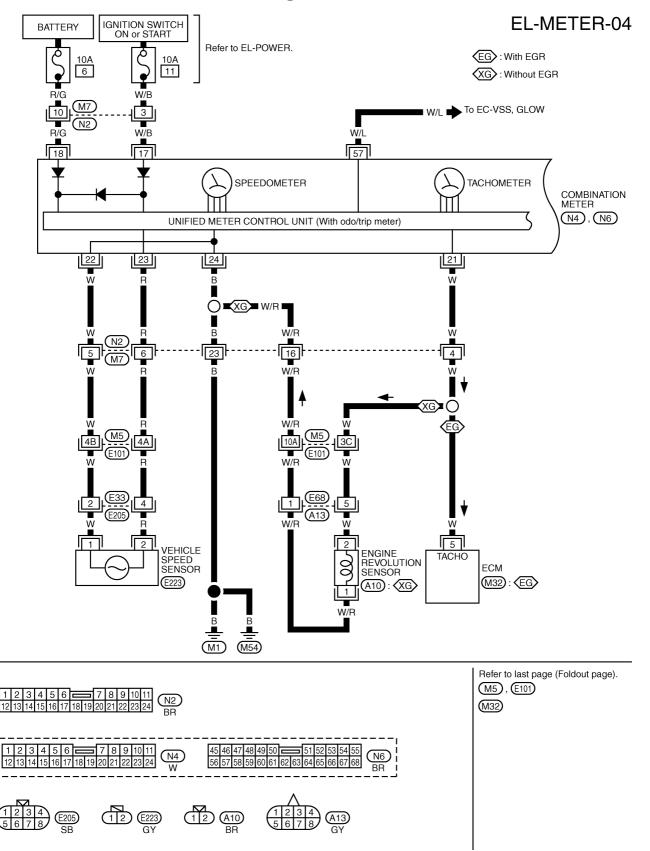
Wiring Diagram — METER —/Gasoline Engine with Tachometer (Cont'd)



Wiring Diagram — METER —/Gasoline Engine without Tachometer



Wiring Diagram — METER —/LHD Diesel Engine Models with Tachometer



Wiring Diagram — METER —/LHD Diesel Engine Models with Tachometer (Cont'd)

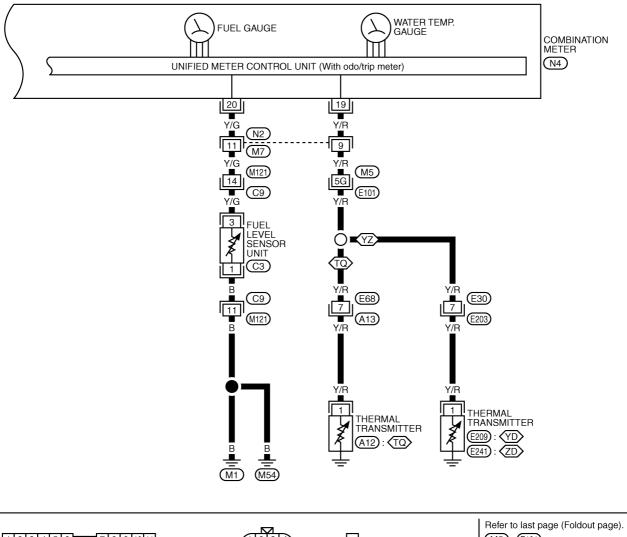
EL-METER-05

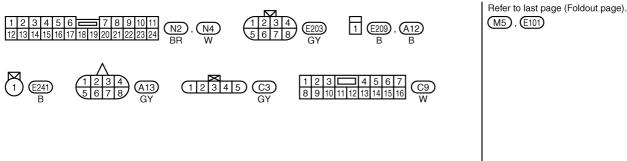
YD: YD engine

ZD : ZD engine

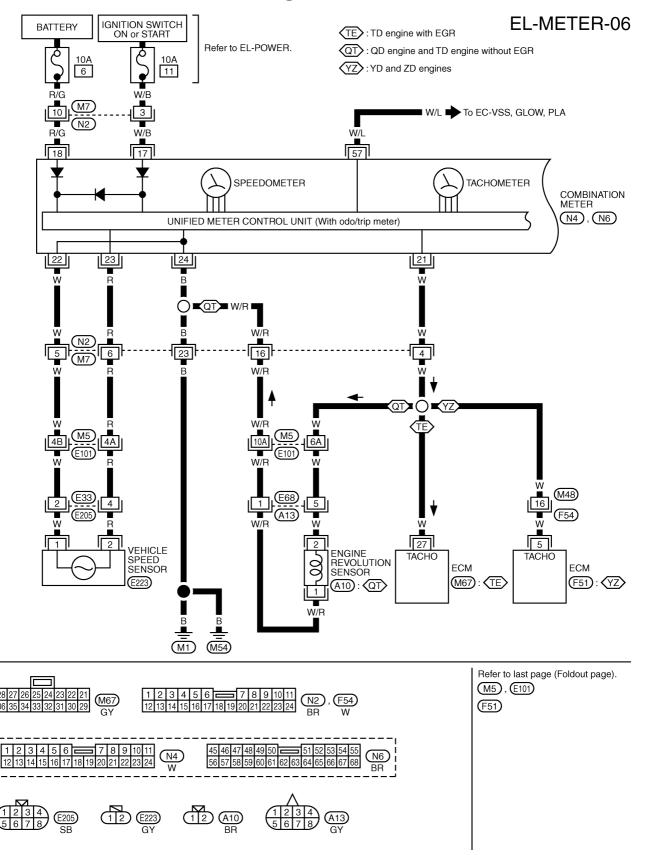
YZ: YD and ZD engines

TQ : TD and QD engines





Wiring Diagram — METER —/RHD Diesel Engine Models with Tachometer



Wiring Diagram — METER —/RHD Diesel Engine Models with Tachometer (Cont'd)

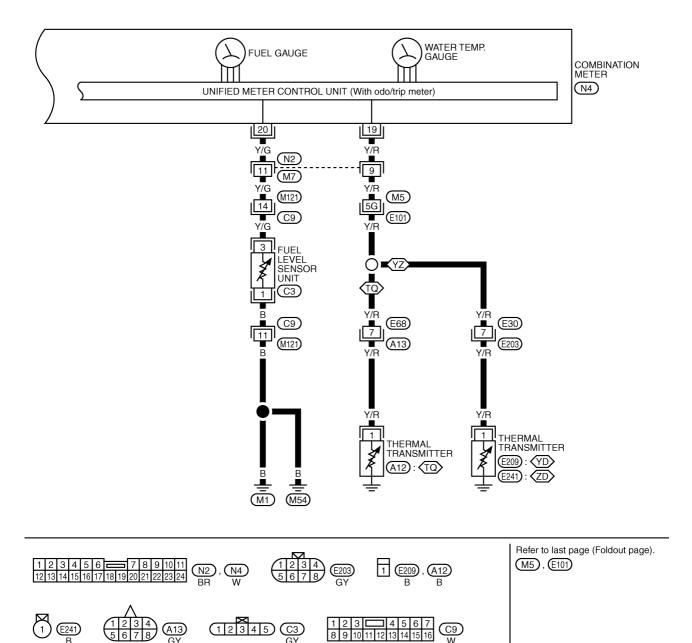
EL-METER-07

YD: YD engine

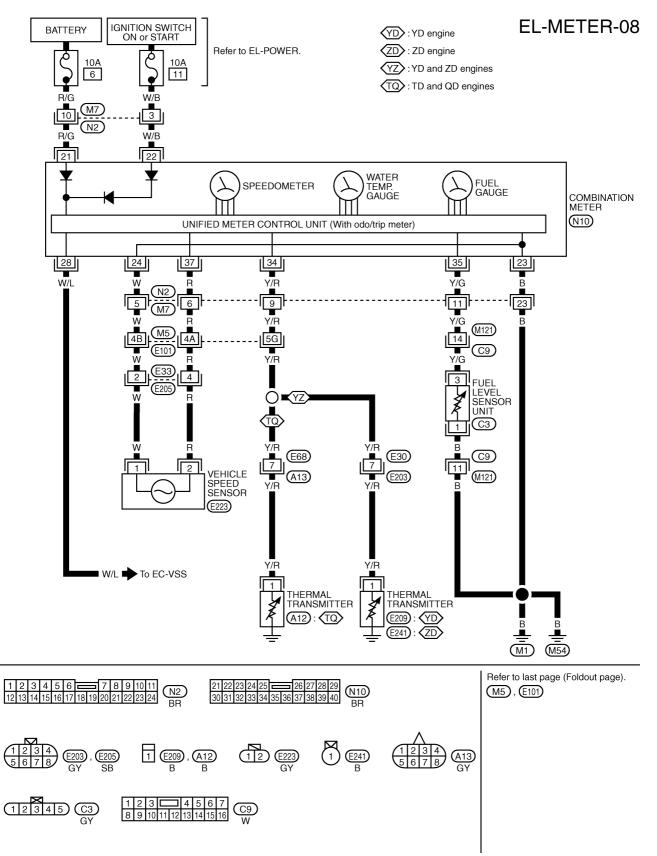
ZD : ZD engine

YZ: YD and ZD engines

TQ : TD and QD engines



Wiring Diagram — METER —/Diesel Engine without Tachometer

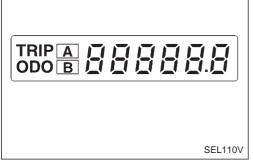


Meter/Gauge Operation and Odo/Trip Meter Segment Check in Diagnosis Mode DIAGNOSIS FUNCTION

- Odo/trip meter segment can be checked in diagnosis mode.
- Meters/gauges can be checked in diagnosis mode.

HOW TO ALTERNATE DIAGNOSIS MODE

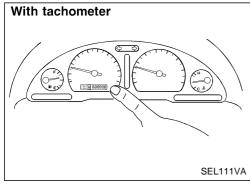
- 1. Turn ignition switch to ON and change odo/trip meter to "TRIP A" or "TRIP B".
- 2. Turn ignition switch to OFF.
- 3. Turn ignition switch to ON when pushing odo/trip meter switch.
- 4. Confirm that trip meter indicates "000.0".
- 5. Push odo/trip meter switch more than three times within 5 seconds.



6. All odo/trip meter segments should be turned on.

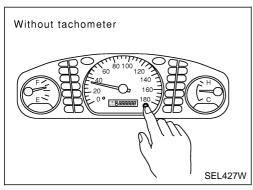
NOTE: If some segments are not turned on, unified meter control unit with odo/trip meter should be replaced.

At this point, the unified control meter is turned to diagnosis mode.

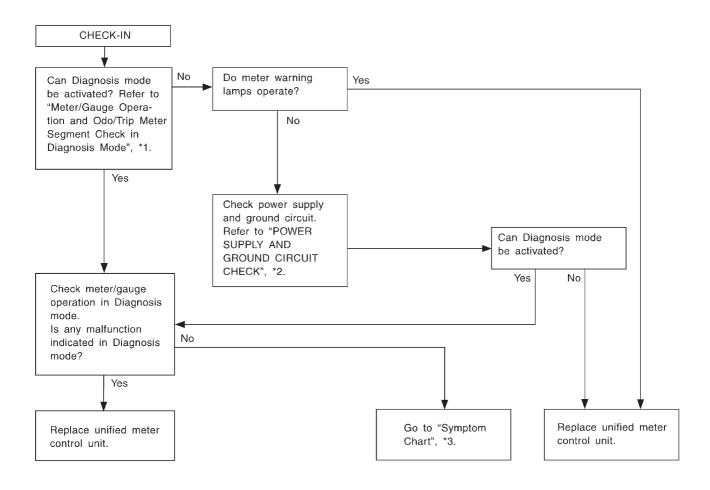


7. Push odo/trip meter switch. Indication of each meter/gauge should be as shown left during pushing odo/trip meter switch if it is no malfunctioning.

NOTE: It takes about a few seconds for indication of fuel gauge to become stable.



Trouble Diagnoses/With Tachometer PRELIMINARY CHECK



SEL269Y

*2:POWER SUPPLY AND GROUND CIRCUIT CHECK (EL-3072)

*3:Symptom Chart (EL-3071)

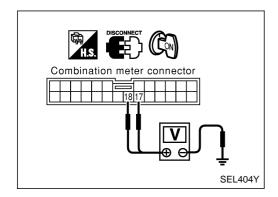
SYMPTOM CHART

Symptom	Possible causes	Repair order
One of speedometer/fuel gauge/water temp. gauge is malfunctioning.	Sensor signal Vehicle speed signal	Check the sensor for malfunctioning meter/gauge. INSPECTION/VEHICLE SPEED SIGNAL (Refer to EL section "Vehicle speed signal" in original Ser-
Multiple meter/gauge are malfunction- ing. (except odo/trip meter)	- Fuel gauge - Water temp. gauge 2. Unified meter control unit	vice Manual.) INSPECTION/FUEL LEVEL SENSOR UNIT INSPECTION/THERMAL TRANSMITTER 2. Replace unified meter control unit.

Before starting trouble diagnoses below, perform PRELIMINARY CHECK, EL-3071.

^{*1:}Meter/Gauge Operation and Odo/ Trip Meter Segment Check in Diagnosis Mode (EL-3070)

METER AND GAUGES



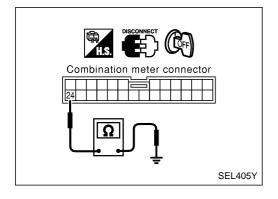
Trouble Diagnoses/With Tachometer (Cont'd) POWER SUPPLY AND GROUND CIRCUIT CHECK

Power supply circuit check

Terminals		Ignition switch position		
\oplus	Θ	OFF	ACC	ON
18 (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
①7) (W/B)	Ground	0V	0V	Battery voltage

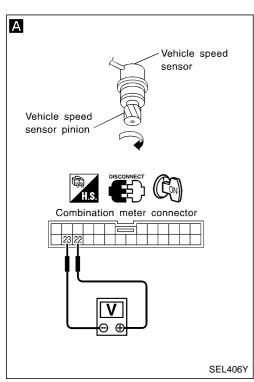
If NG, check the following.

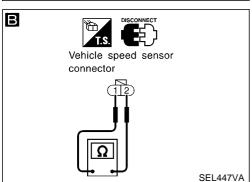
- 10A fuse [No. 11], located in fuse block (J/B)]
 10A fuse [No. 6], located in fuse block (J/B)]
- Harness for open or short between fuse and combination meter

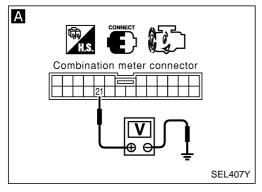


Ground circuit check

Terminals	Continuity	
24 - Ground (B)	Yes	



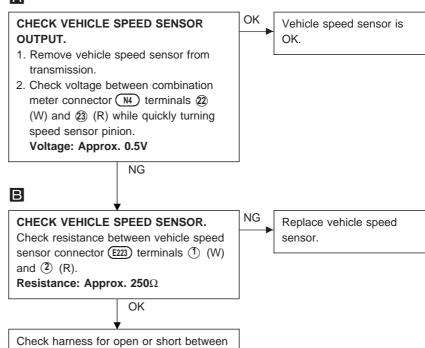




Trouble Diagnoses/With Tachometer (Cont'd) INSPECTION/VEHICLE SPEED SENSOR

Without ABS for the Middle East and Except for the Middle East

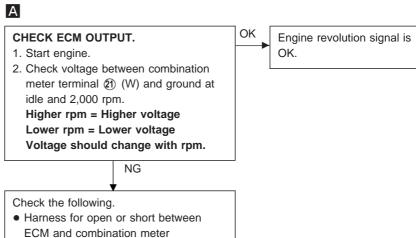
Α

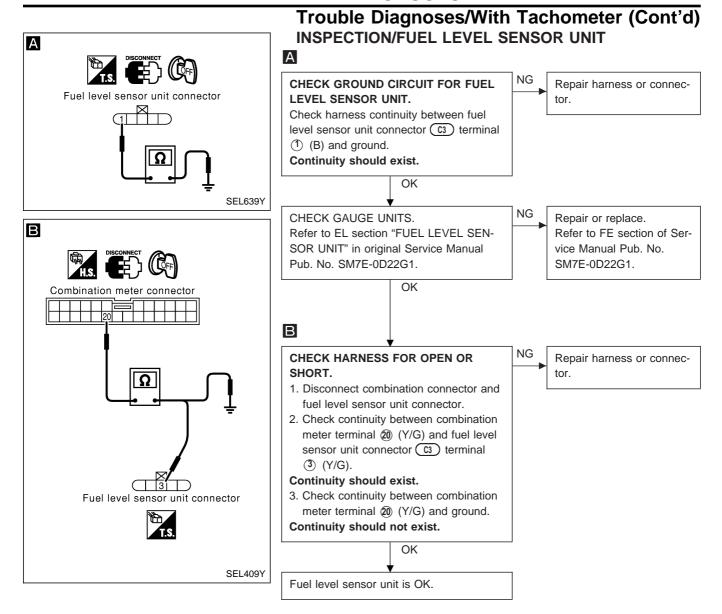


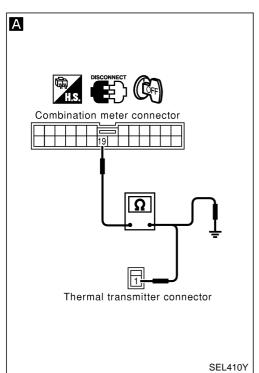
INSPECTION/ENGINE REVOLUTION SIGNAL

combination meter and vehicle speed

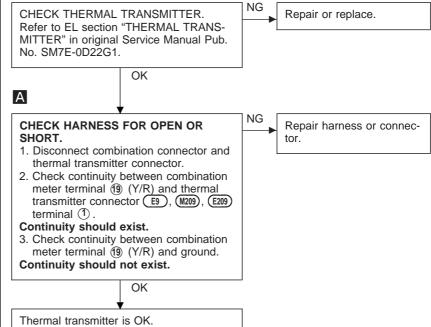
sensor.





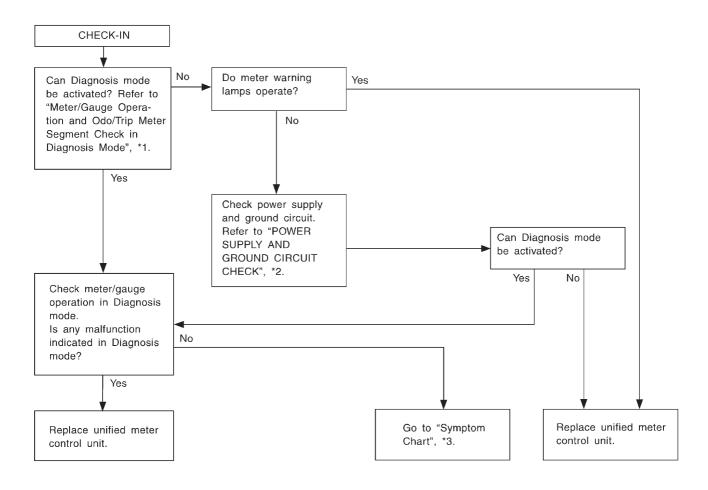


Trouble Diagnoses/With Tachometer (Cont'd) INSPECTION/THERMAL TRANSMITTER



Trouble Diagnoses/Without Tachometer

PRELIMINARY CHECK



SEL269Y

*2:POWER SUPPLY AND GROUND CIRCUIT CHECK (EL-3077)

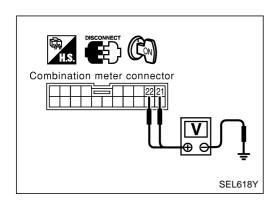
*3:Symptom Chart (EL-3076)

SYMPTOM CHART

Symptom	Possible causes	Repair order
One of speedometer/fuel gauge/water temp. gauge is malfunctioning.	1. Sensor signal - Vehicle speed signal - Fuel gauge - Water temp. gauge 2. Unified meter control unit	Check the sensor for malfunctioning meter/gauge. INSPECTION/VEHICLE SPEED SIGNAL (Refer to EL section "Vehicle speed signal" in original Service Manual.)
Multiple meter/gauge are malfunctioning. (except odo/trip meter)		INSPECTION/FUEL LEVEL SENSOR UNIT INSPECTION/THERMAL TRANSMITTER 2. Replace unified meter control unit.

Before starting trouble diagnoses below, perform PRELIMINARY CHECK, EL-3076.

^{*1:}Meter/Gauge Operation and Odo/ Trip Meter Segment Check in Diagnosis Mode (EL-3070)



Trouble Diagnoses/Without Tachometer (Cont'd)

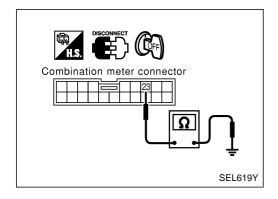
POWER SUPPLY AND GROUND CIRCUIT CHECK

Power supply circuit check

Term	ninals	Ign	ition switch posi	tion
\oplus	Θ	OFF	ACC	ON
21) (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
22 (W/B)	Ground	0V	0V	Battery voltage

If NG, check the following.

- 10A fuse [No. 6, located in fuse block (J/B)]
- 10A fuse [No. 11, located in fuse block (J/B)]
- Harness for open or short between fuse and combination meter



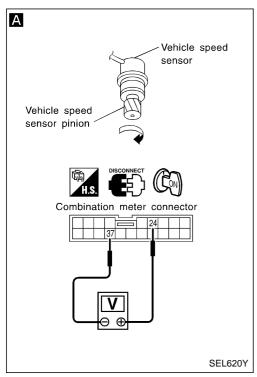
Ground circuit check

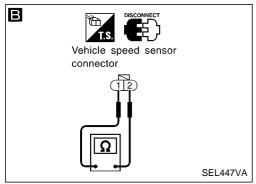
Terminals	Continuity
23 - Ground (B)	Yes

Check harness for open or short between

combination meter and vehicle speed

sensor.



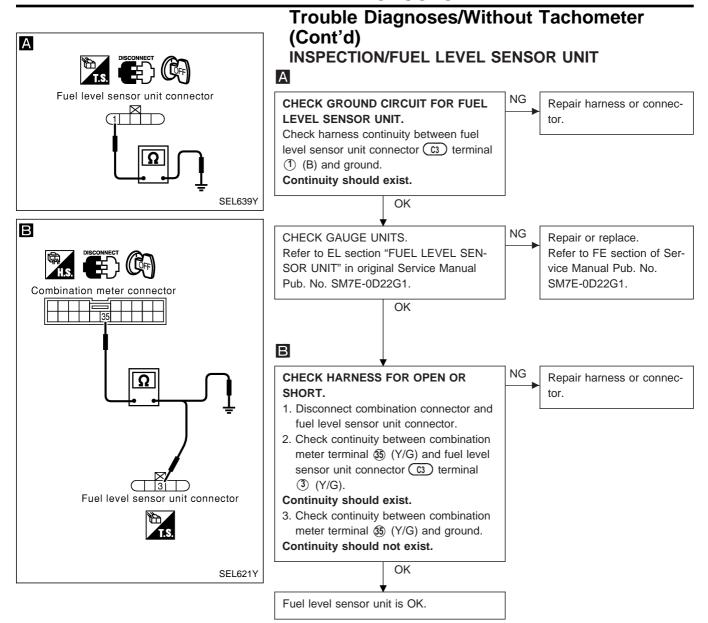


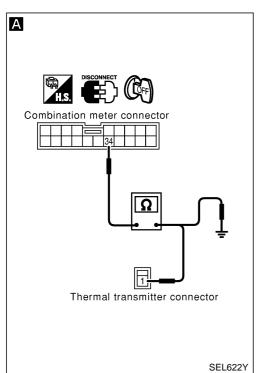
Trouble Diagnoses/Without Tachometer (Cont'd)

INSPECTION/VEHICLE SPEED SENSOR

Without ABS for the Middle East and Except for the **Middle East**

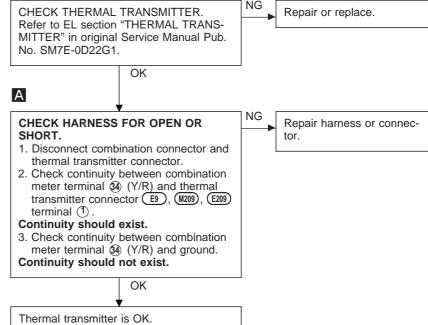
Α **CHECK VEHICLE SPEED SENSOR** Vehicle speed sensor is OUTPUT. OK. 1. Remove vehicle speed sensor from transmission. 2. Check voltage between combination meter connector N10 terminals 24) (W) and 37 (R) while quickly turning speed sensor pinion. Voltage: Approx. 0.5V NG В CHECK VEHICLE SPEED SENSOR. Replace vehicle speed Check resistance between vehicle speed sensor. sensor connector (E223) terminals (1) (W) and (2) (R). Resistance: Approx. 250 Ω OK



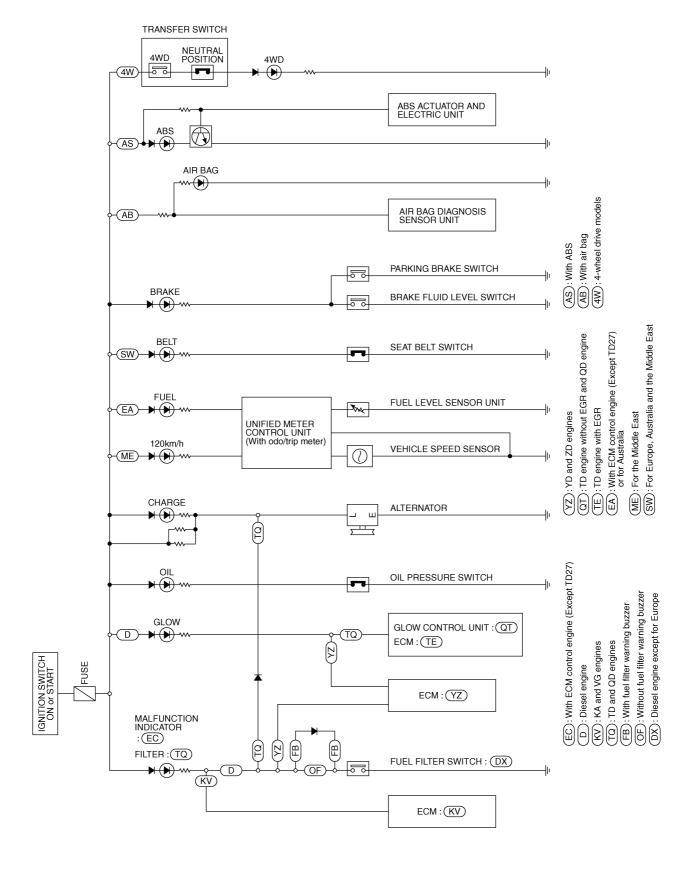


Trouble Diagnoses/Without Tachometer (Cont'd)

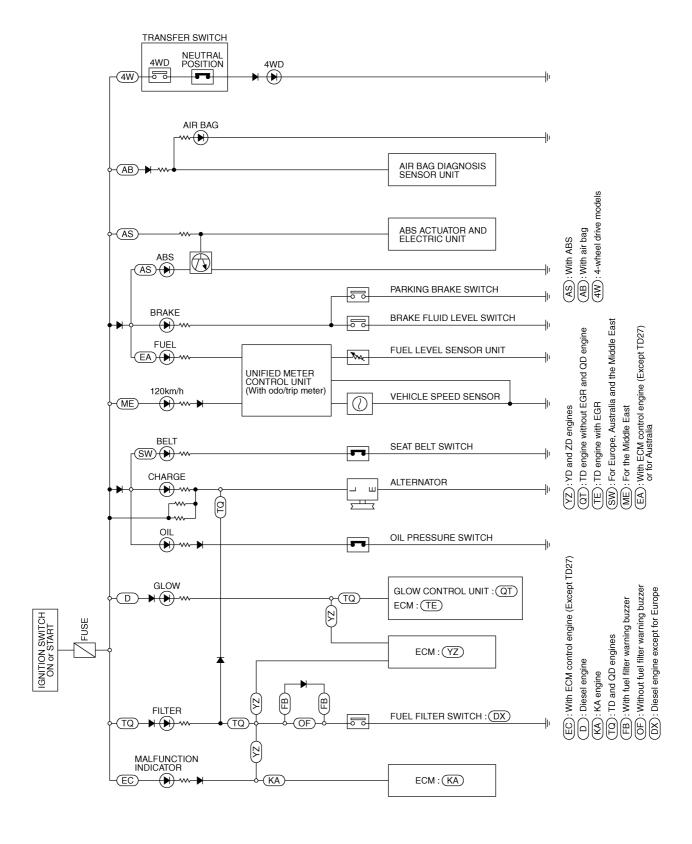
INSPECTION/THERMAL TRANSMITTER



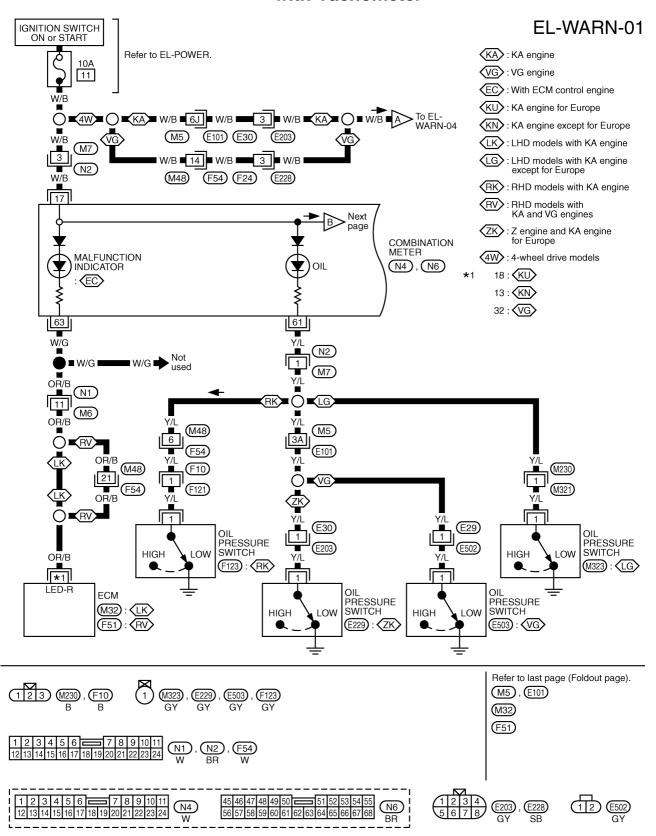
Schematic/With Tachometer



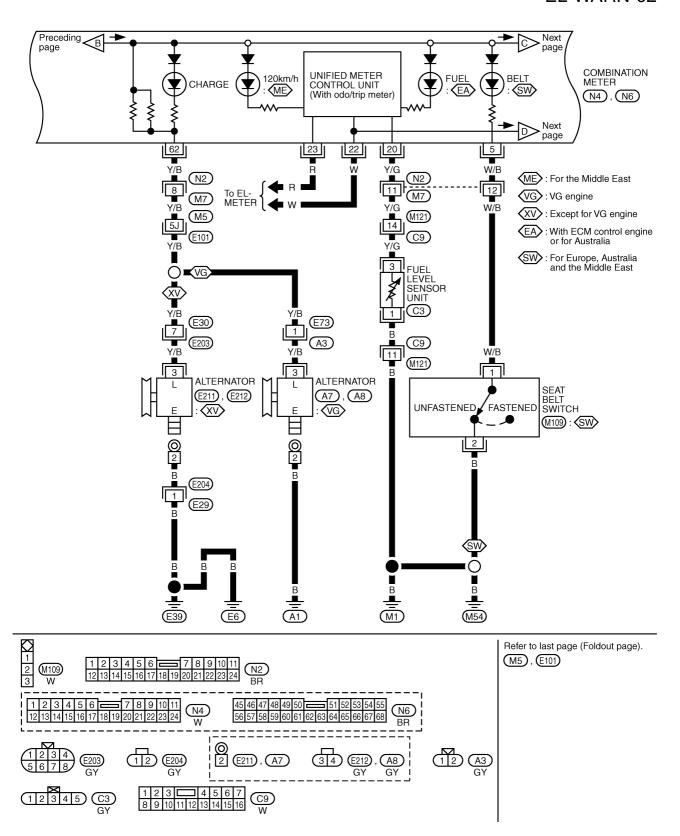
Schematic/Without Tachometer



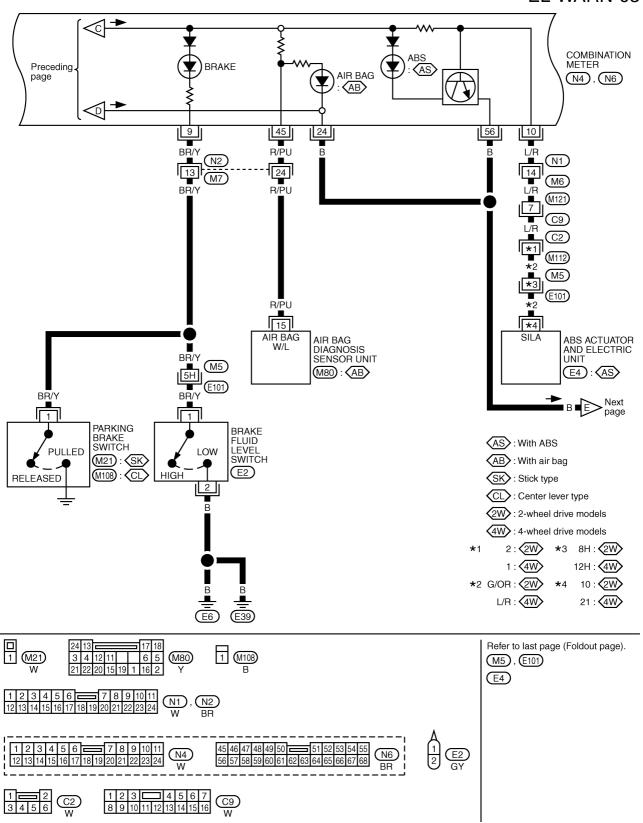
Wiring Diagram — WARN —/Gasoline Engine with Tachometer



Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)

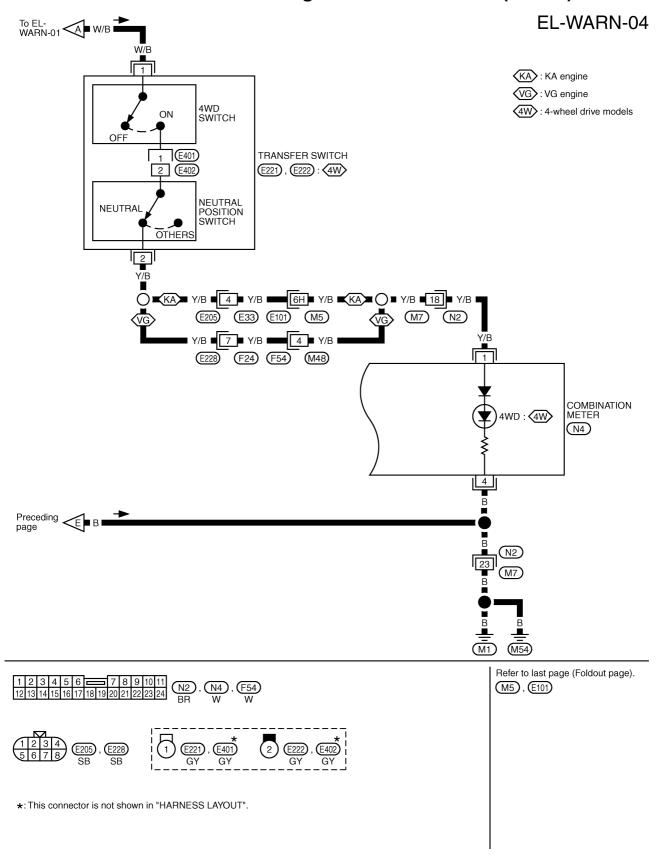


Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)

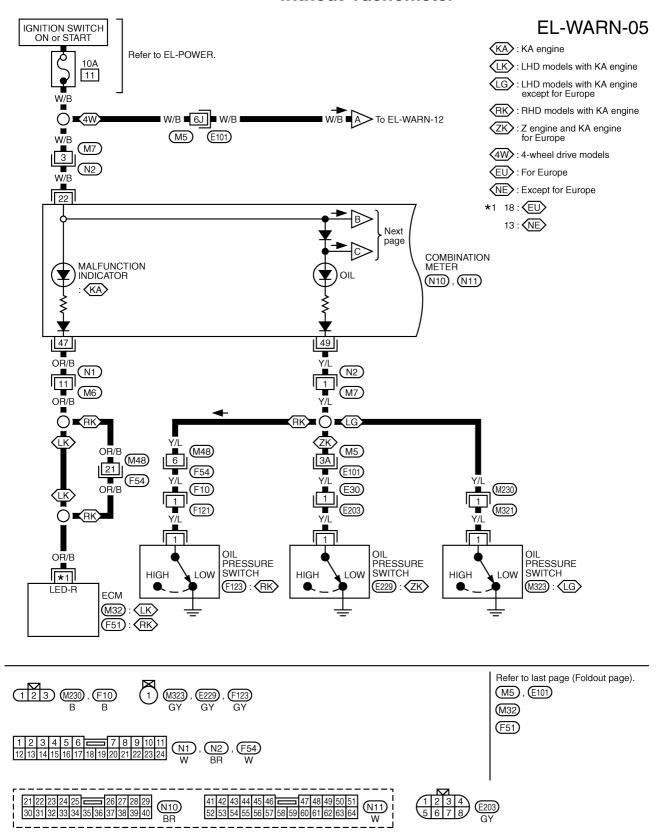


WARNING LAMPS

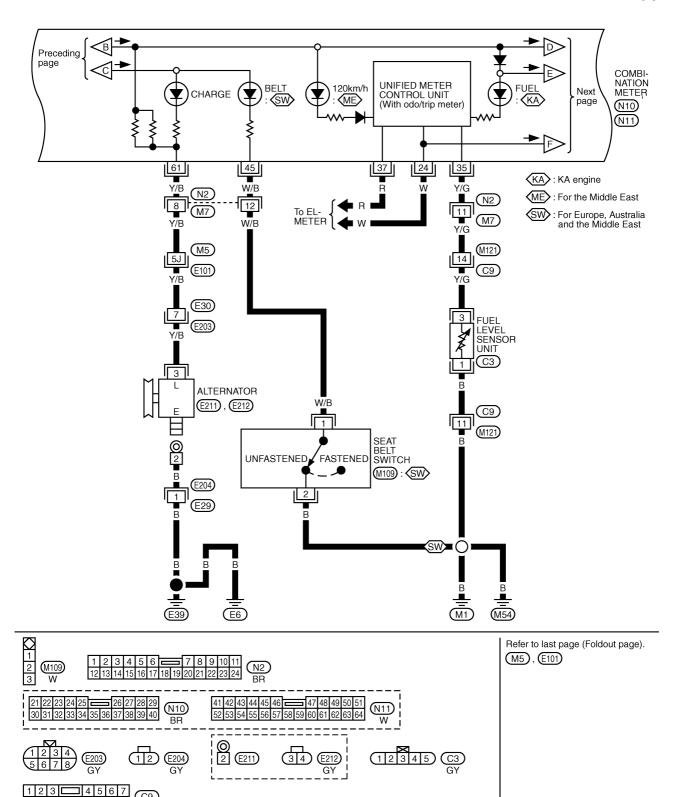
Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)



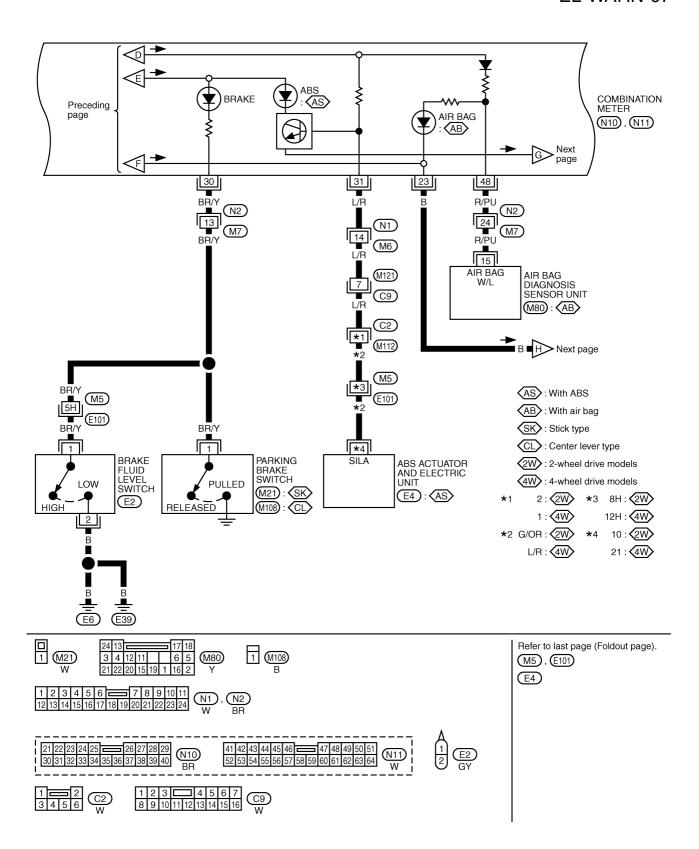
Wiring Diagram — WARN —/Gasoline Engine without Tachometer



Wiring Diagram — WARN —/Gasoline Engine without Tachometer (Cont'd)

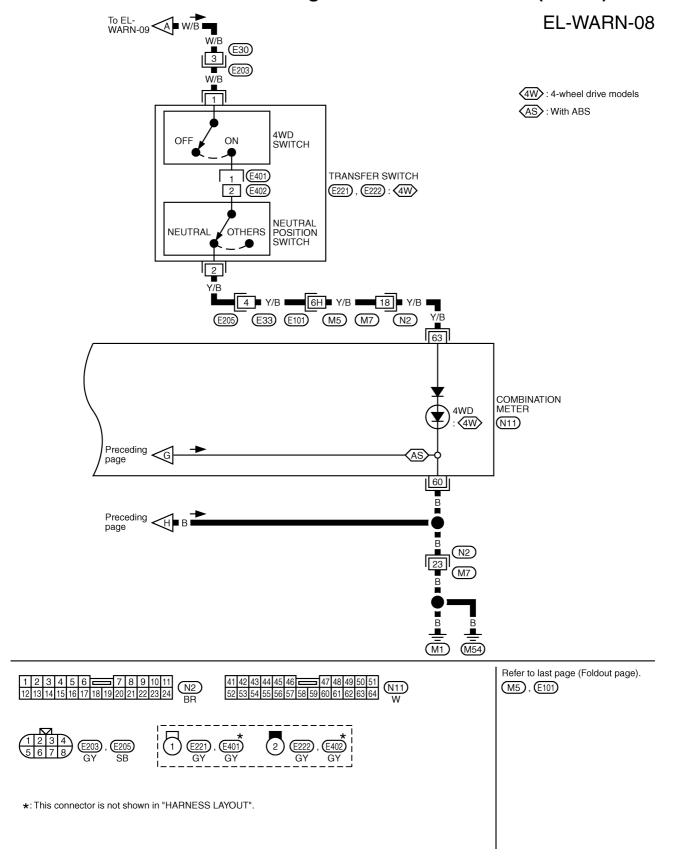


Wiring Diagram — WARN —/Gasoline Engine without Tachometer (Cont'd)

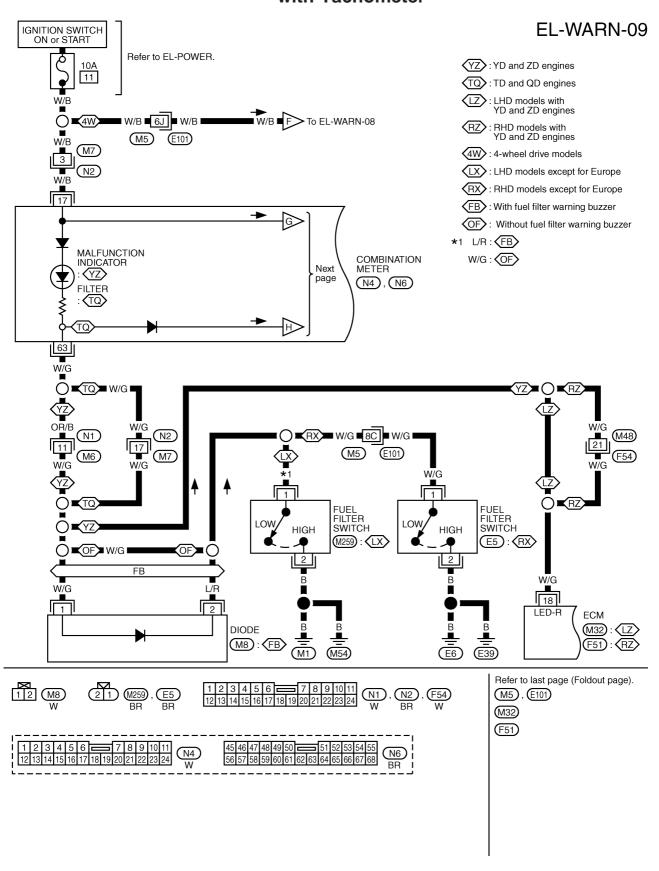


WARNING LAMPS

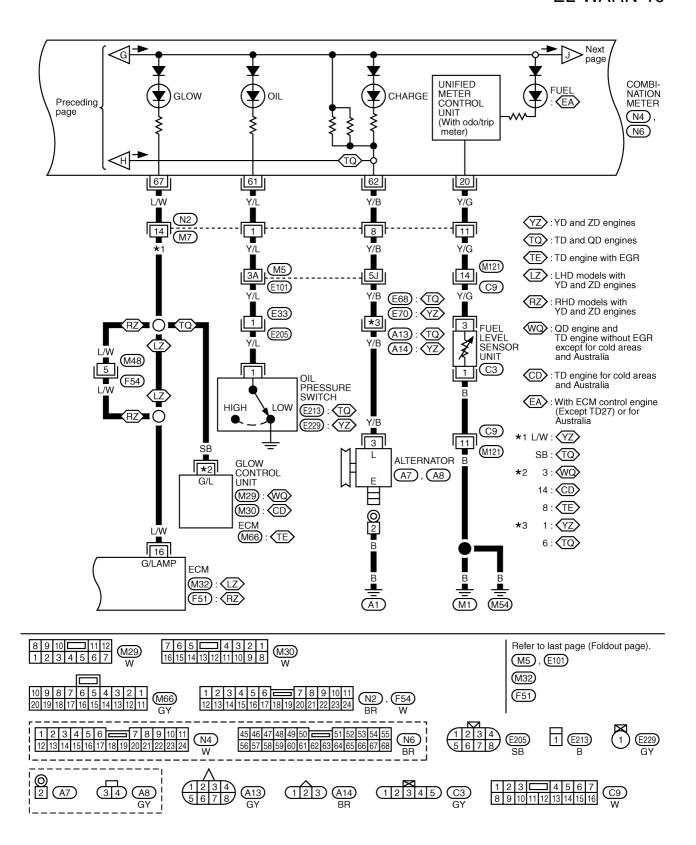
Wiring Diagram — WARN —/Gasoline Engine without Tachometer (Cont'd)



Wiring Diagram — WARN —/Diesel Engine with Tachometer

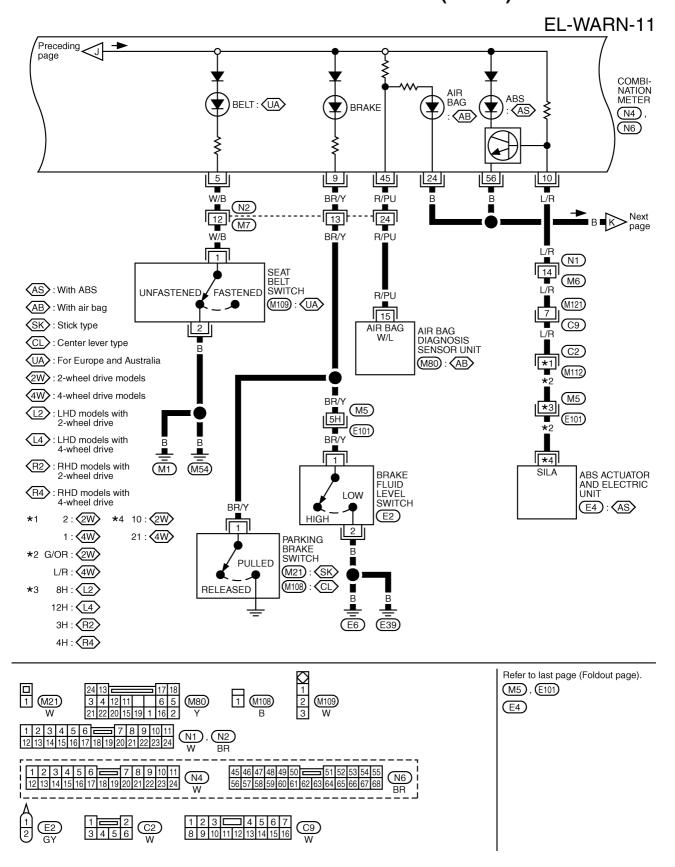


Wiring Diagram — WARN —/Diesel Engine with Tachometer (Cont'd)



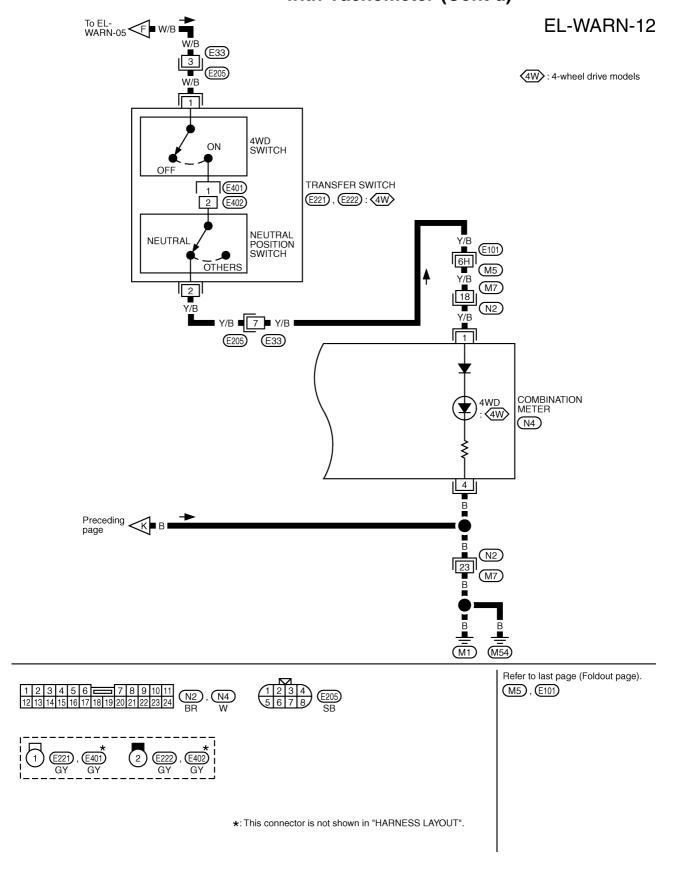
WARNING LAMPS

Wiring Diagram — WARN —/Diesel Engine with Tachometer (Cont'd)

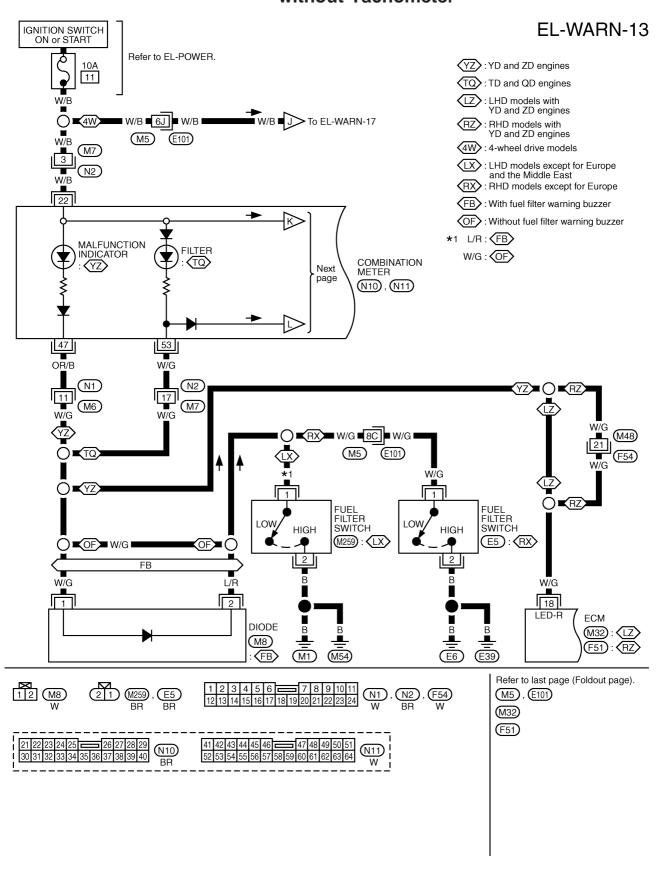


WARNING LAMPS

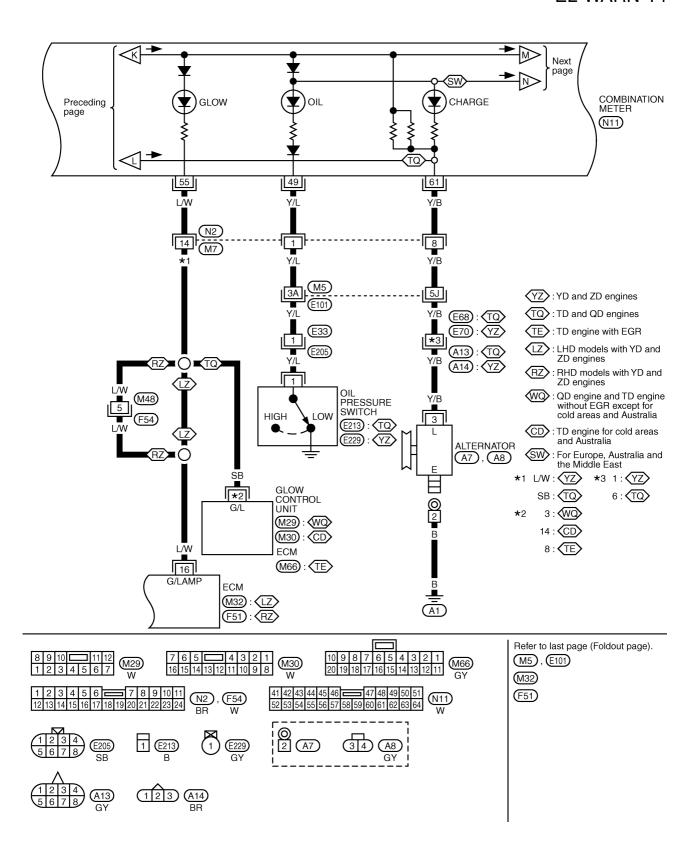
Wiring Diagram — WARN —/Diesel Engine with Tachometer (Cont'd)



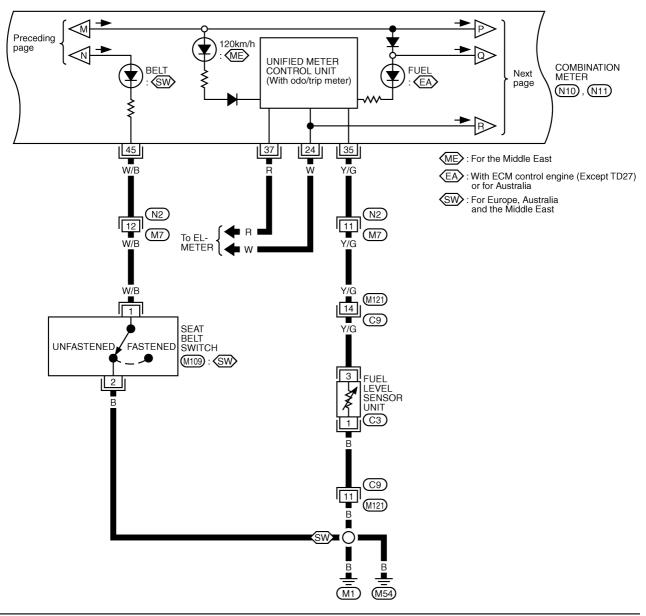
Wiring Diagram — WARN —/Diesel Engine without Tachometer

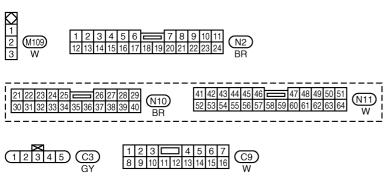


Wiring Diagram — WARN —/Diesel Engine without Tachometer (Cont'd)



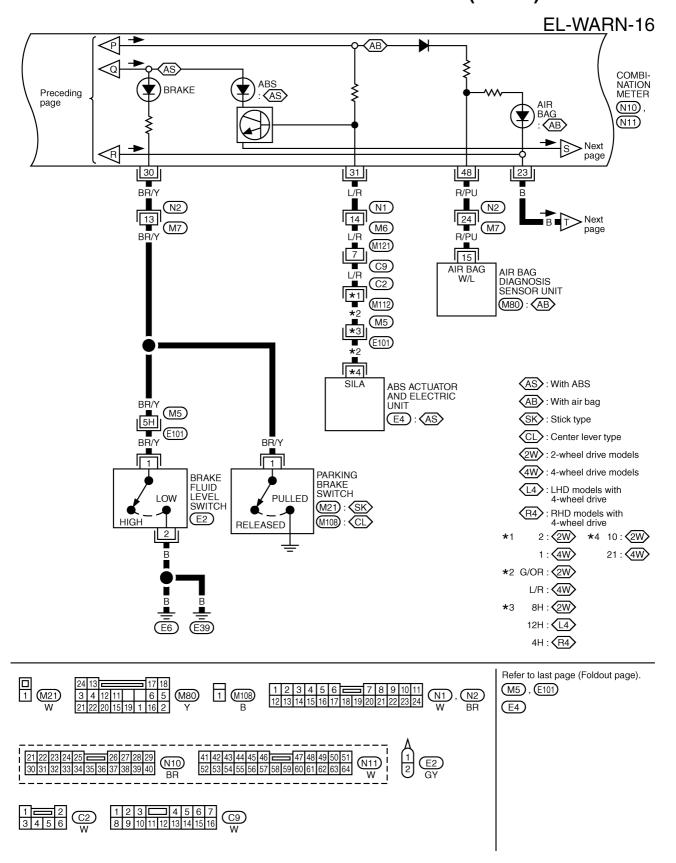
Wiring Diagram — WARN —/Diesel Engine without Tachometer (Cont'd)





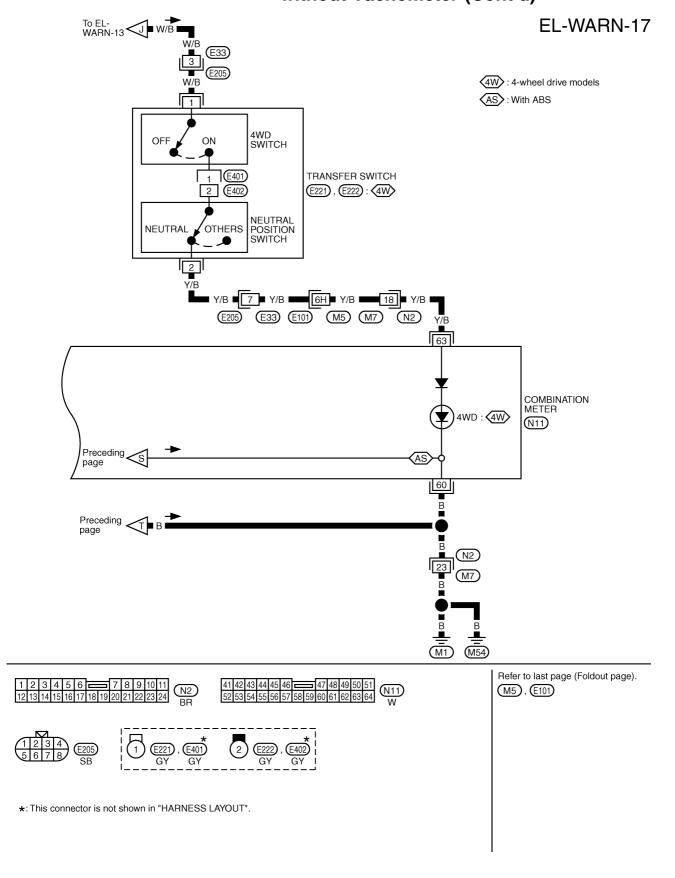
WARNING LAMPS

Wiring Diagram — WARN —/Diesel Engine without Tachometer (Cont'd)

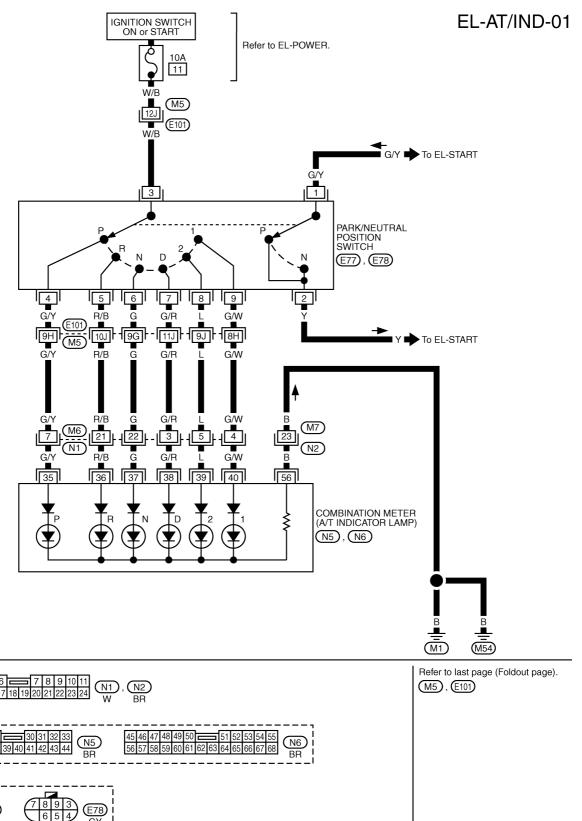


WARNING LAMPS

Wiring Diagram — WARN —/Diesel Engine without Tachometer (Cont'd)

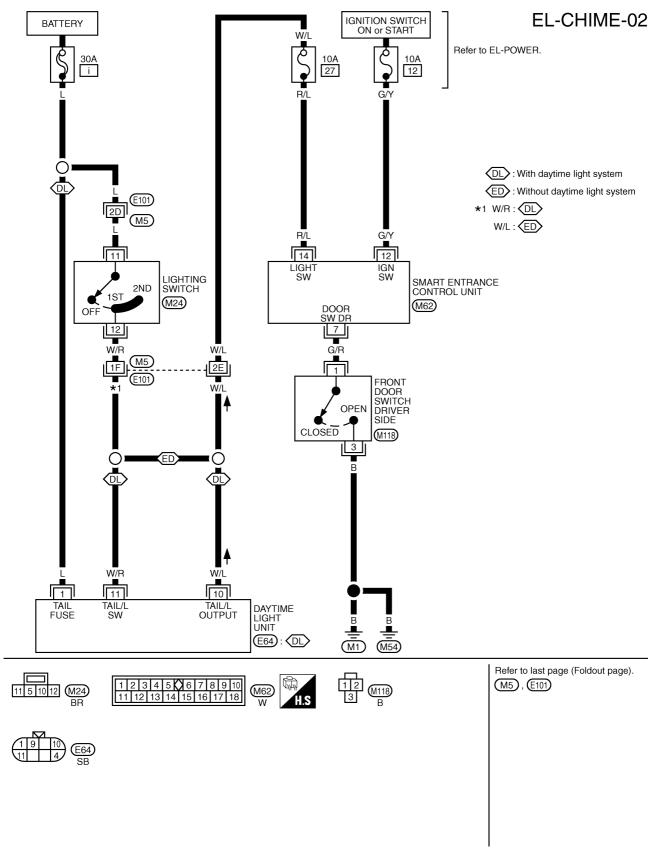


Wiring Diagram — AT/IND —/RHD Models



Wiring Diagram — CHIME —/LHD Models

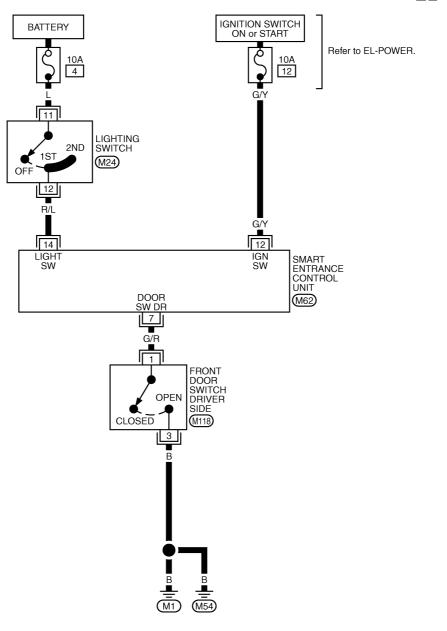
LIGHT WARNING BUZZER



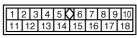
Wiring Diagram — CHIME —/RHD Models

LIGHT WARNING BUZZER

EL-CHIME-03

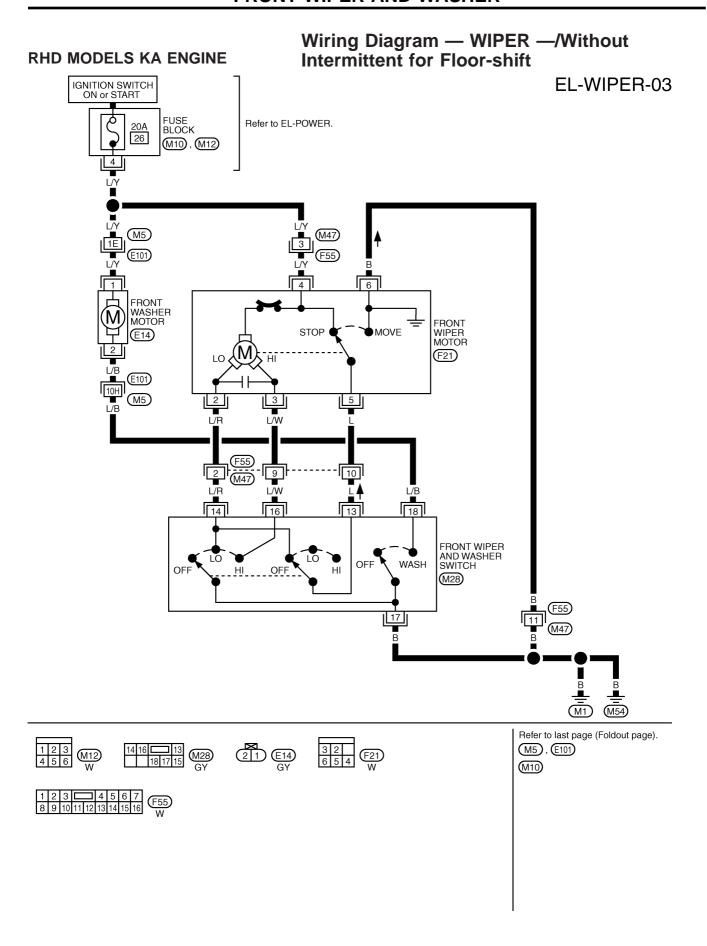








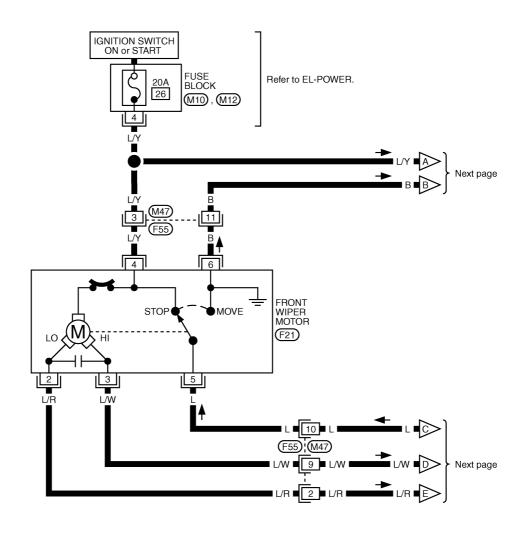


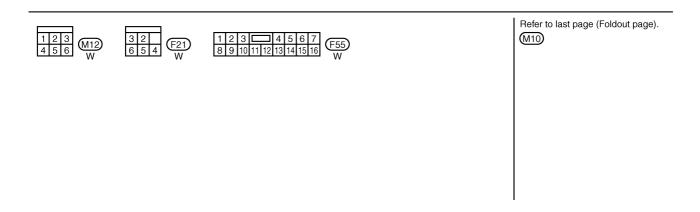


Wiring Diagram — WIPER —/Without Intermittent for Floor-shift (Cont'd)

RHD MODELS

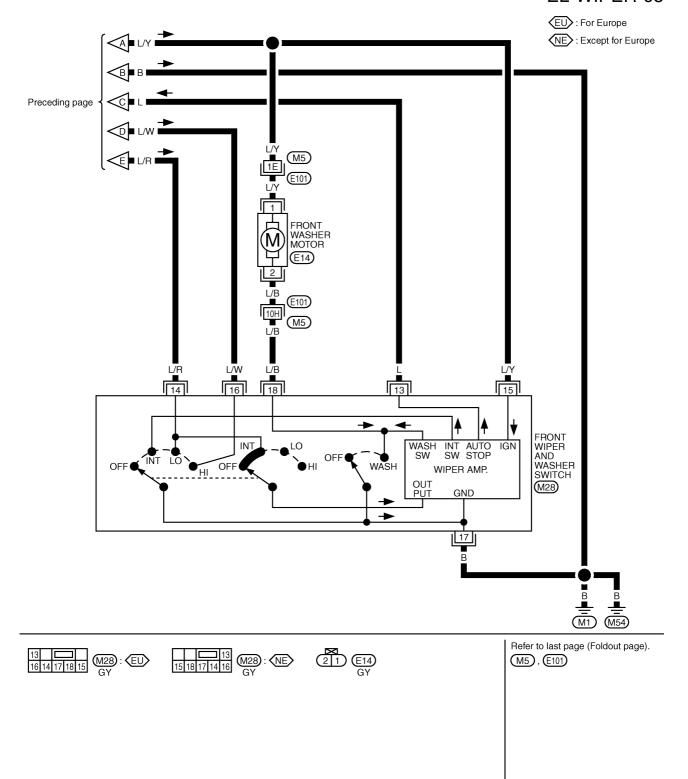
EL-WIPER-04





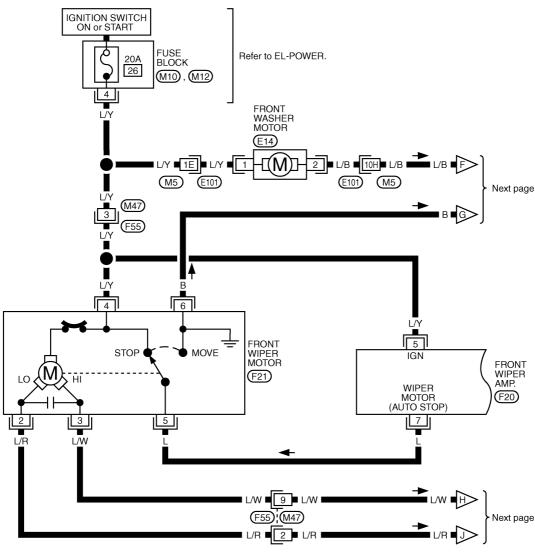
Wiring Diagram — WIPER —/Without Intermittent for Floor-shift (Cont'd)

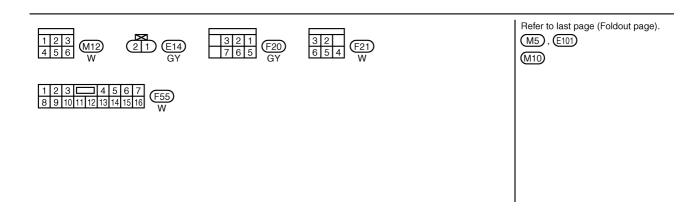
EL-WIPER-05



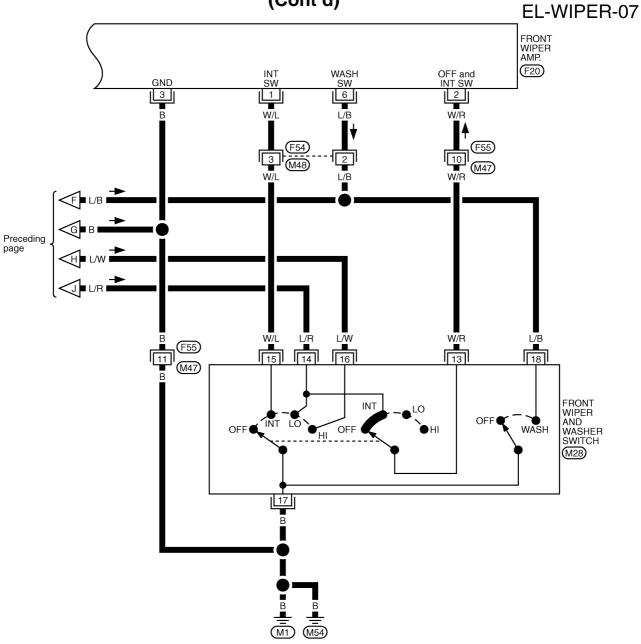
Wiring Diagram — WIPER —/Without Intermittent for RHD Column-shift Models

EL-WIPER-06



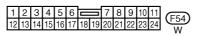


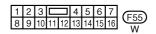
Wiring Diagram — WIPER —/Without Intermittent for RHD Column-shift Models (Cont'd)



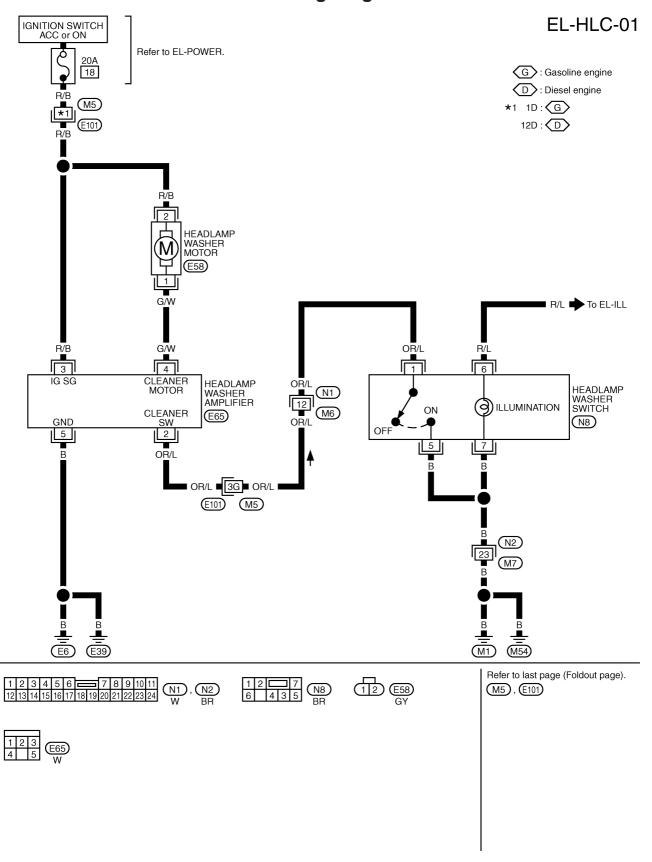






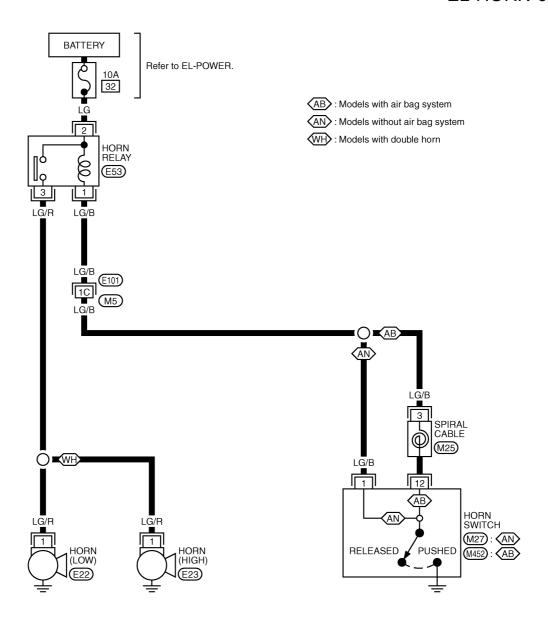


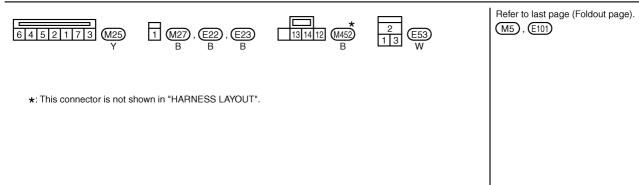
Wiring Diagram — HLC —



Wiring Diagram — HORN —

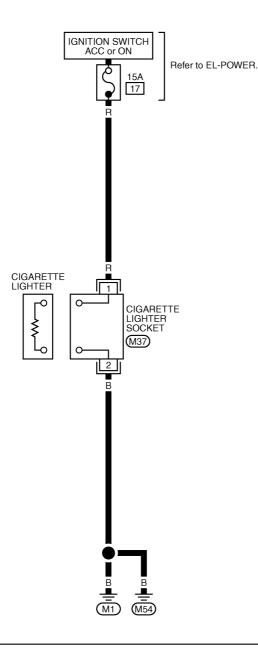
EL-HORN-01





Wiring Diagram — CIGAR —

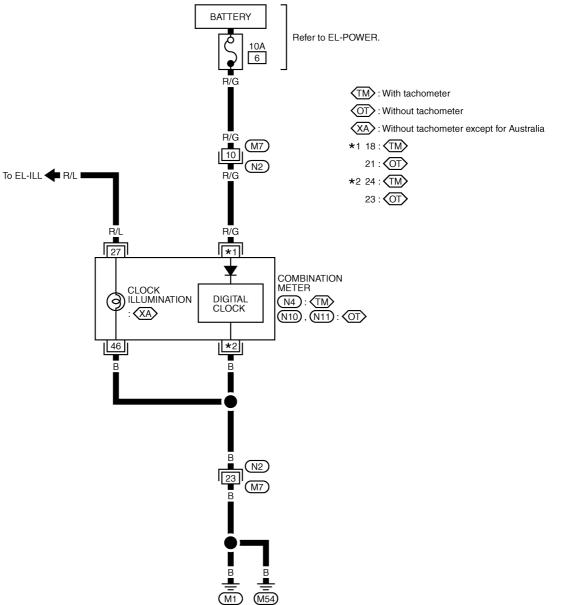
EL-CIGAR-01

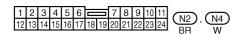




Wiring Diagram — CLOCK —

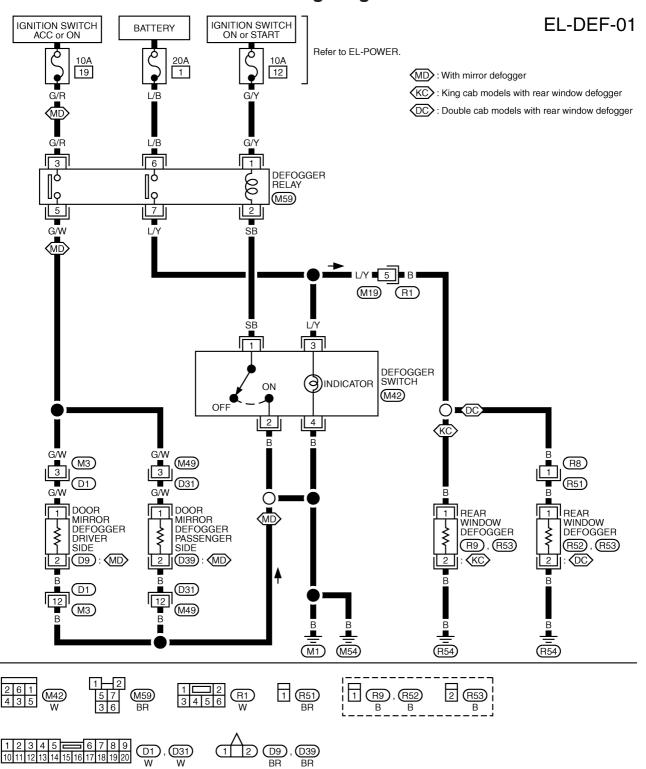
EL-CLOCK-01



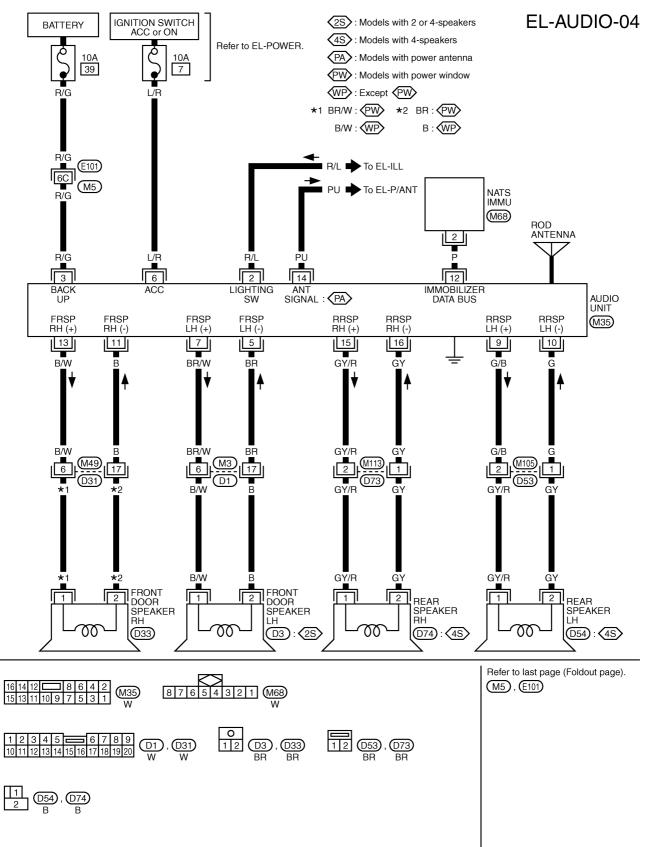




Wiring Diagram — DEF —

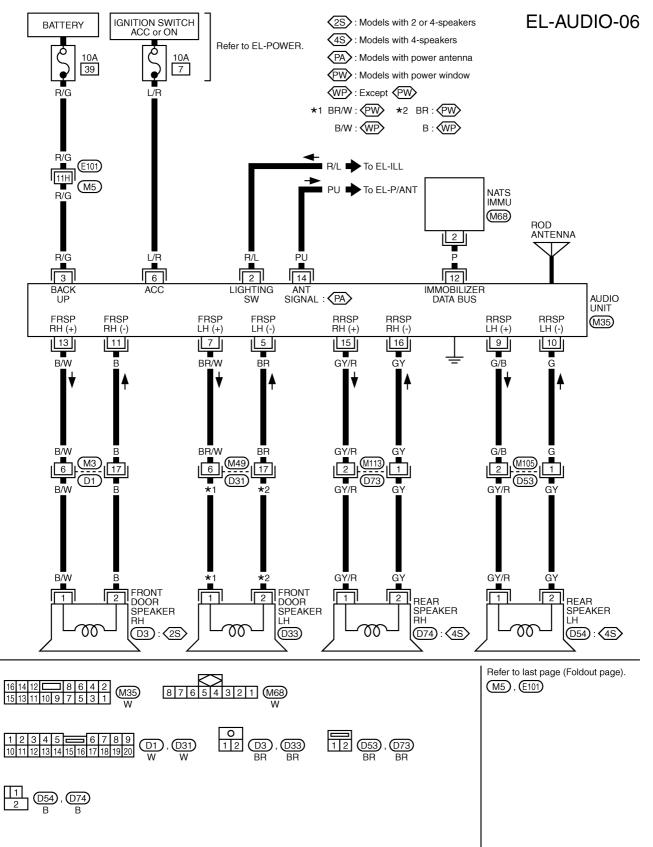


Wiring Diagram — AUDIO —/LHD Models



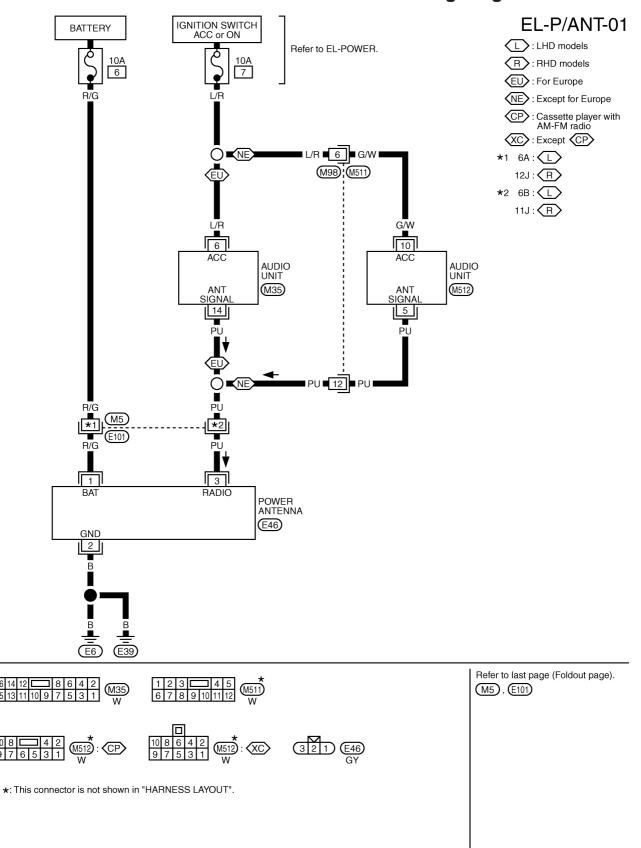
GEL435A

Wiring Diagram — AUDIO —/RHD Models

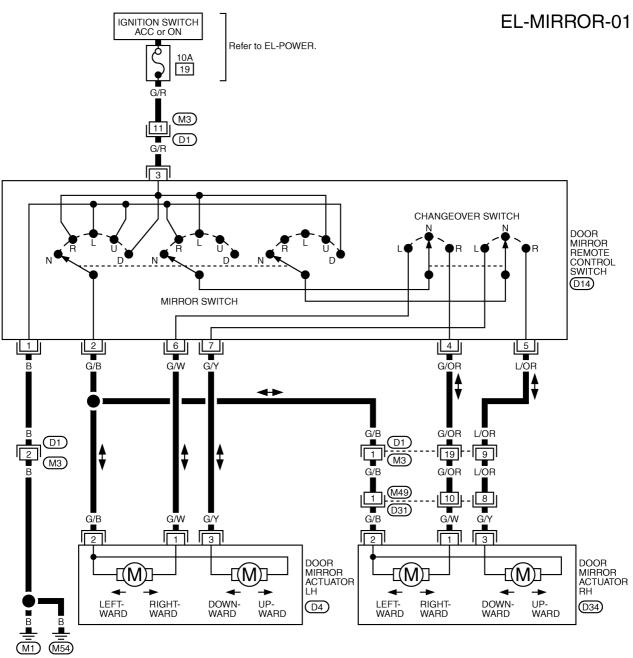


GEL437A

Power Antenna/Wiring Diagram — P/ANT —

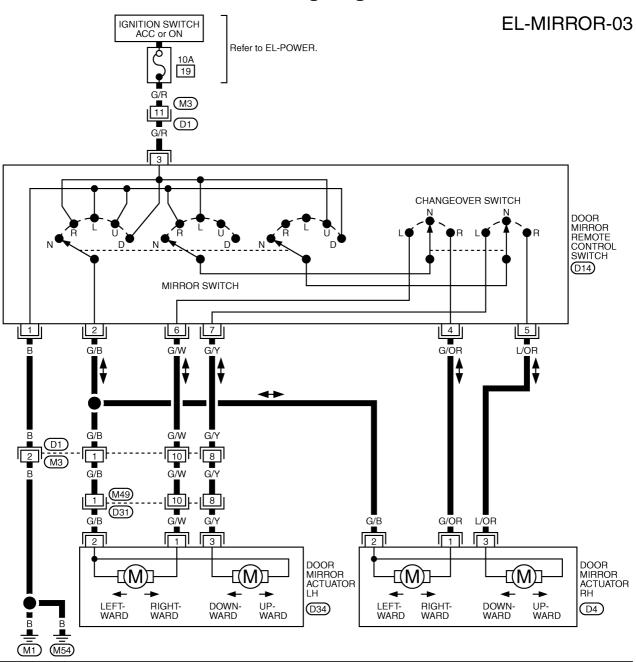


Wiring Diagram — MIRROR —/LHD Models



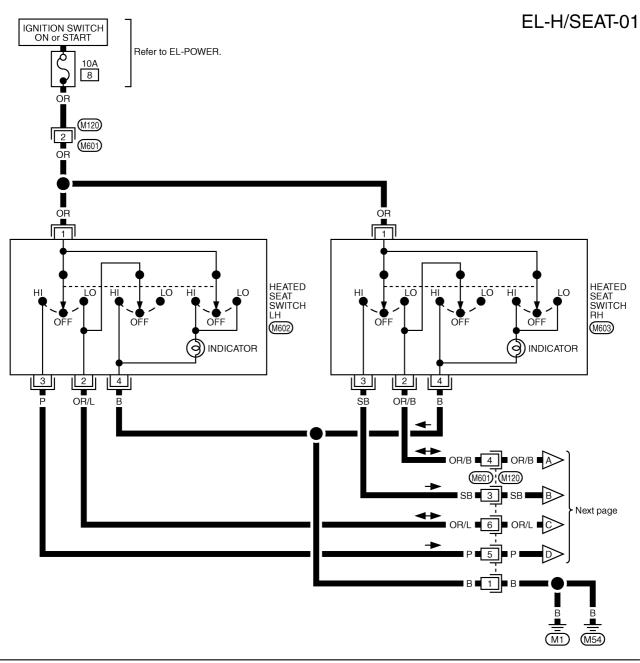


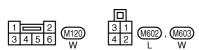
Wiring Diagram — MIRROR —/RHD Models





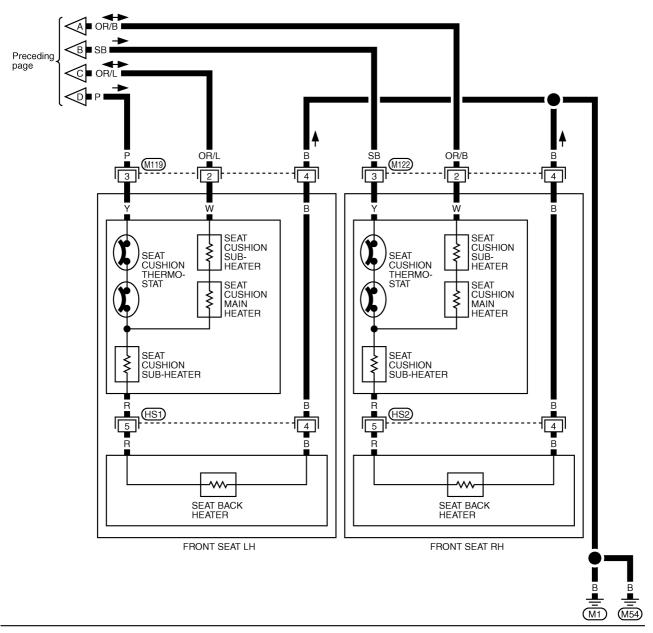
Wiring Diagram — H/SEAT —





Wiring Diagram — H/SEAT — (Cont'd)

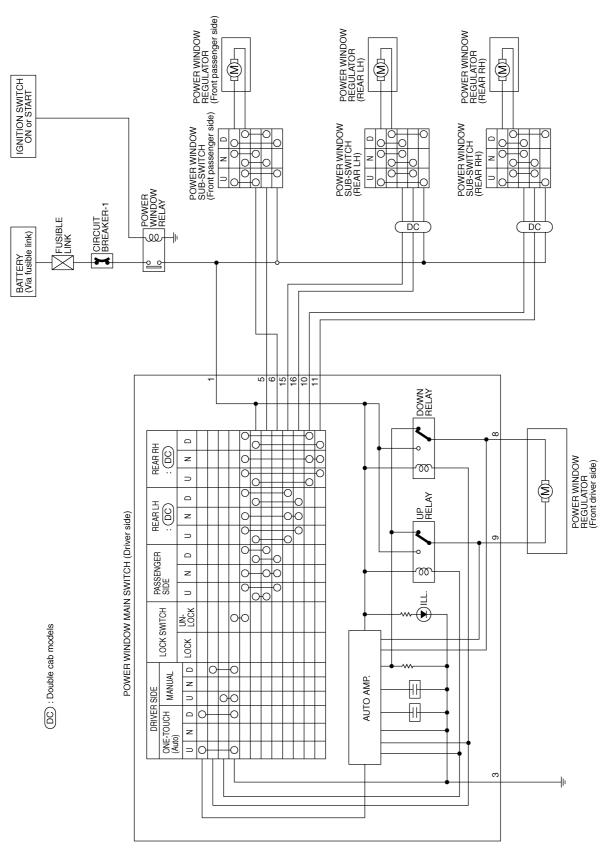
EL-H/SEAT-02

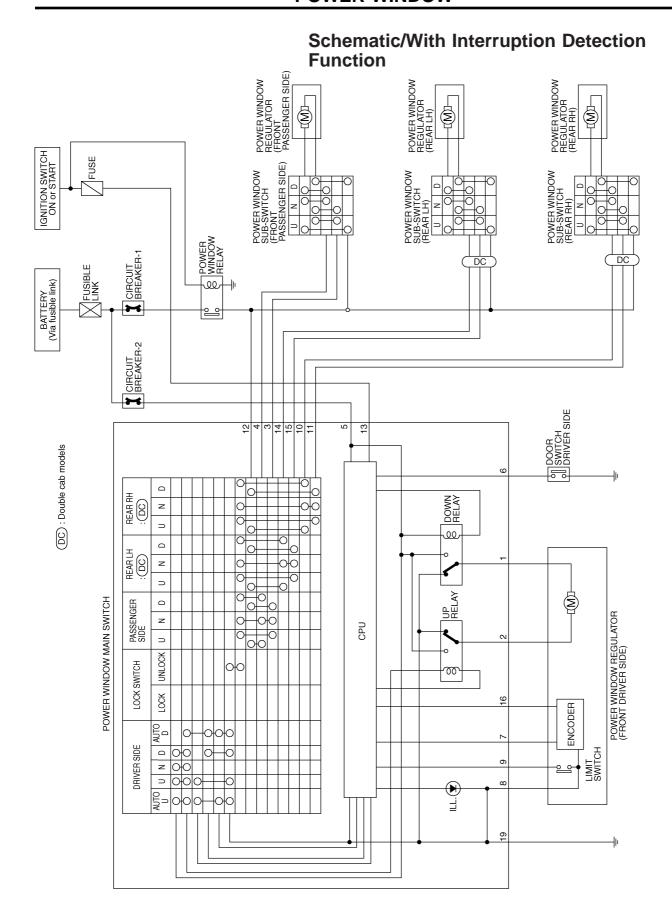




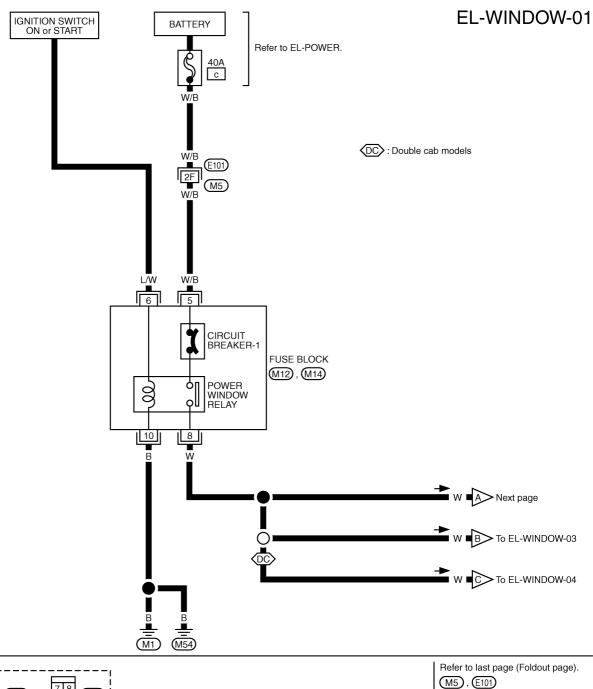
★: This connector is not shown in "HARNESS LAYOUT"

Schematic/Without Interruption Detection Function



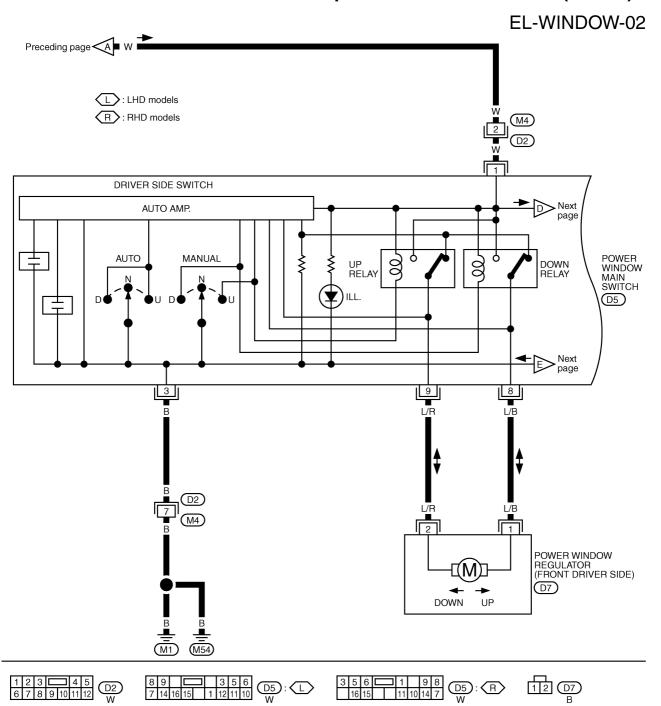


Wiring Diagram — WINDOW —/Without Interruption Detection Function



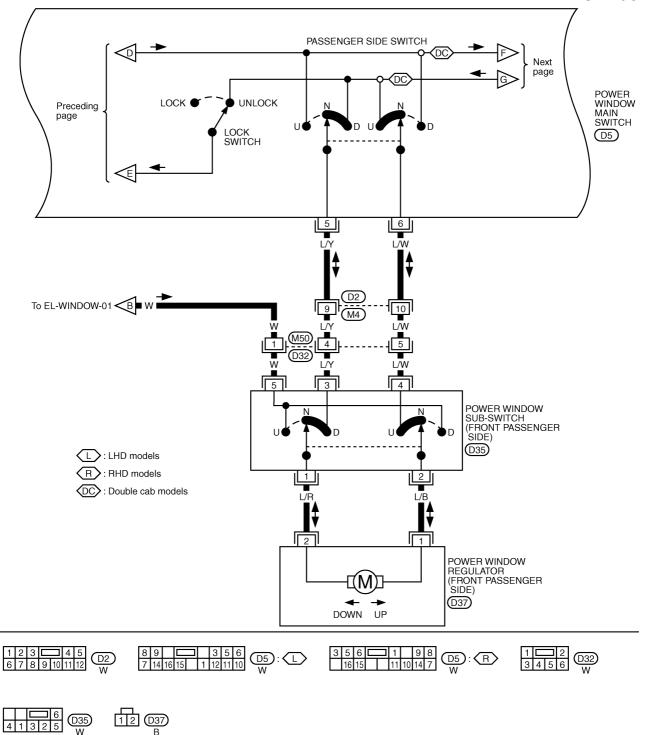


Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)



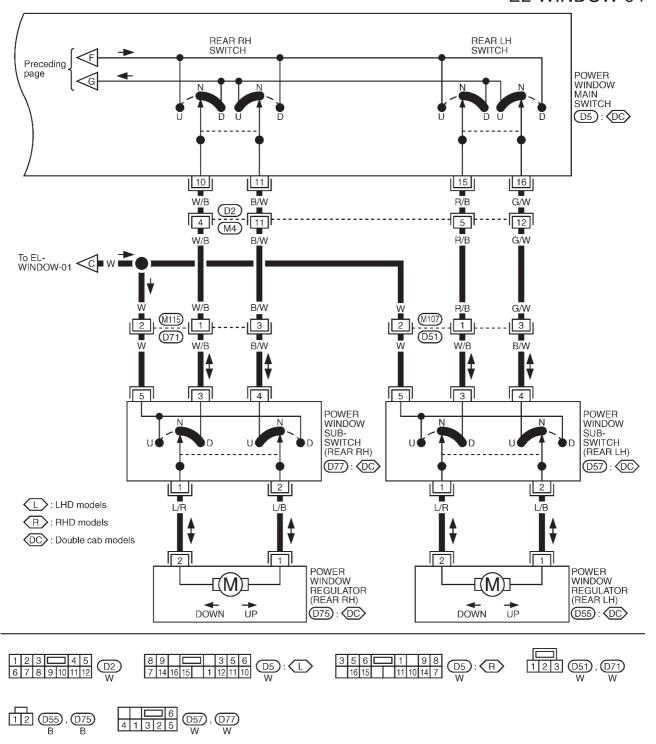
Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)

EL-WINDOW-03

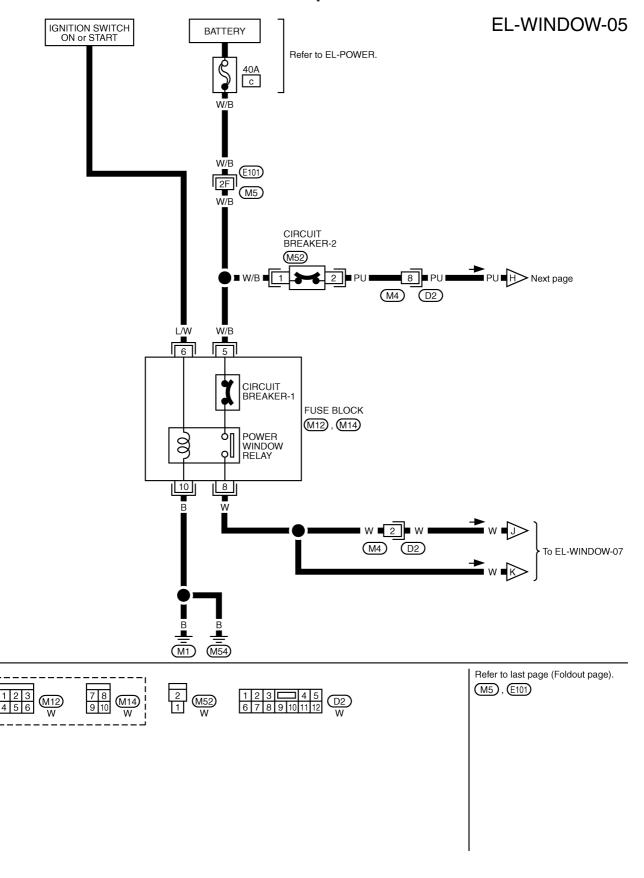


Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)

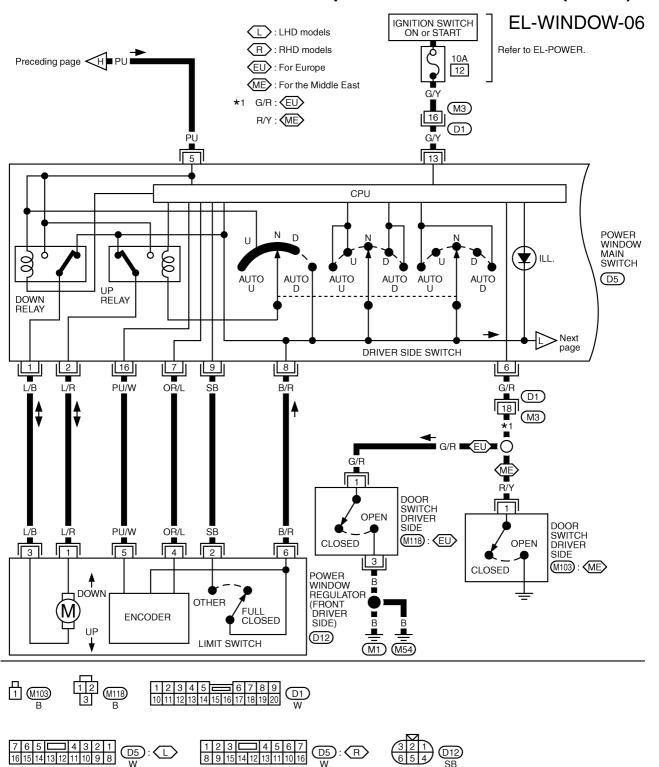
EL-WINDOW-04



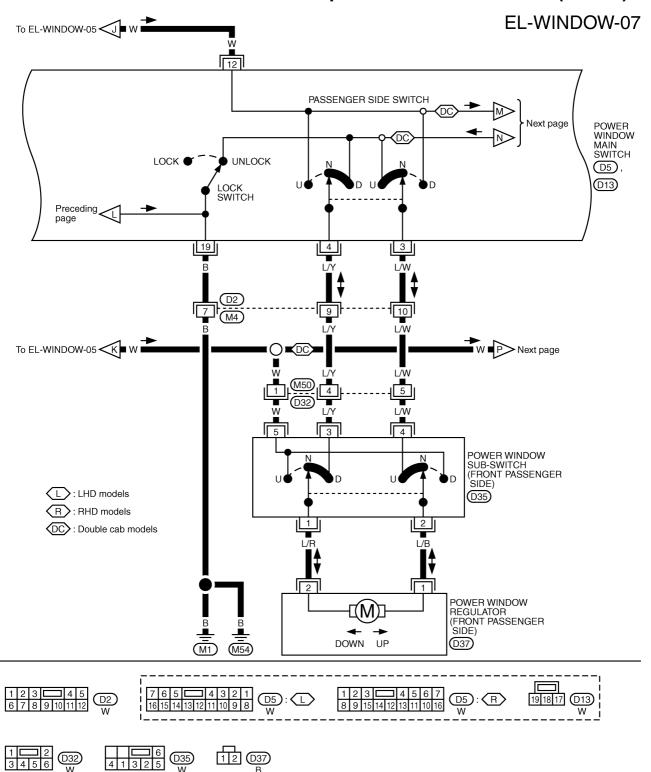
Wiring Diagram — WINDOW —/With Interruption Detection Function



Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)

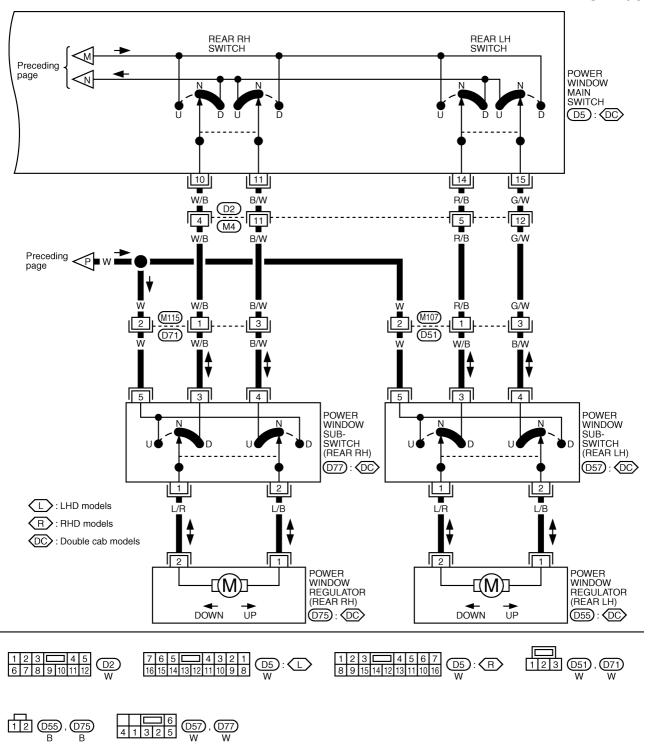


Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)



Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)

EL-WINDOW-08

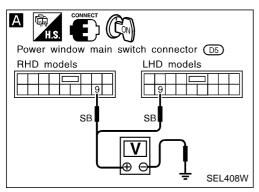


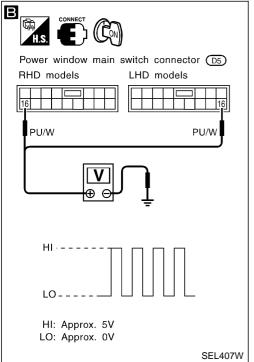
Trouble Diagnoses/Without Interruption Detection Function

Symptom	Possible cause	Repair order
None of the power windows can be operated using any switch.	40A fusible link and circuit breaker-1 2. Grounds M1 and M54 3. Power window relay 4. Open/short in power window main switch circuit	 Check 40A fusible link (letter C, located in fusible link and fuse box) and circuit breaker-1, located in fuse block. Turn ignition switch "ON" and verify battery positive voltage is present at terminal T of power window main switch and terminal T of sub-switch. Check grounds M1 and M54. Check power window relay. Check harness between power window relay and power window main switch for open/short circuit.
Driver side power window cannot be operated but other windows can be operated.	Driver side power window regulator circuit Driver side power window regulator	Check harness between power window main switch and power window regulator for open or short circuit. Check driver side power window regulator.
One or some of power window except driver side power window cannot be operated.	Power window sub-switch Passenger side power window regulator Power window main switch Power window circuit	Check power window sub-switch. Check power window regulator of malfunctioning power window. Check power window main switch. Check harnesses between power window main switch and power window sub-switch for open/short circuit. Check harnesses between power window sub-switch and power window regulator for open/short circuit.
Passenger power window cannot be operated using power window main switch but can be operated by power window sub-switch.	Power window main switch	Check power window main switch.
Driver side power window auto function cannot be operated using power window main switch.	Power window main switch	Check power window main switch.

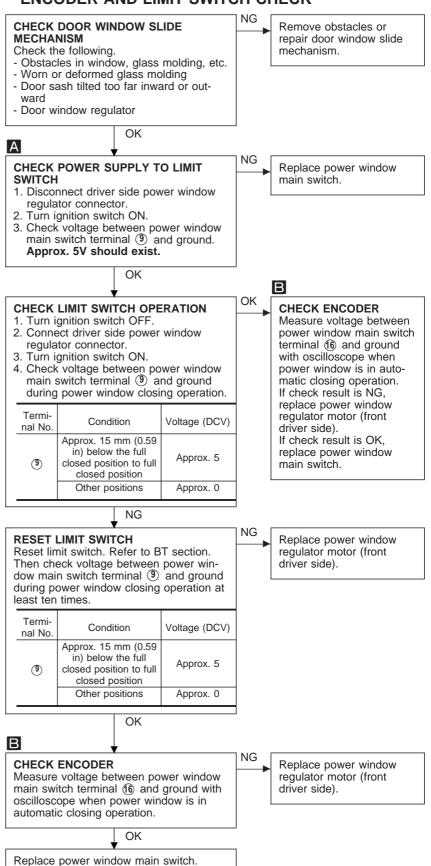
Trouble Diagnoses/With Interruption Detection Function

Symptom	Possible cause	Repair order
None of the power windows can be operated using any switch.		1. Check 10A fuse [No. 12], located in fuse block (J/B)], 40A fusible link (letter c , located in fuse and fusible link box).
	2. Ground circuit	2. Check ground circuit of power window main switch terminal <a>(9) .
	Power window main switch	3. Check power window main switch.
Driver side power window cannot be operated but other windows can be operated.	tor circuit 2. Driver side power window regula-	and driver side power window regulator for open or short circuit.
	tor 3. (M52) circuit breaker-2 4. (M52) circuit breaker-2 circuit	 Check M52 circuit breaker-2. Check harness between M52 circuit breaker-2 and 40A fusible link (letter c , located in fuse and fusible link box).
	5. Power window main switch circuit	 5-1. Check harness between power window main switch terminal (3) and 10A fuse [No. 12], located in fuse block (J/B)]. 5-2. Check harness between power window main switch terminal (5) and (MS2) circuit breaker.
One or more power windows except driver's side window cannot be operated.	Power window sub-switches Power window regulators Power window main switch Power window circuit	 Check power window sub-switch. Check power window regulator. Check power window main switch. Check harnesses between power window main switch and power window sub-switch for open/short circuit. Check harnesses between power window sub-switch and power window regulator for open/short circuit.
Power windows except driver's side window cannot be operated using power window main switch but can be operated by power window subswitch.	Power window main switch	Check power window main switch.
Driver side power window automatic operation does not function properly.		Check power window main switch. Check encoder and limit switch. (EL-3132)
Timer control for supplying power after turning ignition switch to "OFF" does not operate properly. (Except models for Europe)	Driver side door switch circuit	 Check harness between driver side door switch and power window main switch. Check driver side door switch. Check ignition switch ON signal circuit to power window main switch. Check power window main switch.





Trouble Diagnoses/With Interruption Detection Function (Cont'd) ENCODER AND LIMIT SWITCH CHECK

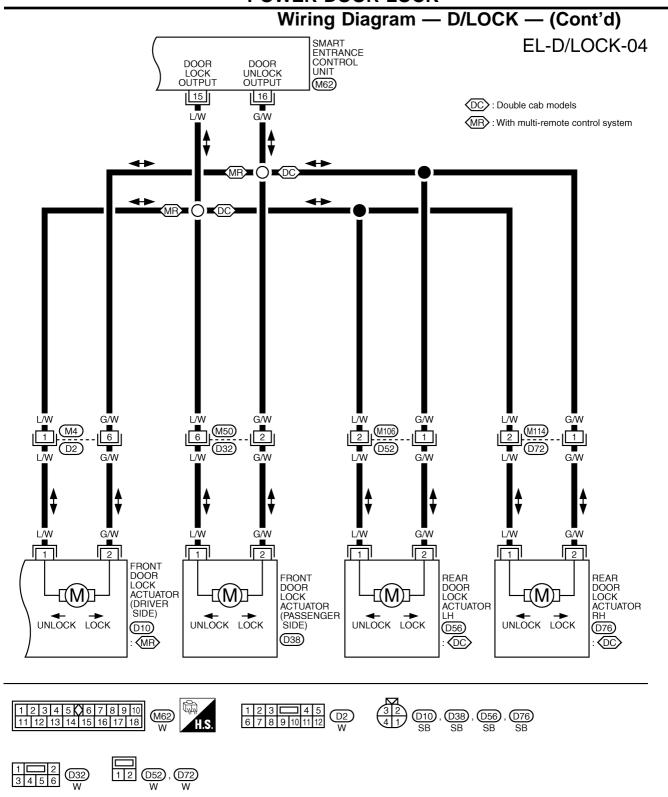


Wiring Diagram — D/LOCK — EL-D/LOCK-03 BATTERY Refer to EL-POWER. 40A С FUSE BLOCK (CIRCUIT BREAKER-1) MR : With multi-remote control system (M5) M12, M14 OM : Without multi-remote control system W/B 7 **G**/Y G/Y 11 BAT SMART ENTRANCE **CONTROL UNIT** CENTRAL-CENTRAL-(M62) IZED SW (LOCK) IZED SW (UNLOCK) CONDITION GND 18 5 2 4 G/Y R/B Y/B (M3) 13 ○ ■MR (D1) □ **M**B R/B 15 **■**MR <u>M3</u> 14 R/B (D1 Y/B G/Y FRONT DOOR LOCK ACTUATOR 18 17 2 POWER WINDOW MAIN SWITCH (DOOR LOCK AND UNLOCK SWITCH) LOCK KNOB LOCKED LOCKED DRIVER SIDE SWITCH UN-UN-UNLOCK LOCKED LOCKED LOCK \bigcirc 8 (UNLOCK SENSOR) OM) (D13) 19 **(**110) 4 (MR) B 7 7 **1 D**2 R/B (M3) $\overline{M4}$ 5 6 MULTI-REMOTE CONTROL LOCK **UNLOCK** REQUEST REQUEST UNIT (M58) В (MR) (M54) M1Refer to last page (Foldout page). (M5), (E101) 1 2 3 7 8 M₁₂ M14) i 9 10 4 5 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 5 = 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 (M62)

(D2)

(D8)

POWER DOOR LOCK



System Description

FUNCTION

Multi-remote control system has the following function.

- Door lock
- Door unlock
- Hazard reminder

LOCK OPERATION

When the LOCK signal is input to multi-remote control unit (the antenna of the system is combined with multi-remote control unit), ground is supplied

- through multi-remote control unit terminal (5)
- to smart entrance control unit terminal 4.

Then smart entrance control unit supplies power and ground to each door lock actuator.

UNLOCK OPERATION

When the UNLOCK signal is input to multi-remote control unit (the antenna of the system is combined with multi-remote control unit), ground is supplied

- through multi-remote control unit terminal 6
- to smart entrance control unit terminal (5).

Then smart entrance control unit supplies power and ground to each door lock actuator.

HAZARD REMINDER

When the doors are locked or unlocked (signal from driver's door unlock sensor) by multi-remote controller, power is supplied

- through multi-remote control unit terminals (3) and (8)
- to the hazard warning lamps

Then hazard warning lamp flash as follows.

- Lock operation: Flash once
- Unlock operation: Flash twice

MULTI-REMOTE CONTROLLER ID CODE ENTRY

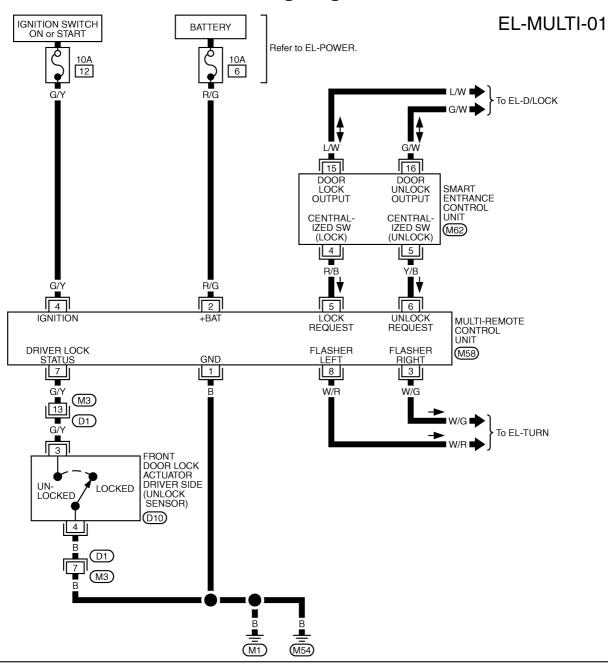
A maximum of four remote controllers can be entered. Any attempt to enter a remote controller will erase all ID codes previously entered. Therefore, be sure to receive all remote controllers from the vehicle owner when any ID code entry is performed.

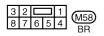
To enter ID code entry, the following signals must be input to the multi-remote control unit.

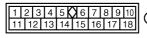
- Ignition switch ON signal
- Battery power supply
- Signal from remote controller

For detailed procedure, refer to "ID Code Entry Procedure" in EL-3139.

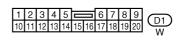
Wiring Diagram — MULTI —













Trouble Diagnoses

SYMPTOM CHART

Symptom	Possible cause	Diagnoses/service order
No doors can be locked or un- locked by remote control opera-	Power door lock system Remote controller battery	 Check power door lock operation. Check remote controller battery. Refer to EL-3140.
tion. (See NOTE.)	3. Door lock/unlock circuit	Check harness for open or short between multi-remote control unit and smart entrance control unit.
	Ignition power supply circuit for multi-remote control unit	4. Make sure battery voltage is present at terminal 4 of multi-remote control unit while ignition switch is in IGN position.
	Power supply circuit for multi-re- mote control unit	5. Make sure battery voltage is present at terminal (2) of multi-remote control unit.
		Check continuity between terminal ① of multi-remote control unit and ground.
	7. Remote controller	7. Replace remote controller. Refer to EL-3139.
Hazard reminder does not operate properly.	Hazard reminder output to hazard warning lamps	Check hazard reminder output to hazard warning lamps at terminals ③ and ⑧ of multi-remote control unit.
	2. Hazard reminder circuit	Check the harness for open or short between hazard warning lamps and multi-remote control unit.
	3. Driver's door unlock sensor	Check driver's door unlock sensor signal at terminal of multi-remote control unit.
The new ID of remote controller cannot be entered.	Remote controller battery Ignition power supply circuit for multi-remote control unit	 Check remote controller battery. Refer to EL-3140. Make sure battery voltage is present at terminal 4 of multi-remote control unit while ignition switch is in IGN position.
	3. Driver's door unlock sensor	3. Check driver's door unlock sensor signal at terminal of of multi-remote control unit.
	4. Remote controller	4. Replace remote controller. Refer to EL-3139.

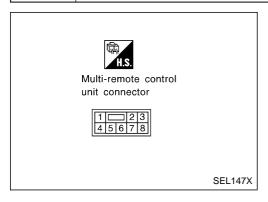
Refer to "MULTI-REMOTE CONTROL UNIT INSPECTION TABLE" on next page to check the control unit signals.

NOTE:

• The lock operation of multi-remote control system does not activate with the ignition key ON position.

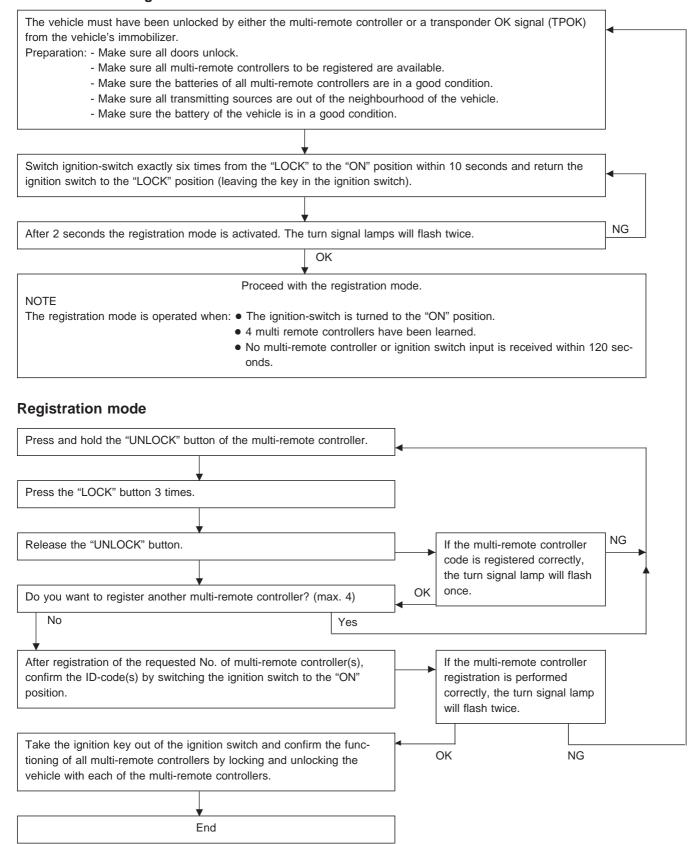
Trouble Diagnoses (Cont'd) MULTI-REMOTE CONTROL UNIT INSPECTION TABLE

Terminal No.	Connections	Condition		Voltage (V) (approximate values)
1	Ground	_		_
2	Power source (BAT)	_		12
3	Hazard warning lamp RH	Remote controller LOCK/UNLOCK button is pushed (All doors are closed and key is not in ignition key cylinder.)		12
		Other than above condition		0
	Innition normal comple	Ignition switch	OFF	0
4	Ignition power supply		ON or START	12
5	Lock signal	Remote controller LOCK button is pushed (All doors are closed and key is not in ignition key cylinder.)		0
		Other than above condition		5
6	Unlock signal	Remote controller UNLOCK button is pushed (Key is not in ignition key cylinder.)		0
	-	Other than above condition		5
7	Deixan eide de en unla de en en	Driver side door	Locked	5
	Driver side door unlock sensor		Unlocked	0
8	Hazard warning lamp LH	Remote controller LOCK/UNLOCK button is pushed (All doors are closed and key is not in ignition key cylinder.)		12
		Other than above condition		0



ID Code Entry Procedure

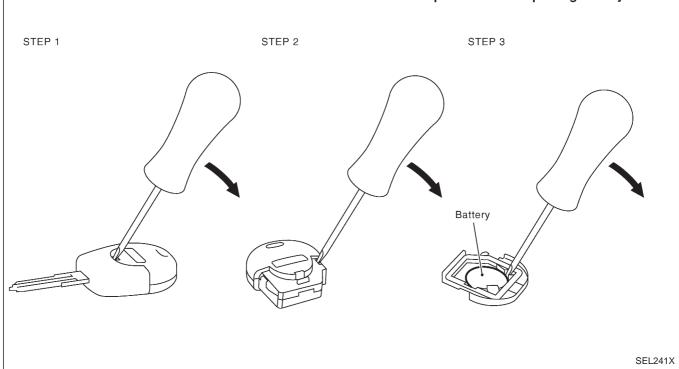
Activation of the registration mode:



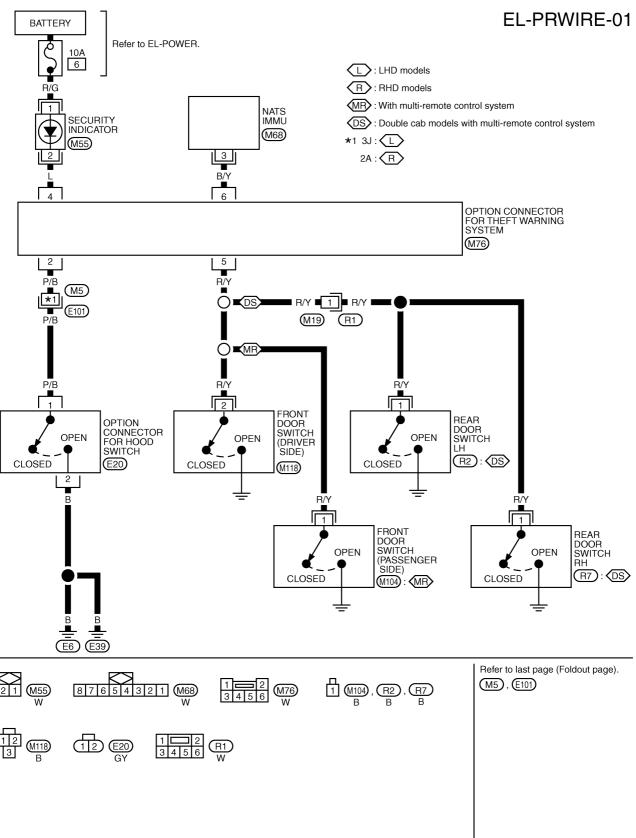
Remote Controller Battery Replacement

NOTE:

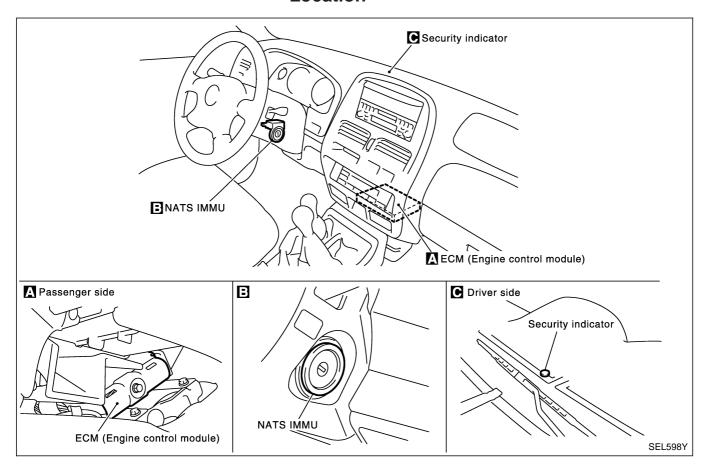
- Be careful not to touch the circuit board or battery terminal.
- The remote controller is water-resistant. However, if it does get wet, immediately wipe it dry.
- Push the remote controller button two or three times to check its operation after replacing battery.



Wiring Diagram — PRWIRE —



Component Parts and Harness Connector Location



NOTE:

If customer reports a "No Start" condition, request ALL KEYS to be brought to the Dealer is case of a NATS malfunction.

NATS (Nissan Anti-Theft System)

System Description

NATS has the following immobilizer functions:

- Since only NATS ignition keys, whose ID nos. have been registered into the ECM and IMMU of NATS, allow the engine to run, operation of a stolen vehicle without a NATS registered key is prevented by NATS.
 - That is to say, NATS will immobilize the engine if someone tries to start it without the registered key of NATS.
- This version of NATS has dongle unit to improve its anti-theft performance (RHD models for Europe). Dongle unit has its own ID which is registered into NATS IMMU. So it dongle unit is replaced, initialization must be carried out.
- When malfunction of dongle unit is detected:
 - The security indicator lamp illuminates for about 15 minutes after ignition switch is turned to ON.
 - When dongle unit has a malfunction and the indicator lamp is illuminated, engine can not be started. However, engine can be started only one time when security indicator turns off in about 15 minutes after ignition switch is turned to ON.
- Both of the originally supplied ignition key IDs have been NATS registered.
 If requested by the vehicle owner, a maximum of five key IDs can be registered into the NATS components
- The NATS security indicator (NATS security ind.) blinks when the ignition switch is in "OFF" or "ACC" position. Therefore, NATS warns outsiders that the vehicle is equipped with the anti-theft system.
- When NATS detects trouble, the security indicator lamp lights up as follows.

Condition	With Dongle	Without Dongle	
IGN ON and	Security Indicator	Security Indicator	
NATS malfunction (except dongle unit) is detected	Staying ON after ignition switch is turned ON	Staying ON	
Only malfunction of dongle unit is detected.	Staying ON for about 15 minutes after ignition switch is turned ON.	_	
Malfunction of NATS and engine related parts are detected	Staying ON after ignition switch is turned ON	Staying ON	
Just after initialization of NATS	6 times blinking	_	

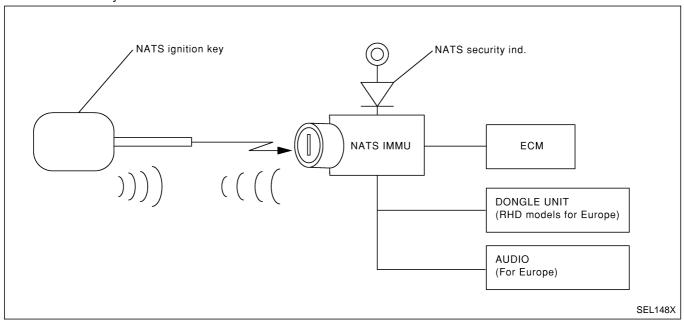
- NATS trouble diagnoses, system initialization and additional registration of other NATS ignition key IDs must be carried out using CONSULT-II hardware and CONSULT-II NATS software.
 Regarding the procedures of NATS initialization and NATS ignition key ID registration, refer to CONSULT-II operation manual, NATS.
- When servicing a malfunction of the NATS (indicated by lighting up of security Indicator Lamp) or registering another NATS ignition key ID no., it is necessary to re-register original key identification. Therefore, be sure to receive ALL KEYS from vehicle owner.

NATS (Nissan Anti-Theft System)

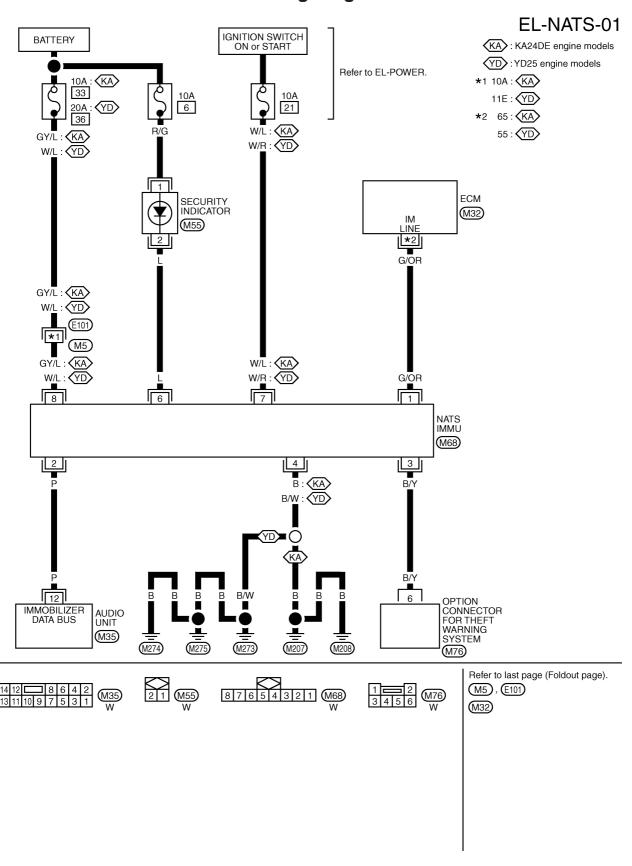
System Composition

The immobilizer function of the NATS consists of the following:

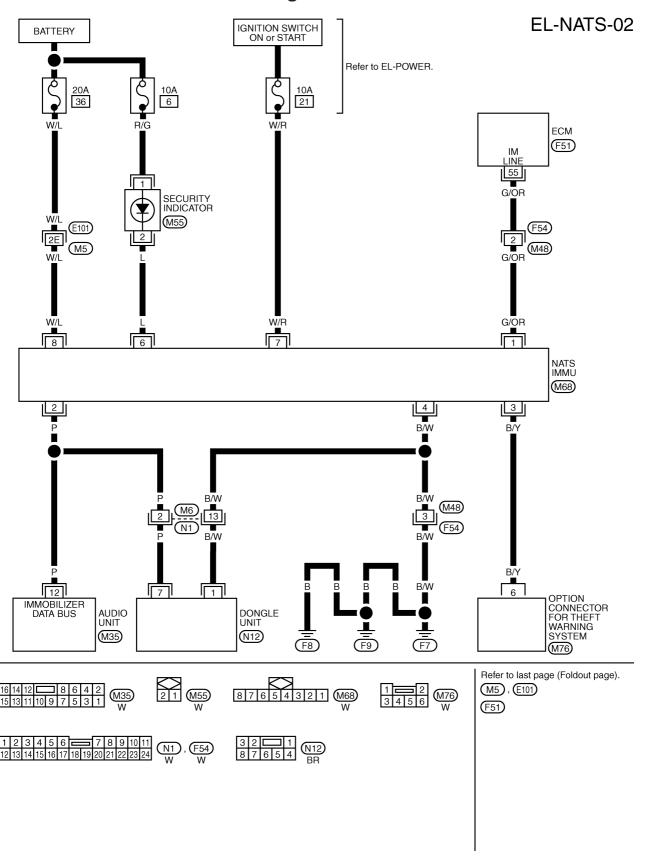
- NATS ignition key
- NATS immobilizer control unit (NATS IMMU), located in the ignition key cylinder
- Engine control module (ECM)
- Dongle unit (RHD models for Europe)
- NATS security indicator

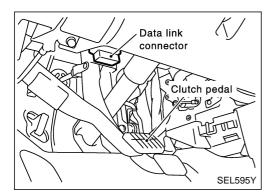


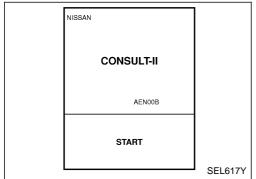
Wiring Diagram — NATS —/LHD Models

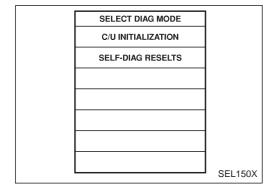


Wiring Diagram — NATS —/RHD Diesel Engine Models









CONSULT-II

CONSULT-II INSPECTION PROCEDURE

- 1. Turn ignition switch OFF.
- 2. Insert NATS program card into CONSULT-II.

Program card AEN00A/B

- 3. Connect CONSULT-II to Data link connector which is located behind the fuse box cover.
- 4. Turn ignition switch ON.
- 5. Touch "START".

6. Perform each diagnostic test mode according to each service procedure.

For further information, see the CONSULT-II Operation Manual, NATS.

CONSULT-II (Cont'd)

CONSULT-II DIAGNOSTIC TEST MODE FUNCTION

CONSULT-II DIAGNOSTIC TEST MODE	Description	
C/U INITIALIZATION	When replacing any of the following components, C/U initialization is necessary. [NATS ignition key/IMMU/ECM/Dongle unit]	
SELF-DIAG RESULTS	F-DIAG RESULTS Detected items (screen terms) are as shown in the chart below.	

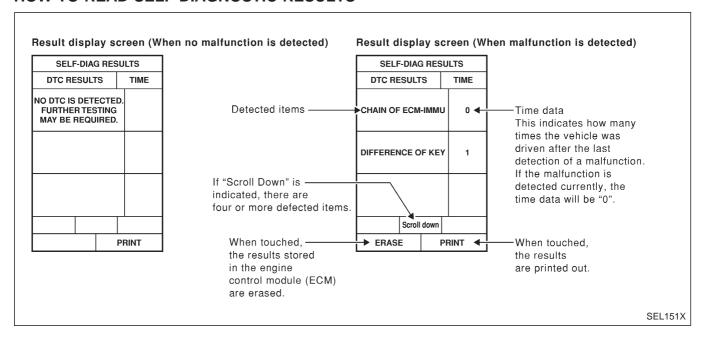
NOTE:

When any initialization is performed, all ID previously registered will be erased. So all NATS ignition keys must be registered again.

The engine cannot be started with an unregistered key. In this case, the system may show "DIFFER-ENCE OF KEY" or "LOCK MODE" as a self-diagnostic result on the CONSULT-II screen.

When initialization is performed (for RHD models), security indicator will flash six times to demonstrate recognition of dongle unit ID.

HOW TO READ SELF-DIAGNOSTIC RESULTS

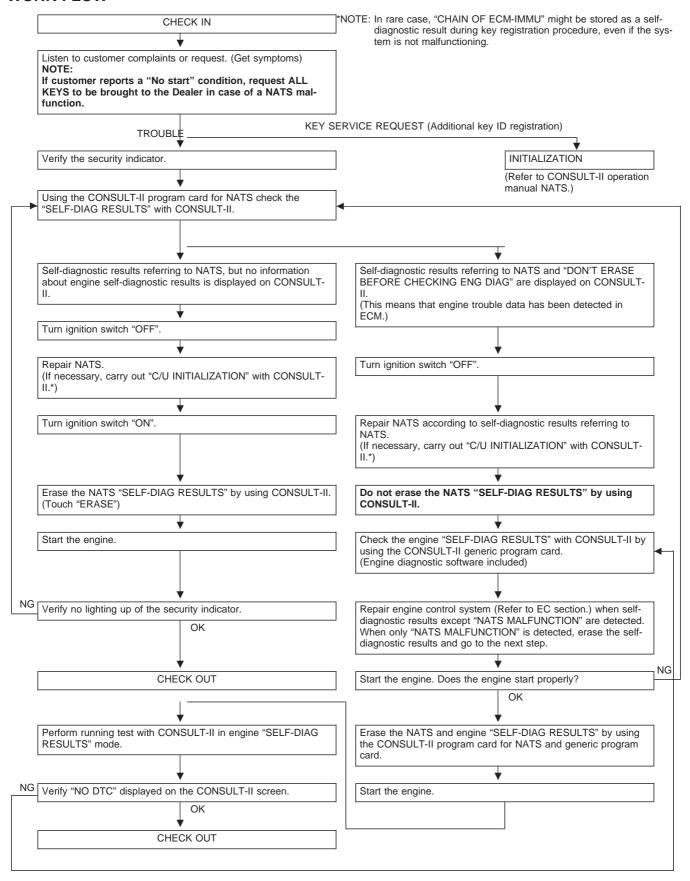


SELF-DIAGNOSTIC RESULTS ITEM CHART

Detected items (Screen terms)	Description	Reference page
ECM INT CIRC-IMMU	The malfunction of ECM internal circuit of IMMU communication line is detected.	EL-3152
CHAIN OF ECM-IMMU	Communication impossible between ECM and IMMU. (In rare case, "CHAIN OF ECM-IMMU" might be stored during key registration procedure, even if the system is not malfunctioning.)	EL-3153
DIFFERENCE OF KEY	IMMU can receive the key ID signal but the result of ID verification between key ID and IMMU is NG.	EL-3155
CHAIN OF IMMU-KEY	IMMU cannot receive the key ID signal. Otherwise, the registered ID signal from dongle unit cannot be received when the IMMU requests the ID.	EL-3156
ID DISCORD, IMM-ECM	The result of ID verification between IMMU and ECM is NG. System initialization is required.	EL-3157
DON'T ERASE BEFORE CHECK- ING ENG DIAG	Engine trouble data and NATS trouble data have been detected in ECM.	EL-3149
LOCK MODE	When the starting operation is carried out 5 or more times consecutively under the following conditions, NATS will shift the mode to one which prevents the engine from being started. • unregistered ignition key is used • IMMU or ECM malfunctioning	EL-3158

Trouble Diagnoses

WORK FLOW



NATS (Nissan Anti-Theft System) Trouble Diagnoses (Cont'd)

SYMPTOM MATRIX CHART 1 (Self-diagnosis related item)

SYMPTOM	Displayed "SELF-DIAG RESULTS" on CONSULT-II screen.	DIAGNOSTIC PROCE- DURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO OF ILLUSTRATION ON DIAGNOSTIC SYSTEM DIAGRAM
 Security indicator lighting up* Engine does not start 	ECM INT CIRC-IMMU	PROCEDURE 1 (EL-3152)	ECM	В
	CHAIN OF ECM-IMMU	PROCEDURE 2 (EL-3153)	In rare case, "CHAIN OF ECM-IMMU might be stored during key registration procedure, even if the sys- tem is not malfunctioning.	_
			Open circuit in battery voltage line of IMMU circuit	C1
			Open circuit in ignition line of IMMU circuit	C2
			Open circuit in ground line of IMMU circuit	C3
			Open circuit in communication line between IMMU and ECM	C4
			Short circuit between IMMU and ECM communication line and battery voltage line	C4
			Short circuit between IMMU and ECM communication line and ground line	C4
			ECM	В
			IMMU	А
	DIFFERENCE OF VEV	PROCEDURE 3	Unregistered key	D
	DIFFERENCE OF KEY	(EL-3155)	IMMU	А
	CHAIN OF IMMU-KEY	PROCEDURE 4 (EL-3156)	Malfunction of key ID chip	Е
			IMMU	А
			Open circuit in ground line of dongle unit circuit	C6
			Open or short circuit in communication line between IMMU and dongle unit	C5
			Dongle unit	G
 Security indicator lighting up* Engine hard to start 	ID DISCORD, IMM-ECM	PROCEDURE 5 (EL-3157)	System initialization has not yet been completed.	F
			ECM	В
	LOCK MODE	PROCEDURE 6 (EL-3158)	LOCK MODE	D

^{*:} When NATS detects trouble, the security indicator lights up while ignition key is in the "ON" position.

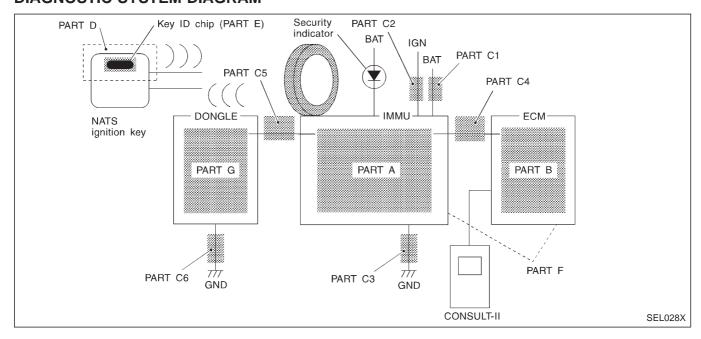
*: When the vehicle is equipped with dongle unit, the security indicator blinks 6 times just after ignition switch is turned to ON. Then the security indicator will light up while ignition key is in the ON position.

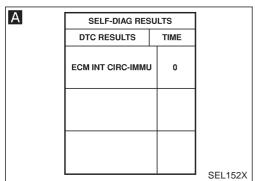
Trouble Diagnoses (Cont'd)

SYMPTOM MATRIX CHART 2 (Non self-diagnosis related item)

SYMPTOM	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON DIAGNOSTIC SYSTEM DIAGRAM
Security ind. does not light up.	PROCEDURE 7 (EL-3159)	Security ind.	_
		Open circuit between Fuse and NATS IMMU	_
		Continuation of initialization mode	_
		NATS IMMU	A
Security ind. does not blink just after initialization even if the vehicle is equipped with dongle unit. Security ind. does not blink just after ignition switch is turned to ON when some malfunction related to NATS is detected even if the vehicle is equipped with dongle unit.	PROCEDURE 8 (EL-3160)	NATS might be initialized without connecting dongle unit properly.	_
		Open circuit in ground line of dongle unit circuit	C6
		Open or short circuit in communication line between IMMU and dongle unit	C5
		Dongle unit	G

DIAGNOSTIC SYSTEM DIAGRAM





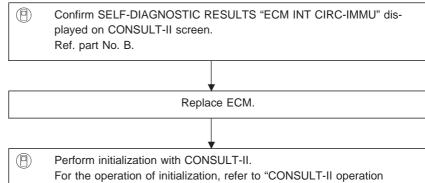
Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 1

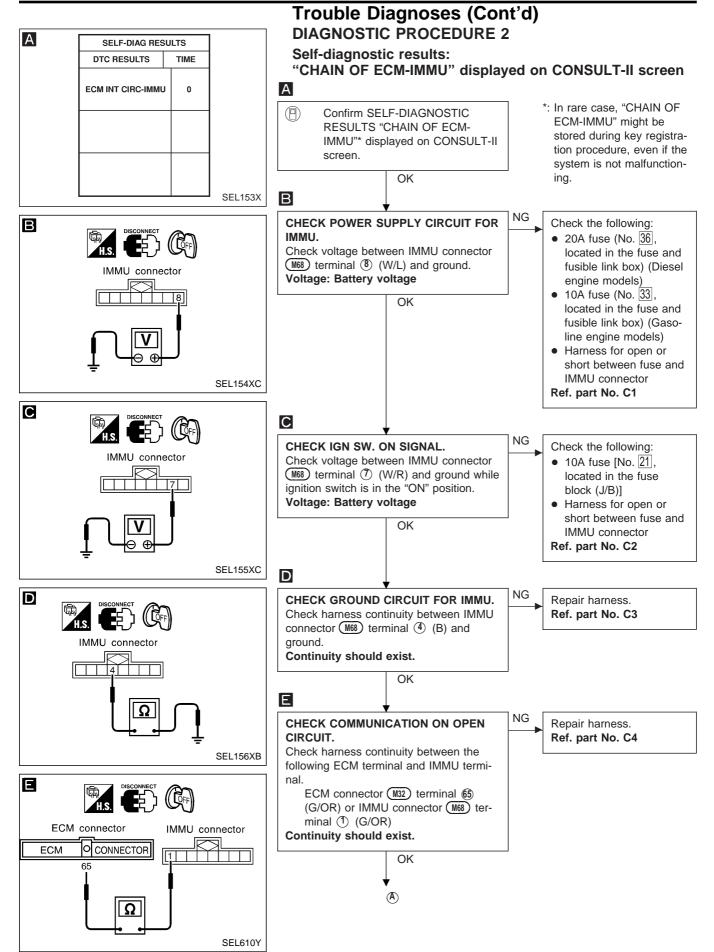
Self-diagnostic results:

manual NATS".

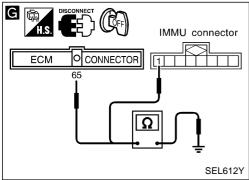
"ECM INT CIRC-IMMU" displayed on CONSULT-II screen

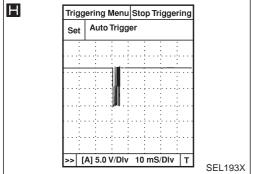
Α



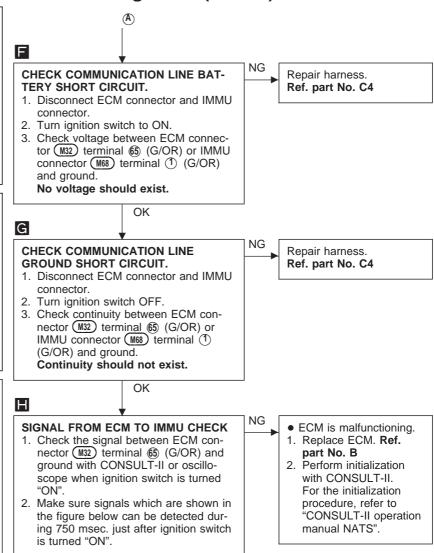


IMMU connector ECM O CONNECTOR 65 SEL611Y



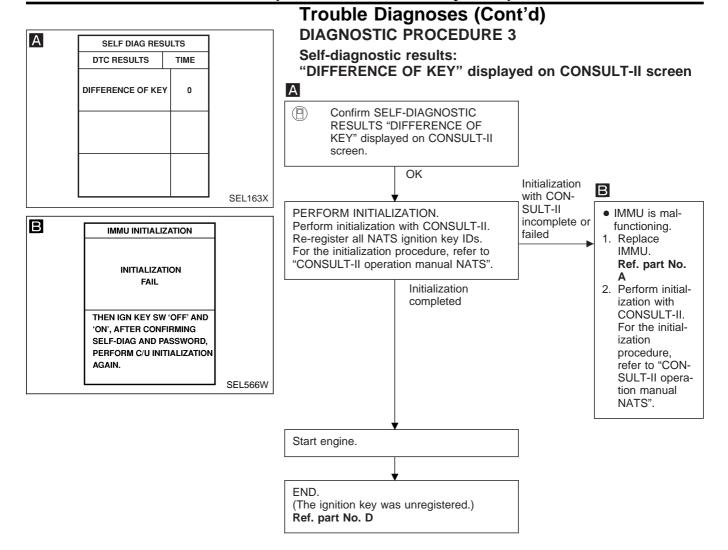


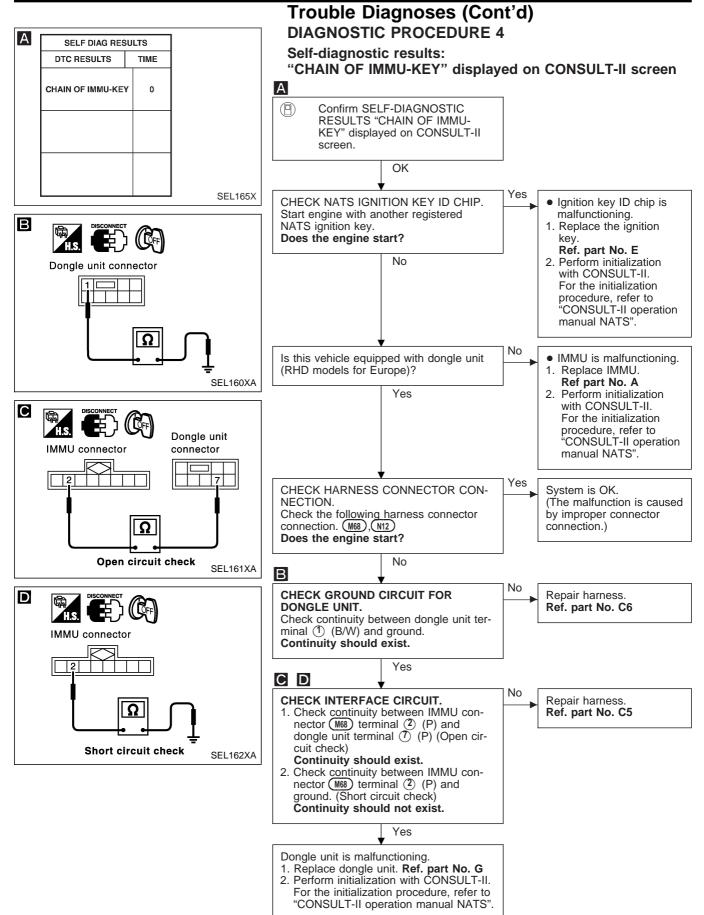
Trouble Diagnoses (Cont'd)

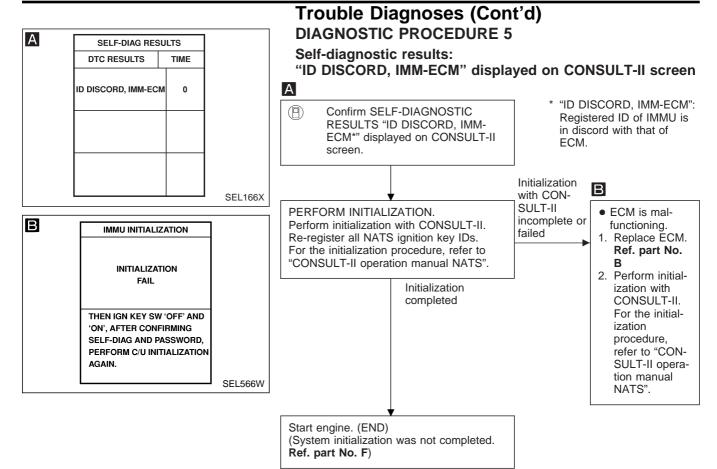


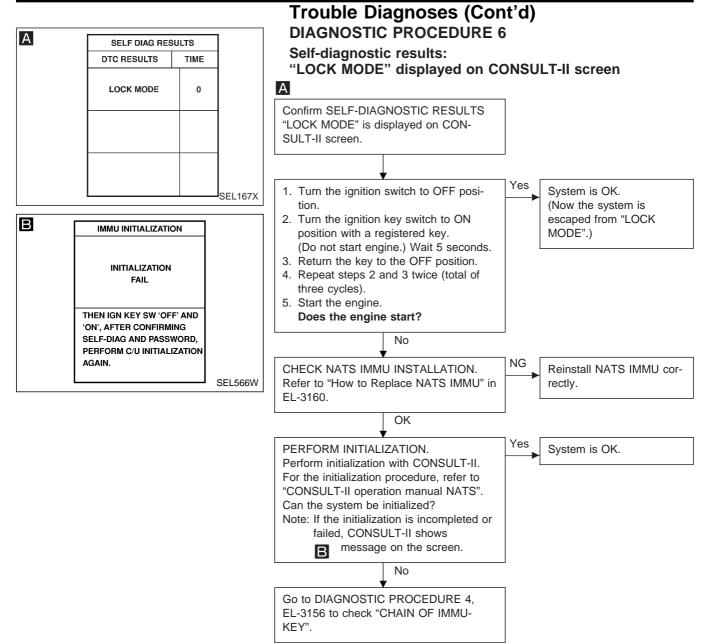
- IMMU is malfunctioning.
- 1. Replace IMMU. Ref. part No. A
- Perform initialization with CONSULT-II. For the initialization procedure, refer to "CONSULT-II operation manual NATS".

OK

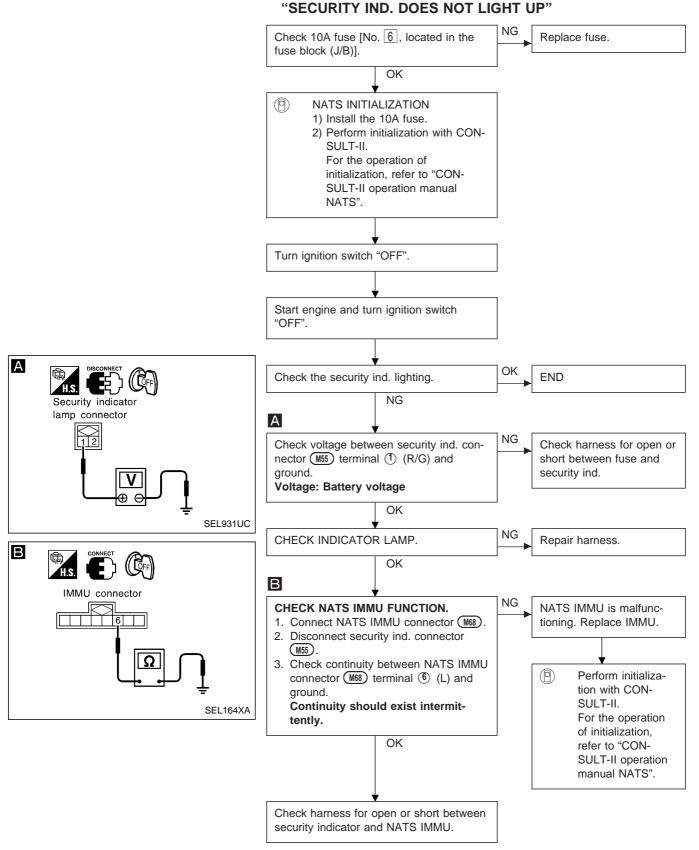


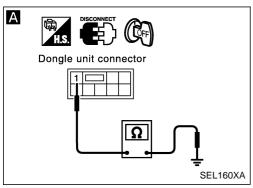


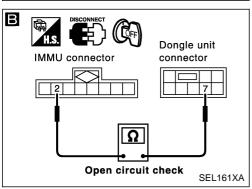


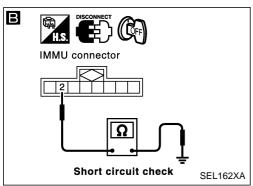


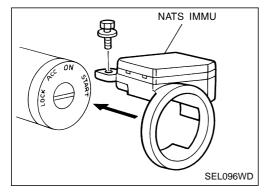
Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 7



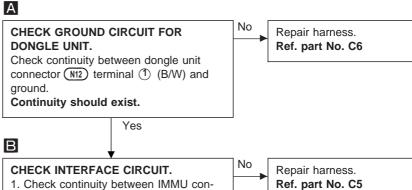








Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 8



1. Check continuity between IMMU connector (M68) terminal (2) (P) and dongle unit connector (N12) terminal (7) (P).

(Open circuit check)

Continuity should exist.

Check continuity between IMMU connector M68 terminal (2) (P) and ground. (Short circuit check)
 Continuity should exist.

Yes

Dongle unit is malfunctioning.

Replace dongle unit.
 Ref. part No. G

Perform initialization with CONSULT-II. For the initialization procedure, refer to "CONSULT-II operation manual NATS".

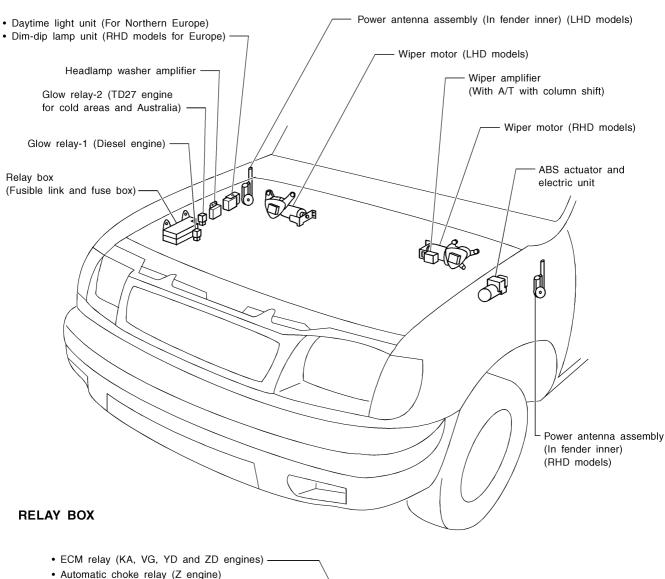
How to Replace NATS IMMU

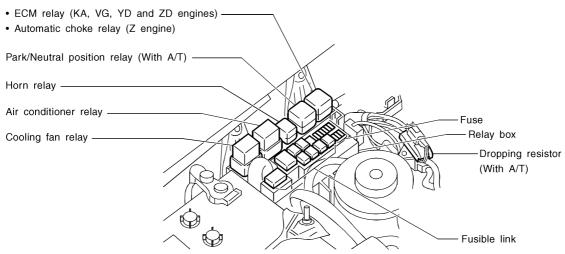
NOTE

 If NATS IMMU is not installed correctly, NATS system will not operate properly and SELF-DIAG RESULTS on CONSULT-II screen will show "LOCK MODE".

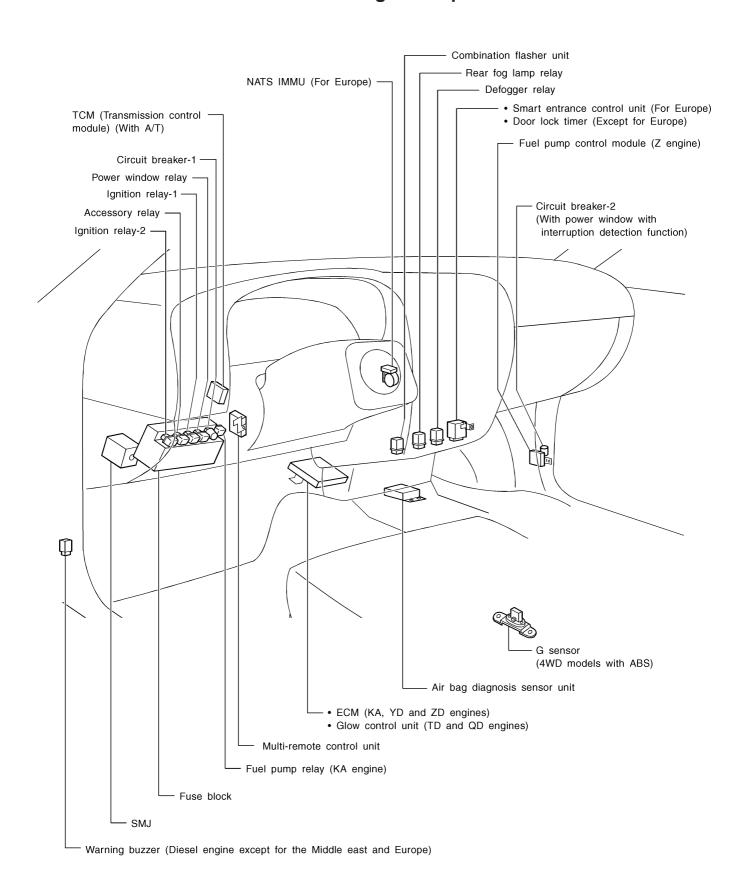
LOCATION OF ELECTRICAL UNITS

Engine Compartment



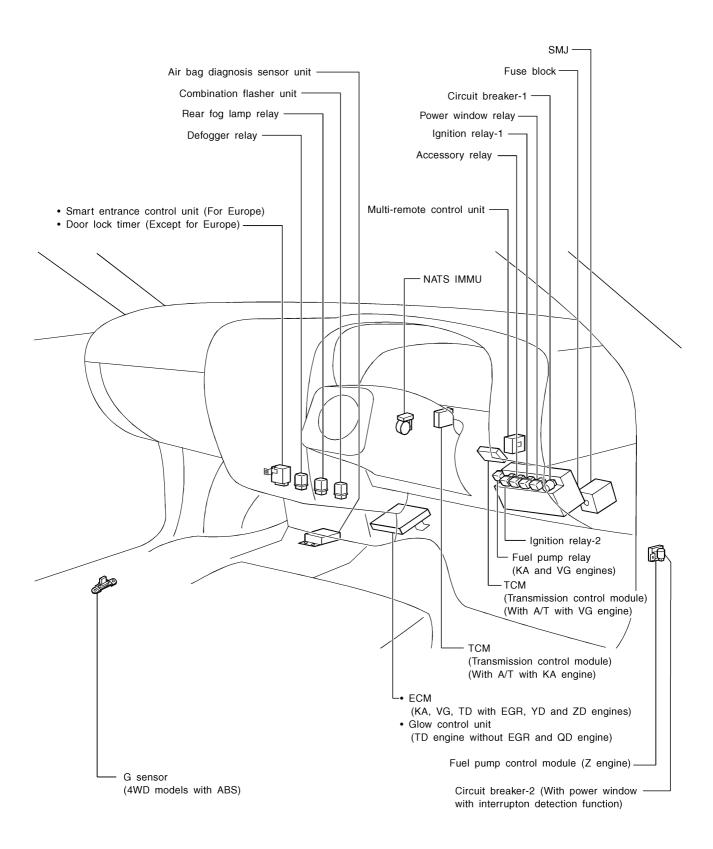


Passenger Compartment



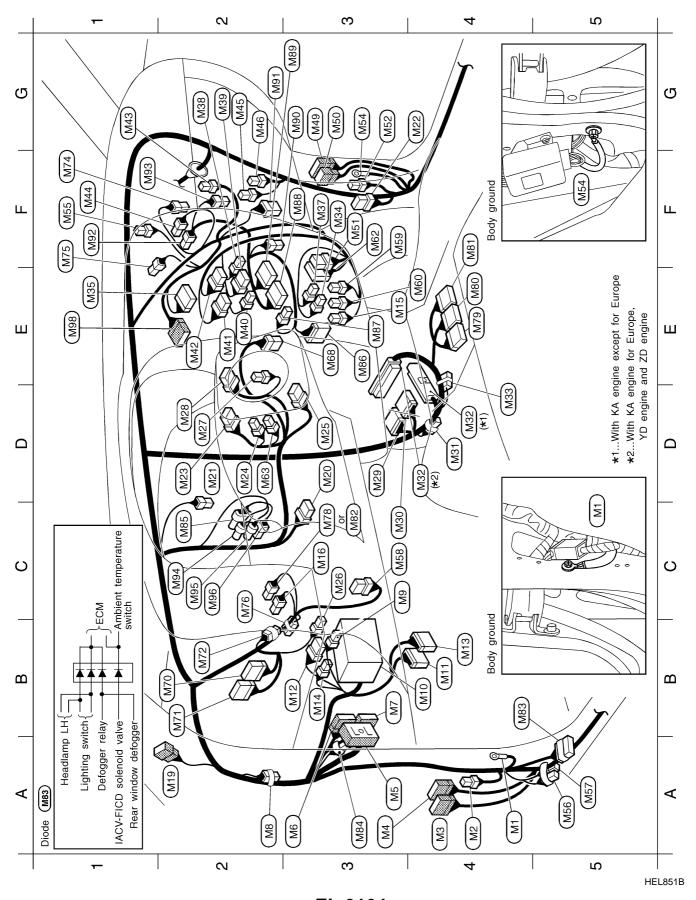
Passenger Compartment (Cont'd)

RHD MODELS



Main Harness

INSTRUMENT PANEL — LHD MODELS



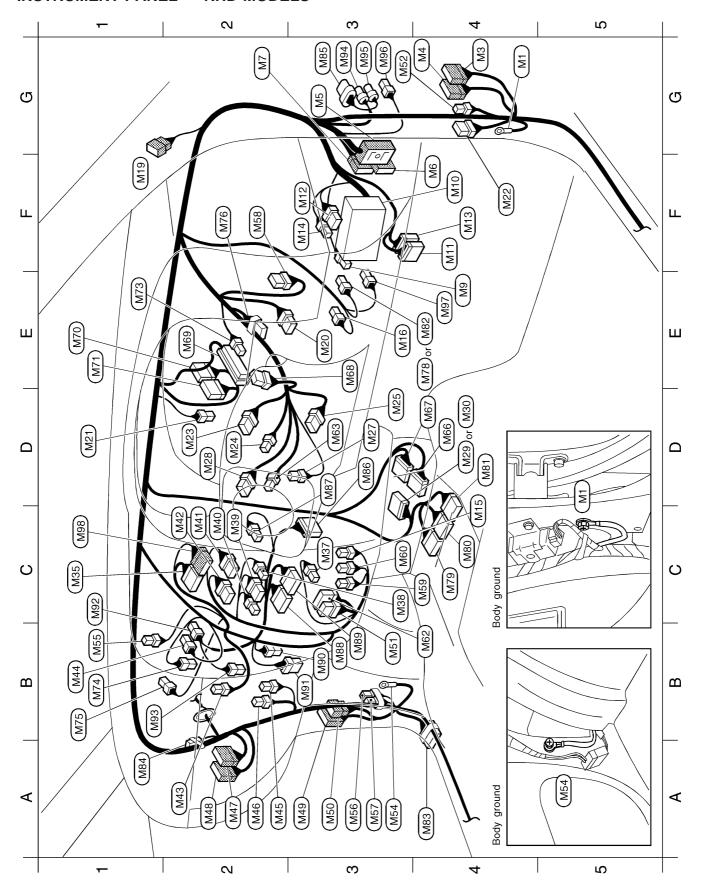
EL-3164

Main Harness (Cont'd)

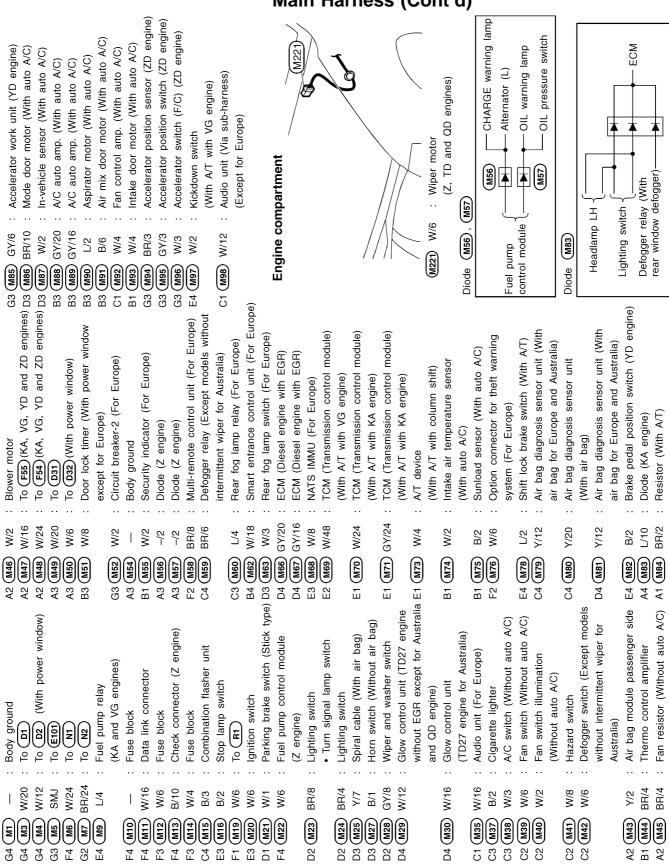
		Maiı	n Harness (Cont'd)	
 : Intake air temperature sensor (With auto A/C) : Sunload sensor (With auto A/C) : Option connector (For Europe) (For theft warning system) : Shift lock brake switch (With A/T) : Air bag diagnosis sensor unit 			Har mix door motor (With auto A/C) Fan control amp. (With auto A/C) Intake door motor (With auto A/C) Accelerator position sensor (ZD30) Accelerator position switch (ZD30) Accelerator switch (F/C) (ZD30) Audio unit (Via sub-harness) (Except for Europe)	MS7 (M56) — CHARGE warning lamp (M57) — Alternator (L) (M57) — OIL warning lamp (M57) — OIL warning lamp
F1 (M74) W/2 F1 (M75) B/2 C2 (M76) W/6 C3 (M78) L/2 E4 (M79) Y/12	E4 (M80) Y/20 F4 (M81) Y/12 C3 (M82) B/2	B4 M883 C2 M84 F C3 M86 B C3 M88 C C3 M88 C C3 M88 C C3 M88 C	C2 M91 B/6 F1 M92 W/4 F1 M93 W/4 C2 M94 BR/3 C2 M95 GY/3 C2 M98 W/12 E1 M98 W/12	FILTER warning lamp Diode (MSG), (M57) Fuel pump control module (MB7)
: Cigarette lighter : A/C switch (Without auto A/C) : Fan switch (Without auto A/C) : Fan switch illumination (Without auto A/C) : Hazard switch : Defogger switch (Except for the	Middle East except Single cab with TD engine) Front passenger air bag module Thermo control amplifier Fan resistor (Without auto A/C)	Blower motor To bas (With power window) Door lock timer (With power window except for Europe) Circuit breaker-2 (For Europe and with gasoline engine for the Middle East)	Body ground Security indicator (With NATS) Diode (Z24S) Diode (Z24S) Multi-remote control unit (For Europe) Defogger relay (Except for the Middle East) Rear fog lamp relay (For Europe and with KA engine except for the Middle East) Smart entrance control unit (For Europe)	: Rear fog lamp switch (For Europe and with KA engine except for the Middle East) : NATS IMMU (For Europe) : TCM (Transmission control module) (With A/T) : TCM (Transmission control module) (With A/T) : Joint connector-2 (With A/T)
M37 B/2 M38 W/3 M39 W/6 M40 W/2 M41 W/8				M68 W/8 M70 W/24 M77 GY/24 M72 -/6
Body ground Warning buzzer (Diesel engine G2 (except for Europe and the G2 (Middle East) To D1 To D2 (With power window) E2 (control of E10))) Diesel engine except for G1 and the Middle East) F1 mp relay (KA engine) G2	G G G G G G G G G G G G G G G G G G G	ritch (Stick type) F1 b1 module (Z24S) A5 Turn signal A5 Turn signal C3 n air bag) (With AT) E4 nout air bag) sr switch F3 out for cold areas	and QD engine) Glow control unit (TD engine for cold areas) Loint connector-1 (KA engine) ECM (KA, YD and ZD engines) Joint connector-3 (KA engine for Europe) Ashtray illumination (With gasoline engine for the Middle East) Audio unit (For Europe)
M/20 W/20 SMJ			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(8) W/16 SMJ (9) W/16 W/10 W/10 W/10
A4 MA2 A3 MS			D3 (M22) D4 (M23) D5 (M23) D5 (M23) D6 (M23) D7 (M23) D8 (M23) D9 (M23)	C3 (M30) D4 (M31) D4 (M32) D4 (M32) F3 (M34)

Main Harness (Cont'd)

INSTRUMENT PANEL — RHD MODELS

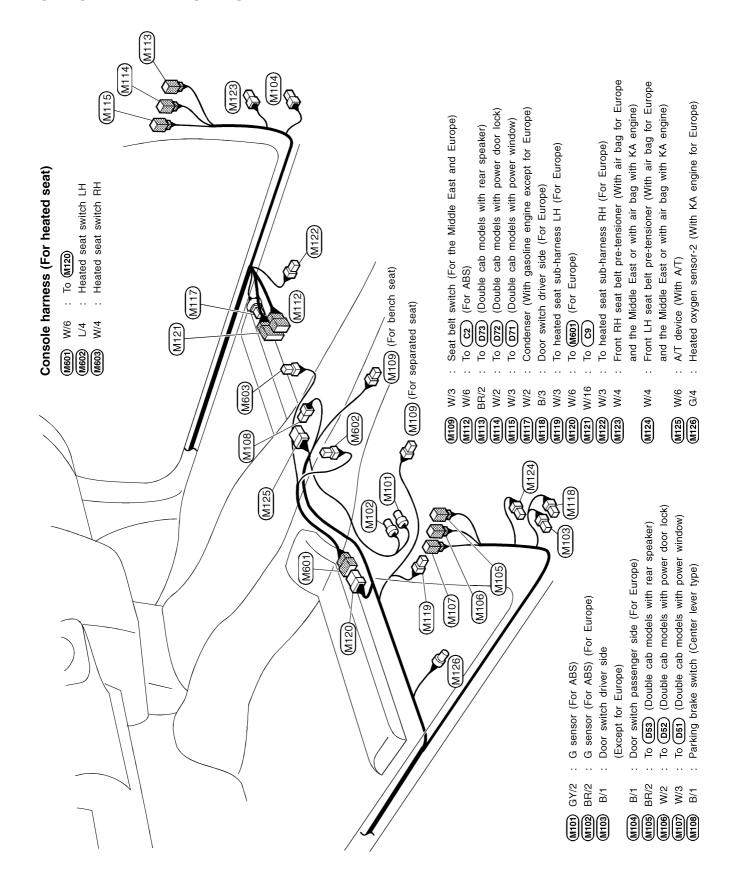


Main Harness (Cont'd)

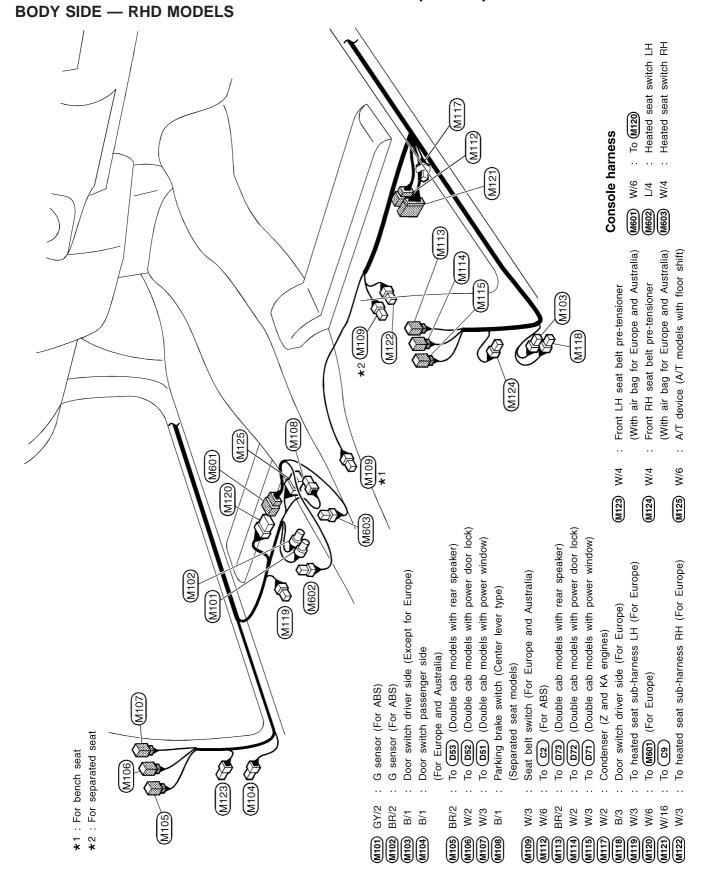


Main Harness (Cont'd)

BODY SIDE — LHD MODELS

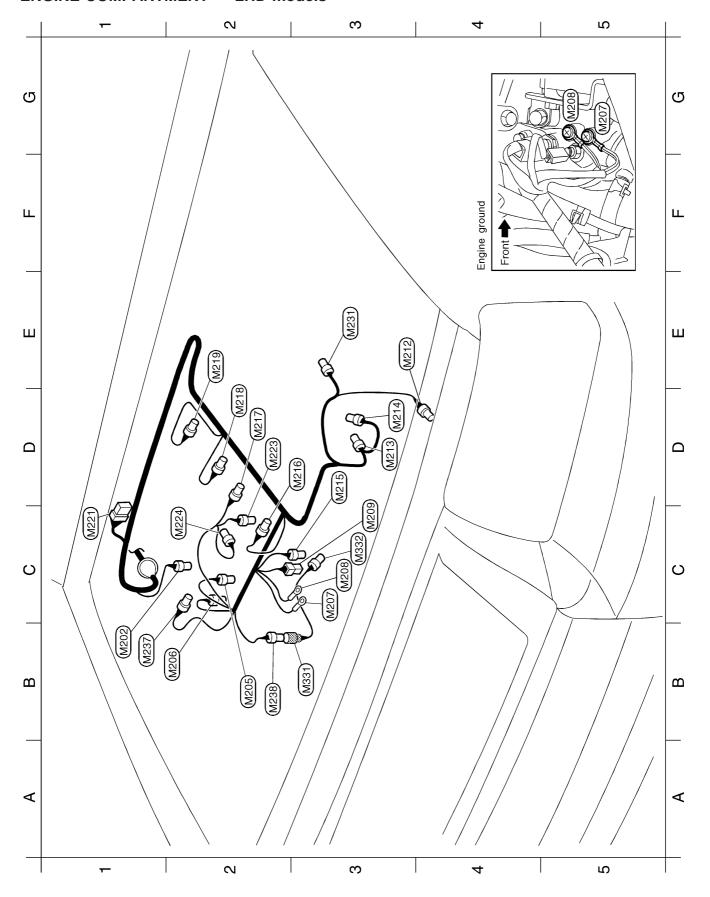


Main Harness (Cont'd)



Main Harness (Cont'd)

${\bf ENGINE\ COMPARTMENT-LHD\ models}$



Main Harness (Cont'd)

Sub-harness

EVAP canister purge control solenoid valve

Throttle position sensor Throttle position switch

GY/2 : To (M238) GY/2 : Knock sensor

B3 (M331) (C3 (M332) (

Thermal transmitter Engine ground Engine ground

Engine coolant temperature sensor Compressor Distributor

Injector No.1 Distributor B/1 B/1 GY/2 GY/6 GY/2

B/2 B/2 B/2 W/6

Injector No.3

Injector No.4

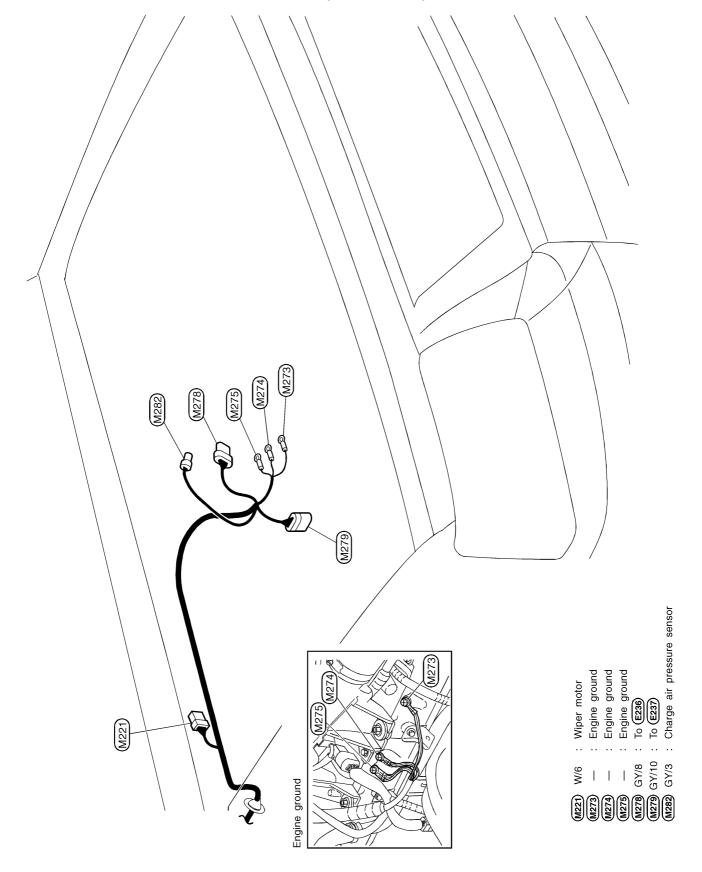
Injector No.2

BR/2

IACV-FICD solenoid valve Heated oxygen sensor 1 Mass air flow sensor IACV-AAC valve Wiper motor B 1 (MZG)
C 3 (MZG)
C 4 (MZZ)
C 6 (MZZ)
C 7 (MZZ)
C 7 (MZZ)
D 7 (MZZ)
D 8 (MZZ)
D 9 (MZZ)
D 1 (MZZ)
D 1 (MZZ)
D 1 (MZZ)
D 2 (MZZ)
D 2 (MZZ)
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D 9 (MZZ)
D 1 (MZZ)
D 2 (MZZ)
D 2 (MZZ)
D 3 (MZZ)
D 3 (MZZ)
D 4 (MZZ)
D 5 (MZZ)
D 6 (MZZ)
D 7 (MZZ)

Main Harness (Cont'd)

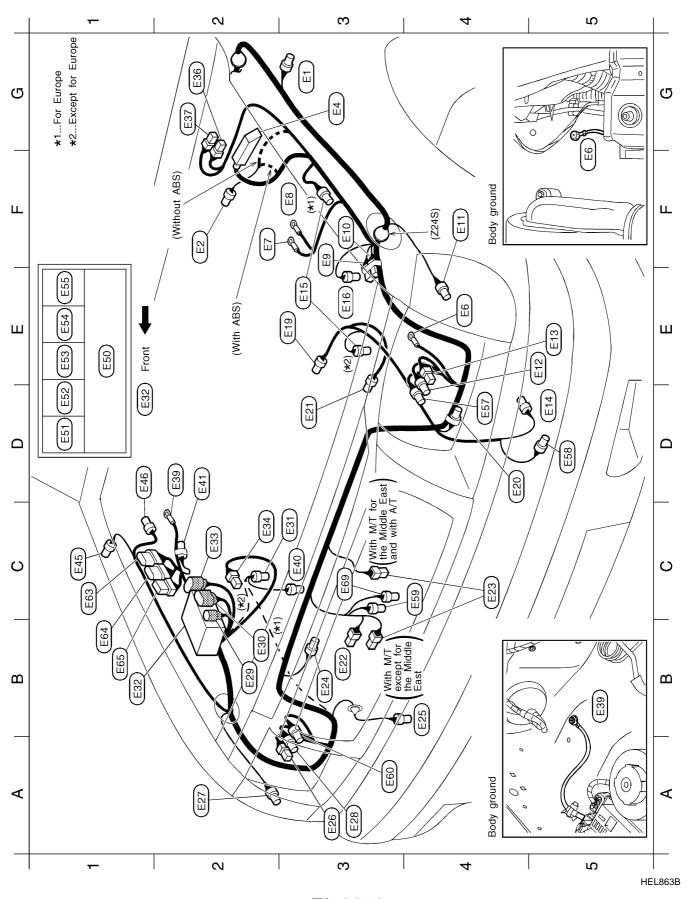
ENGINE COMPARTMENT — YD ENGINE (LHD models)



NOTE

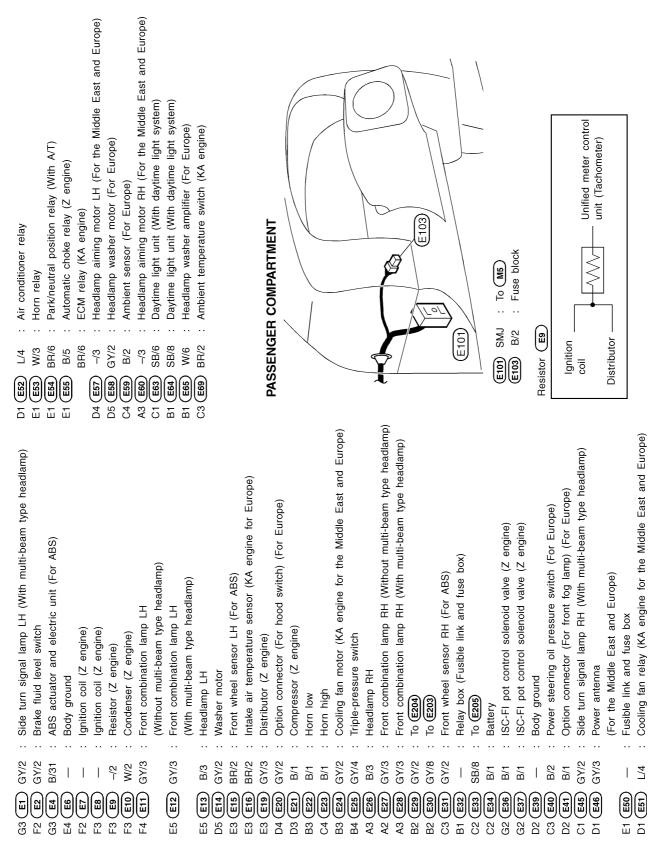
Engine Room Harness

LHD MODELS — GASOLINE ENGINE



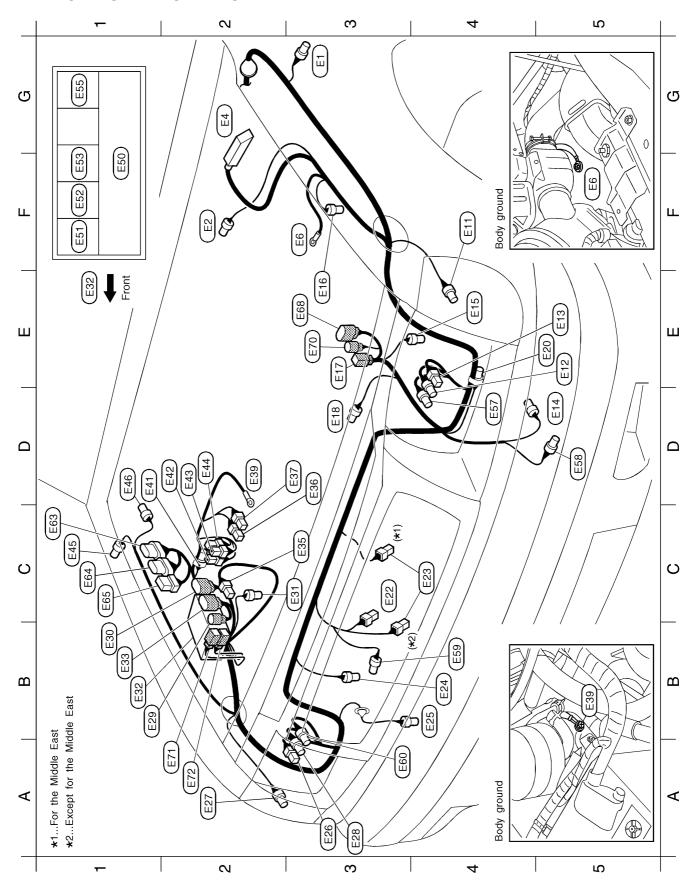
EL-3174

Engine Room Harness (Cont'd)



Engine Room Harness (Cont'd)

LHD MODELS — DIESEL ENGINE

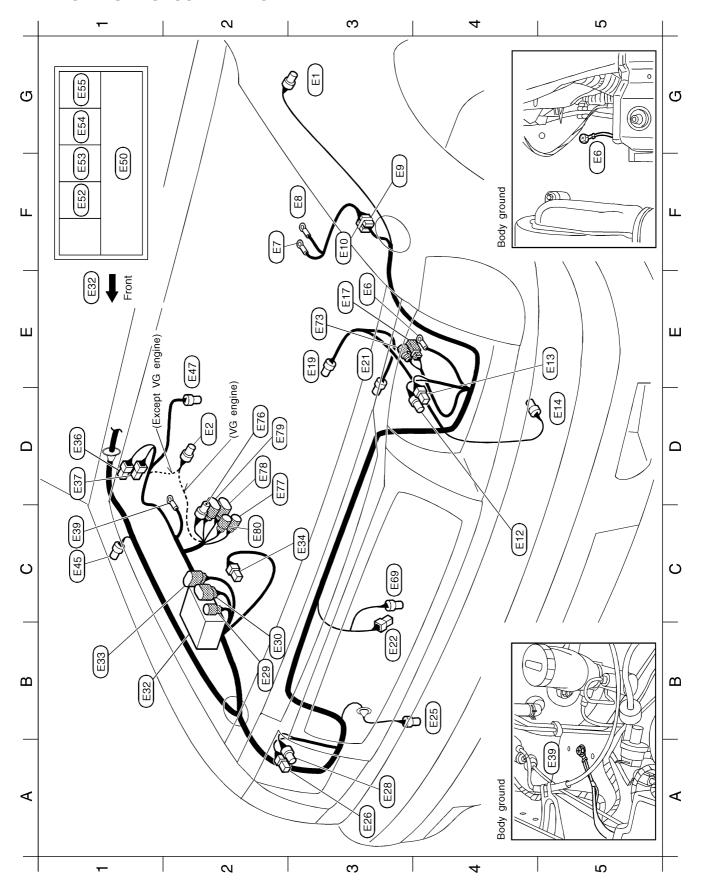


Engine Room Harness (Cont'd)

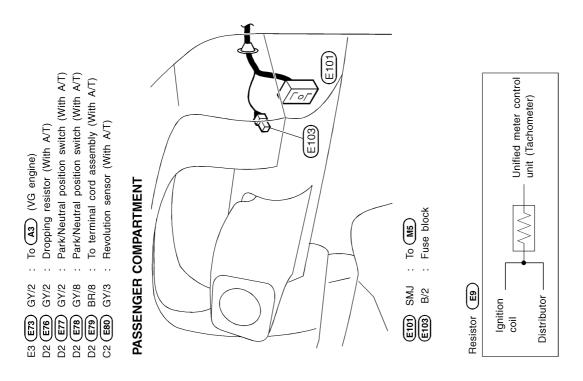
: Ambient sensor (For auto A/C) (YD and ZD engines) Daytime light unit (With daytime light system) Daytime light unit (With daytime light system) Headlamp washer amplifier (For Europe) Headlamp washer motor (For Europe) (For the Middle East and Europe) (For the Middle East and Europe) (TD and QD engines) (YD and ZD engines) (YD and ZD engines) (YD and ZD engines) Headlamp aiming motor RH : Headlamp aiming motor LH PASSENGER COMPARTMENT E103) : Fuse block To (E231) To (A13) To (A14) To (E232) . To (M5) SB/6 SB/8 GY/8 BR/3 SMJ 9/M B/2 -/3 /3 (E101) E103 83 8 E60 (F84 E68 E71 D4 (E57) (E65) A3 (A2 (B4 (5 5 E3 (E3 Cooling fan relay (TD engine for the Middle East, QD, YD and ZD engines) Thermoswitch (TD engine for the Middle East and QD engines) (TD engine for the Middle East, QD, YD and ZD engines) Front combination lamp RH (Except for the Middle East) Front combination lamp LH (Except for the Middle East) Side turn signal lamp LH (Except for the Middle East) Side turn signal lamp RH (Except for the Middle East) Intake air temperature sensor (YD and ZD engines) Option connector (For front fog lamp) (For Europe) Front combination lamp LH (For the Middle East) Front combination lamp RH (For the Middle East) Option connector (For hood switch) (For Europe) IACV-FICD solenoid valve (TD and QD engines) IACV-FICD solenoid valve (TD and QD engines) ABS actuator and electric unit (For ABS) Relay box (Fusible link and fuse box) Gloe relay-1 (YD and ZD engines) Gloe relay-1 (YD and ZD engines) Gloe relay-1 (YD and ZD engines) Front wheel sensor RH (For ABS) Front wheel sensor LH (For ABS) ECM relay (YD and ZD engines) To (E206) (TD and QD engines) To (E203) (YD and ZD engines) Power antenna (For Europe) Fusible link and fuse box Brake fluid level switch Triple-pressure switch Air conditioner relay Cooling fan motor Headlamp RH Headlamp LH Washer motor Body ground Body ground Horn high Horn low To (E204) To (A2) To (E205) GY/3 GY/3 GY/2 BR/2 GY/2 GY/2 GY/2 GY/3 GY/2 GY/8 SB/8 GY/2 B/31 GY/3 GY/2 W/1 W/1 B/2 B/3 **G/2** B/3 B/1 B/1 B/1 B/1 B/1 E5 **E13**E7 **E19**E8 **E19**E9 **E19**E10 E3 **E17** A2 (E27) A3 (E28) B1 E29 C3 E31 B1 (E32) B3 (E33) B3 (E33) B3 (E33) B4 (E43) B4 (E43) B4 (E43) B5 (E33) B6 (E43) B7 (E4 D2 E42 D2 E43 C1 E45 D1 E46 F4 (E11) E5 **E20**C3 **E22**C4 **E23**B4 **E24** B4 (E25) A3 (E26) F1 **E53** F1 (E51) F1 (E52) (E 4 F3 **E6**

Engine Room Harness (Cont'd)

RHD MODELS — GASOLINE ENGINE



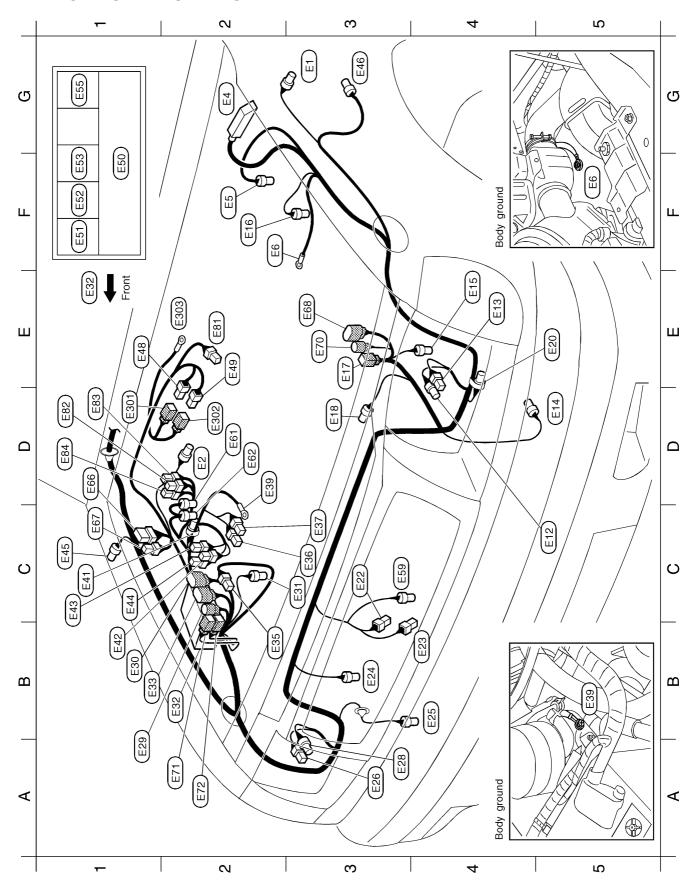
Engine Room Harness (Cont'd)



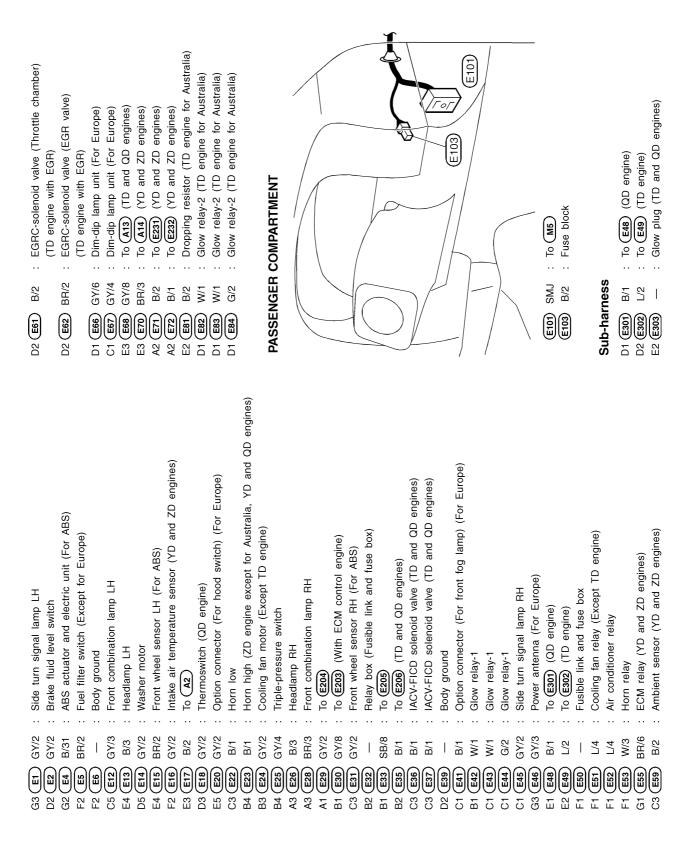
ISC-FI pot control solenoid valve (Z engine) ISC-FI pot control solenoid valve (Z engine) Front combination lamp RH (For Australia) : Ambient temperature switch (KA engine) Relay box (Fusible link and fuse box) Park/Neutral position relay (With A/T) Automatic choke relay (Z engine) To (E203) (Except VG engine) To (E204) (Except VG engine) To (E205) (Except VG engine) Front combinaiton lamp LH Side turn signal lamp LH Fusible link and fuse box Side turn signal lamp RH ECM relay (KA engine) ECM relay (VG engine) Brake fluid level switch Compressor (Z engine) Ignition coil (Z engine) Ignition coil (Z engine) (VG engine) Condenser (Z engine) To (A2) (VG engine) Carburetor (Z engine) Distributor (Z engine) Triple-pressure switch Air conditioner relay Resistor (Z engine) Headlamp LH Washer motor Headlamp RH Body ground Body ground Horn relay Horn low To (E502) Battery GY/2 GY/3 GY/3 GY/2 GY/3 GY/4 GY/3 **GY/2** SB/8 BR/6 BR/6 W/3 W/2 B/2 B/3 B/1 B/1 B/1 B/1 B/1 7 A3 E26 A3 E28 B2 E29 C3 (E69) [3] E3 **E6**

Engine Room Harness (Cont'd)

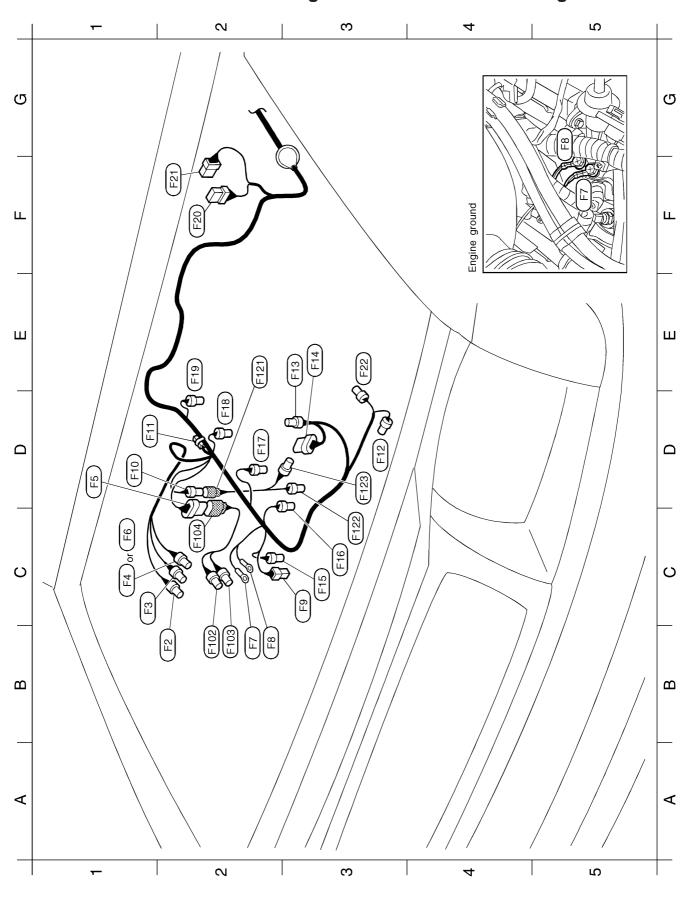
RHD MODELS — DIESEL ENGINE



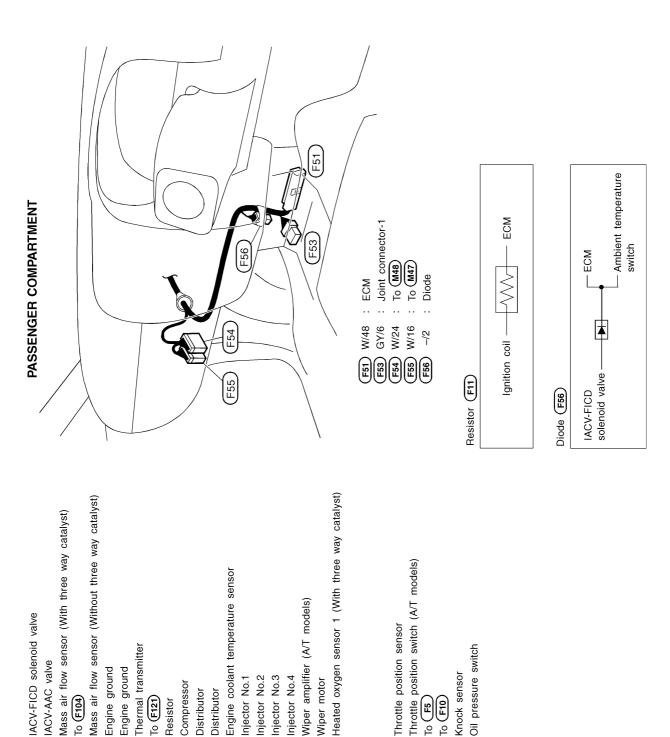
Engine Room Harness (Cont'd)



Engine Control Harness/KA engine



Engine Control Harness/KA engine (Cont'd)



Sub-harness

Throttle position switch (A/T models) Throttle position sensor To (FS) GY/3 B/6 B2 F102 B2 F103 C2 F104 C3 F122 D3 F123

: Knock sensor

To (F10)

: Oil pressure switch

HEL872B

Thermal transmitter

Compressor Distributor Distributor

B/1

GY/2 9/X5 GY/2 GY/2 GY/2 GY/2

Resistor To (**F121**)

B/1 B/3 -/2

Injector No.2 Injector No.3

Injector No.4

Wiper motor

Injector No.1

Engine ground Engine ground

IACV-AAC valve

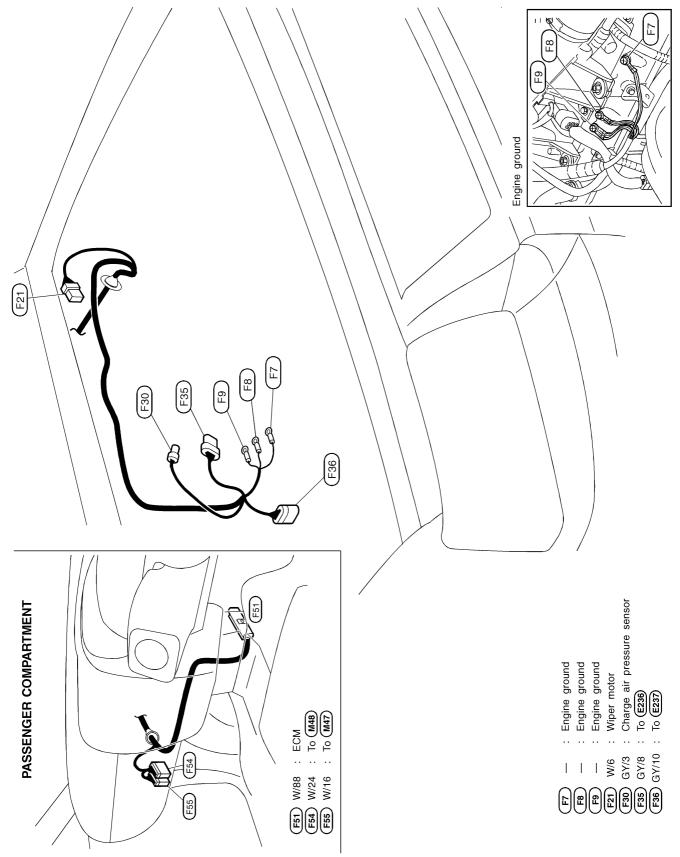
To (F104)

9/X5

BR/4

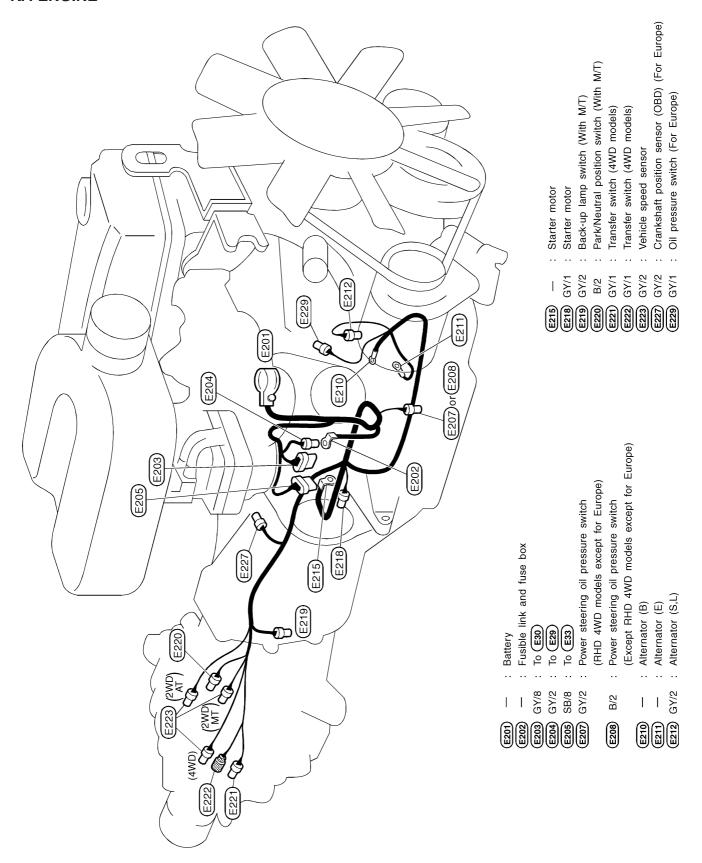
Engine Control Harness

ENGINE COMPARTMENT — YD ENGINE (RHD models)



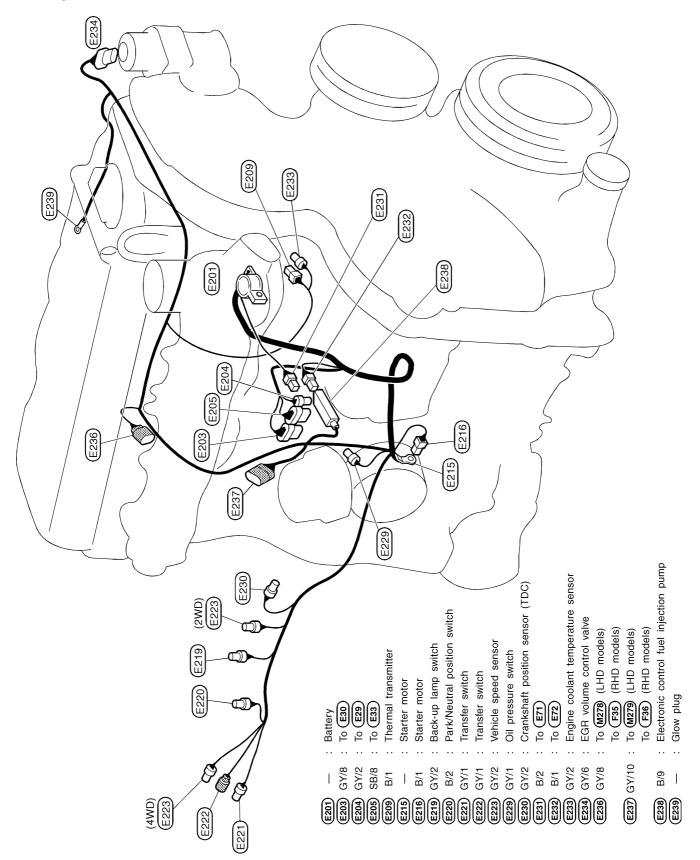
Engine Harness

KA ENGINE

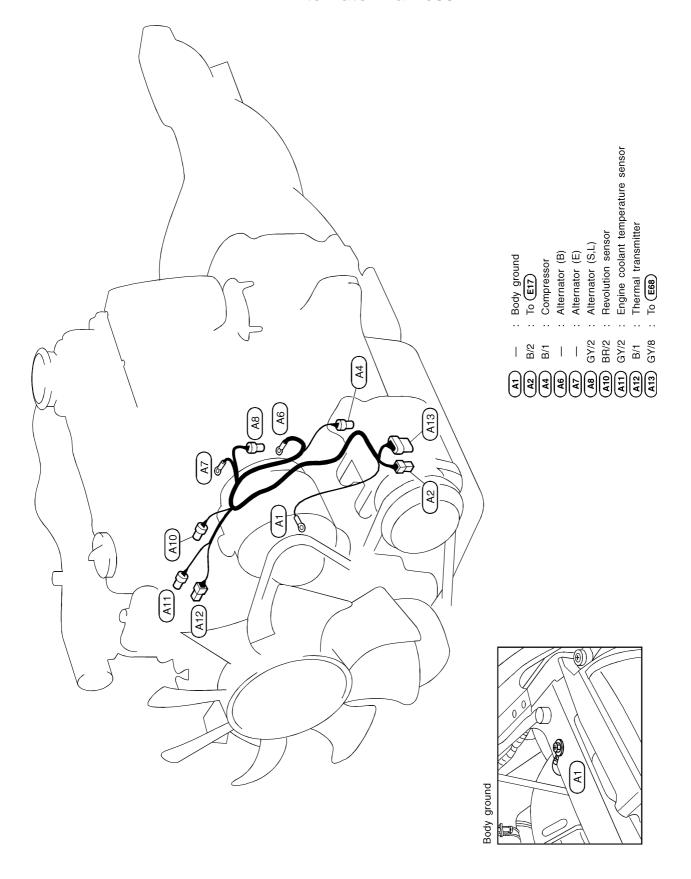


Engine Harness (Cont'd)

YD ENGINE

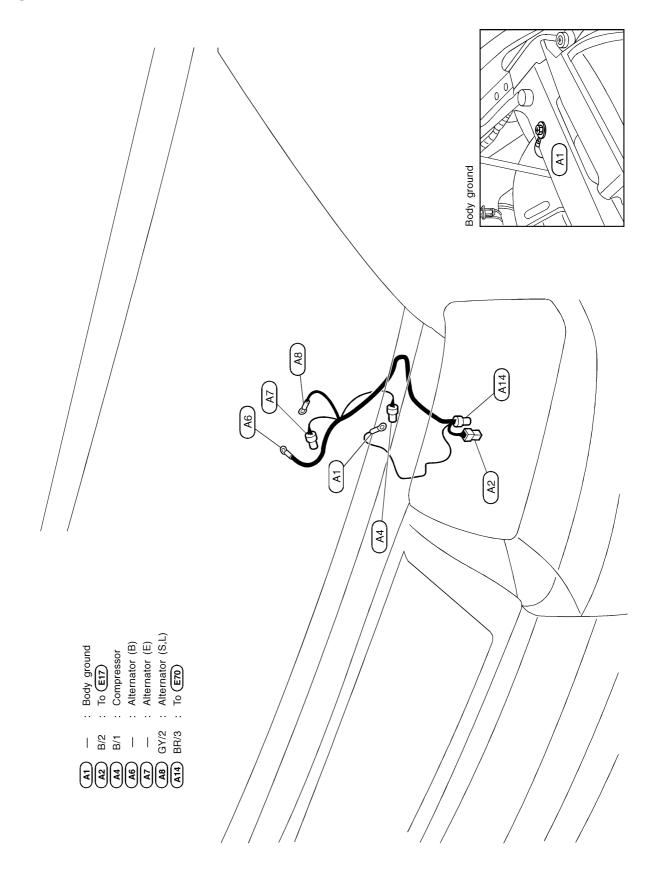


Alternator Harness

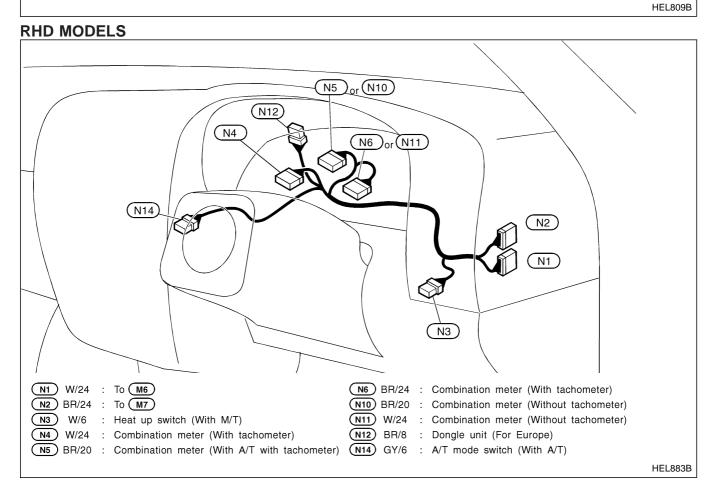


Alternator Harness (Cont'd)

YD ENGINE



Instrument Harness LHD MODELS N4 (N10) N6) or N11 N1 N3 N7 N1 W/24 : To M6 N2 BR/24 : To M7 W/6 : Heat up switch (With M/T except with tachometer for the Middle East) N4 W/24 : Combination meter (With tachometer) N6 BR/24 : Combination meter (With tachometer) N7 W/4 : Headlamp aiming switch (For Europe and the Middle East) N8 BR/8 : Headlamp washer switch (For Europe) N10 BR/20 : Combination meter (Without tachometer) N11 W/24 : Combination meter (Without tachometer)



Chassis Harness and Tail Harness

Chassis harness	(C2) W/6 : To (M112) (With ABS) (C3) GY/5 : Fuel level sensor unit and fuel pump (C4) SB/4 : To rear wheel sensor sub-harness (For ABS) (AWD models and 2WD models with LT30 rear brake) (C5) GY/2 : Rear wheel sensor (For ABS) (2WD models with LT26B rear brake) (C7) SB/8 : To (T4) (C9) W/16 : To (M121) (C10) BR/2 : High-mounted stop lamp (With guard bar for the Middle East)	
Tail harness	(T) W/6 : Rear combination lamp RH (A-chassis models or with smooth rear body except for Europe, Australia and China) (T2) W/8 : Rear combination lamp RH (For Europe, Australia and China except A-chassis models or with regular rear body) (T3) GY/2 : License plate lamp RH (With step bumper) (T5) GY/2 : License plate lamp RH (Without step bumper) (T6) GY/2 : License plate lamp LH (Without step bumper) (T7) B/2 : License plate lamp LH (Without step bumper) (T8) W/6 : Rear combination lamp LH (A-chassis models or with smooth rear body	TD GW2: Rear combination lamp LH (For Europe, Australia and China except A-chassis models or with regular rear body) TD GW2: Rear fog lamp (RHD A-chassis models for Europe) TE GW2: Rear fog lamp (LHD A-chassis models for Europe) TE GW2: Te for Europe (TE GW2: Te for Europe) TE GW2: TE For TE

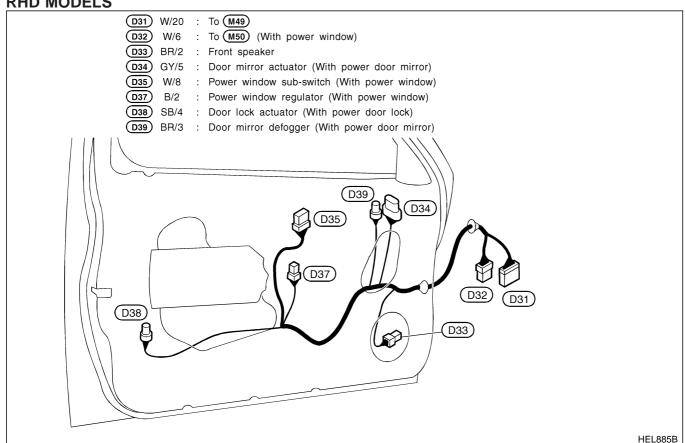
LHD MODELS

Front Door Harness (LH side)

HEL811B

D1) W/20 To **M3 D9** BR/3 : Door mirror defogger (With power window for Europe) **D10** SB/4 **D2** W/12 : To M4 (With power window) : Door lock actuator (With multi-remote control system) **D11** GY/3 : Door mirror actuator (With power door mirror D3 BR/2 : Front speaker for the Middle East) **D4** GY/5 : Door mirror actuator (With power door D12 SB/6 : Power window regulator (With power window with mirror except for the Middle East) interruption detection function) D5 W/16 : Power window main switch **D7** B/2 : Power window main switch (With power window with : Power window regulator (With power **D13** W/3 interruption detection function) window without interruption detection (D14) W/10 : Door mirror remote control switch function) D8 GY/2 : Lock knob switch (With power door lock without multi-remote control system) (D13) D9 D4 D5 (D12) D7 D2 D8 (D10) D3

RHD MODELS



LHD MODELS

Front Door Harness (RH side)

D31 W/20 : To **M49**

: To M50 (With power window)

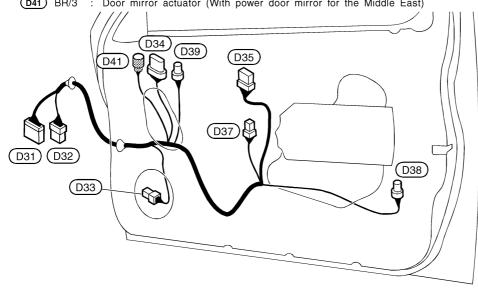
: Front speaker

: Door mirror actuator (With power door mirror except for the Middle East)

: Power window sub-switch (With power window) (D37) : Power window regulator (With power window) : Door lock actuator (With power door lock)

: Door mirror defogger (With power door mirror except for the Middle East) **D39**) BR/3

: Door mirror actuator (With power door mirror for the Middle East) **D41**) BR/3



HEL812B

RHD MODELS

D1) W/20 To (M3)

: To M4 (With power window)

: Front speaker

D4 GY/5 : Door mirror actuator (With power window)

D5) W/16 : Power window main switch D7) B/2 : Power window regulator

(With power window except for Europe)

D8 GY/2 : Lock knob switch (With power door lock

without multi-remote control system)

D9) BR/3 : Door mirror defogger

(D10) SB/4 Door lock actuator

(With multi-remote control system)

(D12) SB/6 : Power window regulator

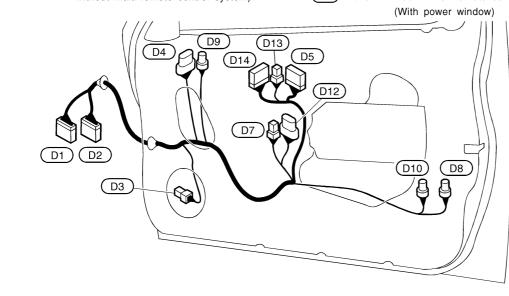
(With power window for Europe)

(With power window for Europe)

(D13) W/3 : Power window main switch

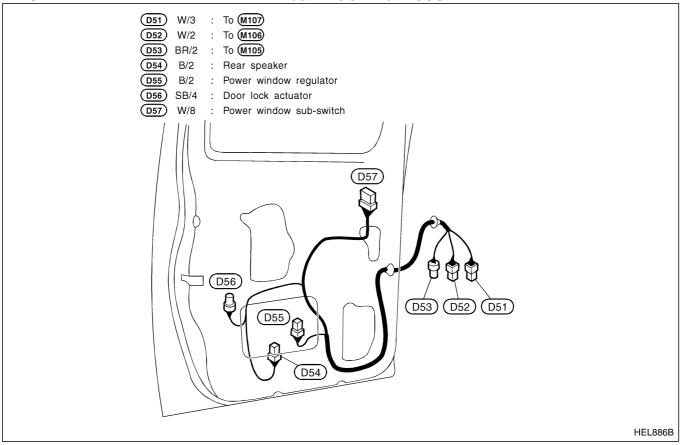
(With power window for Europe)

D14) W/10 : Door mirror remote control switch

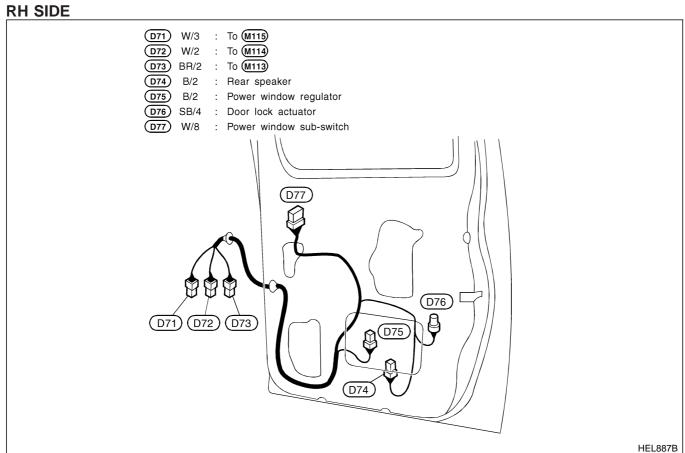


HEL884B

LH SIDE Rear Door Harness







EL-3193

WIRING DIAGRAM CODES (CELL CODES)

Use the chart below to find out what each wiring diagram code stands for.

Refer to the wiring diagram code in the alphabetical index to find the location (page number) of each wiring diagram.

Code	Section	Wiring Diagram Name
AAC/V	EC	IACV-AAC Valve
ABS	BR	Anti-lock Brake System
A/C, A	HA	Auto Air Conditioner
A/C, M	HA	Manual Air Conditioner
ACC/SW	EC	Accelerator Switch
A/CCOT	EC	Air Conditioner Control
AIRREG	EC	IACV-Air Regulator
APS	EC	Accelerator Position Sensor
AT/IND	EL	A/T Indicator
AUDIO	EL	Audio
BACK/L	EL	Back-up Lamp
BA/FTS	АТ	BATT/A/T Fluid Temperature Sensor and TCM Power Supply
BOOST	EC	Turbocharger Boost Sensor
BRK/SW	EC	Brake Switch Signal
CHARGE	EL	Charging System
CHIME	EL	Warning Chime
CHOKE	EC	Automatic Choke
CIGAR	EL	Cigarette Lighter
CKPS	EC	Crankshaft Position Sensor
CLOCK	EL	Clock
CMPS	EC	Camshaft Position Sensor
COOL/F	LC, EC	Cooling Fan Control
DEF	EL	Rear Window Defogger and Mirror Defogger
DIMDIP	EL	Headlamp — With Dim-dip Lamp System
D/LOCK	EL	Power Door Lock
DTRL	EL	Headlamp — With Daytime Light System
ECMRLY	EC	ECM Relay
ECTS	EC	Engine Coolant Temperature Sensor
EGRC/V	EC	EGRC — Solenoid Valve
EGVC/V	EC	EGR Volume Control Valve
ENGSS	AT	Engine Speed Signal
FCUT	EC	Fuel Cut Solenoid Valve
FICD	EC	IACV-FICD Solenoid Valve
FIPOT	EC	ISC-FI Pot
FPCM	EC	Fuel Pump Control Module
F/PUMP	EC	Fuel Pump

Code Section Wiring Diagram Name GLOW EC Quick-glow System H/AIM EL Headlamp Aiming Control HEATER HA Heater HEATUP EC Heat up Switch H/LAMP EL Headlamp HLC EL Headlamp HLC EL Headlamp HC EL Headlamp HLC EL Headlamp HC Headlamp Headlamp HC Headlamp Headlamp HC Heated Seat Heaslamp HC Heated Seat Heaslamp IATS EC Injector		ı	1
H/AIM EL Headlamp Aiming Control HEATER HA Heater HEATUP EC Heat up Switch H/LAMP EL Headlamp HLC EL Headlamp Washer HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve EVAP Canister Purge Control Solenoid Valve EVAP Canister Purge Control Solenoid Valve		Section	Wiring Diagram Name
HEATER HA Heater HEATUP EC Heat up Switch H/LAMP EL Headlamp HLC EL Headlamp Washer HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	GLOW	EC	Quick-glow System
HEATUP EC Heat up Switch H/LAMP EL Headlamp HLC EL Headlamp Washer HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	H/AIM	EL	Headlamp Aiming Control
H/LAMP EL Headlamp HLC EL Headlamp Washer HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	HEATER	HA	Heater
HLC EL Headlamp Washer HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	HEATUP	EC	Heat up Switch
HO2S EC Heated Oxygen Sensor HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve PANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	H/LAMP	EL	Headlamp
HORN EL Horn H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve EVAP Canister Purge Control Solenoid Valve EVAP Canister Purge Control Solenoid Valve	HLC	EL	Headlamp Washer
H/SEAT EL Heated Seat IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve EVAP Canister Purge Control Solenoid Valve	HO2S	EC	Heated Oxygen Sensor
IATS EC Intake Air Temperature Sensor IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	HORN	EL	Horn
IGN EC Ignition System IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna EVAP Canister Purge Control Solenoid Valve	H/SEAT	EL	Heated Seat
IGN/SG EC Ignition Signal ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve PANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	IATS	EC	Intake Air Temperature Sensor
ILL EL Illumination INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	IGN	EC	Ignition System
INJECT EC Injector INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	IGN/SG	EC	Ignition Signal
INJPMP EC Electronic Control Fuel Injection Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna EVAP Canister Purge Control Solenoid Valve	ILL	EL	Illumination
INJPMP EC Pump INT/L EL Spot Lamp INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna EVAP Canister Purge Control Solenoid Valve	INJECT	EC	Injector
INT/V EC Intake Air Control Valve Control Solenoid Valve KS EC Knock Sensor LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna EVAP Canister Purge Control Solenoid Valve	INJPMP	EC	
INT/V KS EC Knock Sensor LOAD EC Electric Load Signal Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL POWER Door AT PGC/V EC EVAP Canister Purge Control Solenoid Valve	INT/L	EL	Spot Lamp
LOAD EC Electric Load Signal LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2S1B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	INT/V	EC	
LPSV AT Line Pressure Solenoid Valve MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	KS	EC	Knock Sensor
MAFS EC Mass Air Flow Sensor MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	LOAD	EC	Electric Load Signal
MAIN EC, AT Main Power Supply and Ground Circuit METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC Control Solenoid Valve	LPSV	AT	Line Pressure Solenoid Valve
METER EL Speedometer, Tachometer, Temp. and Fuel Gauges MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC Control Solenoid Valve	MAFS	EC	Mass Air Flow Sensor
MIL/DL EC MIL and Data Link Connectors MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC Control Solenoid Valve	MAIN	EC, AT	
MIRROR EL Power Door Mirror MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	METER	EL	
MULTI EL Multi-remote Control System NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC Control Solenoid Valve	MIL/DL	EC	MIL and Data Link Connectors
NATS EL Nissan Anti-theft System NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	MIRROR	EL	Power Door Mirror
NONDTC AT Non-detectable Items O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	MULTI	EL	Multi-remote Control System
O2H1B1 EC Heated Oxygen Sensor 1 Heater O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	NATS	EL	Nissan Anti-theft System
O2H2B1 EC Heated Oxygen Sensor 2 Heater O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	NONDTC	AT	Non-detectable Items
O2S1B1 EC Heated Oxygen Sensor 1 O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	O2H1B1	EC	Heated Oxygen Sensor 1 Heater
O2S2B1 EC Heated Oxygen Sensor 2 OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	O2H2B1	EC	Heated Oxygen Sensor 2 Heater
OVRCSV AT Overrun Clutch Solenoid Valve P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	O2S1B1	EC	Heated Oxygen Sensor 1
P/ANT EL Power Antenna PGC/V EC EVAP Canister Purge Control Solenoid Valve	O2S2B1	EC	Heated Oxygen Sensor 2
PGC/V EC EVAP Canister Purge Control Solenoid Valve	OVRCSV	AT	Overrun Clutch Solenoid Valve
Control Solenoid Valve	P/ANT	EL	Power Antenna
PLA EC Partial Load Advance Control	PGC/V	EC	
	PLA	EC	Partial Load Advance Control

WIRING DIAGRAM CODES (CELL CODES)

Code	Section	Wiring Diagram Name
PNP/SW	EC	Park/Neutral Position Switch
POWER	EL	Power Supply Routing
PRWIRE	EL	Theft Warning System Pre-wire
PST/SW	EC	Power Steering Oil Pressure Switch
R/FOG	EL	Rear Fog Lamp
ROOM/L	EL	Interior Room Lamp
SHIFT	AT	Shift Lock System
SSV/A	AT	Shift Solenoid Valve A
SSV/B	AT	Shift Solenoid Valve B
SRS	RS	Supplemental Restraint System
S/SIG	EC	Start Signal
START	EL	Starting System
STOP/L	EL	Stop Lamp
SWL/V	EC	Swirl Control Valve Control Solenoid Valve

Code	Section	Wiring Diagram Name
TAIL/L	EL	Parking, License and Tail Lamps
TCV	АТ	Torque Converter Clutch Solenoid Valve
TPS	EC, AT	Throttle Position Sensor
TP/SW	EC	Throttle Position Sensor
TURN	EL	Turn Signal and Hazard Warning Lamps
VSS	EC	Vehicle Speed Sensor
VSSA/T	АТ	Vehicle Speed Sensor A/T (Revolution Sensor)
VSSMTR	AT	Vehicle Speed Sensor Meter
WARN	EL	Warning Lamps
WINDOW	EL	Power Window
WIPER	EL	Front Wiper and Washer