ELECTRICAL SYSTEM



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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. (For Europe)
- A hazard reminder feature has been added to the multi-remote control system. (For Europe)
- NATS (Nissan Anti-Theft System) has been changed. (For Europe)

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

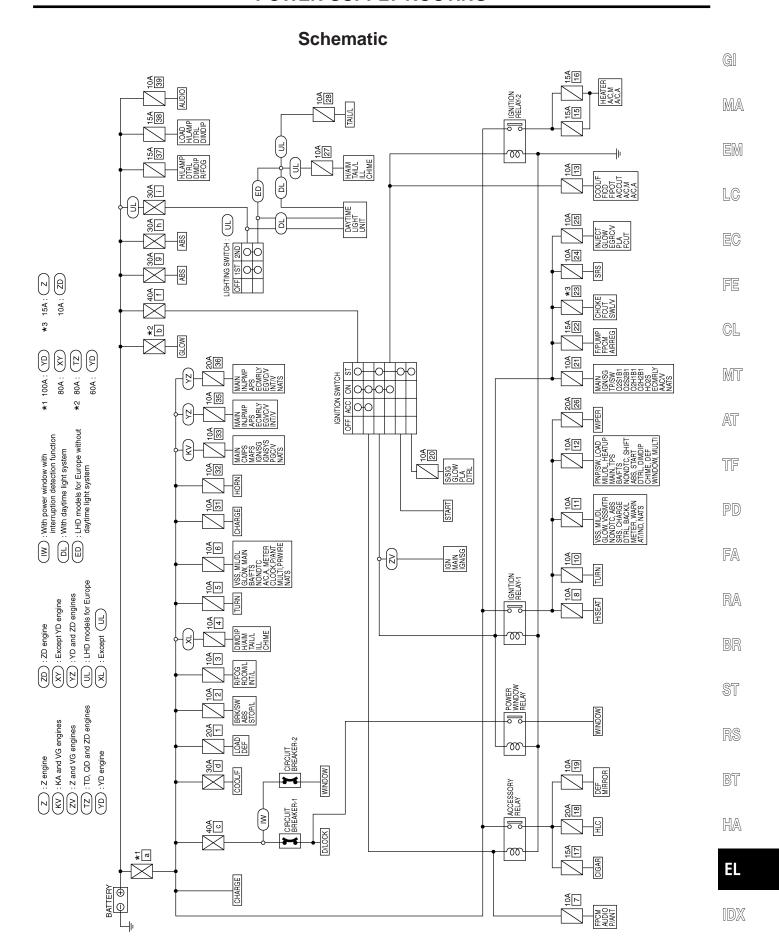
The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The SRS system composition which is available to NISSAN MODEL D22 is as follows (The 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.

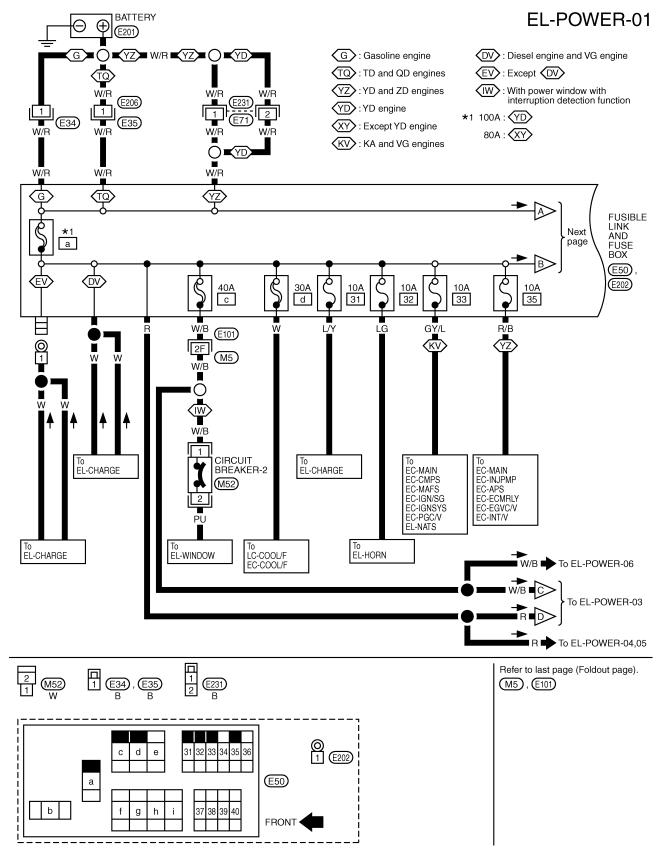
WARNING:

- 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 Bag 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.



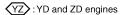
Wiring Diagram — POWER —

BATTERY POWER SUPPLY — IGNITION SWITCH IN ANY POSITION



Wiring Diagram — POWER — (Cont'd)

EL-POWER-02



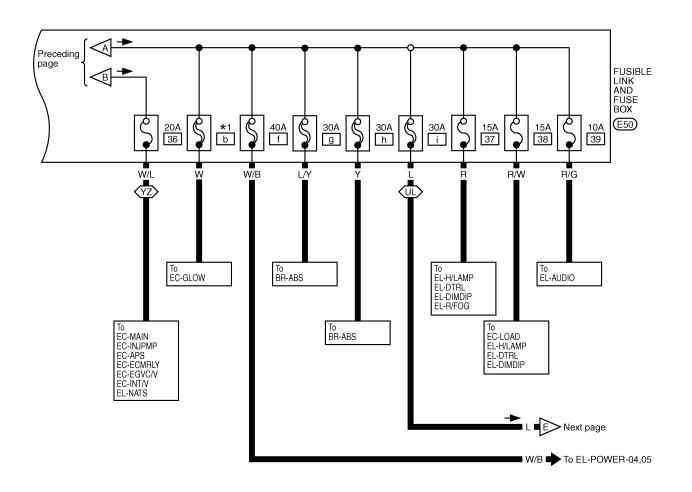
UL: LHD models for Europe

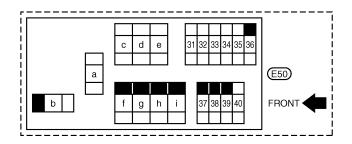
YD: YD engine

TZ: TD, QD and ZD engines

*1 80A : TZ

60A : YD





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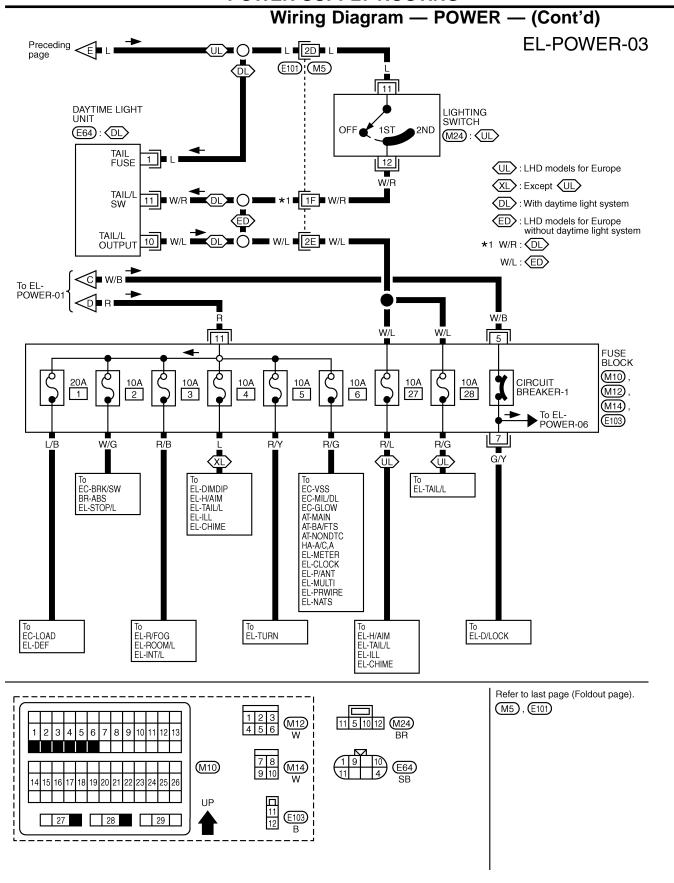
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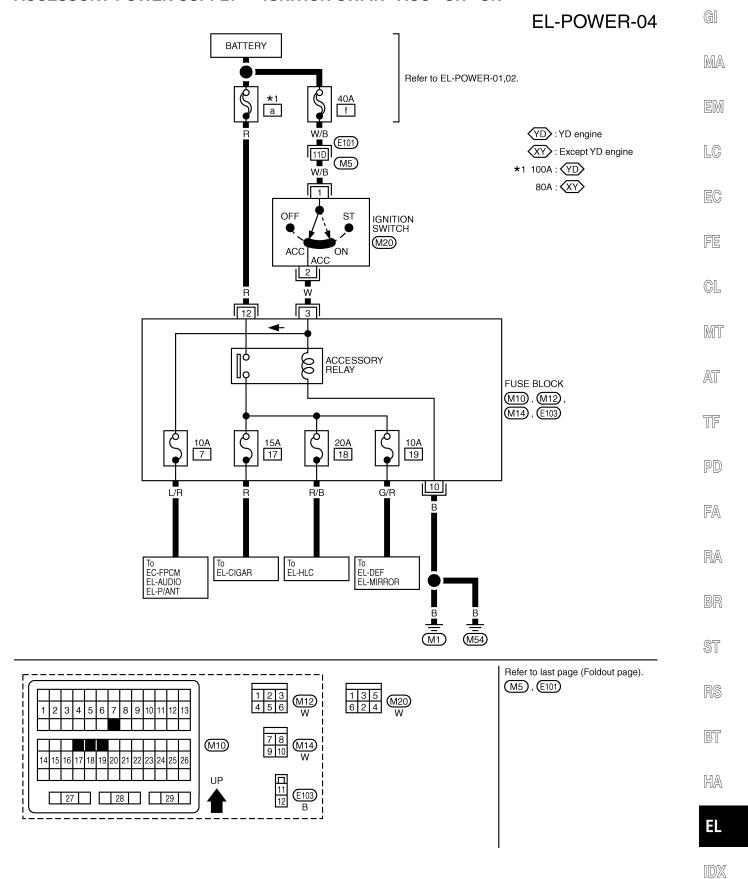
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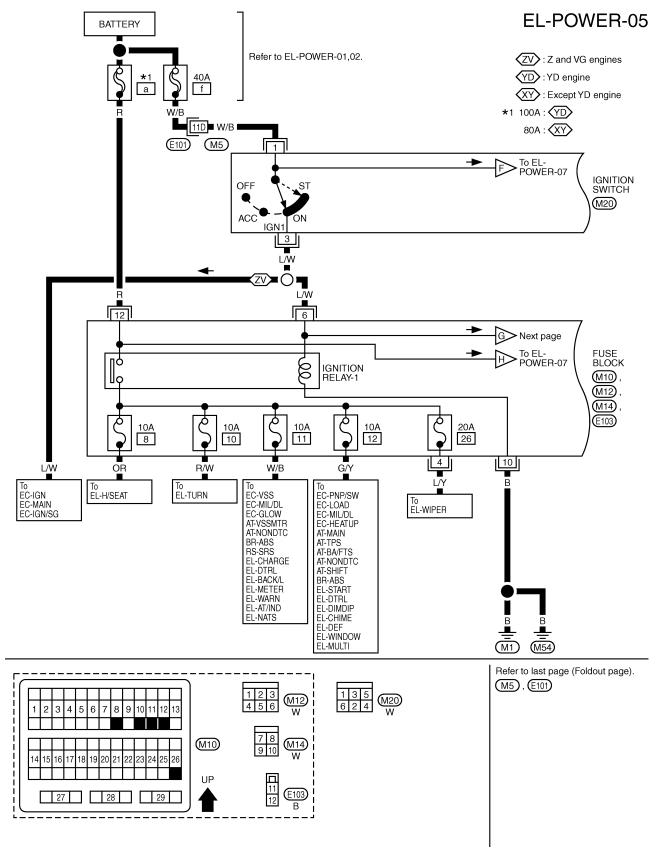
Wiring Diagram — POWER — (Cont'd)

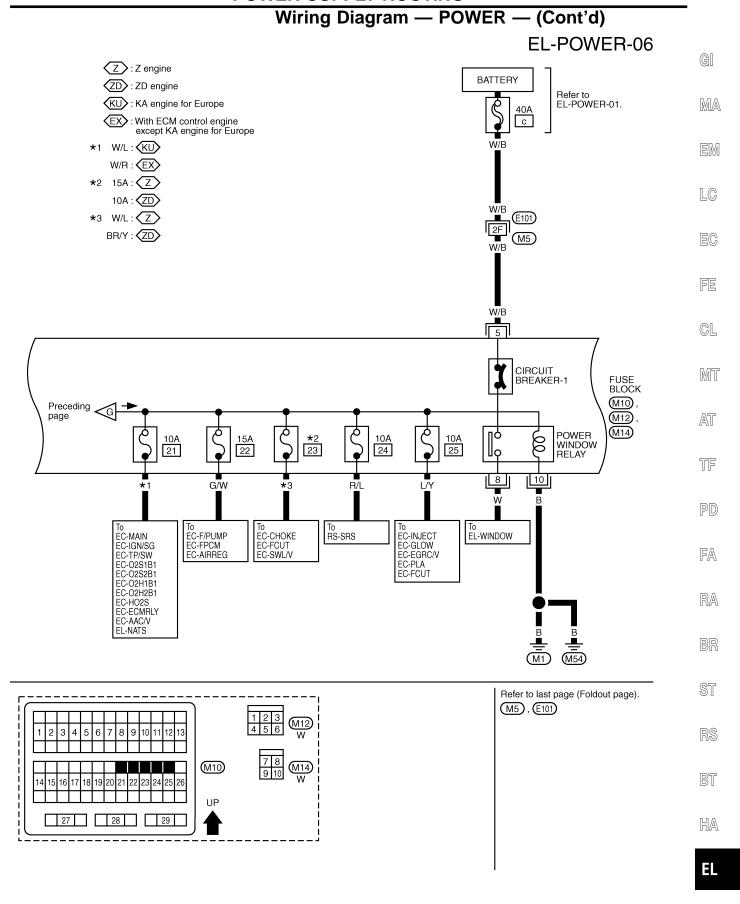
ACCESSORY POWER SUPPLY — IGNITION SW. IN "ACC" OR "ON"



Wiring Diagram — POWER — (Cont'd)

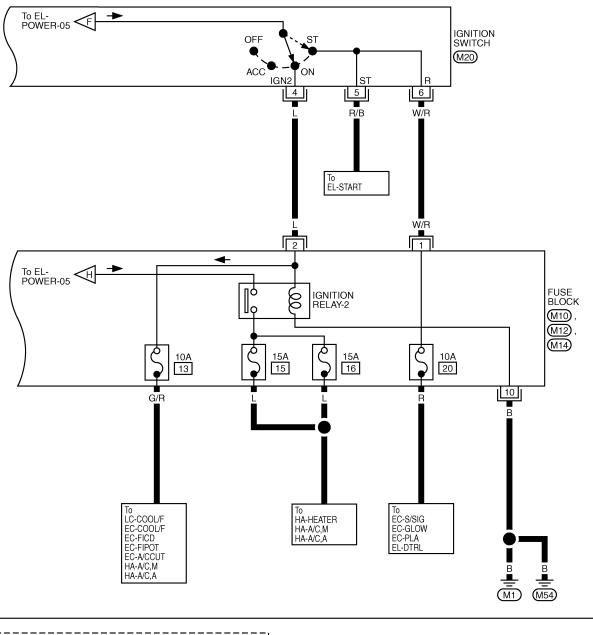
IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START"

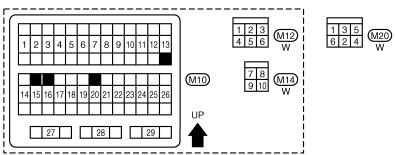




Wiring Diagram — POWER — (Cont'd)

EL-POWER-07





BATTERY

Service Data and Specifications (SDS)

Europe				General areas			
Applied model			YD25				
		Stan	dard	Option	Stan	dard	
Туре		1100	D26R		115D31R		
Capacity	V-AH	12-	-64	12-70			

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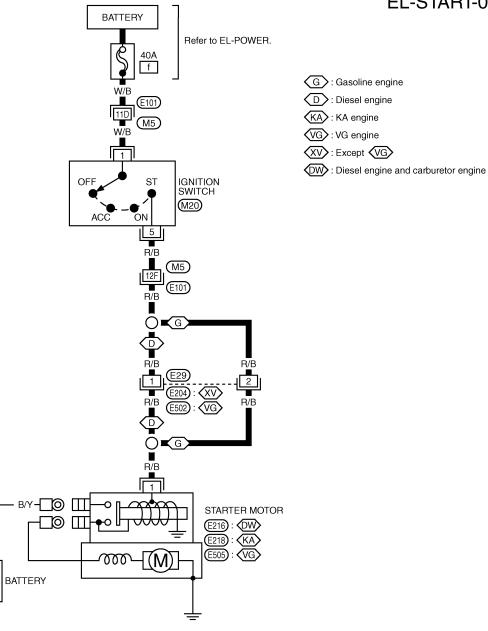
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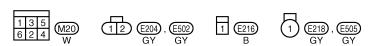
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Wiring Diagram — START —/M/T Models

EL-START-01





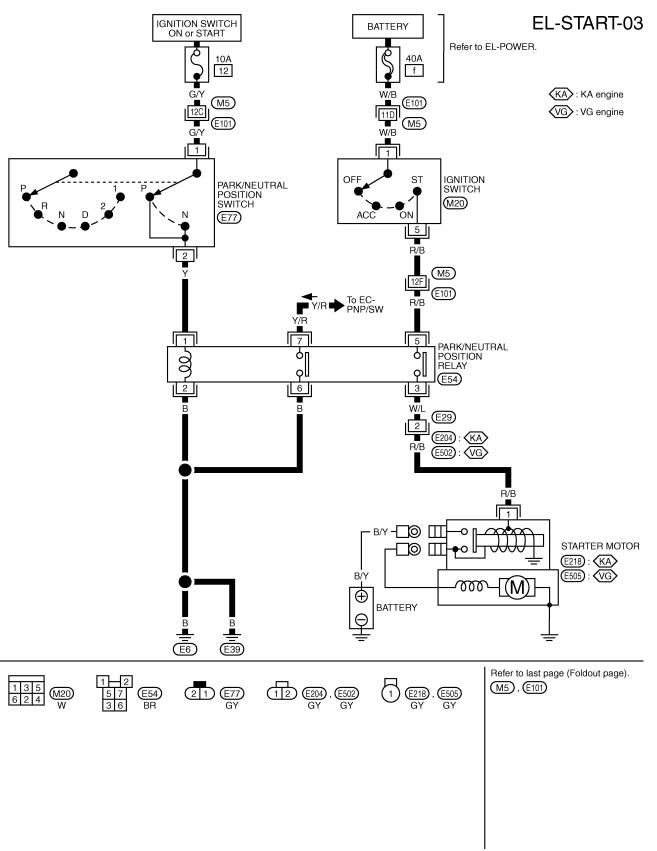
B/Y

Refer to last page (Foldout page).

(M5), (E101)

Wiring Diagram — START —/LHD A/T Models G[**EL-START-02** IGNITION SWITCH ON or START BATTERY Refer to EL-POWER. MA 12 W/B 11D W/B EM E101 (M5) G/Y LC IGNITION SWITCH PARK/NEUTRAL POSITION SWITCH EC M20 (M233) 5 FE 2 GL (M5) 12F R/B To EC-Y/R To EC-PNP/SW MT PARK/NEUTRAL POSITION AT RELAY 6 TF (E204) PD R/B FA B/Y **- O II** RA STARTER MOTOR (E218) B/Y m $\Gamma(M)$ \oplus BR BATTERY ST Refer to last page (foldout page). 1 2 E204 GY RS M5, E101 BT HA ΕL

Wiring Diagram — START —/RHD A/T Models



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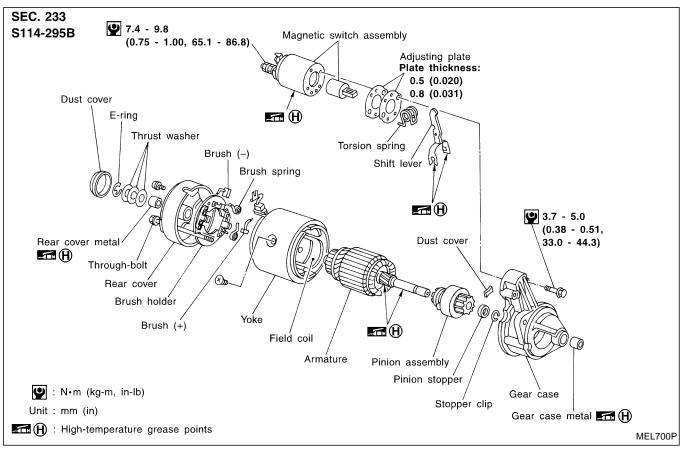
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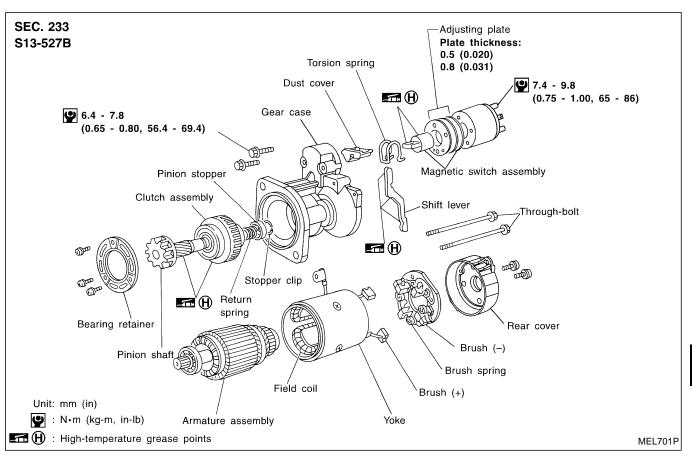
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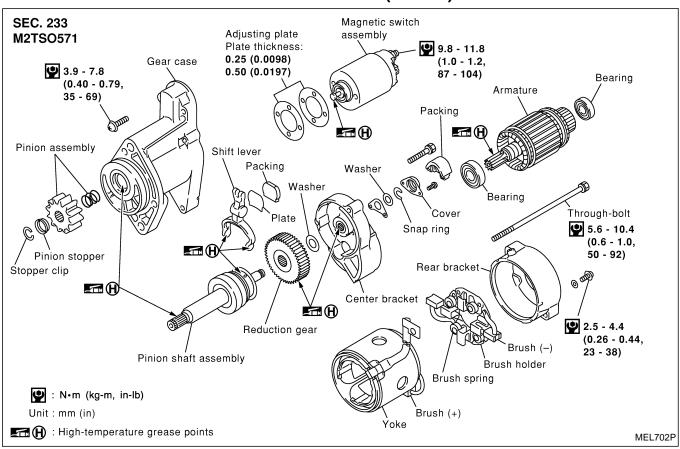
Construction





STARTING SYSTEM

Construction (Cont'd)



STARTING SYSTEM

Service Data and Specifications (SDS)

STARTER

		M2TS	80571	M3T29482D	S114-348A	S114-295B	S13-527B	
Туре		MITSUBISHI				HITACHI	•	. 1
		Redu	ıction		Non-reduction		Reduction	
		2WD	4WD		2WD		4WD	
Applied model		YC)25		Z24		ZD30	
		Stan	dard	Star	ndard	Option	Standard	П
System voltage	V			1	2			
No-load								
	Terminal voltage V	11	.0		11.5	11.5		
	Current A	Less th	an 145		Less than 60	Less than 160*		
	Revolution rpm	More tha	an 3,200	More than 6,500	More than 7,000	More than 6,000	More than 3,300	F
Minimum diameter o	f commutator mm (in)	31.4 (1.236)			39.0 (35.5 (1.398)		
Minimum length of b	rush 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 · (2.7 - 3.7,		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 larmature shaft	pearing metal and mm (in)	Less than 0.2 (0.00			08)	_		
Clearance " ℓ " between and pinion stopper	en pinion front edge mm (in)	_	_		0.5 - 2.0 0.020 - 0.079)		_	Ŀ
Movement "ℓ" in heiç	ght of pinion assembly mm (in)	0.5 (0.020 ·			_		0.3 - 2.0 (0.01 - 0.079)	1

^{*:} Includes magnet switch current.



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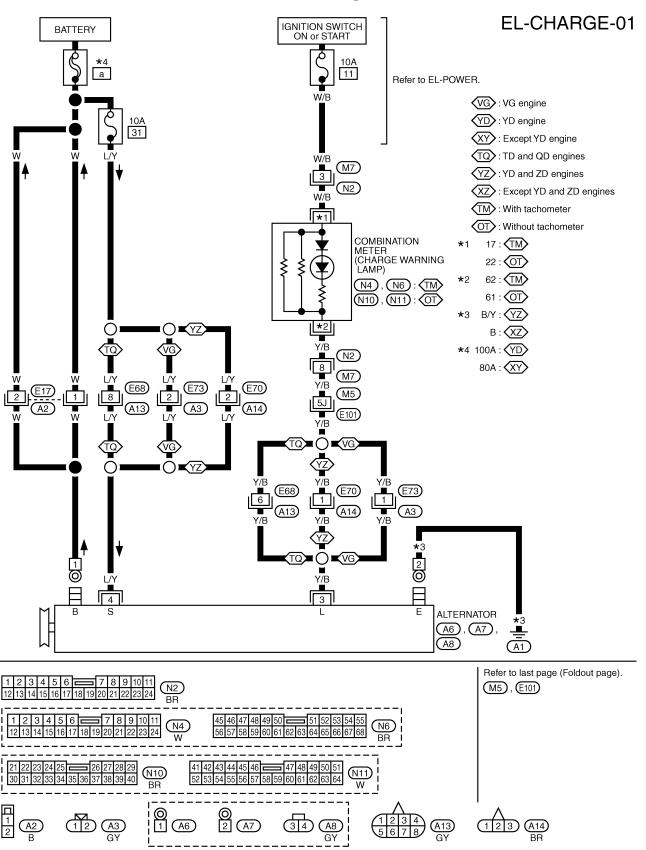


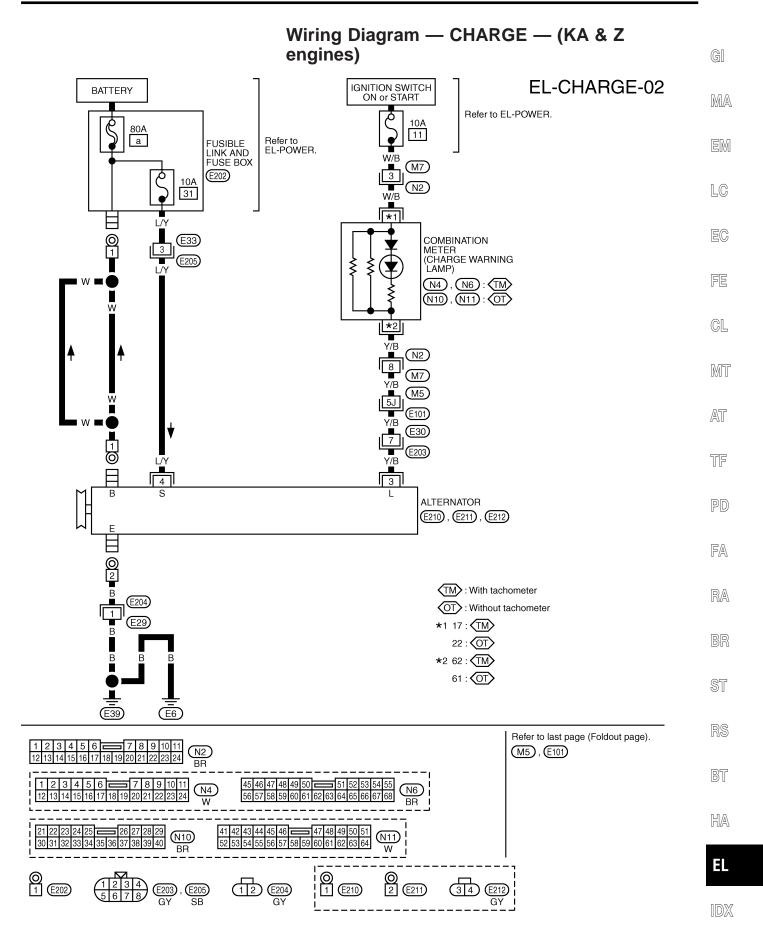




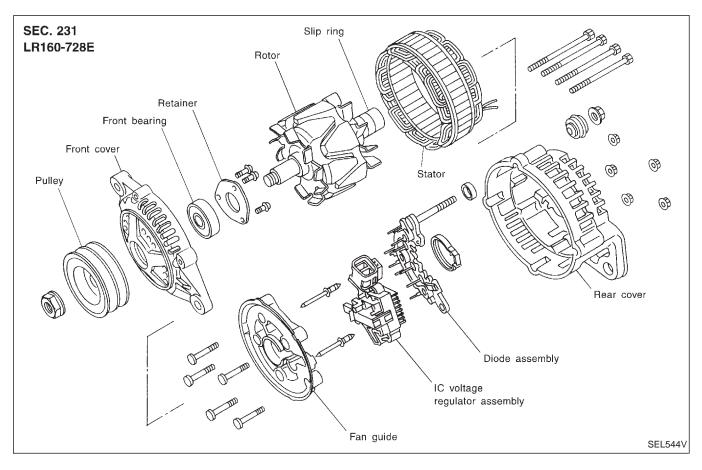
EL

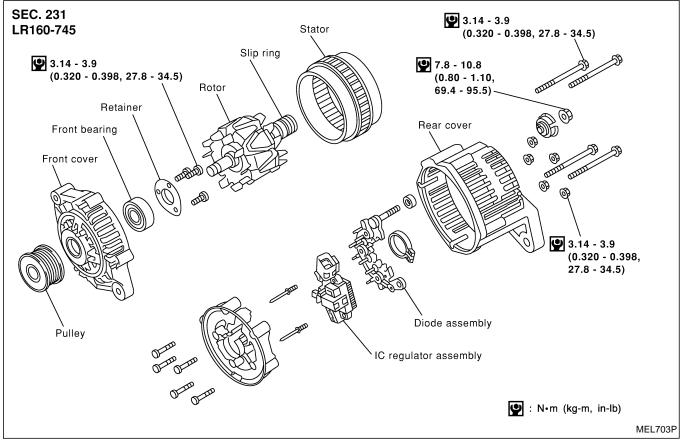
Wiring Diagram — CHARGE —/Diesel Engine and VG Engine





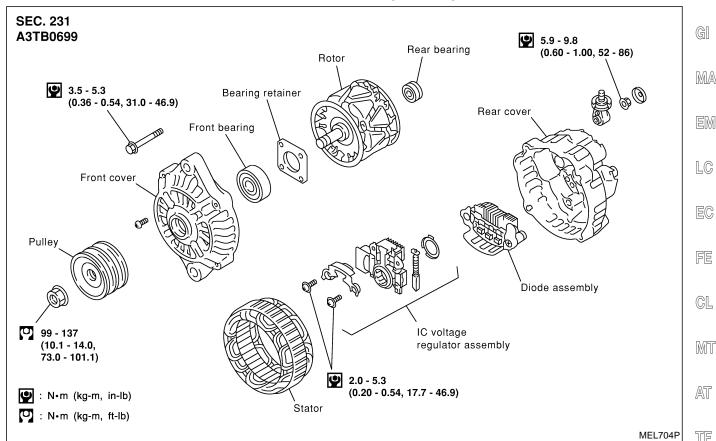
Construction





CHARGING SYSTEM

Construction (Cont'd)



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CHARGING SYSTEM

Service Data and Specifications (SDS)

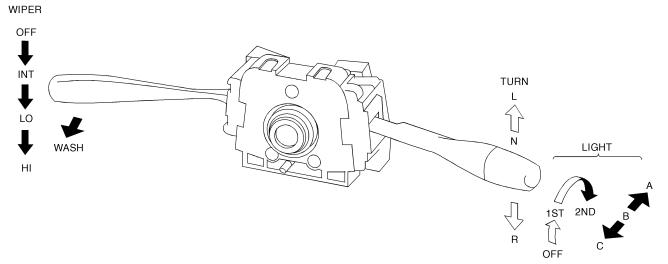
ALTERNATOR

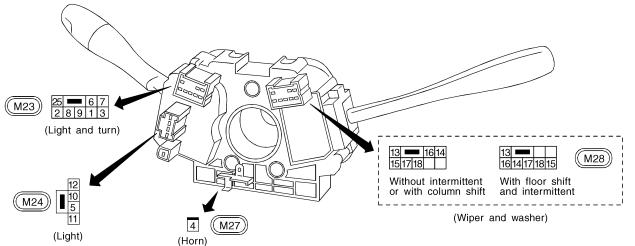
Type	A5TA5271	A7TA8471	A5TA5372	A3TB0699	LR160-745	LR160-728E	
Туре	MITSUBISHI HITACHI					ACHI	
Applied model	KA24DE	Z	24	YD25	ZD30	TD27, QD32	
Applied model	NAZ4DE	Standard	Option*	1 1025	2030	1027, Q032	
Nominal rating V-A	12-70	12-35	12-70	12-90	12	-60	
Ground polarity			Neg	ative	•		
Minimum revolution under no- load (When 13.5V is applied) rpm		Less that	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)	in) 5.0 (0.20) 6.0 (0.2				0.236)		
Brush spring pressure N (g, oz)	oz) 4.8 - 6.0 (487 - 612, 17.25 - 21.59) 1.0 - 3.43 (102 - 35					350, 3.60 - 12.34)	
Slip ring minimum outer diameter mm (in)	22 1 (0 870)				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

Check

RHD MODELS EXCEPT FOR EUROPE





		LI	Gi	11	IN	Ġ	SW	1 1	CH			
)FF	=	1	ST	•	2ND					
	Α	В	С	Α	В	С	Α		В	С		
5			ρ			Q		2		2	(2
6			Q			Q		\sim				2
7										2		
8			Q			Q	Q		Q		Q	
9			Q			Q	Ò				0	
10									Q			
11				Q	φ	ρ	φ		Q		0	
12				b	0	Q	0		o o		0	
25								5		5		5

	WAS (With and	— .	lumn	shi	ft
$\overline{\ }$	OFF	INT	LO	HI	WA
3	Q	ρ			
4	0	6	Q		

WIPER AND

	OFF	INT	L	0	HI	WASH
13	Q	Q				
14	0	Ъ	Ç)		
15		Ф				
16					Q	
17		ф	ď)	6	Q
18						Q

WIPER AND WASHER SWITCH
(With floor shift
and intermittent)

	OFF	INT	LO	НІ	WASH		Ш
13							FIRE ۱
14	Q	Q	Q				WIPER AMPLIFI (In combination switch)
\boxtimes	Q	6					IPI ati
\times		Q				_	AΝ in:
15	<u> </u>						را الم (را
16				Q			F S E
17		Ò	6	0	ρ		WIPI (In c swii
18					6	H	≶ ≂ "

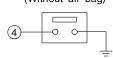
WI	PER	AN	D					
W	ASHE	ER S	TIW	CH				
(Without intermittent)								

	OFF	LO		НІ		WA	ASH
13	Q						
14	Q	(?				
15							
16					2		
17		0			5	Q	
18						(5

 SIGNAL SWITCH
ND

$\overline{}$	L		LN		R	
1	Q				2	
2				(5	
3	7	5				

HORN SWITCH (Without air bag)



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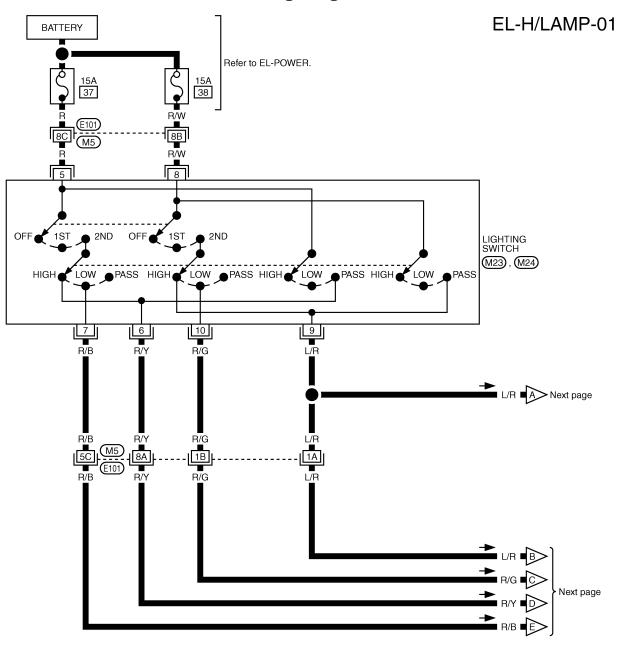
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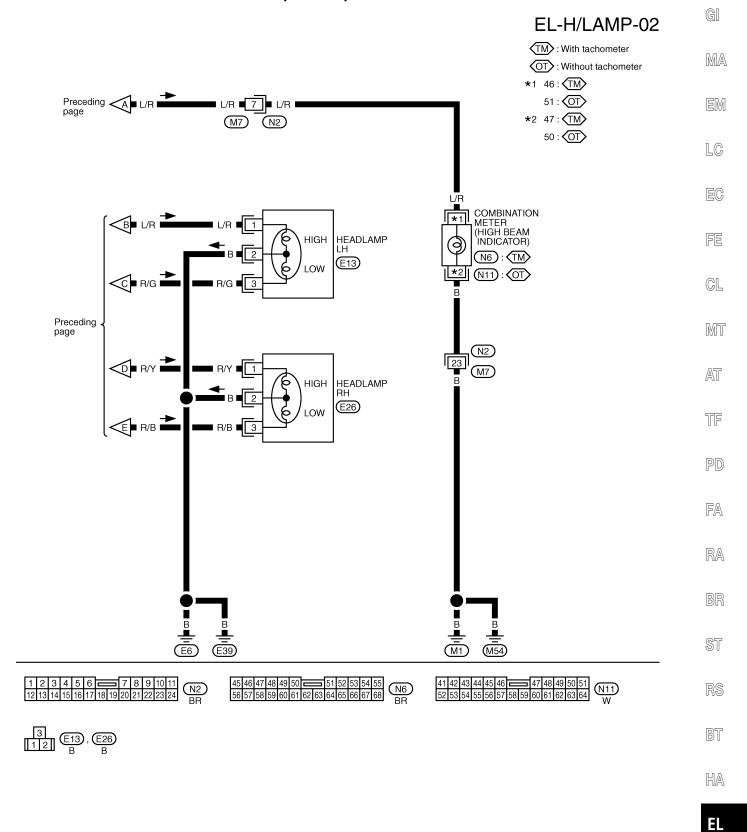
HEL847B

Wiring Diagram — H/LAMP —/LHD Models



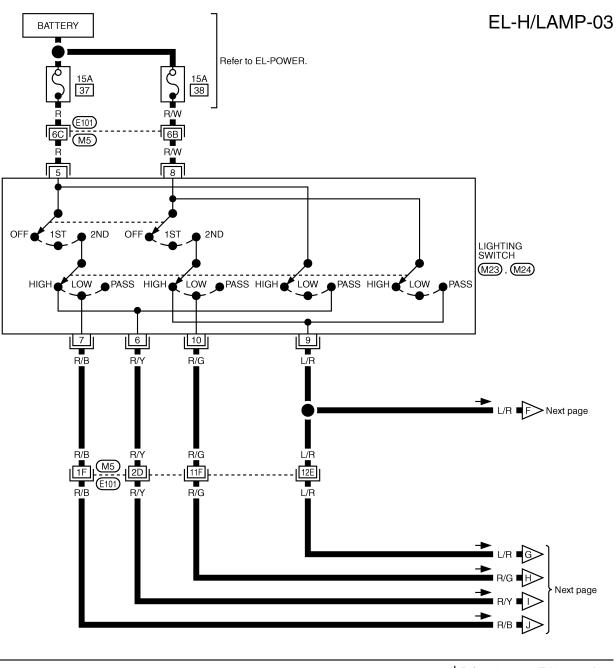


Wiring Diagram — H/LAMP —/LHD Models (Cont'd)



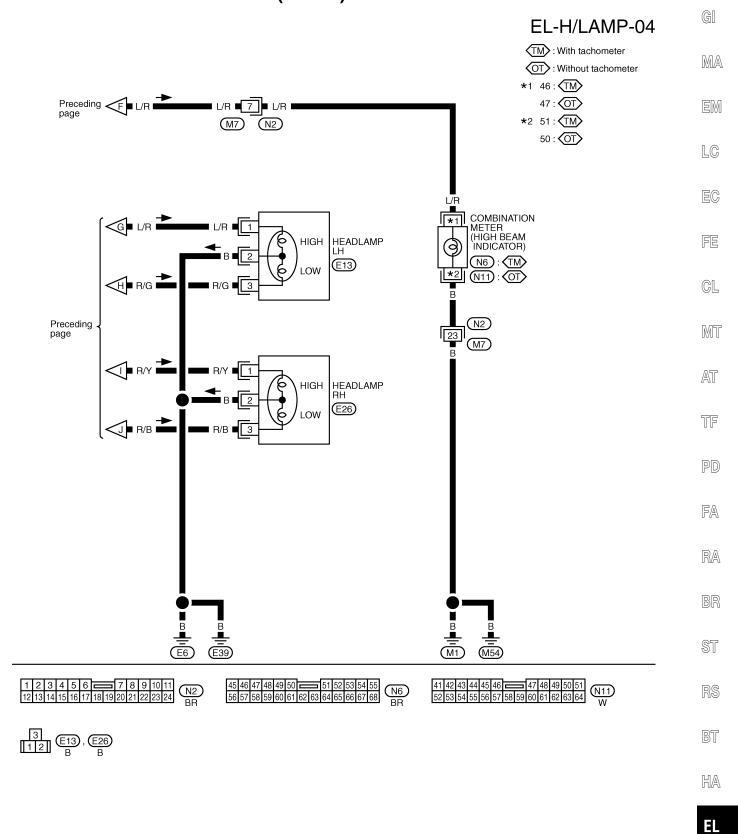
GEL240A

Wiring Diagram — H/LAMP —/RHD Models

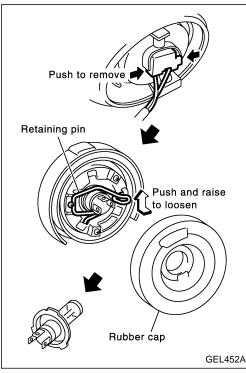


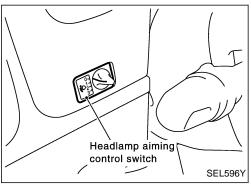


Wiring Diagram — H/LAMP —/RHD Models (Cont'd)



GEL370A





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.

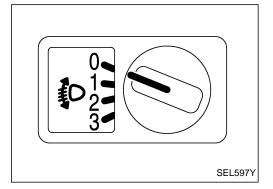
Aiming Adjustment

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.

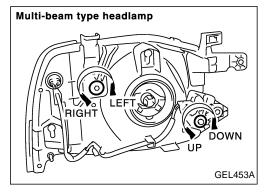
- a. Keep all tires inflated to correct pressures.
- b. Place vehicle and tester on one and same flat surface.
- c. See that there is no-load in vehicle (coolant, engine oil filled up to correct level and full fuel tank) other than the driver (or equivalent weight placed in driver's position).

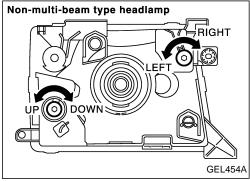


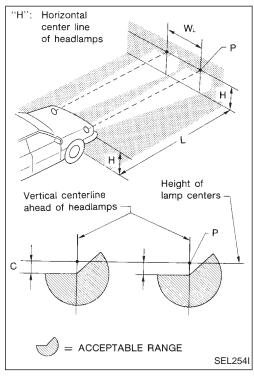
CAUTION:

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.



MA

LC

FC

FE

GL

MT

- 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)

FA

RA

BR

ST

RS

BT

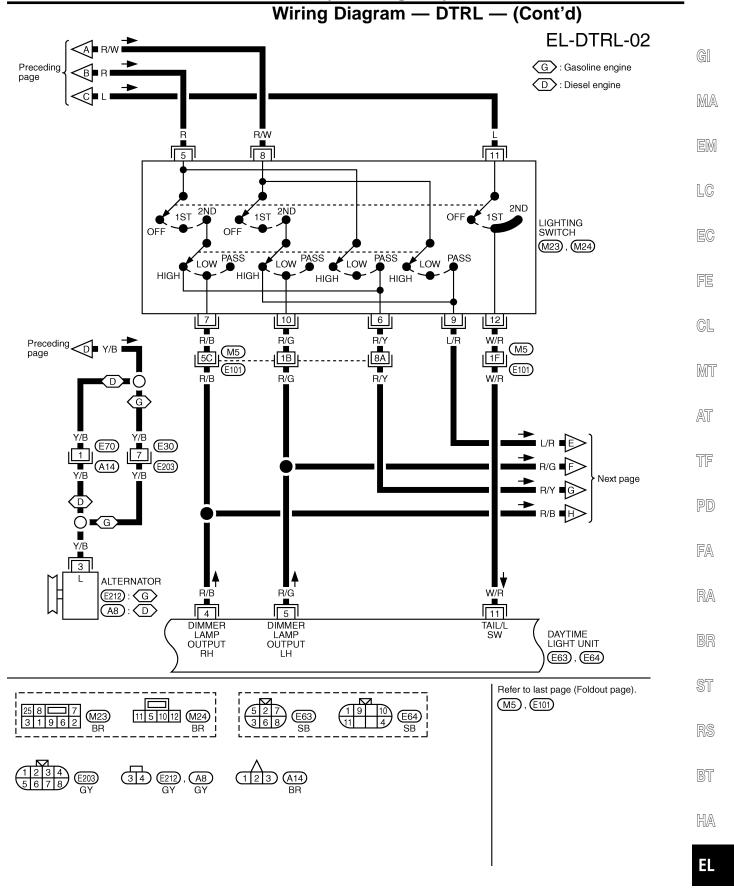
HA

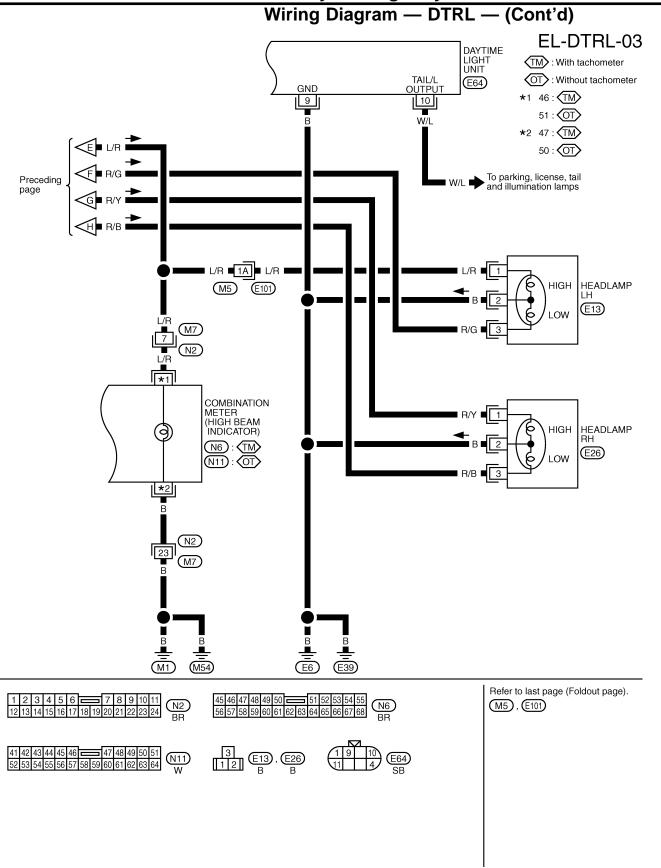
EL

1D)X

Wiring Diagram — DTRL — IGNITION SWITCH ON or START IGNITION SWITCH START **EL-DTRL-01 BATTERY** Refer to EL-POWER. 10A 10A 12 20 11 R/W 8B R/W R/W A (E101) (M5 Next **■** 8C page W/B M7 W/B N2 TM: With tachometer COMBINATION METER (CHARGE WARNING LAMP) OT: Without tachometer **★**1 17:**〈TM**〉 22 : **(OT)** N4), N6) *2 62: TM> : **(TM)** 61 : **(OT)** N10, N11 $\overline{\langle OT \rangle}$ Y/B 8 Y/B N2 $\overline{M7}$ G/Y 12A Y/B G/Y Y/B D Next page R/W Y/B G/Y 3 7 8 6 TAIL RH LH ALT-L DAYTIME LIGHT UNIT FÜSE E63, E64 Refer to last page (Foldout page). M5), E101) 30 31 32 33 34 35 36 37 38 39 40 RR

W





HEADLAMP — Daytime Light System —

Bulb Replacement

For bulb replacement, refer to "HEADLAMP — Conventional Type GI—" EL-30.

MA

Aiming Adjustment

For aiming adjustment, refer to "HEADLAMP — Conventional Type —" EL-30.

EM

LC

EG

FE

CL

MT

AT

TF

PD

FA

RA

BR

ST

RS

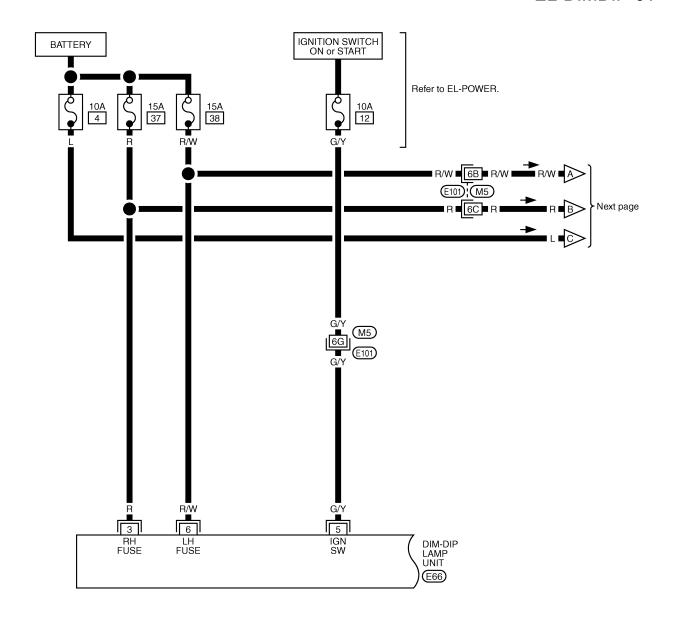
BT

HA

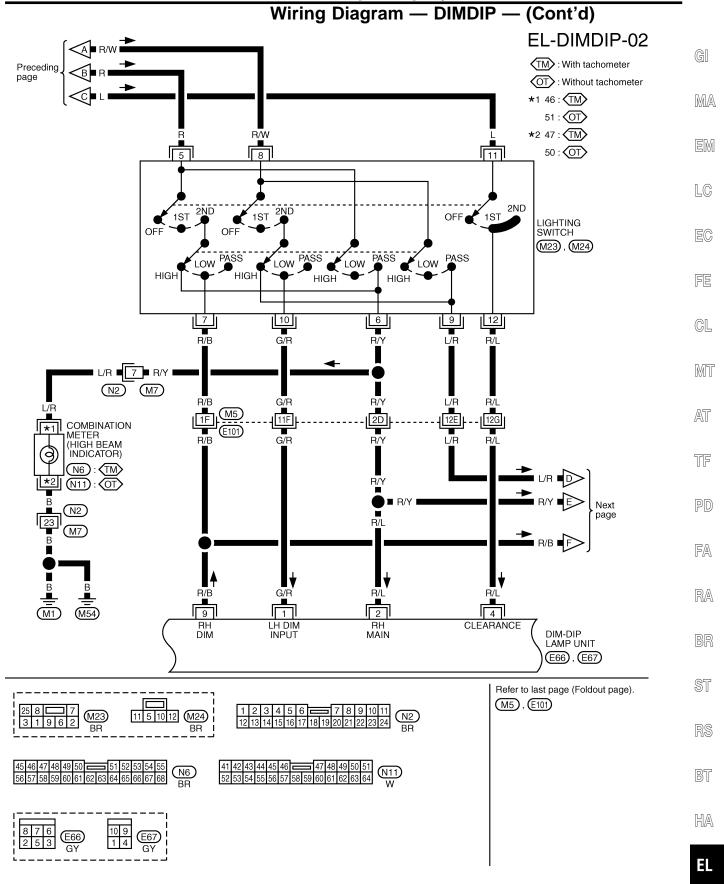
EL

Wiring Diagram — DIMDIP —

EL-DIMDIP-01

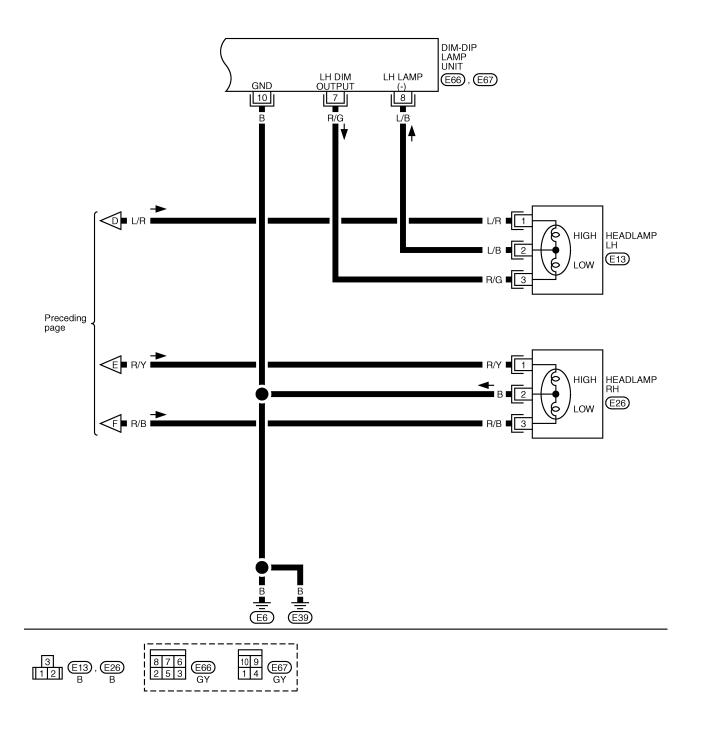






Wiring Diagram — DIMDIP — (Cont'd)

EL-DIMDIP-03



HEADLAMP — Dim-dip Lamp System —

Bulb Replacement

For bulb replacement, refer to EL-30.

GI

Aiming Adjustment

For aiming adjustment, refer to EL-30.

MA

EM

LC

EC

FE

CL

MT

AT

TF

PD

FA

RA

BR

ST

RS

BT

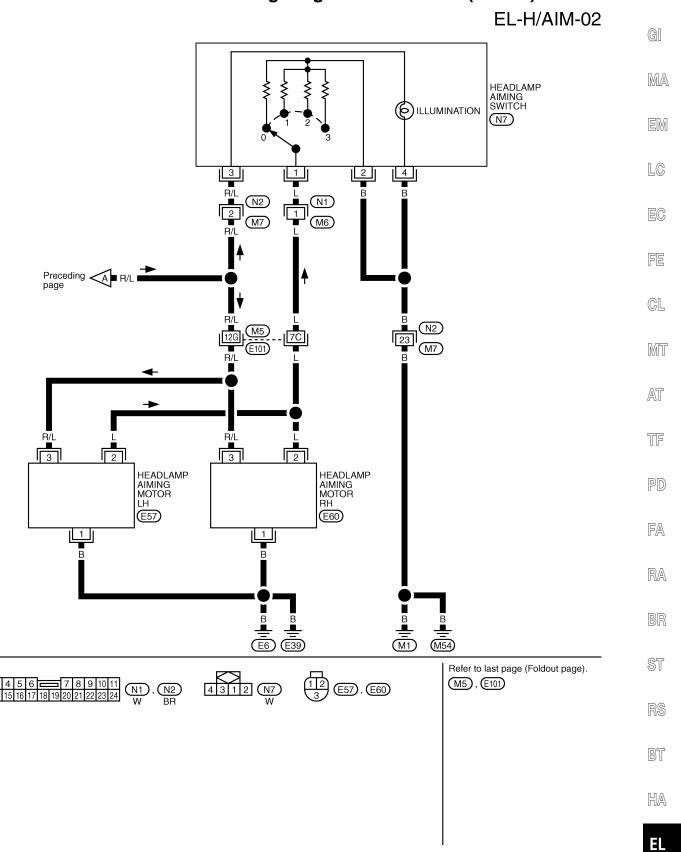
HA

EL

Wiring Diagram — H/AIM — EL-H/AIM-01 BATTERY 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 W/L : ED 11 11 LIGHTING SWITCH LIGHTING SWITCH OFF **1**ST 1ST M24): (EU) M24): (NE) 12 12 W/R R/L A Next page \overline{W}/L 2E V/I W/L (ED)= DL W/R W/L 10 TAIL/L OUTPUT TAIL/L SW DAYTIME LIGHT UNIT (E64) Refer to last page (Foldout page). M5, E101

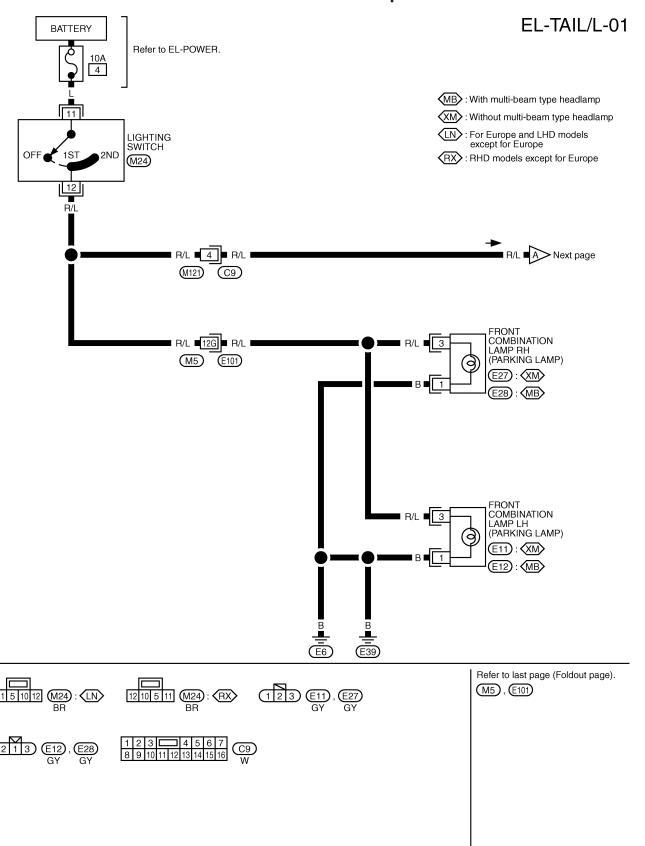
HEADLAMP — Headlamp Aiming Control —

Wiring Diagram — H/AIM — (Cont'd)



GEL378A

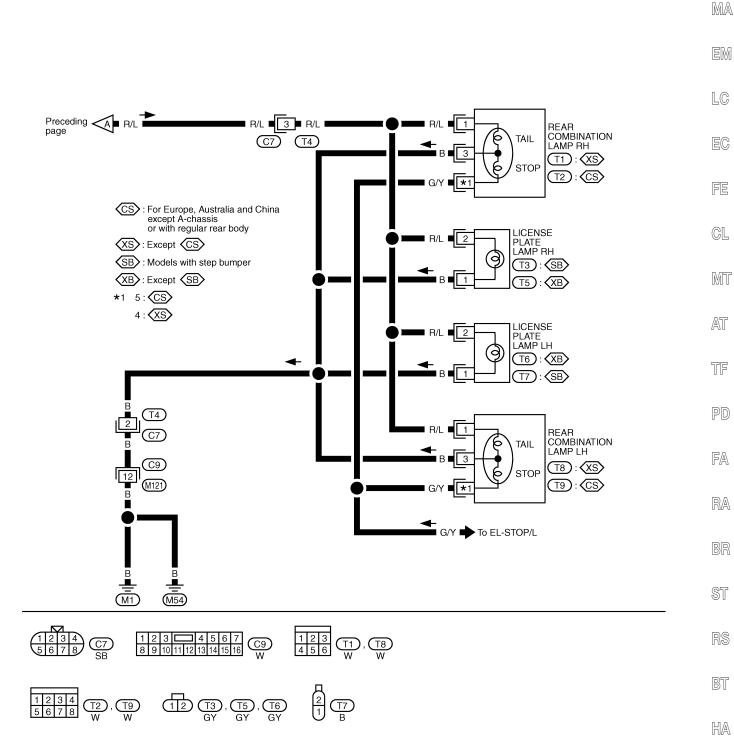
Wiring Diagram — TAIL/L —/Except LHD Models for Europe



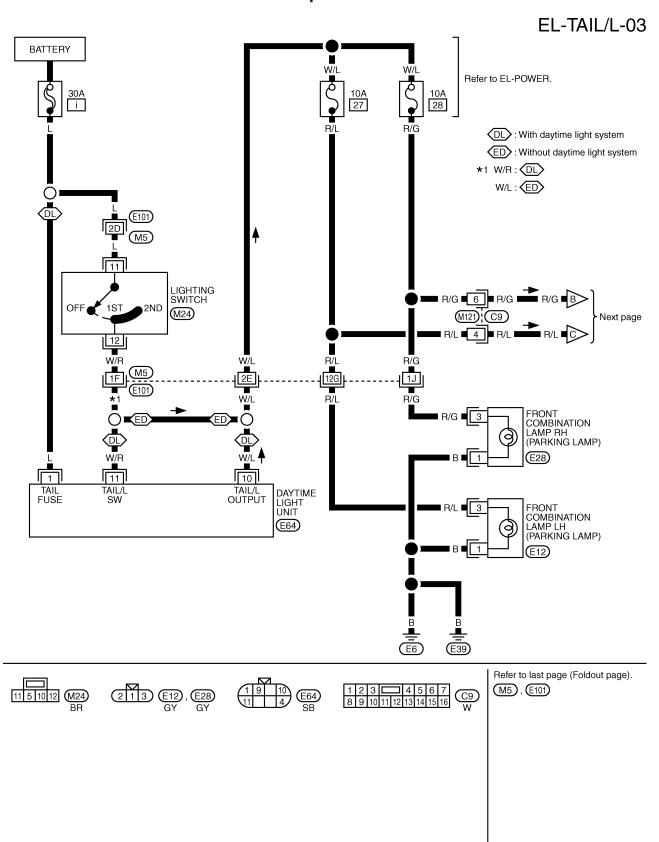
Wiring Diagram — TAIL/L —/Except LHD Models for Europe (Cont'd)

EL-TAIL/L-02

GI

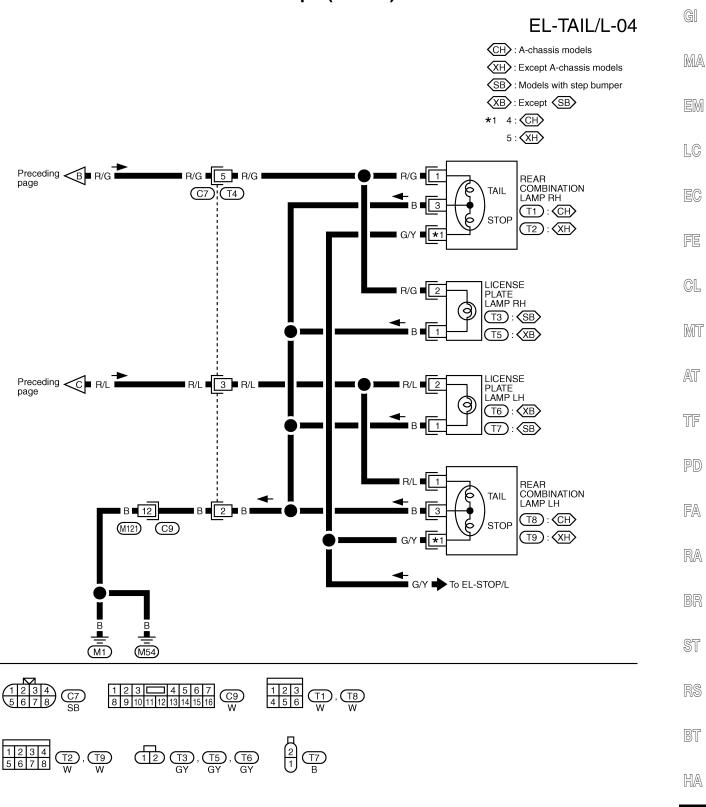


Wiring Diagram — TAIL/L —/LHD Models for Europe



PARKING, LICENSE AND TAIL LAMPS

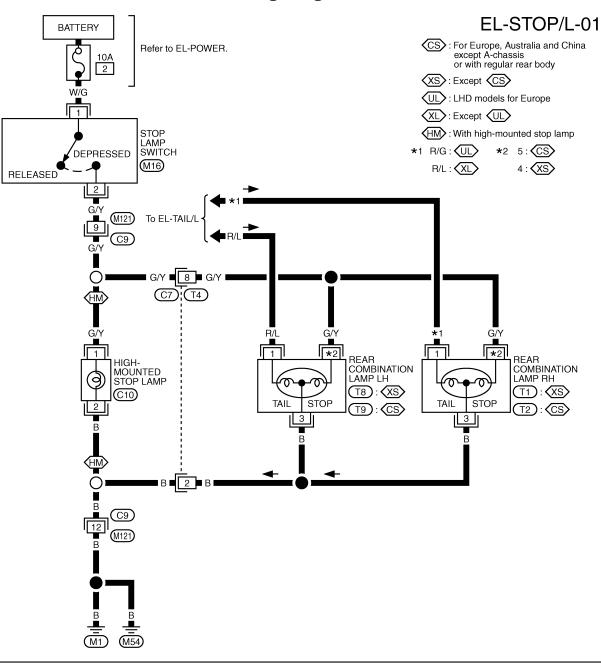
Wiring Diagram — TAIL/L —/LHD Models for Europe (Cont'd)

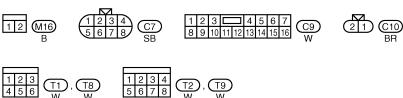


GEL380A

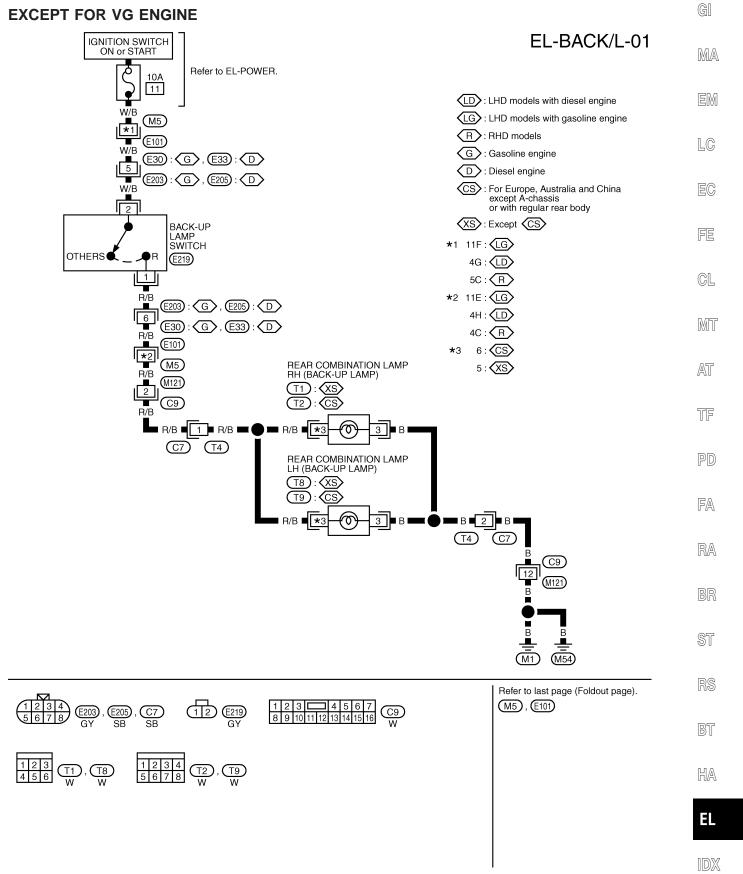
ΕL

Wiring Diagram — STOP/L —



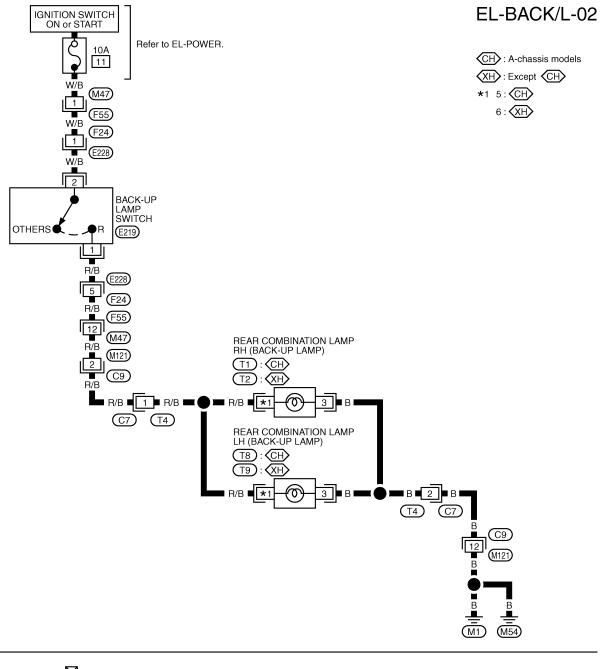


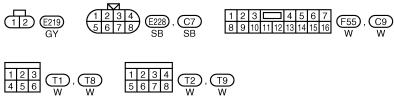
Wiring Diagram — BACK/L —/M/T Models



Wiring Diagram — BACK/L —/M/T Models (Cont'd)

FOR VG ENGINE





Wiring Diagram — BACK/L —/A/T Models

EL-BACK/L-03

GI

MA

LC

EC

FE

GL

MT

AT

TF

PD

FA

RA

BR

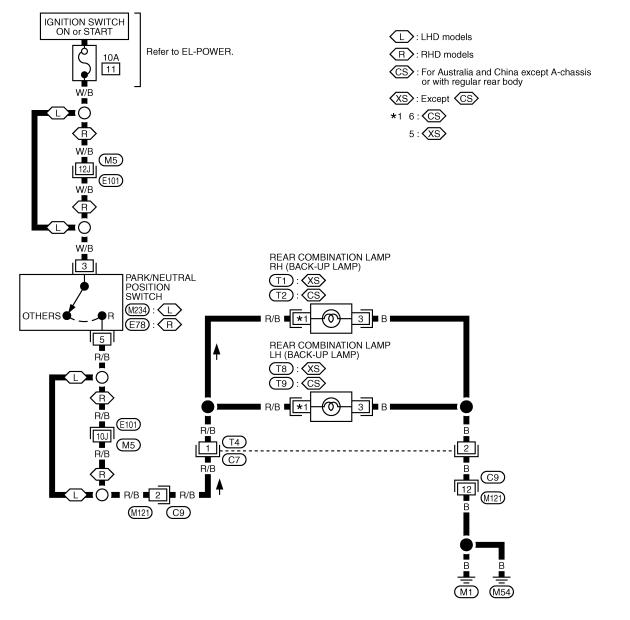
ST

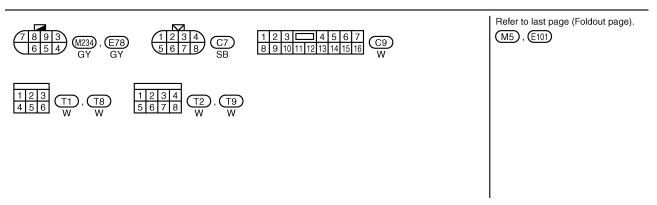
RS

BT

HA

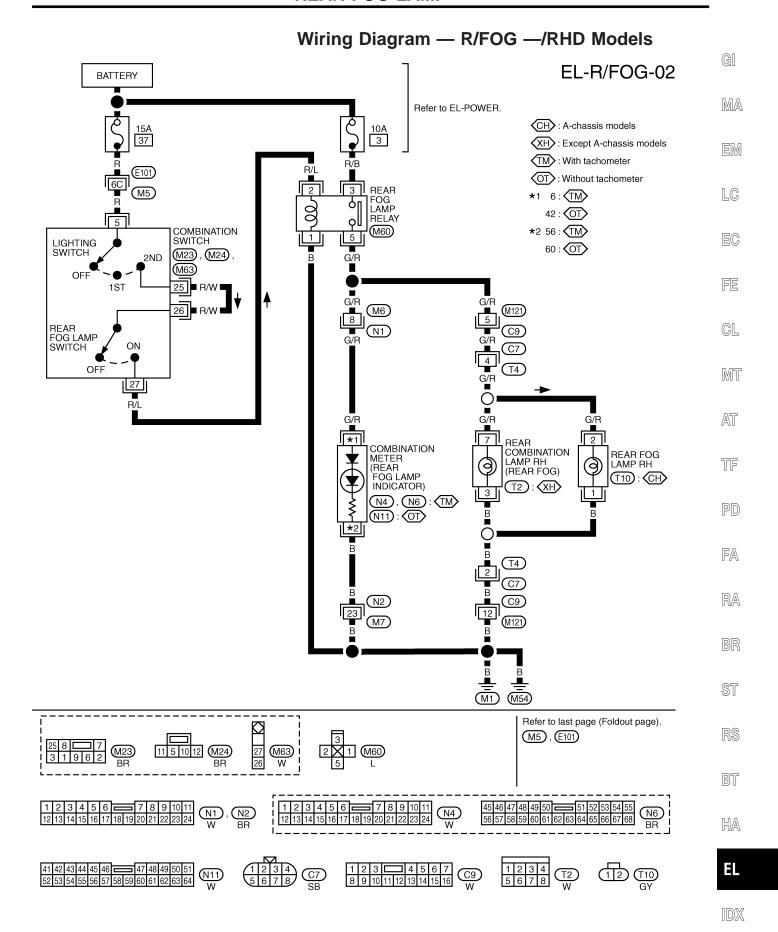
EL





GEL382A

Wiring Diagram — R/FOG —/LHD Models EL-R/FOG-01 BATTERY Refer to EL-POWER. CH : A-chassis models 10A 37 3 XH : Except A-chassis models TM>: With tachometer R/B OT: Without tachometer 3 REAR (M5)**★**1 6:**〈**TM**〉** FOG LAMP RELAY ЬΠ 42 : **(**OT**)** ام ا<u>ق</u>ا *2 56 : (TM) COMBINATION SWITCH (M60) LIGHTING 60 : **(OT)** M23), M24) G/R 2ND (M63) OFF 25 **■** R/W 1ST 26 R/W (M6) (M121) G/R G/R G/R 8 REAR FOG LAMP SWITCH (C9)(N1)G/R ON **C**7 OFF G/R REAR COMBINATION LAMP LH (REAR FOG) COMBINATION METER REAR FOG LAMP LH FOG LAMP INDICATOR) (T12): (CH) T9): (XH) N4), (N6): (TM) N11 : (OT) (T4)23 (N2) \bigcirc 12 $\overline{M1}$ (M54) Refer to last page (Foldout page). M5), E101) M23 (M24) (M63) (M60) W 3 4 5 6 = 7 8 9 10 11 45 46 47 48 49 50 == 51 52 53 54 55 2 3 4 5 6 7 8 9 10 11 (N2) $\overline{N4}$ (N6)C7 SB



TURN SIGNAL AND HAZARD WARNING LAMPS

Wiring Diagram — TURN — IGNITION SWITCH ON or START TM: With tachometer **EL-TURN-01** BATTERY OT : Without tachometer Refer to EL-POWER. MR: With multi-remote control system 10A 10 5 (LN): For Europe and LHD models except for Europe (RX): RHD models except for Europe ■ R/L ➡ To EL-*2 48: \(\tag{TM}\) *3 56: \(\tag{TM}\) *1 11:⟨TM⟩ 38 : **(**OT**)** 64 : **(OT)** 60 : OT 2 3 OFF ON OFF ON HAZARD SWITCH ILLUMI-NATION OFF ON (M41)5 4 6 8 4 LW w/R W/G Next TURN SIGNAL w/R w/G 19 20 M7 LAMP SWITCH N2 (M23) w/R w/G COMBINATION METER *****1 N4), N6) TURN RH (9) TURN LH (TM) N10, N11 *****3 : (OT) П 3 Б w/R ₄ OUT W/G ▲ **POWER** COMBINATION N2) FLASHER UNIT 3 8 23 (M7) FLASHER FLASHER RIGHT LEFT MULTI-REMOTE CONTROL UNIT (M15)В GROUND 2 (M58) В (M54) M125 8 7 M23 : LN BR 7 6 25 3 1 9 8 2 M23 : RX 56 57 58 59 60 61 62 63 64 65 66 67 68

TURN SIGNAL AND HAZARD WARNING LAMPS

Wiring Diagram — TURN — (Cont'd)

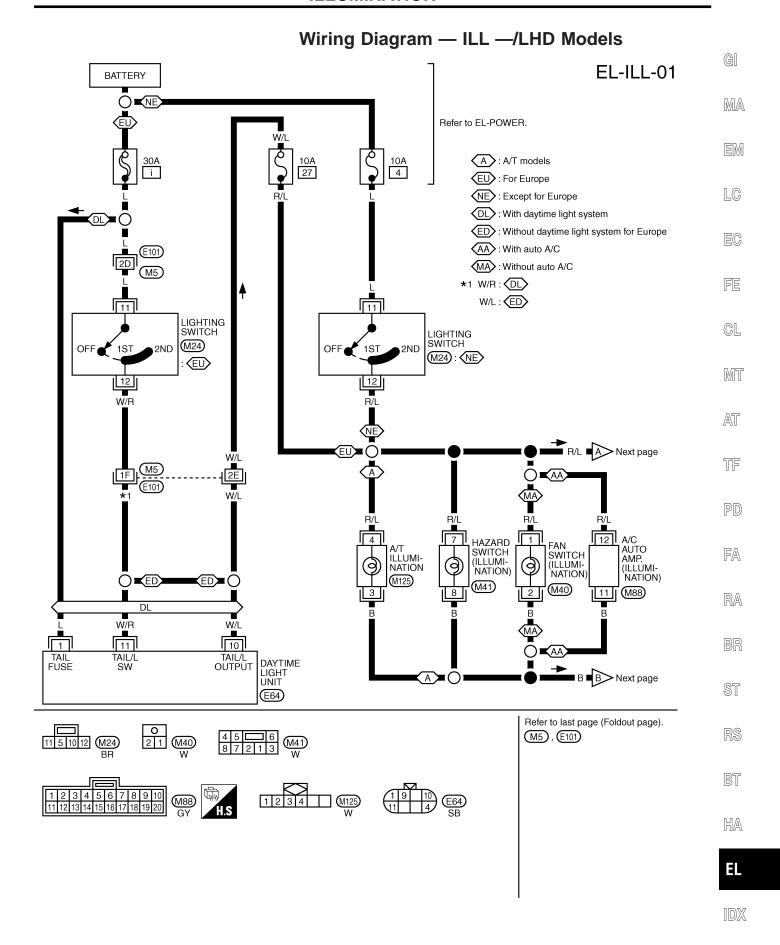
EL-TURN-02 GI ■W/G **■** 3 **■** W/G **■** Preceding (M121) (C9) page MA B W/R ■ W/R ■ 10 ■ W/R 6 W/R 7 (T4) (E101) LC W/G **■**MB EC FE GL W/G W/R W/G W/G W/R FRONT COMBINATION LAMP RH (TURN REAR COMBINATION LAMP RH (TURN SIGNAL) REAR COMBINATION LAMP LH FRONT COMBINATION LAMP LH 2 SIDE TURN 2 2 SIDE TURN SIGNAL LAMP RH SIGNAL (TURN SIGNAL) MT (TÜRN SIGNAL) LAMP LH SIGNAL) (E27) : (XM) T8): **(**XS) (T1): (XS) E11): (XM) E1): (MB) 2 E45): (MB) I 2 T2: (CS) (E28): (MB) (T9): (CS) (E12): (MB) AT TF (T4)PD O **≖**MB CS : For Europe, Australia and China except A-chassis FA or with regular rear body (M121) XS: Except CS RA MB : With multi-beam type headlamp XM : Without multi-beam type headlamp 8 : **CS** 6: XS (E6) M1(M54) ST Refer to last page (Foldout page). M5), E101) RS 1 2 3 4 5 6 T1 , T8 W BT HA EL

[DX

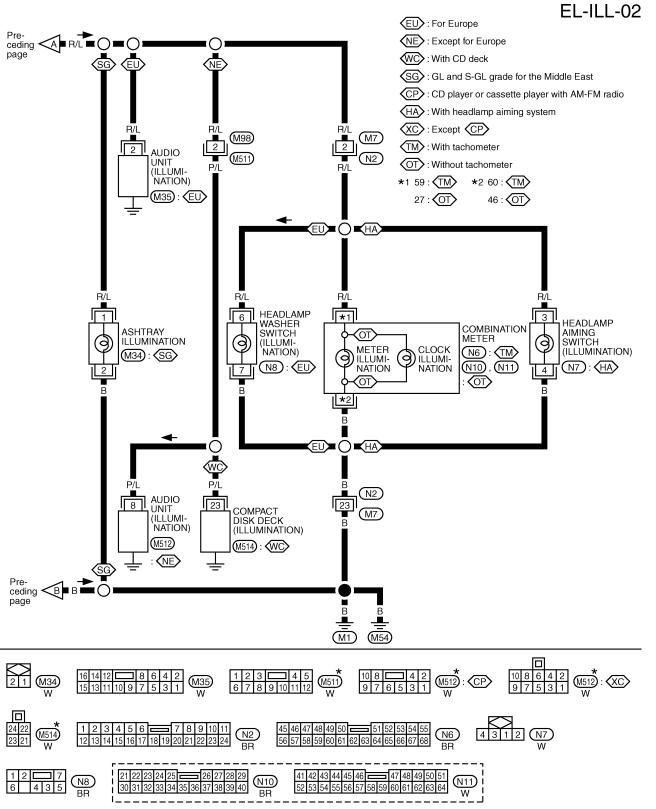
TURN SIGNAL AND HAZARD WARNING LAMPS

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	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.
	Turn signal switch Open in turn signal switch circuit	Check turn signal switch.
Hazard warning lamps do not operate but turn signal lamps operate.	1. 10A fuse	Check 10A fuse (No. 5, located in fuse block). Verify battery positive voltage is present at terminal (R/Y) of hazard switch.
	Hazard switch Open in hazard switch circuit	 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.	1. Bulb 2. Grounds E6 and E39	 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 (Cont'd)



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

Wiring Diagram — ILL —/RHD Models GI EL-ILL-03 BATTERY Refer to EL-POWER. (EU): For Europe MA 10A NE: Except For Europe 4 ⟨AA⟩ : With auto A/C (MA): Without auto A/C VA : A/T models with VG engine CP : CD player or cassette player with AM-FM radio LC LIGHTING SWITCH XC: Except CP> 1ST_ 2ND *1 R/L: (EU) (M24)EC P/L: NE 12 2 : **(EU)** R/L 8 : (NE) FE GL ■ ○■AA MT (M98) AT TF 12 AUDIO UNIT (ILLUMINATION) A/C AUTO AMP. (ILLUMINATION) HAZARD SWITCH (ILLUMINATION) FAN SWITCH (ILLUMINATION) A/T ILLUMINATION M35 : (EU) PD (M40) (M88) 11 FA RA BR ST O 2 1 (M40) W RS 12 10 5 11 M24 : NE> BT 1 2 3 4 5 6 M125 W HA

GEL387A

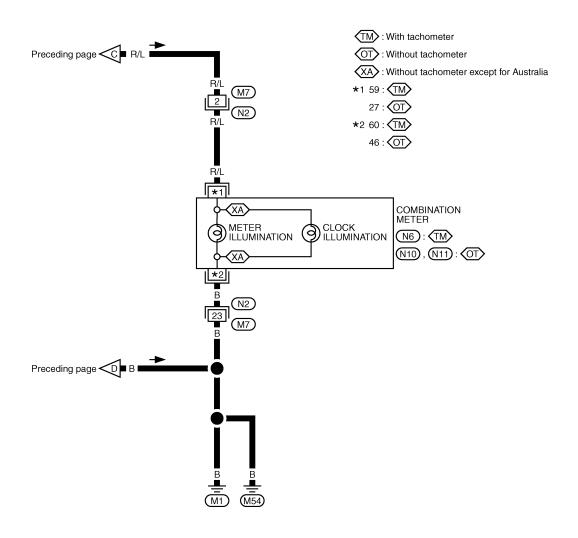
EL

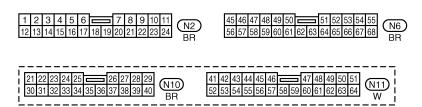
[DX

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

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

EL-ILL-04





Wiring Diagram — ROOM/L — GI (EU): For Europe EL-ROOM/L-01 **BATTERY** XU: Except for Europe Refer to EL-POWER. MA 10A AD: For Australia and models with multi-remote control system 3 R/B M19 2 R1 R/B R/B R/B (DS): Double cab models (For Australia and models with multi-remote control system) KS: Single cab and King cab models (M19) (DC): Double cab models R1 *1 2: EU LC 1 : XU EC R/Y R/B $\lceil 1 \rceil$ FRONT FE DOOR SWITCH (DRIVER (3) OPEN **INTERIOR** SIDE) INTERIOR ROOM LAMP ROOM LAMP GL M103 : XU CLOSED ON OFF ON OFF R5), R6) M118 : ŒU R4): (KS) DOOR DOOR $\langle \overline{\mathbb{C}} \rangle$ MT 2 3 (M19) FRONT DOOR SWITCH (PASSENGER SIDE) AT R1 **OPEN** TF CLOSED (M104) : (AD) PD FA RA REAR DOOR SWITCH LH REAR DOOR SWITCH RH OPEN OPEN BR (R2): (DS) (R7): (DS) CLOSED CLOSED ₿ ST $\overline{M1}$ (M54) 1 2 3 RS $\begin{array}{c} \Pi \\ 1 \\ B \end{array}, \begin{array}{c} M103 \\ B \end{array}, \begin{array}{c} R2 \\ B \end{array}, \begin{array}{c} R7 \\ B \end{array}$ 1 2 3 4 5 6 R1 W [1] R5 [2] (R6) (R4) BT

GEL389A

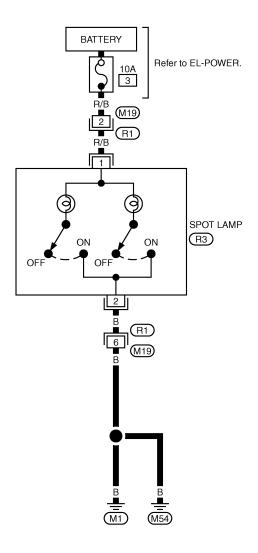
HA

EL

[DX

Wiring Diagram — INT/L —

EL-INT/L-01







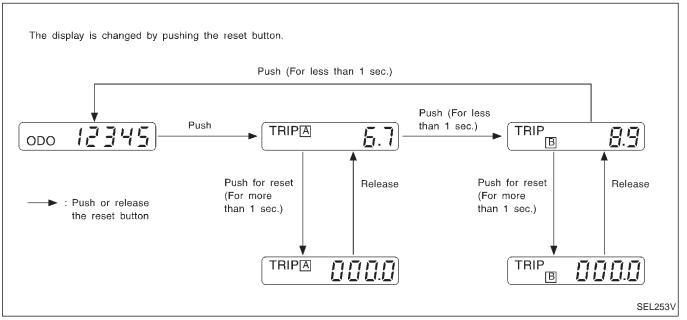
METER AND GAUGES

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.

GI

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EM

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EC

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FA

RA

91

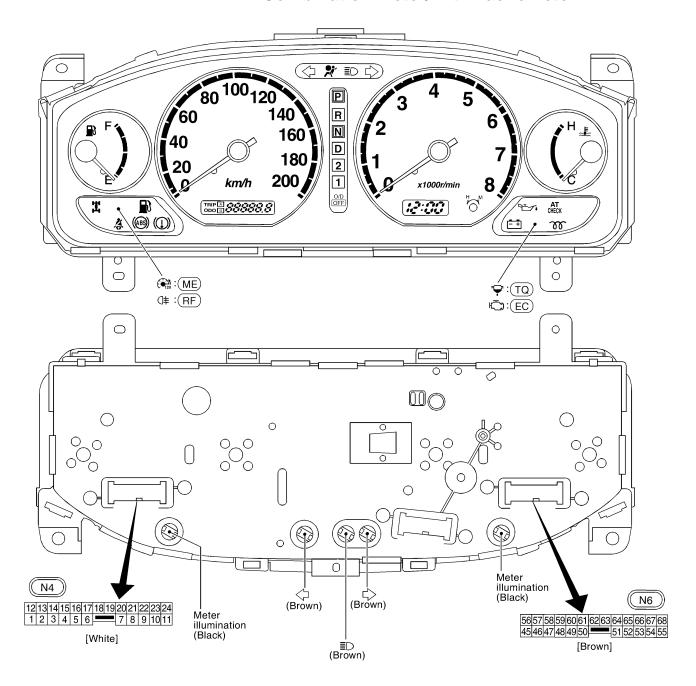
RS

RT

HA

EL

Combination Meter/With Tachometer

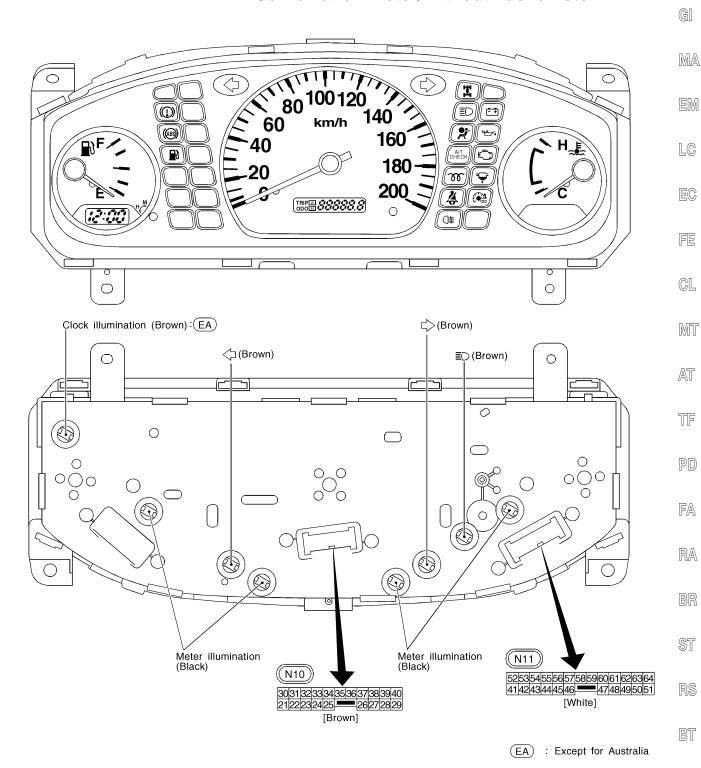


Bulb socket color	Bulb wattage
Brown	1.4W
Black	3.0W

(): 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



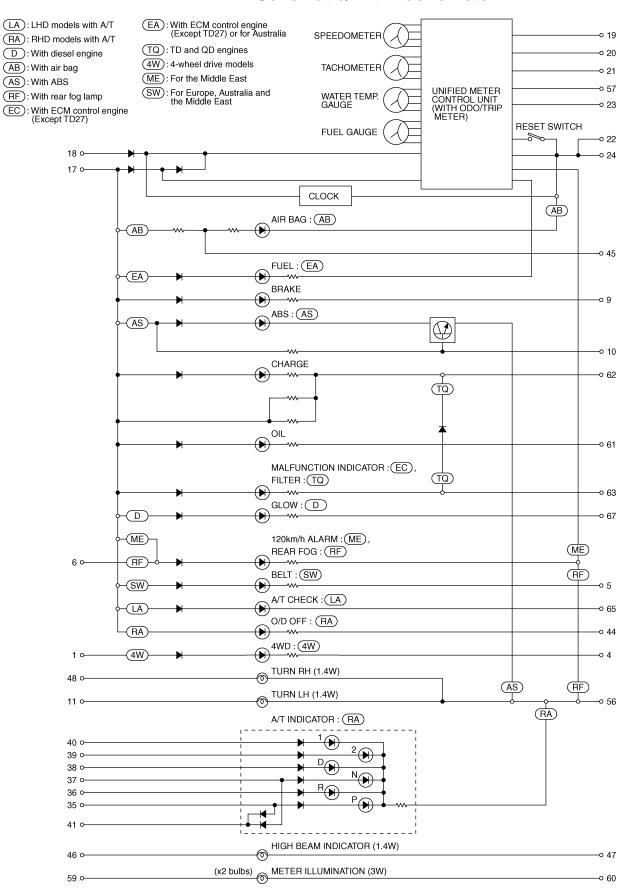
Bulb socket color	Bulb wattage
Brown	1.4W
Black	3.0W

(): Bulb socket color

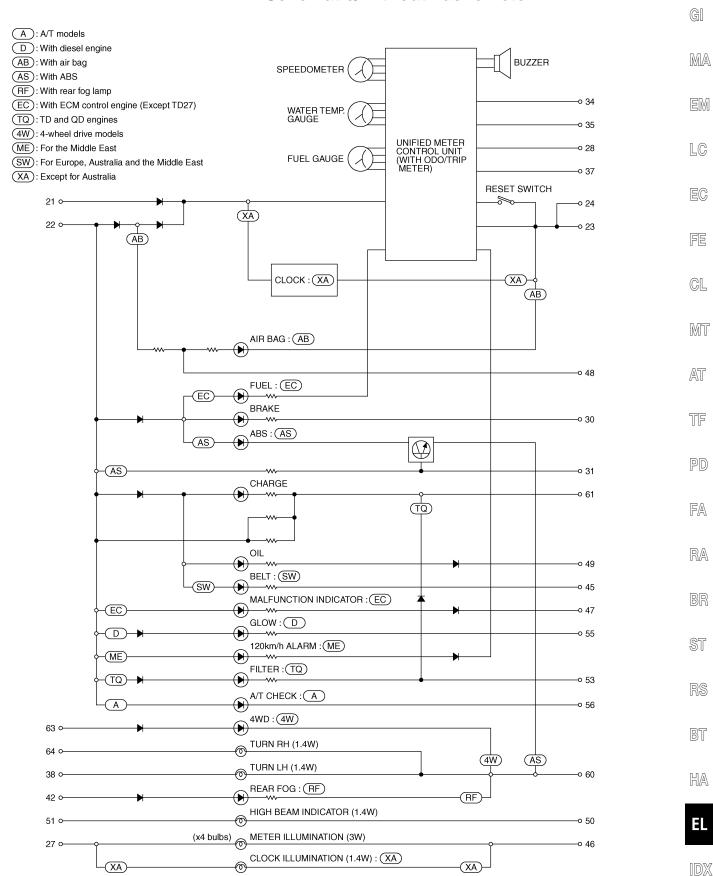
HA

ΕL

Schematic/With Tachometer



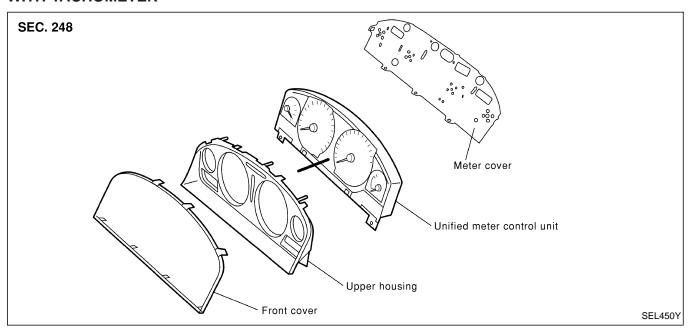
Schematic/Without Tachometer



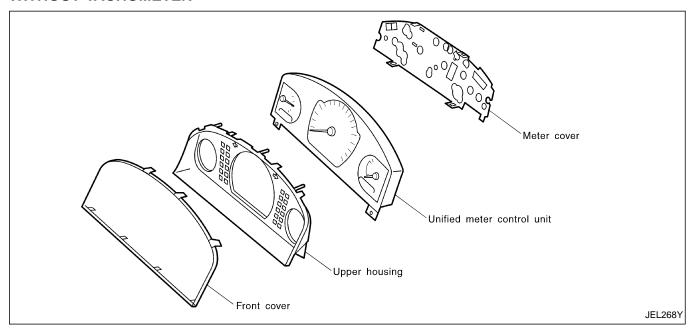
METER AND GAUGES

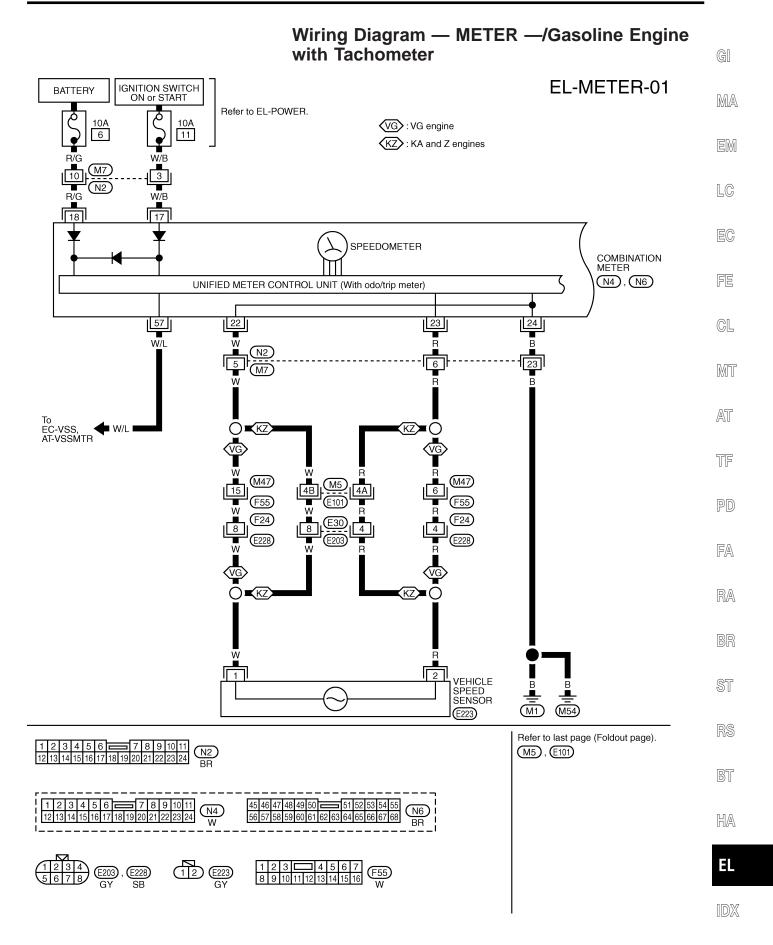
Construction

WITH TACHOMETER

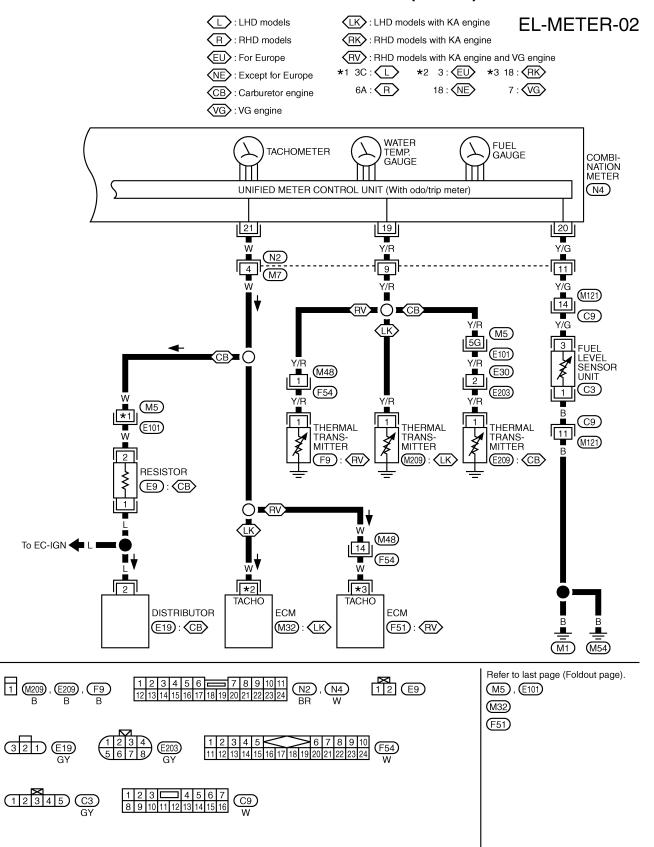


WITHOUT TACHOMETER



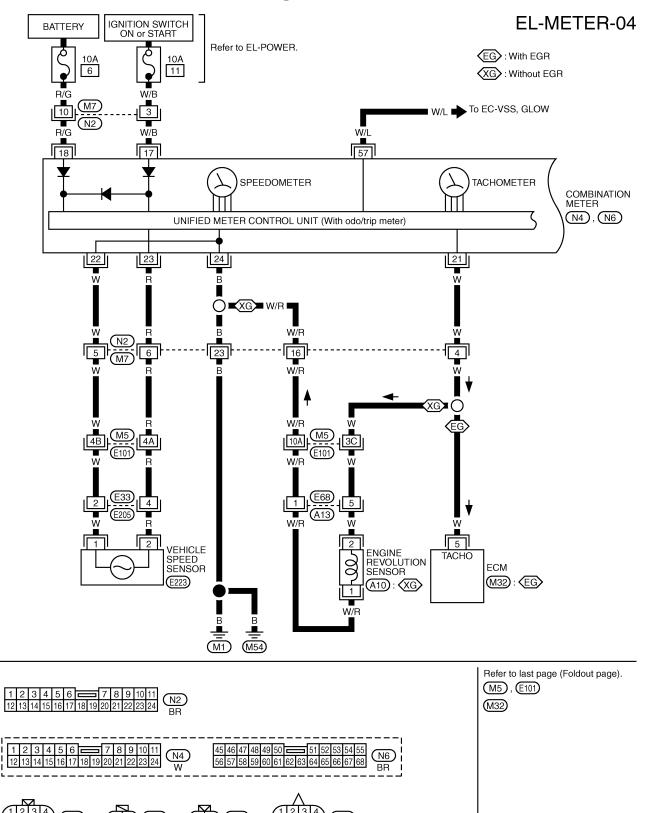


Wiring Diagram — METER —/Gasoline Engine with Tachometer (Cont'd)

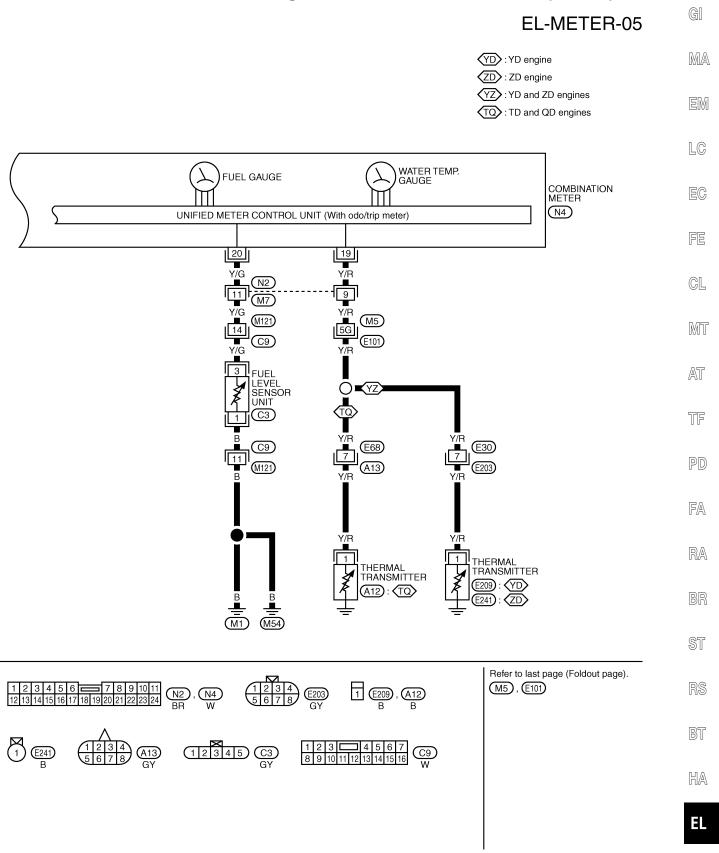


Wiring Diagram — METER —/Gasoline Engine without Tachometer GI **EL-METER-03** IGNITION SWITCH ON or START **BATTERY** MA Refer to EL-POWER. 10A 6 CB : Carburetor engine 11 (LK): LHD models with KA engine (RK): RHD models with KA engine (N2) R/G 21 LC EC WATER TEMP. GAUGE FUEL GAUGE SPEEDOMETER COMBI-NATION METER FE UNIFIED METER CONTROL UNIT (With odo/trip meter) (N10) 28 24 37 34 35 GL W/L 11 Y/G 14 Y/G 3 6 6 MT Y/R AT FUEL LEVEL SENSOR UNIT RK CB TF ⟨Īĸ⟩ M5 VEHICLE SPEED SENSOR \bigcirc 3 Y/R 2 (E101) PD (M48) (E30) (C9)11 (F54) (E203) (M121) y/R FA To EC-VSS, AT-VSSMTR RA BR THERMAL TRANS-MITTER THERMAL TRANS-MITTER THERMAL TRANS-MITTER (M209) : (LK) (E209): (CB) ST F9): **(**RK) (M1)(M54) RS Refer to last page (Foldout page). 1 M209 , E209 , F9 B (M5), (E101) BT HA 12345 C3 GY EL IDX

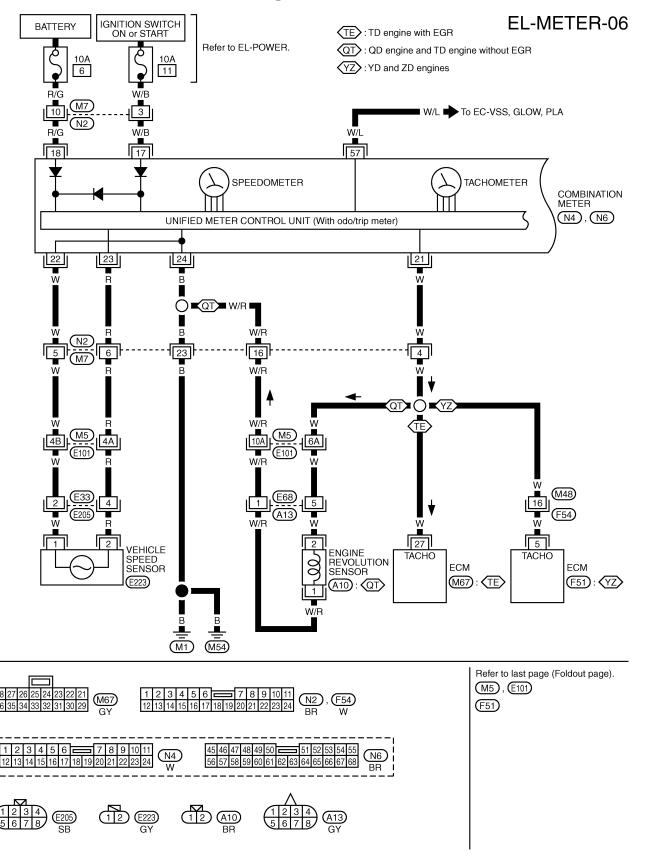
Wiring Diagram — METER —/LHD Diesel Engine Models with Tachometer



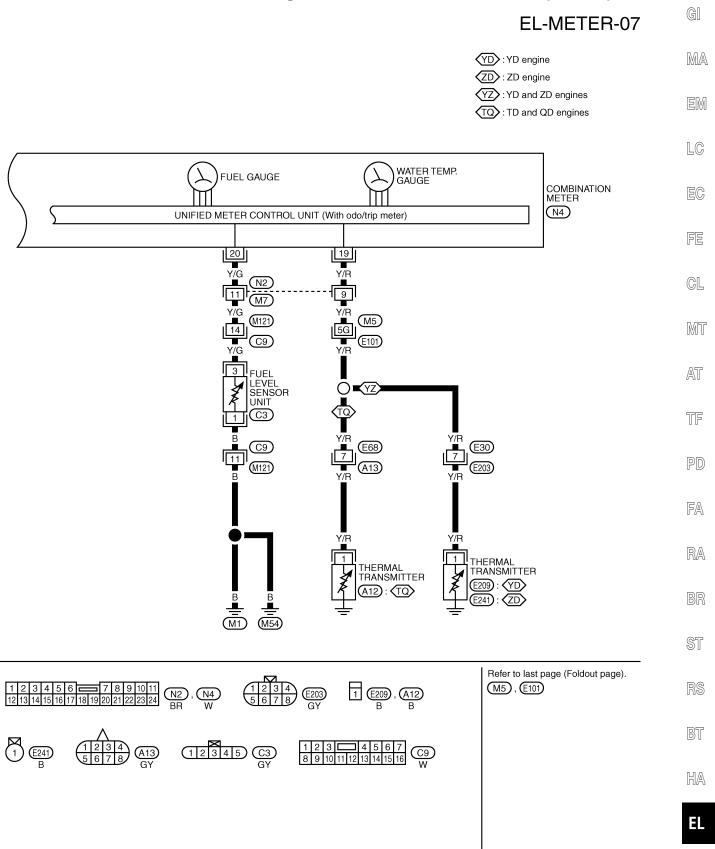
Wiring Diagram — METER —/LHD Diesel Engine Models with Tachometer (Cont'd)



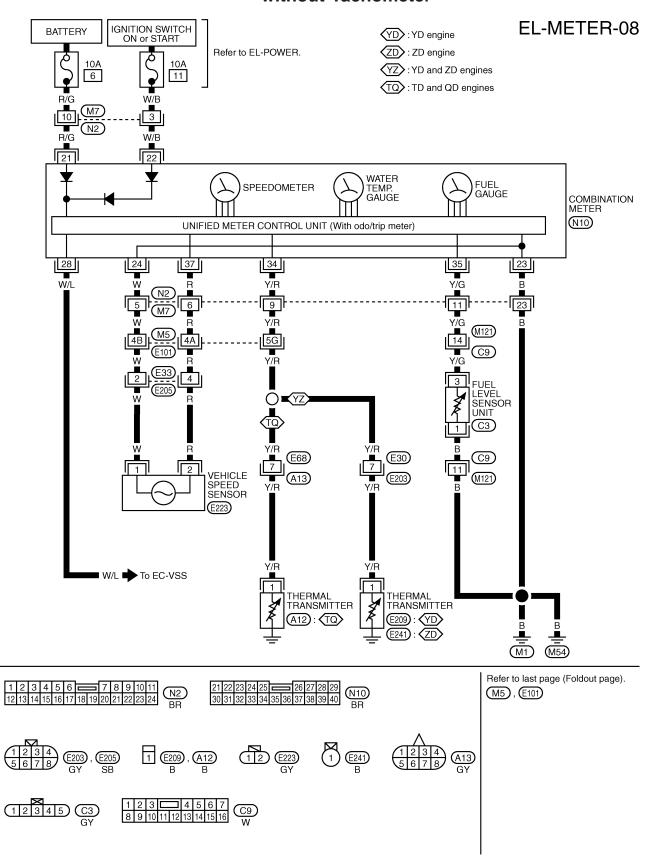
Wiring Diagram — METER —/RHD Diesel Engine Models with Tachometer



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



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.

MA

HOW TO ALTERNATE DIAGNOSIS MODE

EM

LC

- 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.















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.



TF





FA

RA

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.



gauge to become stable.





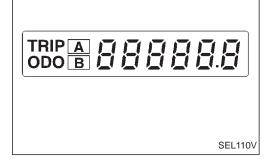




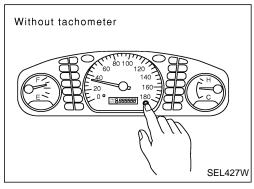




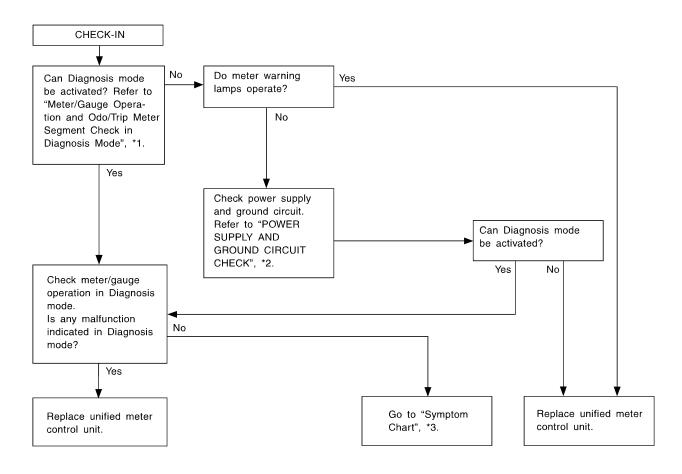




With tachometer SEL111VA



Trouble Diagnoses/With Tachometer PRELIMINARY CHECK



SEL269Y

*2:POWER SUPPLY AND GROUND CIRCUIT CHECK (EL-77)

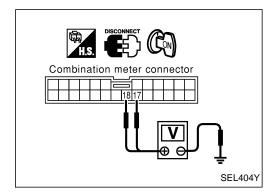
*3:Symptom Chart (EL-76)

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 Service Manual.)
- Wa	- Fuel gauge - Water temp. gauge . Unified meter control unit	vice Manual.) INSPECTION/FUEL LEVEL SENSOR UNIT INSPECTION/THERMAL TRANS- MITTER 2. Replace unified meter control unit.

Before starting trouble diagnoses below, perform PRELIMINARY CHECK, EL-76.

^{*1:}Meter/Gauge Operation and Odo/ Trip Meter Segment Check in Diagnosis Mode (EL-75)



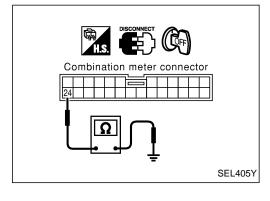
Trouble Diagnoses/With Tachometer (Cont'd) POWER SUPPLY AND GROUND CIRCUIT CHECK

Power supply circuit check

Terminals		Ignition switch position				
_	\oplus	Θ	OFF	ACC	ON	- MA
_	(8 (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage	- EM
	① (W/B)	Ground	0V	0V	Battery voltage	- LG
	NIO ala a ala 4	la a d'alla collega	-			<u> </u>

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	
② - Ground (B)	Yes	

G[

GL

FE

MT

- AT

TF

PD

FA

RA

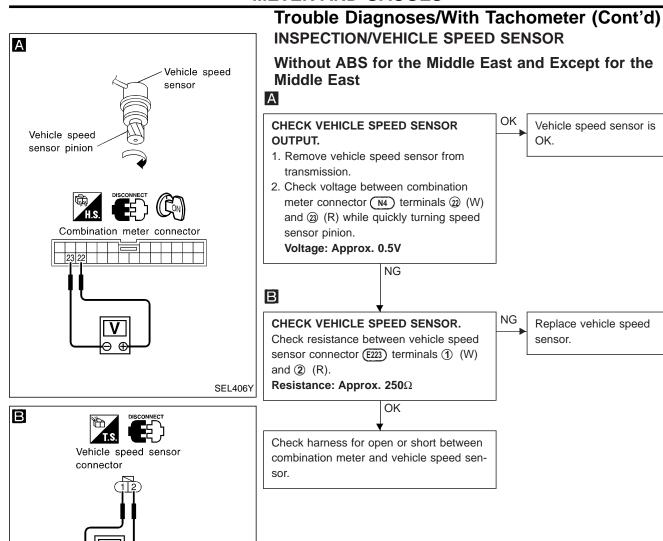
BR

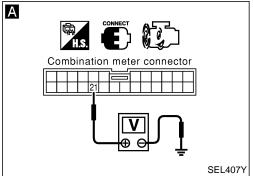
ST

RS

BT

HA





SEL447VA

INSPECTION/ENGINE REVOLUTION SIGNAL

CHECK ECM OUTPUT.

1. Start engine.

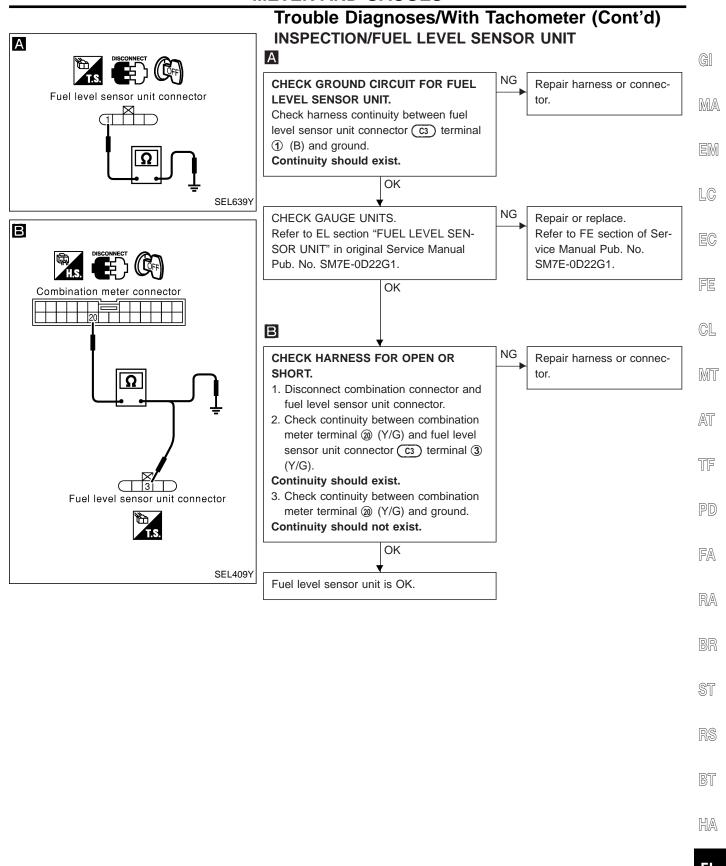
2. Check voltage between combination meter terminal ② (W) and ground at idle and 2,000 rpm.

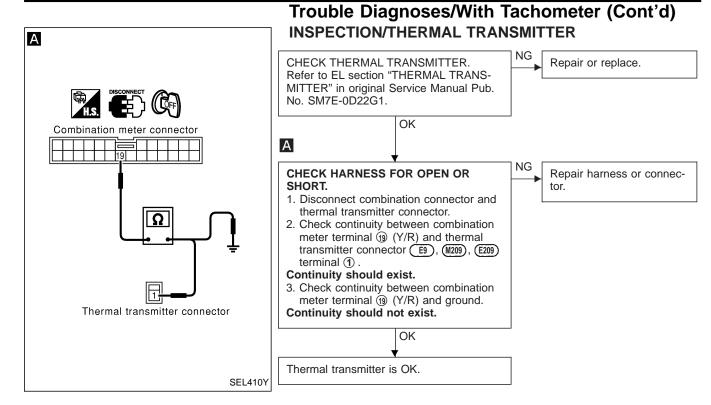
Higher rpm = Higher voltage
Lower rpm = Lower voltage
Voltage should change with rpm.

Check the following.

Harness for open or short between ECM

and combination meter





Yes

Trouble Diagnoses/Without Tachometer PRELIMINARY CHECK

GI



MA

LC

EC

FE

GL

MT

AT

TF

PD

FA

RA

BR

SEL269Y

*1:Meter/Gauge Operation and Odo/ Trip Meter Segment Check in Diagnosis Mode (EL-75)

CHECK-IN

Can Diagnosis mode

Segment Check in Diagnosis Mode", *1.

Check meter/gauge operation in Diagnosis

Is any malfunction

indicated in Diagnosis

Replace unified meter

control unit.

Yes

mode.

mode?

be activated? Refer to "Meter/Gauge Operation and Odo/Trip Meter

Yes

No

No

Do meter warning

Check power supply

and ground circuit. Refer to "POWER

GROUND CIRCUIT

SUPPLY AND

CHECK", *2.

No

lamps operate?

*2:POWER SUPPLY AND GROUND CIRCUIT CHECK (EL-82)

Go to "Symptom

Chart", *3.

*3:Symptom Chart (EL-81)

control unit.

Replace unified meter

Can Diagnosis mode

No

be activated?

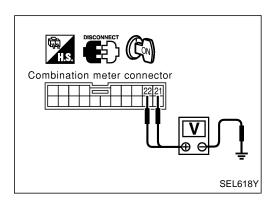
Yes

SYMPTOM CHART

Symptom	Possible causes	Repair order	ST
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-	RS
Multiple meter/gauge are malfunctioning.	 - Fuel gauge - Water temp. gauge 2. Unified meter control unit 	vice Manual.) INSPECTION/FUEL LEVEL SENSOR UNIT INSPECTION/THERMAL TRANS-	BT
(except odo/trip meter)		MITTER 2. Replace unified meter control unit.	HA

Before starting trouble diagnoses below, perform PRELIMINARY CHECK, EL-81.

3



Trouble Diagnoses/Without Tachometer (Cont'd)

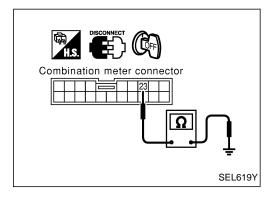
POWER SUPPLY AND GROUND CIRCUIT CHECK

Power supply circuit check

	Terminals		Ignition switch position		
	\oplus	Θ	OFF	ACC	ON
	② (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
-	② (W/B)	Ground	0V	0V	Battery voltage

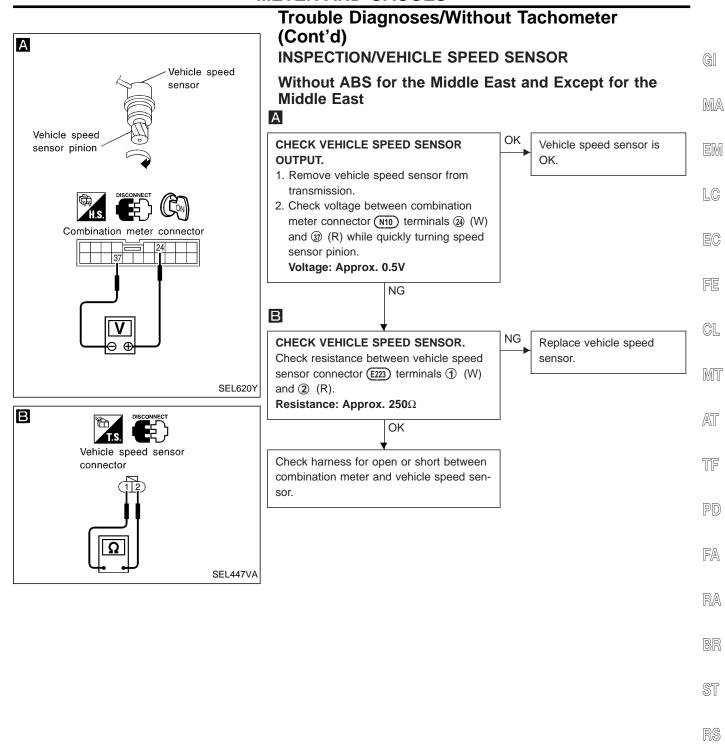
If NG, check the following.

- 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	
③ - Ground (B)	Yes	

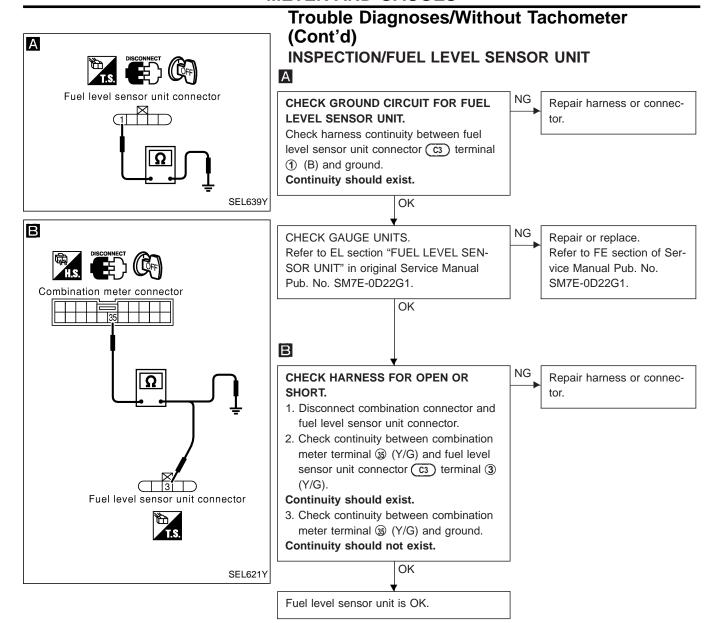


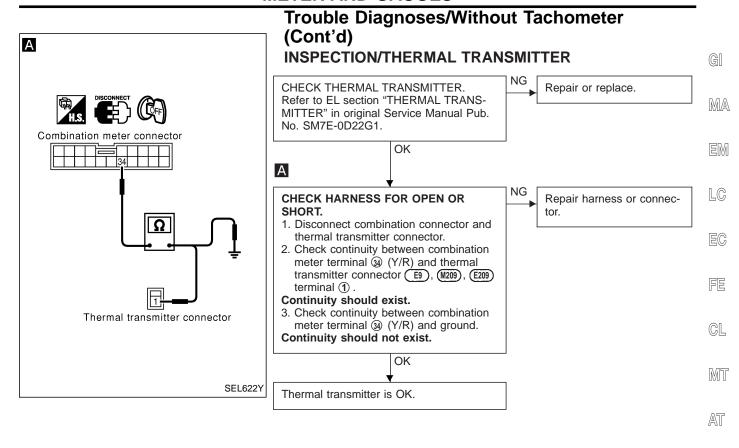
EL

BT

HA

 $\mathbb{D}X$





TF

PD

FA

RA

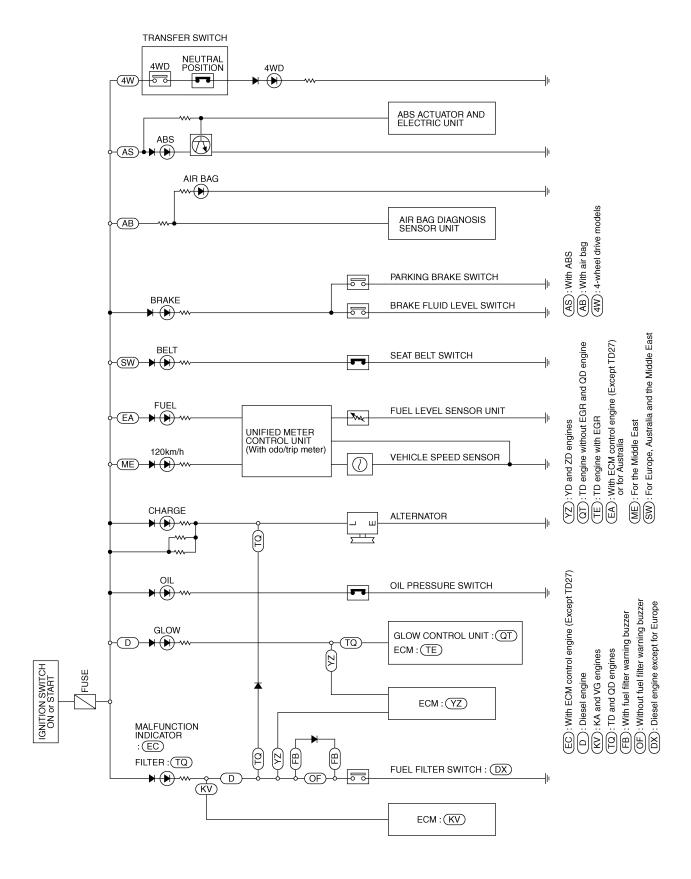
ST

RS

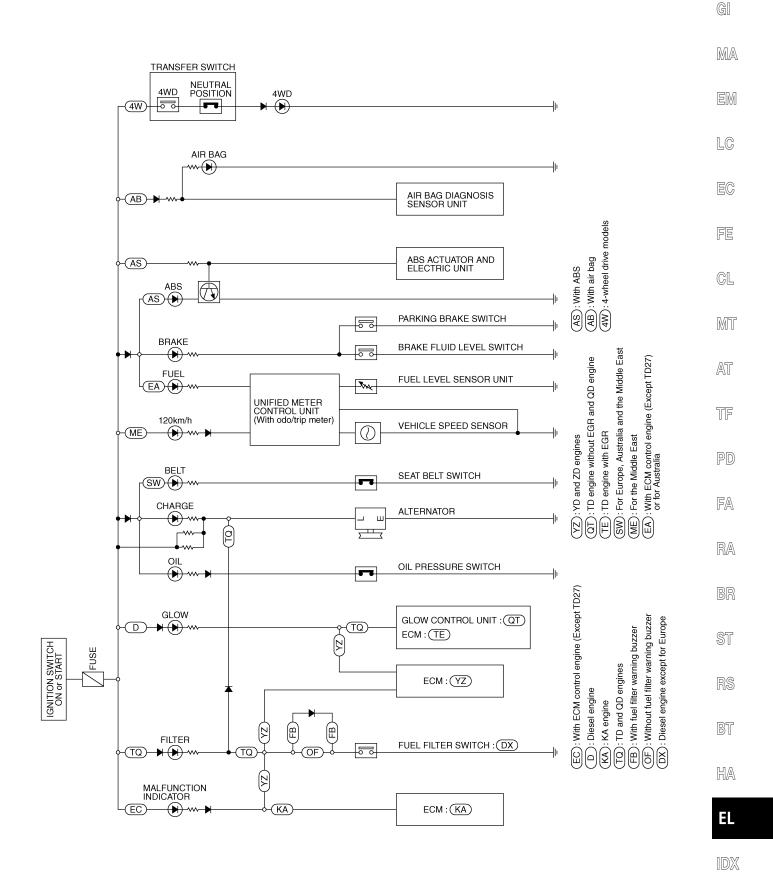
BT

HA

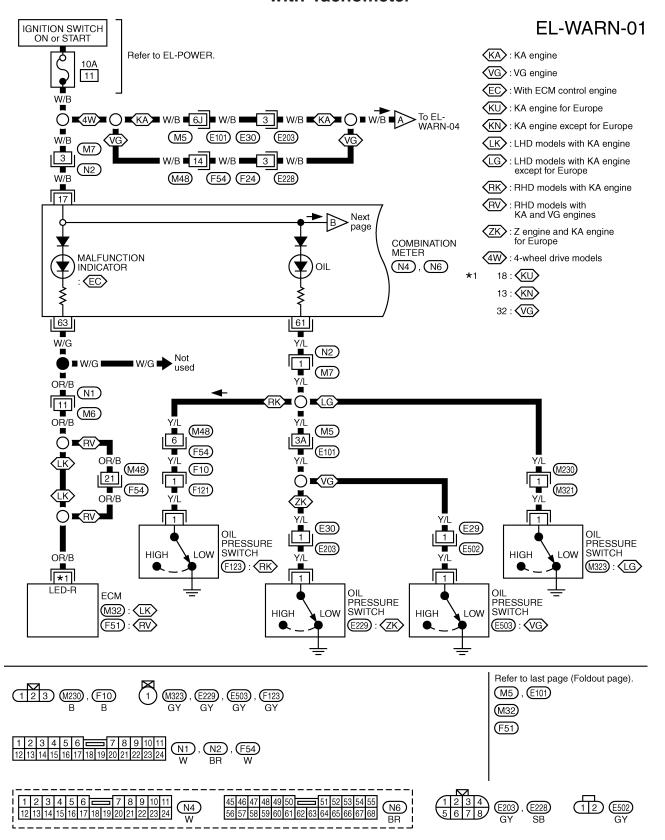
Schematic/With Tachometer



Schematic/Without Tachometer



Wiring Diagram — WARN —/Gasoline Engine with Tachometer



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

G[EL-WARN-02 MA Preceding B page page COMBINATION METER UNIFIED METER CONTROL UNIT (With odo/trip meter) 12<u>0km</u>/h CHARGE (ME) (EA) N4, N6 LC page Next 20 62 22 5 23 Y/B N2

| 8 | M7

Y/B M5
| 5.0 | 101

Y/B | 101

Y/B | 203

Y/B | 203

Y/B | 33 Y/G ME: For the Middle East To EL-METER $\overline{M7}$ (M7) VG>: VG engine FE XV : Except for VG engine (M121) EA: With ECM control engine or for Australia GL SW : For Europe, Australia 3 and the Middle East FUEL LEVEL **SENSOR** UNIT MT \bigcirc 3 **E**73 (A3) 11 \bigcirc AT (M121) ALTERNATOR ALTERNATOR TF (E211), (E212) (A7), (A8) BELT SWITCH UNFASTENED FASTENED ⟨VG⟩ $\langle xv \rangle$ M109 : (SW) PD 2 FA E204 RA ST $\overline{(A1)}$ (M54) (E39) (E6) $\overline{M1}$ 1 2 3 Refer to last page (Foldout page). RS (M5), (E101) (M109) BT (N6)© 2 (E211), (A7) HA 12 (A3) GY E204 GY (E212), (A8) GY

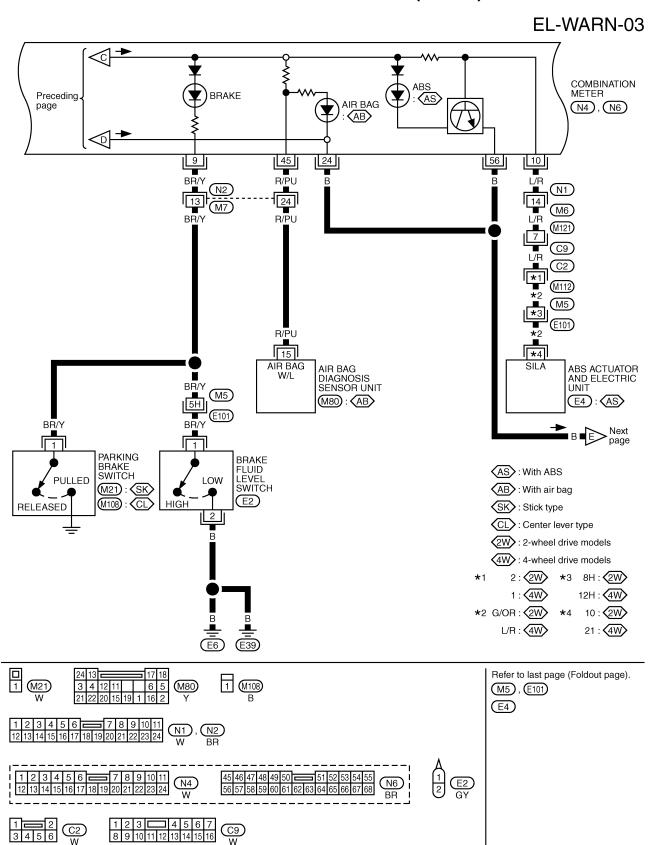
GEL401A

EL

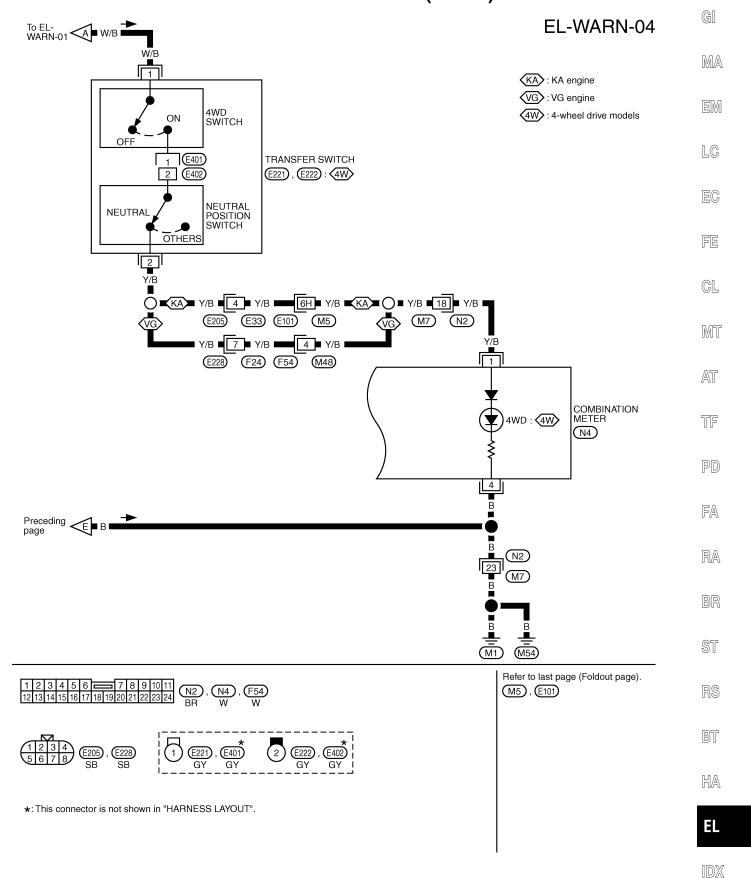
[DX

12345 C3 GY

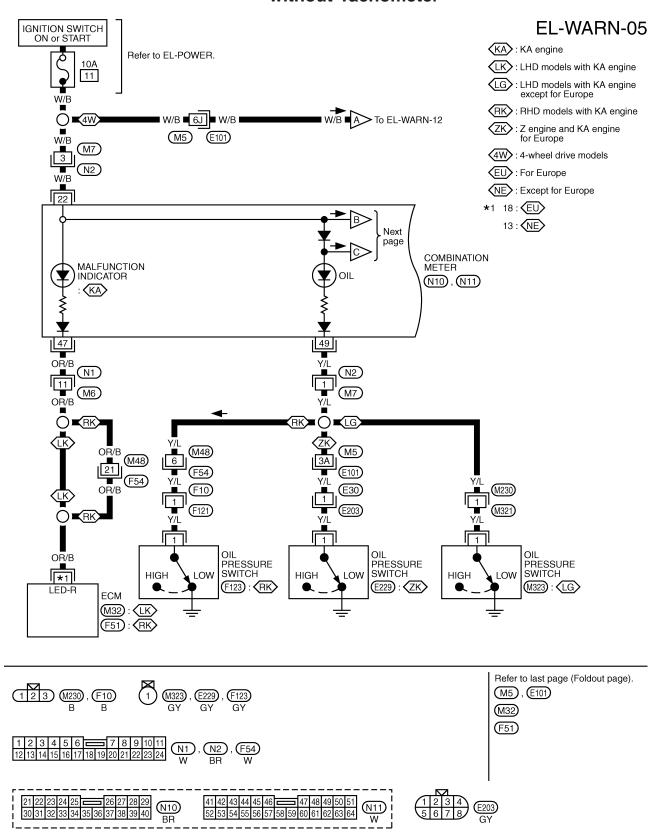
Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)

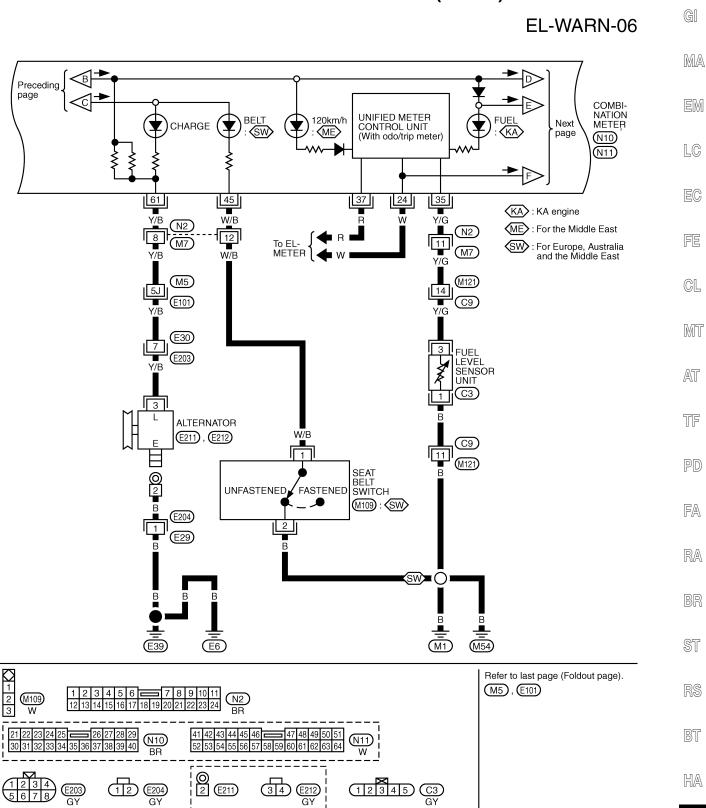


Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)



Wiring Diagram — WARN —/Gasoline Engine without Tachometer

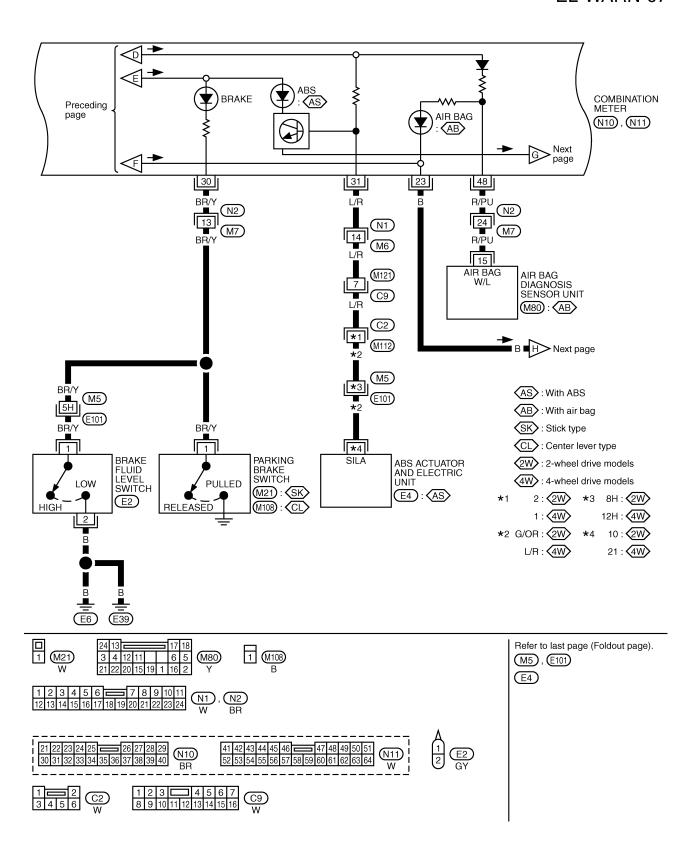


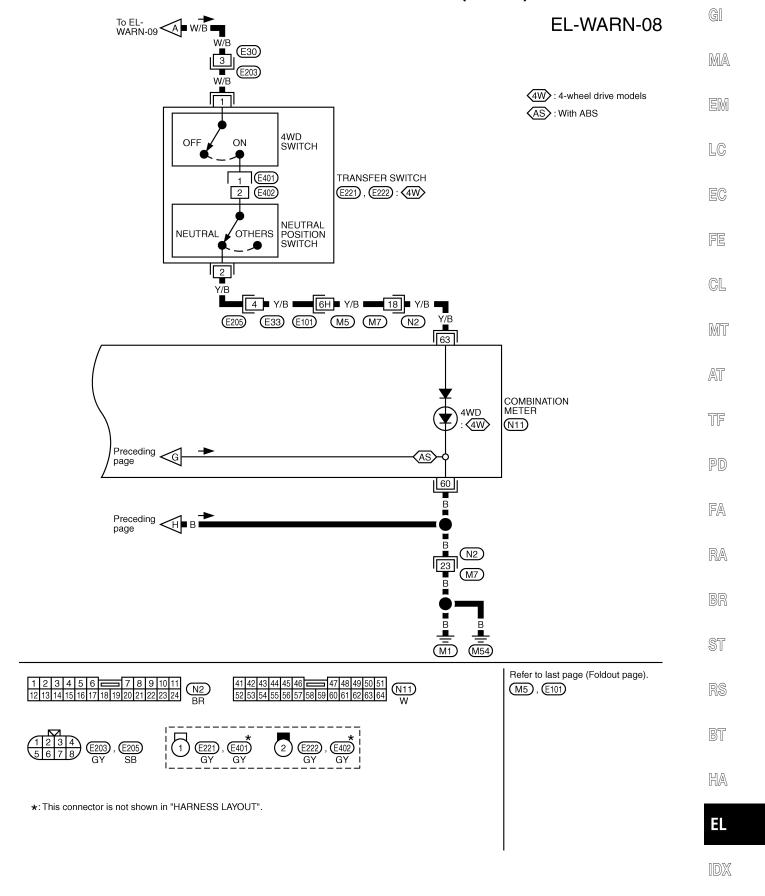


GEL410A

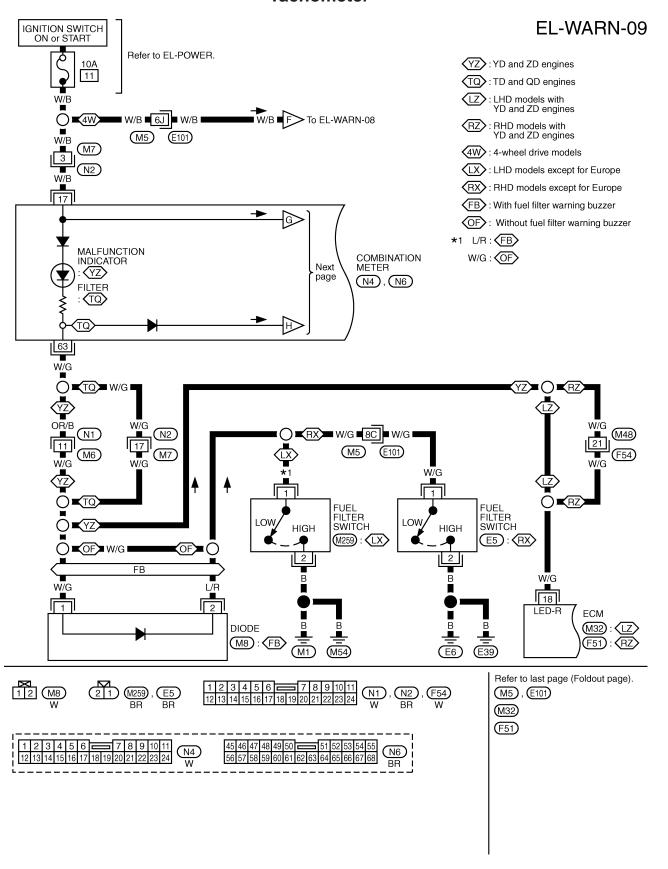
ΕL

EL-WARN-07



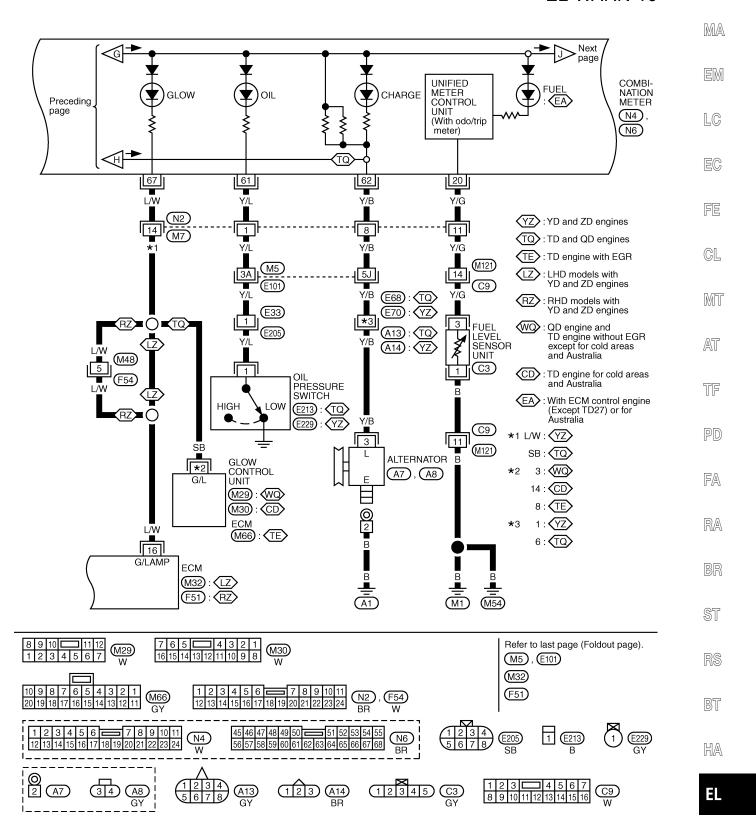


Wiring Diagram — WARN —/Diesel Engine with Tachometer

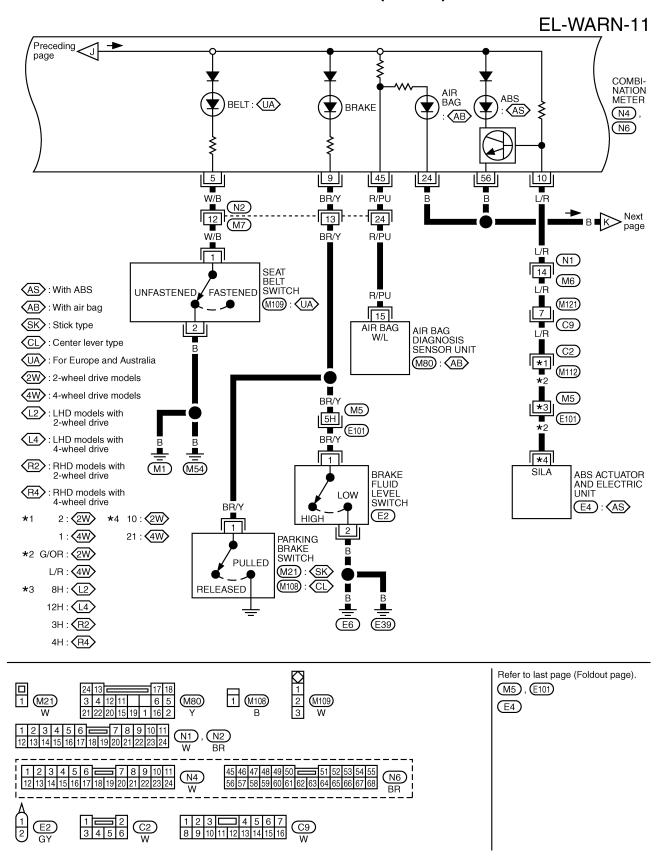


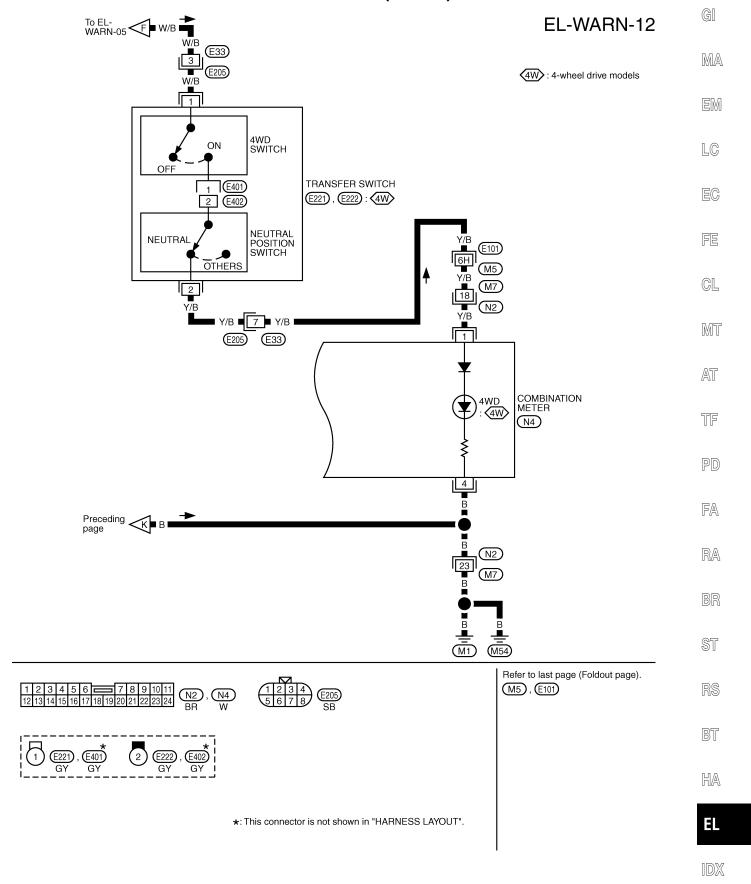
EL-WARN-10

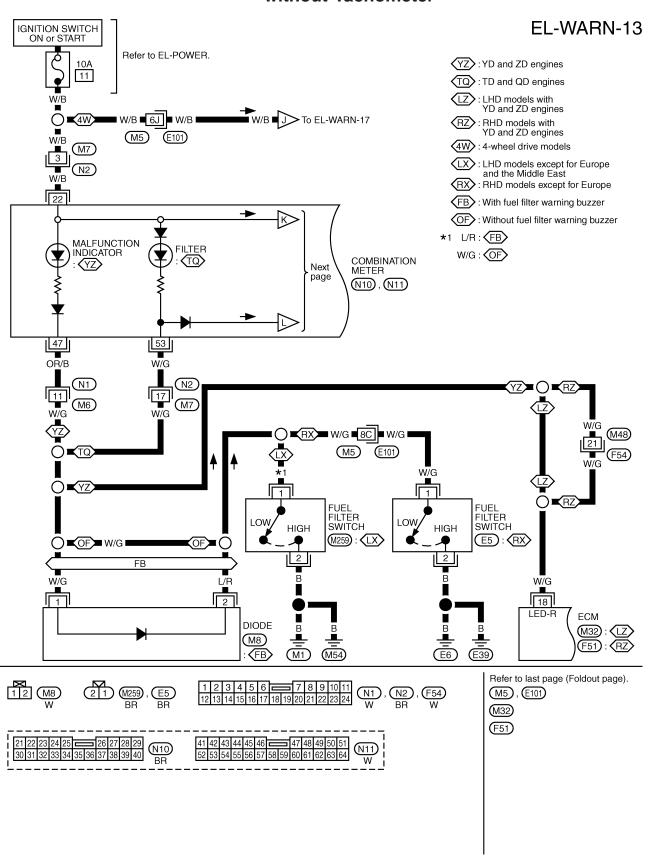
G[



[DX

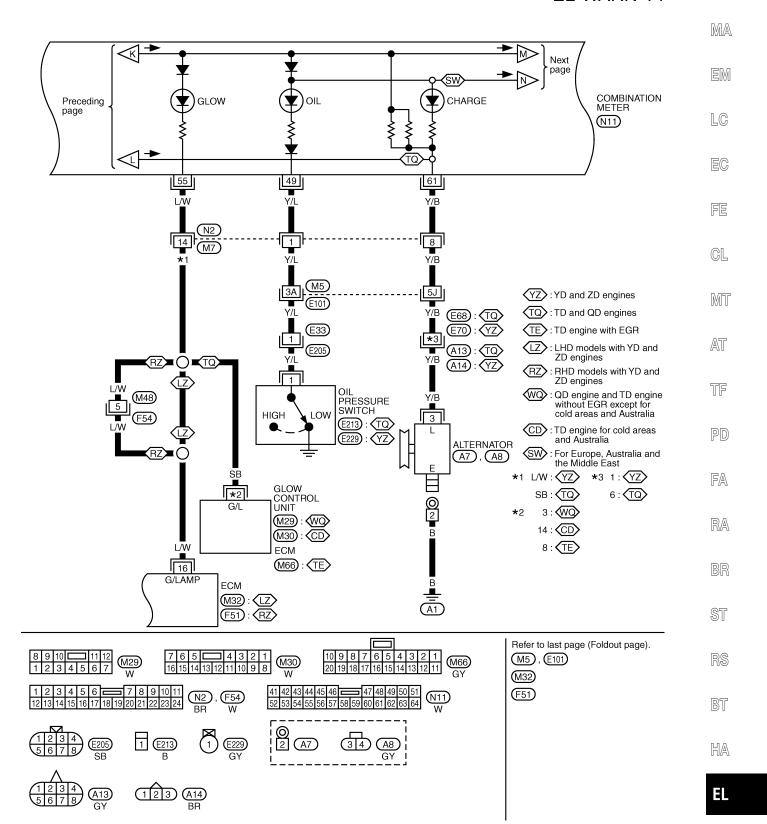






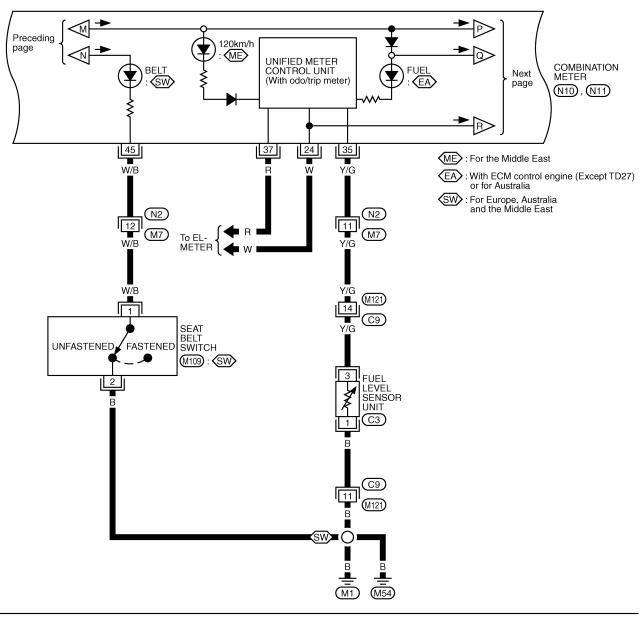
EL-WARN-14

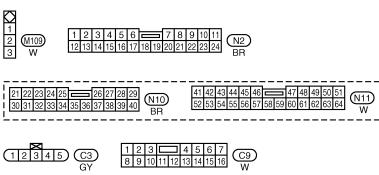
G[

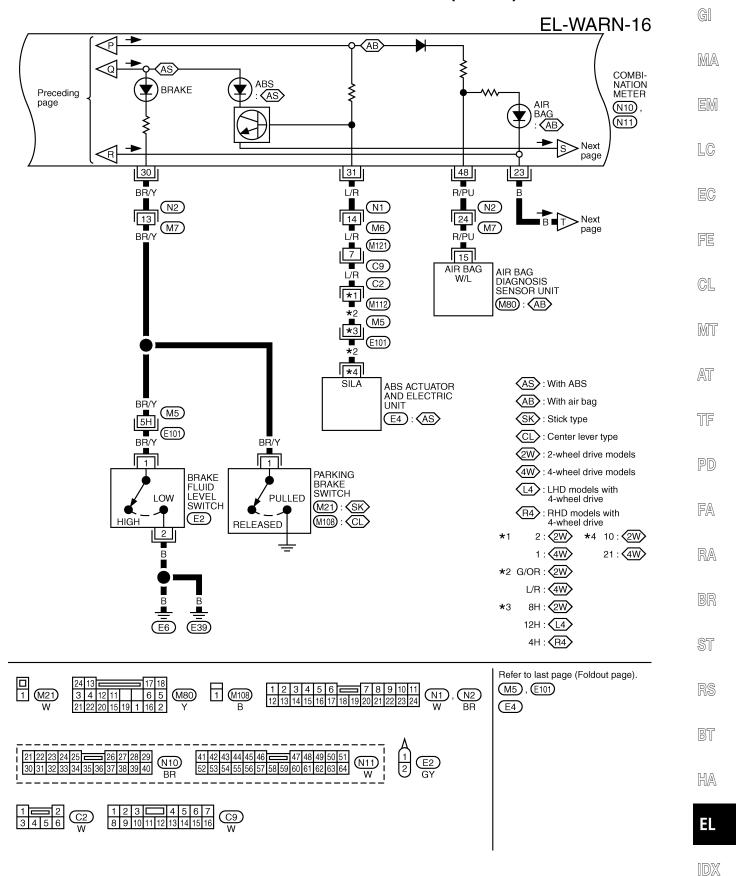


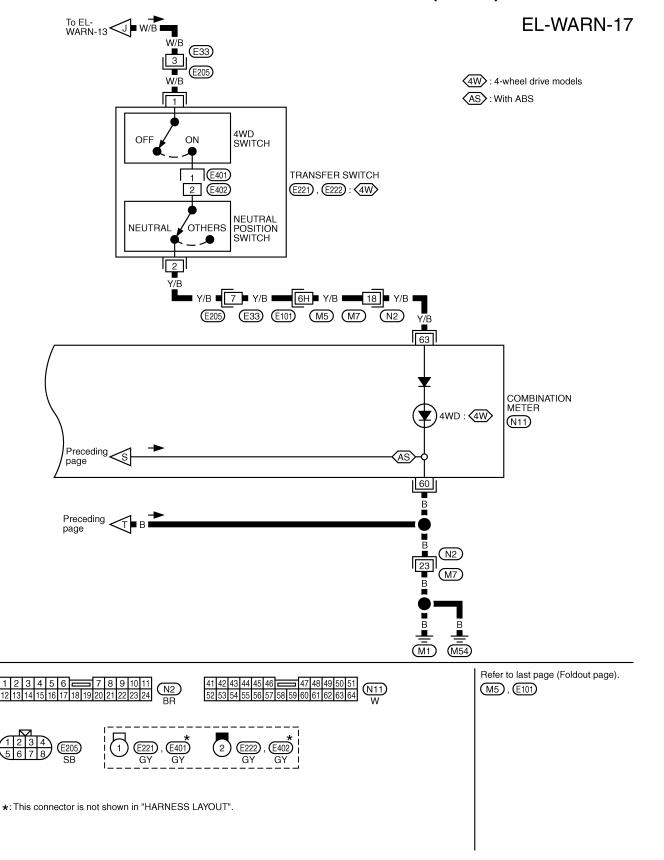
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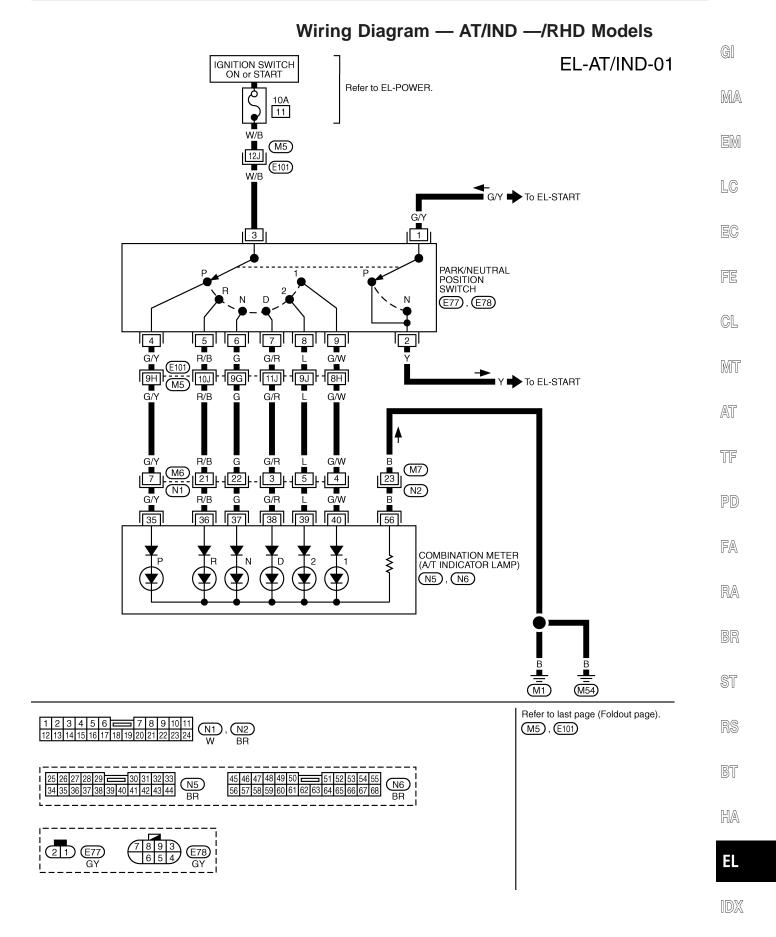
EL-WARN-15







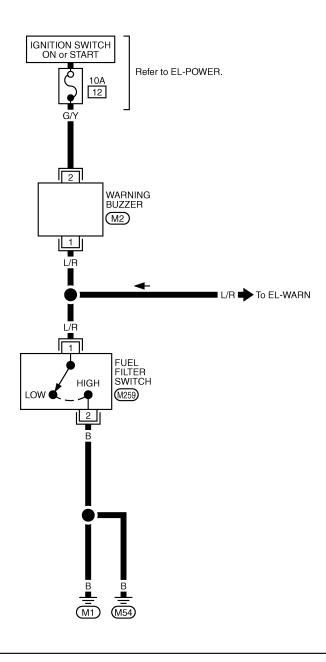




Wiring Diagram — CHIME —/Diesel Engine Except for Europe, Australia and The Middle East

FUEL FILTER WARNING BUZZER

EL-CHIME-01







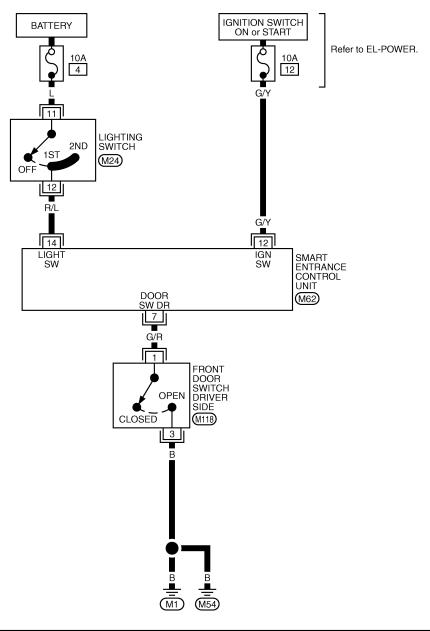
Wiring Diagram — CHIME —/LHD Models for

Europe G[LIGHT WARNING BUZZER MA IGNITION SWITCH ON or START EL-CHIME-02 BATTERY Refer to EL-POWER. EM 10A 12 LC EC (DL): With daytime light system FE ED: Without daytime light system (E101) *1 W/R: DL (M5) W/L: ŒD GL R/L 14 12 LIGHT SW LIGHTING SWITCH MT SMART ENTRANCE CONTROL UNIT 2ND 1ST (M24) (M62) DOOR SW DF OFF AT 7 TF FRONT DOOR SWITCH DRIVER SIDE OPEN PD CLOSED (M118) 3 FA RA BR W/R W/L 11 1 10 ST TAIL/L TAIL/L OUTPUT DAYTIME LIGHT UNIT RS E64): (DL) Refer to last page (Foldout page). 11 5 10 12 M24 BR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 M5, E101 BT HA ΕL

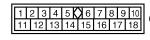
Wiring Diagram — CHIME —/RHD Models for Europe

LIGHT WARNING BUZZER

EL-CHIME-03







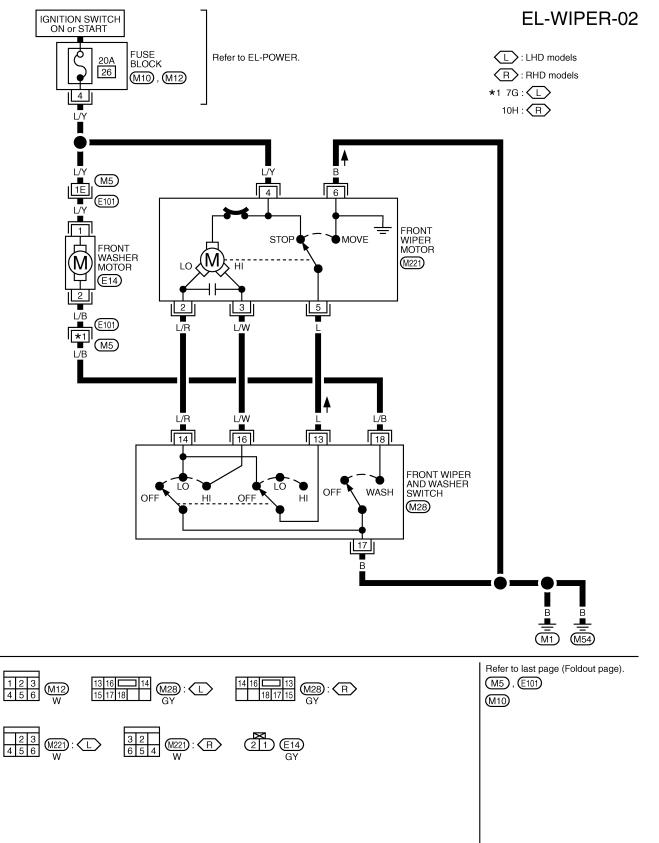




Wiring Diagram — WIPER —/With Intermittent for Floor-shift GI LHD MODELS AND RHD MODELS FOR TD, QD ENGINES MA **EL-WIPER-01** IGNITION SWITCH ON or START FUSE BLOCK L: LHD models Refer to EL-POWER. 20A 26 R : RHD models M10, M12 *1 7G: \(\) LC 10H: R EC (M5) FE (E101) 6 4 GL FRONT WIPER MOTOR FRONT WASHER MOTOR STOP MOVE M221(E14) MT (E101) 3 AT L/R L/W (M5) TF L/B L/R L/W 18 16 14 13 PD FRONT WIPER AND WASHER SWITCH FA INT. INT AUTO SW STOP WASH OFF HI OFF WIPER AMP. OUT PUT RA M28BR 17 ST RS (M1)(M54) Refer to last page (Foldout page). M5, E101 BT (M10) HA EL

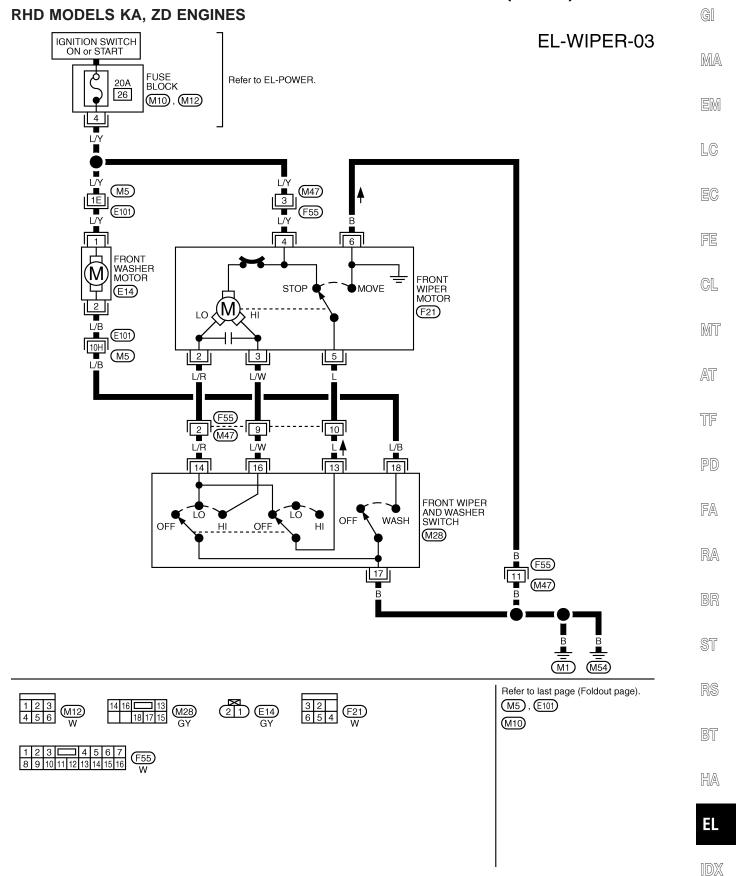
Wiring Diagram — WIPER —/Without Intermittent for Floor-shift

LHD MODELS AND RHD MODELS FOR Z, TD, QD ENGINES



FRONT WIPER AND WASHER

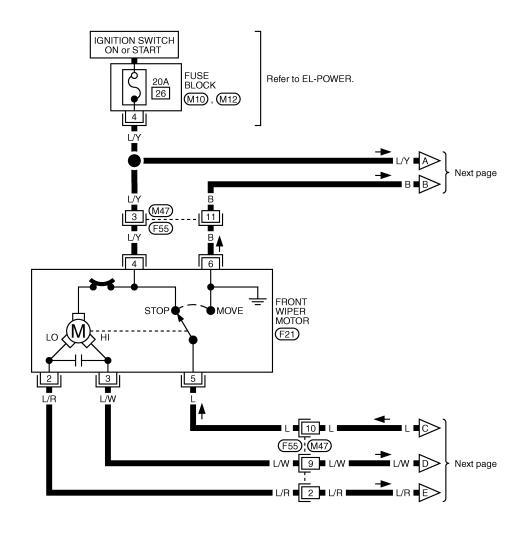
Wiring Diagram — WIPER —/Without Intermittent for Floor-shift (Cont'd)

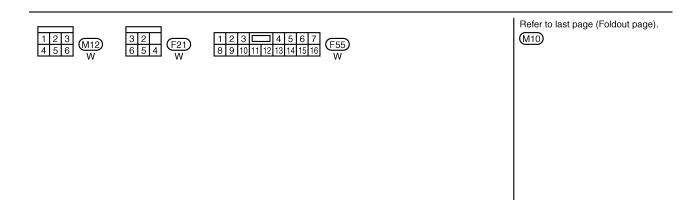


Wiring Diagram — WIPER —/Without Intermittent for Floor-shift (Cont'd)

RHD MODELS EXCEPT FOR TD, QD ENGINES

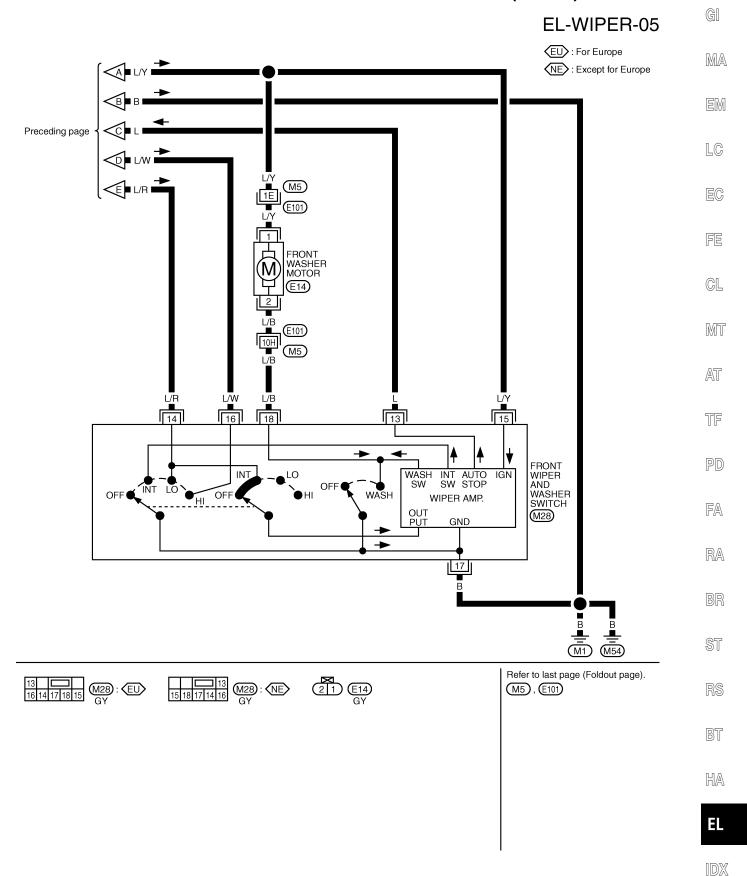
EL-WIPER-04





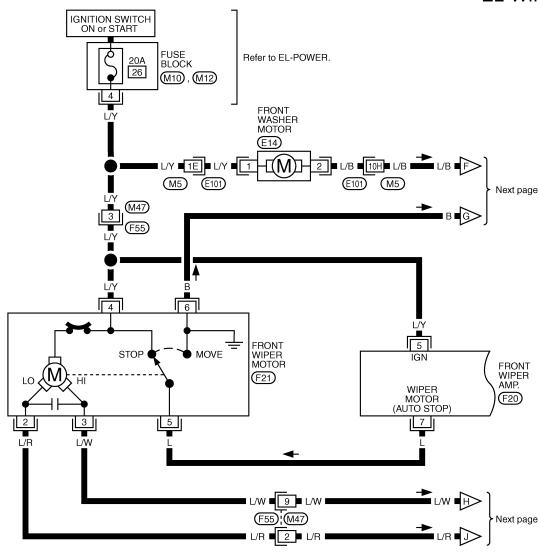
FRONT WIPER AND WASHER

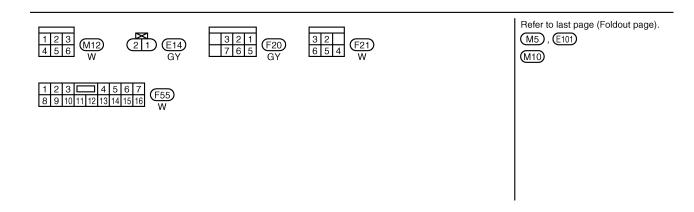
Wiring Diagram — WIPER —/Without Intermittent for Floor-shift (Cont'd)



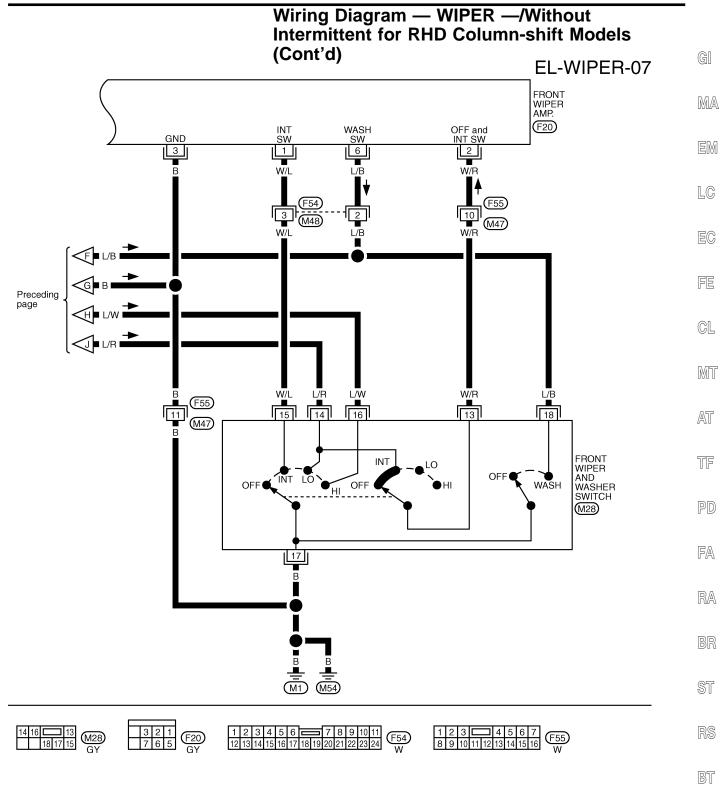
Wiring Diagram — WIPER —/Without Intermittent for RHD Column-shift Models

EL-WIPER-06





FRONT WIPER AND WASHER

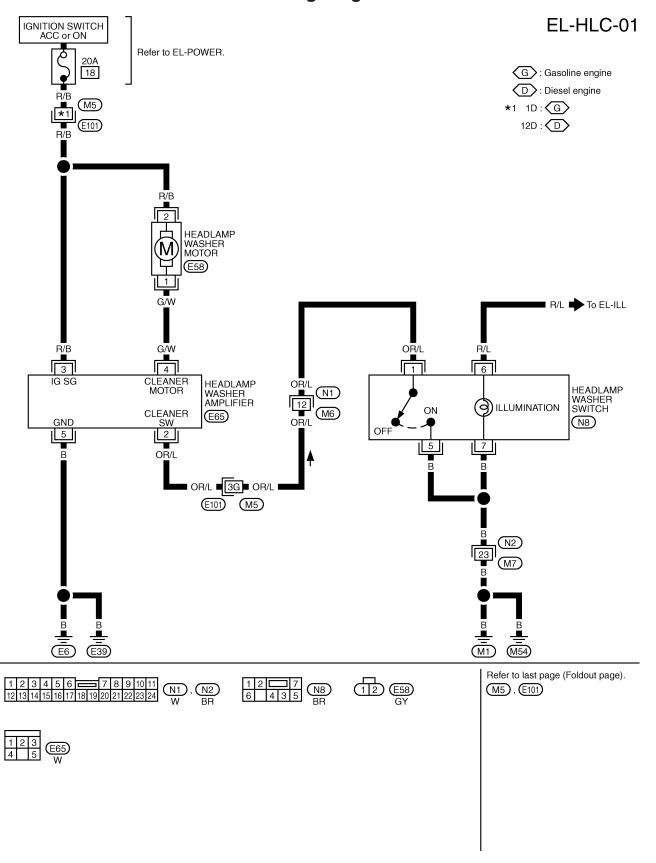


EL

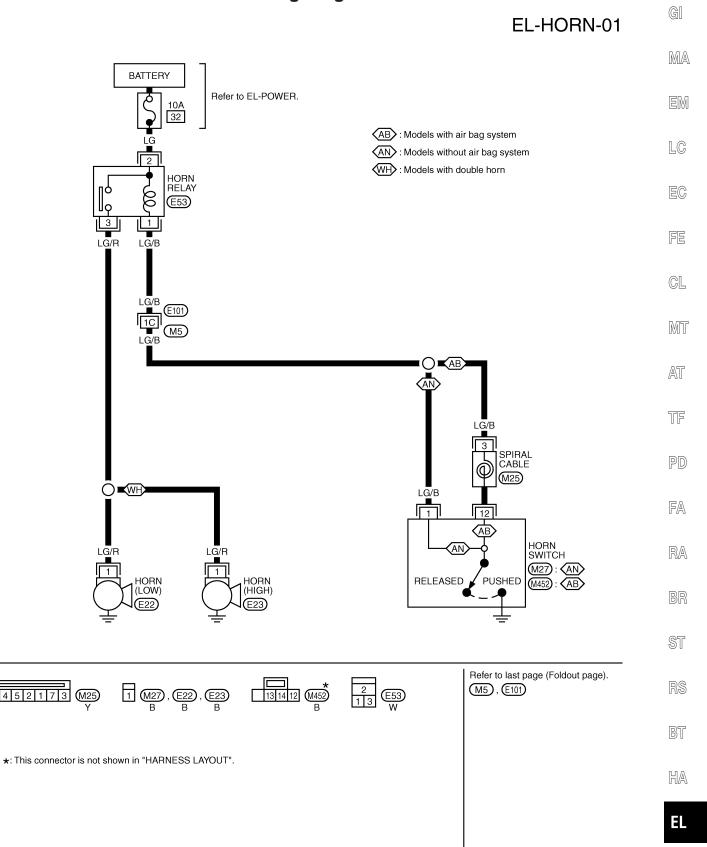
HA

IDX

Wiring Diagram — HLC —

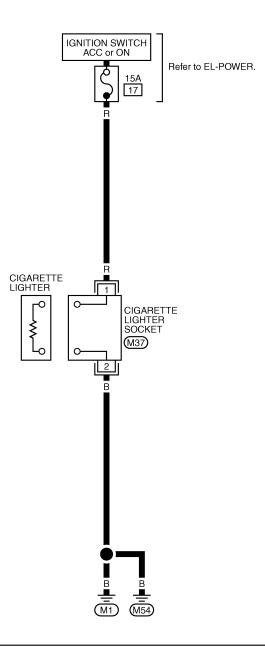


Wiring Diagram — HORN —



Wiring Diagram — CIGAR —

EL-CIGAR-01

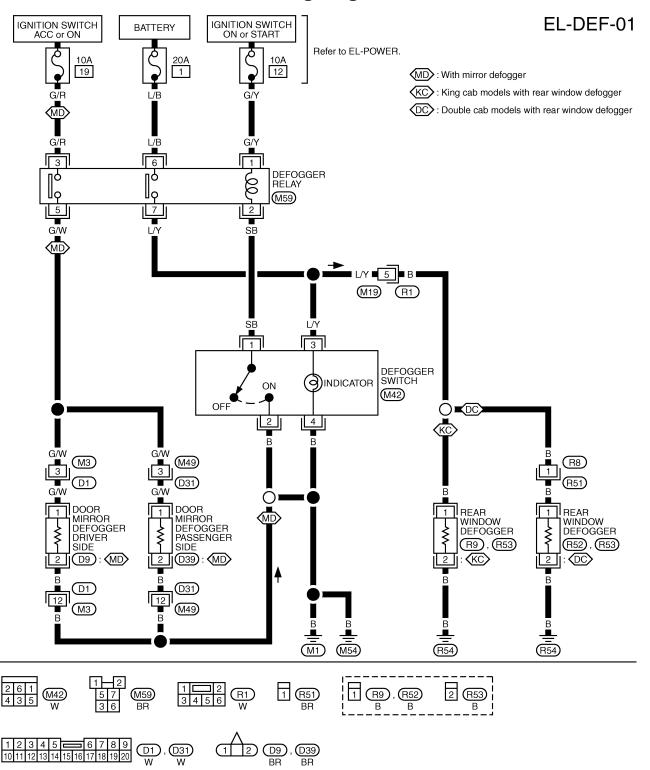




Wiring Diagram — CLOCK — G[EL-CLOCK-01 BATTERY MA Refer to EL-POWER. 6 EM TM: With tachometer OT : Without tachometer LC XA : Without tachometer except for Australia R/G 10 R/G *1 18: (TM) EC 21 : **(**OT**)** *2 24 : TM 23 : **OT** FE R/G GL COMBINATION METER CLOCK MT DIGITAL CLOCK N4 : \tag{TM} N10 , \text{N11} : \text{OT} (XA) AT 46 *****2 TF PD FA RA BR ST RS BT HA ΕL

GEL430A

Wiring Diagram — DEF —



Wiring Diagram — AUDIO —/LHD Models **Except for Europe** G[**WITH 1-SPEAKER** MA **EL-AUDIO-01** IGNITION SWITCH ACC or ON BATTERY Refer to EL-POWER. 10A 7 EM 39 L∕R LC EC (M5) R/L To EL-ILL FE 6 R/G G/W GL ROD ANTENNA MT 6 10 8 LIGHTING SW AUDIO UNIT AT **FRSP FRSP** (M512) 2 TF B/R B/W PD FA RA 6 M49 (D31) BR FRONT DOOR SPEAKER ST 2 00 (D33) RS Refer to last page (Foldout page). (M5), (E101) BT

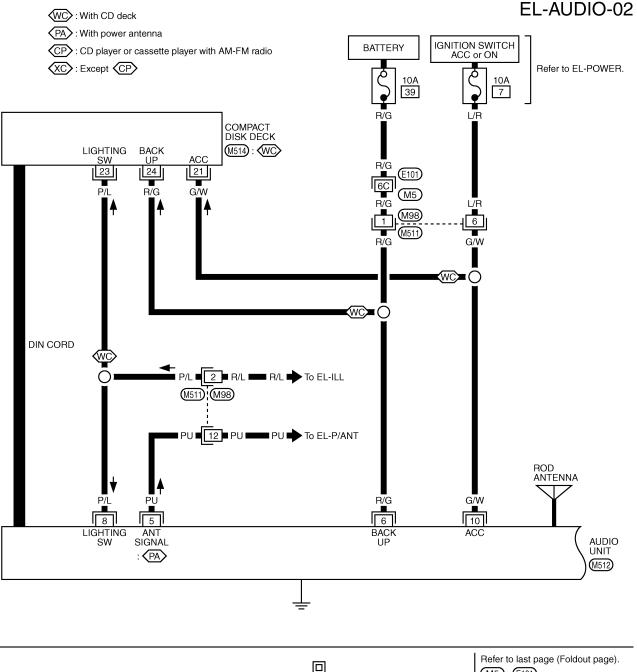
GEL432A

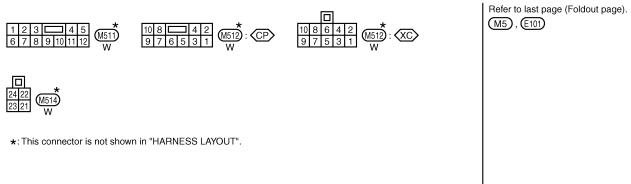
HA

ΕL

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

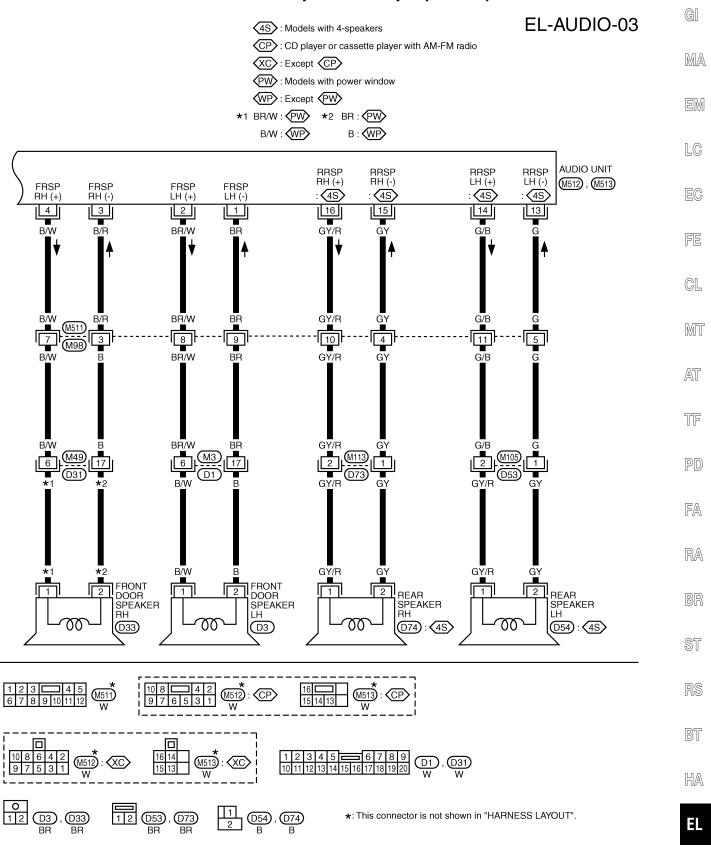
WITH 2 OR 4 SPEAKERS





AUDIO

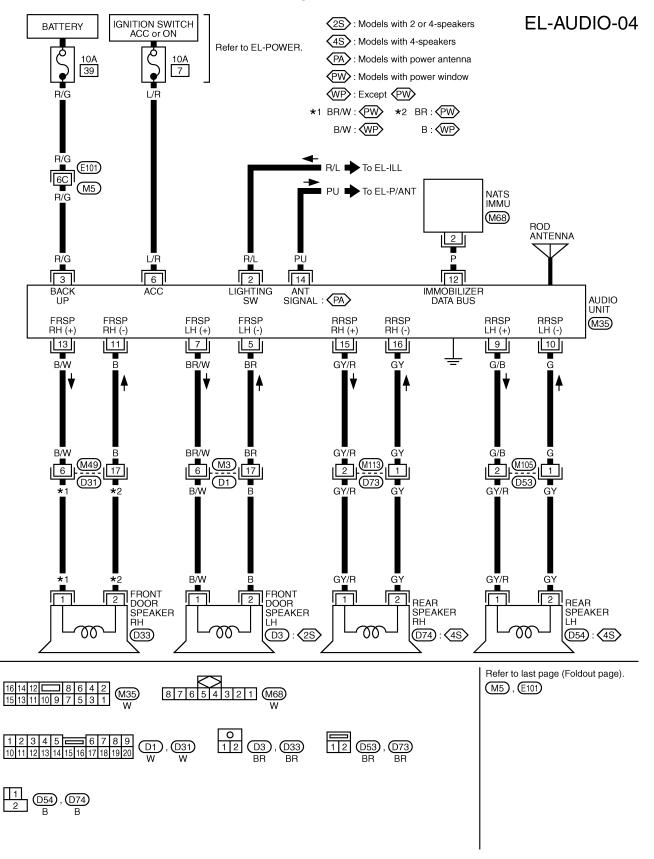
Wiring Diagram — AUDIO —/LHD Models Except for Europe (Cont'd)

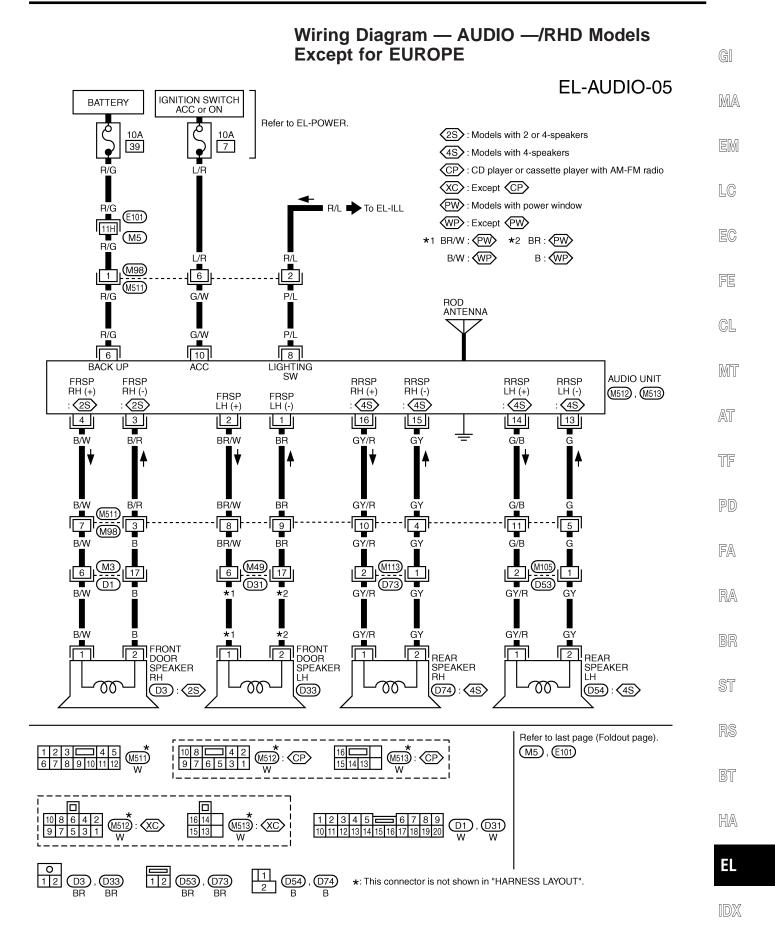


GEL434A

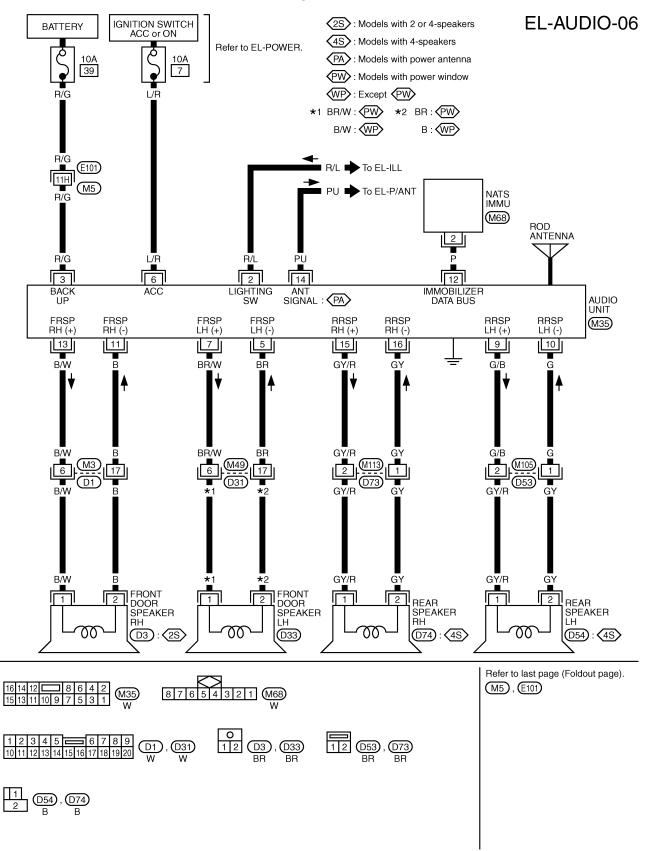
[DX

Wiring Diagram — AUDIO —/LHD Models for Europe



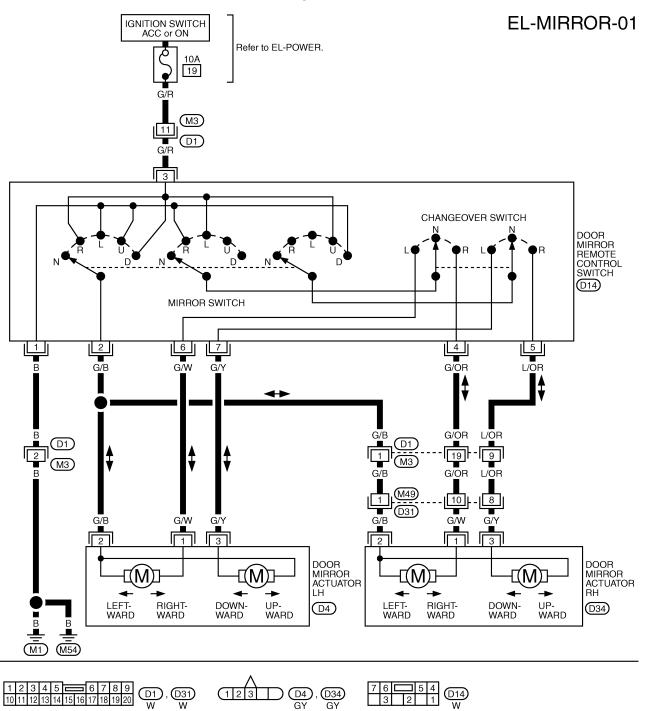


Wiring Diagram — AUDIO —/RHD Models for Europe



Power Antenna/Wiring Diagram — P/ANT — GI IGNITION SWITCH ACC or ON EL-P/ANT-01 **BATTERY** L: LHD models Refer to EL-POWER. MA 10A R : RHD models 6 EU : For Europe NE: Except for Europe CP : Cassette player with AM-FM radio XC: Except CP LC L/R **■**6 **■** G/W ■ ○ ■NE *1 6A: \(\) M98 M511 12J : (R) EC *2 6B:\L 11J: (R) G/W L/R 6 FE ACC ACC AUDIO UNIT **AUDIO** UNIT GL ANT SIGNA ANT SIGNA (M35) (M512) 14 5 PU MT ΡŪ AT PU **■** 12 **■** PU PU *2 R/G *1 M5 TF PD 3 POWER ANTENNA FA **E**46 GND 2 RA Б BR ST E39 Refer to last page (Foldout page). RS M5, E101 BT 10 8 6 4 2 9 7 5 3 1 HA ★: This connector is not shown in "HARNESS LAYOUT". EL

Wiring Diagram — MIRROR —/LHD Models Except for The Middle East



Wiring Diagram — MIRROR —/LHD Models for The Middle East **EL-MIRROR-02 IGNITION SWITCH** Refer to EL-POWER. 19 G/R G/R **D1** CHANGEOVER SWITCH DOOR MIRROR REMOTE CONTROL SWITCH (D14) MIRROR SWITCH G/B 4 6 G/W G/OR L/OR В G/Y **←** G/OR 19 G/OR 9 (M3) (M3) L/OR 10 8 G/W G/W DOOR MIRROR ACTUATOR DOOR MIRROR ACTUATOR RH \square $\square(M)$ \square \square LEFT-WARD LEFT-WARD DOWN-UP-RIGHT-UP-RIGHT-DOWN-(D11) (D41) WARD WARD WARD M1 M54 (D1), (D31) W W (123)(D11), (D41)

GEL466A

GI

MA

EM

LC

EC

FE

GL

MT

AT

TF

PD

FA

RA

BR

ST

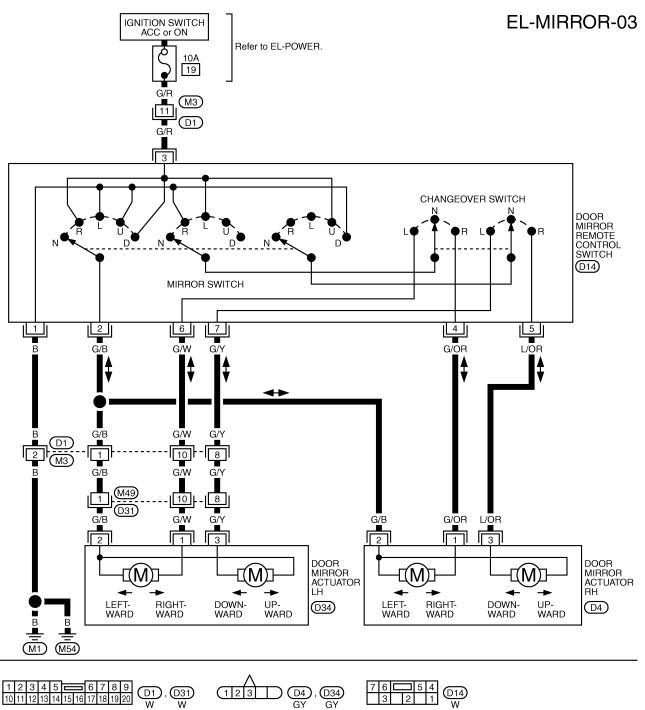
RS

BT

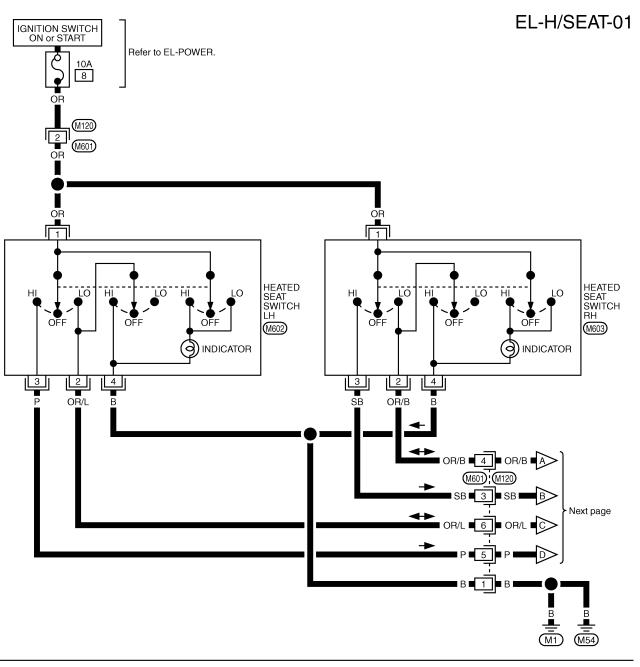
HA

ΕL

Wiring Diagram — MIRROR —/RHD Models



Wiring Diagram — H/SEAT —



1 2 M120 3 1 M602 , M603 W

GEL441A

G[

MA

EM

LC

EC

FE

GL

MT

AT

TF

PD

FA

RA

BR

ST

RS

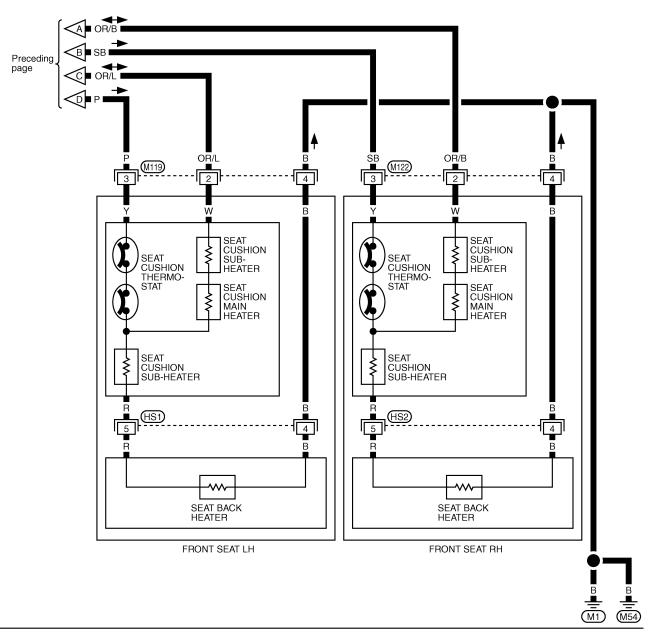
BT

HA

ΕL

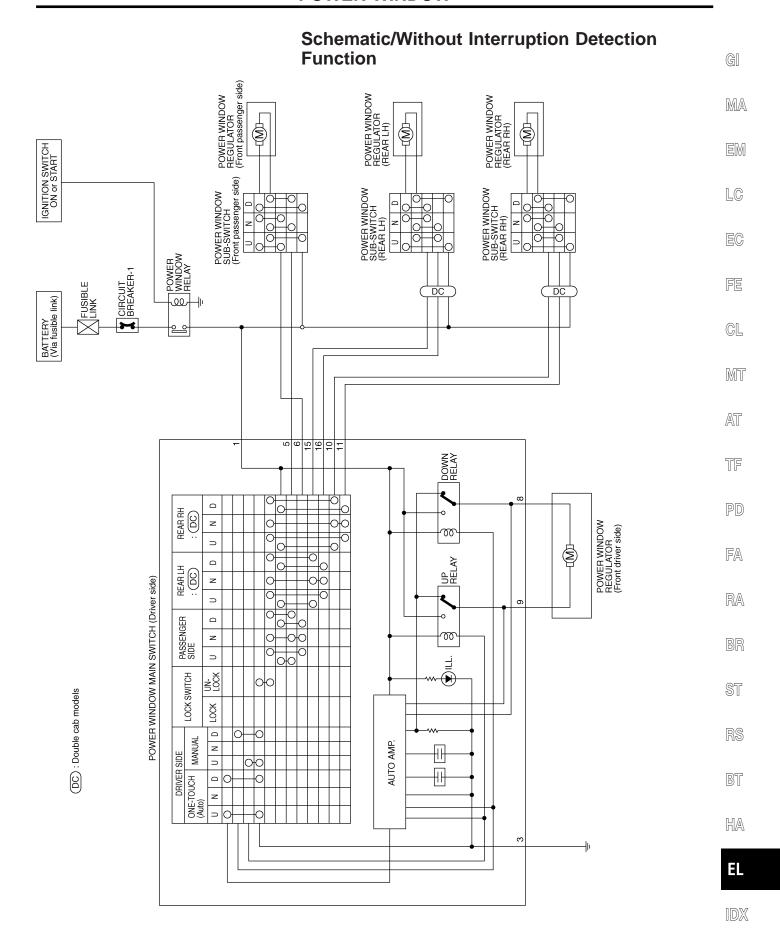
Wiring Diagram — H/SEAT — (Cont'd)

EL-H/SEAT-02

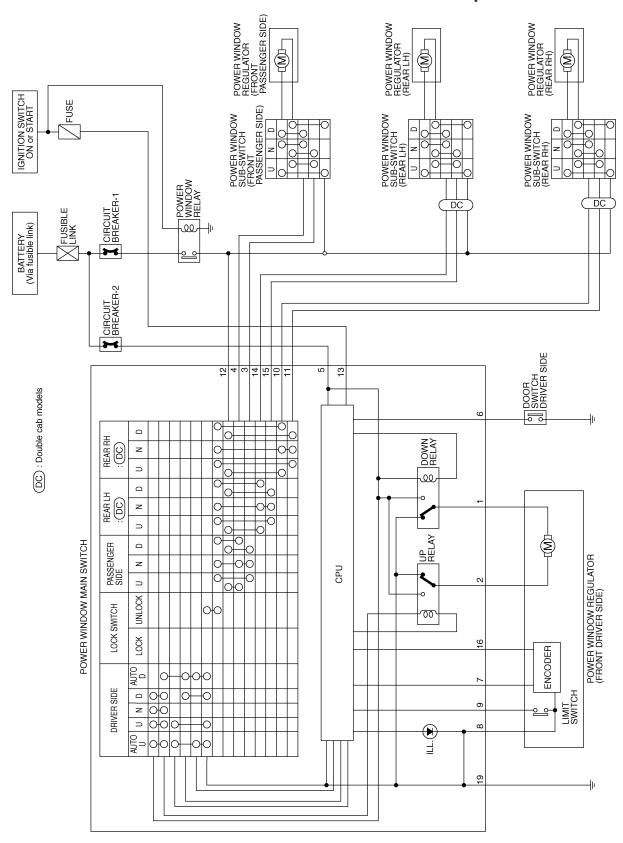


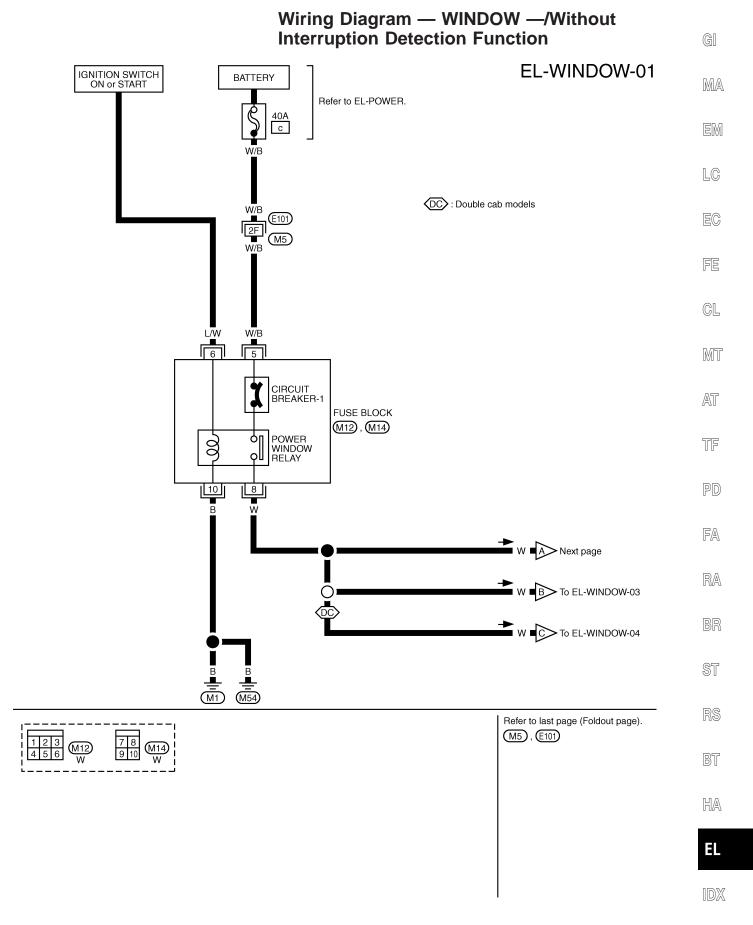


★: This connector is not shown in "HARNESS LAYOUT"

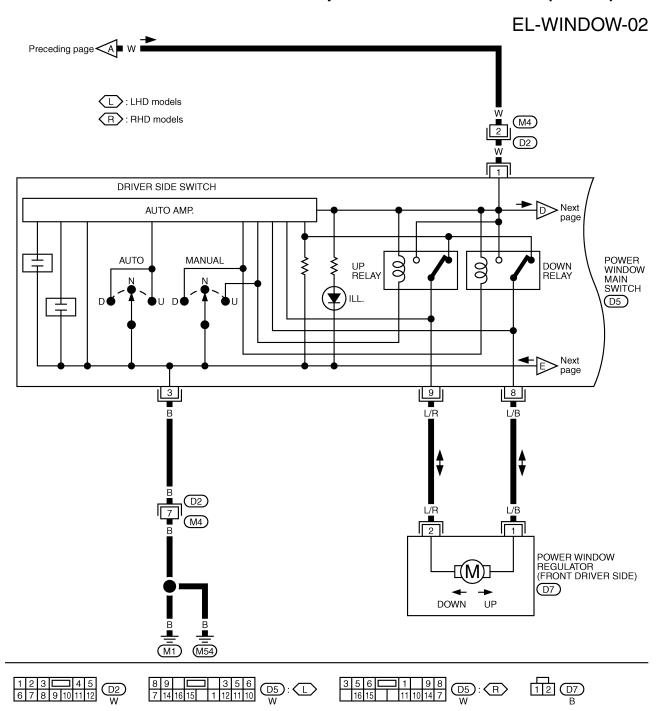


Schematic/With Interruption Detection Function

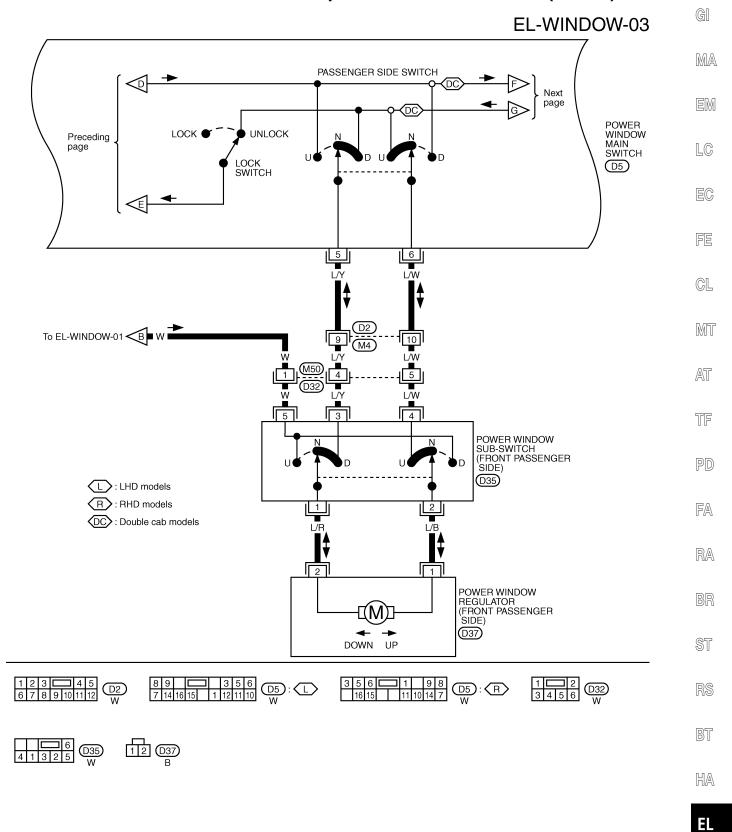




Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)



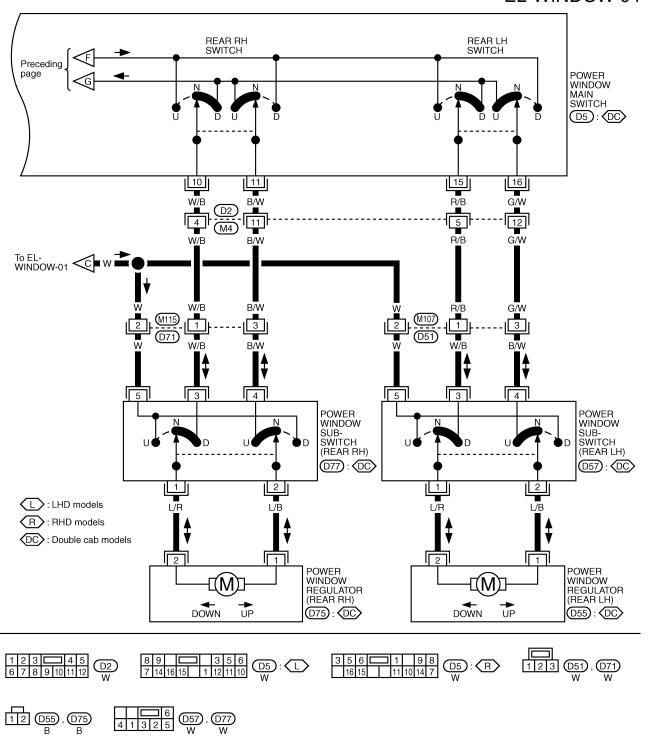
Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)

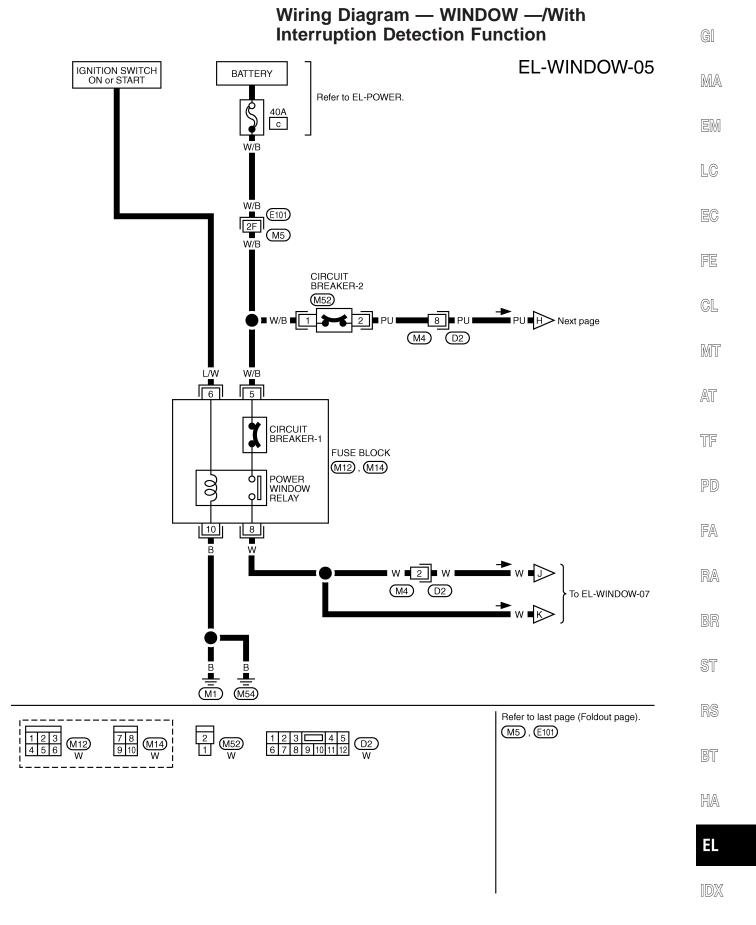


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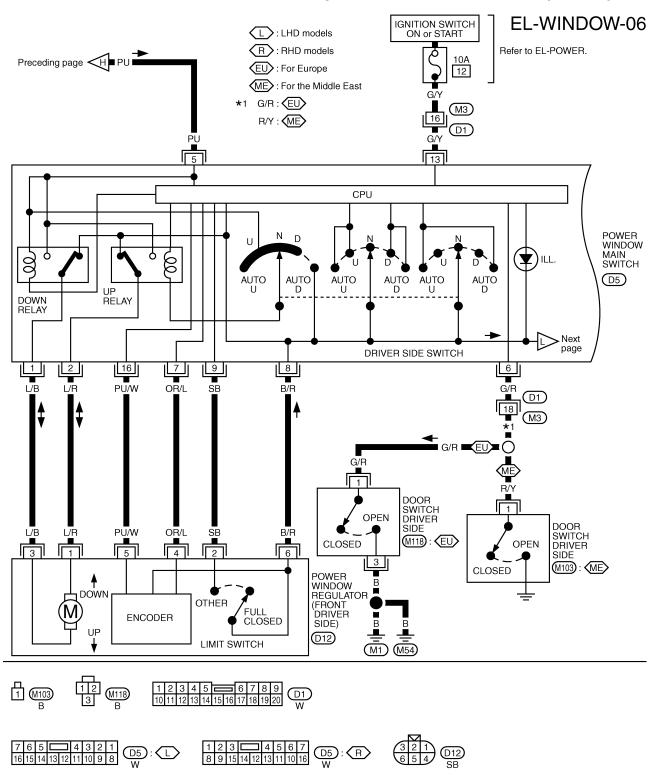
Wiring Diagram — WINDOW —/Without Interruption Detection Function (Cont'd)

EL-WINDOW-04



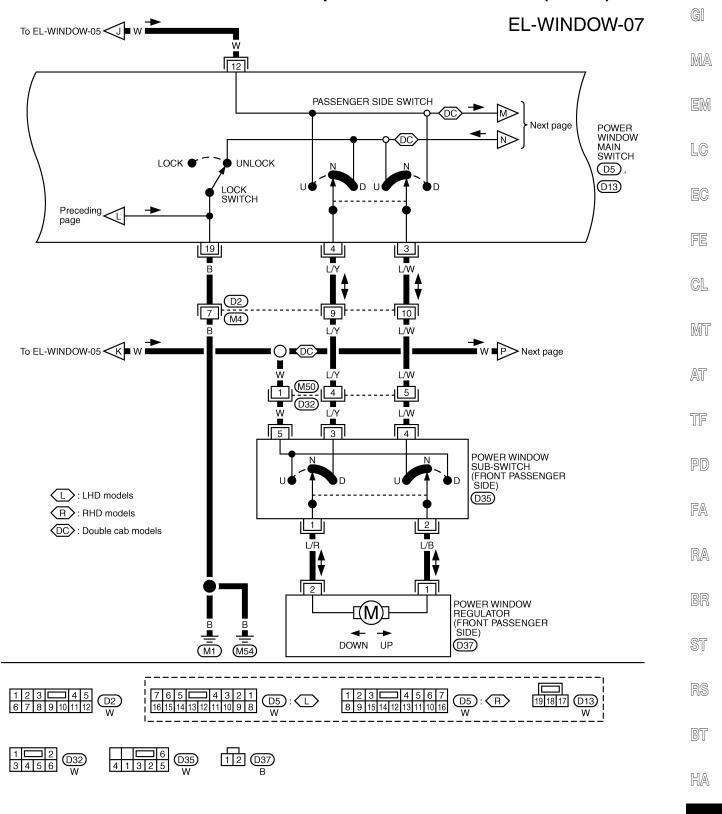


Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)



POWER WINDOW

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

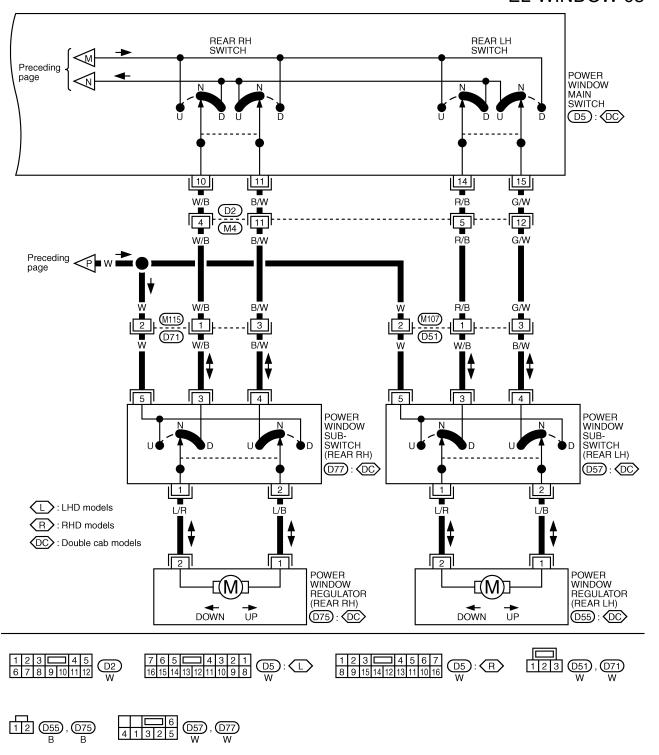


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Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)

EL-WINDOW-08



POWER WINDOW

Trouble Diagnoses/For Europe 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)	1. 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 ① of power window main switch and terminal ⑤ of sub-switch. 2. Check grounds (Mi) and (M54).	
	Power window relay Open/short in power window main switch circuit	3. Check power window relay. 4. Check harness between power window relay and power window main switch for open/short circuit.	E(
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.	FE
One or some of power window except driver side power window cannot be operated.	Power window sub-switch Passenger side power window regulator	Check power window sub-switch. Check power window regulator of malfunctioning power window.	CI
	Power window main switch Power window circuit	Check power window main switch. 4-1. Check harnesses between power window main switch and power window sub-switch for open/short.	M
		circuit. 4-2. Check harnesses between power window subswitch and power window regulator for open/short circuit.	AT
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.	P[
Driver side power window auto function cannot be operated using power window main switch.	Power window main switch	Check power window main switch.	F/



















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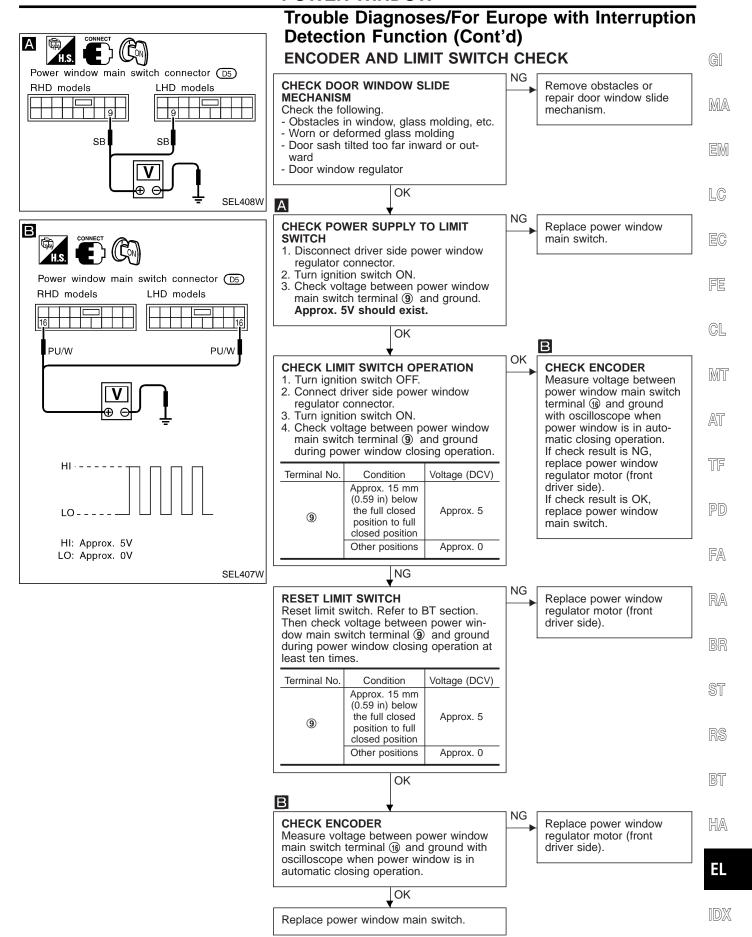
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POWER WINDOW

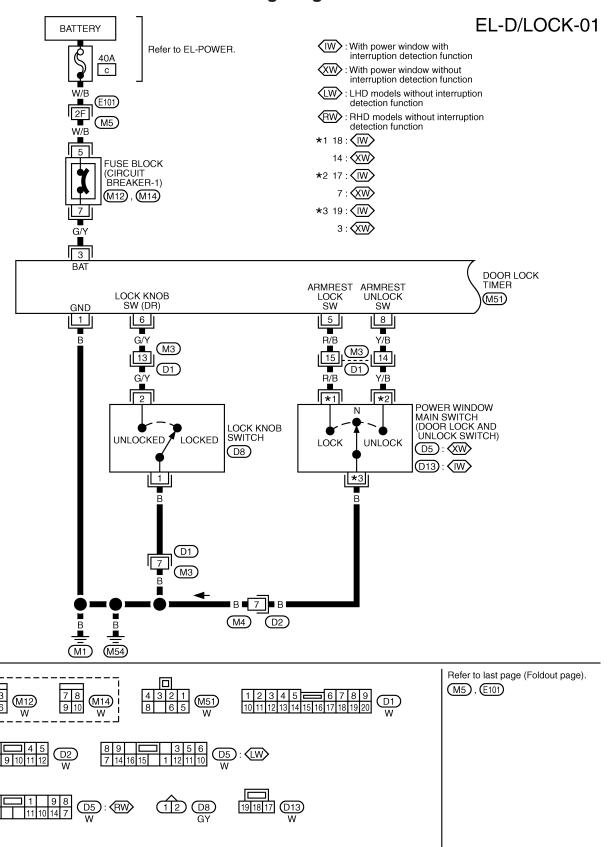
Trouble Diagnoses/For Europe with Interruption Detection Function

Symptom	Possible cause	Repair order
None of the power windows can be operated using any switch.	1. 10A fuse, 40A fusible link	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 (19).
	3. Power window main switch	3. Check power window main switch.
Driver side power window cannot be operated but other windows can be operated.	 Driver side power window regulator circuit Driver side power window regulator (M52) circuit breaker-2 (M52) circuit breaker-2 circuit Power window main switch circuit 	and driver side power window regulator for open or short circuit. 2. Check driver side power window regulator. 3. Check M52 circuit breaker-2. 4. Check harness between (M52) circuit breaker-2 and 40A fusible link (letter ©, located in fuse and fusible link box). 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 (\$\mathbf{s}\) and (\$\mathbf{M52}\) 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. -2. 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-145)
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.

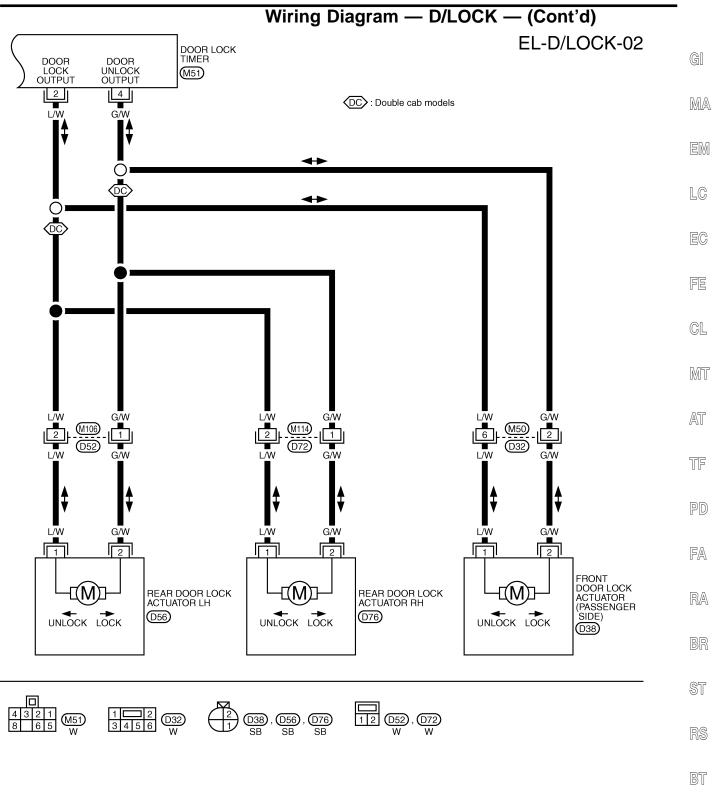
POWER WINDOW



Wiring Diagram — D/LOCK —



POWER DOOR LOCK/EXCEPT FOR EUROPE

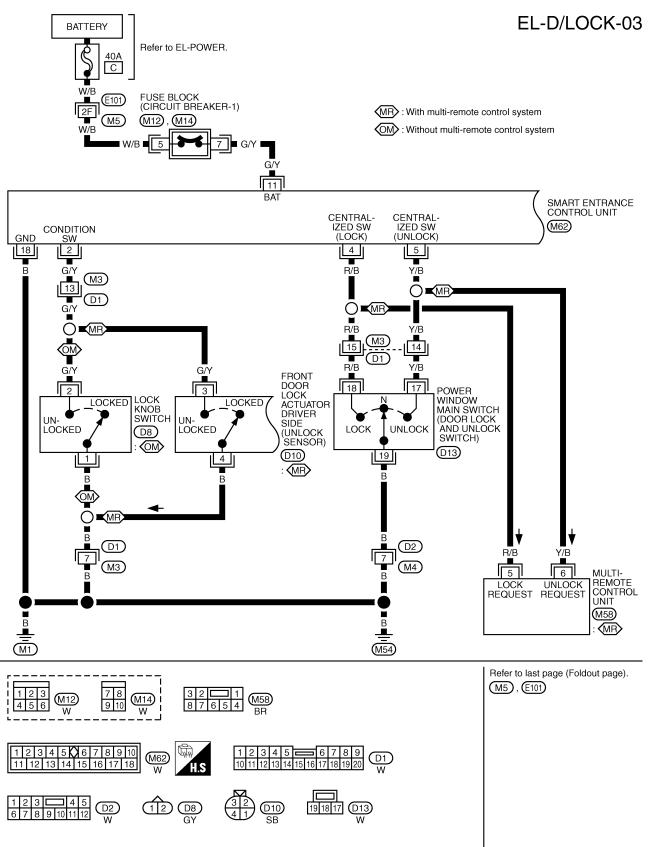


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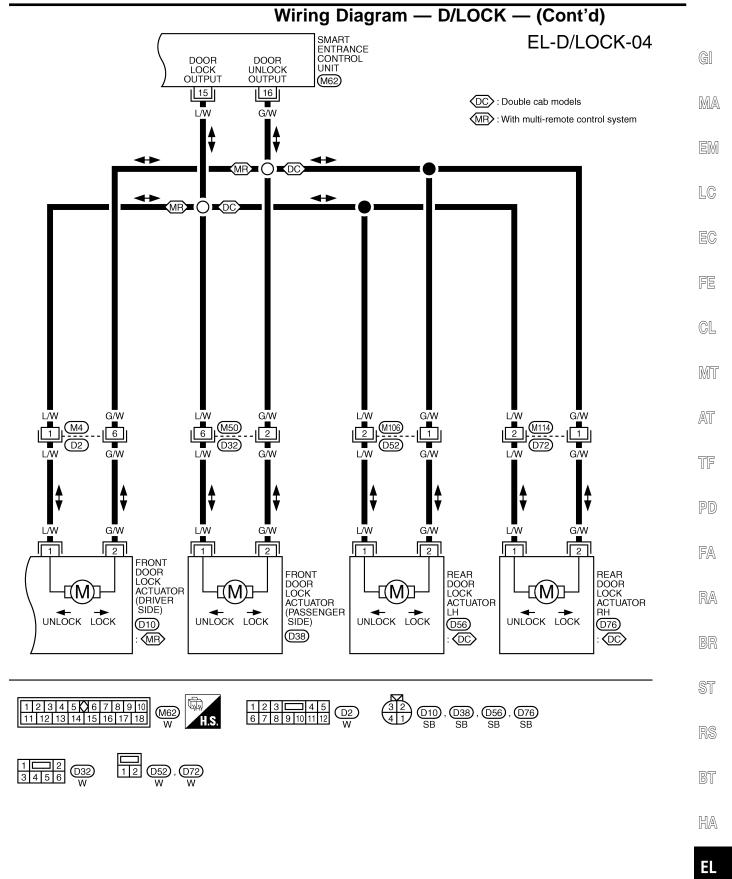
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Wiring Diagram — D/LOCK —



POWER DOOR LOCK/FOR EUROPE



GEL444A

MULTI-REMOTE CONTROL SYSTEM/FOR EUROPE

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

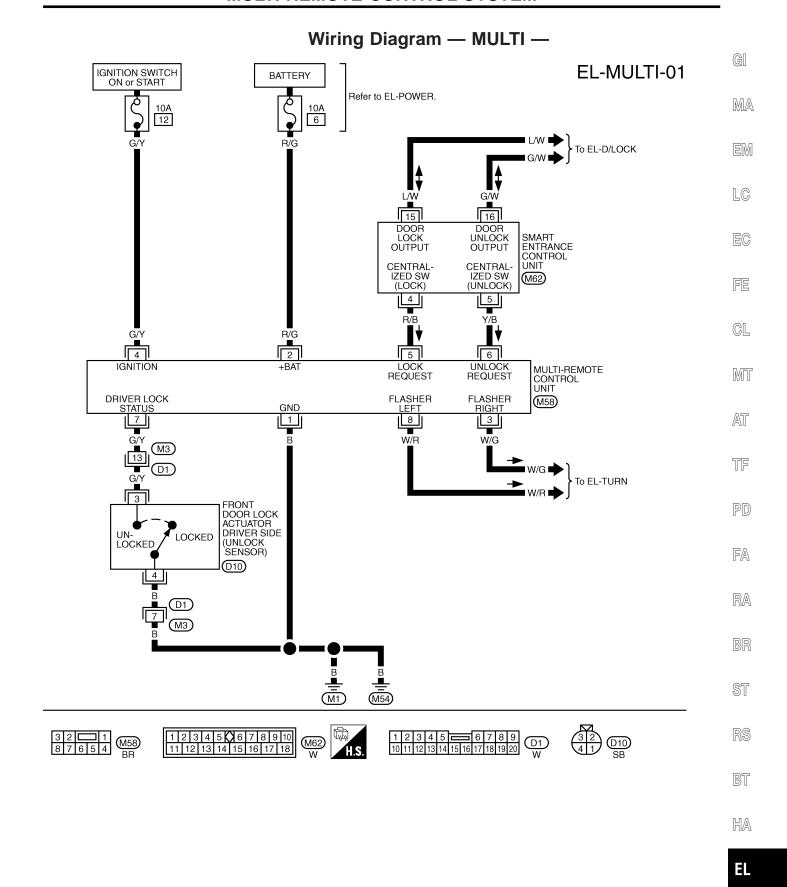
MULTI-REMOTE CONTROLLER ID CODE ENTRY

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-154.



GEL445A

MULTI-REMOTE CONTROL SYSTEM

Trouble Diagnoses

SYMPTOM CHART

Symptom	Possible cause	Diagnoses/service order
No doors can be locked or unlocked by remote control opera-	Power door lock system Remote controller battery	Check power door lock operation. Check remote controller battery. Refer to EL-155.
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-154.
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-155. Make sure battery voltage is present at terminal ④ of multi-remote control unit while ignition switch is in IGN
	3. Driver's door unlock sensor	position. 3. Check driver's door unlock sensor signal at terminal ⑦ of multi-remote control unit.
	4. Remote controller	4. Replace remote controller. Refer to EL-154.

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

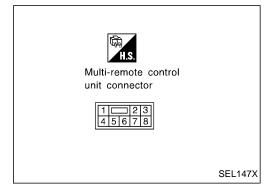
NOTE:

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

MULTI-REMOTE CONTROL SYSTEM

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

Terminal No.	Connections	Condition		Voltage (V) (approximate values)
1	Ground	_		_
2	Power source (BAT)	_	_	
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
4	Ignition power supply	Ignition switch	OFF	0
4			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	Driver side door unlock sensor	Driver side door	Locked	5
7			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



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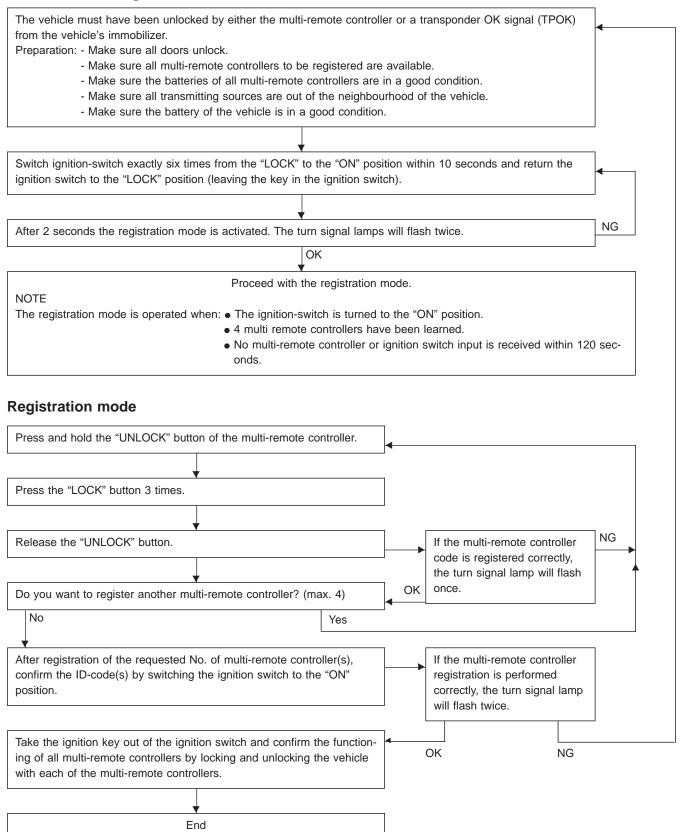
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ID Code Entry Procedure

Activation of the registration mode:



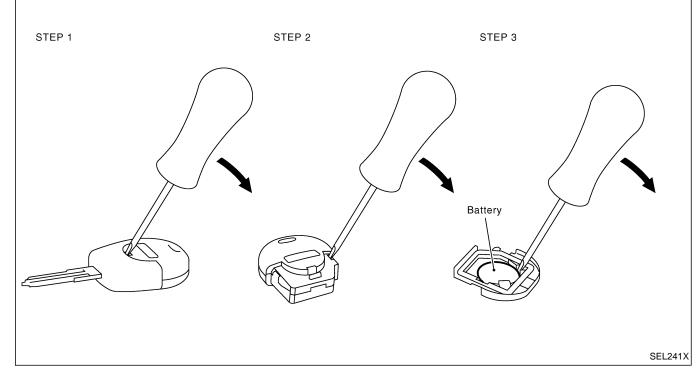
MULTI-REMOTE CONTROL SYSTEM

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.



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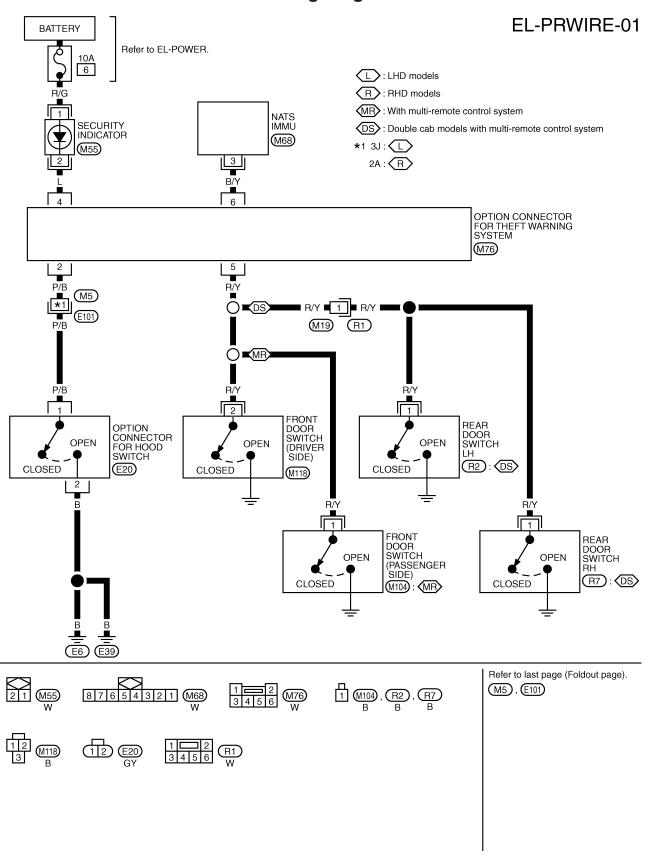
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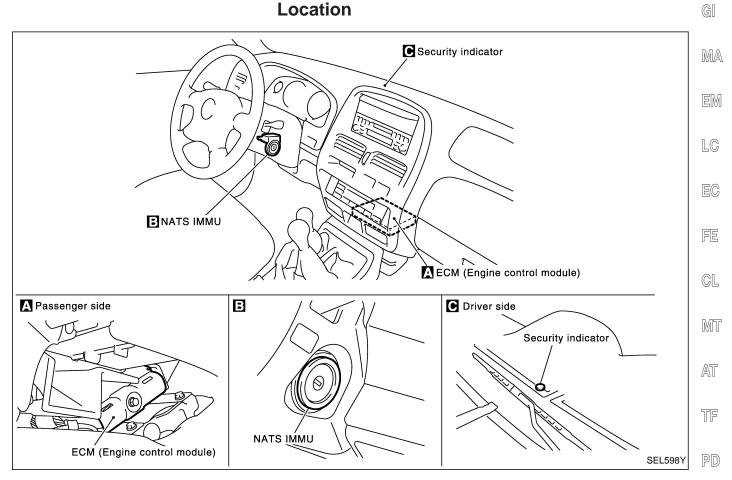
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Wiring Diagram — PRWIRE —



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.

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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.

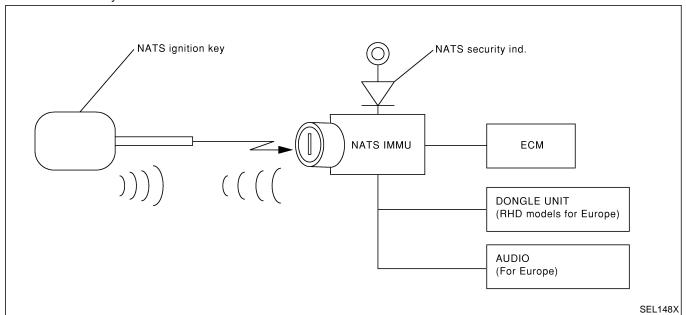
Condition	With Dongle	Without Dongle	
IGN ON and	Security Indicator	Security Indicator	
NATS malfunction (except dongle unit) is detected	Staying ON after ignition switch is turned ON	Staying ON	
Only malfunction of dongle unit is detected.	Staying ON for about 15 minutes after ignition switch is turned 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.

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



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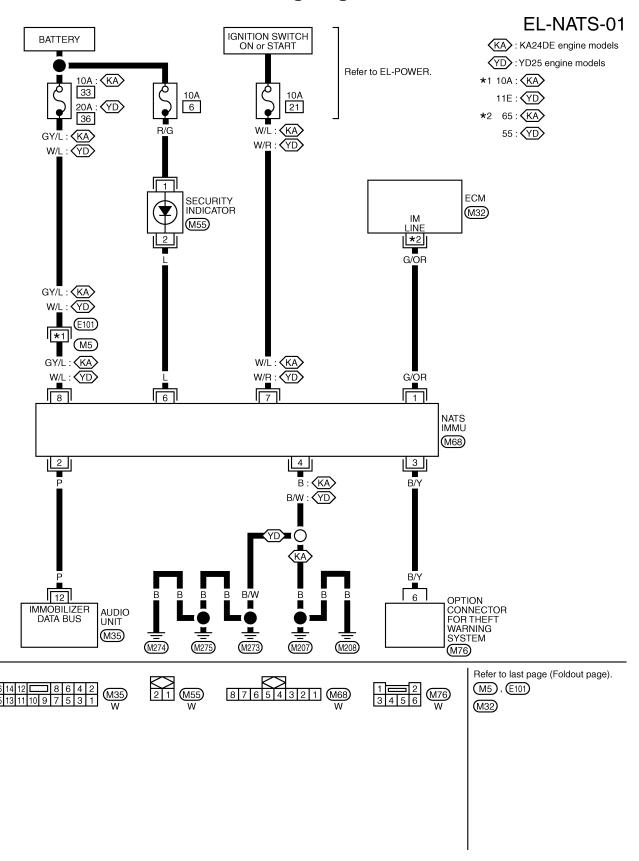
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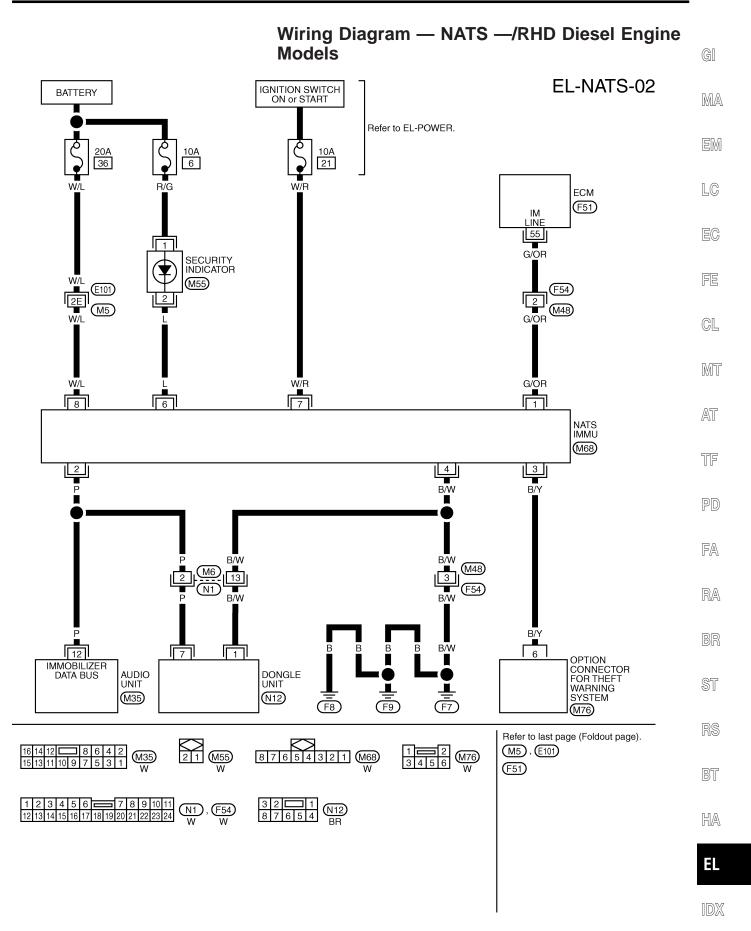
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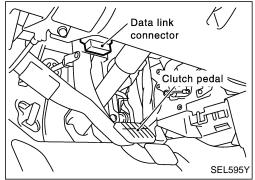
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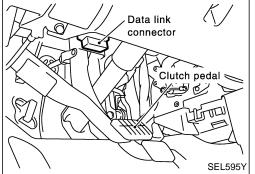
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Wiring Diagram — NATS —/LHD Models

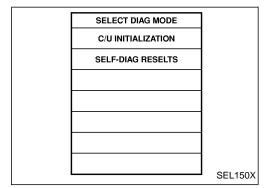








NISSAN CONSULT-II AEN00B START SEL617Y



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

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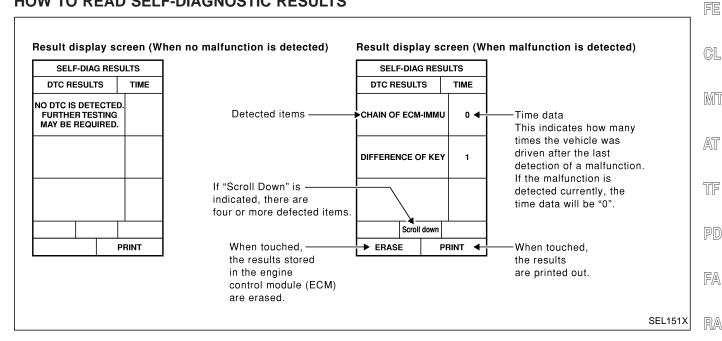
NOTE:

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 for Europe), security indicator will flash six times to demonstrate recognition of dongle unit ID.

HOW TO READ SELF-DIAGNOSTIC RESULTS

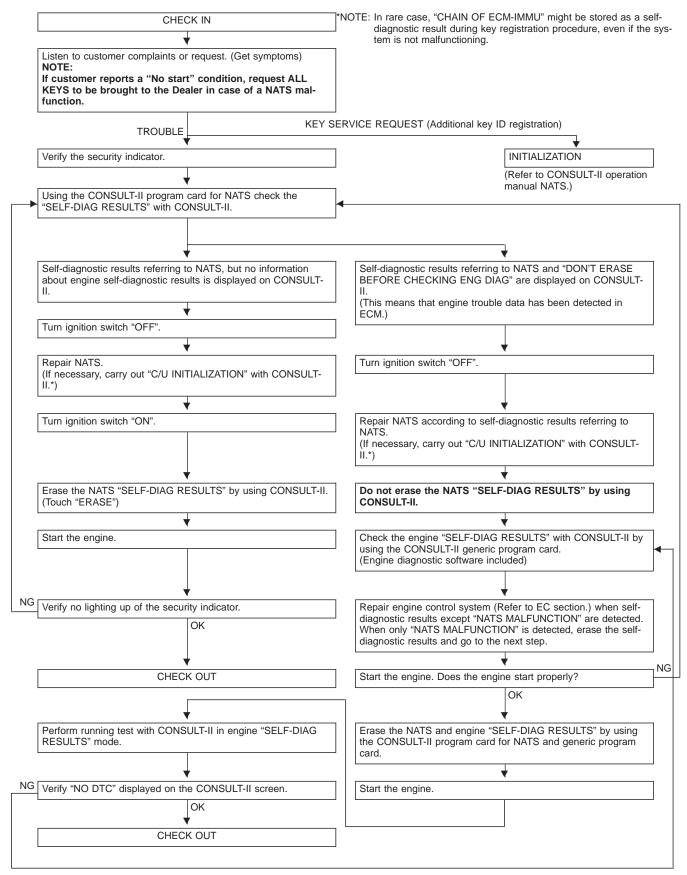


SELF-DIAGNOSTIC RESULTS ITEM CHART

Detected items (Screen terms)	Description	Reference page
ECM INT CIRC-IMMU	The malfunction of ECM internal circuit of IMMU communication line is detected.	EL-167
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-168
DIFFERENCE OF KEY	IMMU can receive the key ID signal but the result of ID verification between key ID and IMMU is NG.	EL-170
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-171
ID DISCORD, IMM-ECM	The result of ID verification between IMMU and ECM is NG. System initialization is required.	EL-172
DON'T ERASE BEFORE CHECK- ING ENG DIAG	Engine trouble data and NATS trouble data have been detected in ECM.	EL-164
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-173

Trouble Diagnoses

WORK FLOW



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
	ECM INT CIRC-IMMU	PROCEDURE 1 (EL-167)	ECM	В
	CHAIN OF ECM-IMMU	PROCEDURE 2 (EL-168)	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
 Security indicator lighting up* Engine does not start 			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 KEY	PROCEDURE 3 (EL-170)	Unregistered key	D
			IMMU	А
	CHAIN OF IMMU-KEY	PROCEDURE 4 (EL-171)	Malfunction of key ID chip	E
			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	ID DISCORD, IMM-ECM	PROCEDURE 5 (EL-172)	System initialization has not yet been completed.	F
up*			ECM	В
Engine hard to start	LOCK MODE	PROCEDURE 6 (EL-173)	LOCK MODE	D

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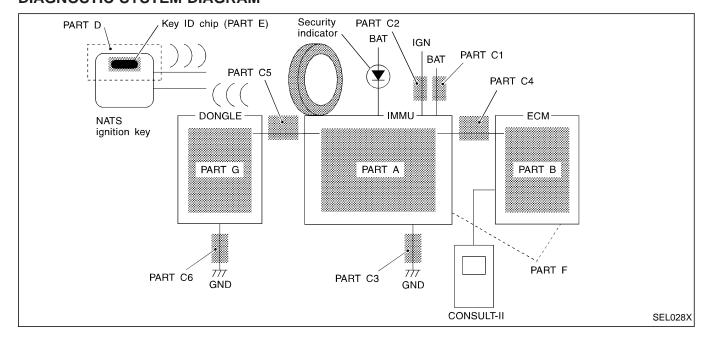
^{*:} When NATS detects trouble, the security indicator lights up while ignition key is in the "ON" position.
*: When the vehicle is equipped with dongle unit, the security indicator blinks 6 times just after ignition switch is turned to ON. Then the security indicator will light up while ignition key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

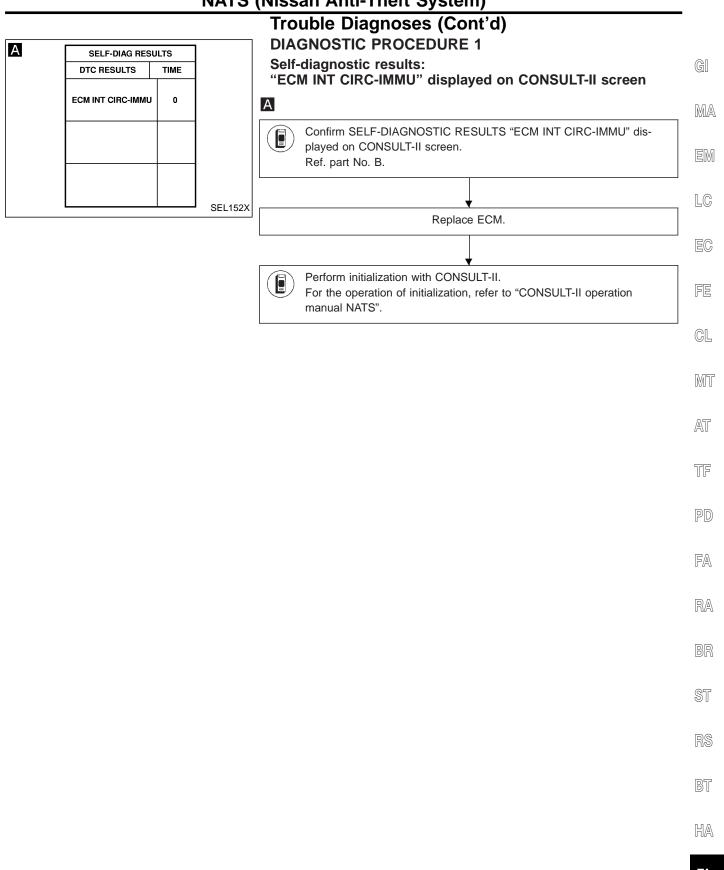
Trouble Diagnoses (Cont'd)

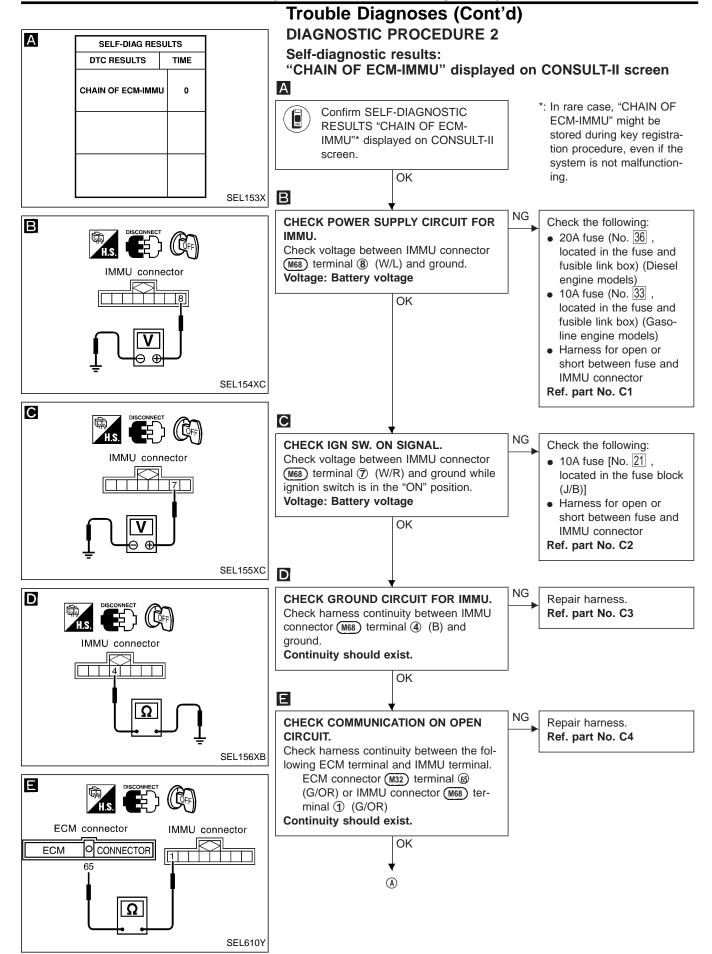
SYMPTOM MATRIX CHART 2 (Non self-diagnosis related item)

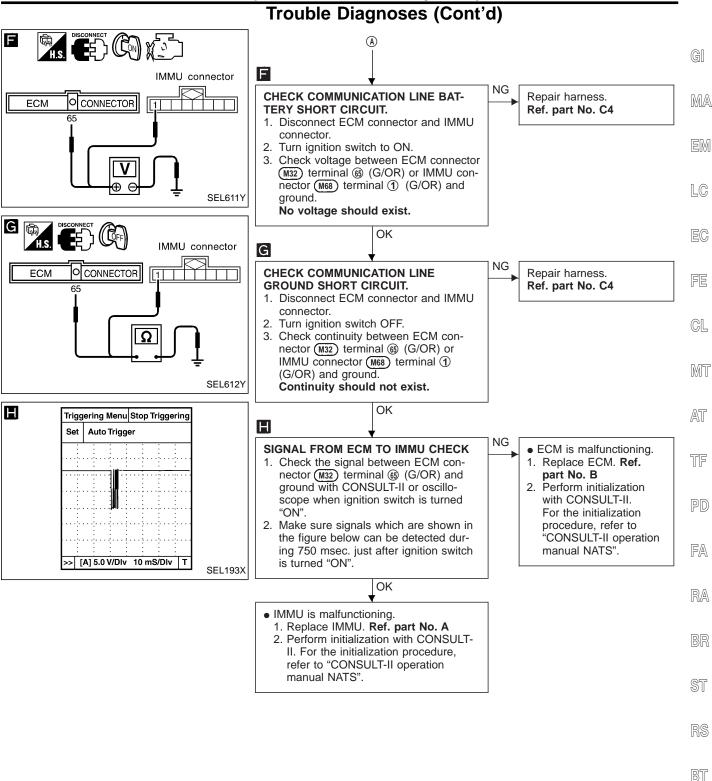
SYMPTOM	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON DIAGNOSTIC SYSTEM DIAGRAM
Security ind. does not light up.	PROCEDURE 7 (EL-174)	Security ind.	_
		Open circuit between Fuse and NATS IMMU	_
		Continuation of initialization mode	_
		NATS IMMU	A
Security ind. does not blink just after initialization even if the vehicle is equipped with	PROCEDURE 8 (EL-175)	NATS might be initialized without connecting dongle unit properly.	_
dongle unit.		Open circuit in ground line of dongle unit circuit	C6
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.		Open or short circuit in communication line between IMMU and dongle unit	C5
		Dongle unit	G

DIAGNOSTIC SYSTEM DIAGRAM





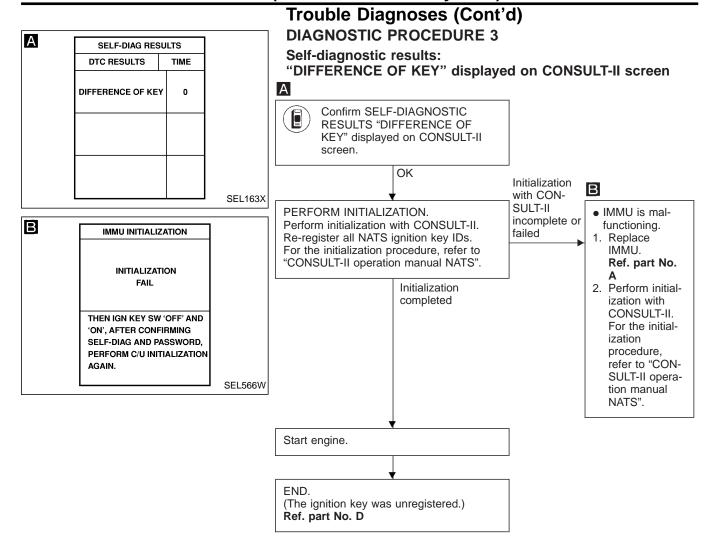


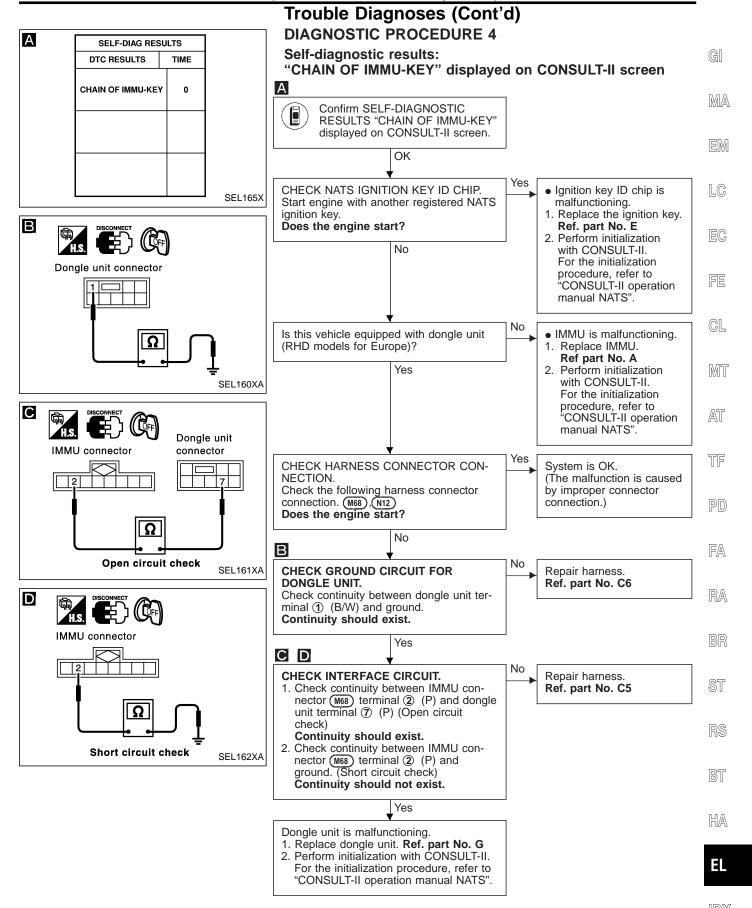


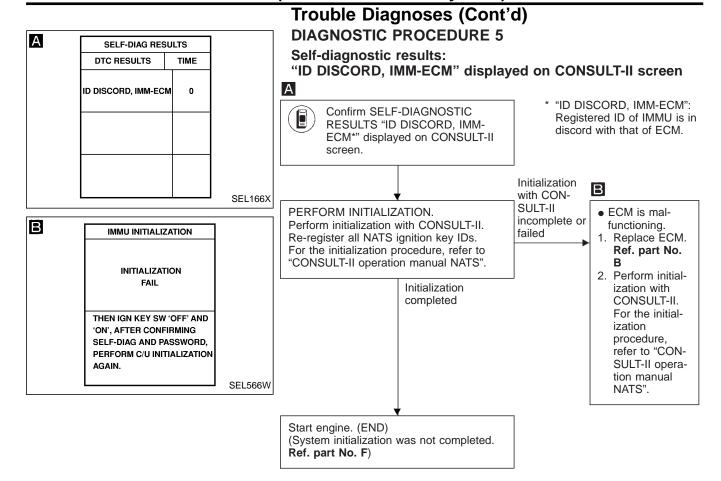
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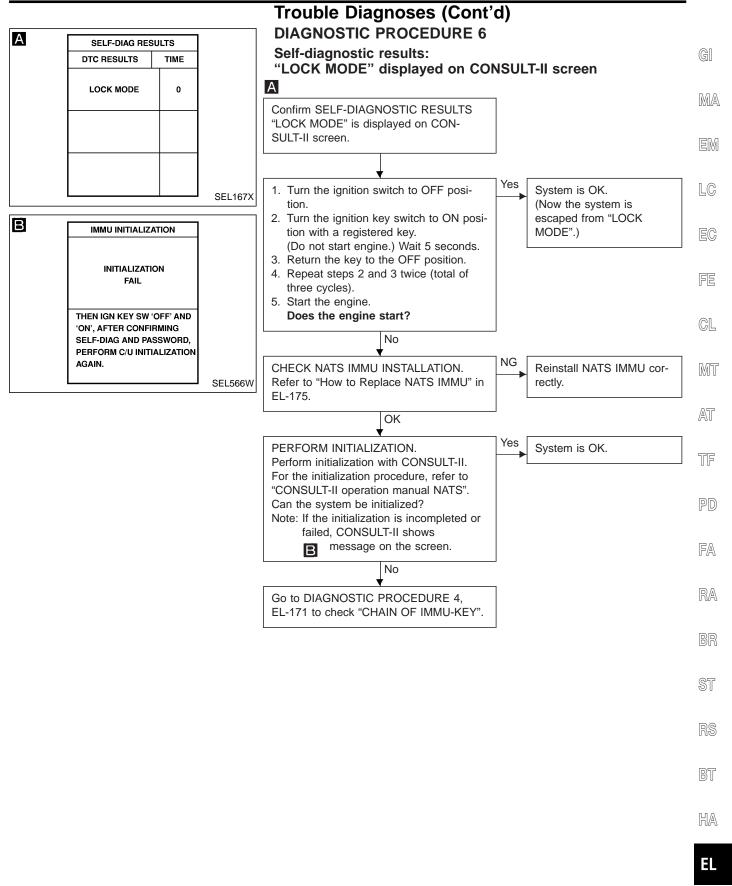
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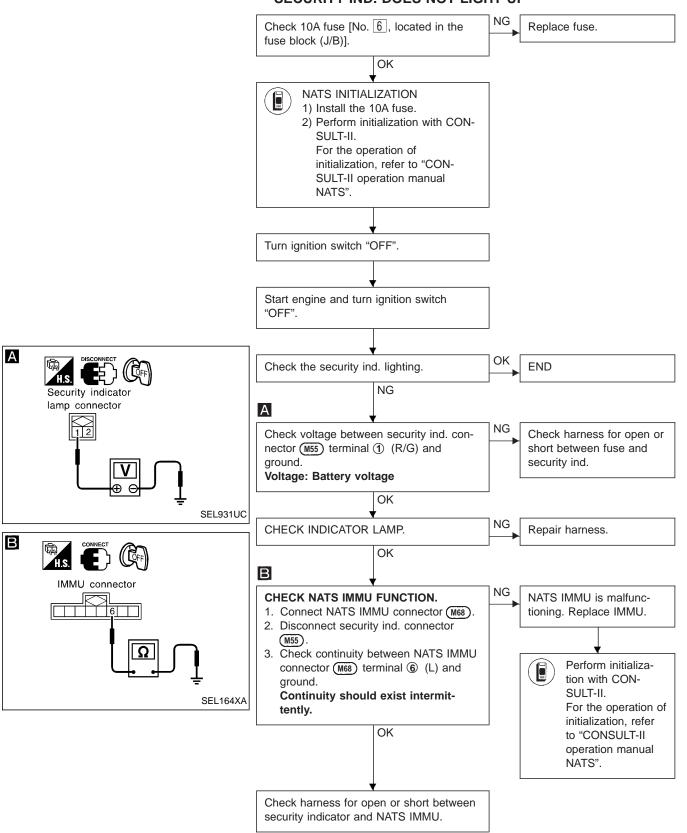


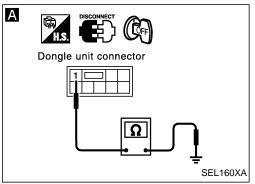


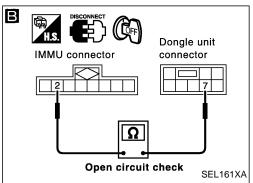


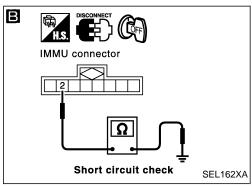


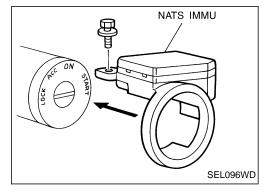
Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 7 "SECURITY IND. DOES NOT LIGHT UP"



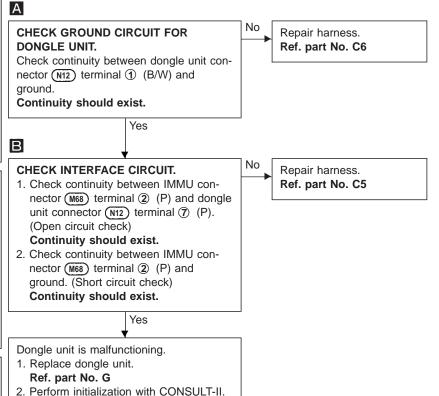








Trouble Diagnoses (Cont'd) DIAGNOSTIC PROCEDURE 8



How to Replace NATS IMMU

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

NOTE:

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

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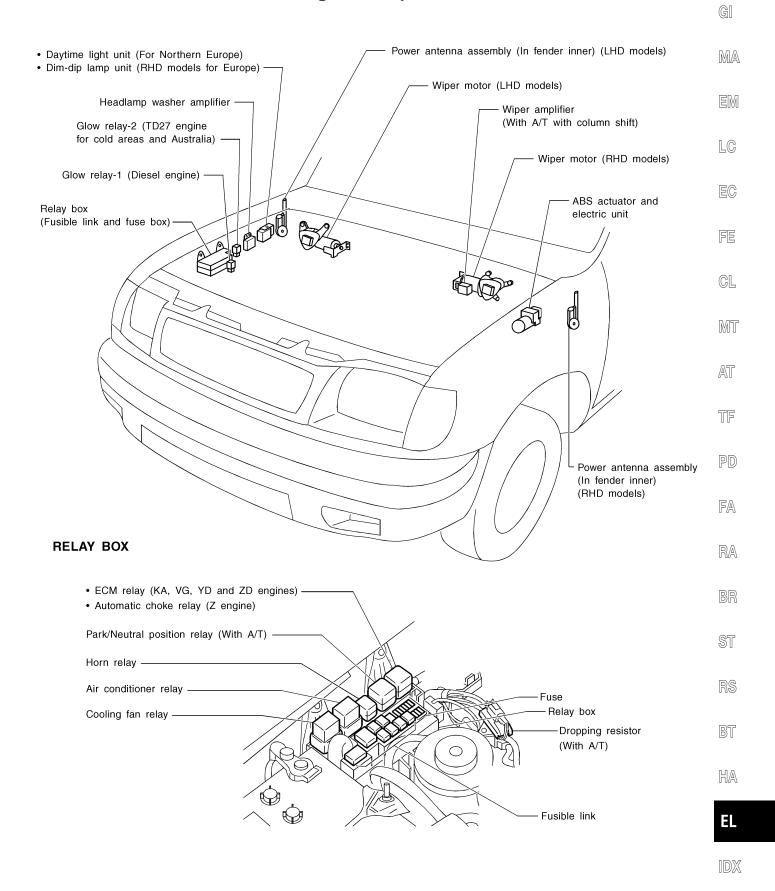
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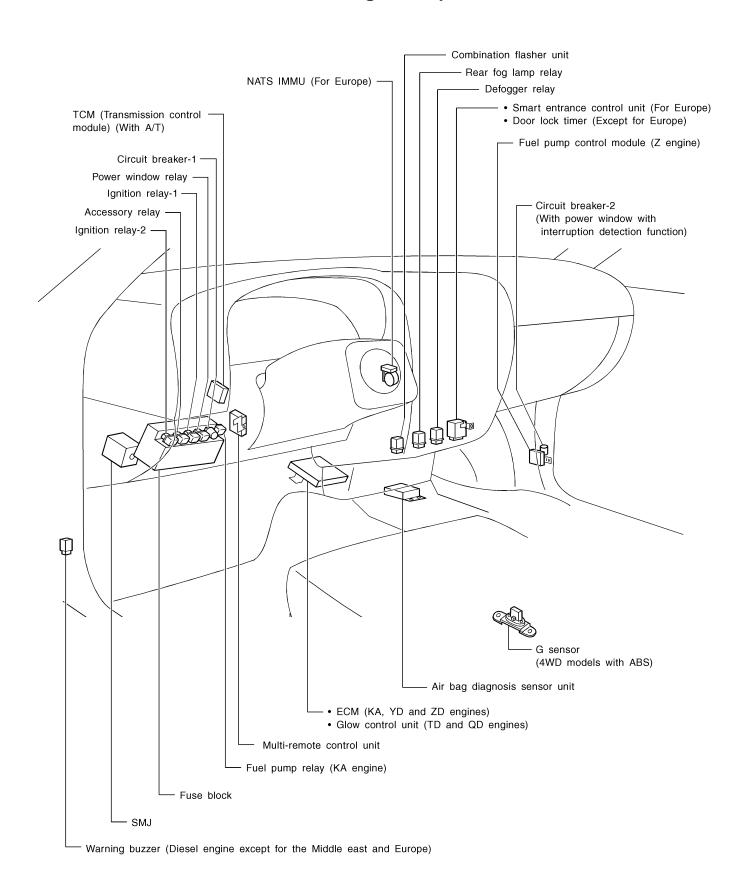
NOTE

LOCATION OF ELECTRICAL UNITS

Engine Compartment



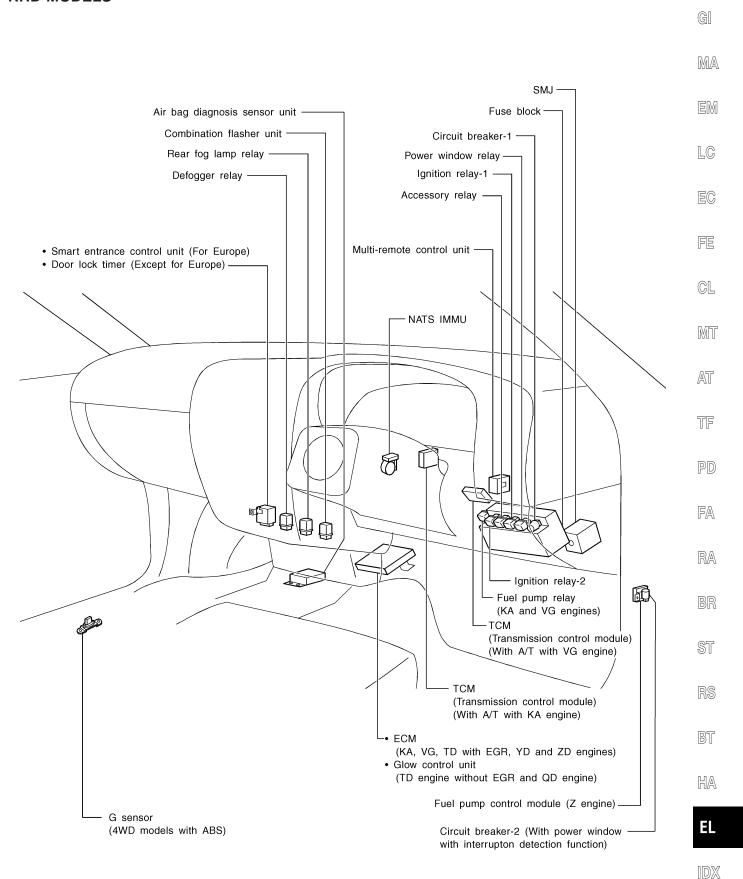
Passenger Compartment



LOCATION OF ELECTRICAL UNITS

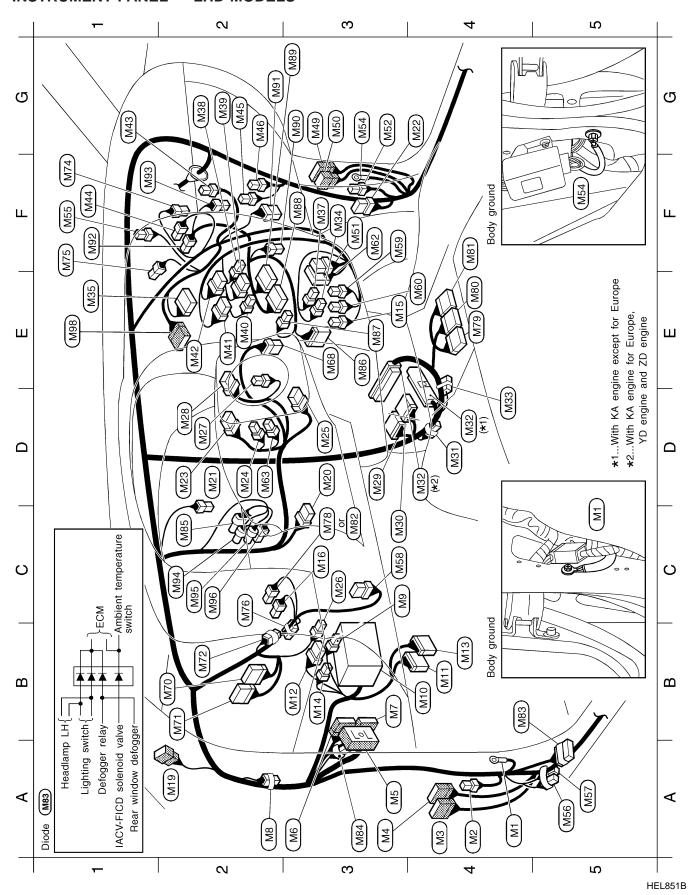
Passenger Compartment (Cont'd)

RHD MODELS



Main Harness

INSTRUMENT PANEL — LHD MODELS



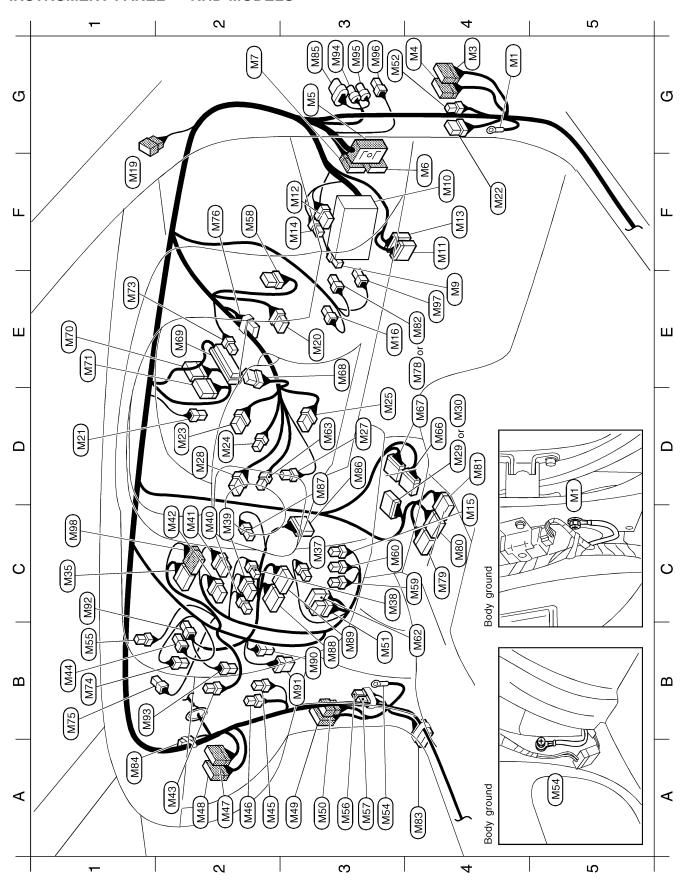
Main Harness (Cont'd)

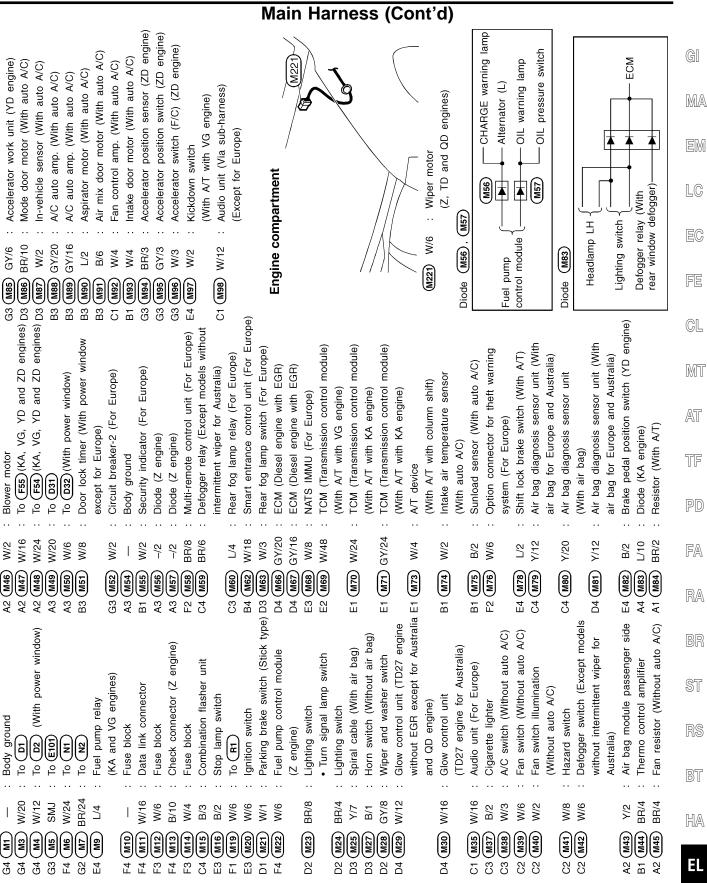
Main Harness (Cont a)	
Intake air temperature sensor (With auto A/C) Sunload sensor (With auto A/C) Option connector (For Europe) (For theft warning system) Shift lock brake switch (With A/T) Air bag diagnosis sensor unit Air deor motor (With auto A/C) A/C auto amp. (With auto A/C) A/C auto amp. (With auto A/C) A/C auto amp. (With auto A/C) Arcelerator motor (With auto A/C) Arcelerator motor (With auto A/C) Arcelerator position switch (ZD30) Accelerator position switch (F/C) (ZD30) Accelerator switch (F/C) (ZD30) Accelerator switch (F/C) (ZD30) Audio unit (Via sub-harness) (Except for Europe) Miss Fuel filter switch	GI Ma
Intake air temperature sensor (With auto A/C) Sunload sensor (With auto A/O) Sunload sensor (With auto A/Option connector (For Europe (For theff warning system) Shift lock brake switch (With Air bag diagnosis sensor unit (For pre-tensioner seat belt) Air bag diagnosis sensor unit (For pre-tensioner seat belt) Brake pedel position switch (Vith auto A/C auto amp. (With a	
Intak With	LC
F1 M74 W/2 : Int (W (W (M75) B/2 : Su (M76) W/6 : Op (F7	EG
F1 M73 W F1 M75 By C2 M76 W C2 M76 W C3 M78 L E4 M89 Y; F4 M81 Y; F4 M81 Y; F4 M81 Y; F4 M83 L/ A3 M88 G; G3 M88 G; G3 M88 G; G3 M88 G; G3 M89 L G2 M89 By F1 M89 W F1 M99 W F	FE
	CL
uto A/C) uto A/C) uto A/C) In A/C) uto A/C) auto A/C) window) window) window) window) window) window) window) window) window) is East th NATS) If A engine is East) lounit KA engine is East) lounit (For Europe) mit (For Europe) mit (For Europe) is East) lounit (For Europe) lounit	MT
lighter (Without auto A/C) vitch switch (Except for the state except Single cabingine) senger air bag modu ontrol amplifier or (Without auto A/C) store or (With power window) timer or (With ower window) or (Without auto A/C) or (With ower window) or (With ower window) or (With ower window) or (Without auto A/C) or (With ower window) or (Without auto A/C) or (With A/T)	AT
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BH2 WW3 WW6 WW6 WW6 WW6 WW6 WW6 WW6 WW2 WW2 WW2 WW7	FA
S S W W W W W W W W	RA
Body ground Warning buzzer (Diesel engine except for Europe and the Middle East) To (DZ) (With power window) To (NLZ) To (NLZ) To (NLZ) Diode (Diesel engine except for Europe and the Middle East) Fuel pump relay (KA engine) Fuse block Check connector Fuse block Combination flasher unit Stop lamp switch Parking brake switch (Stick type) Fuel pump control module (Z24S) Lighting switch Lighting switch Combination flasher unit Stop lamp switch Lighting switch Combination switch Combination switch Spiral cable (With air bag) Wiper and washer switch Glow control unit (TD engine except for cold areas) Joint 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)	BR
uzzer (Diesel engine Europe and the st) (With power window) seel engine except for d the Middle East) relay (KA engine) k connector connector k nnector (Z24S) k on flasher unit switch on flasher unit switch e witch le (With air bag) switch le (With air bag)	ST
Body ground Warning buzzer (Diesel engine except for Europe and the Middle East) To (DZ) To (NZ) To (N	RS
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Main Harness (Cont'd)

INSTRUMENT PANEL — RHD MODELS

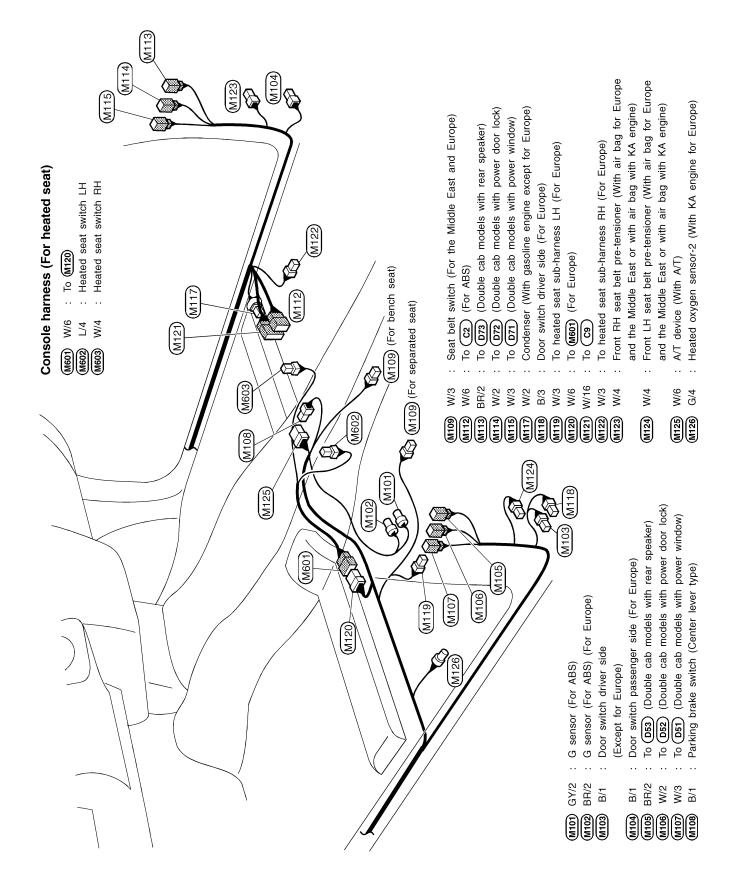




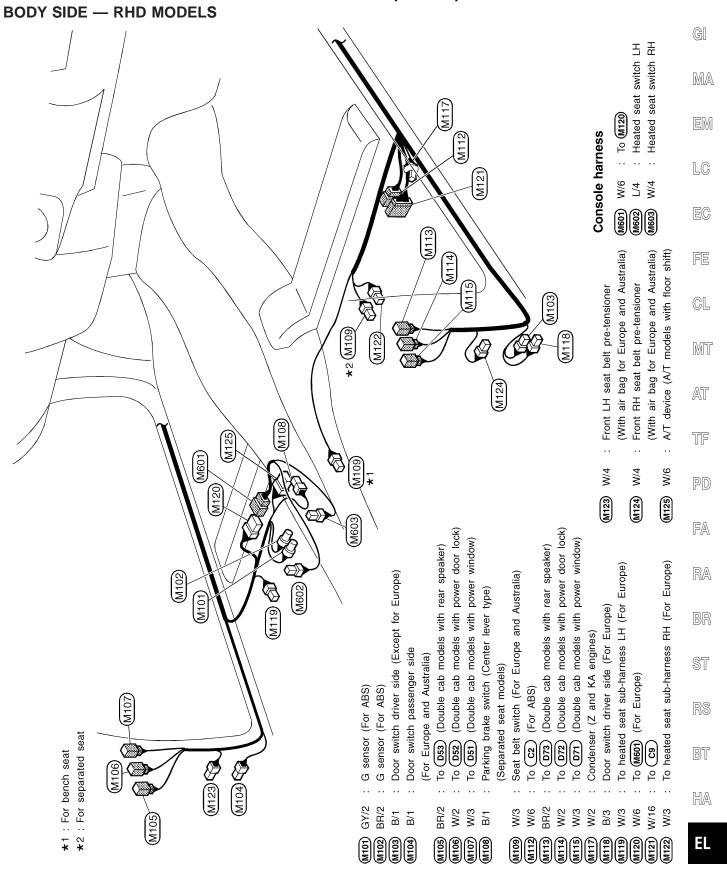
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Main Harness (Cont'd)

BODY SIDE — LHD MODELS



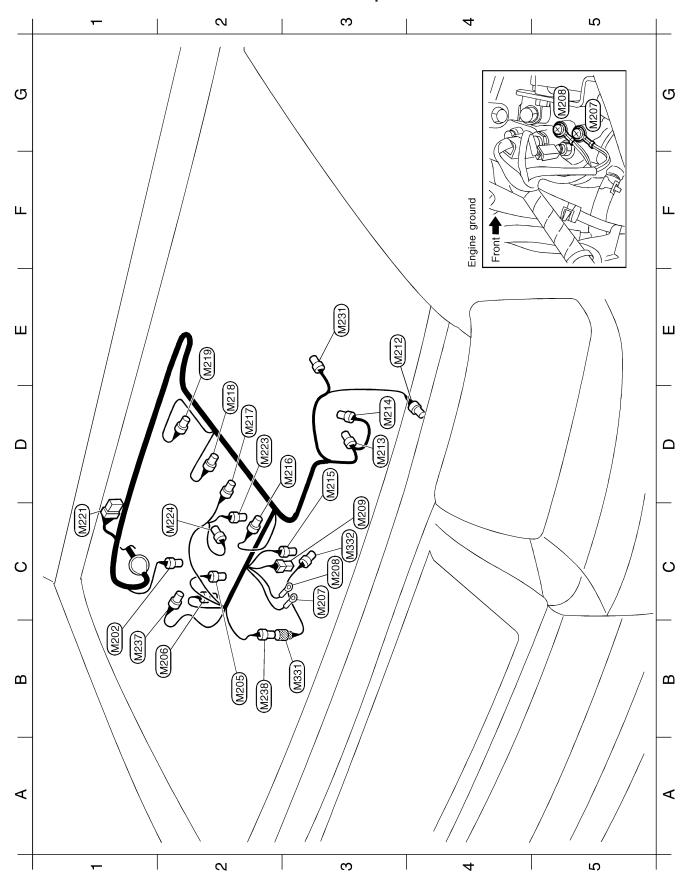
Main Harness (Cont'd)



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Main Harness (Cont'd)

ENGINE COMPARTMENT — LHD models/for Europe



: Knock sensor

B3 (M331) GY/2 : To (M238) C3 (M332) GY/2 : Knock se

Sub-harness

EVAP canister purge control solenoid valve

Throttle position sensor Throttle position switch

Thermal transmitter

Compressor Distributor Distributor

Engine ground Engine ground Engine coolant temperature sensor

— B/1 B/1 B/1 GY/2 GY/6 GY/6 GY/2 B/2 B/2 W/6

B 1 (MZQ)
C (MZZ)
C (M

Injector No.2 Injector No.3 Injector No.1

Injector No.4 Wiper motor IACV-FICD solenoid valve Heated oxygen sensor 1

IACV-AAC valve

Main Harness (Cont'd)

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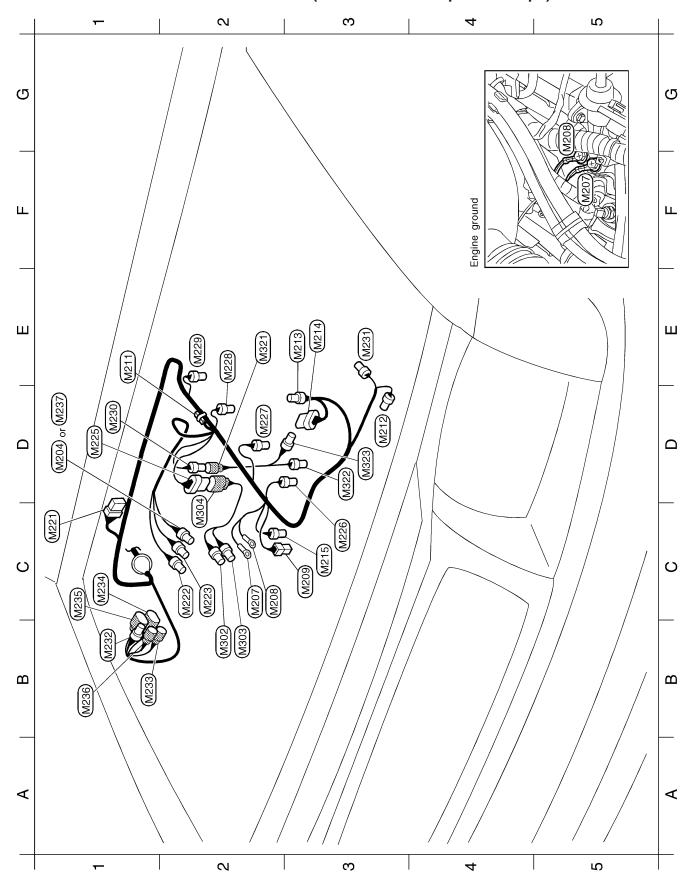
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Main Harness (Cont'd)

ENGINE COMPARTMENT — KA ENGINE (LHD models Except for Europe)



Main Harness (Cont'd)

ECM Ignition coil Resistor (M211)

Sub-harness

Mass air flow sensor (With three way catalyst)

Thermal transmitter

Compressor Distributor Distributor

> GY/2 GY/6

Resistor

Engine ground Engine ground

BR/3

Throttle position switch (A/T models) Throttle position sensor To (M225) To (M230) GY/3 9/B

B2 (M302) B2 (M303) C2 (M304) E2 (M321) D3 (M323)

: Oil pressure switch

Knock sensor

Engine coolant temperature sensor

Wiper motor

IACV-FICD solenoid valve GY/2

9/M

IACV-AAC valve Injector No.1 To (M304) B/2 BR/2 GY/6

Injector No.2 GY/2 GY/2

Injector No.3 Injector No.4 GY/2 GY/2

Heated oxygen sensor-1 (With three way catalyst) Dropping resistor (With A/T) To (M321) GY/2

Park/Neutral position (PNP) switch (With A/T) Park/Neutral position (PNP) switch (With A/T) GY/2

To terminal cord assembly (With A/T) Revolution sensor (With A/T)

Mass air flow sensor (Without three way catalyst)

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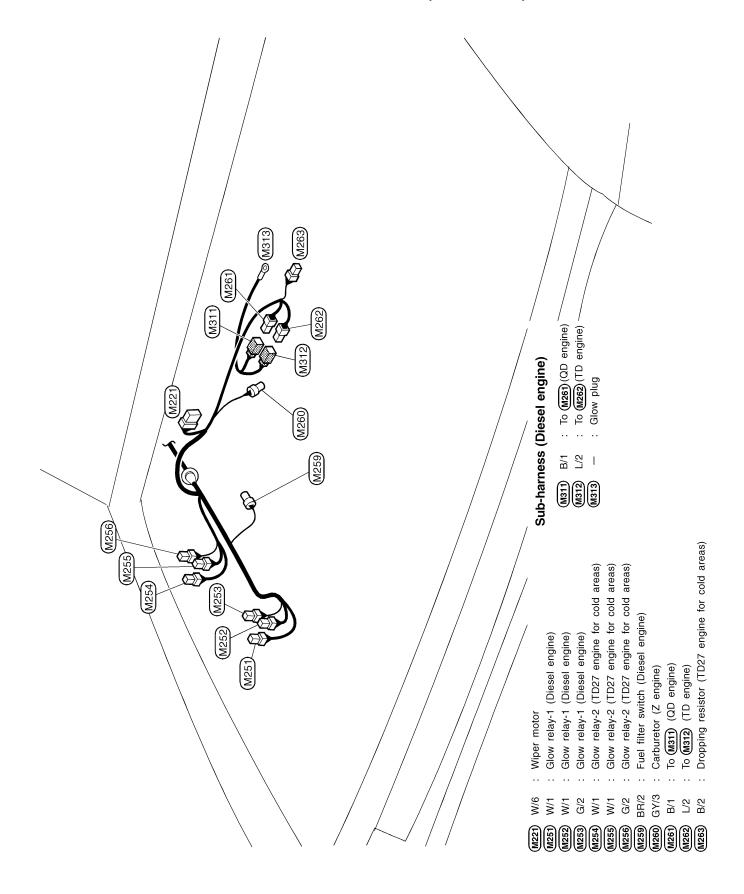
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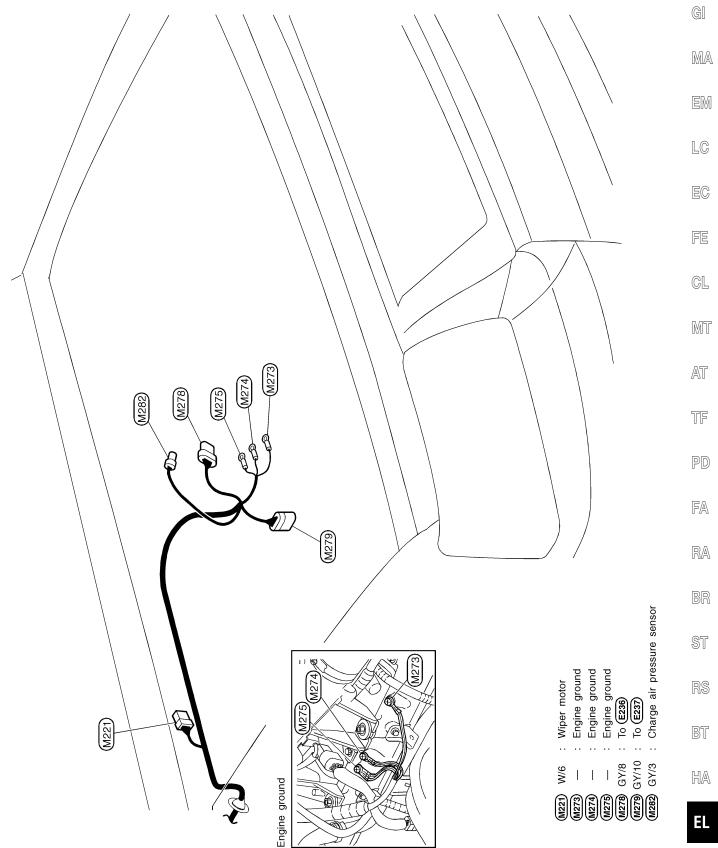
Main Harness (Cont'd)

ENGINE COMPARTMENT — Z, TD AND QD ENGINES (LHD models)



Main Harness (Cont'd)

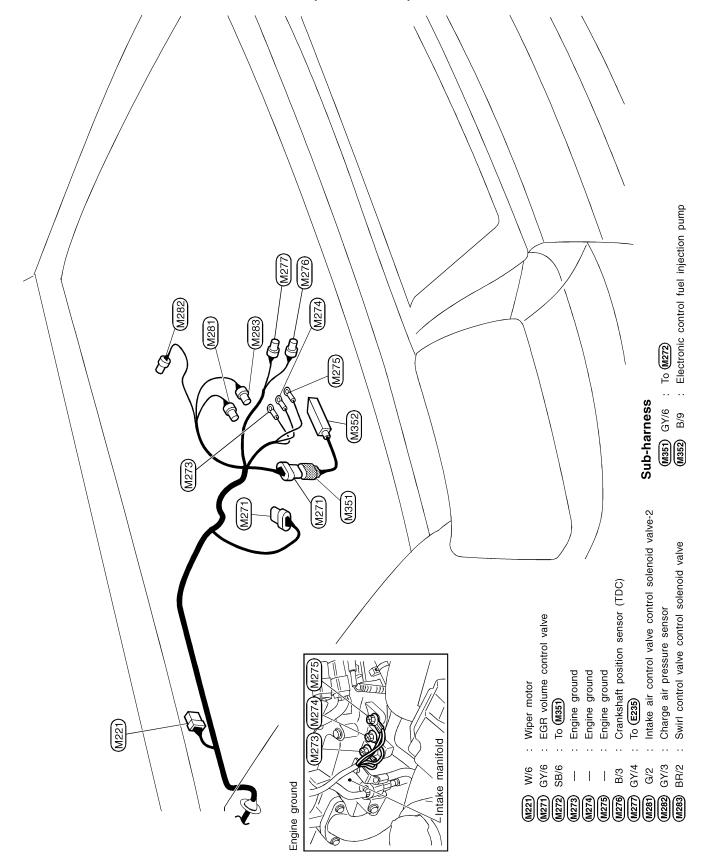
ENGINE COMPARTMENT — YD ENGINE (LHD models)



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Main Harness (Cont'd)

ENGINE COMPARTMENT — ZD ENGINE (LHD models)



NOTE

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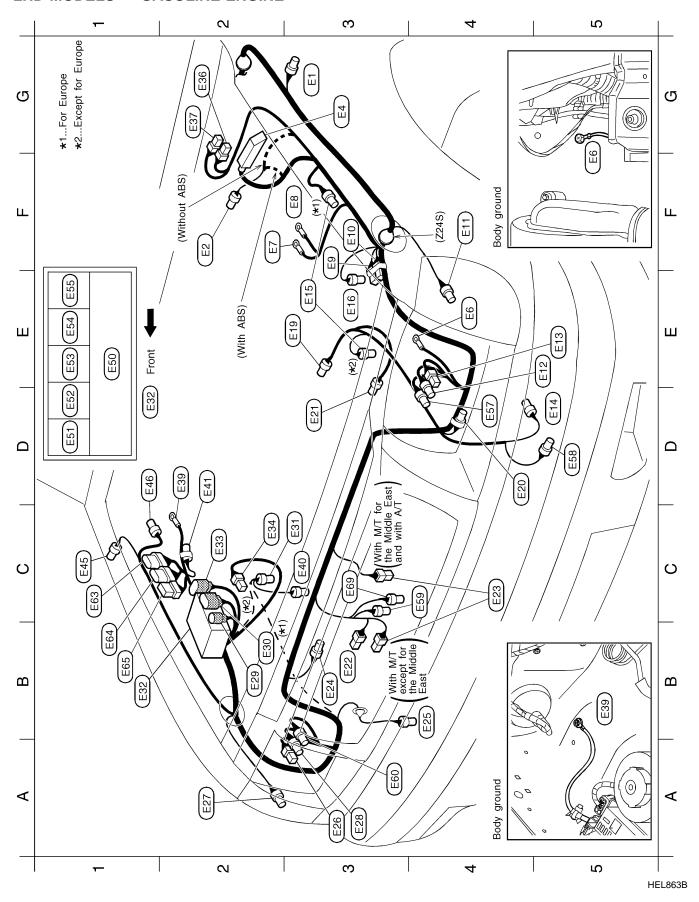
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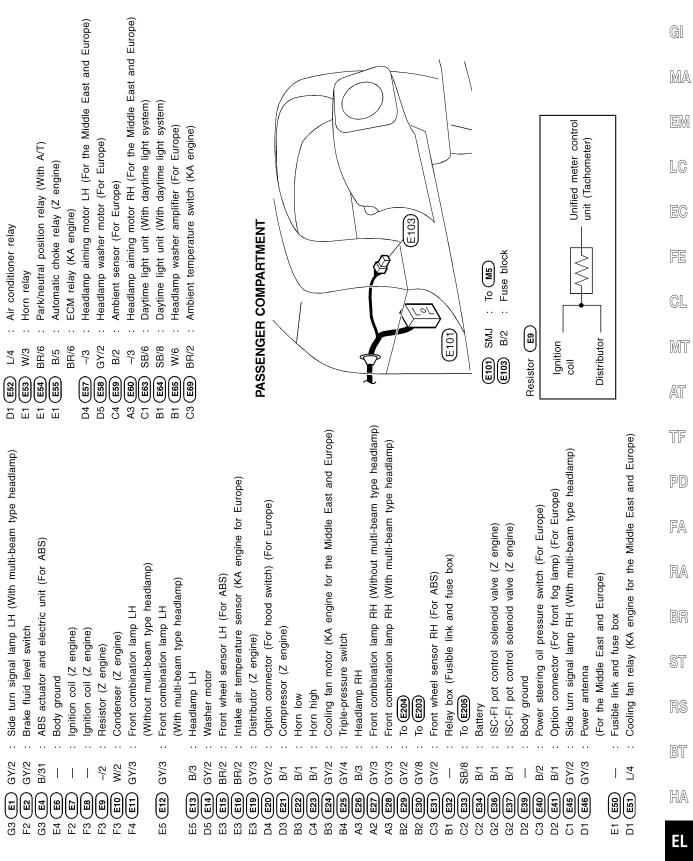
Engine Room Harness

LHD MODELS — GASOLINE ENGINE



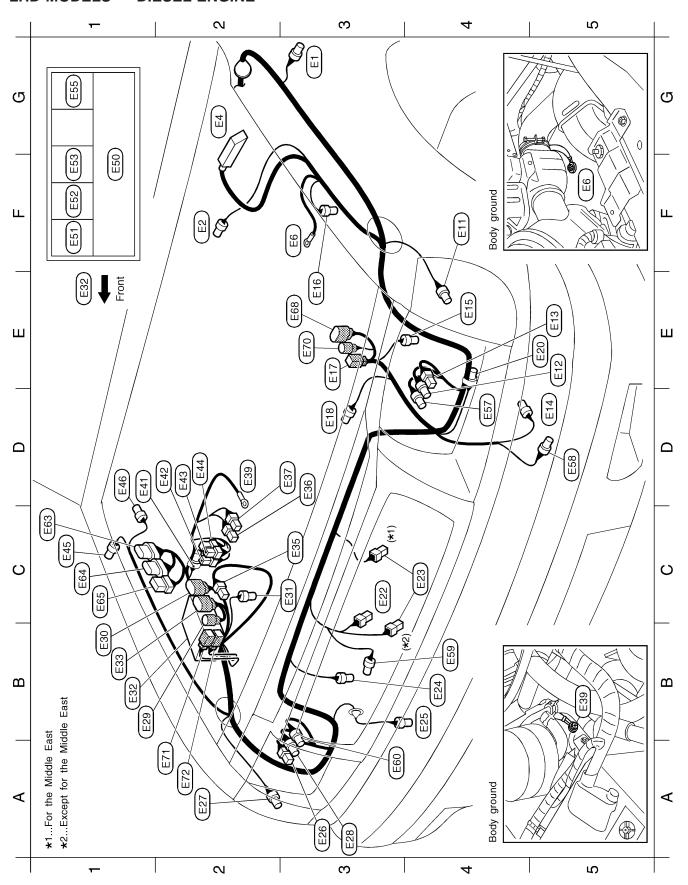
EL-194

Engine Room Harness (Cont'd)



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LHD MODELS — DIESEL ENGINE



Engine Room Harness (Cont'd)

D4 (E57) -/3 : Headlamp aiming motor LH (For the Middle East and Europe) B4 (E58) GY/2 : Headlamp washer motor (For Europe) B4 (E59) B/2 : Ambient sensor (For auto A/C) (YD and ZD engines) A3 (E60) -/3 : Headlamp aiming motor RH (For the Middle East and Europe) C1 (E63) SB/6 : Daytime light unit (With daytime light system) C1 (E64) SB/8 : Daytime light unit (With daytime light system) C1 (E65) W/6 : Headlamp washer amplifier (For Europe) E3 (E66) GY/8 : To (A13) (TD and QD engines) A2 (E77) B/2 : To (E23) (YD and ZD engines) A2 (E72) B/1 : To (E232) (YD and ZD engines)	PASSENGER COMPARTMENT E101 E101 E103 E	
Side turn signal lamp LH (Except for the Middle East) Brake fluid level switch ABS actuator and electric unit (For ABS) Body ground Front combination lamp LH (For the Middle East) Headlamp LH Washer motor Front wheel sensor LH (For ABS) Intake air temperature sensor (YD and ZD engines) To (AZ) Thermoswitch (TD engine for the Middle East and QD engines) Horn low		
G3 (E1) GY/2 G2 (E4) B/31 F3 (E6) B/31 F4 (E11) GY/3 E5 (E12) GY/3 E5 (E13) B/3 E5 (E13) B/3 E5 (E14) GY/3 E4 (E15) B/2 E3 (E16) GY/2 E3 (E16) GY/2 E4 (E16) GY/2 E5 (E16) GY/		

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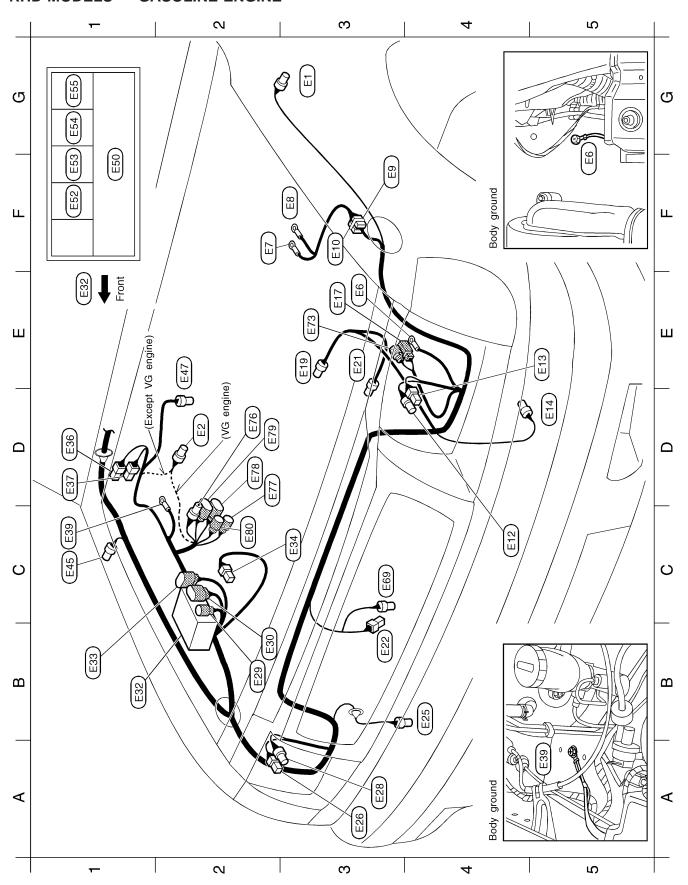
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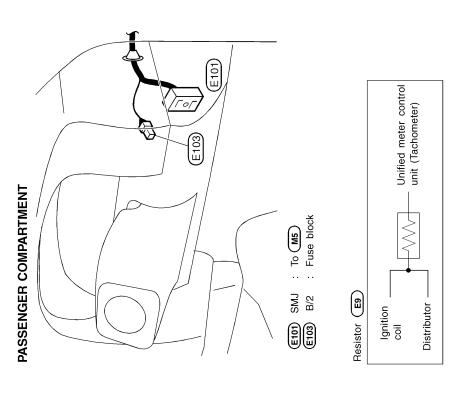
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RHD MODELS — GASOLINE ENGINE



Engine Room Harness (Cont'd)



Park/Neutral position switch (With A/T) Park/Neutral position switch (With A/T) To terminal cord assembly (With A/T)

Dropping resistor (With A/T)

GY/2 GY/2 GY/8

Side turn signal lamp LH

Brake fluid level switch

(E)

(13)

Ignition coil (Z engine) Ignition coil (Z engine)

F2 **E7**

(8)

Body ground

D2 **E77**) D2 (E76)

D2 **E78**

To (A3) (VG engine)

Revolution sensor (With A/T)

BR/8

D2 **E79** C2 **E80**

GY/3

Front combinaiton lamp LH

GY/3

W/2

-/2

Condenser (Z engine)

Resistor (Z engine)

FA

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BR

Ambient temperature switch (KA engine)

C3 **E69**

Automatic choke relay (Z engine)

Park/Neutral position relay (With A/T)

BR/6

E3 (E3

ECM relay (KA engine)

ECM relay (VG engine)

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ISC-FI pot control solenoid valve (Z engine) ISC-FI pot control solenoid valve (Z engine)

Side turn signal lamp RH

GY/2 GY/3

Body ground

Carburetor (Z engine)

Fusible link and fuse box

Air conditioner relay

Horn relay

W/3

(EE

Relay box (Fusible link and fuse box)

To (E205) (Except VG engine)

SB/8

Battery

B/1 B/1

To (E203) (Except VG engine)

(VG engine)

To (E502)

Front combination lamp RH (For Australia)

Compressor (Z engine)

Triple-pressure switch

GY/4

B4 (E25)

Horn low

B/1 B/1

Headlamp RH

B/3

GY/3

A3 E26 A3 E28 B2 E29

GY/2

To (A2) (VG engine)

Washer motor Headlamp LH

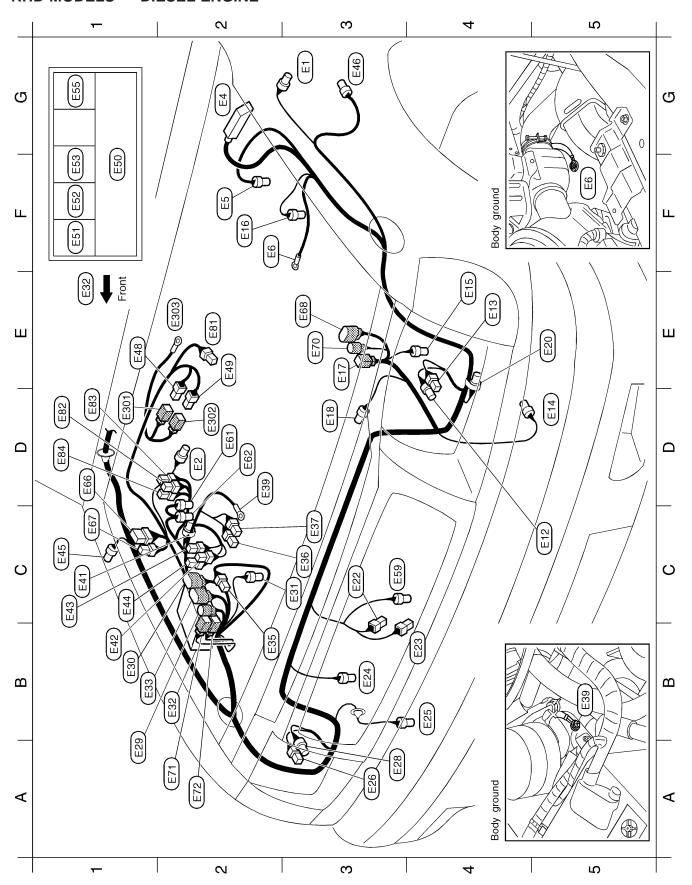
> GY/2 B/2 GY/3

B/3

Distributor (Z engine)

To (E204) (Except VG engine)

RHD MODELS — DIESEL ENGINE

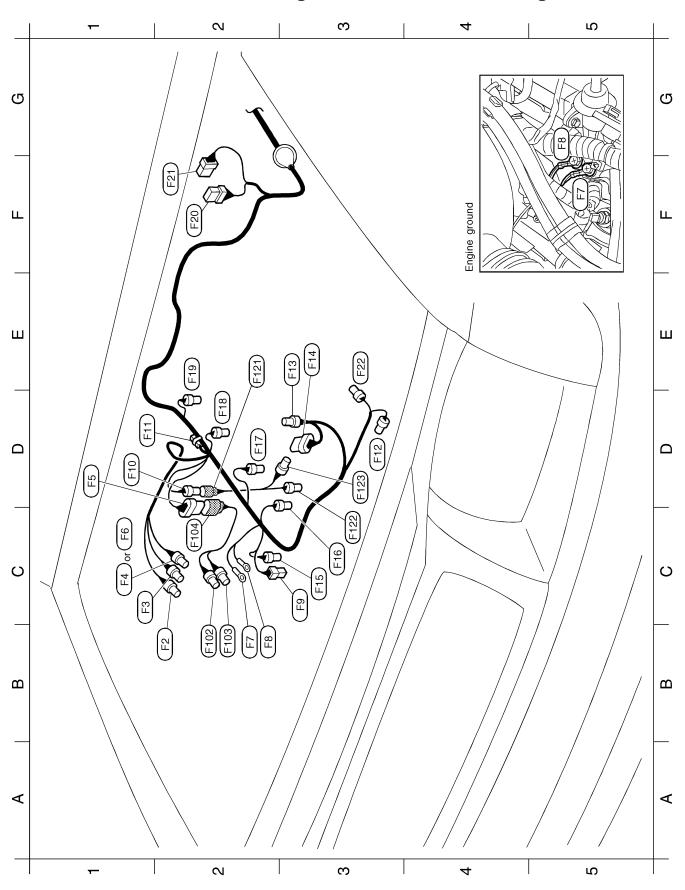


Engine Room Harness (Cont'd)

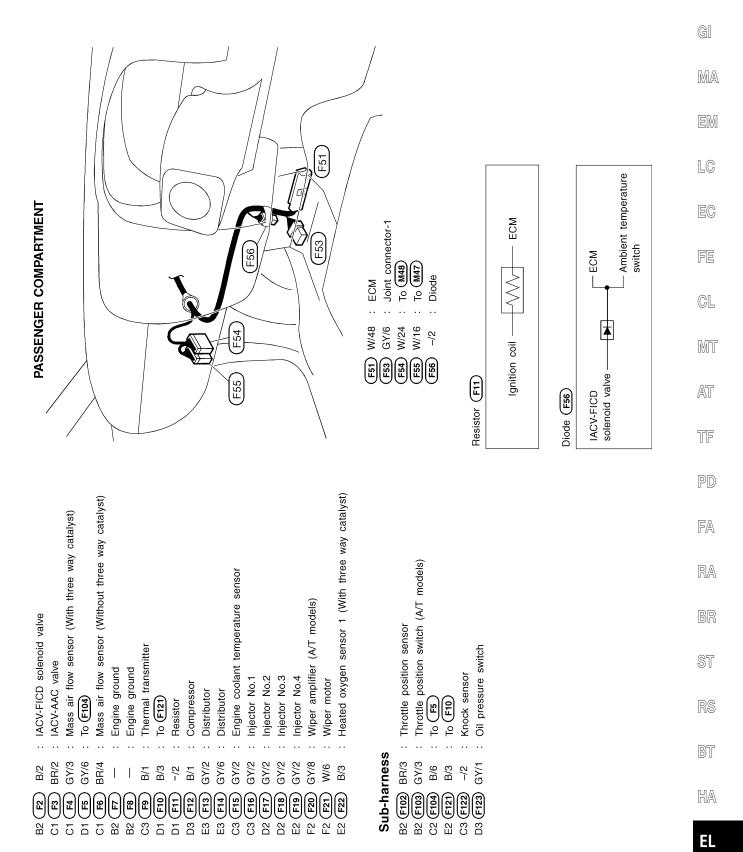
G[MA Dropping resistor (TD engine for Australia) E101) EGRC-solenoid valve (Throttle chamber) Glow relay-2 (TD engine for Australia) Glow relay-2 (TD engine for Australia) Glow relay-2 (TD engine for Australia) EM EGRC-solenoid valve (EGR valve) Glow plug (TD and QD engines) (YD and ZD engines) (YD and ZD engines) Dim-dip lamp unit (For Europe) Dim-dip lamp unit (For Europe) (TD and QD engines) (YD and ZD engines) (E103) LC (TD engine with EGR) To E48 (QD engine) (TD engine with EGR) (TD engine) PASSENGER COMPARTMENT EC : Fuse block To (E49) To (A13) To (A14) To (E232) To (E231) To (M5) FE GL SMJ GY/8 BR/2 GY/4 BR/3 B/2 Sub-harness B/2 W/1 W/1 B/2 B/2 B/1 B/1 1/2 E103 D1 (E301) D2 (E302) E2 (E303) D2 **E62** E3 (E68) A2 (E71) A2 (E72) E2 (E81) D1 (E82) D1 (E83) MT D2 **E61** (E67 5 5 AT Horn high (ZD engine except for Australia, YD and QD engines) TF PD Intake air temperature sensor (YD and ZD engines) Option connector (For front fog lamp) (For Europe) Option connector (For hood switch) (For Europe) IACV-FICD solenoid valve (TD and QD engines) IACV-FICD solenoid valve (TD and QD engines) FA ABS actuator and electric unit (For ABS) Cooling fan motor (Except TD engine) Relay box (Fusible link and fuse box) Ambient sensor (YD and ZD engines) Cooling fan relay (Except TD engine) Fuel filter switch (Except for Europe) To (E203) (With ECM control engine) RA Front wheel sensor RH (For ABS) Front wheel sensor LH (For ABS) ECM relay (YD and ZD engines) To (E206) (TD and QD engines) Power antenna (For Europe) Front combination lamp RH Front combination lamp LH Thermoswitch (QD engine) BR Side turn signal lamp RH Side turn signal lamp LH Fusible link and fuse box Brake fluid level switch To E301 (QD engine) (TD engine) Triple-pressure switch Air conditioner relay ST Headlamp RH Washer motor Headlamp LH Body ground Body ground Glow relay-1 Glow relay-1 Glow relay-1 Horn relay Horn low To (E302) To (**E204**) To (**E205**) To (A2) RS BT GY/3 GY/2 BR/3 GY/2 GY/8 GY/2 BR/2 GY/2 GY/2 GY/2 GY/4 GY/2 SB/8 **G/**2 GY/2 GY/3 B/2 B/1 B/1 B/3 W/1 W/1 B/3 B/1 B/1 B/1 B/1 D5 **E14** E4 **E15** E3 **E17**D3 **E18**E5 **E20**C3 **E22** HA C1 (E44) C1 **E45** G3 **E46** G2 **E4** E4 (E13) F2 **E16** B4 (E23) E1 (E48) F2 **E5** (11) C5 **E12** E51 E52 EL

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Engine Control Harness/KA engine



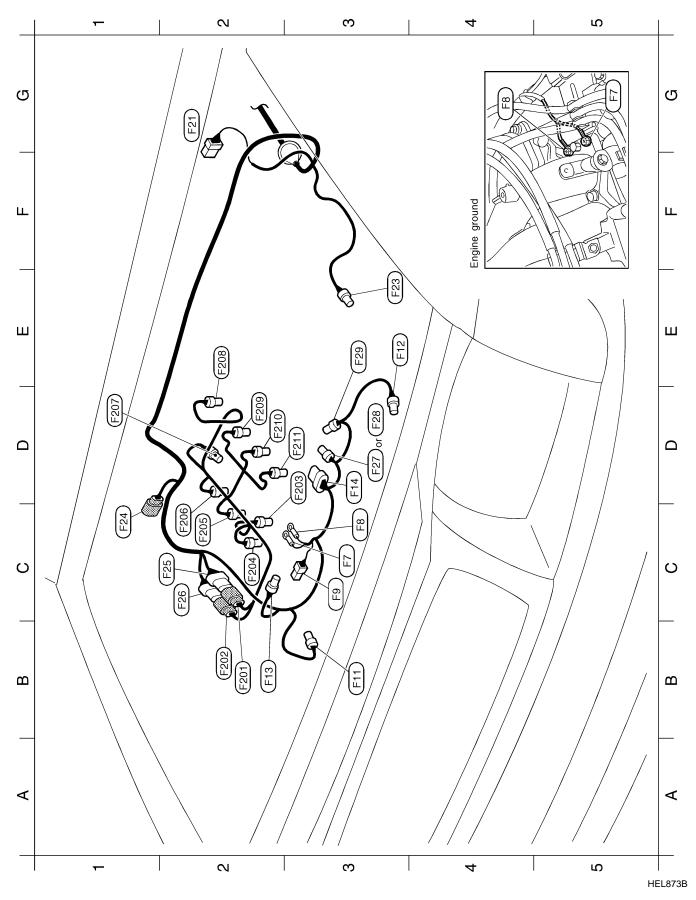
Engine Control Harness/KA engine (Cont'd)



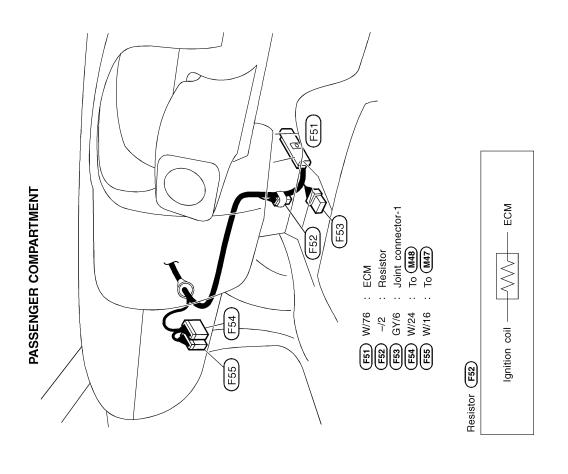
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Engine Control Harness

VG ENGINE



Engine Control Harness (Cont'd)



Throttle position sensor (M/T models) Throttle position sensor (A/T models) Throttle position switch (A/T models) Engine coolant temperature sensor Power steering oil pressure switch Mass air flow sensor IACV-Air regulator IACV-AAC valve Injector No.5 Injector No.6 Injector No.1 Injector No.3 Injector No.4 Injector No.2 Wiper motor Compressor Distributor Distributor 70 F201 To (F25) To (E228) GY/6 W/6 B/4 SB/8 SB/8 GY/8 BR/3 GY/3 B/3 SB/8 GY/8 GY/2 B/1 B/2 B/1 GY/2 B/2 B/2 B/2 LG/2

Thermal transmitter

Engine ground **Engine ground** G[

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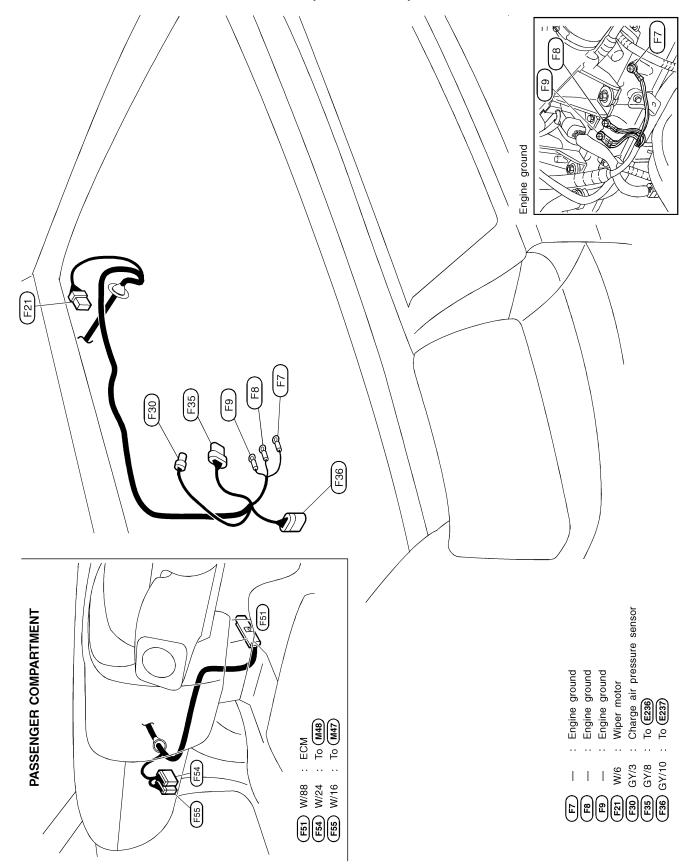
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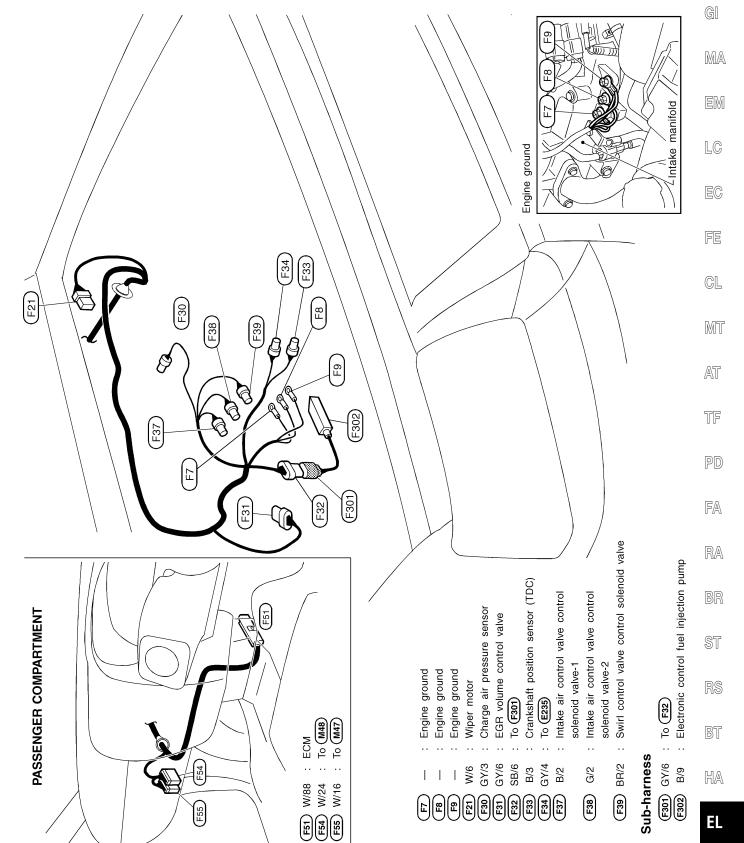
Engine Control Harness (Cont'd)

ENGINE COMPARTMENT — YD ENGINE (RHD models)



Engine Control Harness (Cont'd)

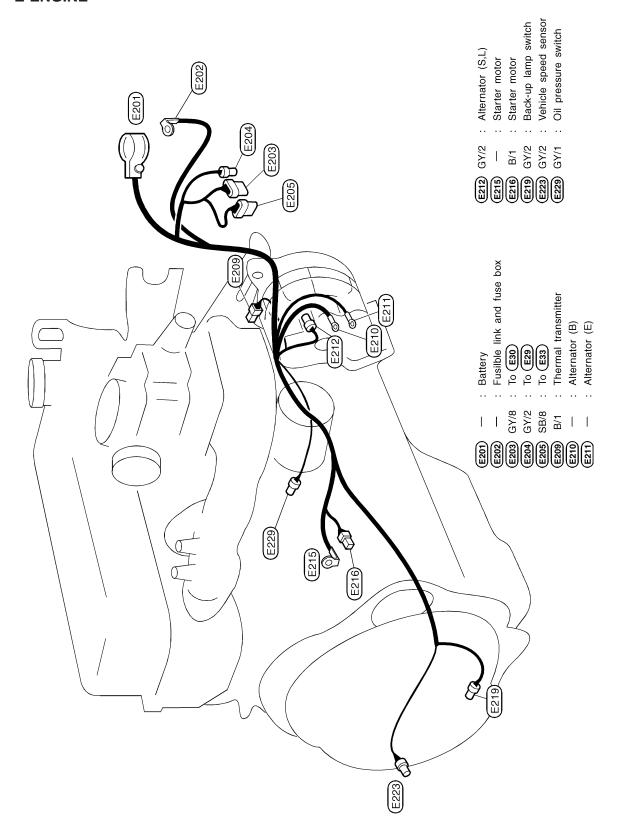
ENGINE COMPARTMENT — ZD ENGINE (RHD models)



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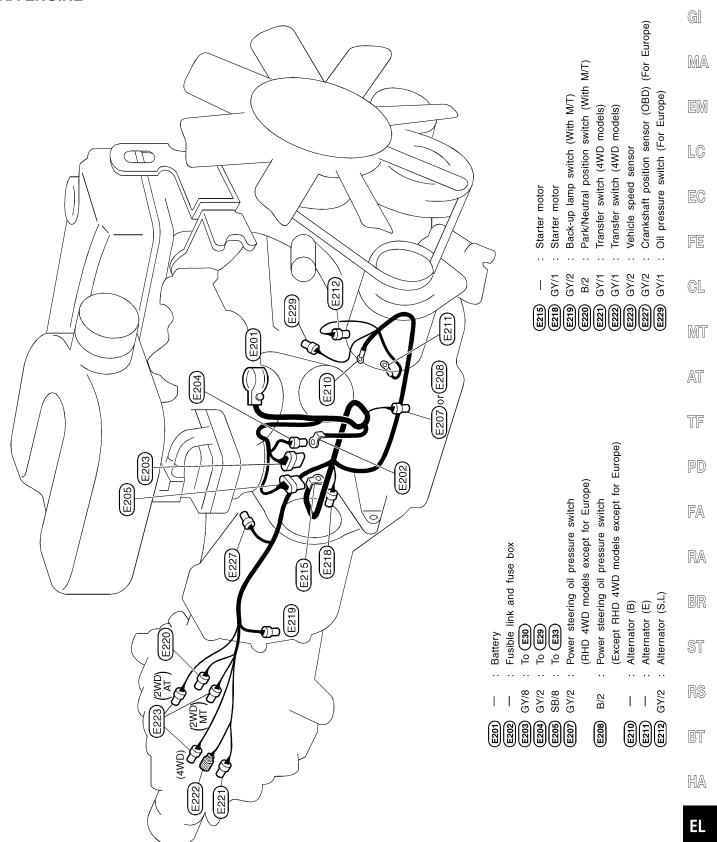
Engine Harness

Z ENGINE



Engine Harness (Cont'd)

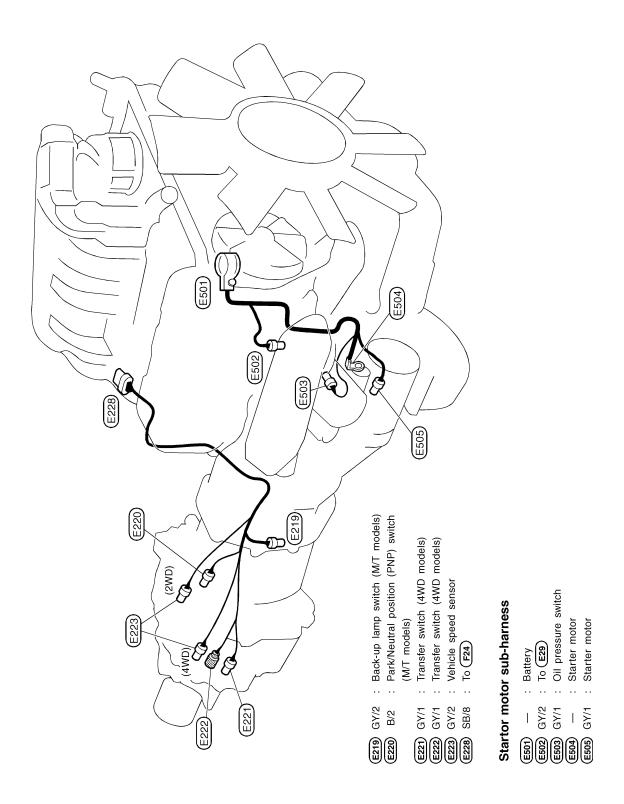
KA ENGINE



HEL877B

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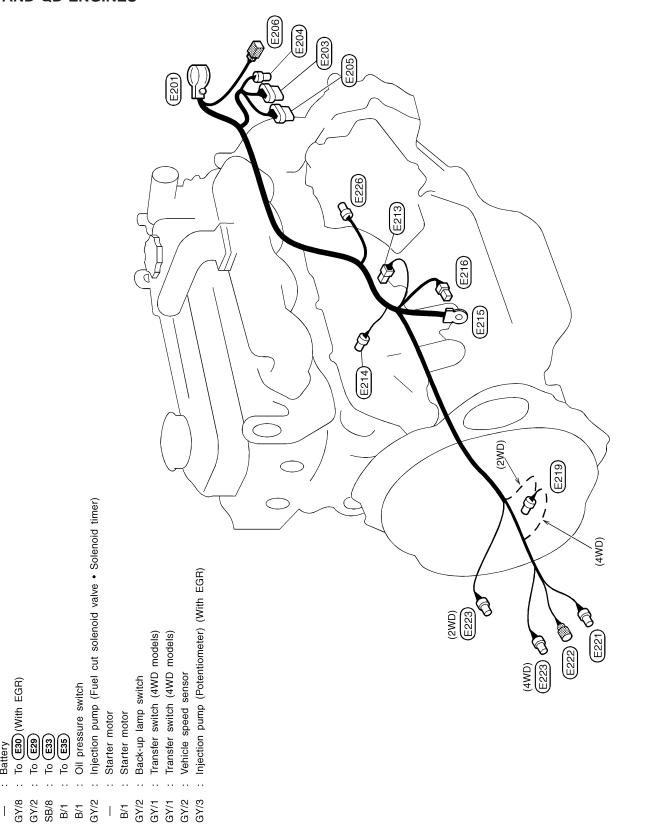
VG ENGINE



TD AND QD ENGINES

To (E30) (With EGR)

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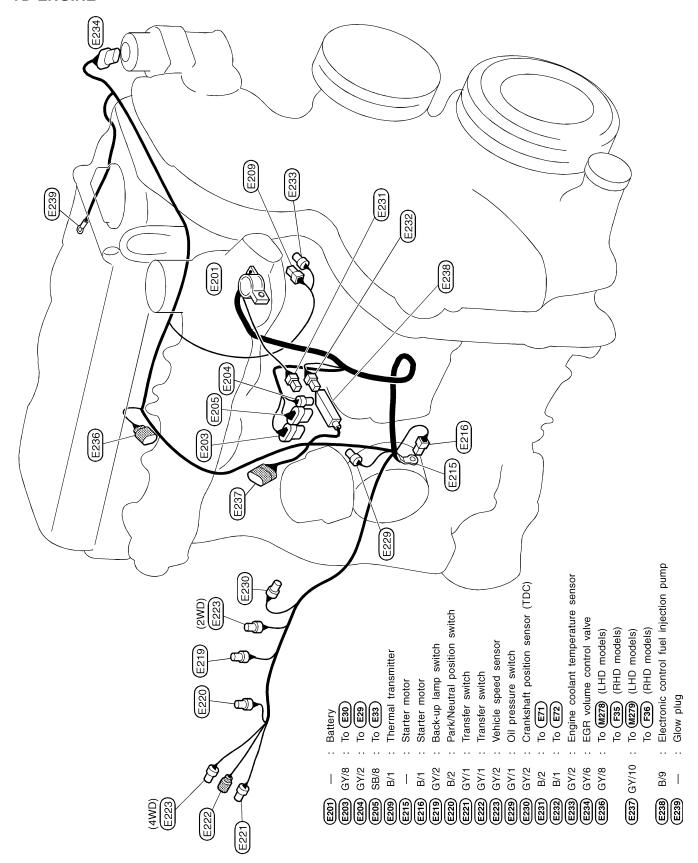
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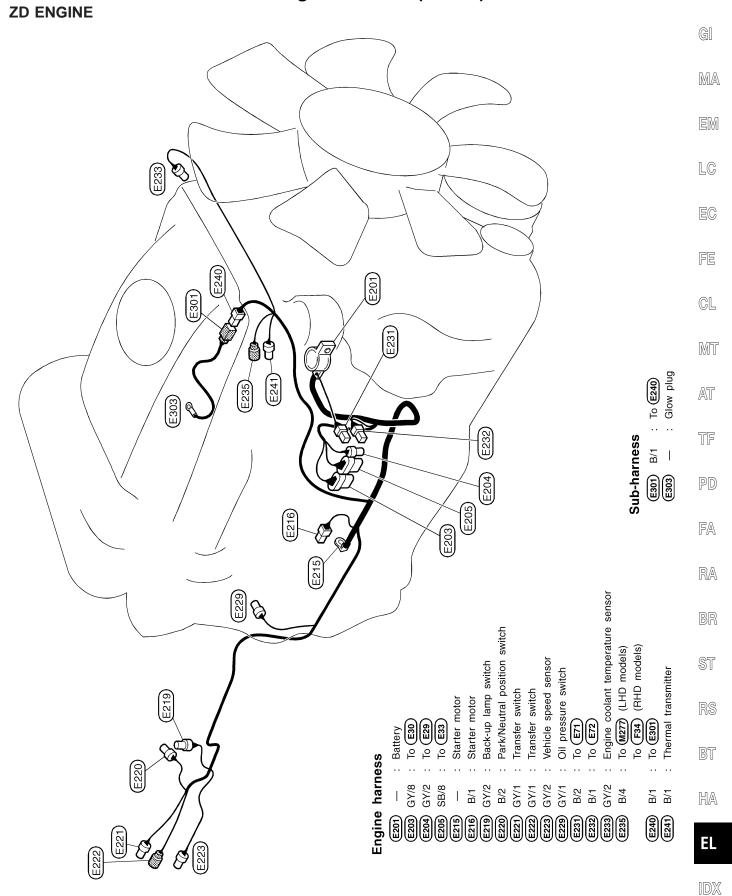
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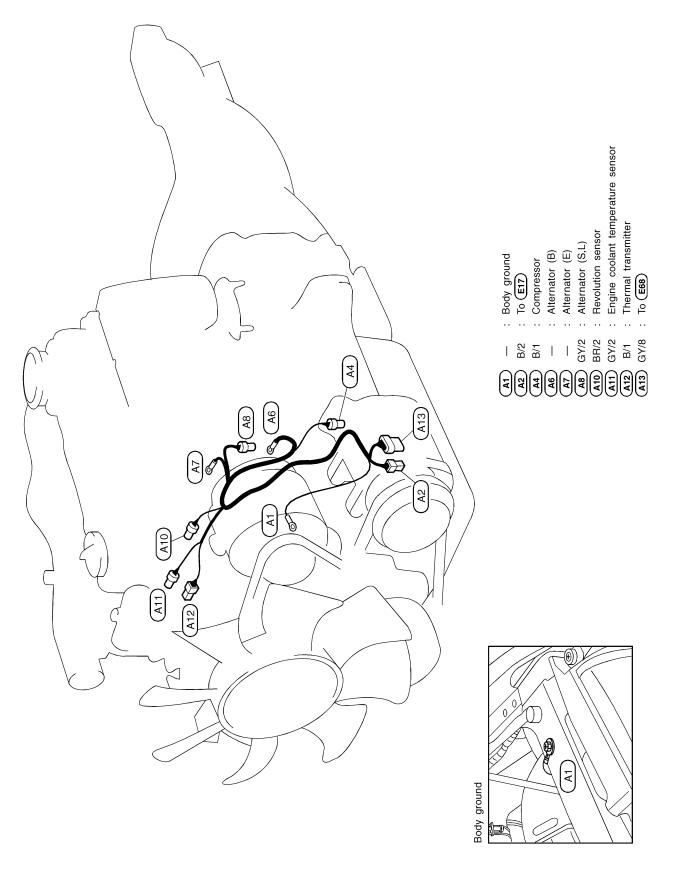
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YD ENGINE



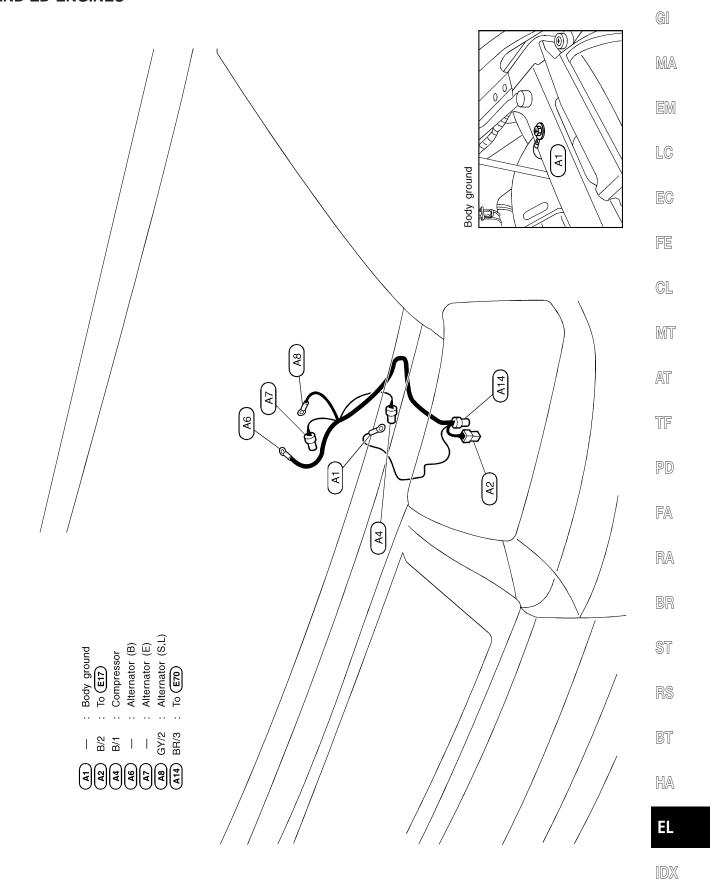


Alternator Harness

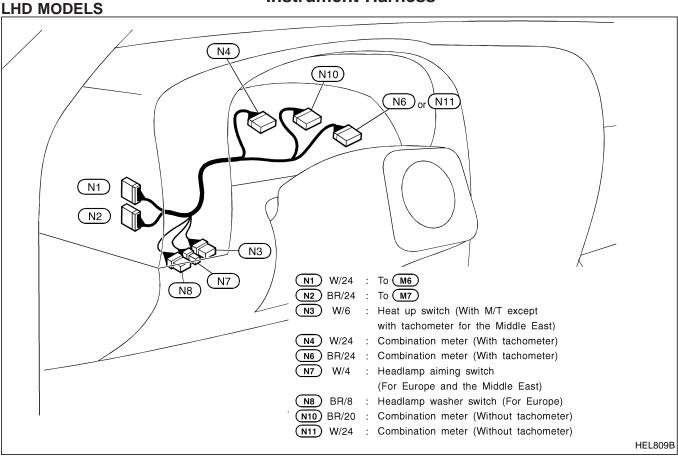


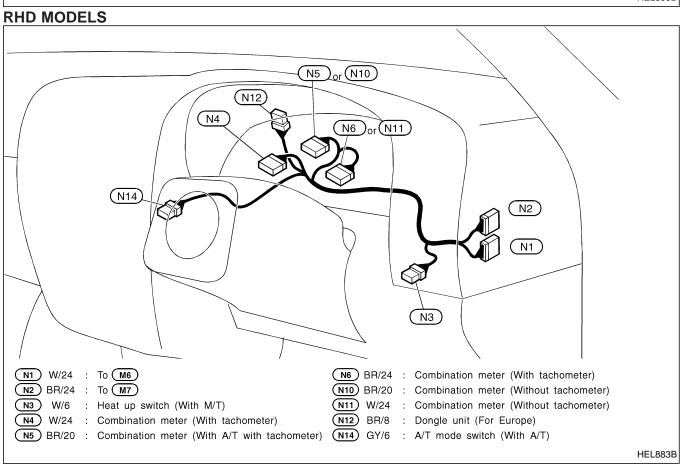
Alternator Harness (Cont'd)

YD AND ZD ENGINES



Instrument Harness





Chassis Harness and Tail Harness G[: High-mounted stop lamp (With guard bar for the Middle East) MA (4WD models and 2WD models with LT30 rear brake) EM To rear wheel sensor sub-harness (For ABS) : Fuel level sensor unit and fuel pump (2WD models with LT26B rear brake) LC Rear wheel sensor (For ABS) 8EC : To (M112) (With ABS) (60 FE GL To (T4 Chassis harness MT G10 W/16 GY/5 BR/2 SB/4 GY/2 **SB/8** 9/M AT [2] [2] ෂ ဗြ ဗြ ទ [2]TF ဗြ PD Rear combination lamp RH (For Europe, Australia and China Rear combination lamp LH (For Europe, Australia and China Ξ FA except A-chassis models or with regular rear body) except A-chassis models or with regular rear body) Rear fog lamp (RHD A-chassis models for Europe) Rear fog lamp (LHD A-chassis models for Europe) : License plate lamp RH (Without step bumper) License plate lamp LH (Without step bumper) RA (A-chassis models or with smooth rear body (A-chassis models or with smooth rear body License plate lamp RH (With step bumper) License plate lamp LH (With step bumper) except for Europe, Australia and China) except for Europe, Australia and China) BR C_2 Rear combination lamp LH Rear combination lamp RH ST T5) 7 RS (J (T12) BT 70 C7 Tail harness HA GY/2 GY/2 GY/2 GY/2 GY/2 SB/8 B/2 W/6 9/M 8/M ΕL T120 F (∞

[DX

Front Door Harness (LH side)

LHD MODELS

D1) W/20 : To **M3 D9** BR/3 : Door mirror defogger (With power window for Europe) W/12 : To M4 (With power window) (D10) SB/4 : Door lock actuator (With multi-remote control system) **D3**) BR/2 **(D11)** GY/3 : Door mirror actuator (With power door mirror : Front speaker **D4** GY/5 Door mirror actuator (With power door for the Middle East) mirror except for the Middle East) **D12** SB/6 : Power window regulator (With power window with D5) W/16 : Power window main switch interruption detection function) : Power window main switch (With power window with : Power window regulator (With power **D13** W/3 window without interruption detection interruption detection function) function) D14) W/10 : Door mirror remote control switch D8 GY/2 : Lock knob switch (With power door lock without multi-remote control system) D9 D4 (D13) D5 D12 D8 (D10) D3 HEL811B

RHD MODELS

: To **M49 D31** W/20 To (M50) (With power window) (D32) W/6 **D33** BR/2 : Front speaker **D34**) GY/5 : Door mirror actuator (With power door mirror) (D35) : Power window sub-switch (With power window) (D37) B/2 : Power window regulator (With power window) SB/4 (D38) : Door lock actuator (With power door lock) : Door mirror defogger (With power door mirror) (D39 D37 D38 D33 HEL885B

Front Door Harness (RH side)

LHD MODELS

D31 W/20 : To **M49**

D32 W/6 : To M50 (With power window)

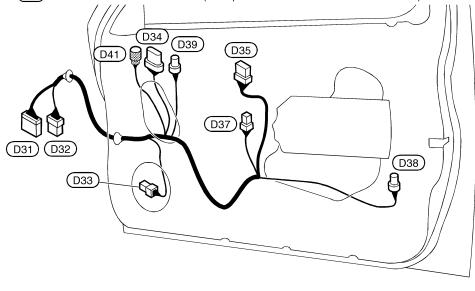
D33) BR/2 : Front speaker

GY/5 : Door mirror actuator (With power door mirror except for the Middle East)

D35 W/8 : Power window sub-switch (With power window)
D37 B/2 : Power window regulator (With power window)
D38 SB/4 : Door lock actuator (With power door lock)

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

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



HEL812B

GI

MA

LC

FE

GL

MIT

AT

TF

PD

FA

RA

BR

ST

RS

BT

RHD MODELS

D1 W/20 : To **M3**

W/12: To M4 (With power window)

D3 BR/2 : 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

(With power window for Europe)

(D10) SB/4 : Door lock actuator

(With multi-remote control system)

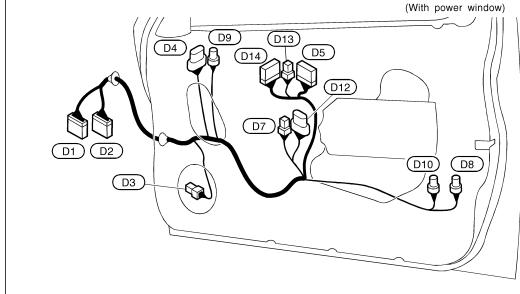
D12 SB/6 : Power window regulator

(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



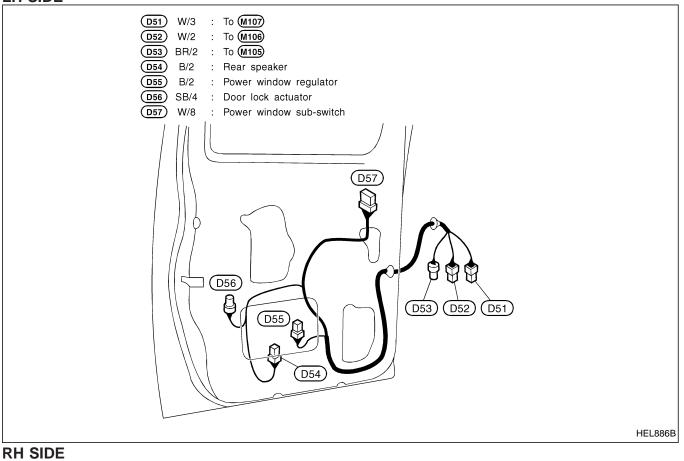
EL

HA

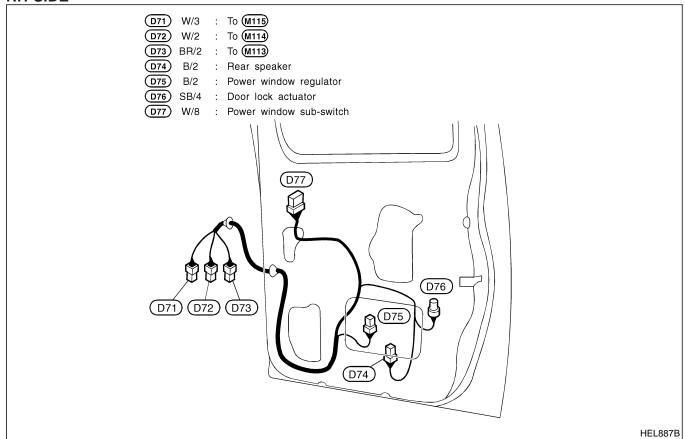
HEL884B

LH SIDE

Rear Door Harness







WIRING DIAGRAM CODES (CELL CODES)

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

G[

MA

EM

LC

EC

FE

GL

MT

AT

TF

PD

FA

RA

BR

ST

RS

BT

HA

EL

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

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 A/C, M HA Autor Conditioner A/C, M HA Manual Air Conditioner A/C, M HA Manual Air Conditioner A/C, M Ha Altor Conditioner A/C, M HA Autor Conditioner A/C, M HA Auto	Code	Section	Wiring Diagram Name
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 AT 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 EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC Fuel Cut Solenoid Valve FICD EC IACV-FICD Solenoid Valve FICD EC Fuel Pump Control Module	AAC/V	EC	IACV-AAC Valve
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 AT 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 EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC Fuel Cut Solenoid Valve FIPOT EC Fuel Pump Control Module	ABS	BR	Anti-lock Brake System
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 AT 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 Power Door Lock ECMR EC ECM Relay ECTS EC EGRC — Solenoid Valve EGYC/V EC EGR Volume Control Valve EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	A/C, A	HA	Auto Air Conditioner
A/CCOT EC Air Conditioner Control AIRREG EC IACV-Air Regulator APS EC Accelerator Position Sensor AT/IND EL A/T Indicator AUDIO EL Back-up Lamp BA/FTS AT 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 Power Door Lock ECMRLY EC ECM Relay ECTS EC EGRC — Solenoid Valve EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	A/C, M	HA	Manual Air Conditioner
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 AT 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 EGR Coolant Temperature Sensor EGRC/V EC EGR Volume Control Valve EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC IACV-FICD Solenoid Valve FIPOT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	ACC/SW	EC	Accelerator Switch
APS EC Accelerator Position Sensor AT/IND EL A/T Indicator AUDIO EL Audio BACK/L EL Back-up Lamp BA/FTS AT 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 Power Door Lock DTRL EL Sensor ECMRLY EC ECM Relay ECTS EC EGRC — Solenoid Valve EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC Fuel Cut Solenoid Valve FIPOT EC Fuel Pump Control Module	A/CCOT	EC	Air Conditioner Control
AT/IND EL A/T Indicator AUDIO EL Audio BACK/L EL Back-up Lamp BA/FTS AT 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 Power Door Lock DTRL EL Bengine Coolant Temperature Sensor EGRC/V EC EGRC — Solenoid Valve EGYC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC Fuel Cut Solenoid Valve FIPOT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	AIRREG	EC	IACV-Air Regulator
AUDIO EL Audio BACK/L EL Back-up Lamp BA/FTS AT 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 EN Relay ECTS EC EGRC — Solenoid Valve EGYC/V EC EGRC — Solenoid Valve ENGSS AT Engine Speed Signal FCUT EC Fuel Cut Solenoid Valve FICD EC IACV-FICD Solenoid Valve FICD EC ISC-FI Pot FPCM EC Fuel Pump Control Module	APS	EC	Accelerator Position Sensor
BACK/L BA/FTS AT 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 FIED FCM EC Fuel Pump Control Module	AT/IND	EL	A/T Indicator
BA/FTS AT 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 EGRC — Solenoid Valve EGVC/V EC EGRC — Solenoid Valve EGVC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC IACV-FICD Solenoid Valve FICD EC IACV-FICD Solenoid Valve FICD EC ISC-FI Pot FPCM EC Fuel Pump Control Module	AUDIO	EL	Audio
BA/FTS AI 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 EGRC — Solenoid Valve EGVC/V EC EGR Volume Control Valve ENGSS AT Engine Speed Signal FCUT EC IACV-FICD Solenoid Valve FICD EC IACV-FICD Solenoid Valve FICD EC ISC-FI Pot FPCM EC Fuel Pump Control Module	BACK/L	EL	Back-up Lamp
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 EGR Volume Control 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 FICD EC ISC-FI Pot FPCM EC Fuel Pump Control Module	BA/FTS	АТ	·
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 EGR 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 FICD EC ISC-FI Pot FPCM EC Fuel Pump Control Module	BOOST	EC	Turbocharger Boost Sensor
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 Fuel Pump Control Module	BRK/SW	EC	Brake Switch Signal
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	CHARGE	EL	Charging System
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	CHIME	EL	Warning Chime
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 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	CHOKE	EC	Automatic Choke
CLOCK CMPS EC Camshaft Position Sensor COOL/F LC, EC Cooling Fan Control 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 FUEl Pump Control Module	CIGAR	EL	Cigarette Lighter
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	CKPS	EC	Crankshaft 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 Fuel Pump Control Module	CLOCK	EL	Clock
DEF EL Rear Window Defogger and Mirror Defogger DIMDIP EL Headlamp — With Dim-dip Lamp System D/LOCK EL Power Door Lock 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 FUEI Cut Solenoid Valve FICD EC IACV-FICD Solenoid Valve FIPOT EC FUEI Pump Control Module	CMPS	EC	Camshaft Position Sensor
DEF EL 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 Fuel Pump Control Module	COOL/F	LC, EC	Cooling Fan Control
DINDIP EL 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 Fuel Pump Control Module	DEF	EL	
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 FUEL Pump Control Module	DIMDIP	EL	
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	D/LOCK	EL	Power Door Lock
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	DTRL	EL	1
ECTS EC 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	ECMRLY	EC	ECM Relay
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	ECTS	EC	
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	EGRC/V	EC	EGRC — Solenoid Valve
FCUT EC Fuel Cut Solenoid Valve FICD EC IACV-FICD Solenoid Valve FIPOT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	EGVC/V	EC	EGR Volume Control Valve
FICD EC IACV-FICD Solenoid Valve FIPOT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	ENGSS	AT	Engine Speed Signal
FIPOT EC ISC-FI Pot FPCM EC Fuel Pump Control Module	FCUT	EC	Fuel Cut Solenoid Valve
FPCM EC Fuel Pump Control Module	FICD	EC	IACV-FICD Solenoid Valve
	FIPOT	EC	ISC-FI Pot
F/PUMP EC Fuel Pump	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	НА	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
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
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	AT	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	AT	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