Go to SUP9 Rev.2

ELECTRICAL SYSTEM

SECTION EL

MODIFICATION NOTICE:

- Wiring diagrams have been changed.
- Harness layouts have been changed.
- Fuel filler lid opener has been added.
- Multi-remote control system has been added.

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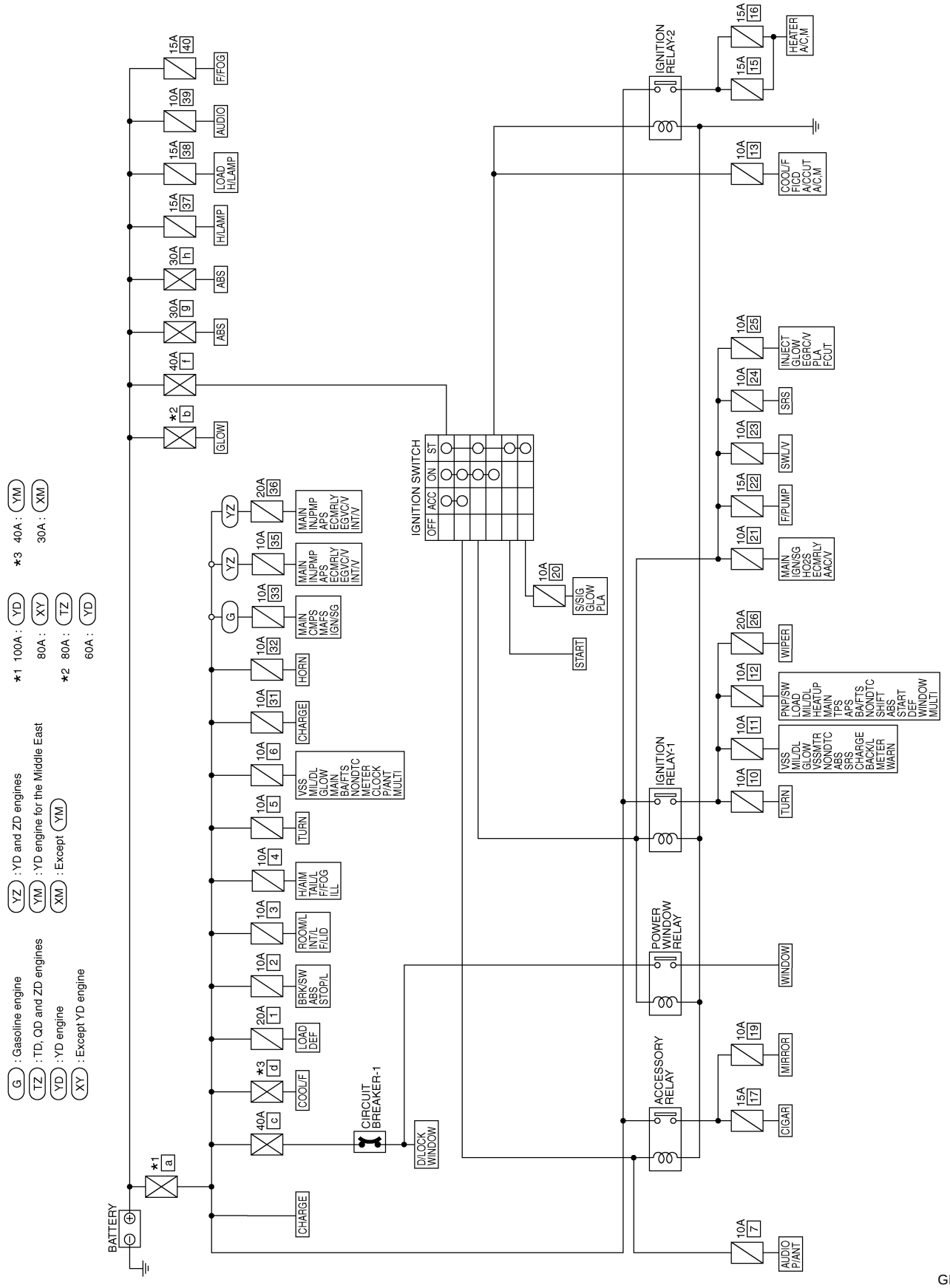
Schematic

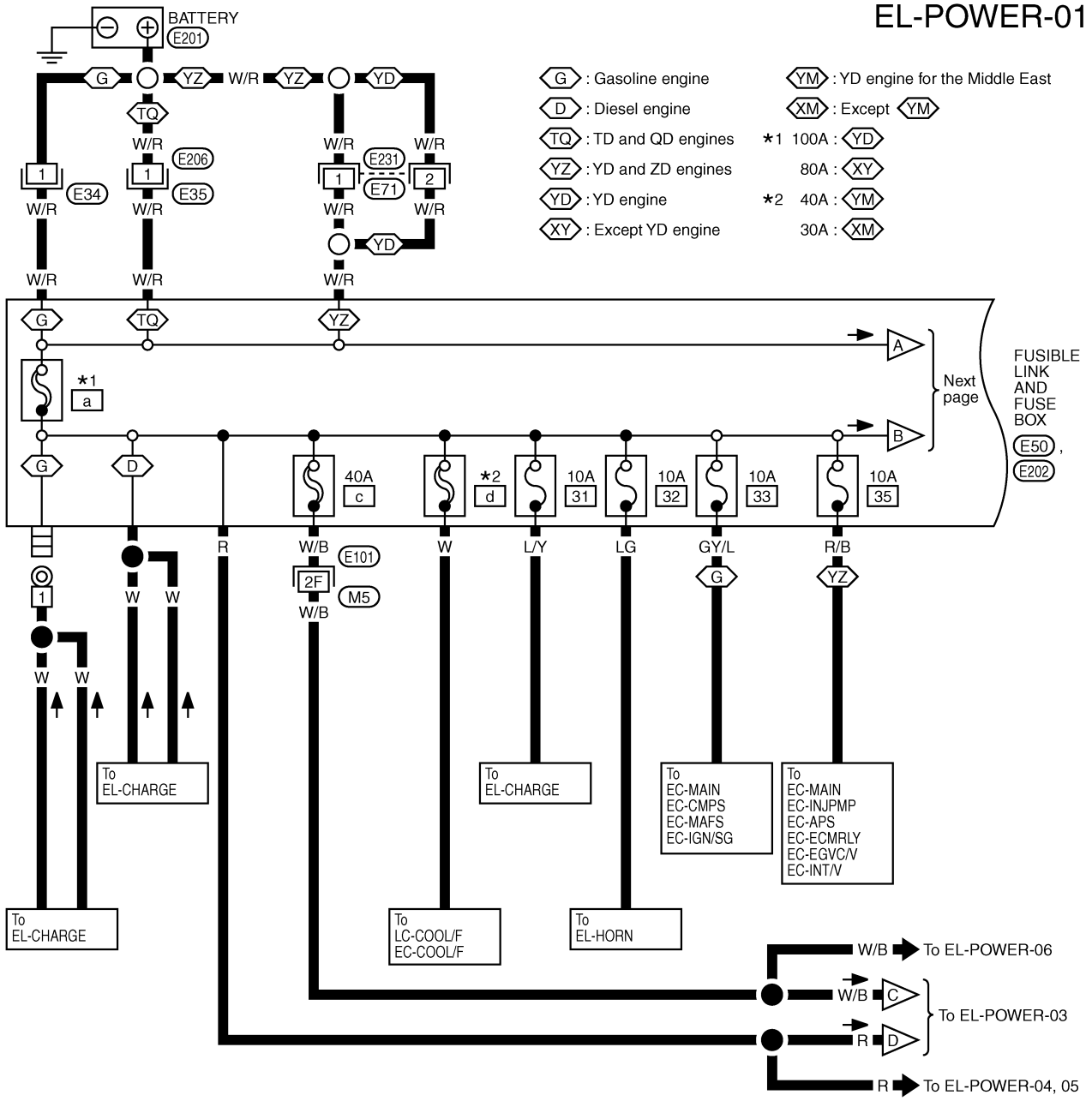


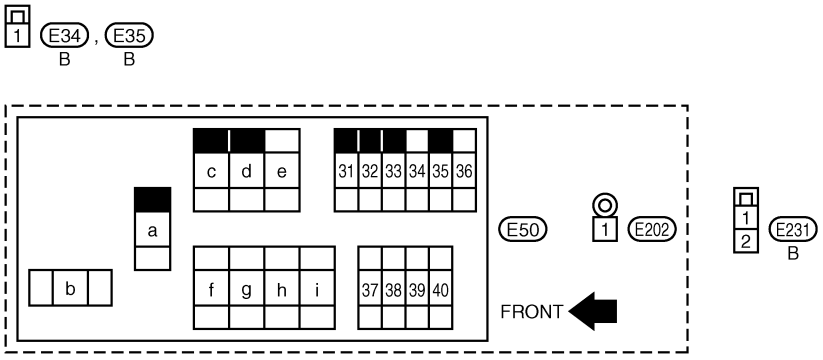
GEL103B

Wiring Diagram — POWER —

BATTERY POWER SUPPLY — IGNITION SWITCH IN ANY POSITION

EL-POWER-01





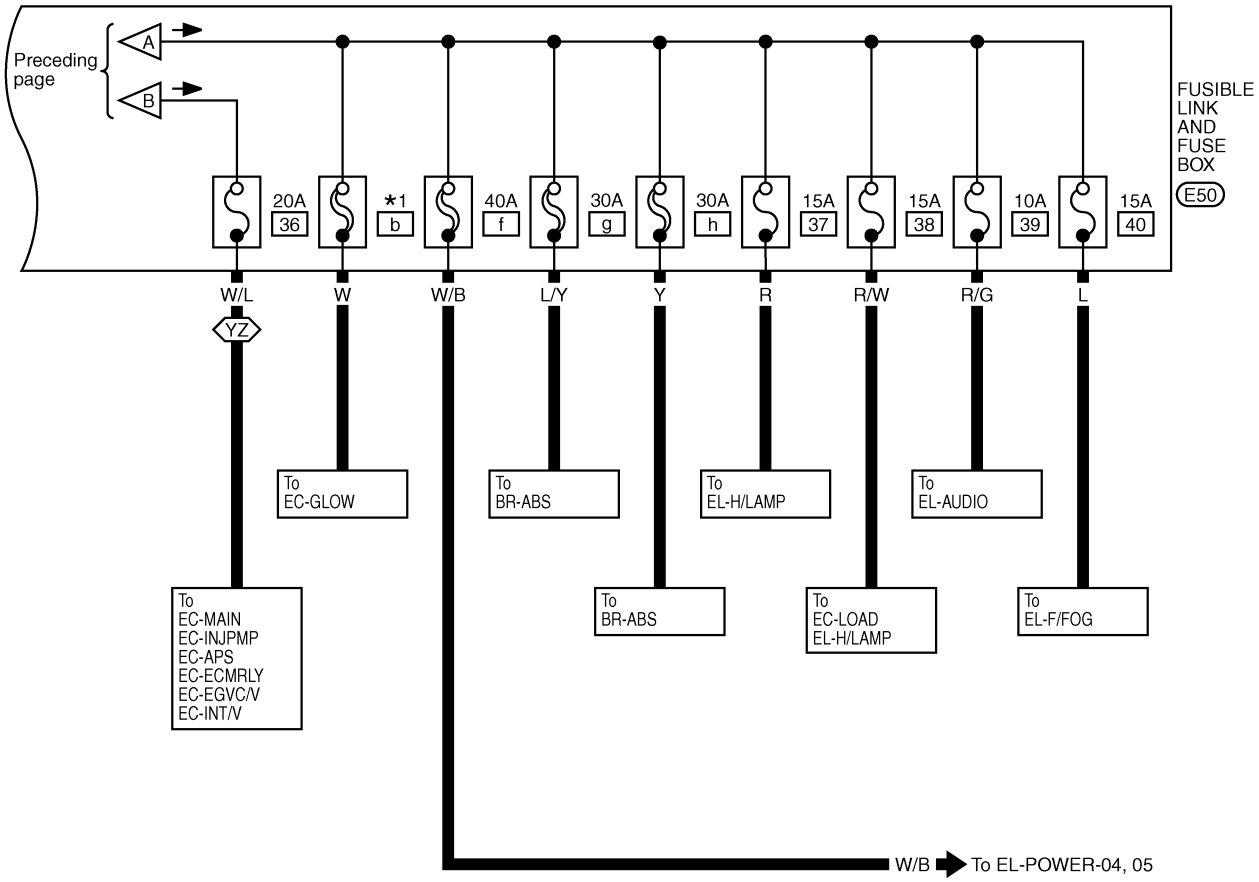
Refer to last page (Foldout page).
M5 , E101

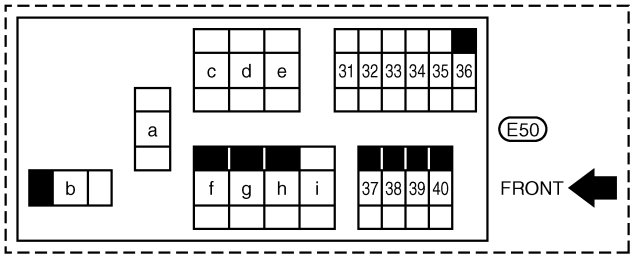
GEL104B

Wiring Diagram — POWER — (Cont'd)

EL-POWER-02

YZ : YD and ZD engines
YD : YD engine
TZ : TD, QD and ZD engines
*1 80A : TZ
60A : YD

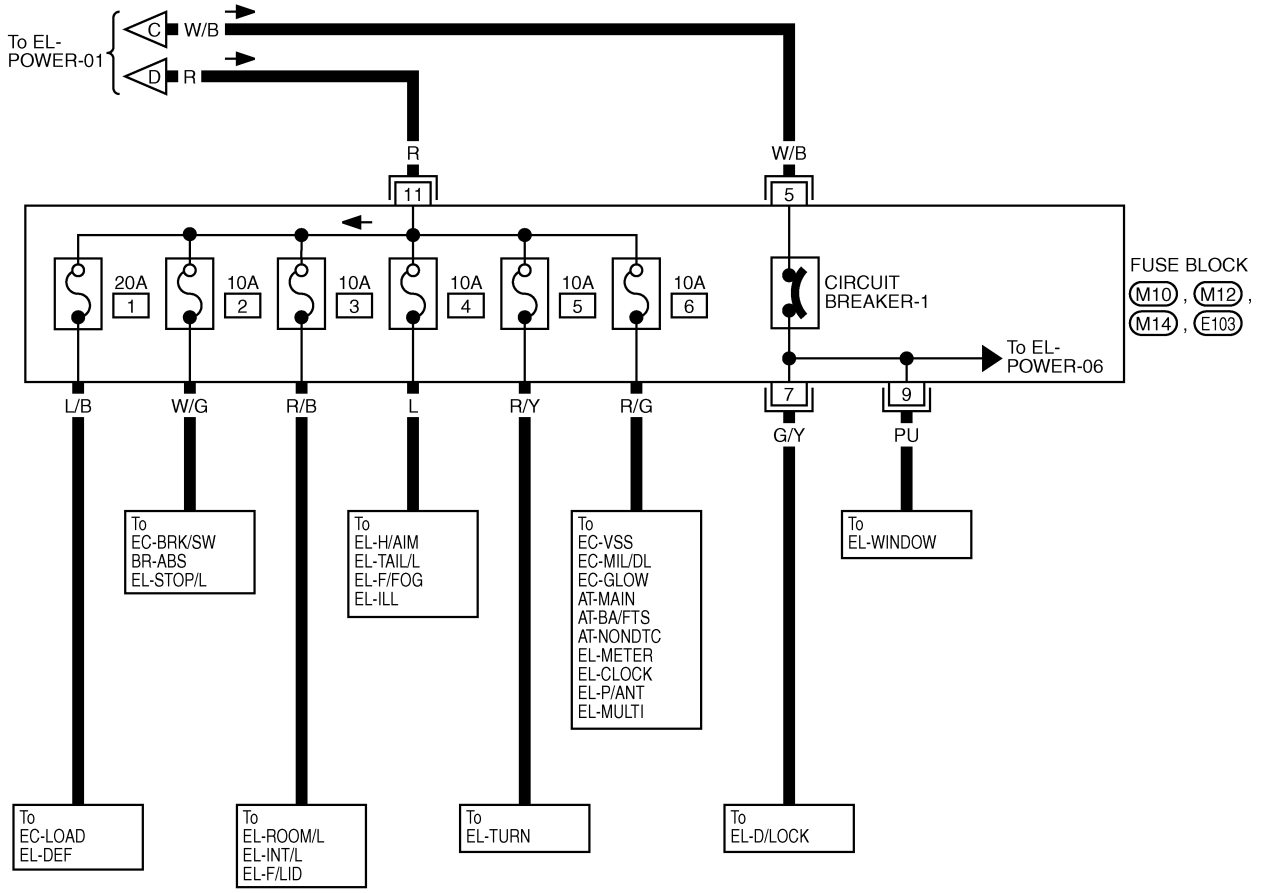


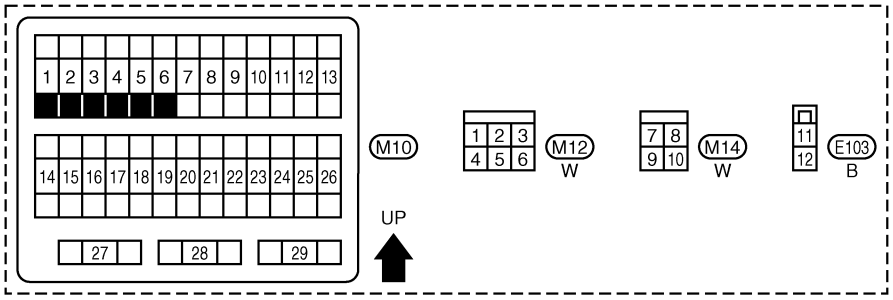


GEL105B

Wiring Diagram — POWER — (Cont'd)

EL-POWER-03



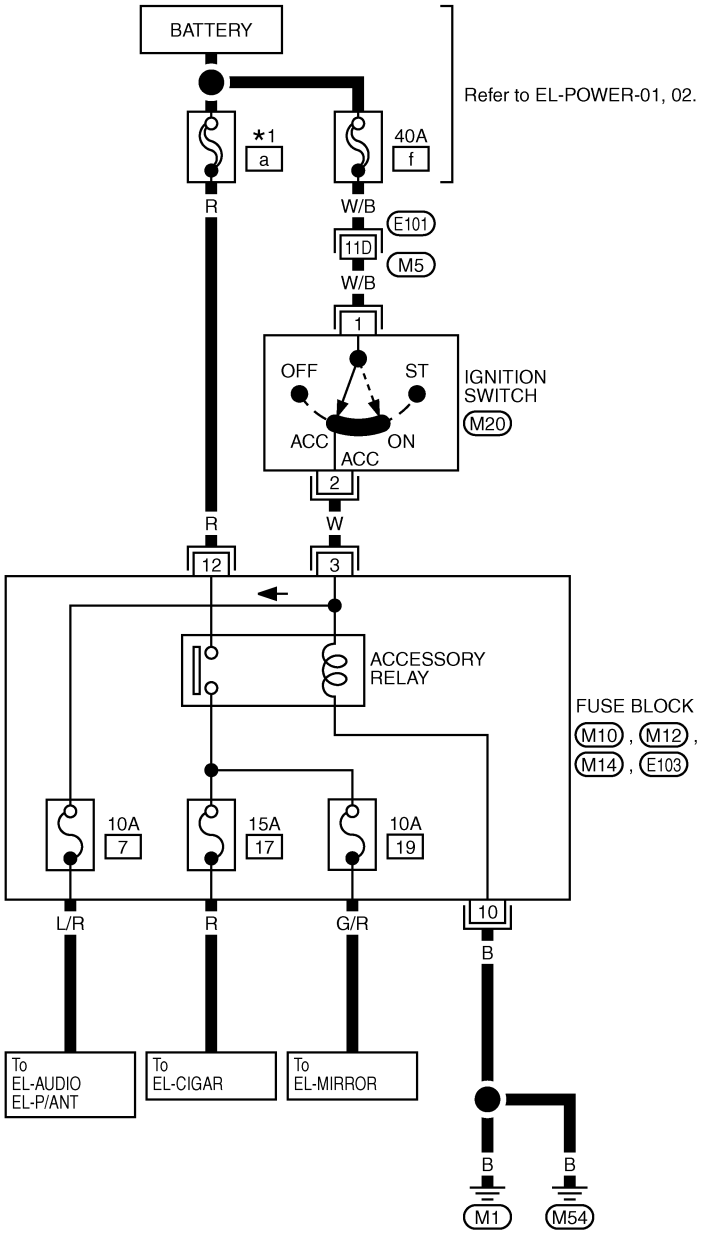


GEL106B

Wiring Diagram — POWER — (Cont'd)

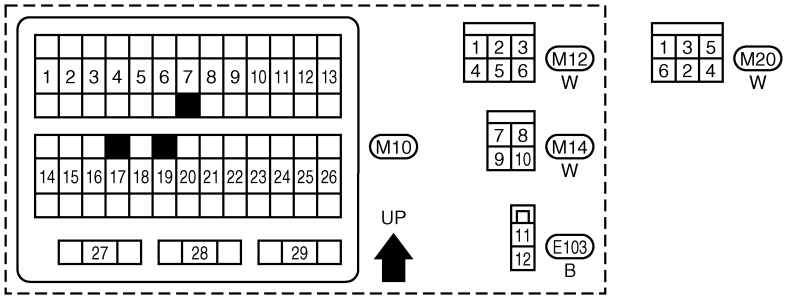
ACCESSORY POWER SUPPLY — IGNITION SW. IN "ACC" OR "ON"

EL-POWER-04



*1 100A : YD
80A : XY

YD : YD engine
XY : Except YD engine



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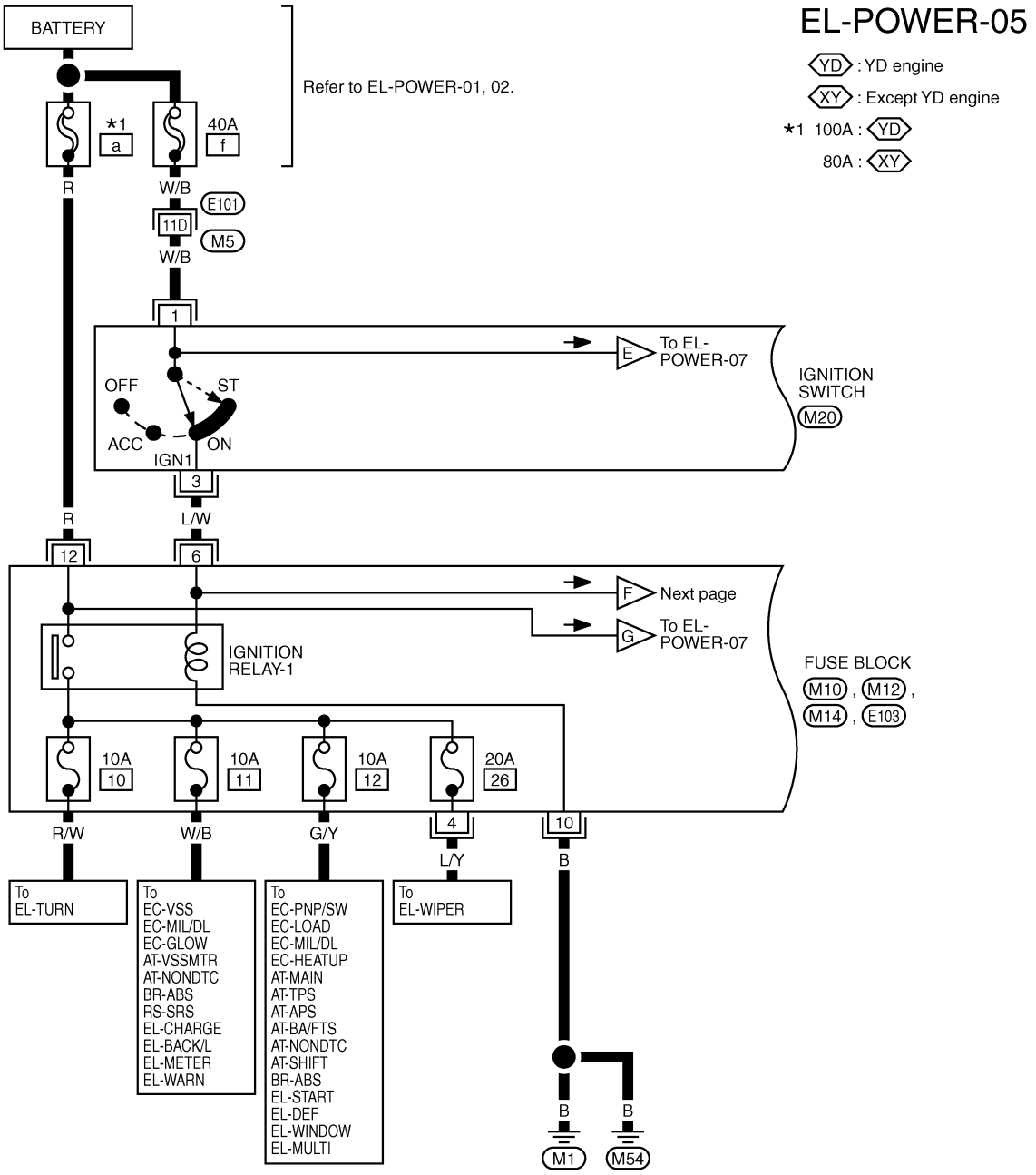
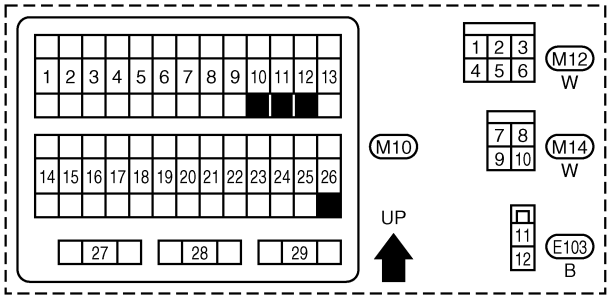
M5 , E101

GEL107B

Wiring Diagram — POWER — (Cont'd)

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





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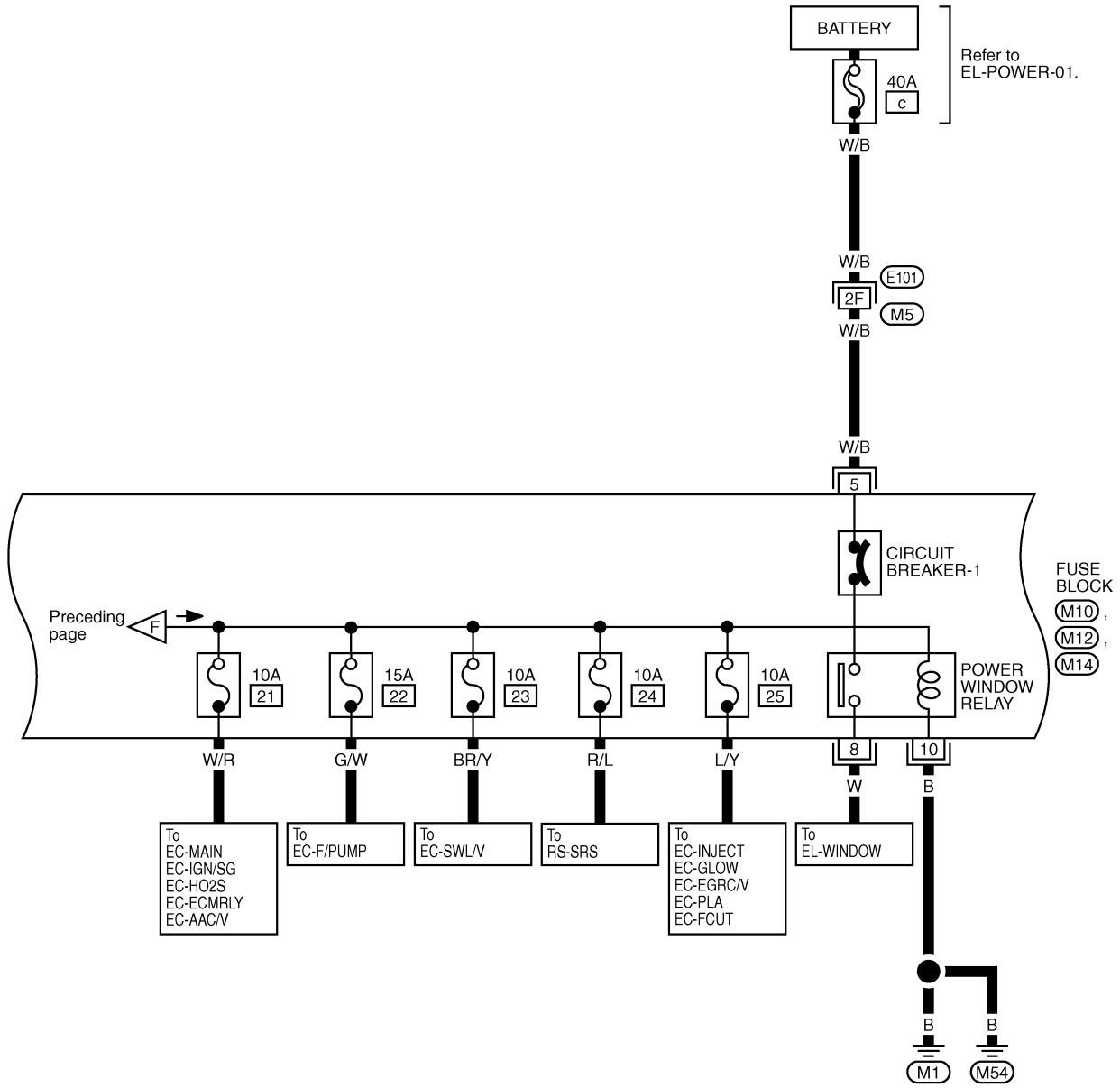
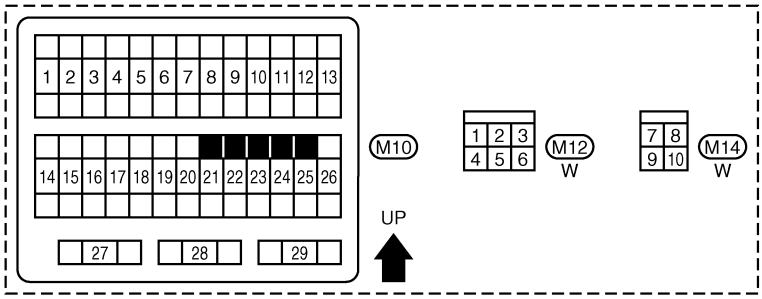
M5 , E101

GEL108B

Wiring Diagram — POWER — (Cont'd)

EL-POWER-06





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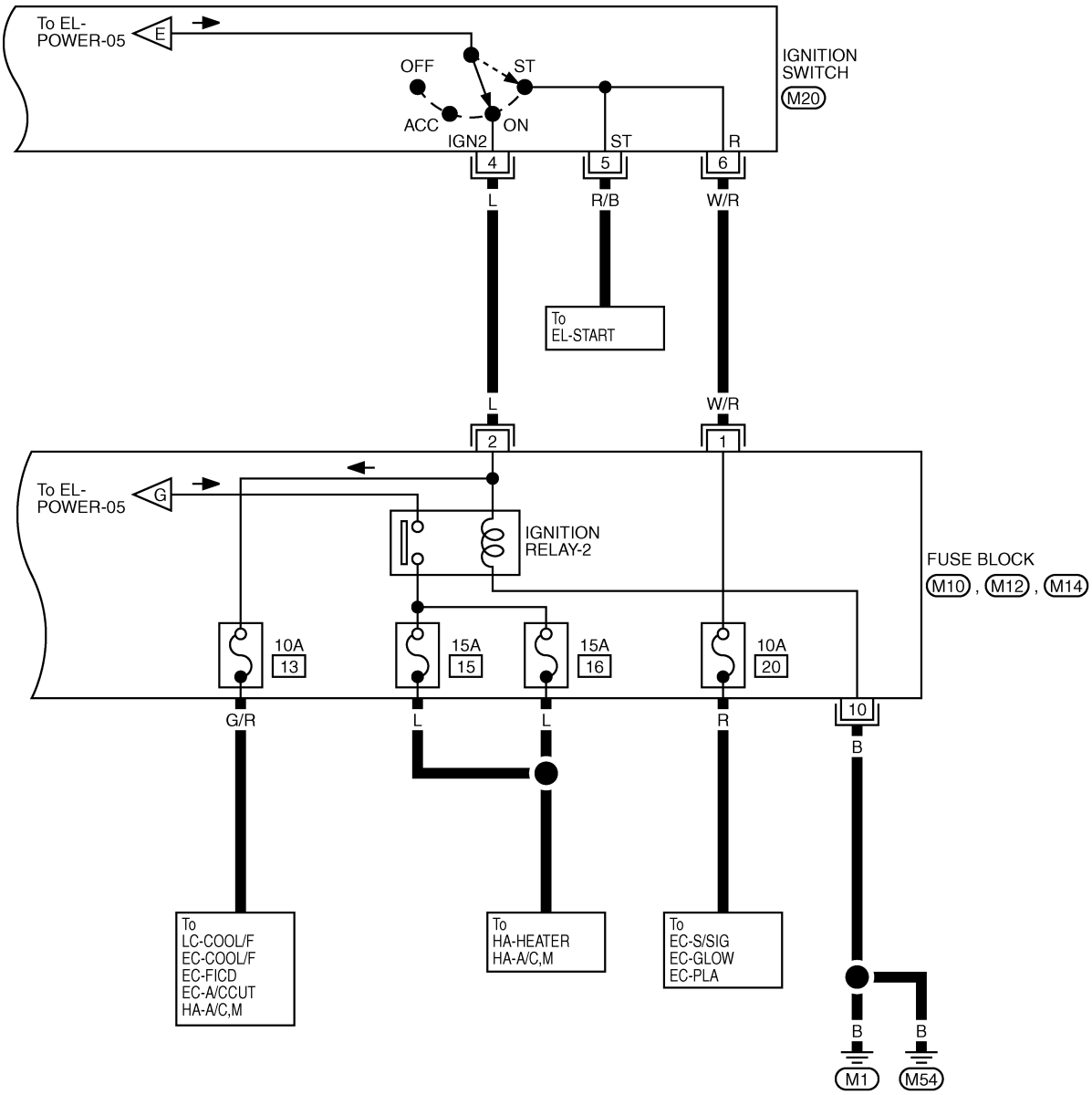
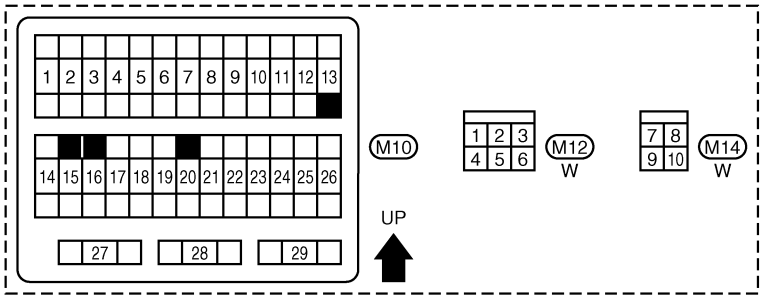
M5 , E101

GEL109B

Wiring Diagram — POWER — (Cont'd)

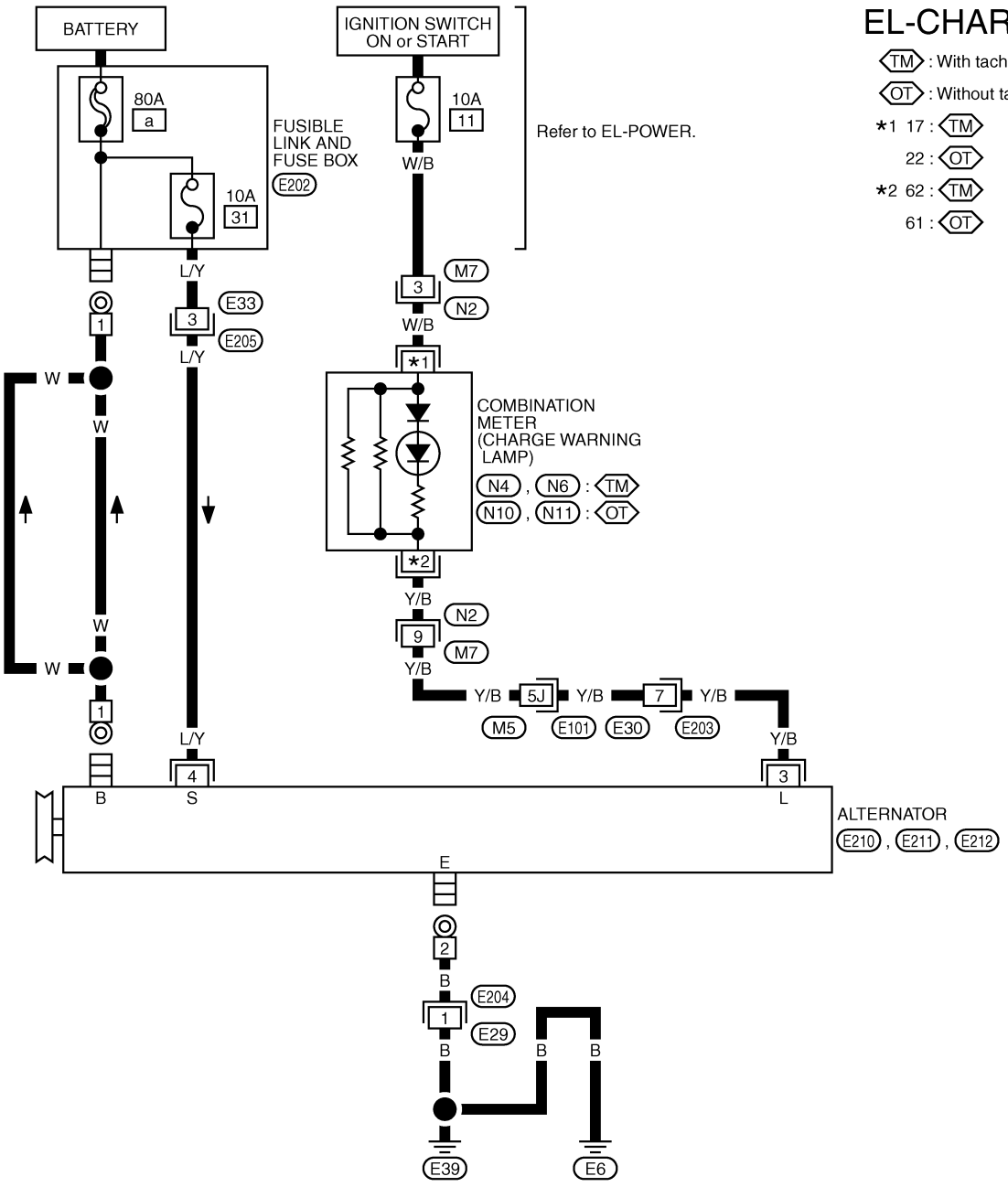
EL-POWER-07

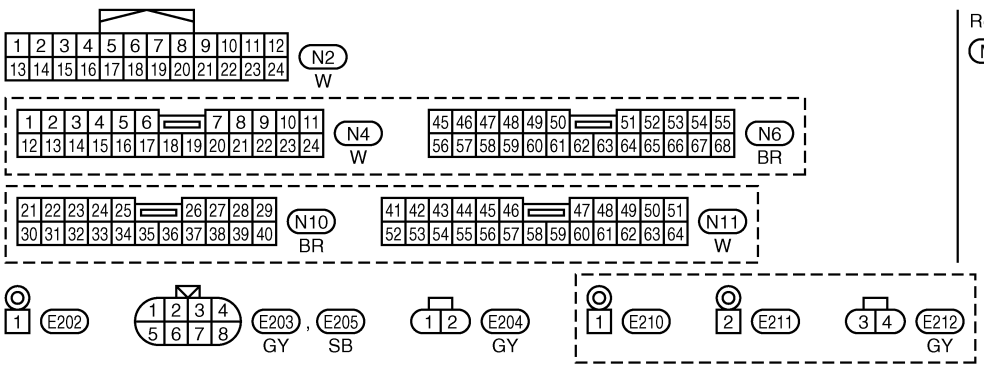




GEL110B

Wiring Diagram — CHARGE — (Gasoline engines)





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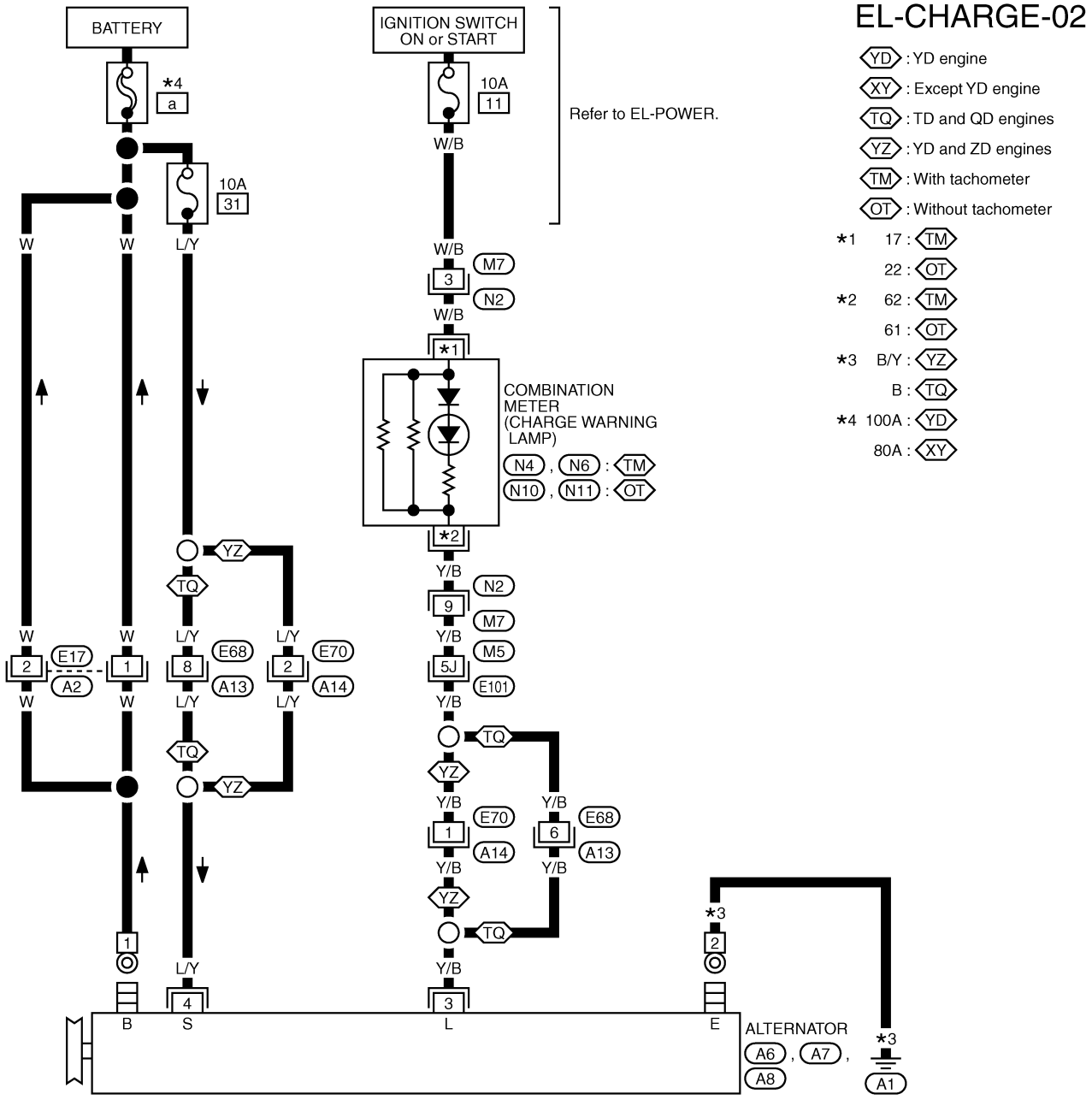
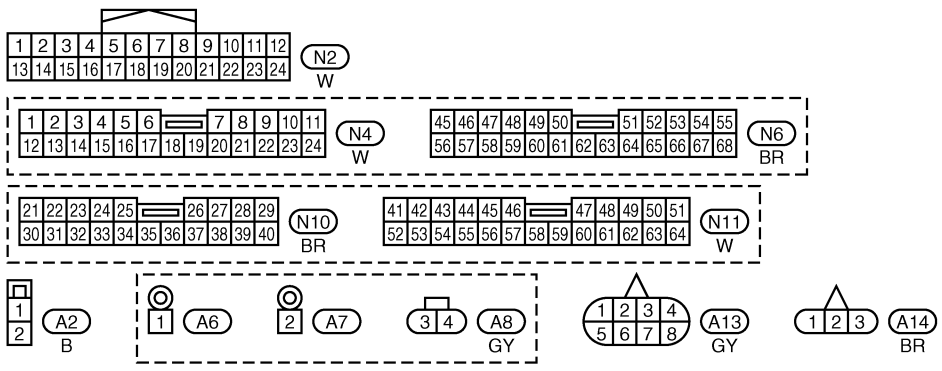
M5 , E101

GEL111B

Wiring Diagram — CHARGE —/Diesel Engine with M/T





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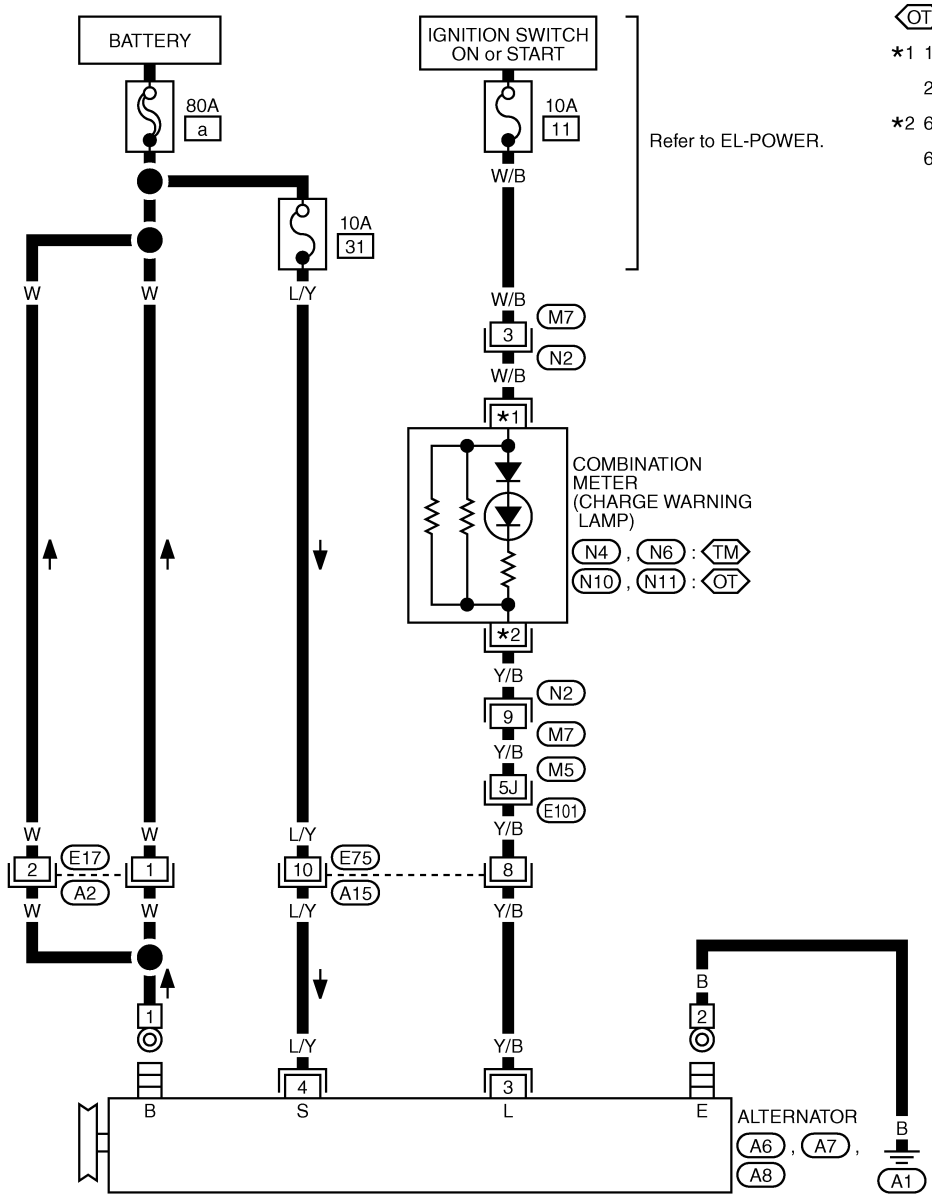
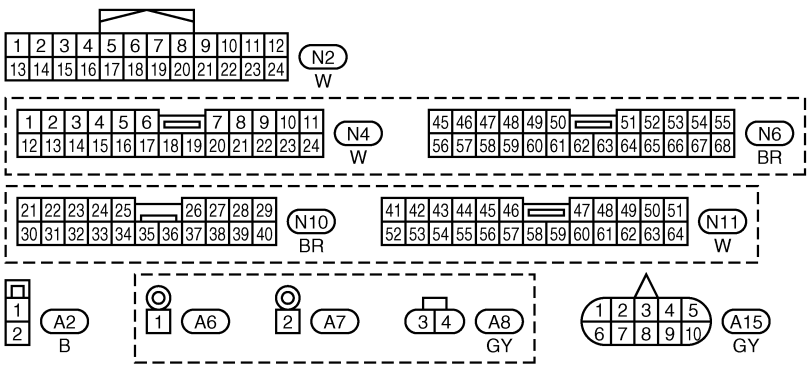
M5 , E101

GEL112B

Wiring Diagram — CHARGE —/Diesel Engine with A/T

EL-CHARGE-03





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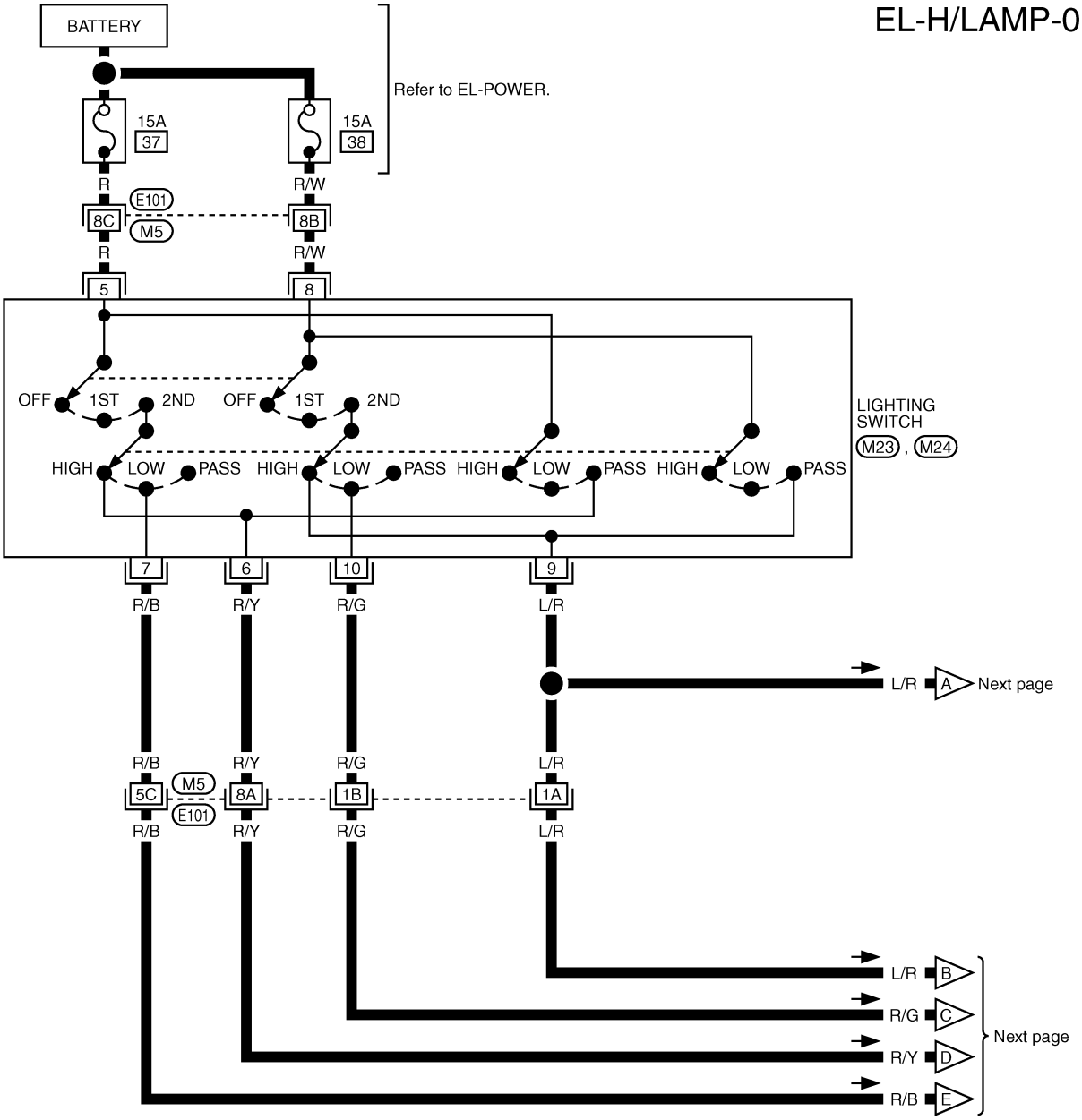
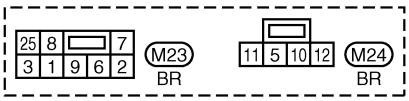
M5 , E101

GEL113B

Wiring Diagram — H/LAMP —/LHD Models

EL-H/LAMP-01





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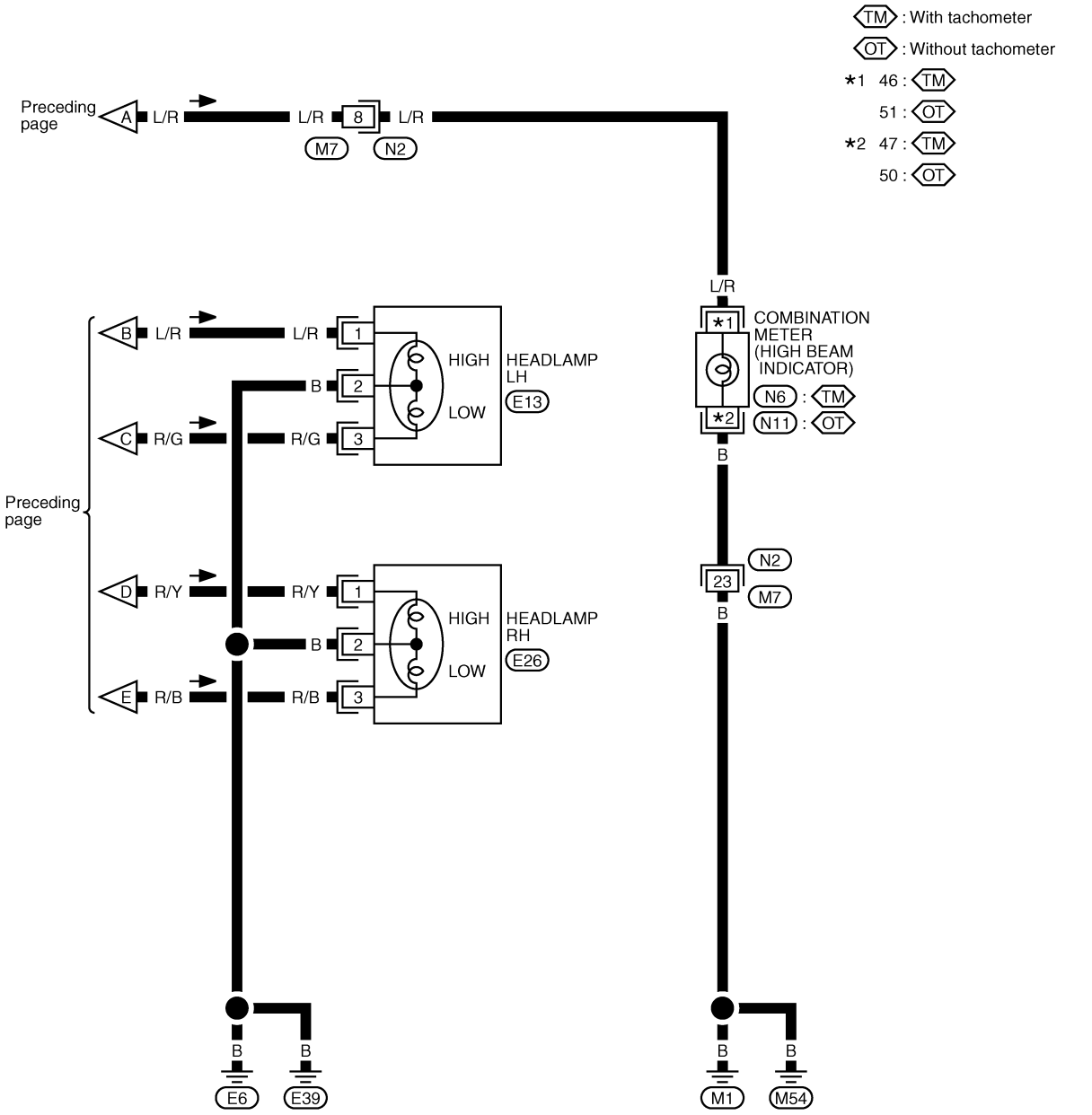
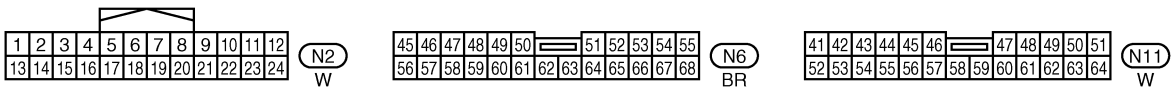
M5 , E101

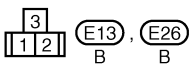
GEL239A

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

EL-H/LAMP-02



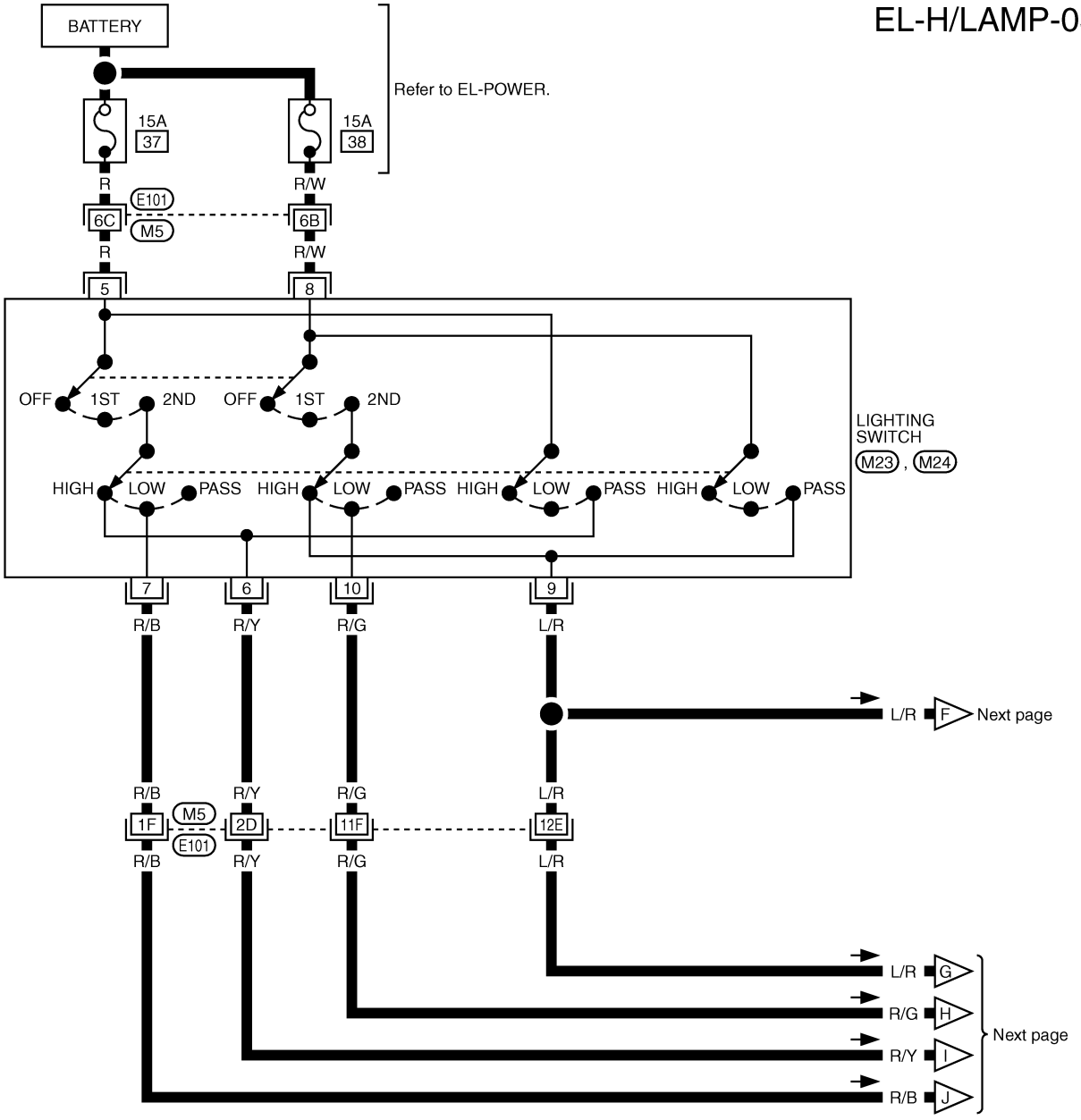


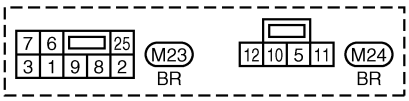


GEL114B

Wiring Diagram — H/LAMP —/RHD Models

EL-H/LAMP-03





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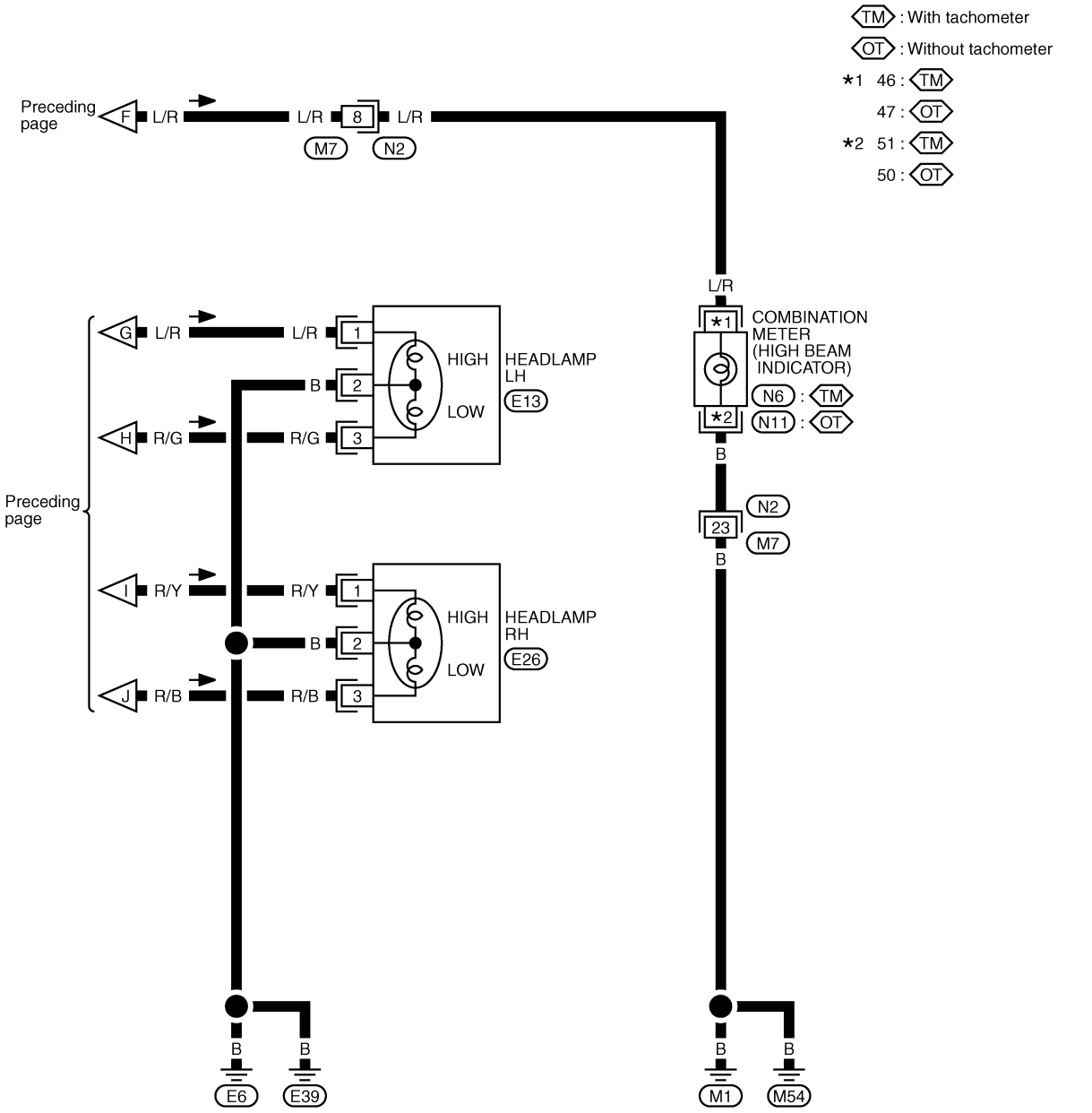
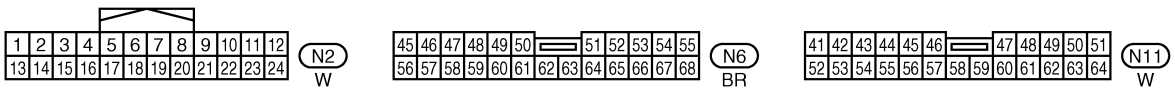
M5 , E101

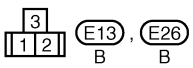
GEL369A

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

EL-H/LAMP-04

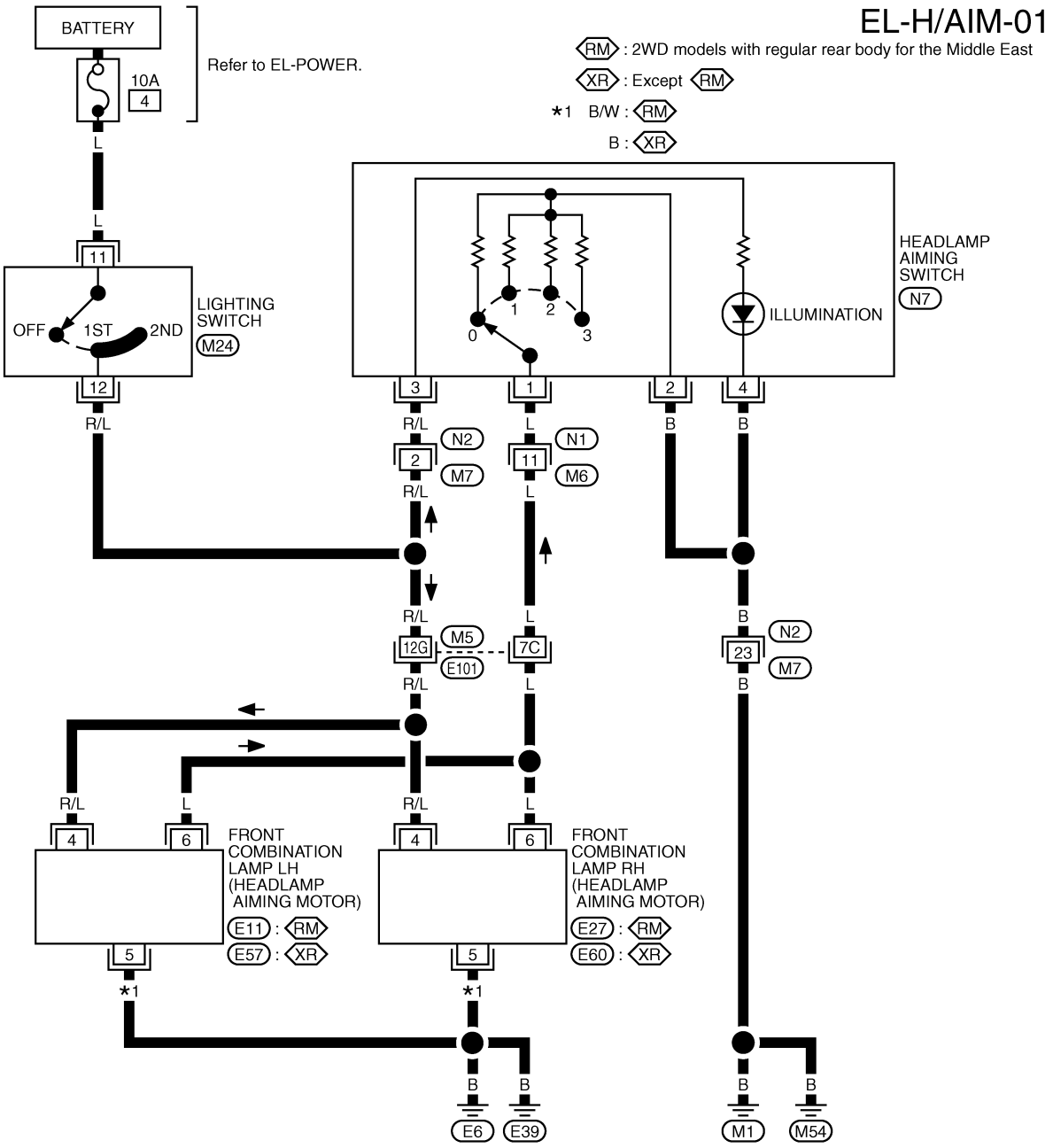


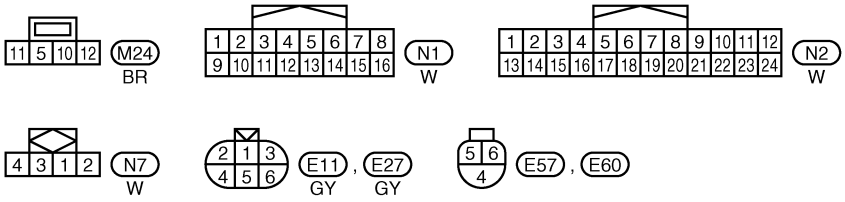




GEL115B

Wiring Diagram — H/AIM —





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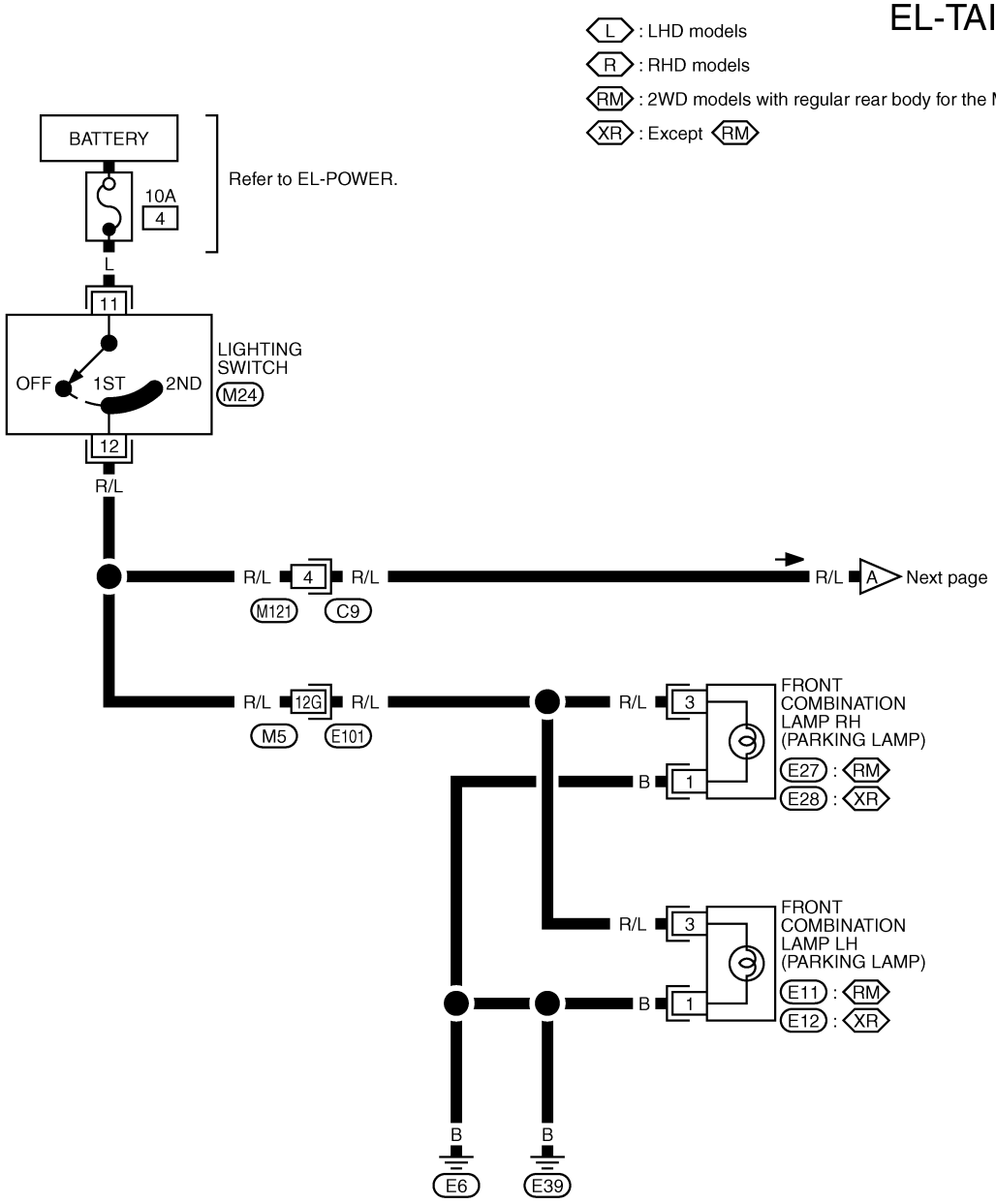
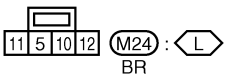
M5 , E101

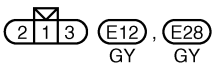
GEL116B

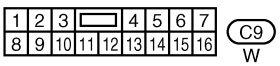
Wiring Diagram — TAIL/L —

EL-TAIL/L-01









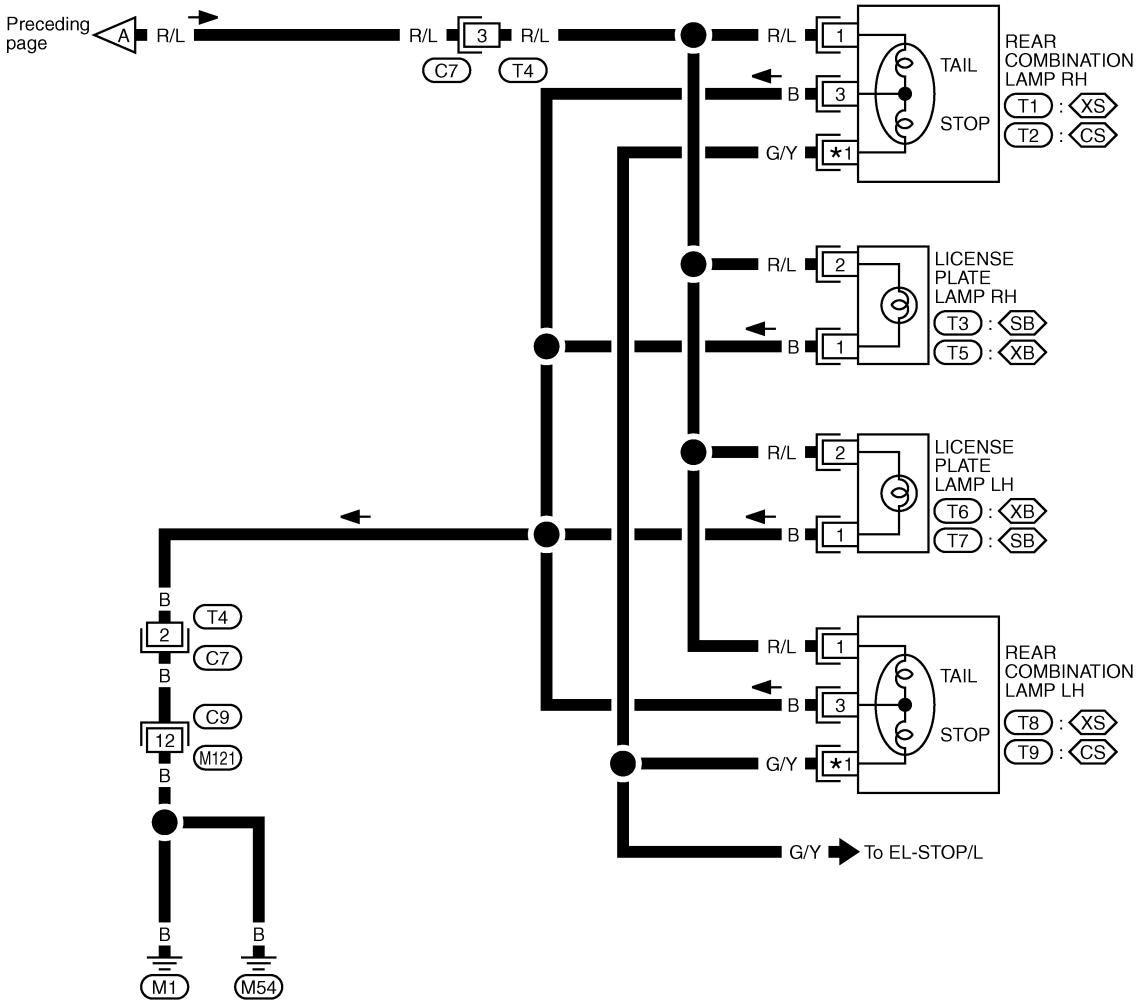
Refer to last page (Foldout page).
M5 , E101

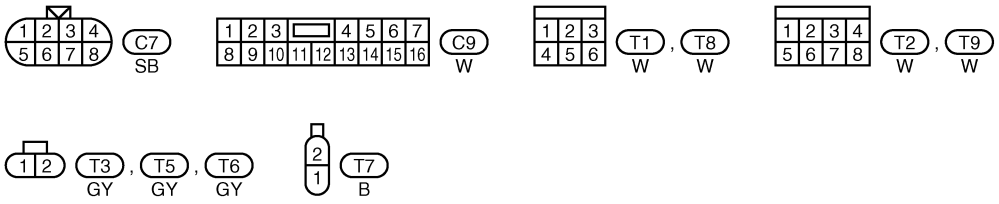
GEL117B

Wiring Diagram — TAIL/L — (Cont'd)

EL-TAIL/L-02

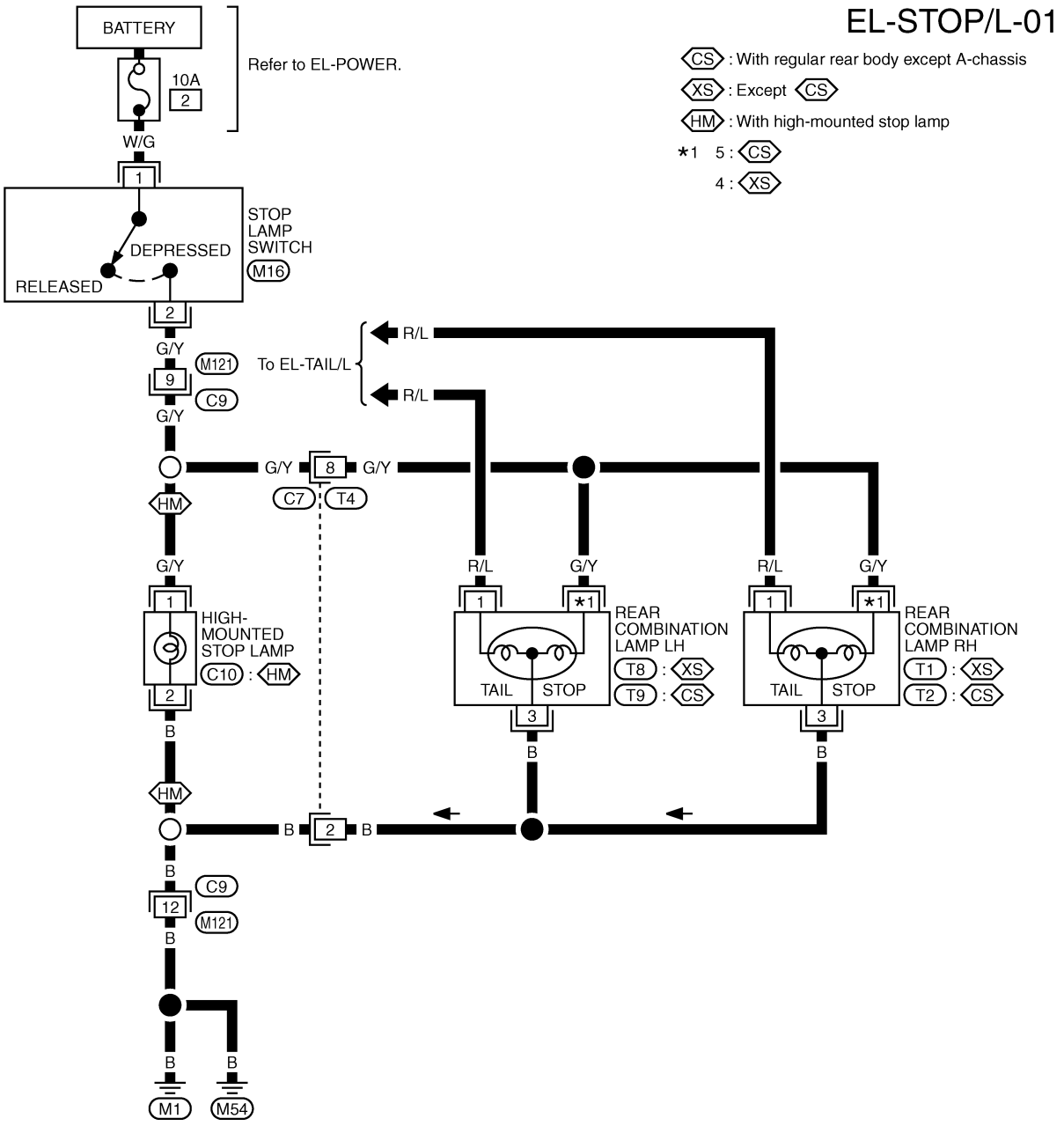
CS : With regular rear body except A-chassis
XS : Except CS
SB : Models with step bumper
XB : Except SB
*1 5 : CS
4 : XS

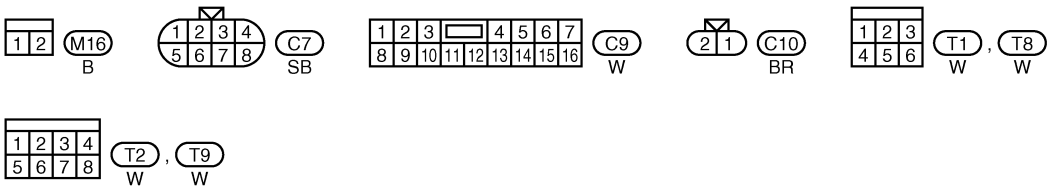




GEL118B

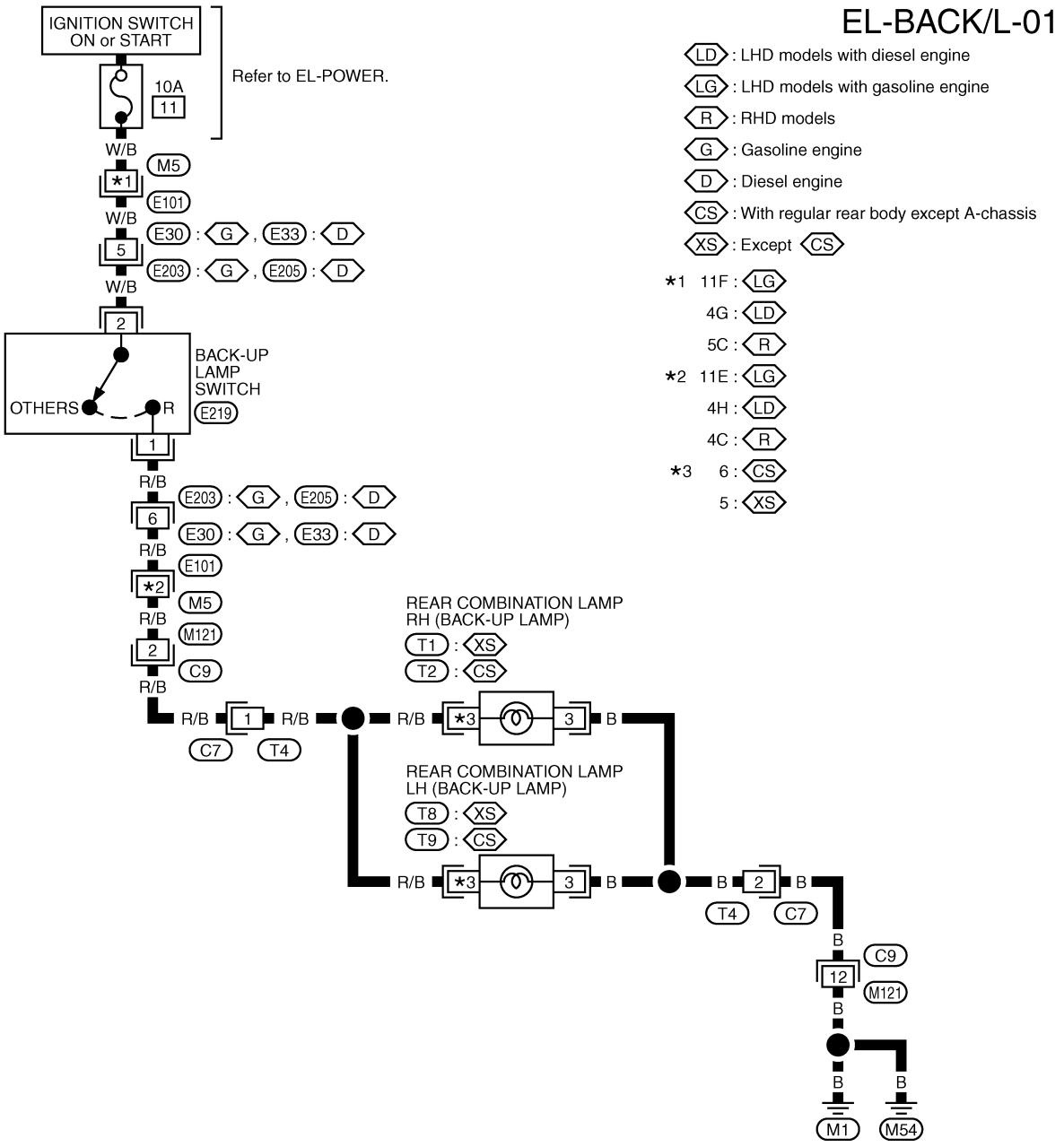
Wiring Diagram — STOP/L —





GEL119B

Wiring Diagram — BACK/L —/M/T Models



E203 GY , E205 SB , C7 SB

E219 GY

C9 W

T1 W , T8 W

T2 W , T9 W

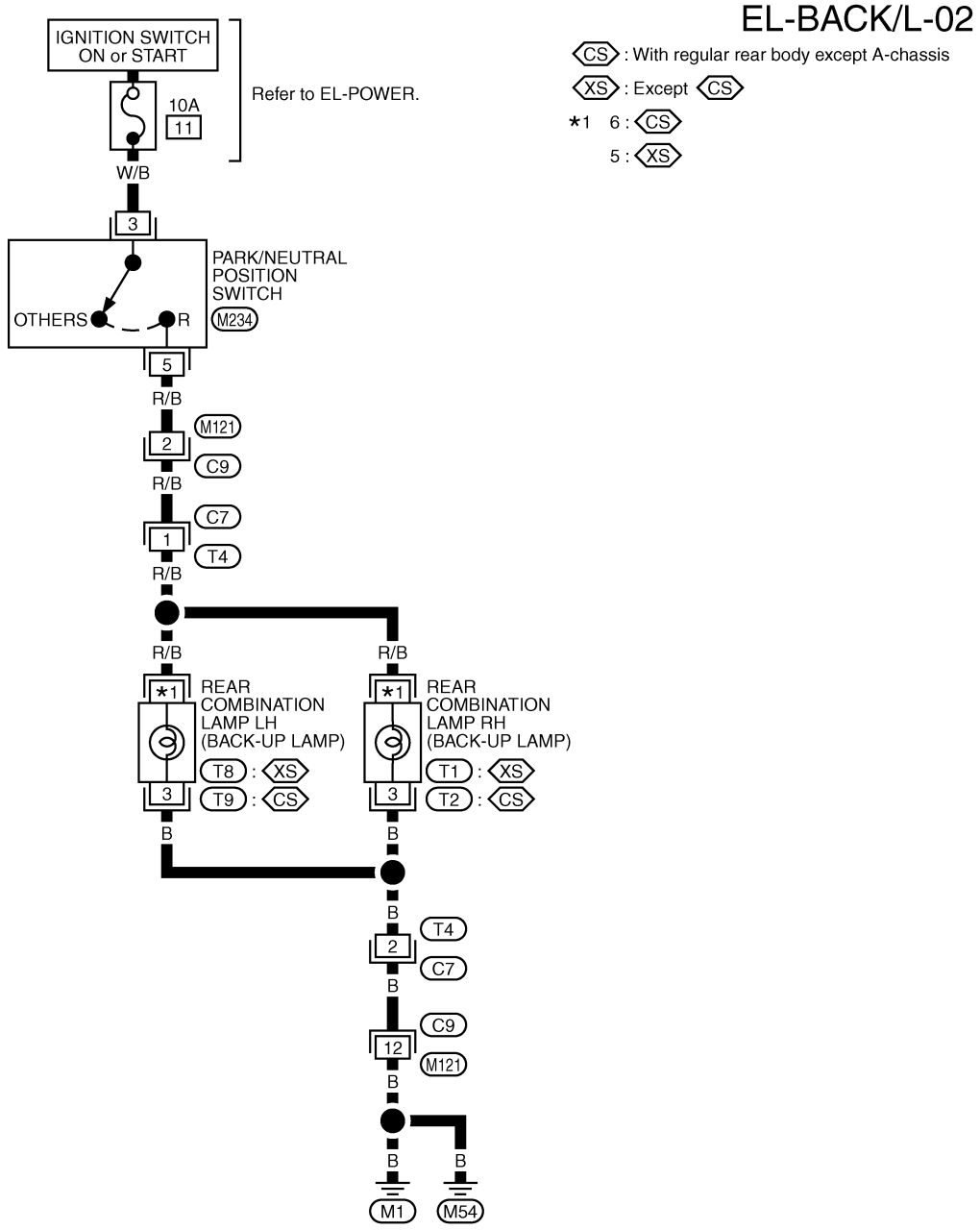
Refer to last page (Foldout page).

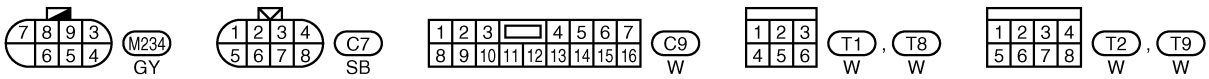
M5 , E101

GEL120B

Wiring Diagram — BACK/L —/A/T Models

EL-BACK/L-02

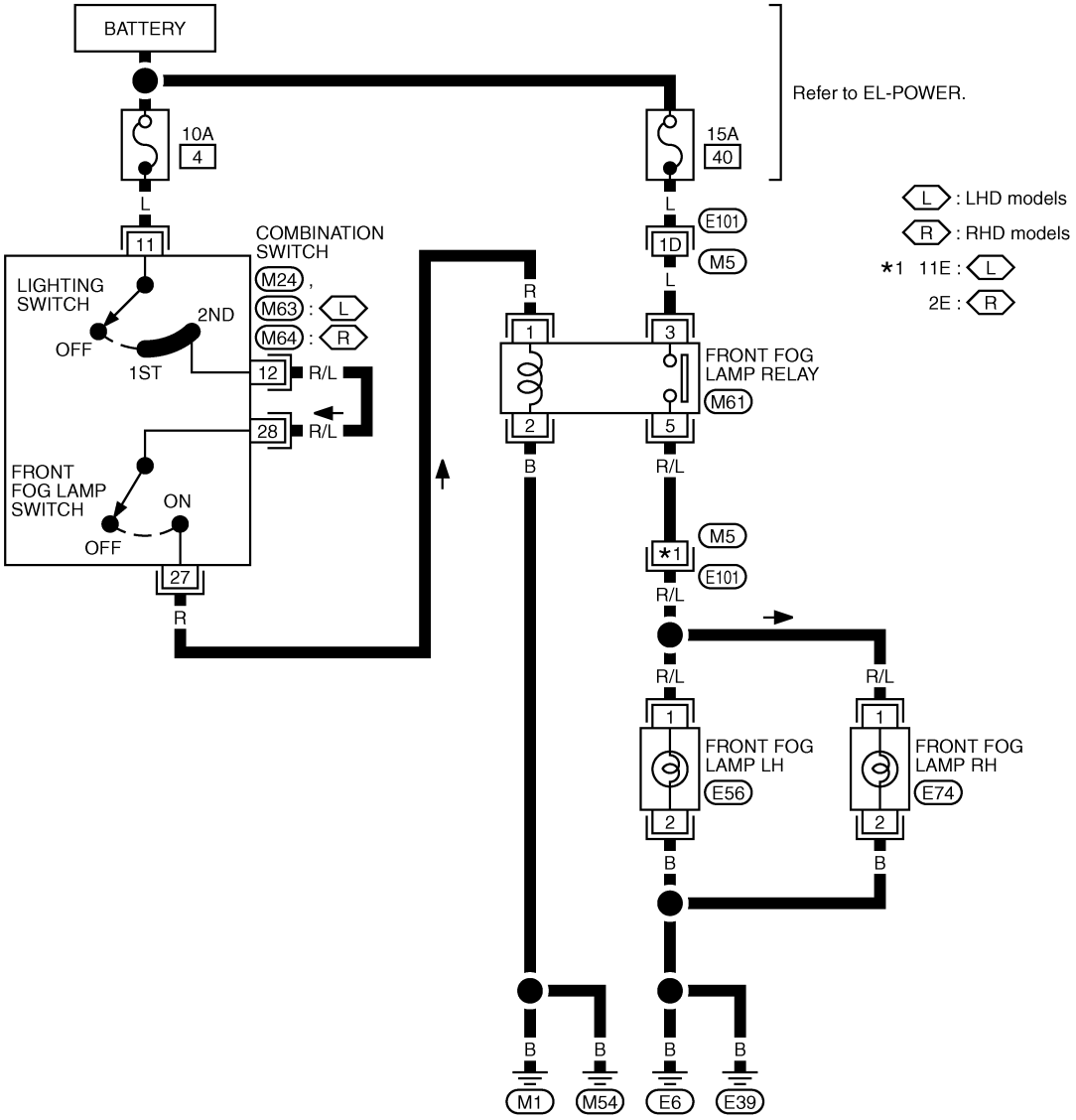


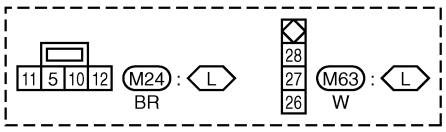


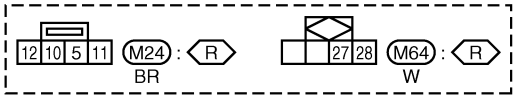
GEL121B

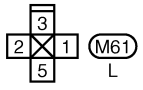
Wiring Diagram — F/FOG —

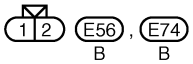
EL-F/FOG-01









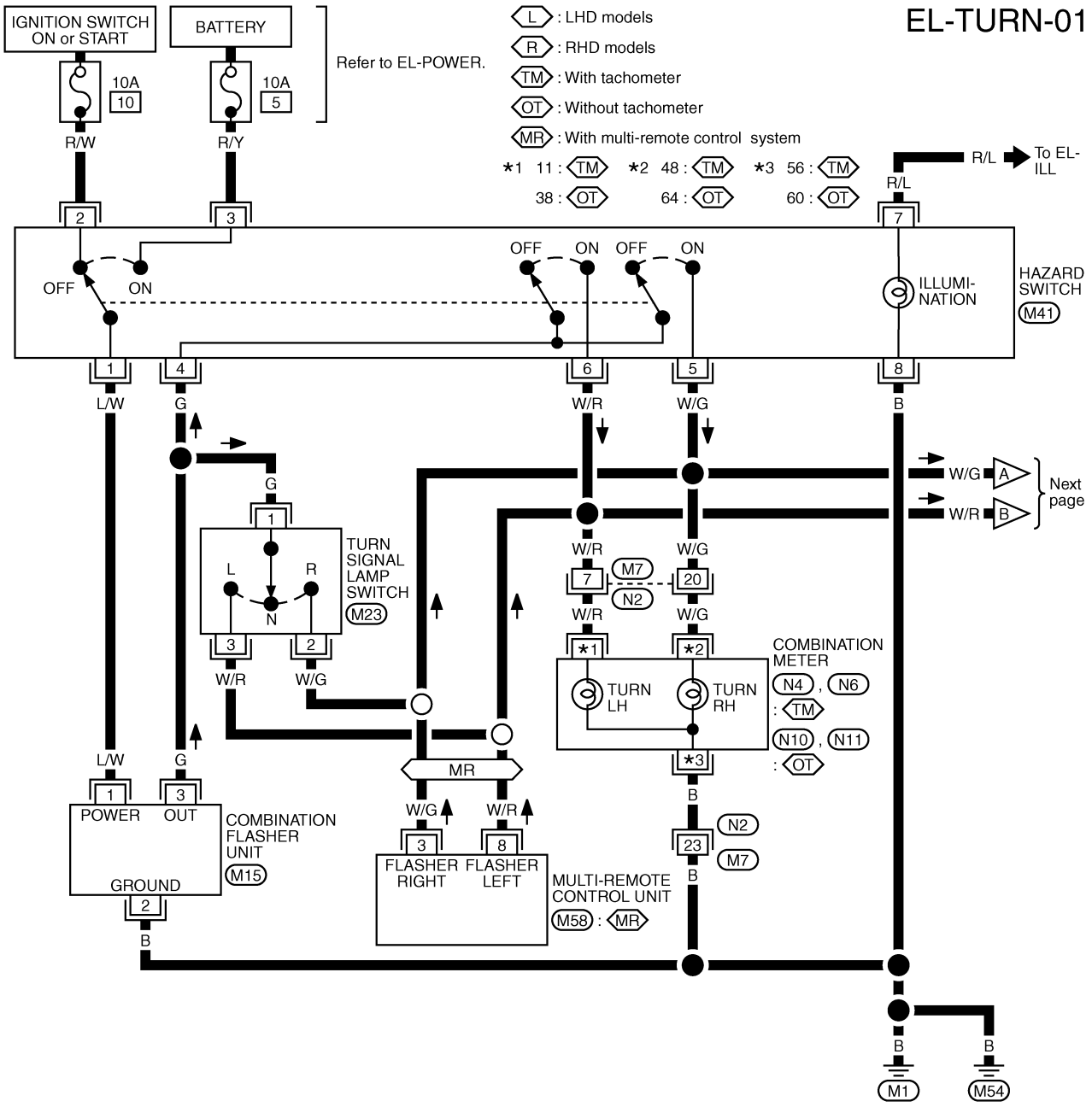


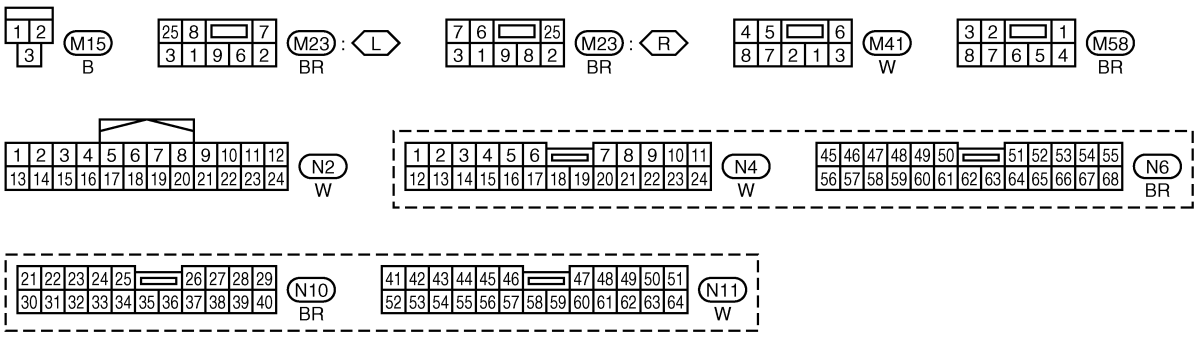
Refer to last page (Foldout page).

M5 , E101

GEL122B

Wiring Diagram — TURN —



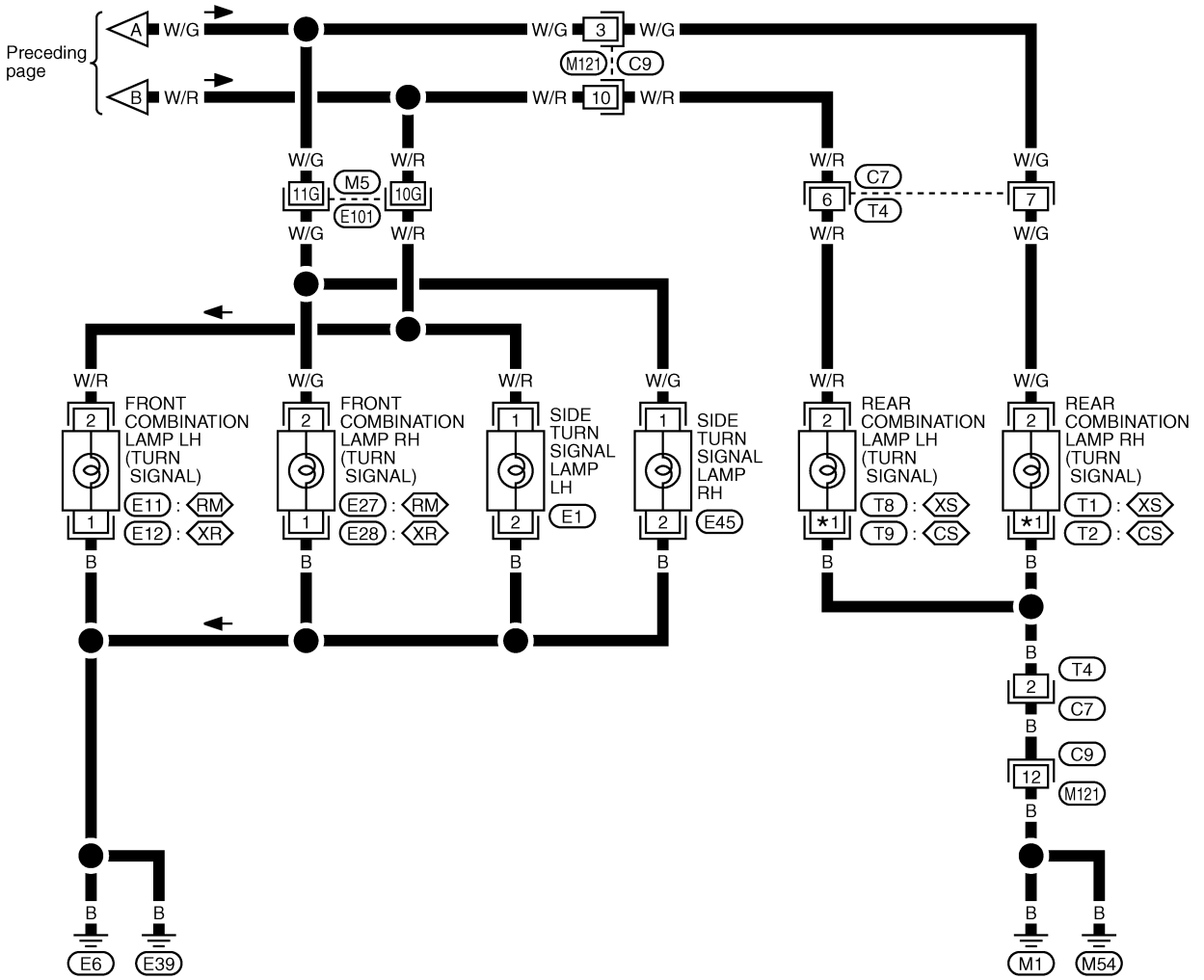


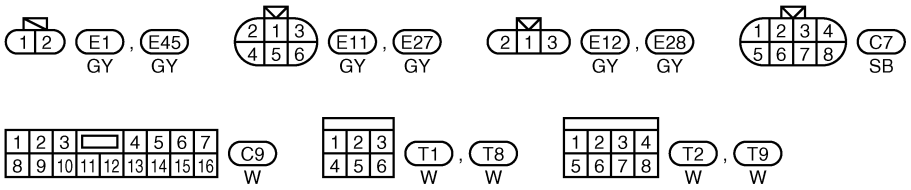
GEL123B

Wiring Diagram — TURN — (Cont'd)

EL-TURN-02

RM : 2WD models with regular rear body for the Middle East
XR : Except RM
CS : With regular rear body except A-chassis
XS : Except CS
*1 8 : CS
6 : XS



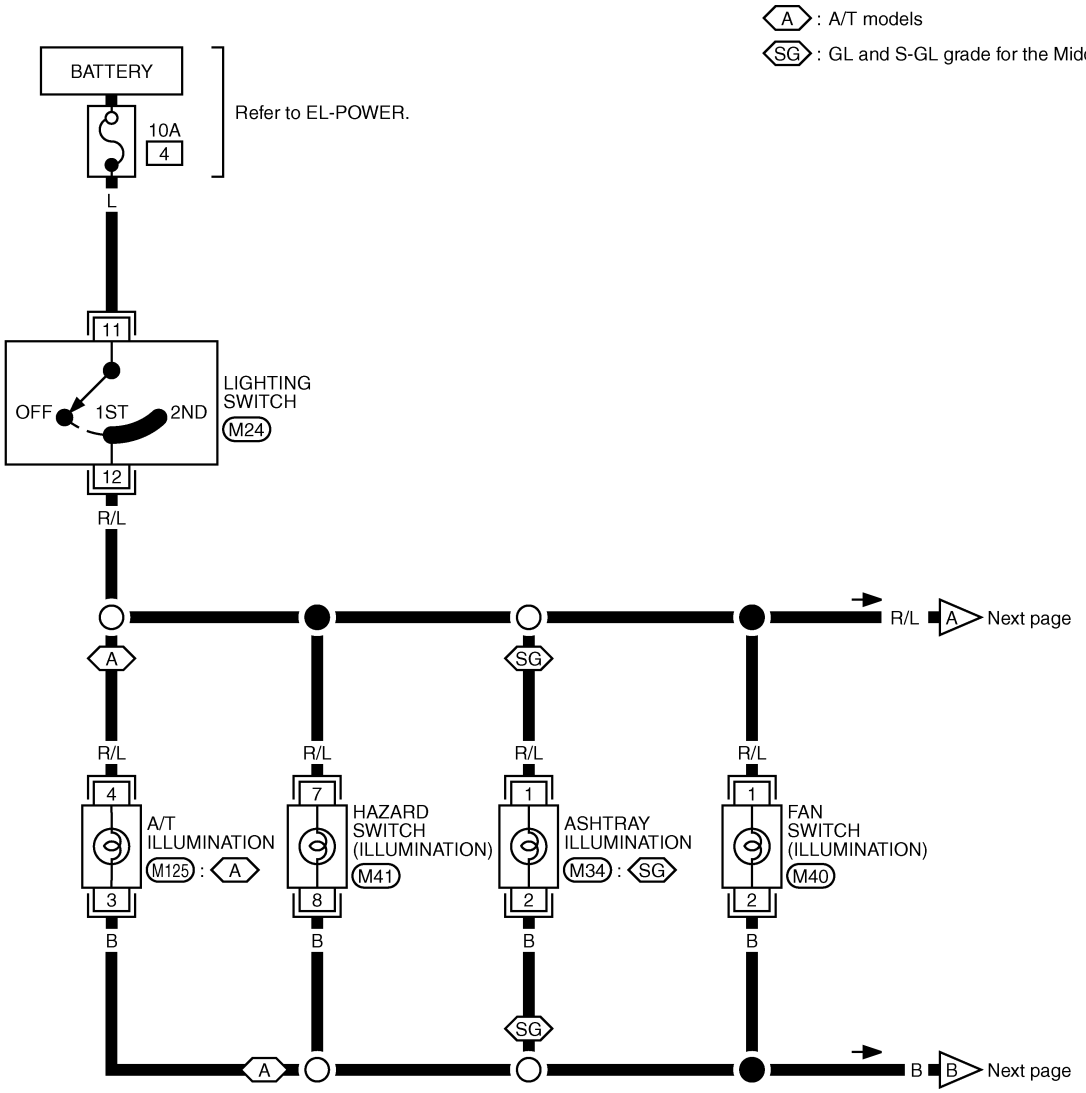


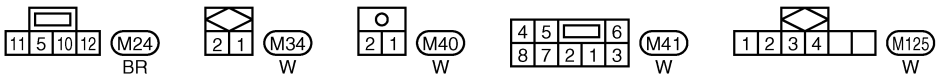
Refer to last page (Foldout page).
M5 , E101

GEL124B

Wiring Diagram — ILL —/LHD Models

EL-ILL-01

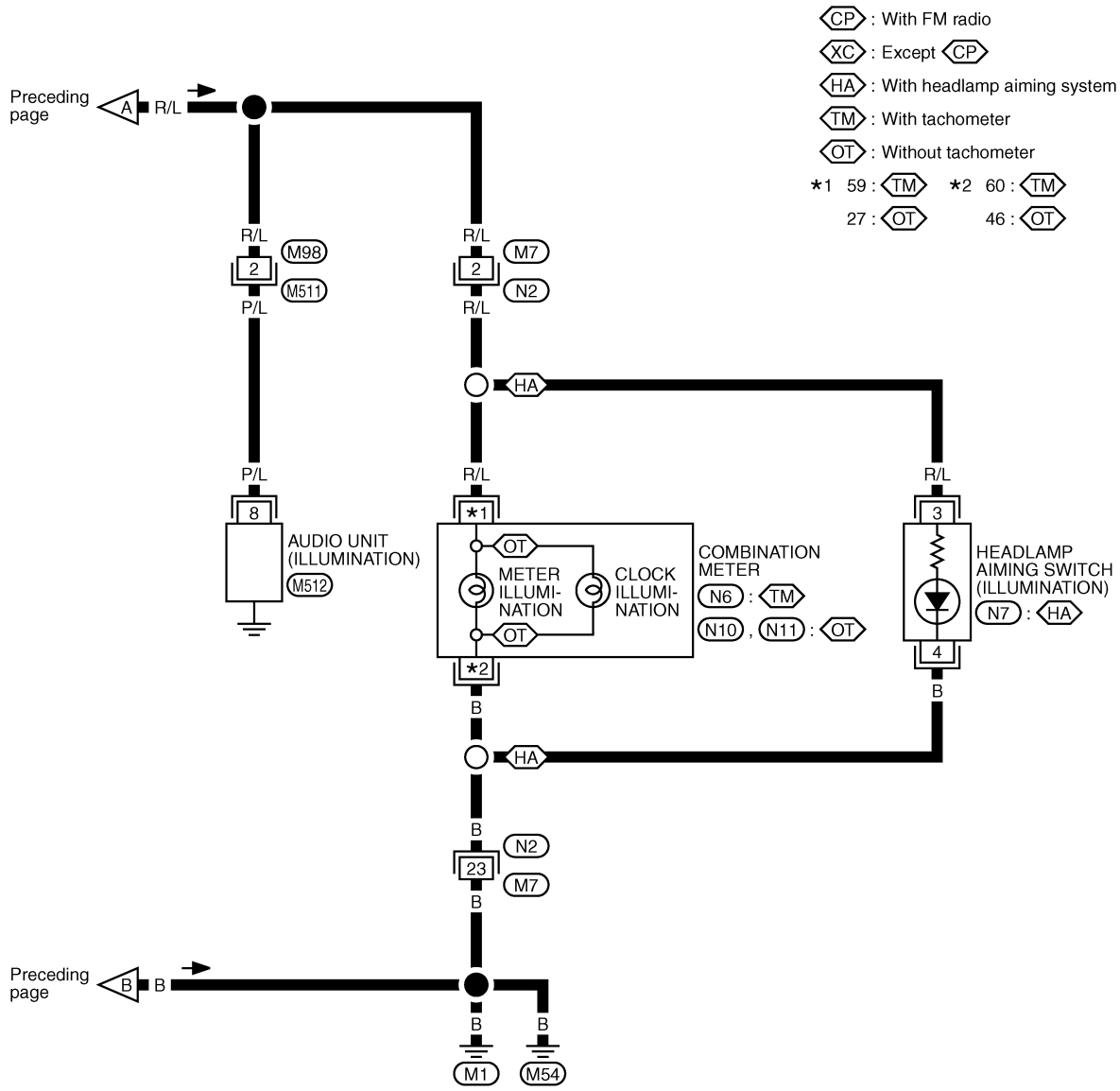


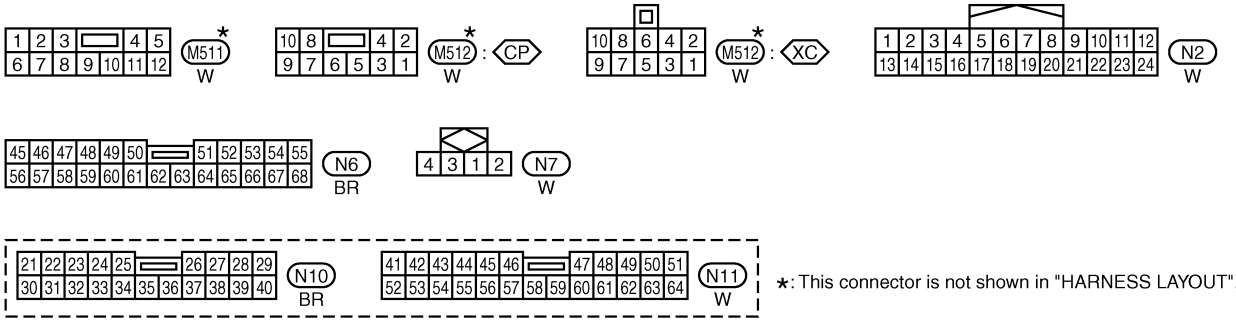


GEL125B

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

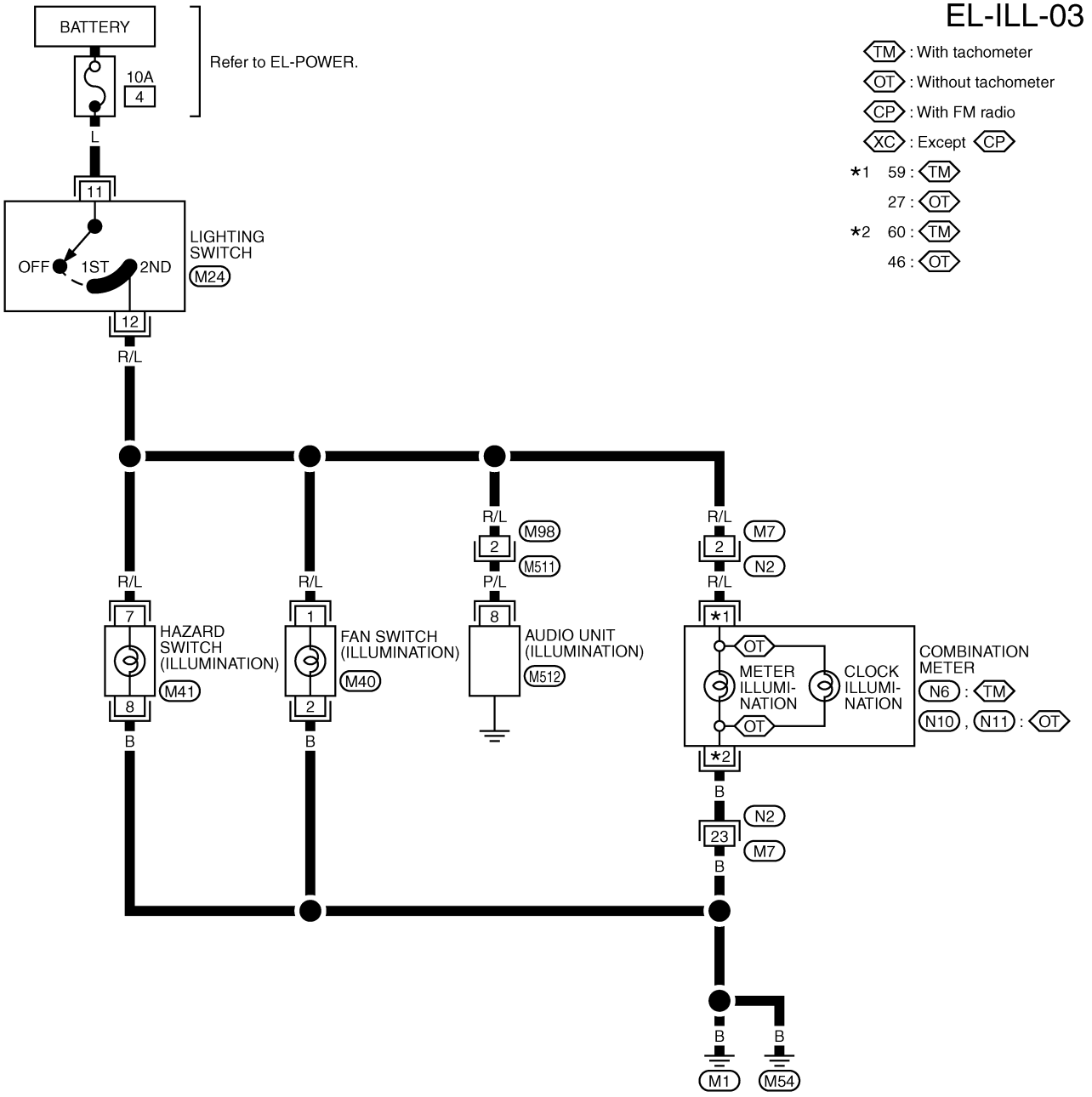
EL-ILL-02

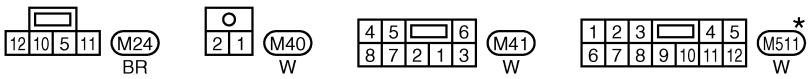




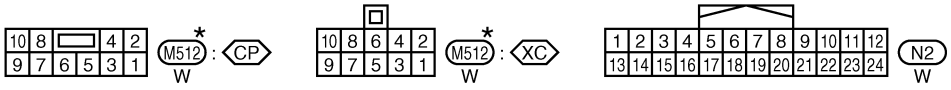
GEL126B

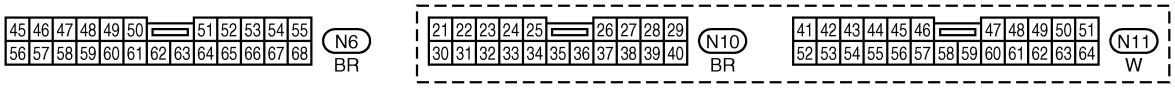
Wiring Diagram — ILL —/RHD Models





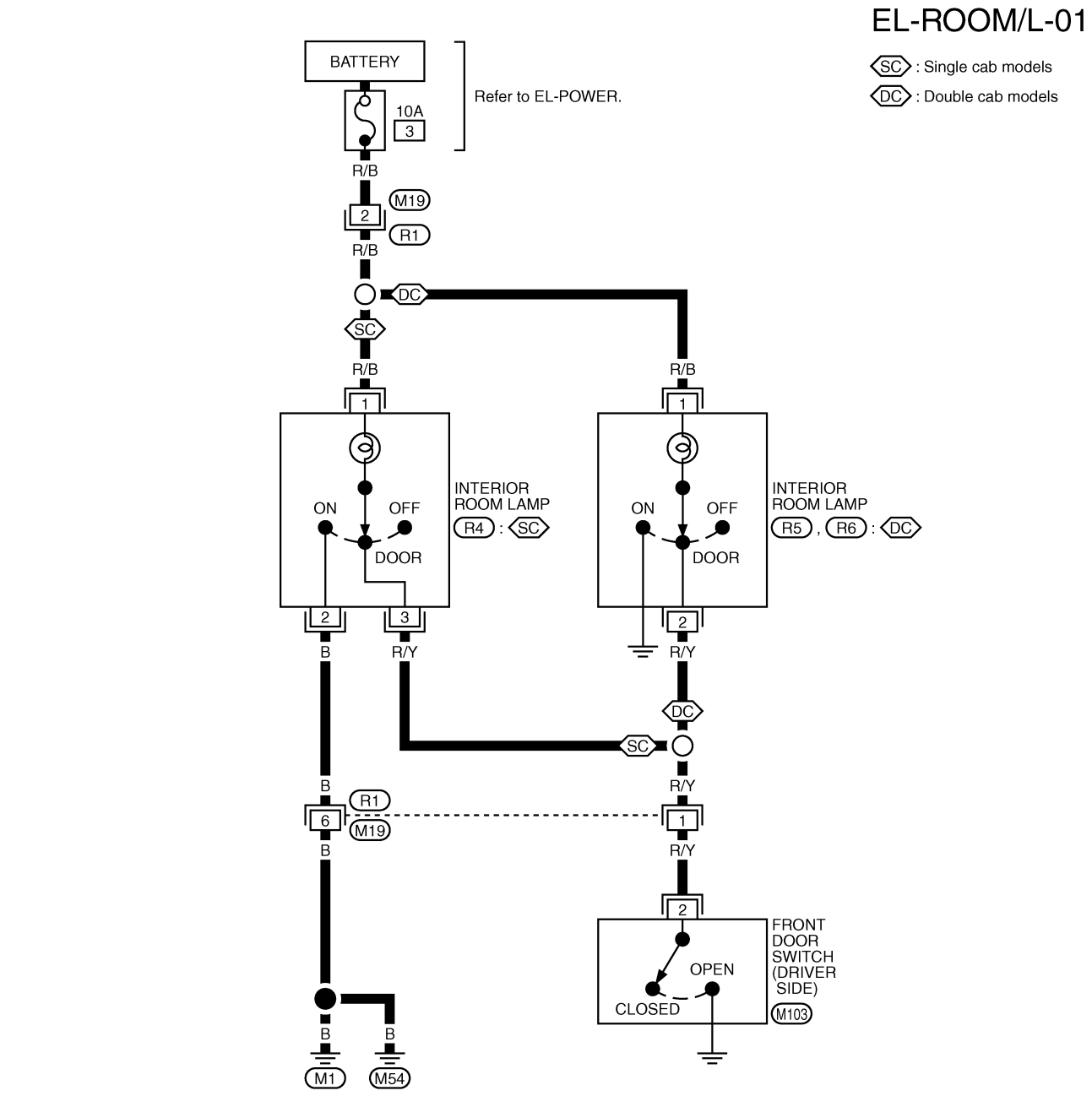
*: This connector is not shown in "HARNESS LAYOUT".





GEL127B

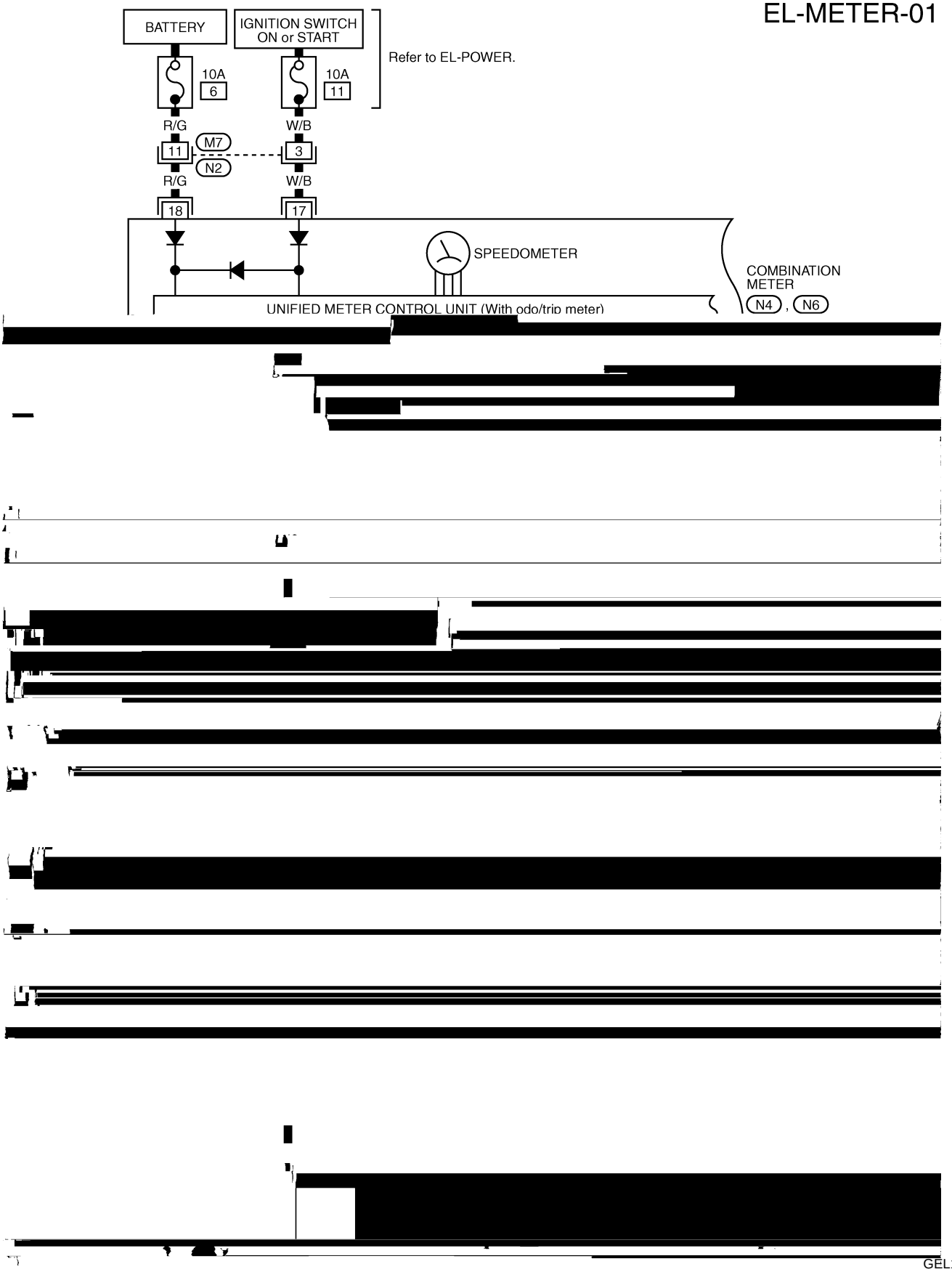
Wiring Diagram — ROOM/L —



GEL128B

Wiring Diagram — METER —/Gasoline Engine with Tachometer

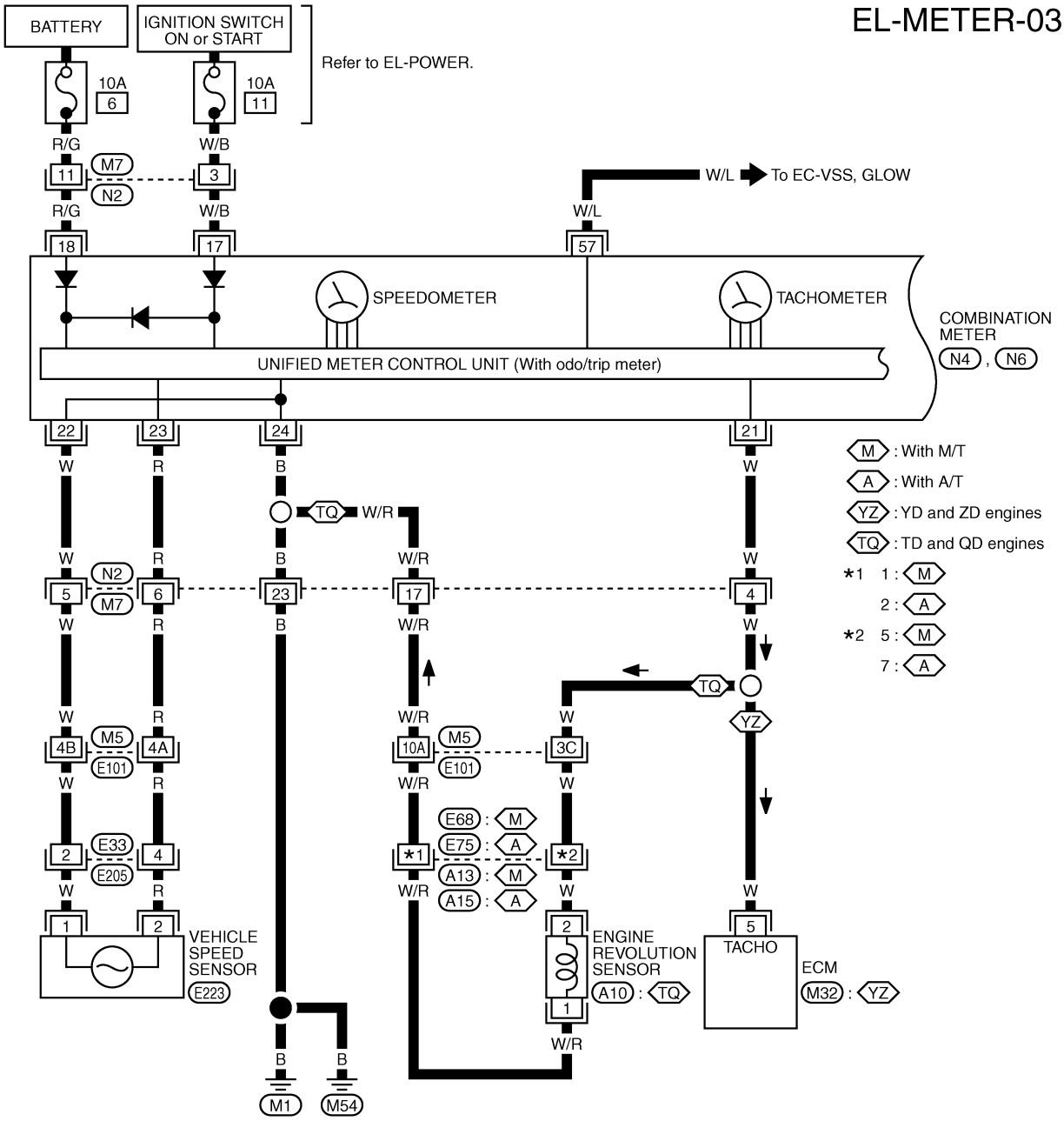
EL-METER-01

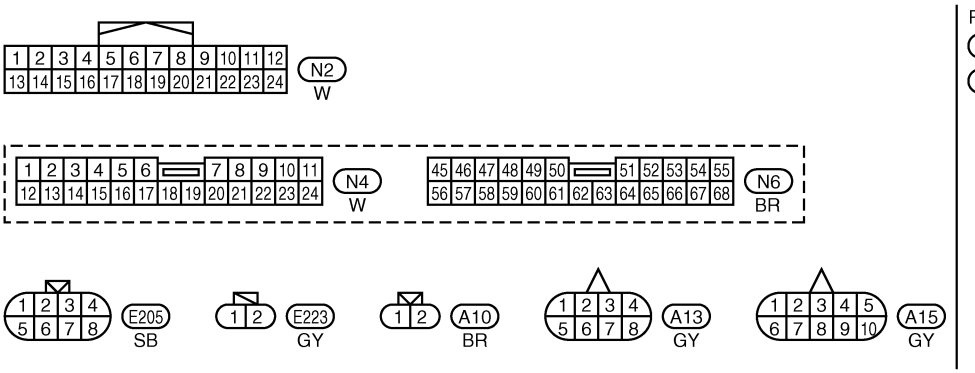


GEL129B

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

EL-METER-03





Refer to last page (Foldout page).
M5 , E101
M32

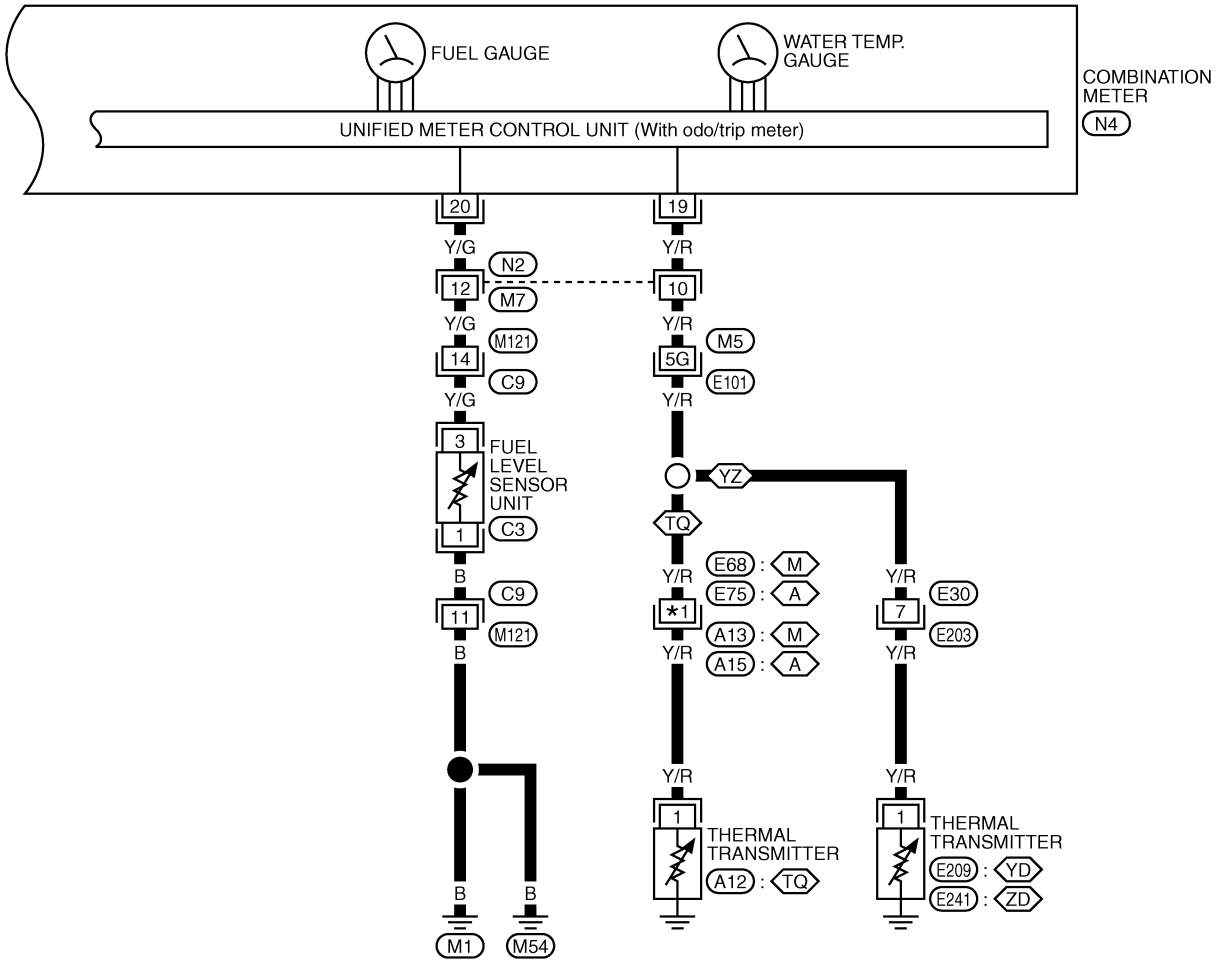
GEL131B

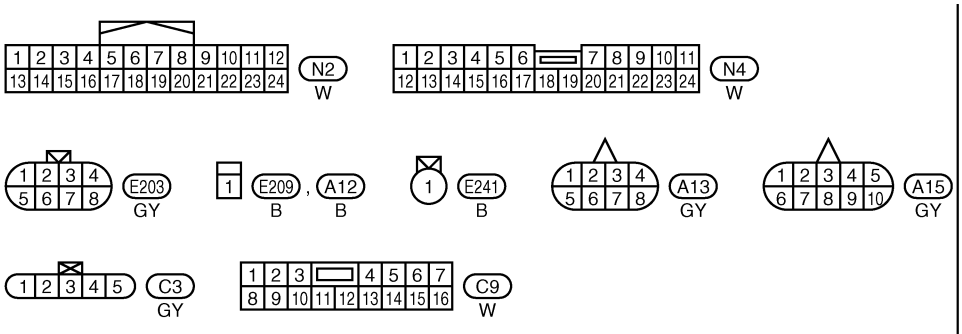
Wiring Diagram — METER —/LHD Diesel Engine Models with Tachometer (Cont'd)

EL-METER-04

M : With M/T
A : With A/T
YD : YD engine
ZD : ZD engine
YZ : YD and ZD engines
TQ : TD and QD engines

*1 7 : M
9 : A



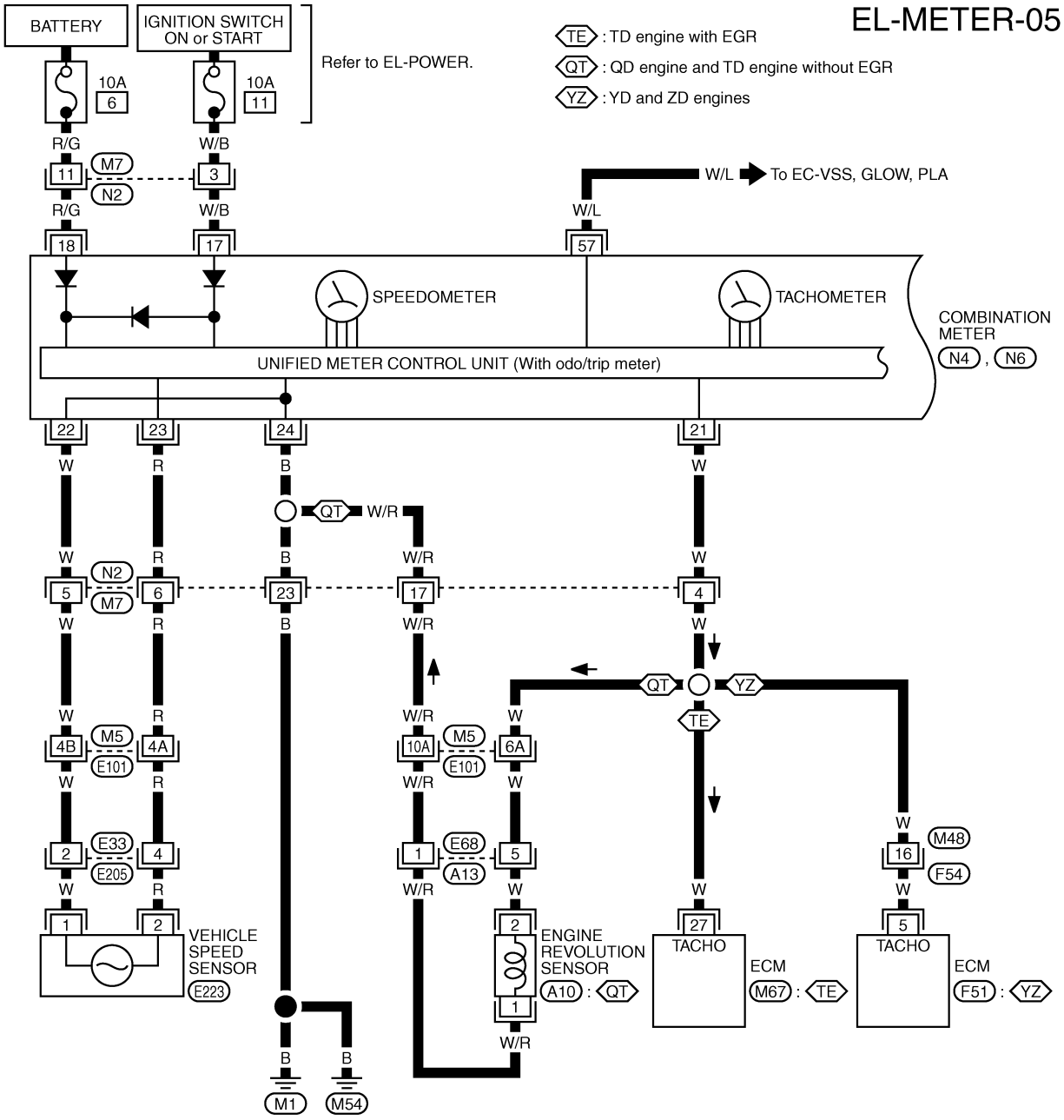


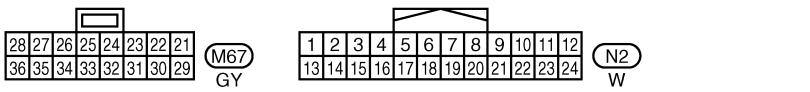
Refer to last page (Foldout page).
M5 , E101

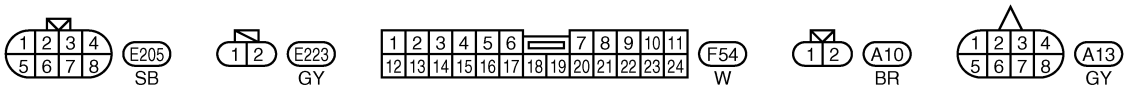
GEL132B

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

EL-METER-05





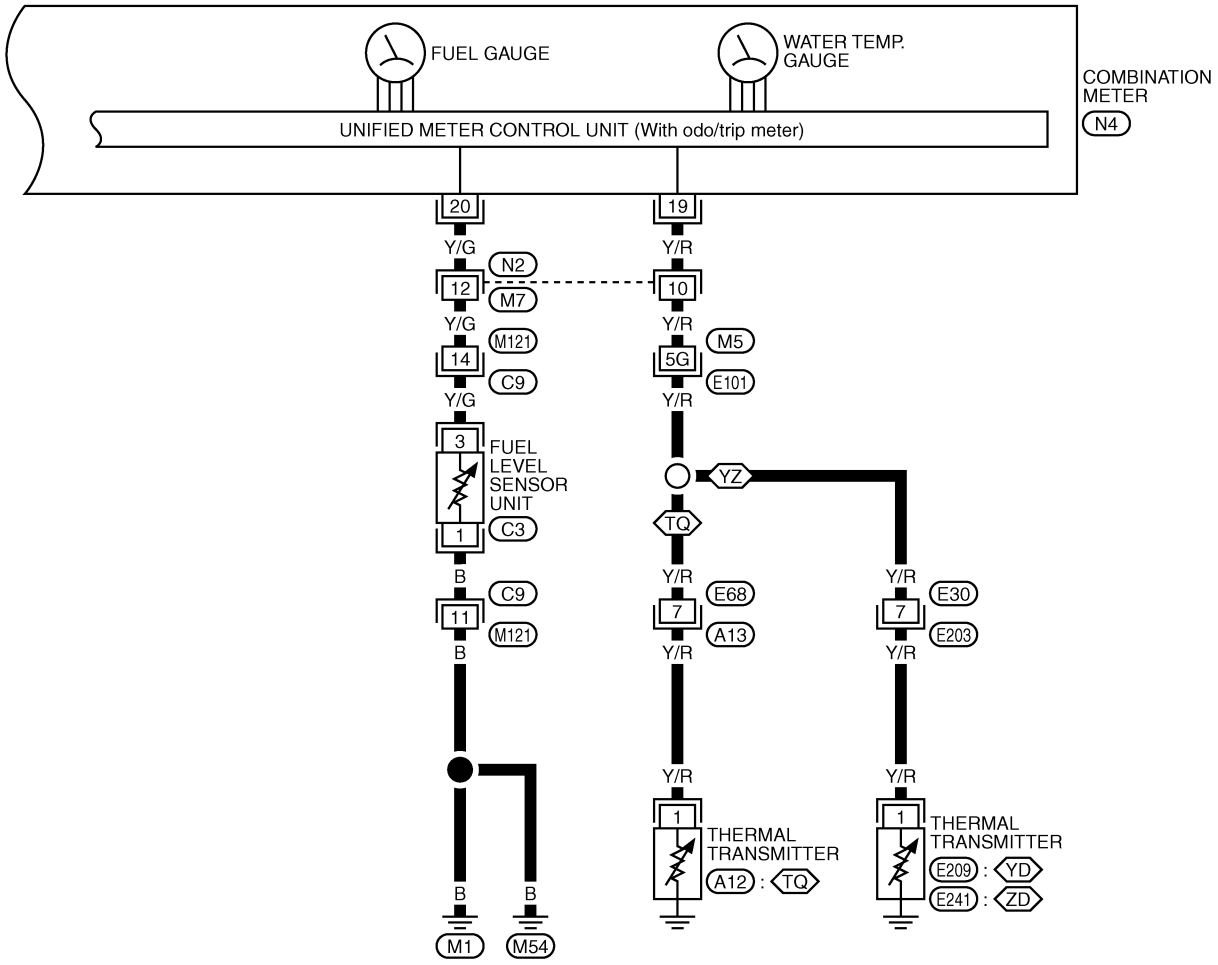


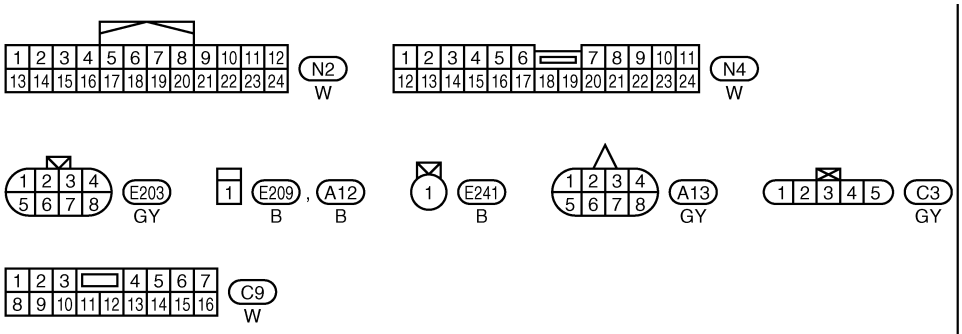
Refer to last page (Foldout page).
M5 , E101
F51

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

EL-METER-06

YD : YD engine
ZD : ZD engine
YZ : YD and ZD engines
TQ : TD and QD engines





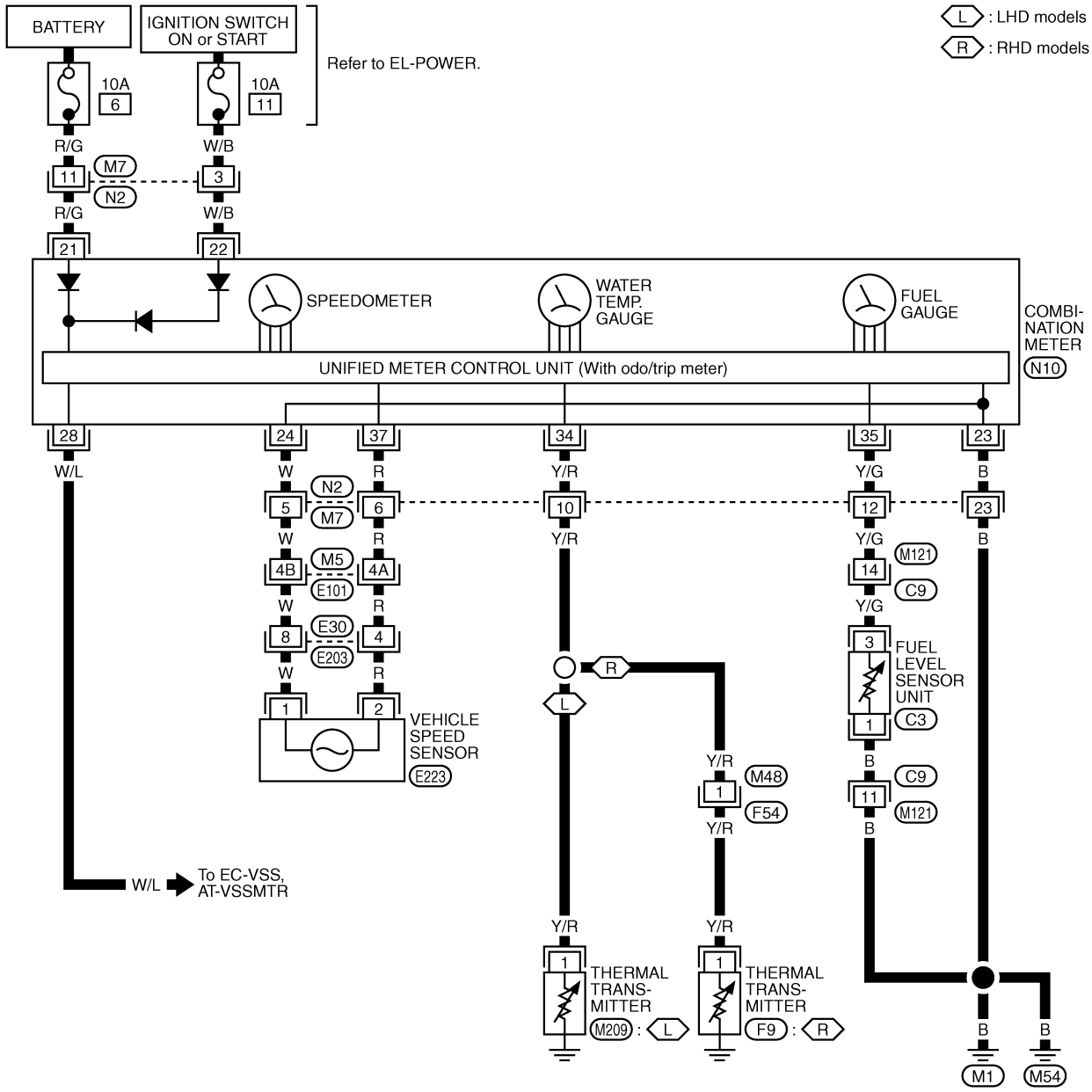
Refer to last page (Foldout page).
M5 , E101

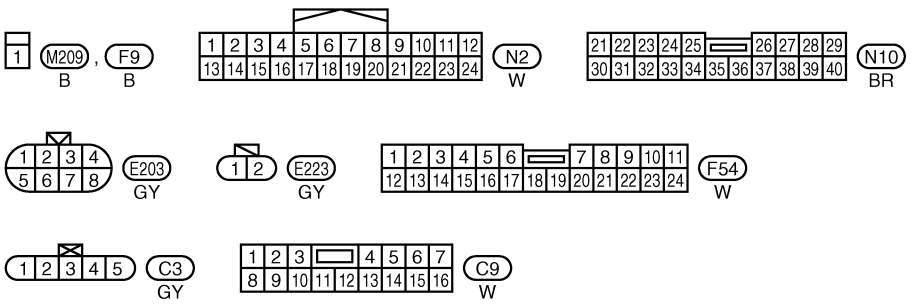
GEL134B

Wiring Diagram — METER —/Gasoline Engine without Tachometer

EL-METER-07

L : LHD models
R : RHD models

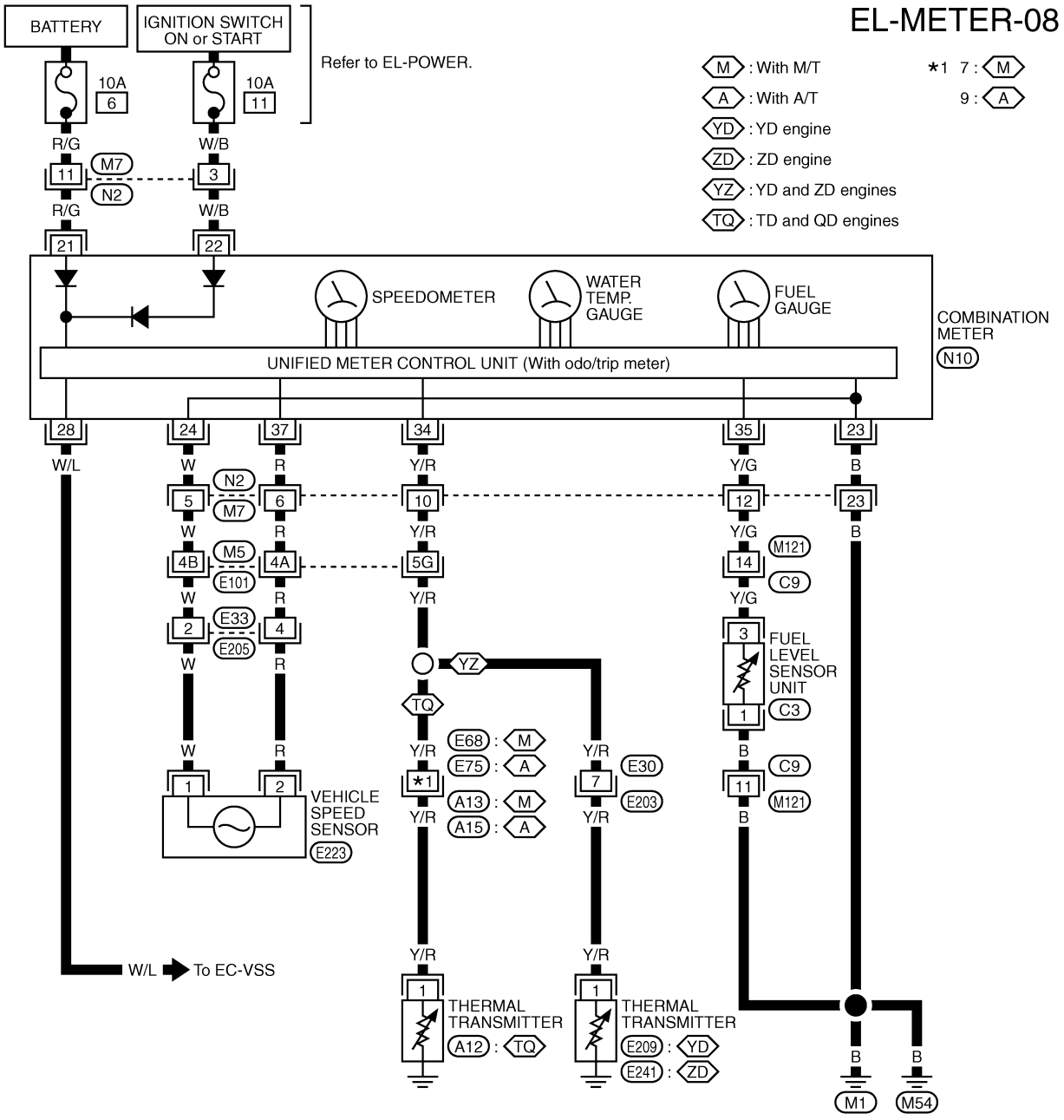


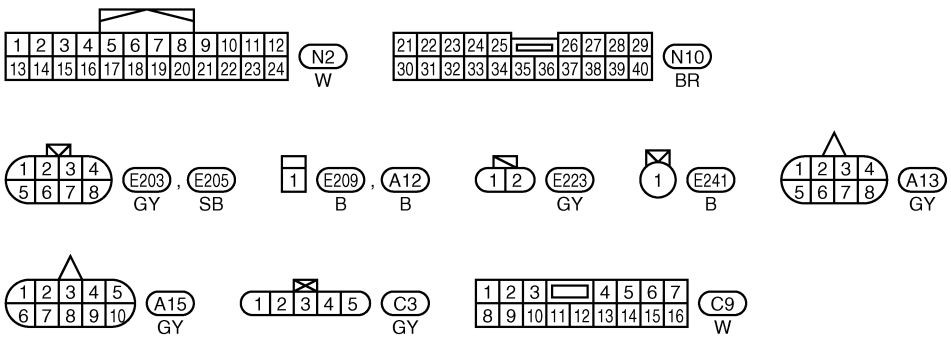


Refer to last page (Foldout page).
M5 , E101

GEL135B

Wiring Diagram — METER —/Diesel Engine without Tachometer

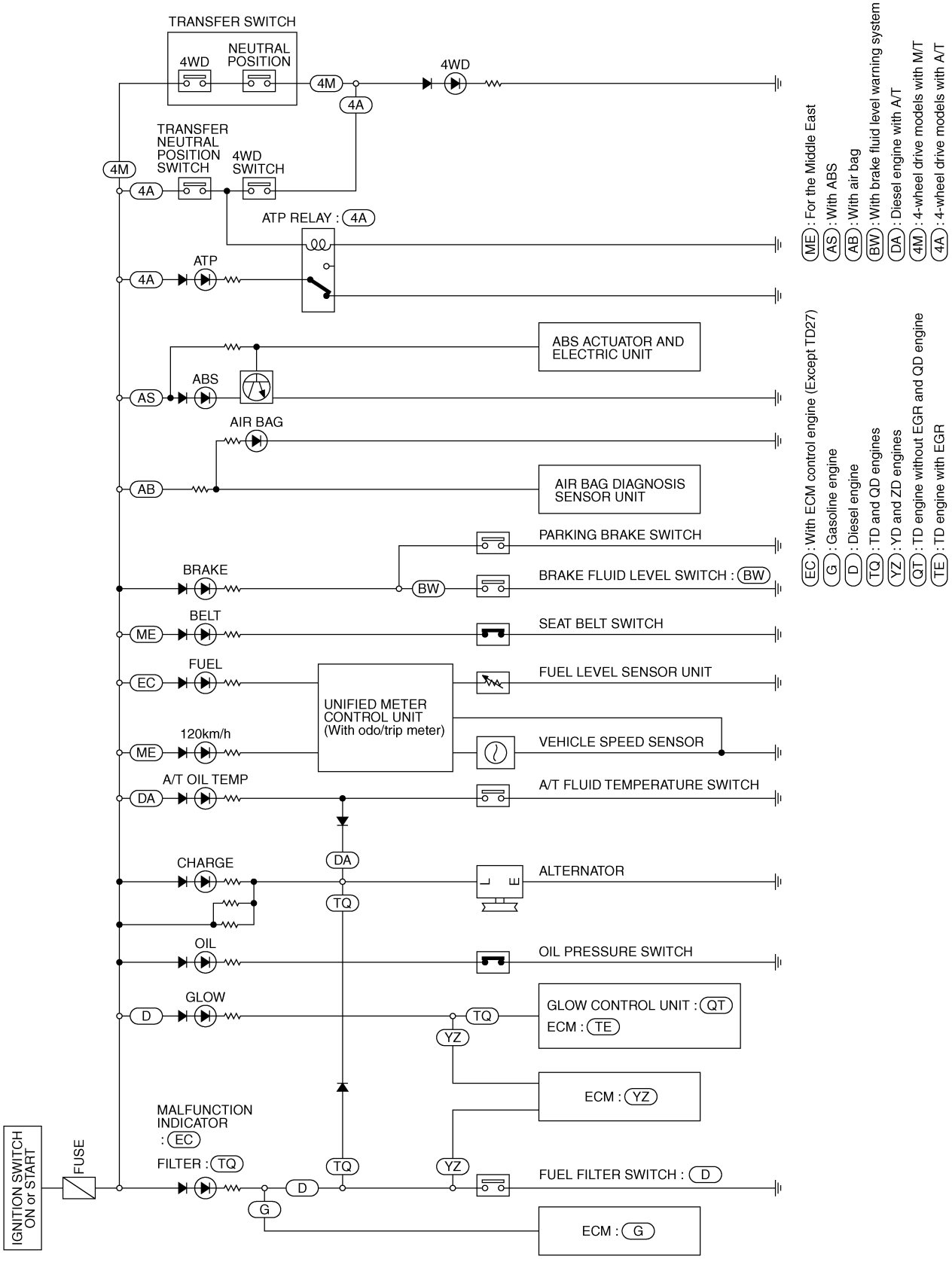




Refer to last page (Foldout page).
M5 , E101

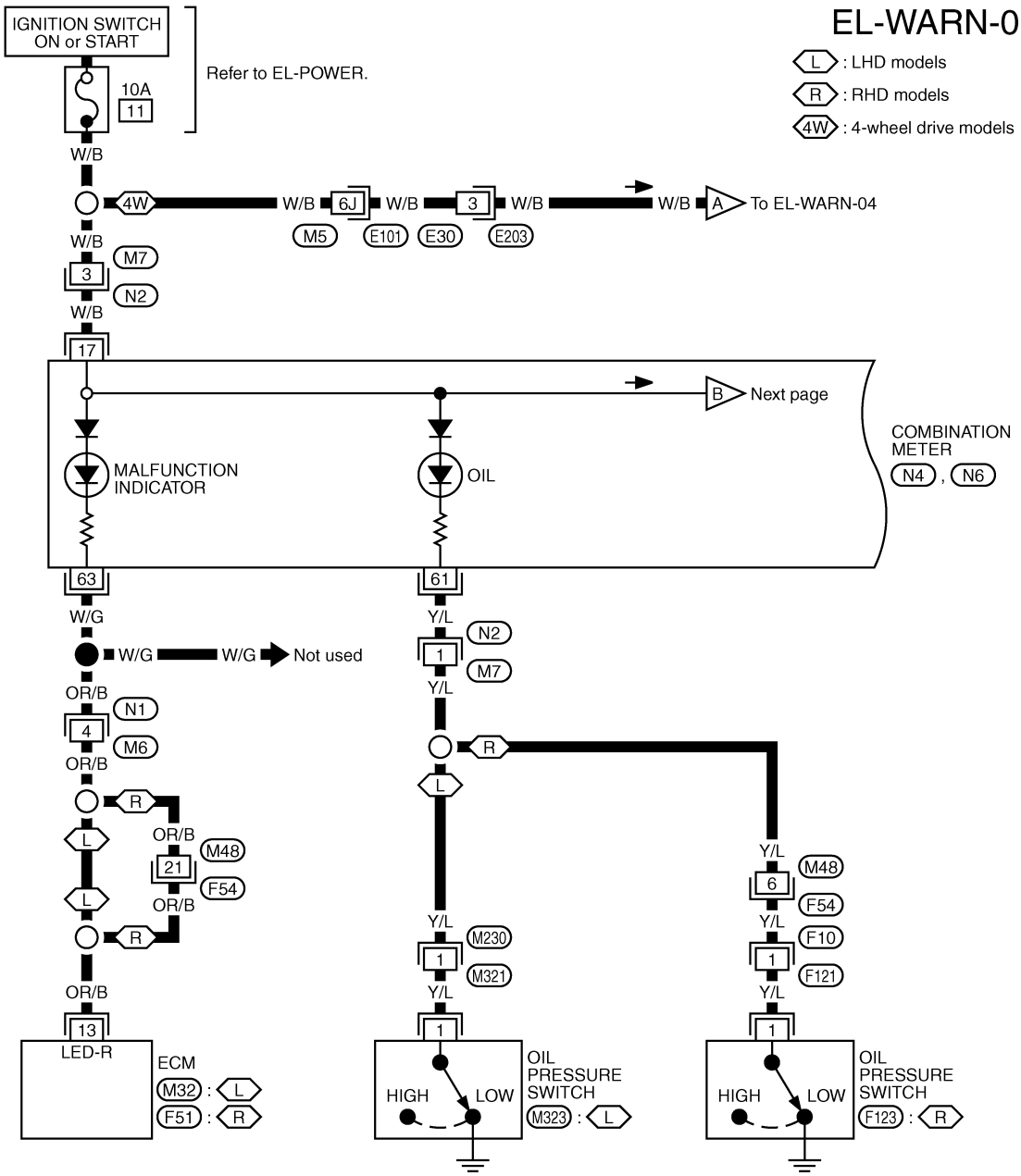
GEL136B

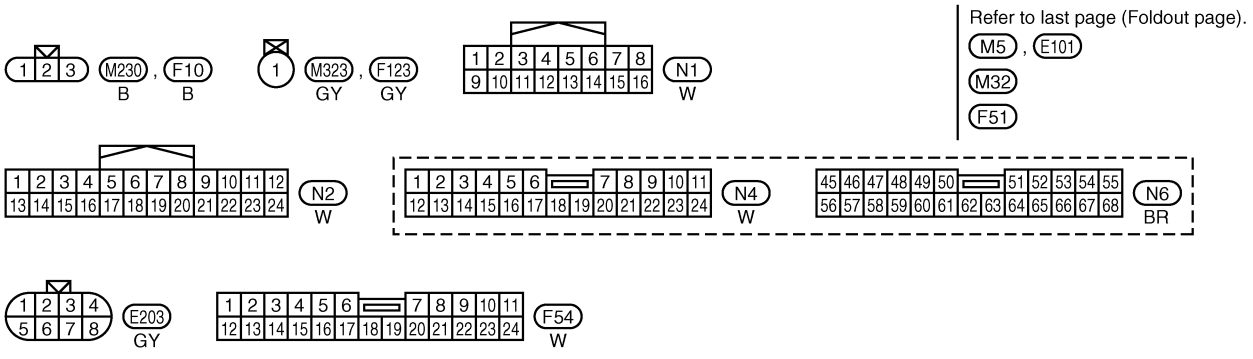
Schematic/With Tachometer



GEL137B

Wiring Diagram — WARN —/Gasoline Engine with Tachometer

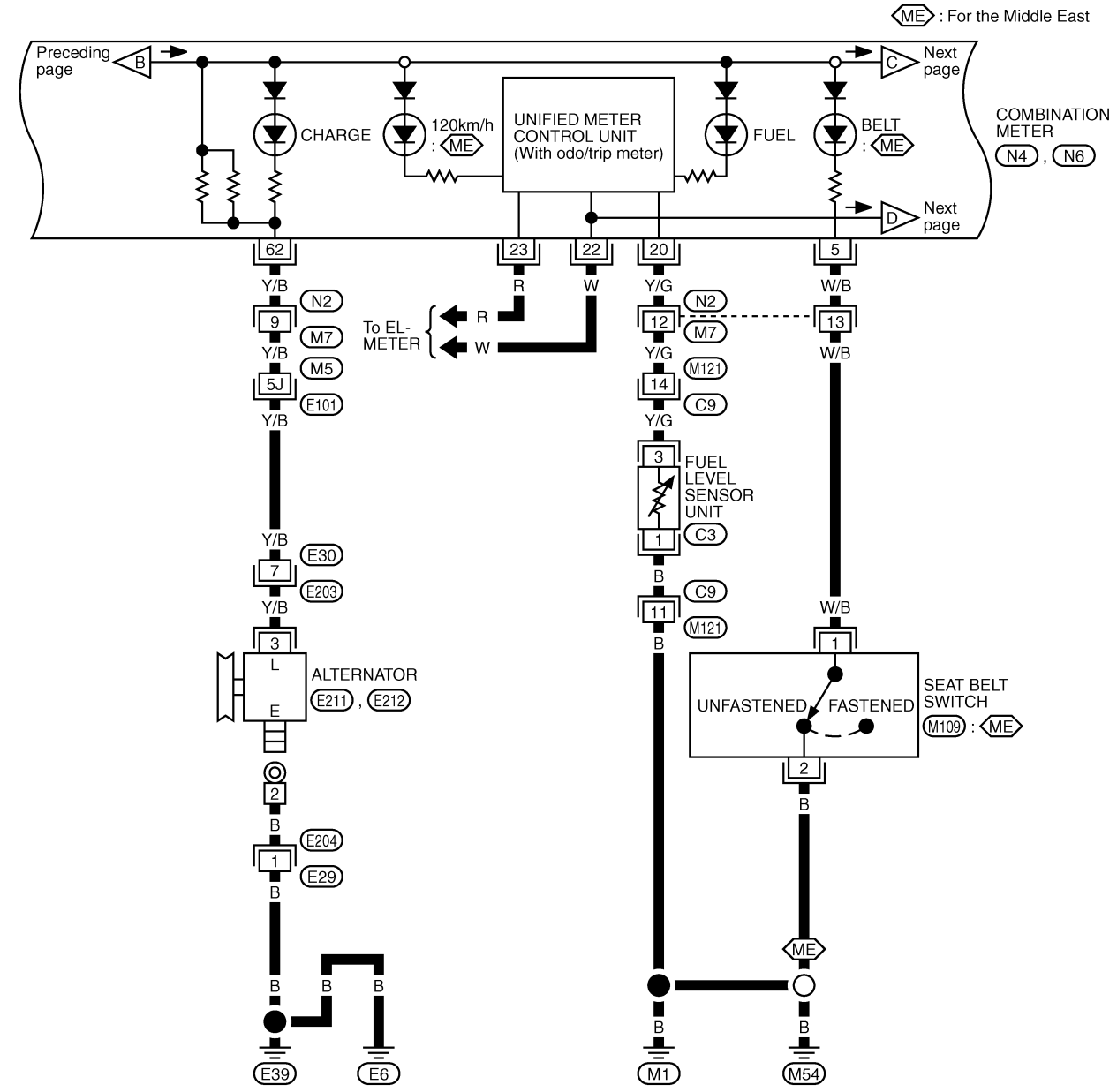


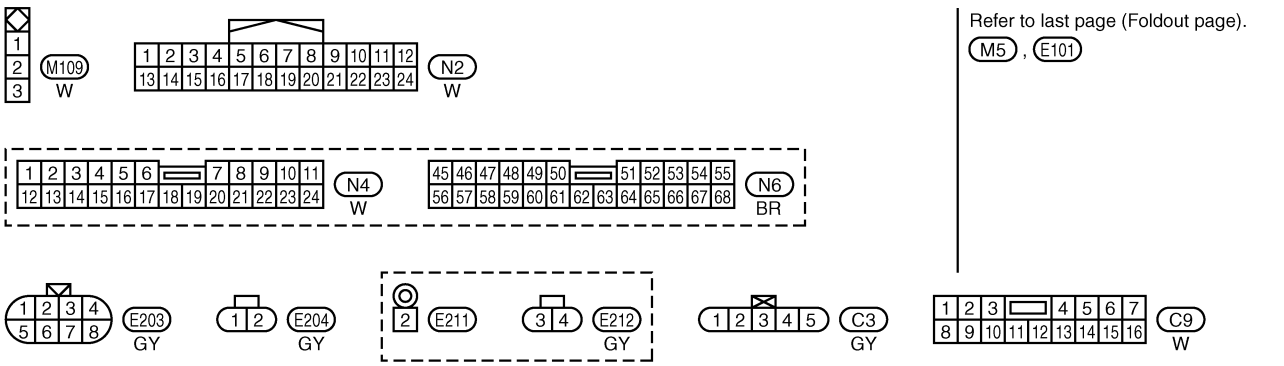


GEL138B

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

EL-WARN-02



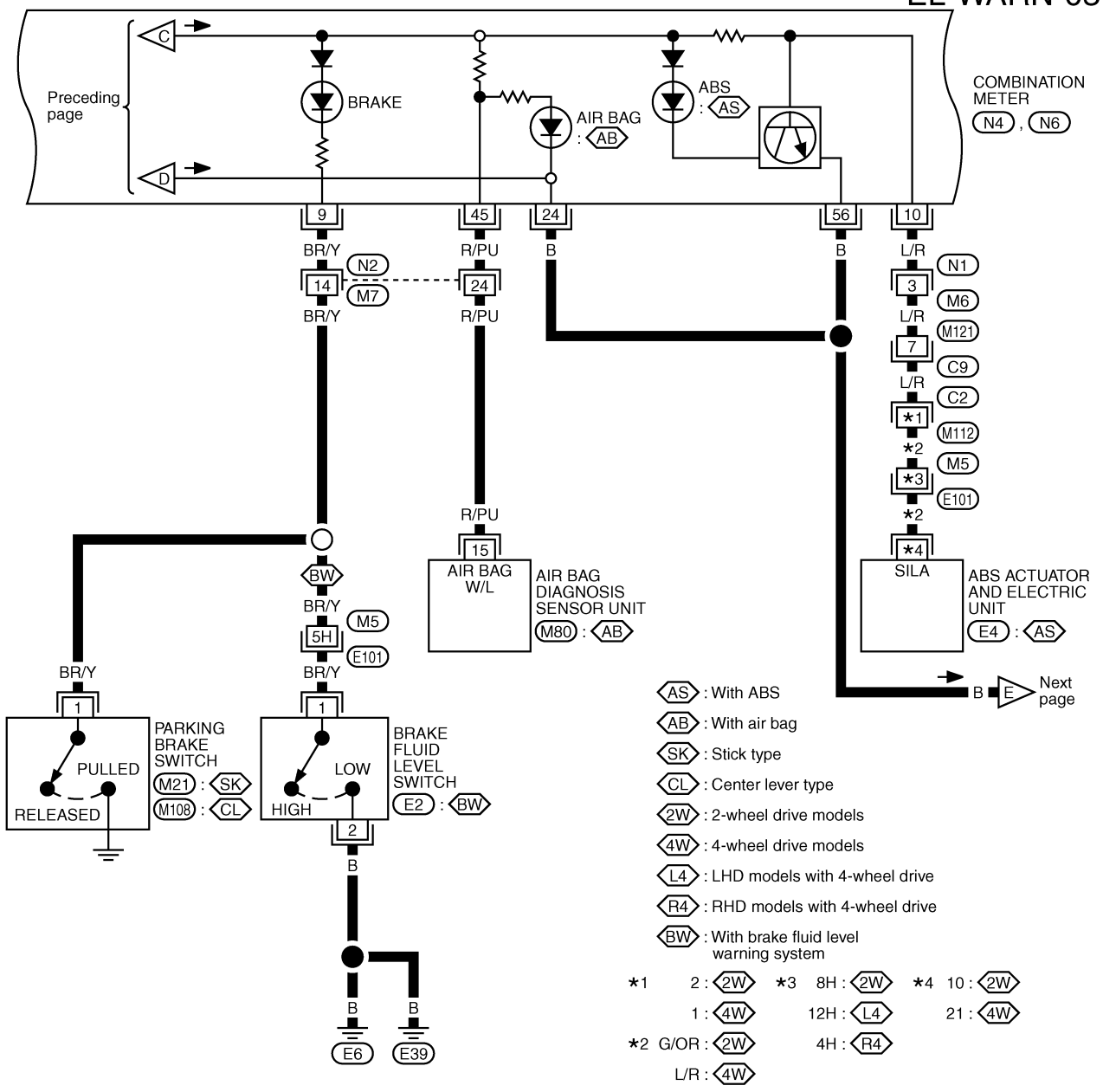


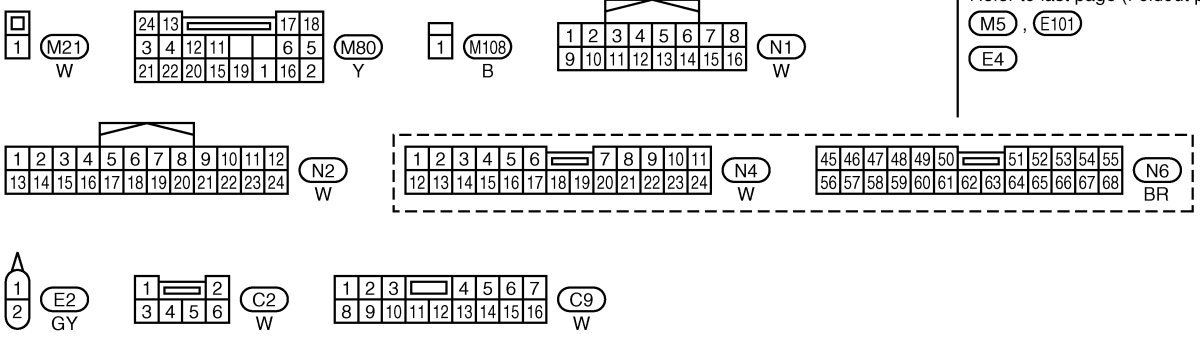
Refer to last page (Foldout page).
M5 , E101

GEL139B

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

EL-WARN-03

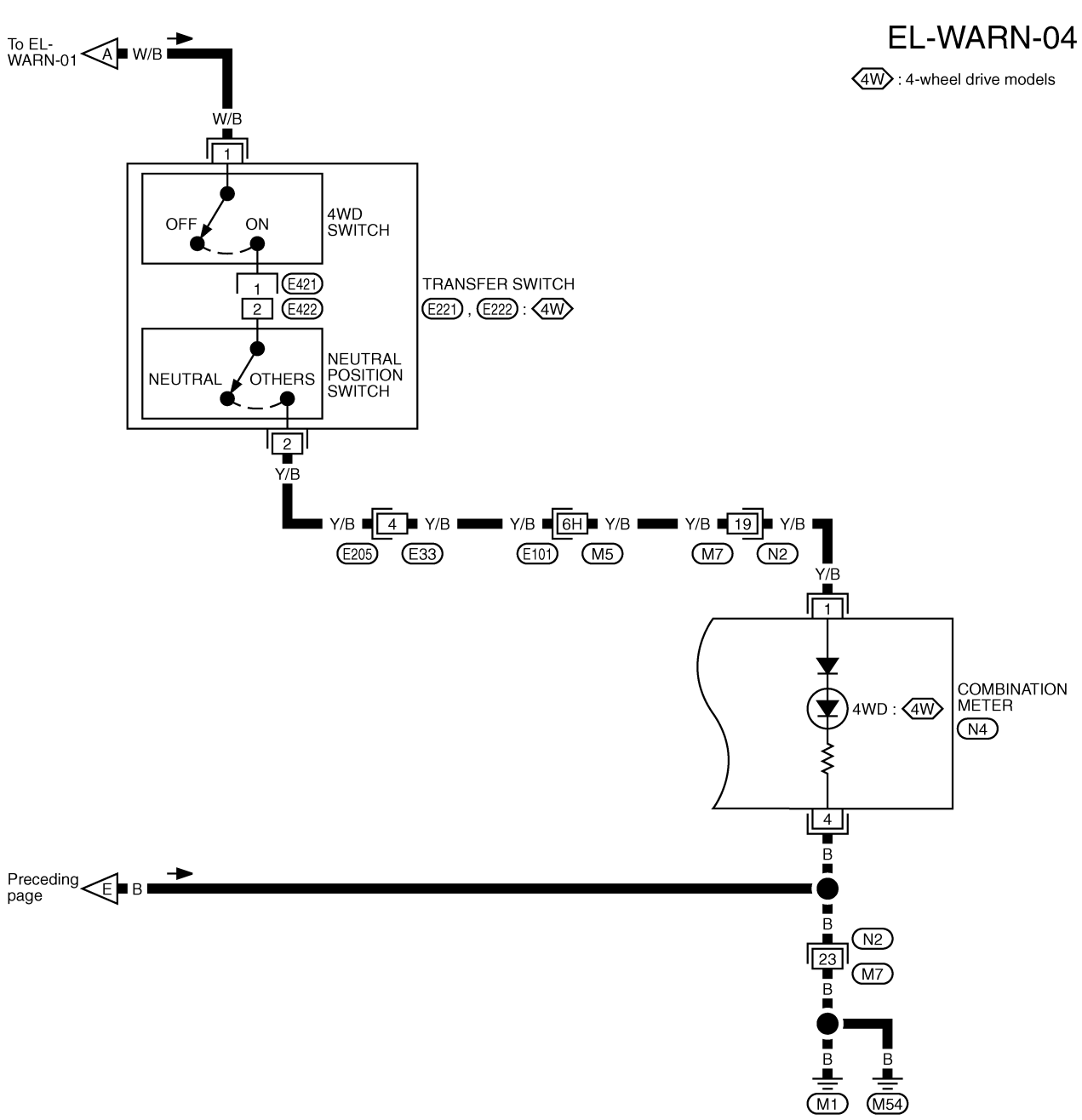




Refer to last page (Foldout page).
M5 , E101
E4

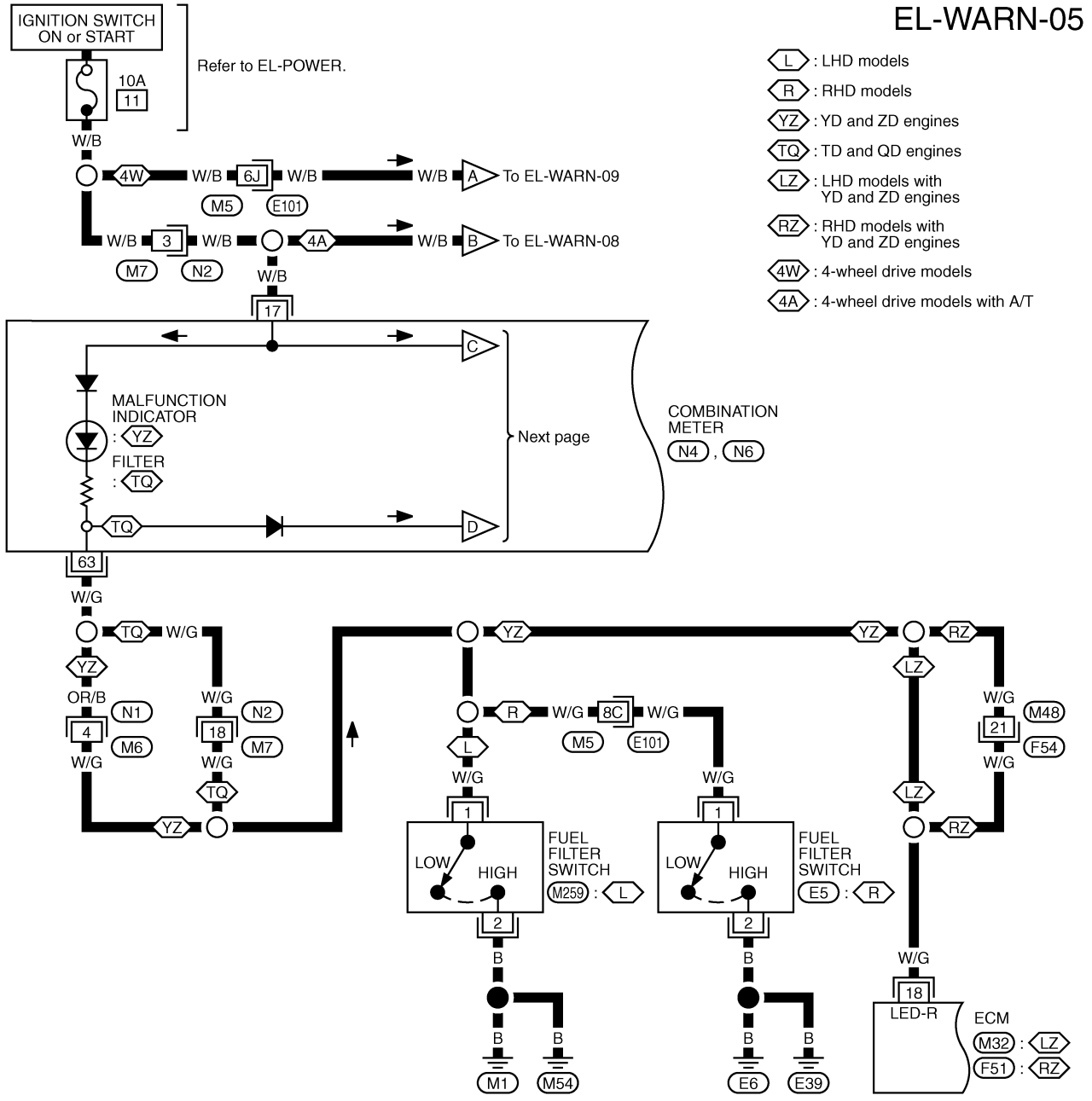
GEL140B

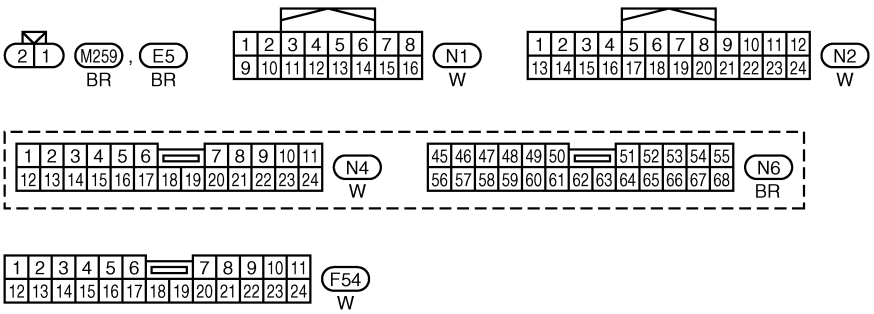
Wiring Diagram — WARN —/Gasoline Engine with Tachometer (Cont'd)



GEL141B

Wiring Diagram — WARN —/Diesel Engine with Tachometer





Refer to last page (Foldout page).

M5 , E101

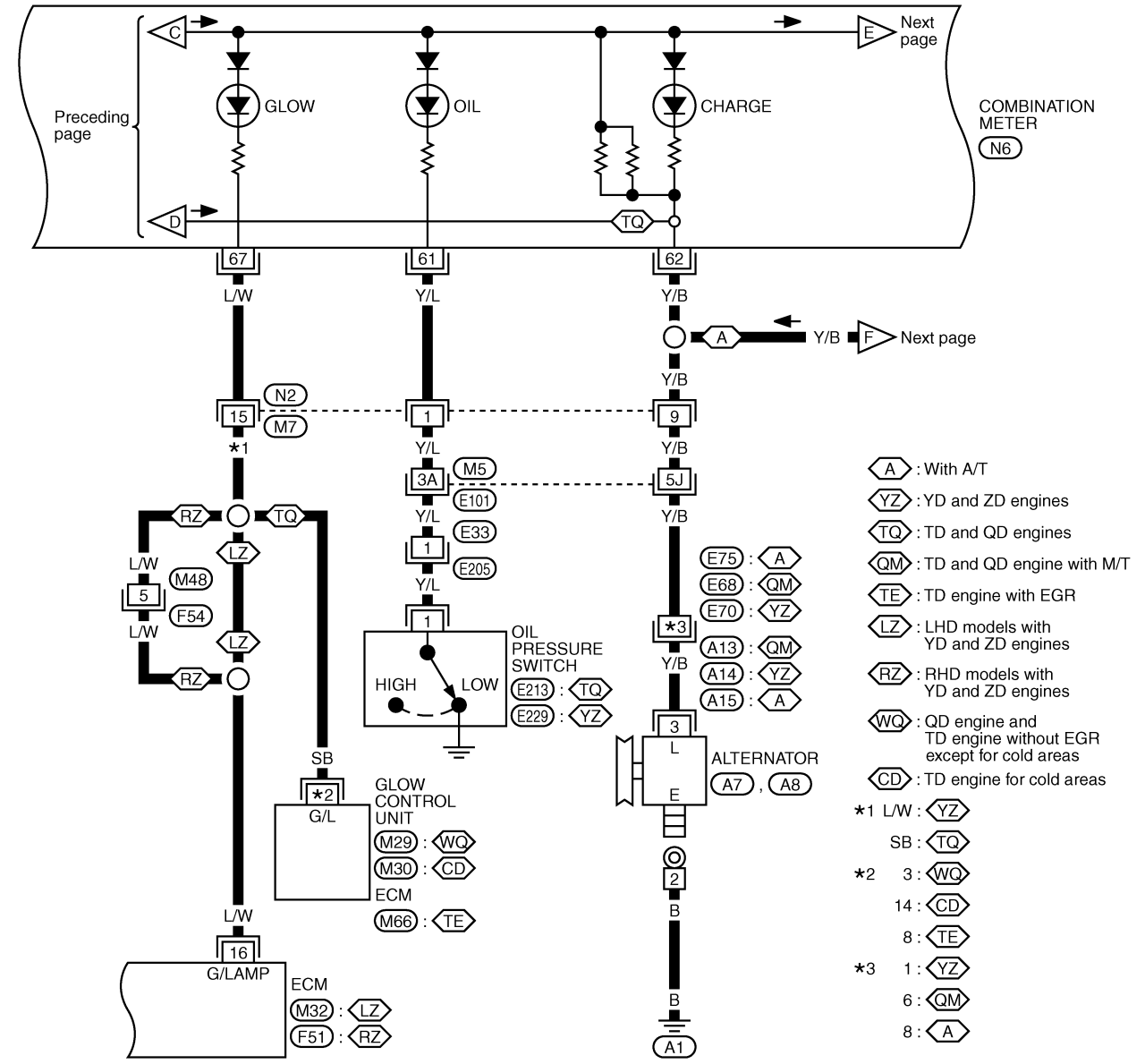
M32

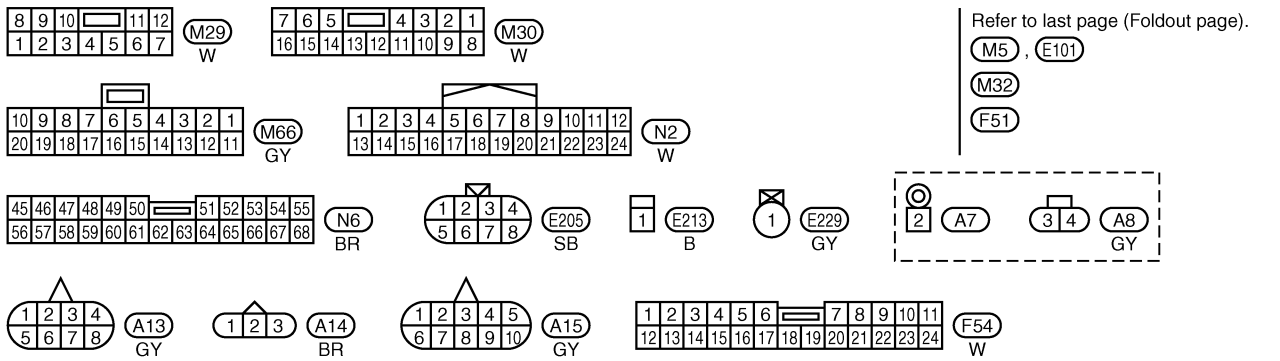
F51

GEL142B

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

EL-WARN-06

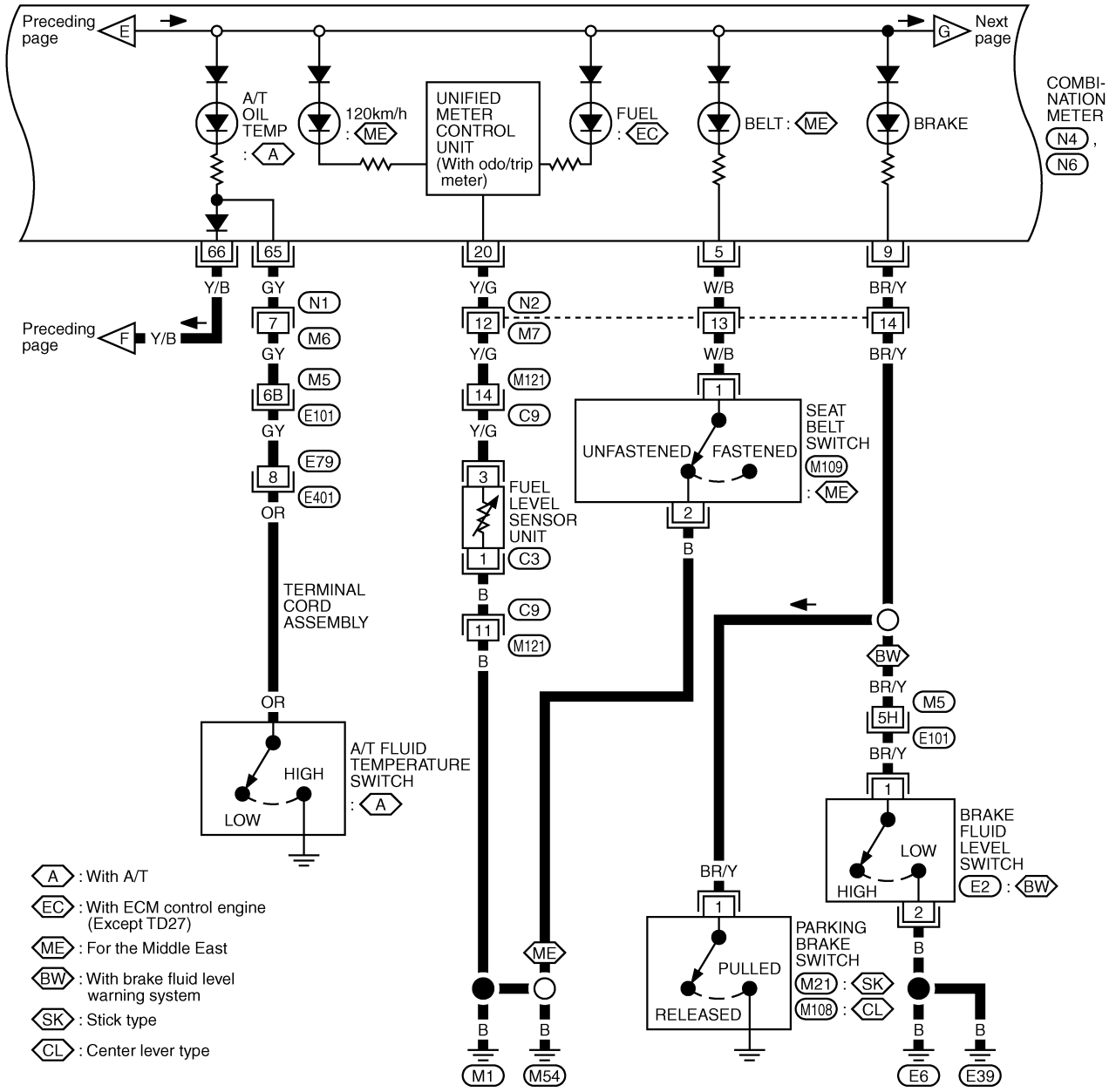




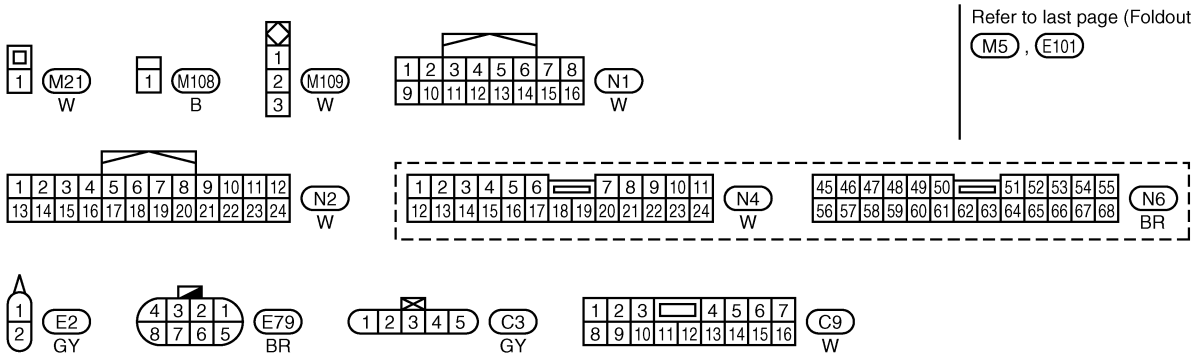
GEL143B

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

EL-WARN-07

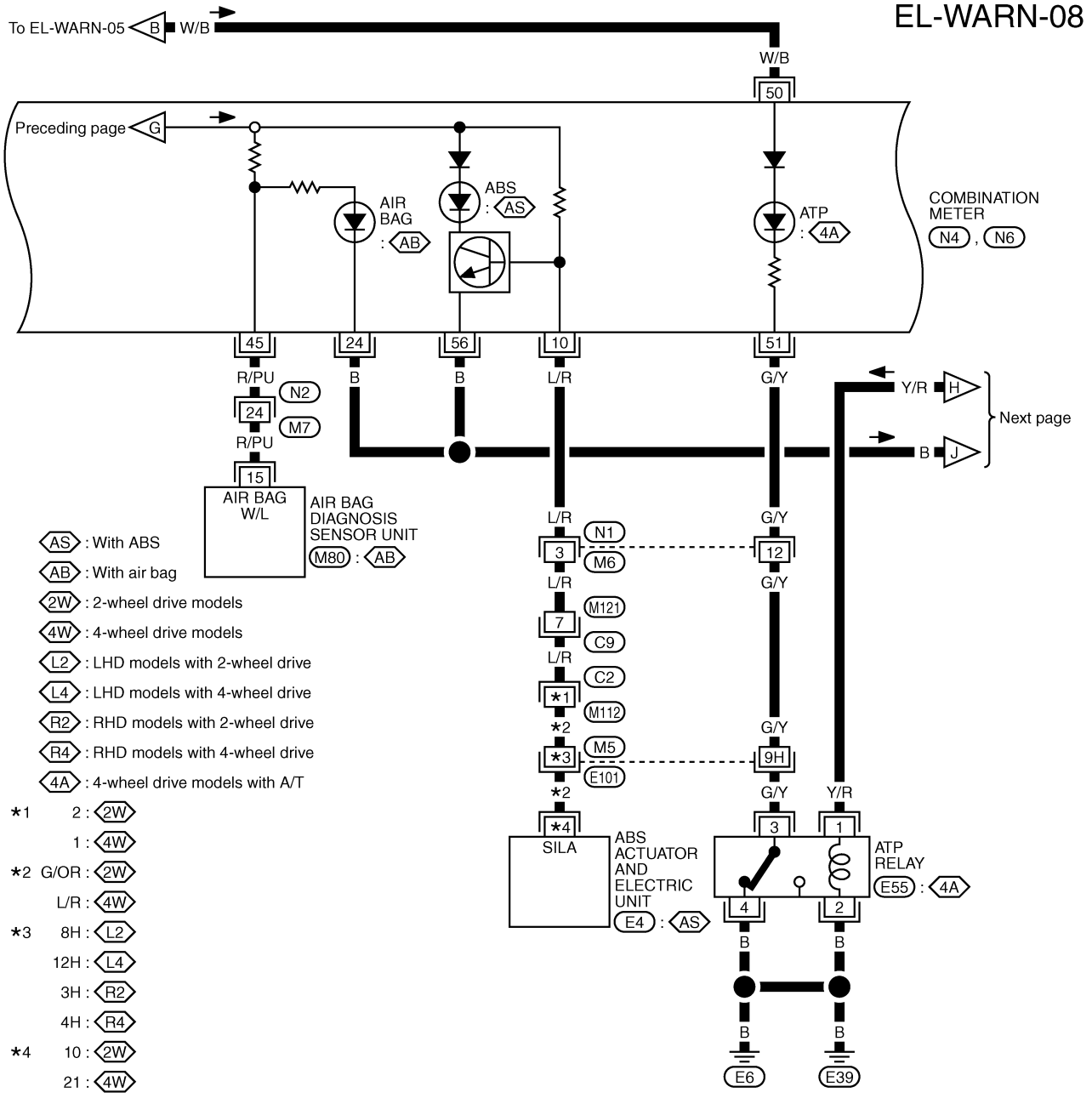


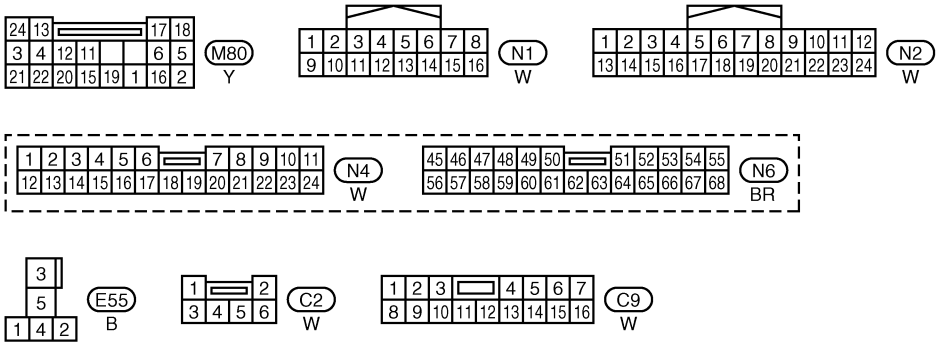
Refer to last page (Foldout page).
M5, E101



GEL144B

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

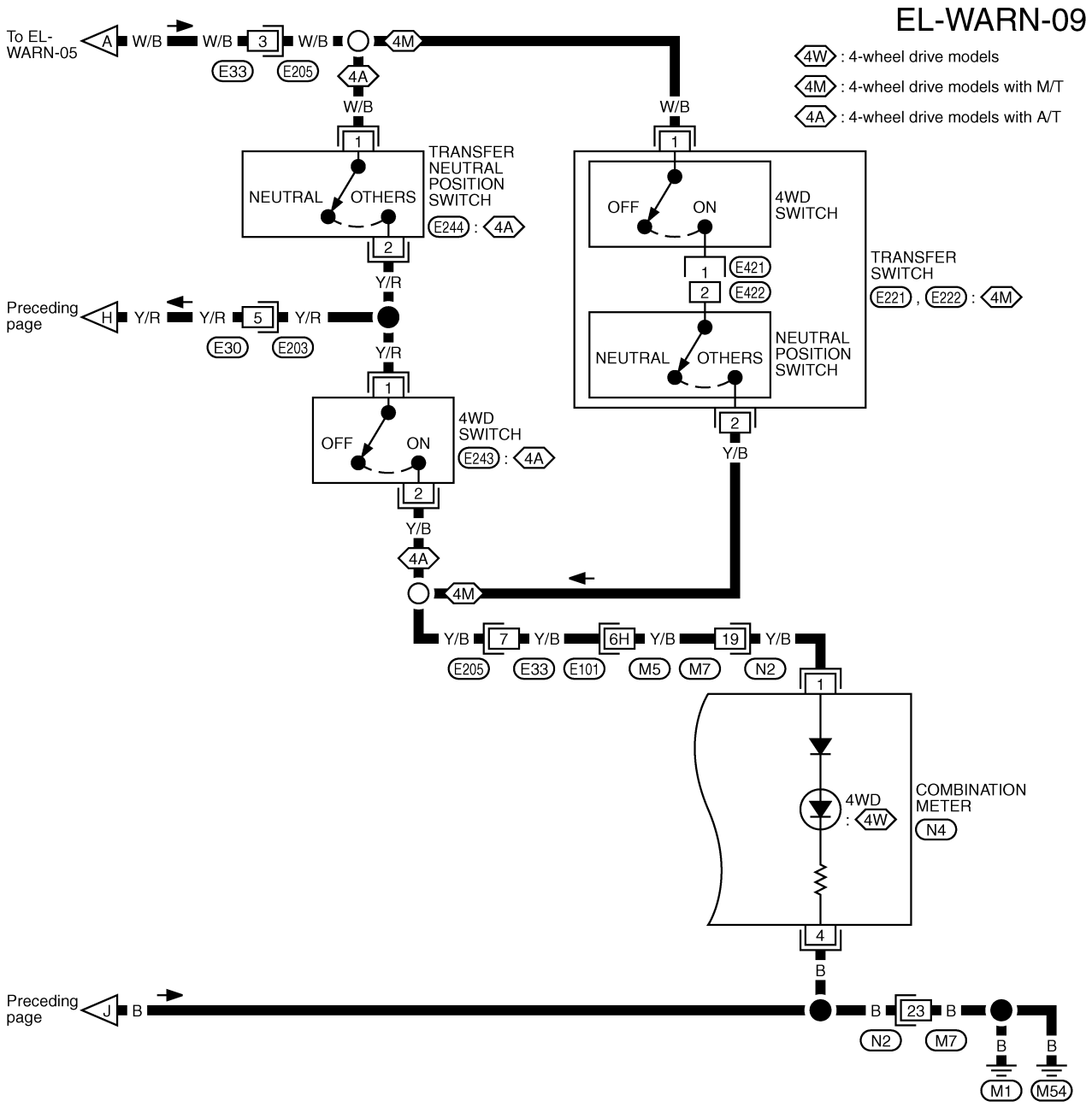


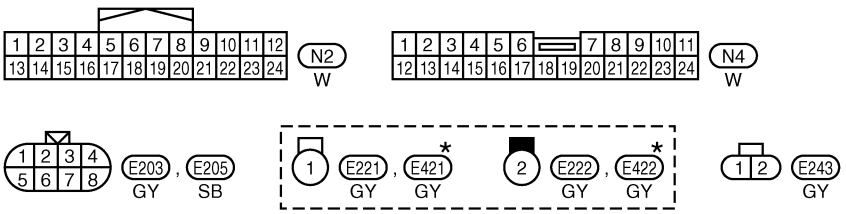


Refer to last page (Foldout page).
M5 , E101
E4

GEL145B

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

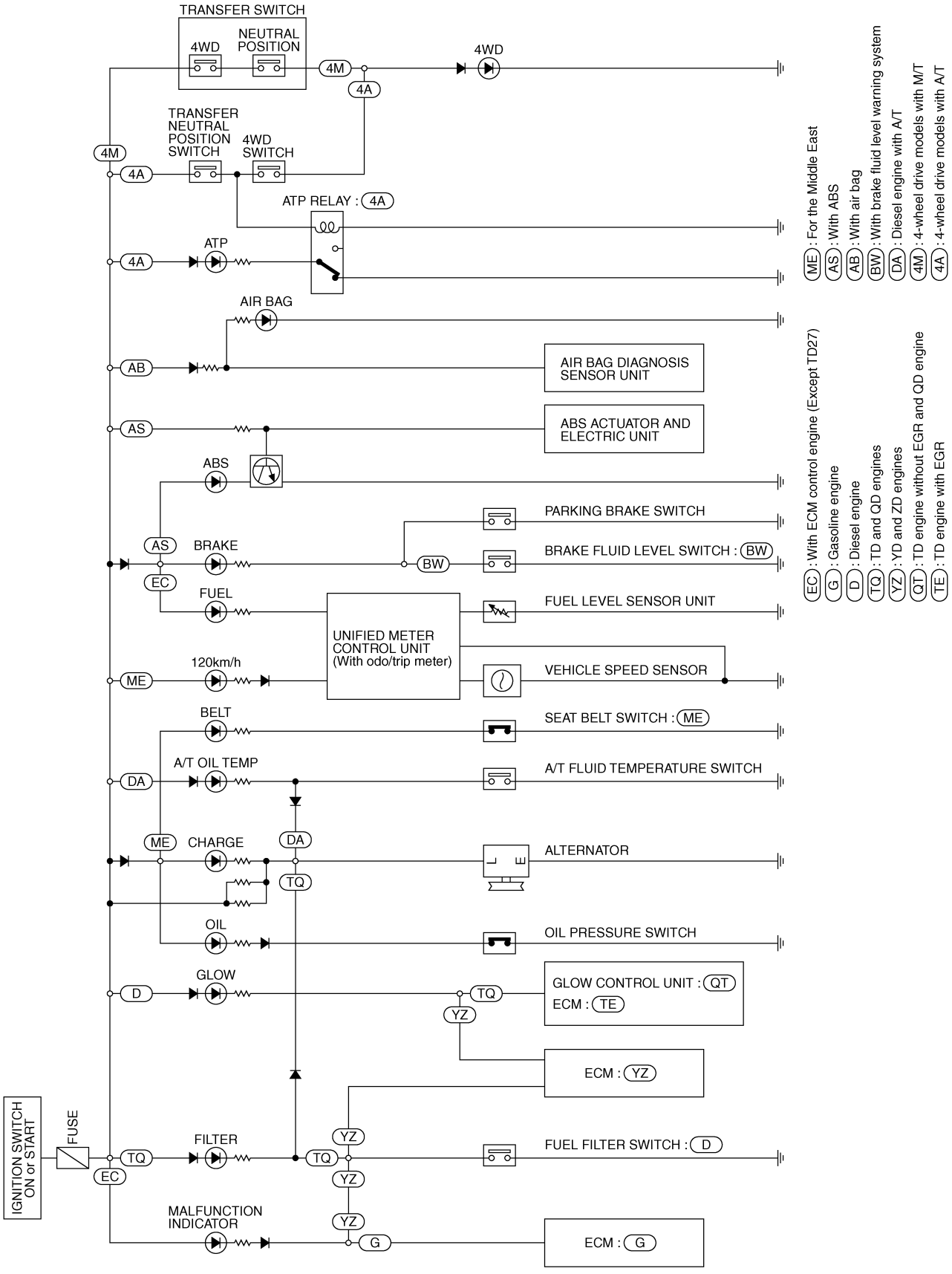




Refer to last page (Foldout page).
M5 , E101

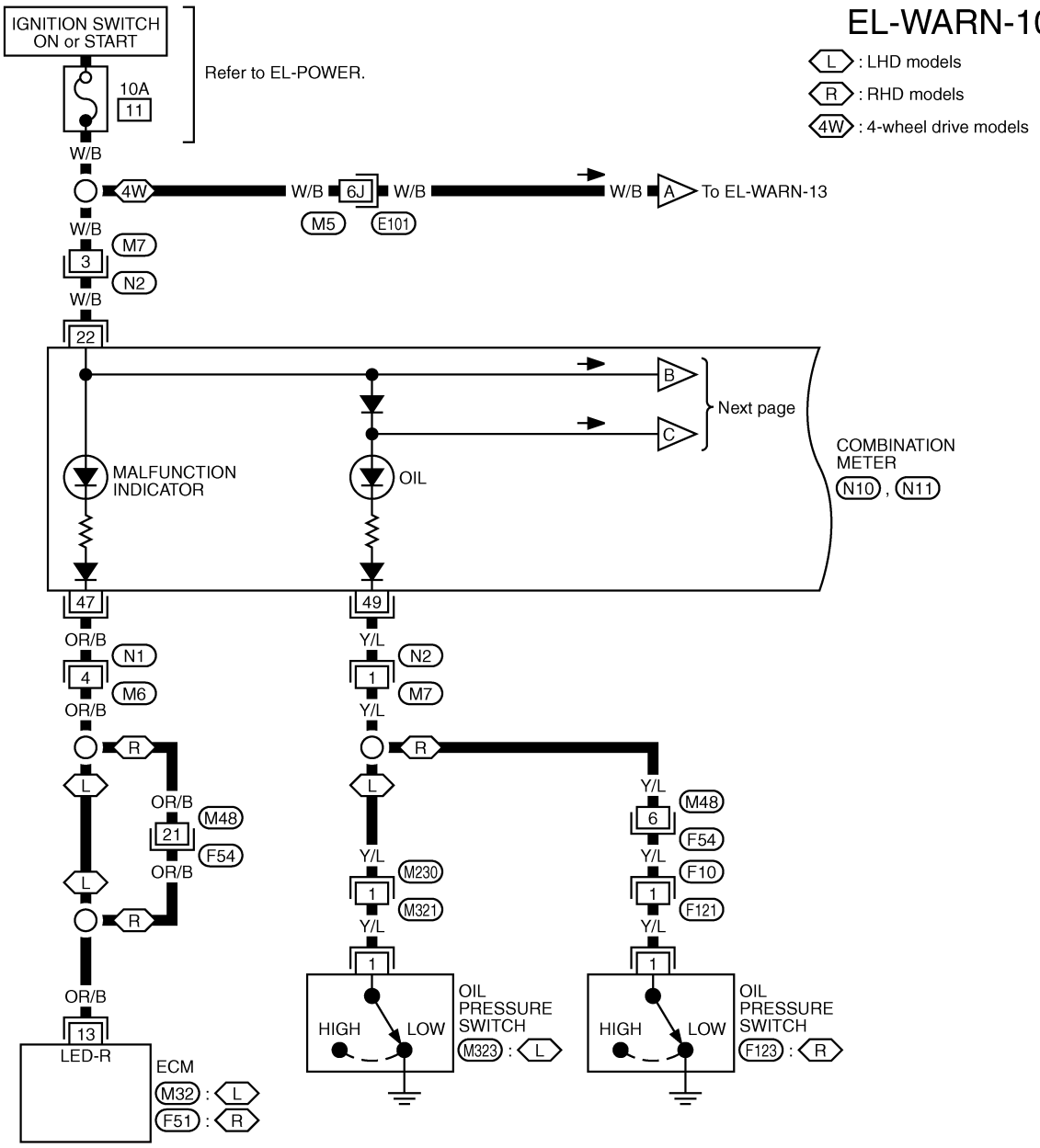
GEL146B

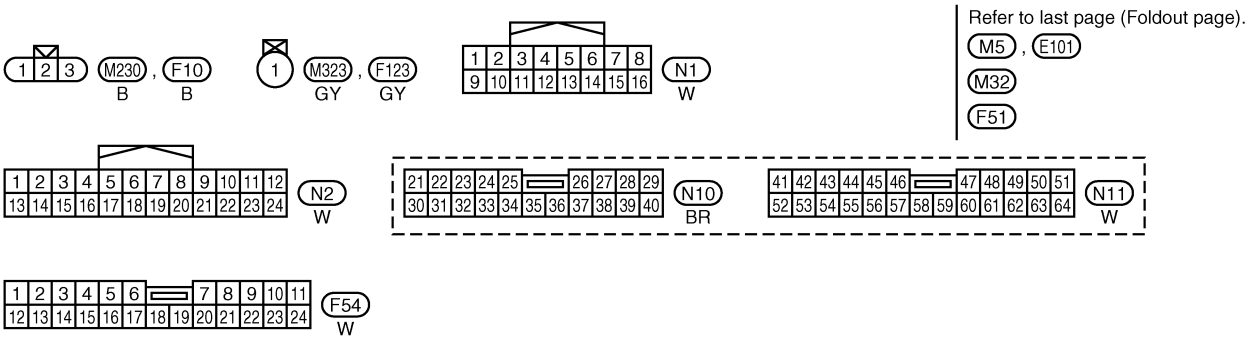
Schematic/Without Tachometer



GEL147B

Wiring Diagram — WARN —/Gasoline Engine without Tachometer





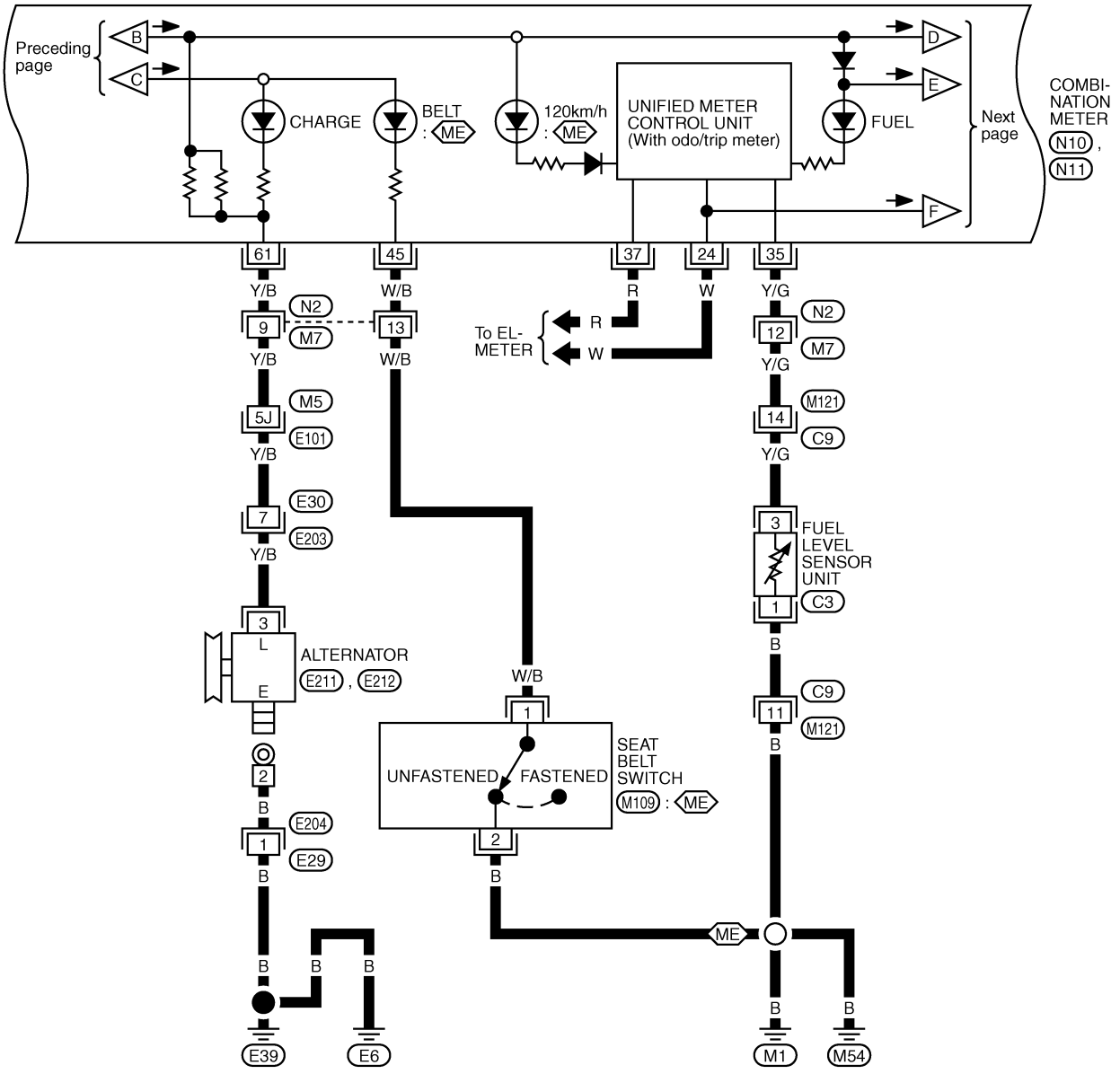
Refer to last page (Foldout page).
M5 , E101
M32
F51

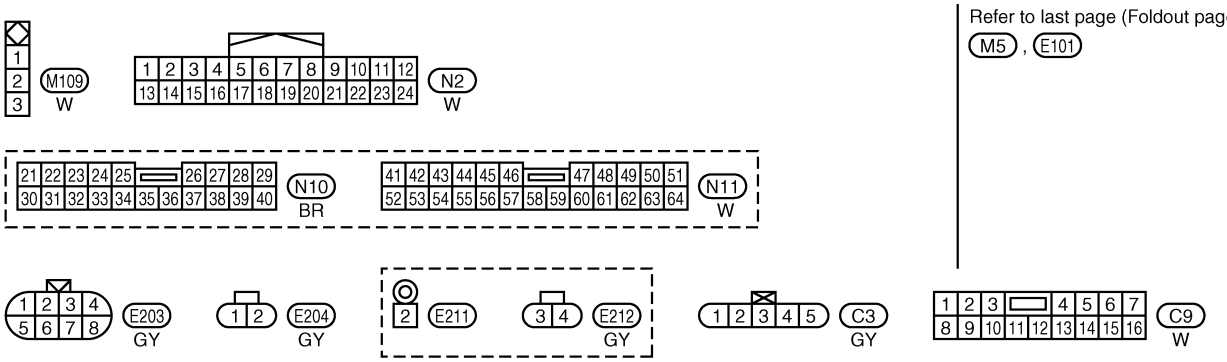
GEL148B

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

EL-WARN-11

ME : For the Middle East





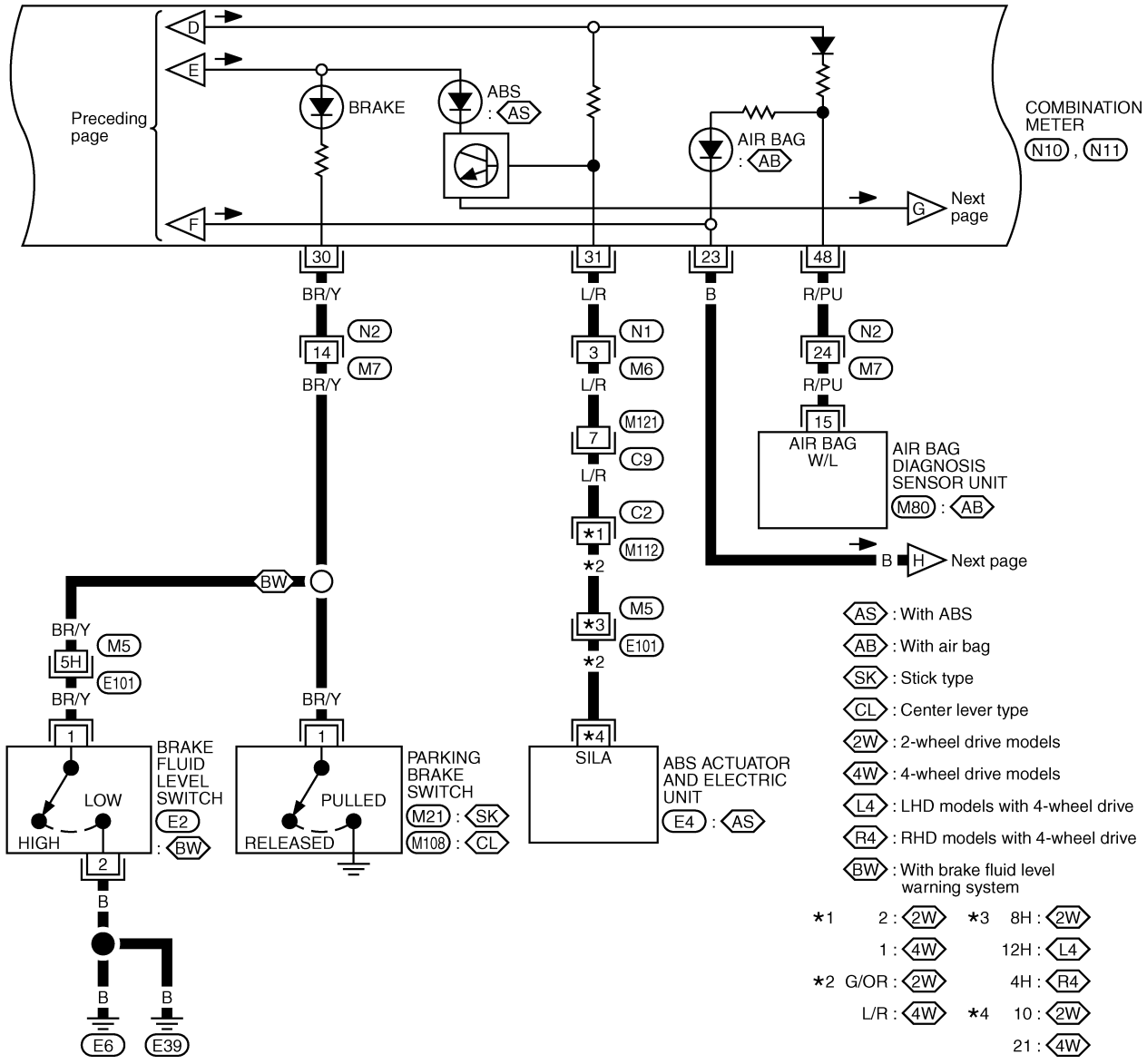
Refer to last page (Foldout page).

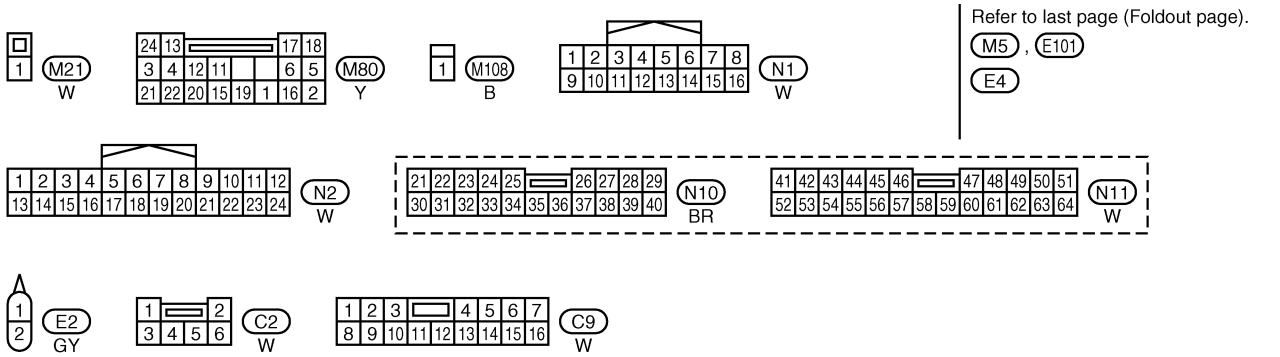
M5 , E101

GEL149B

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

EL-WARN-12

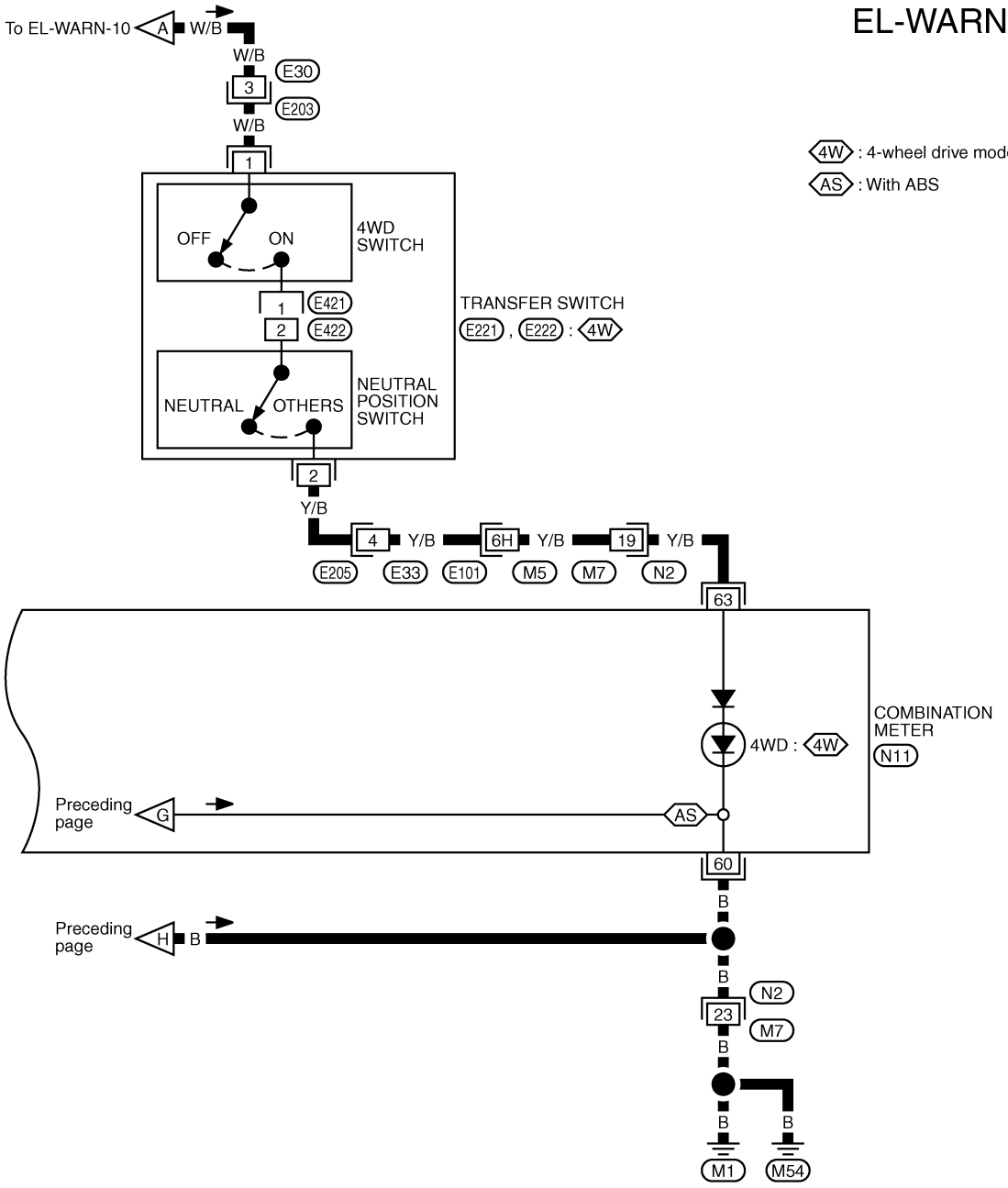




GEL150B

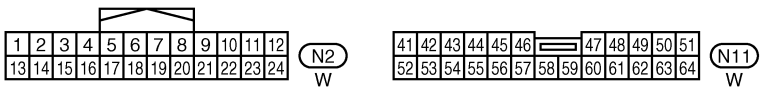
Wiring Diagram — WARN —/Gasoline Engine without Tachometer (Cont'd)

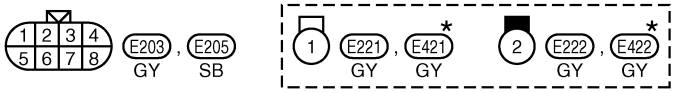
EL-WARN-13



4W : 4-wheel drive models

AS : With ABS





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

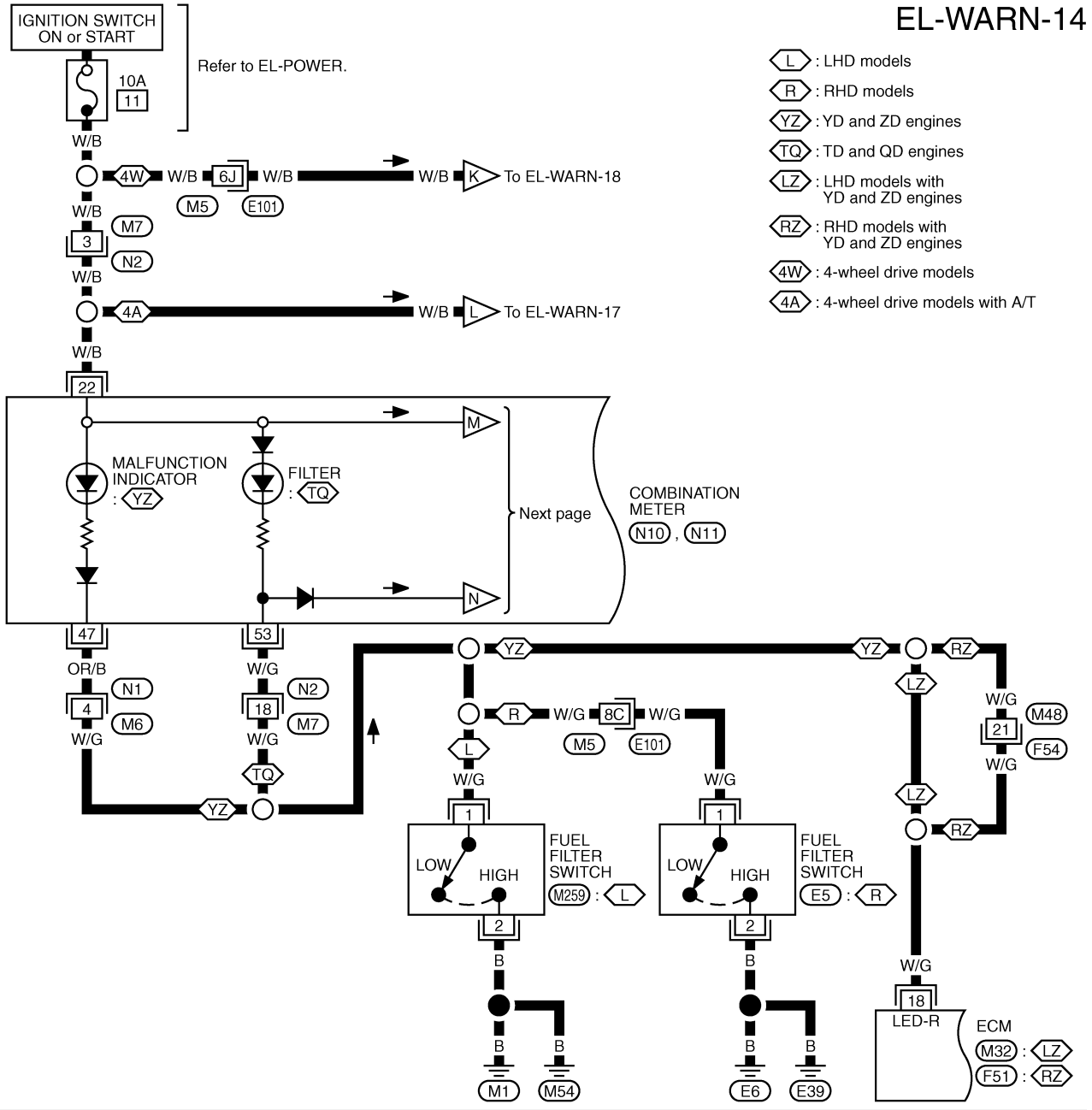
Refer to last page (Foldout page).

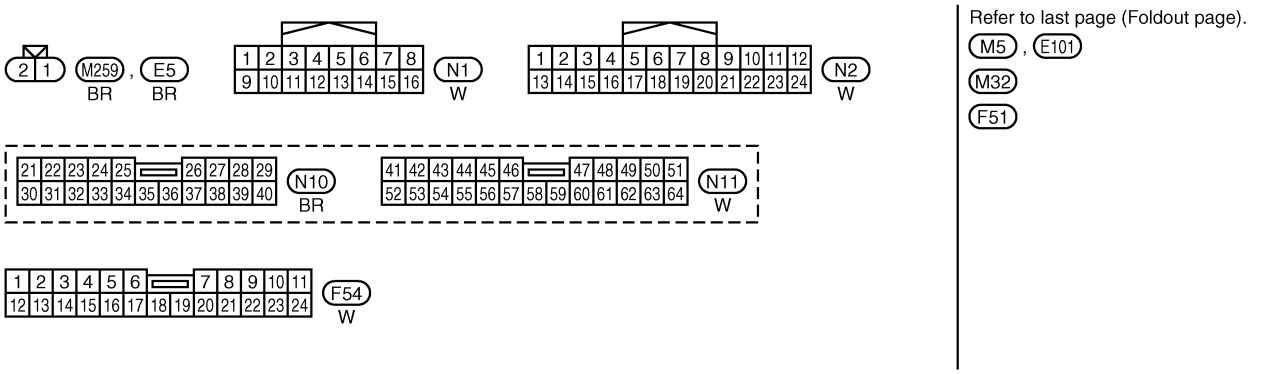
M5 , E101

GEL151B

Wiring Diagram — WARN —/Diesel Engine without Tachometer

EL-WARN-14





Refer to last page (Foldout page).

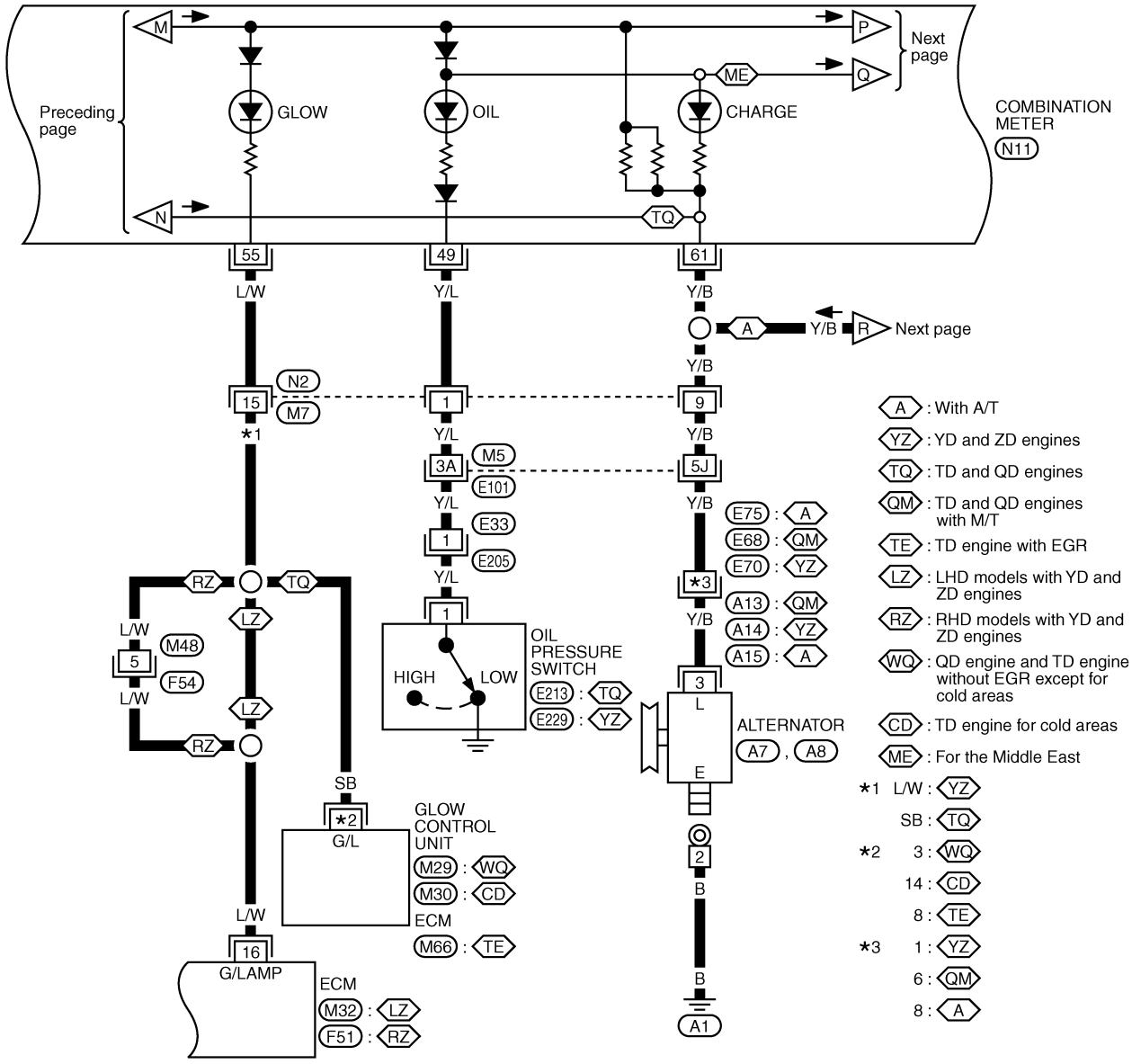
M5 , E101

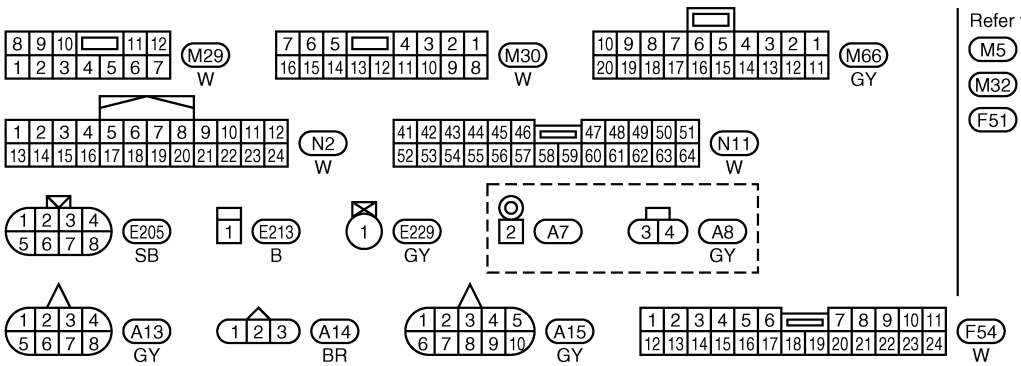
M32

F51

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

EL-WARN-15



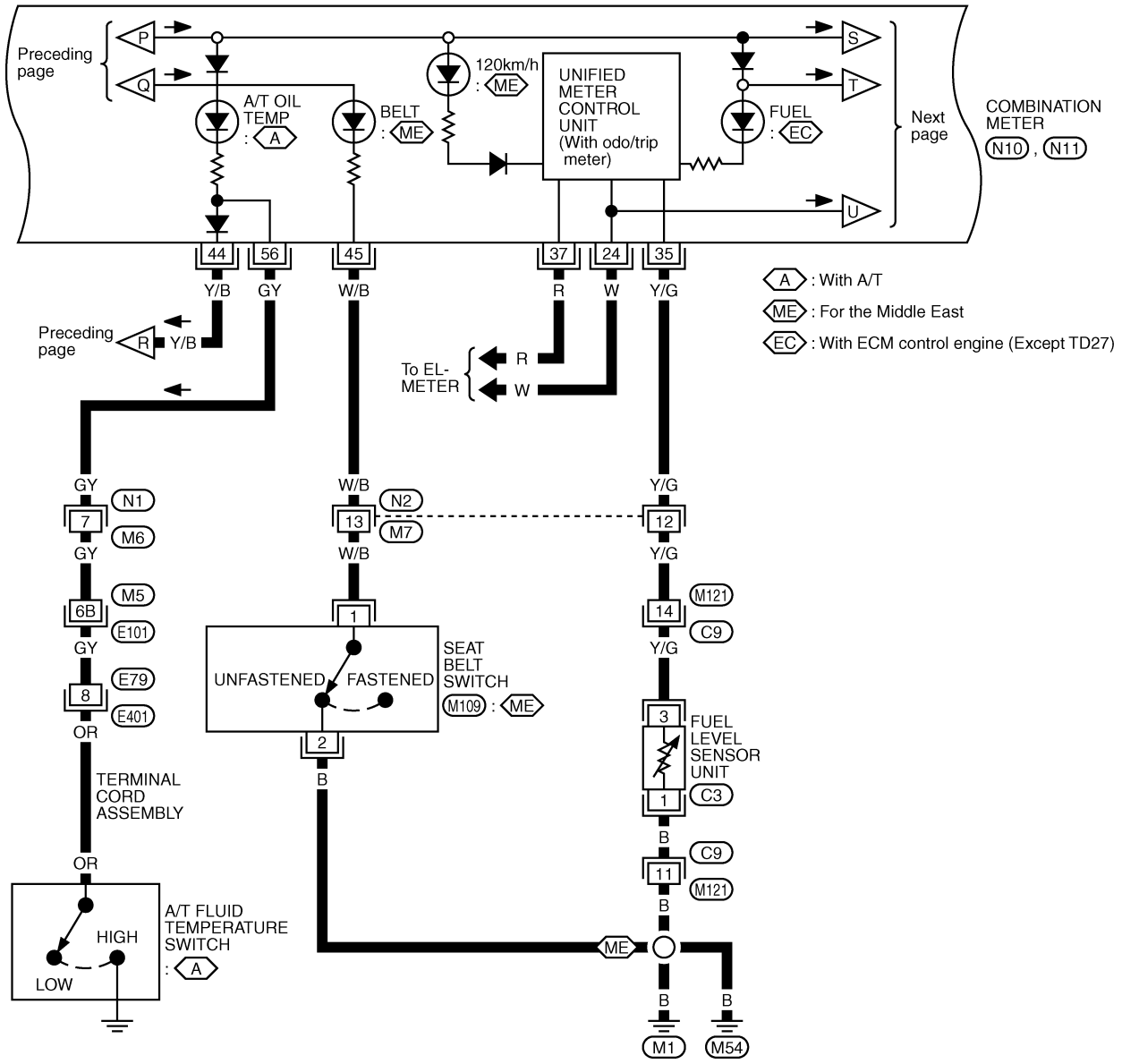


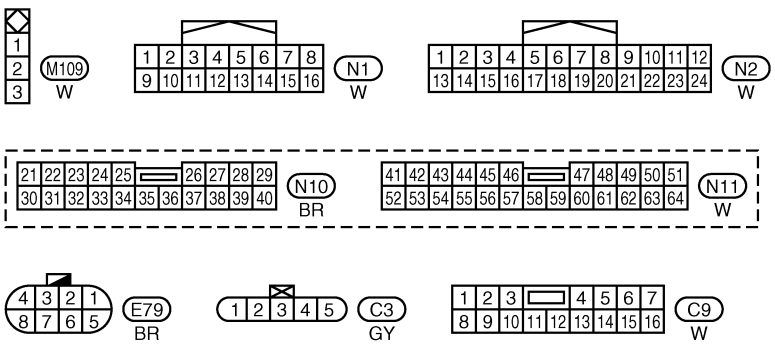
Refer to last page (Foldout page).
M5 , E101
M32
F51

GEL153B

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

EL-WARN-16

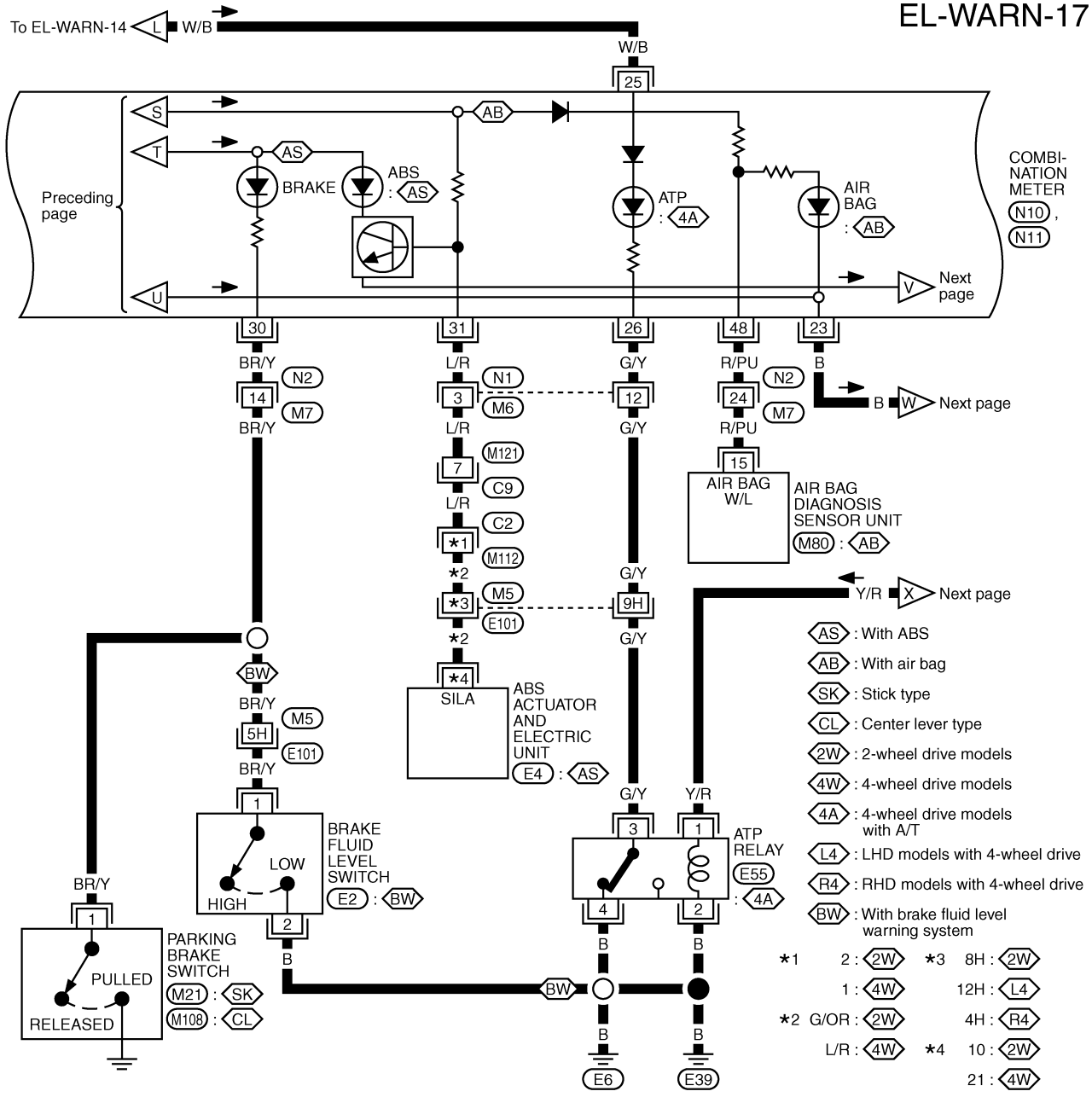


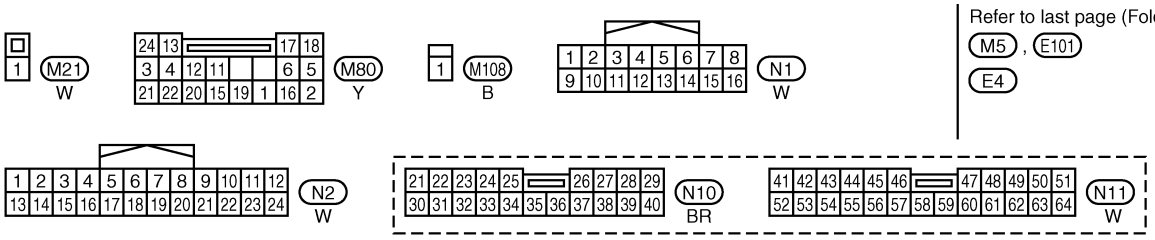


Refer to last page (Foldout page).
M5 , E101

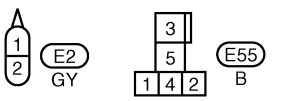
GEL154B

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



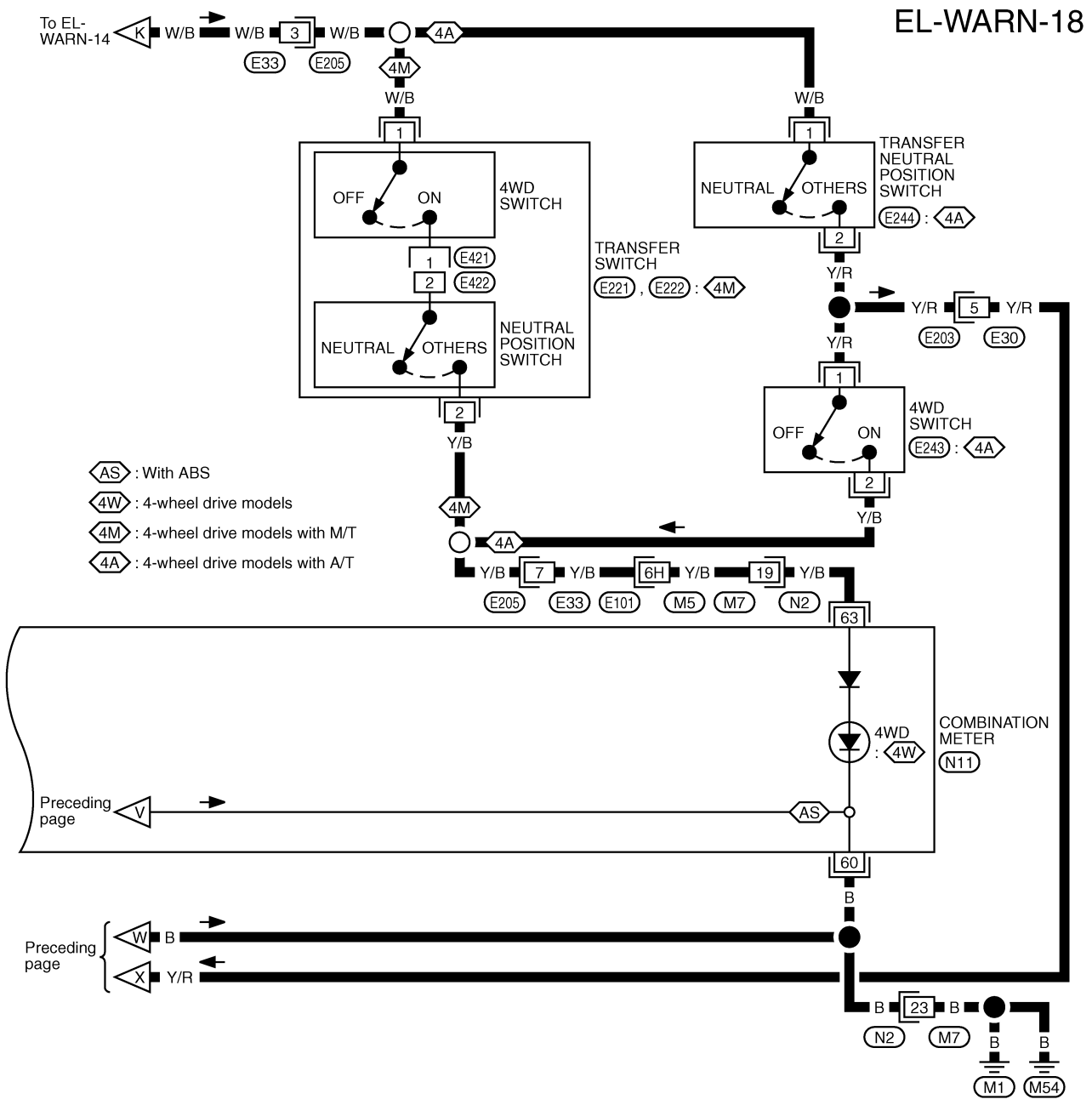


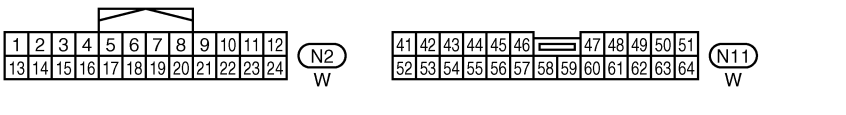
Refer to last page (Foldout page).
M5 , E101
E4



GEL155B

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





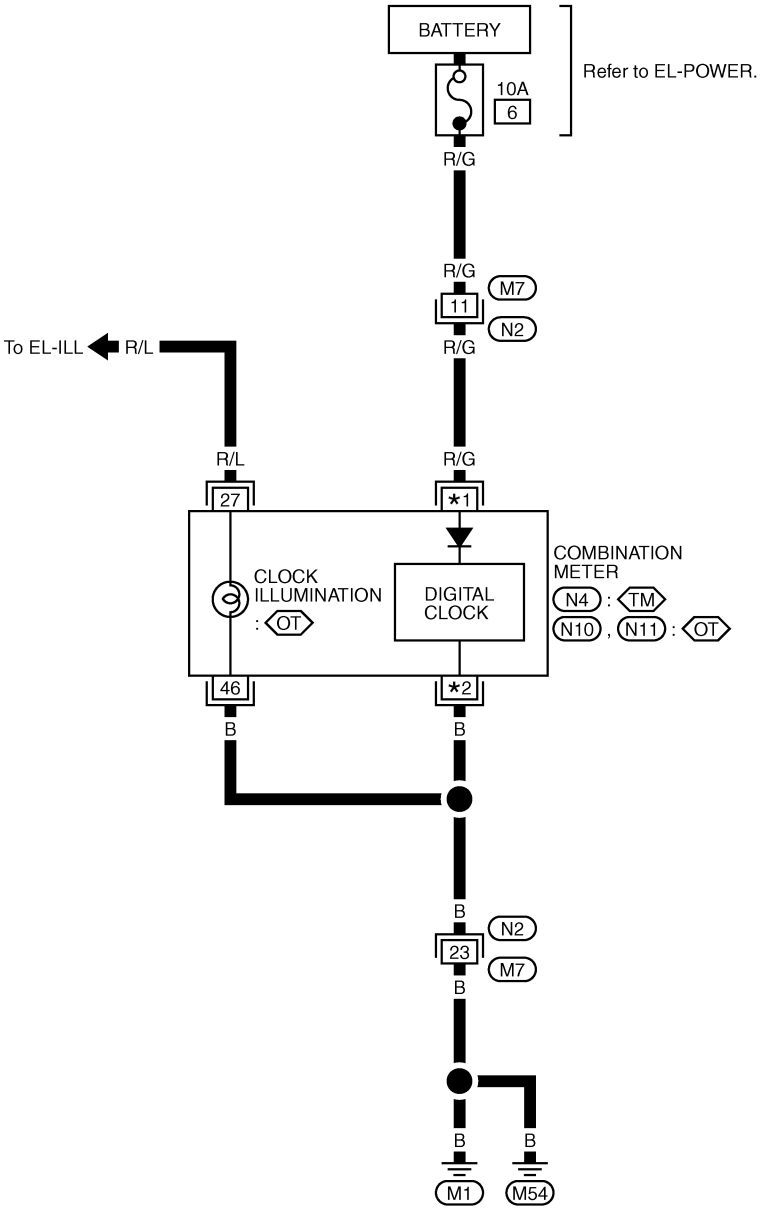
∗: This connector is not shown in "HARNESS LAYOUT".

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

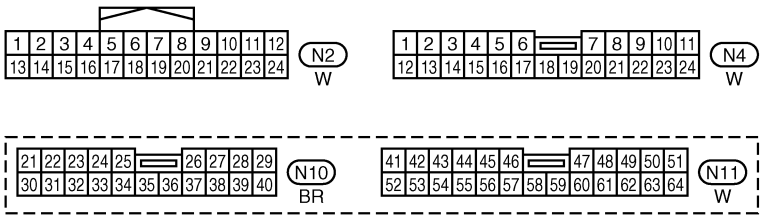
GEL156B

Wiring Diagram — CLOCK —

EL-CLOCK-01



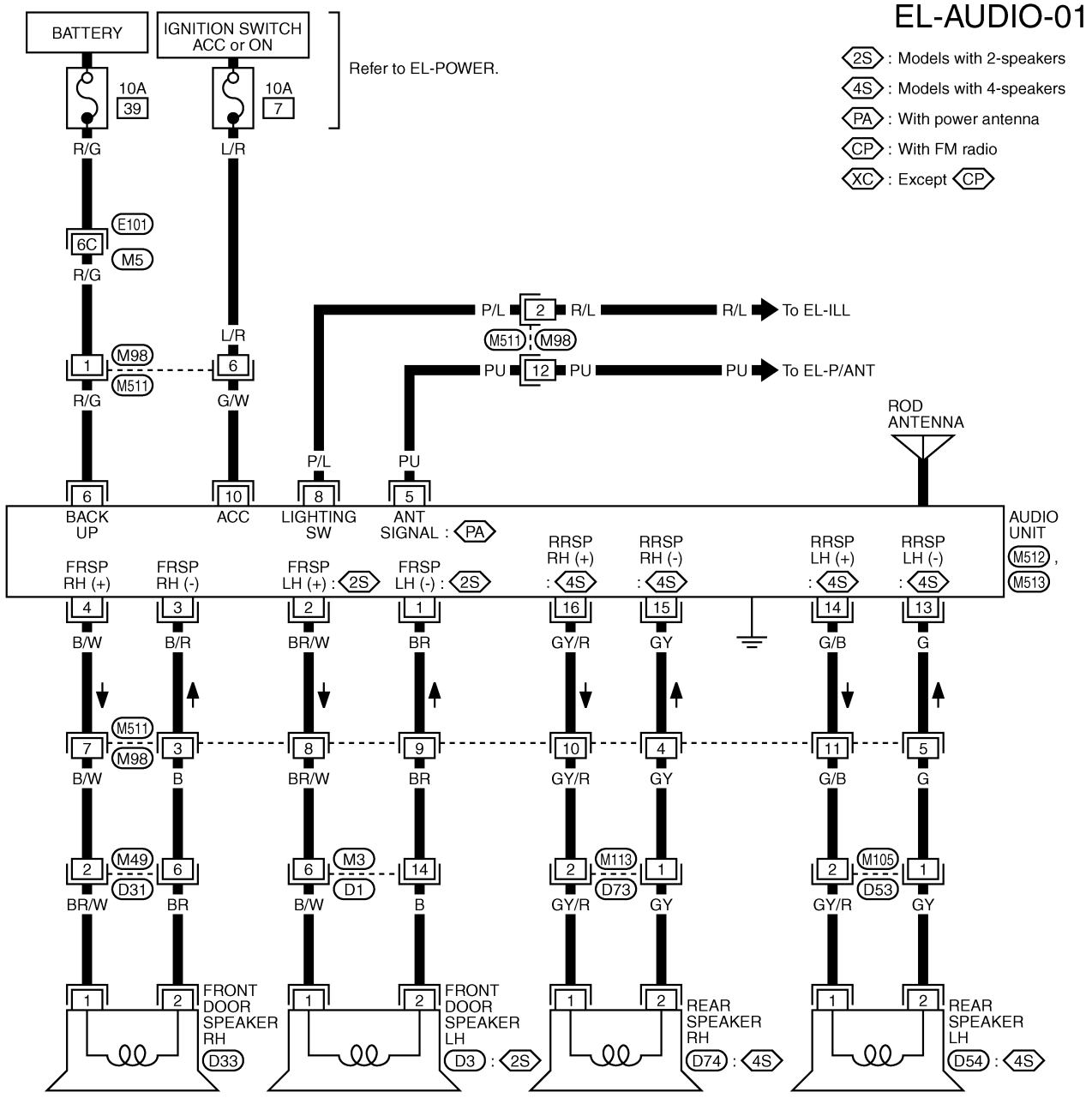
TM : With tachometer
OT : Without tachometer
*1 18 : TM
21 : OT
*2 24 : TM
23 : OT

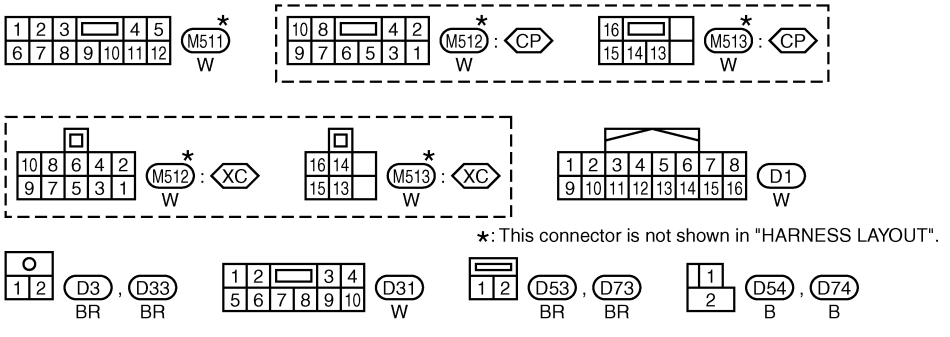


GEL157B

Wiring Diagram — AUDIO —/LHD Models

WITH 2 OR 4 SPEAKERS



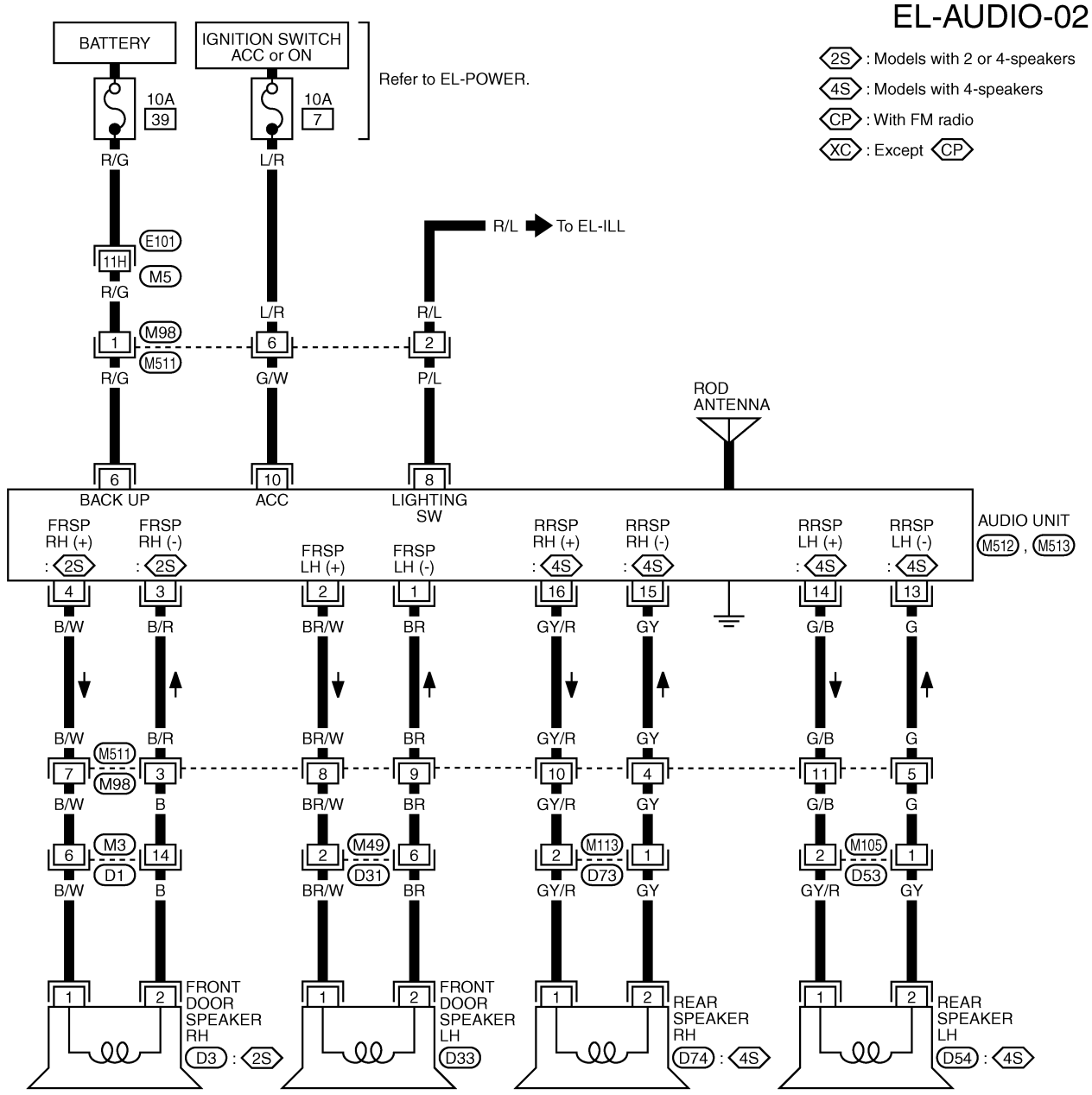


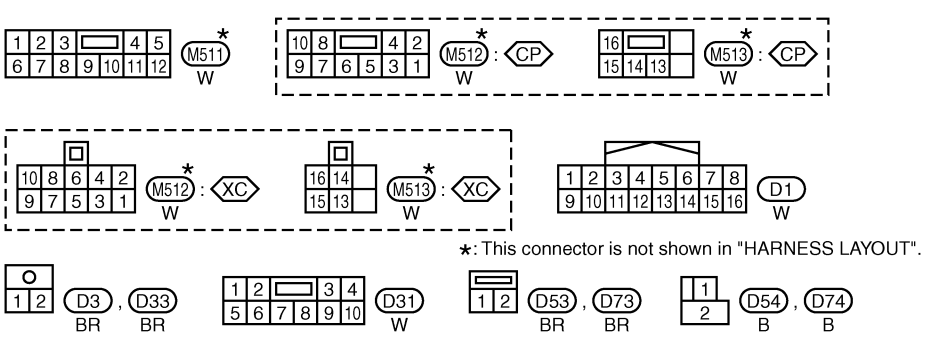
Refer to last page (Foldout page).
M5 , E101

GEL159B

Wiring Diagram — AUDIO —/RHD Models

EL-AUDIO-02





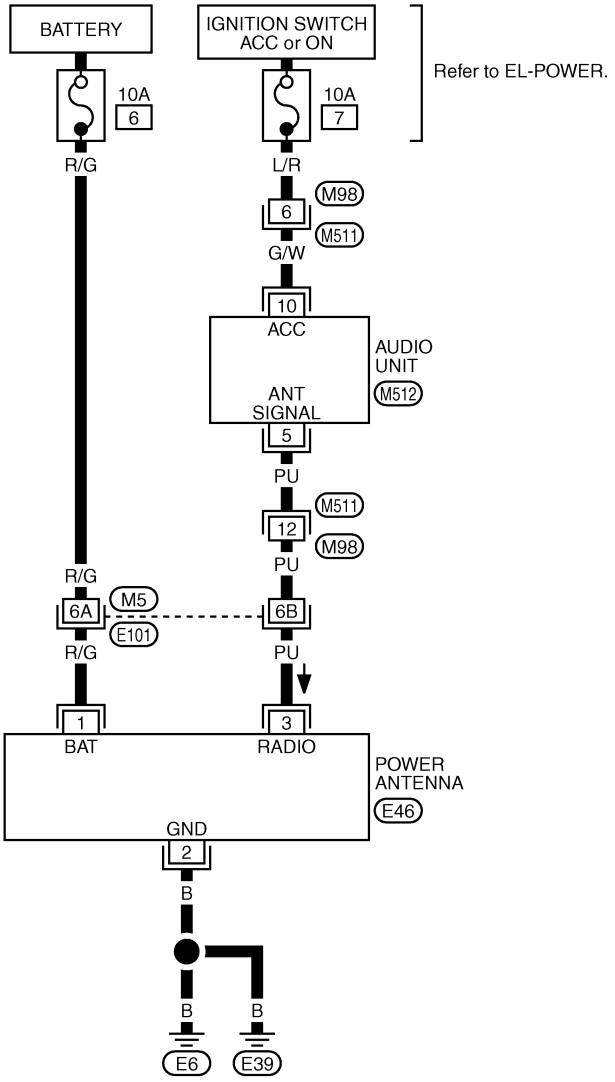
Refer to last page (Foldout page).
M5 , E101

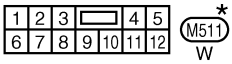
GEL160B

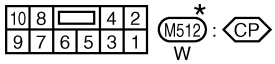
Power Antenna/Wiring Diagram — P/ANT —

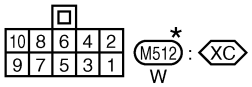
EL-P/ANT-01

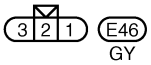
CP : With FM radio
XC : Except CP











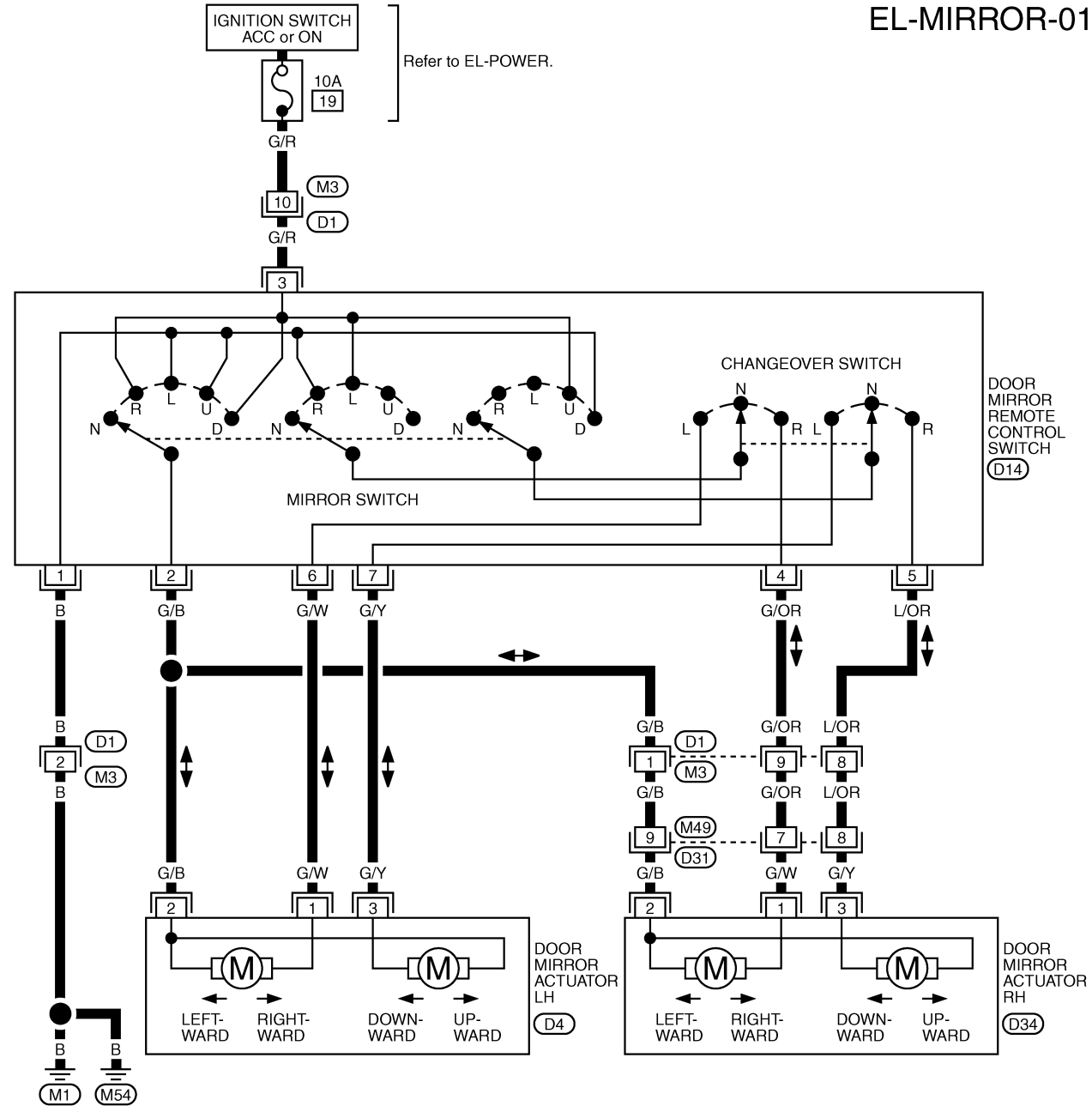
∗: This connector is not shown in "HARNESS LAYOUT".

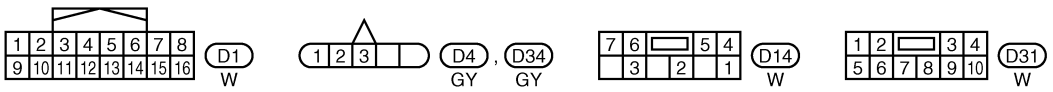
Refer to last page (Foldout page).
M5 , E101

GEL161B

Wiring Diagram — MIRROR —/LHD Models With Sail Mounted Mirror

EL-MIRROR-01

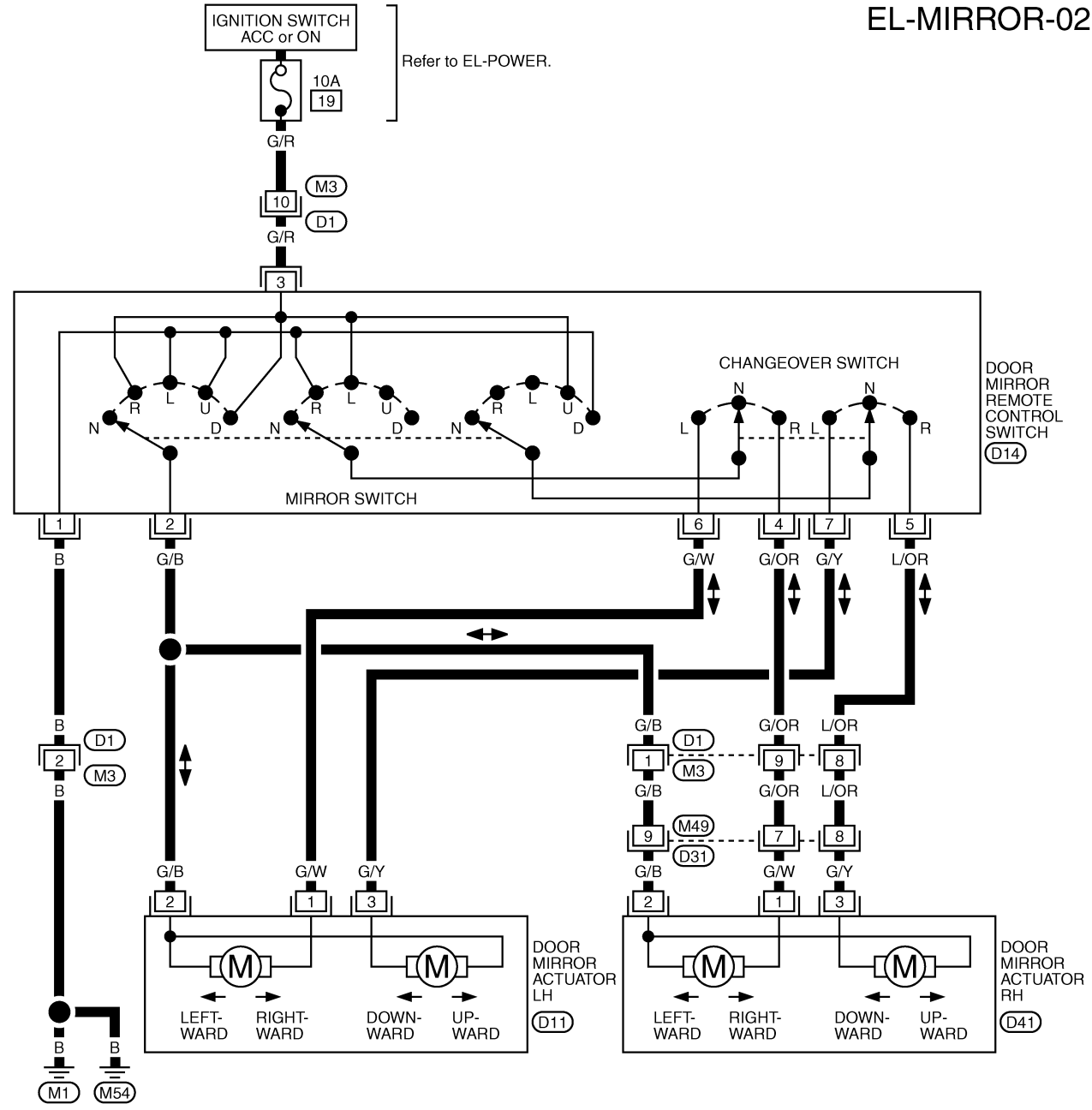


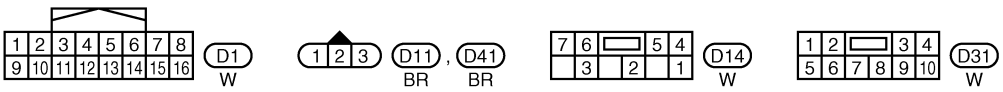


GEL162B

Wiring Diagram — MIRROR —/LHD Models With Door Mounted Mirror

EL-MIRROR-02

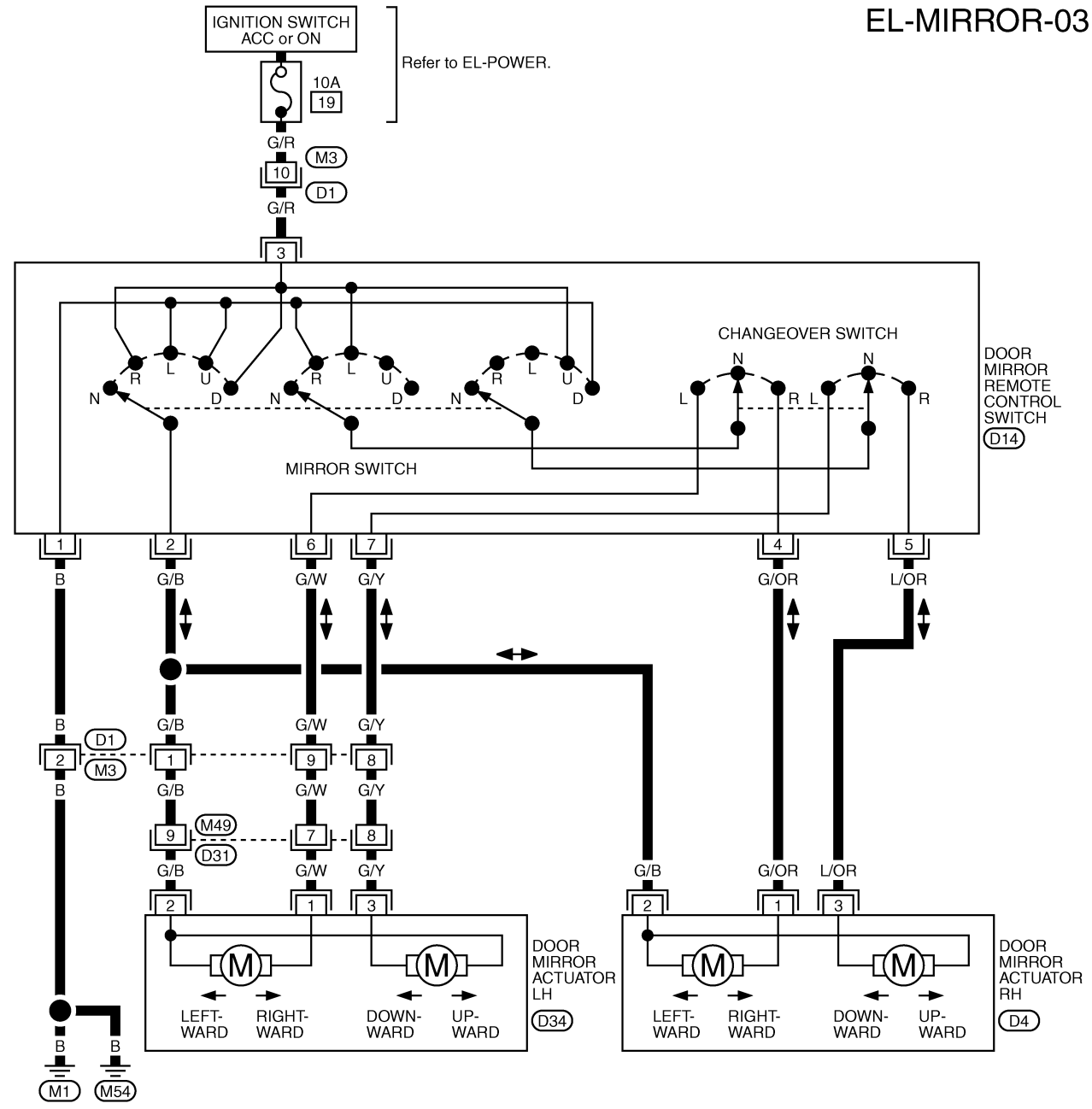


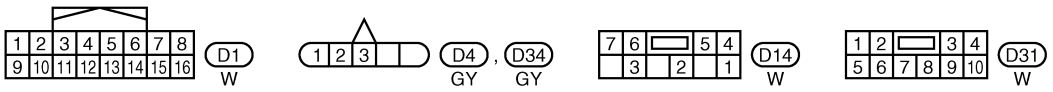


GEL163B

Wiring Diagram — MIRROR —/RHD Models

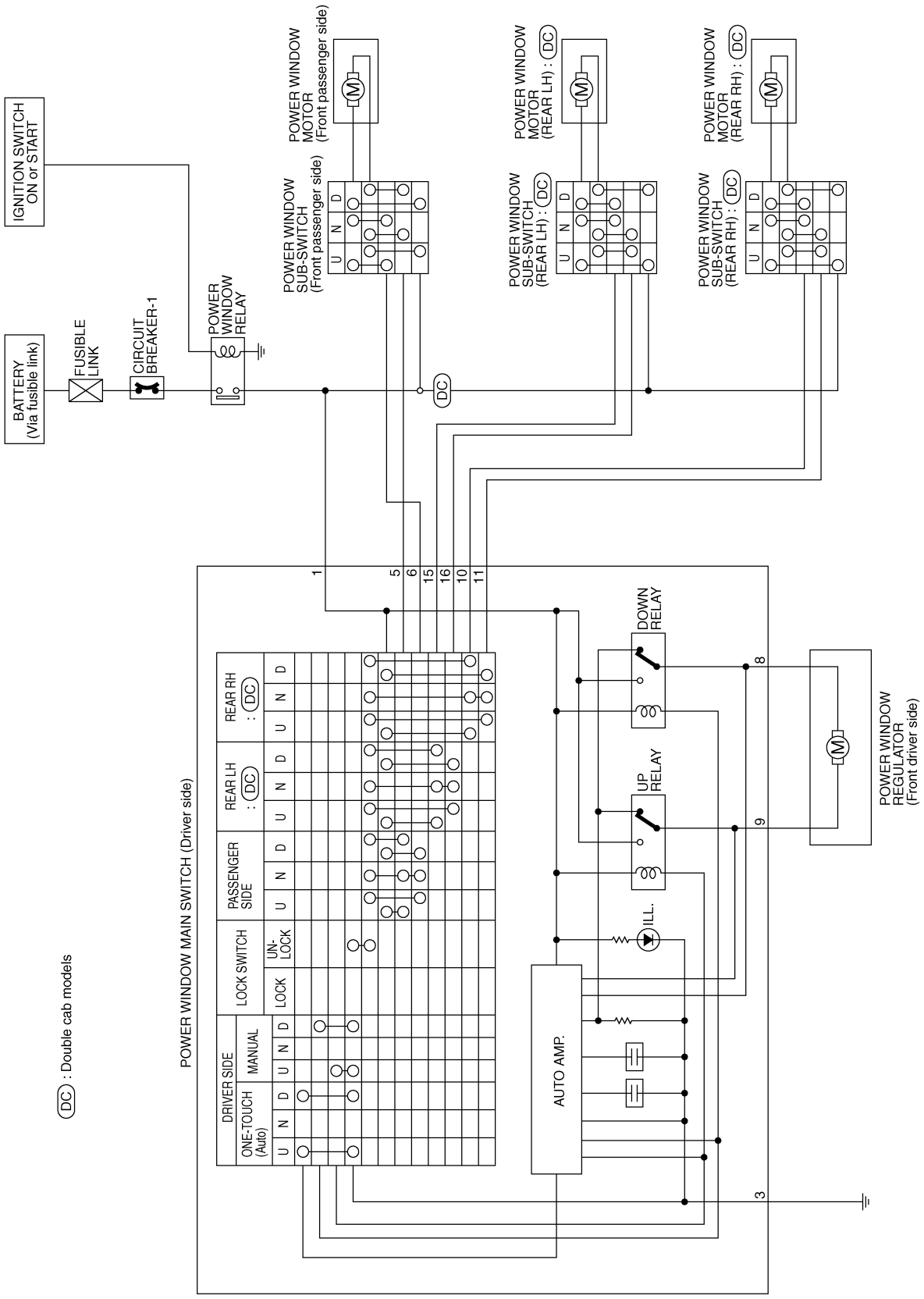
EL-MIRROR-03





GEL164B

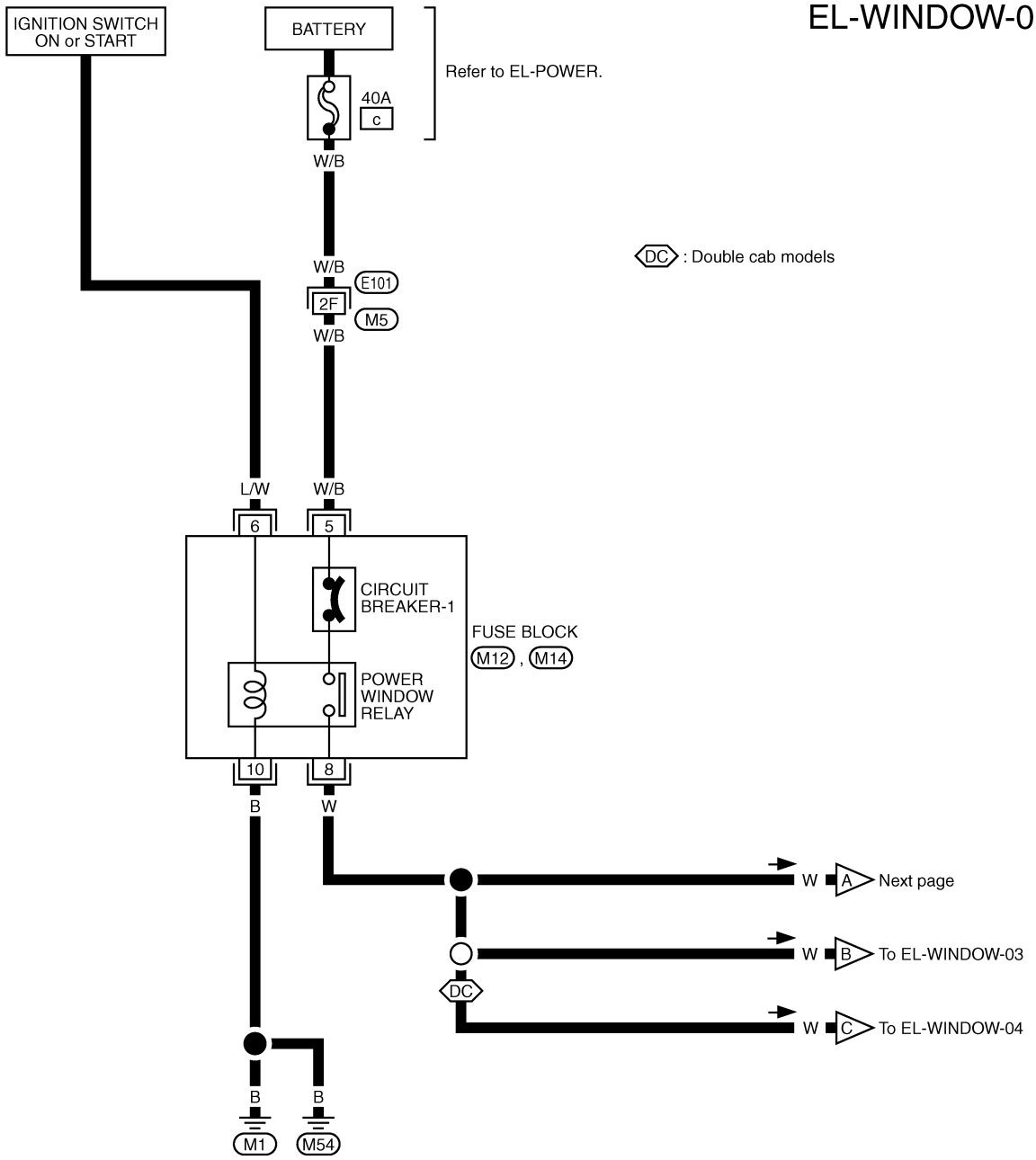
Schematic/Without Interruption Detection Function

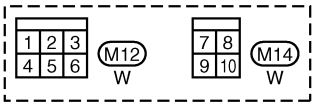


GEL165B

Wiring Diagram — WINDOW —/Without Interruption Detection Function

EL-WINDOW-01

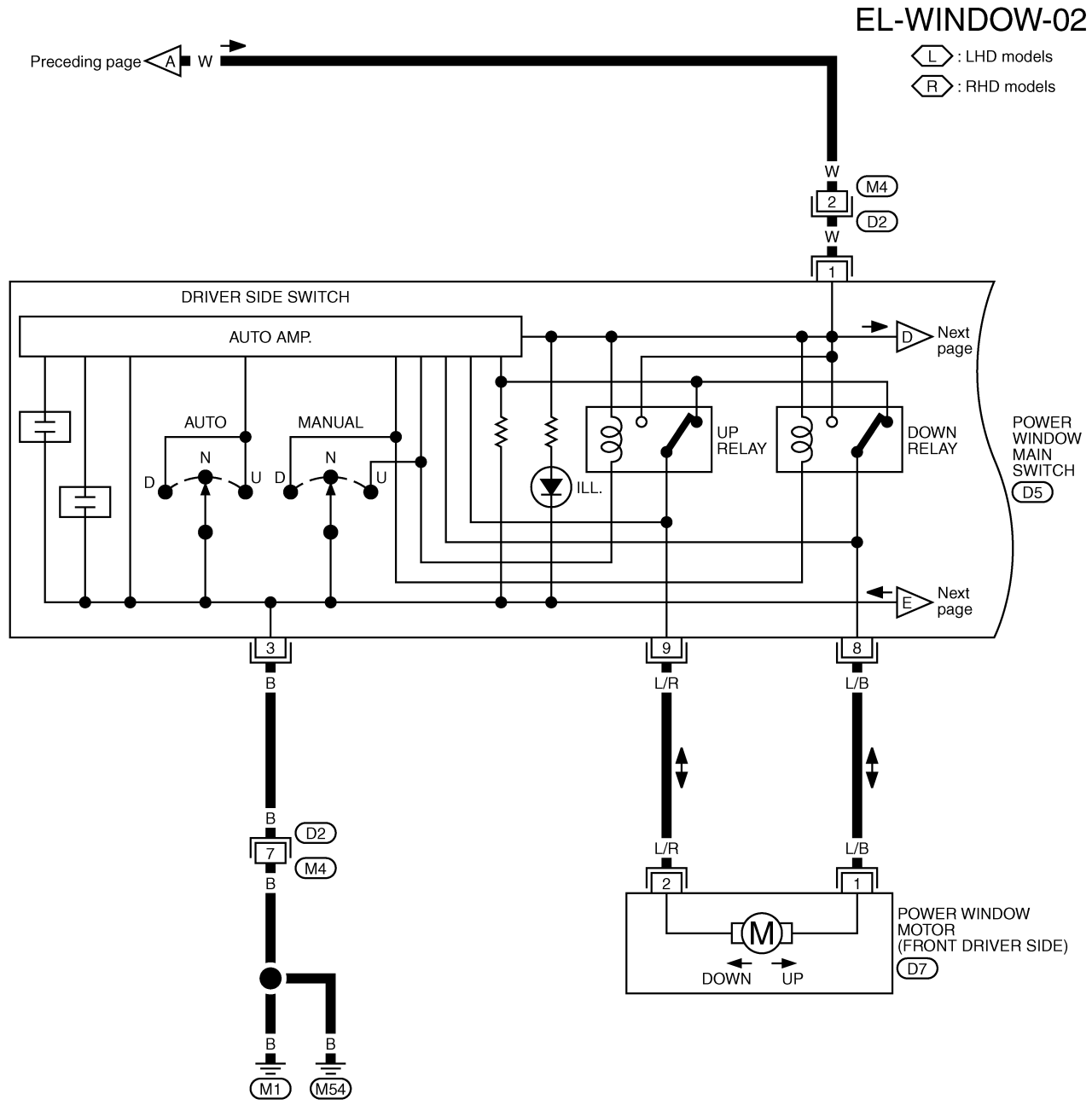


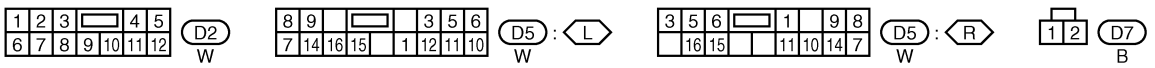


Refer to last page (Foldout page).
M5 , E101

GEL282A

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

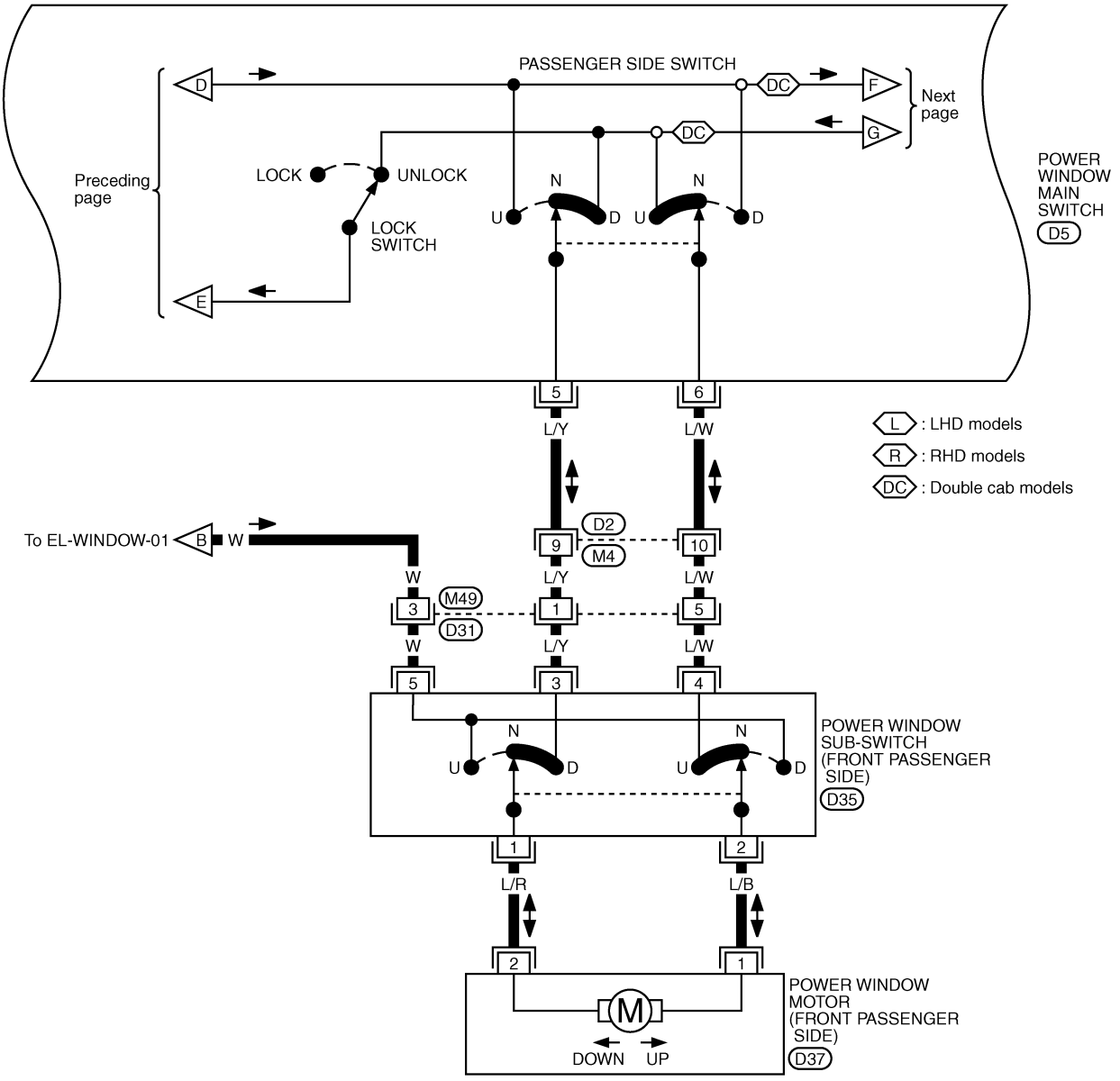


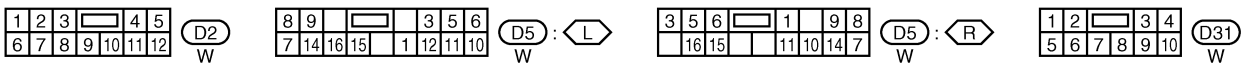


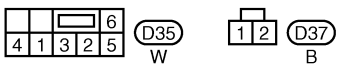
GEL166B

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

EL-WINDOW-03



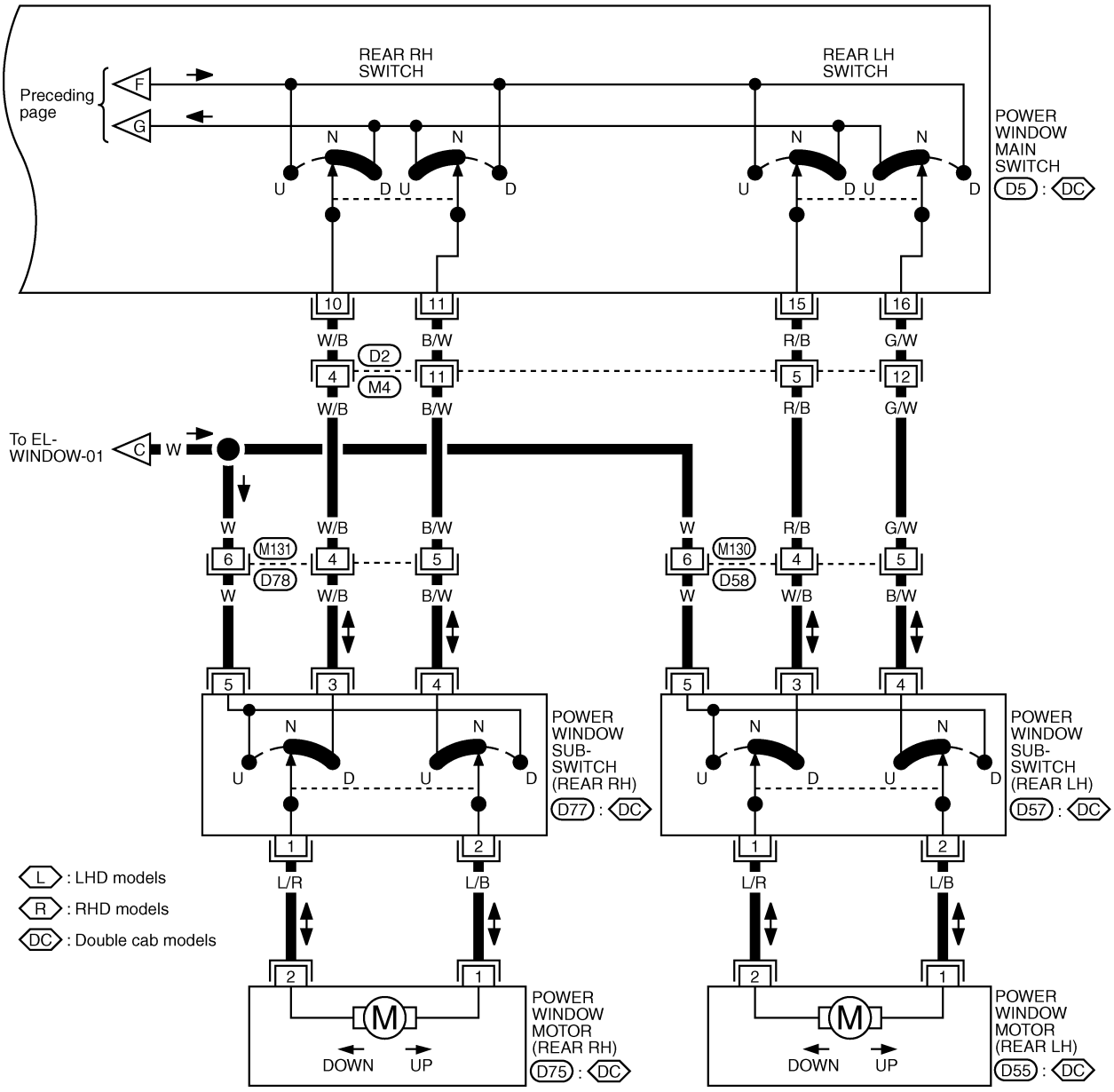


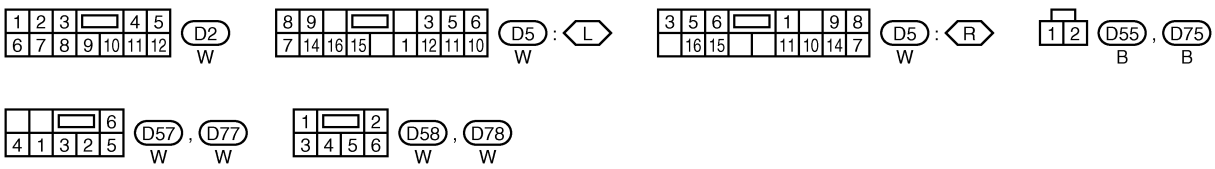


GEL167B

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

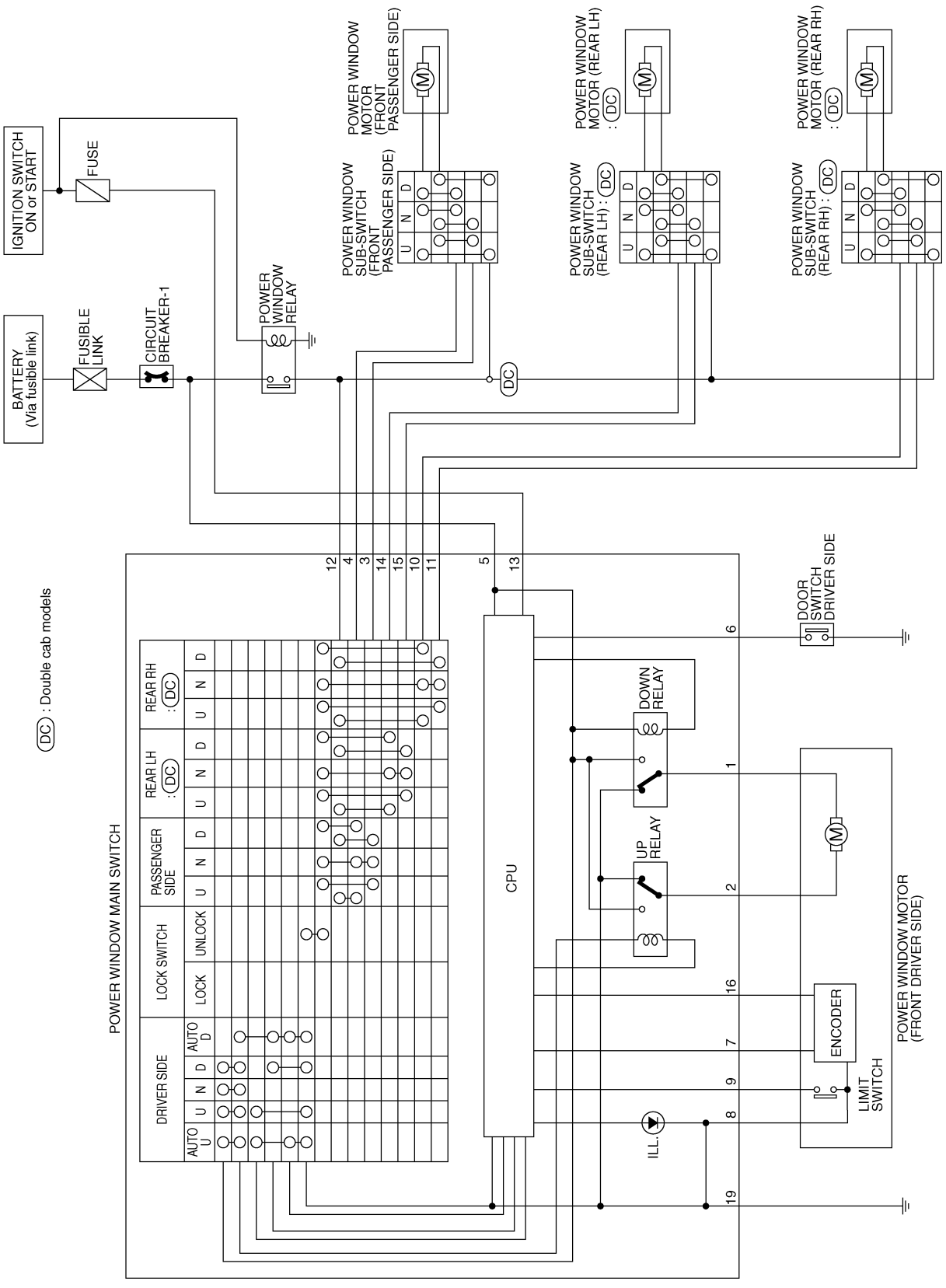
EL-WINDOW-04





GEL168B

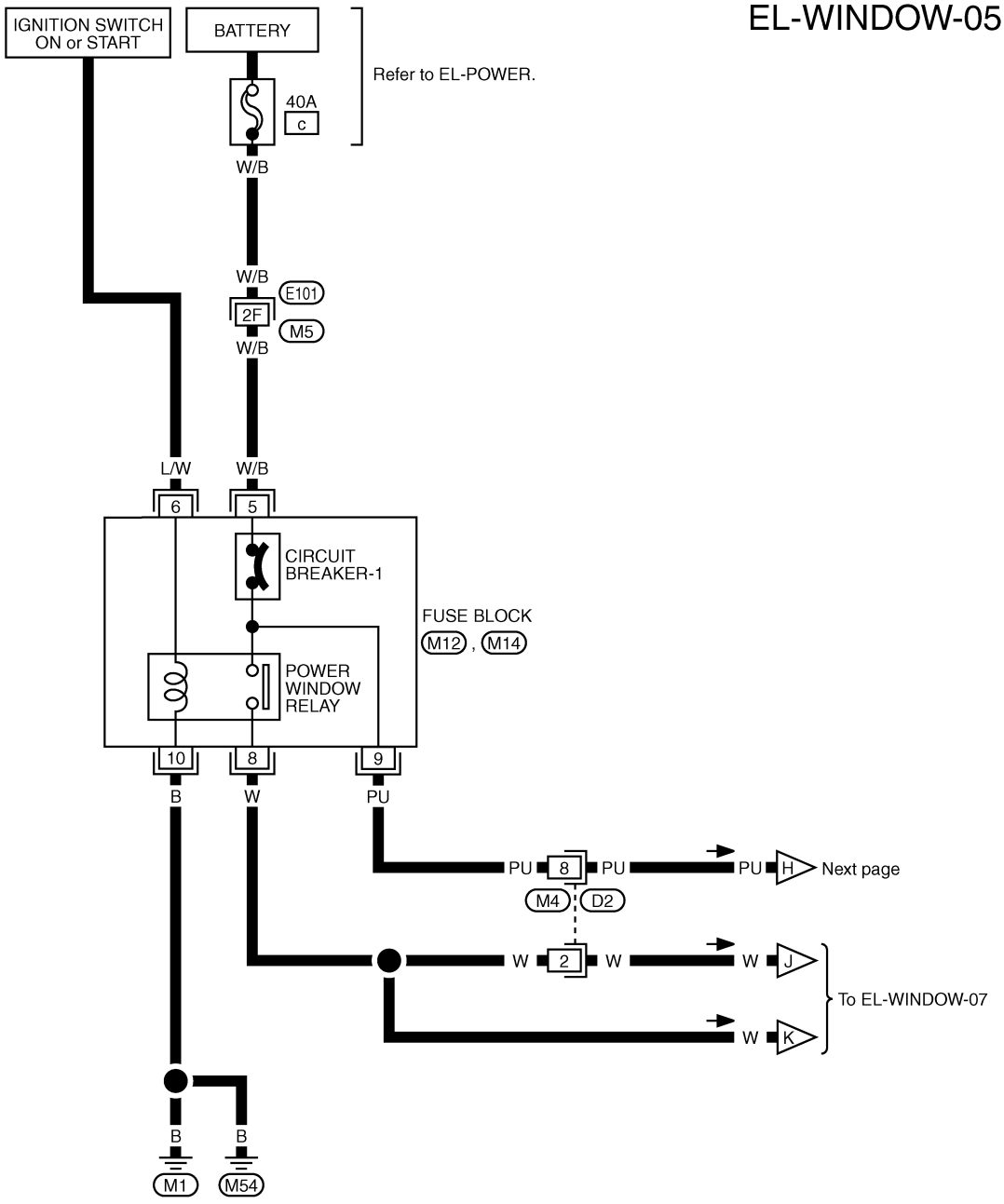
Schematic/With Interruption Detection Function

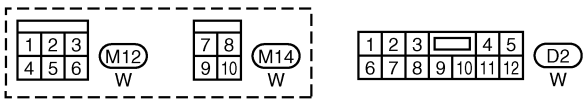


GEL169B

Wiring Diagram — WINDOW —/With Interruption Detection Function

EL-WINDOW-05

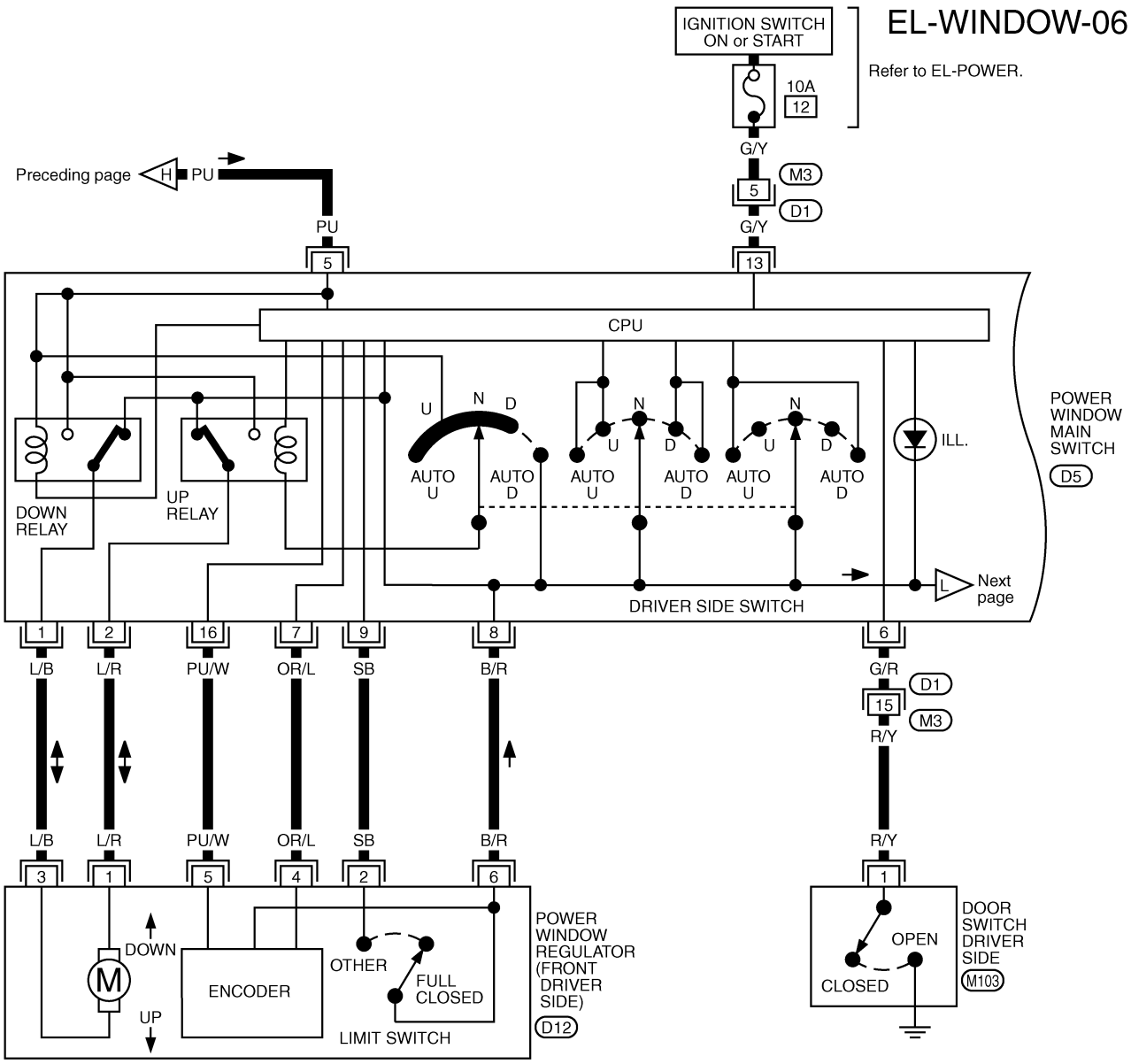


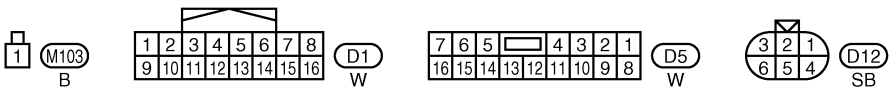


Refer to last page (Foldout page).
M5 , E101

GEL170B

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



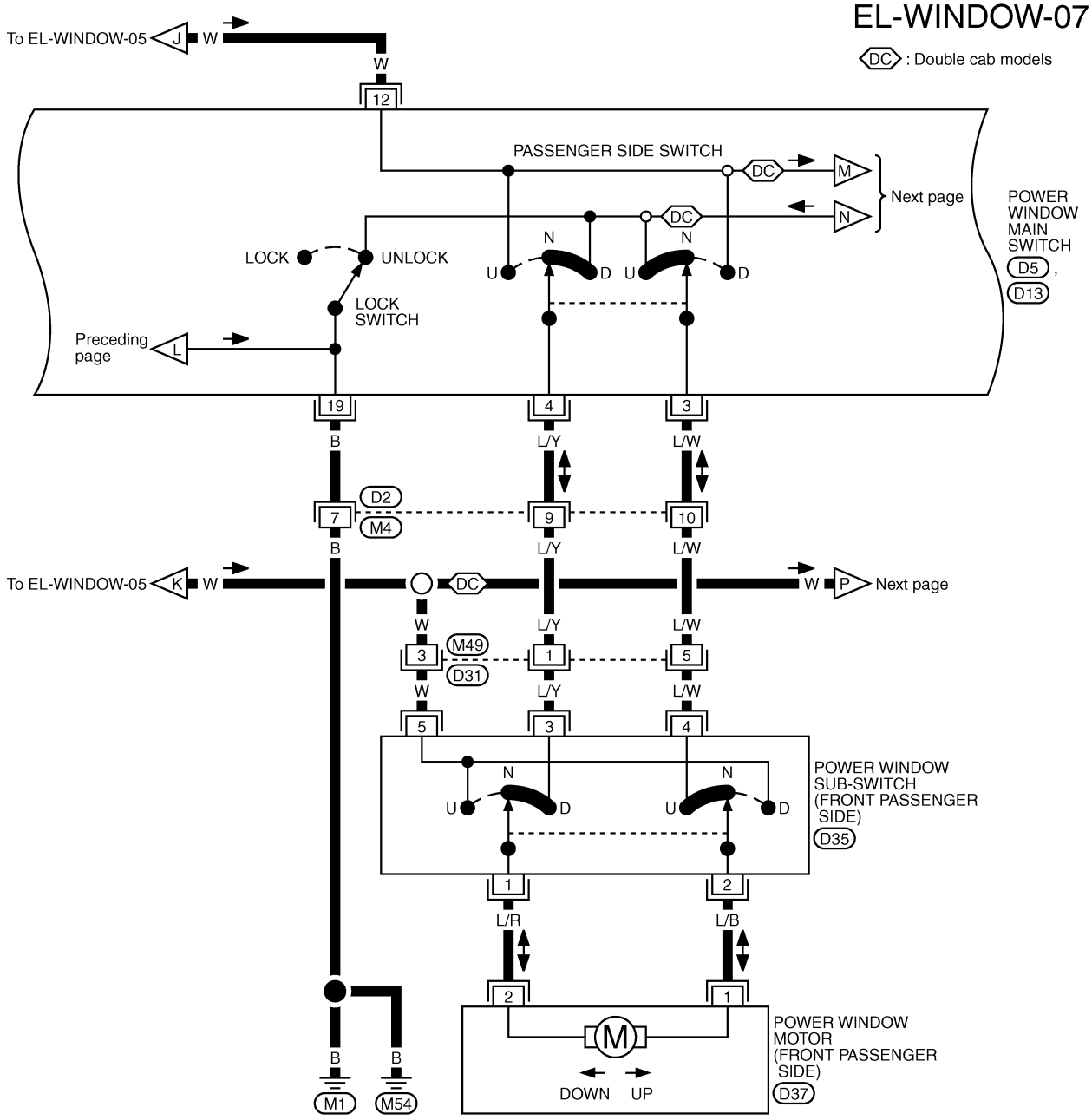


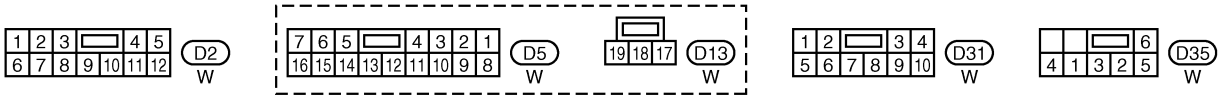
GEL171B

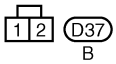
Wiring Diagram — WINDOW —/With Interruption Detection Function (Cont'd)

EL-WINDOW-07

DC : Double cab models



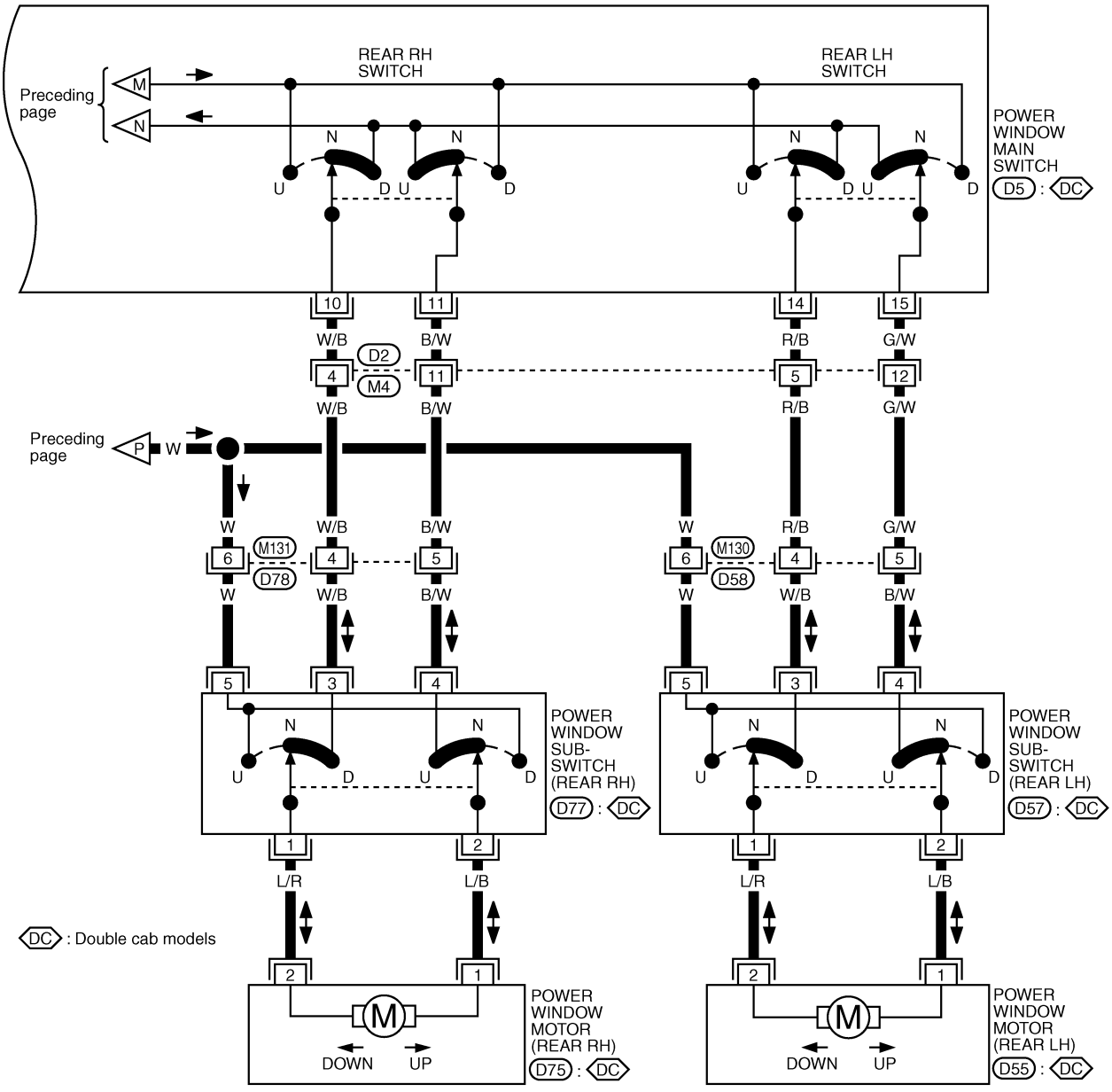


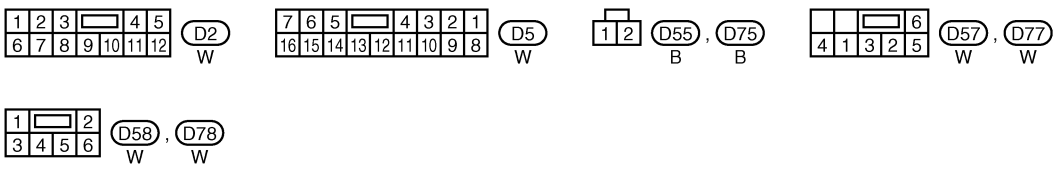


GEL172B

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

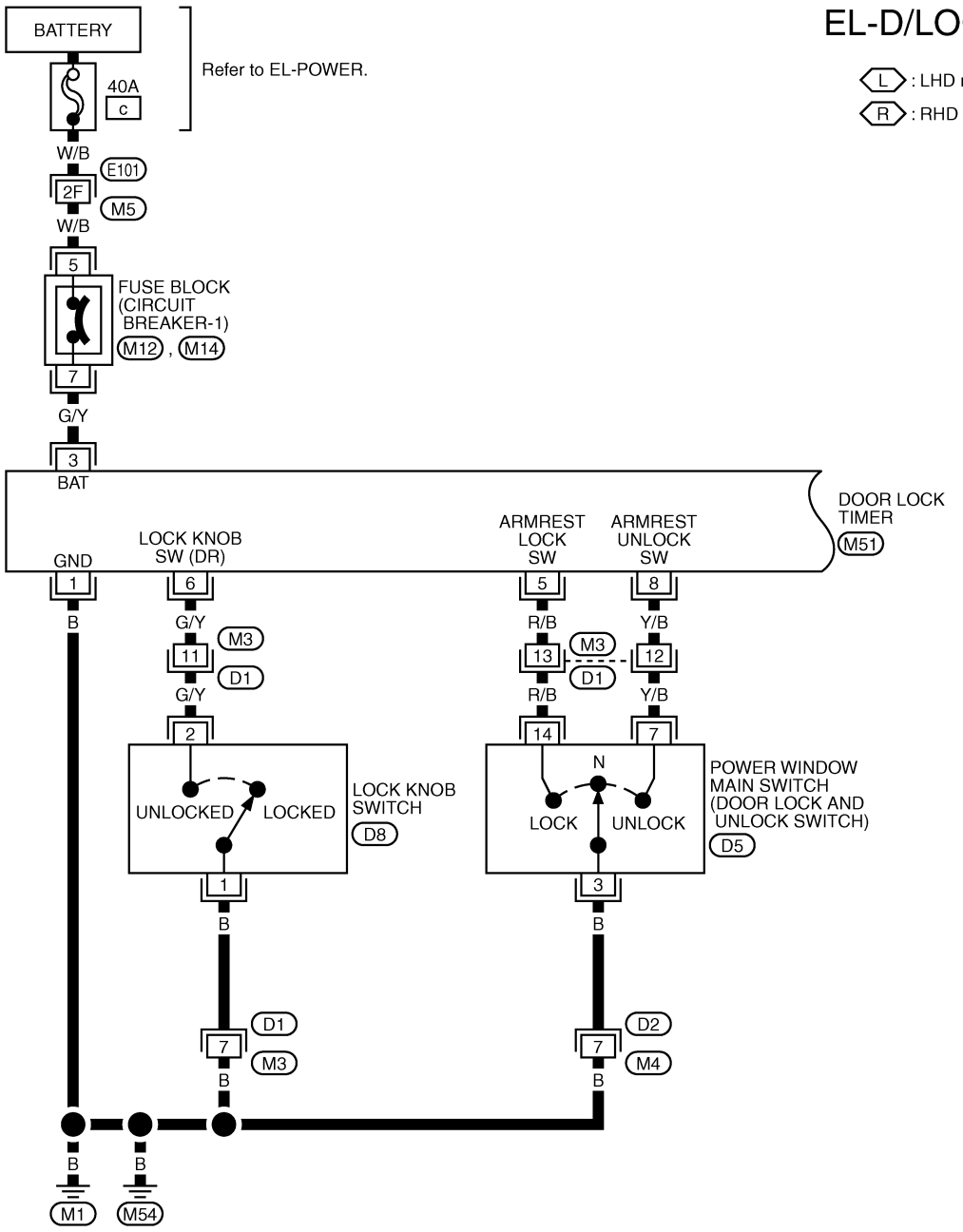
EL-WINDOW-08

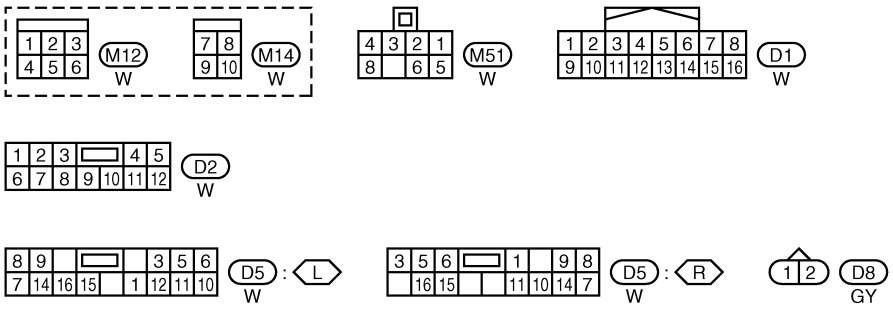




GEL173B

Wiring Diagram — D/LOCK —



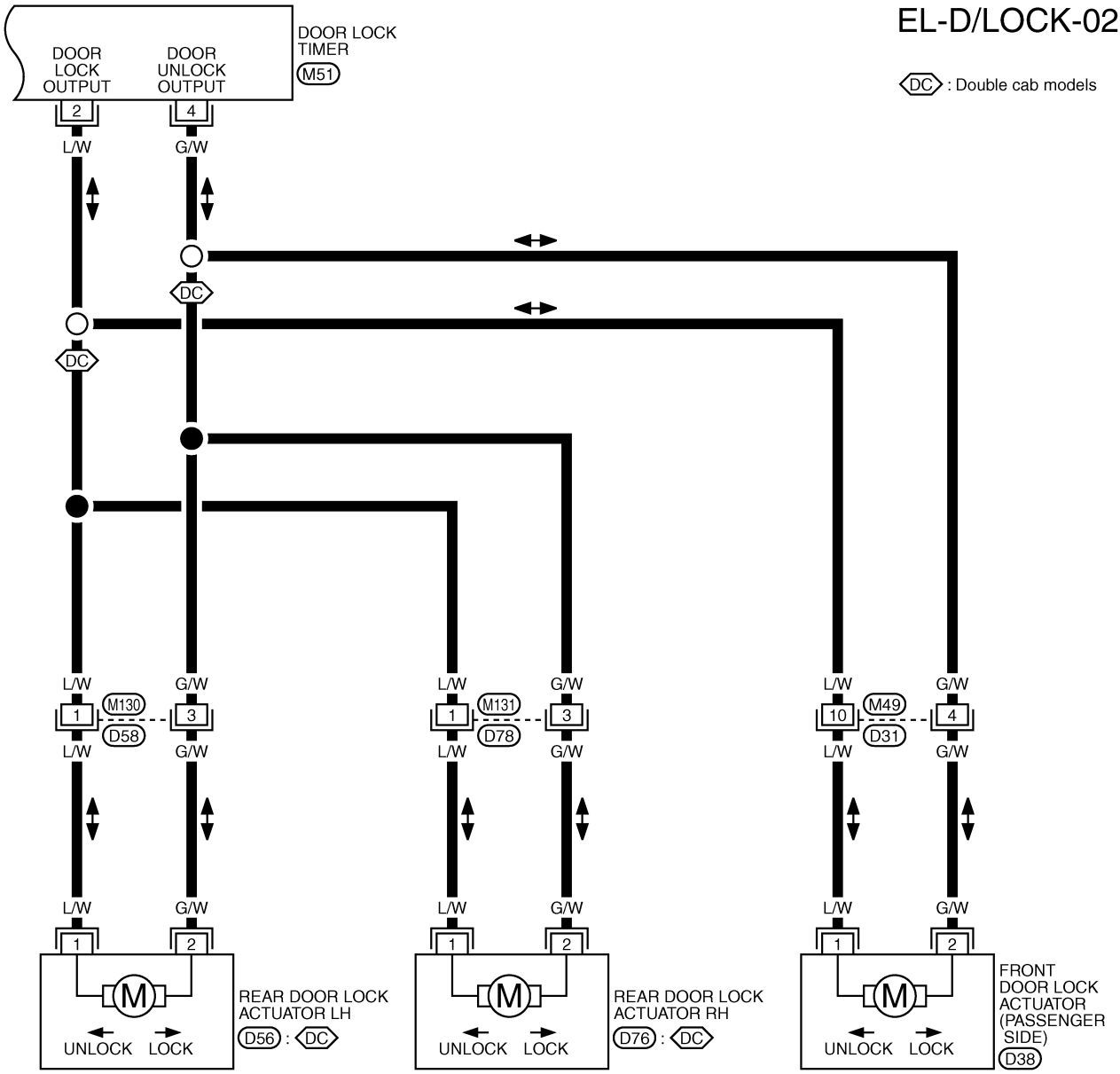


Refer to last page (Foldout page).
M5 , E101

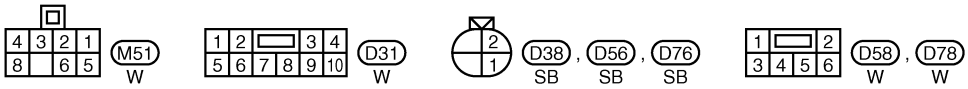
GEL175B

Wiring Diagram — D/LOCK — (Cont'd)

EL-D/LOCK-02



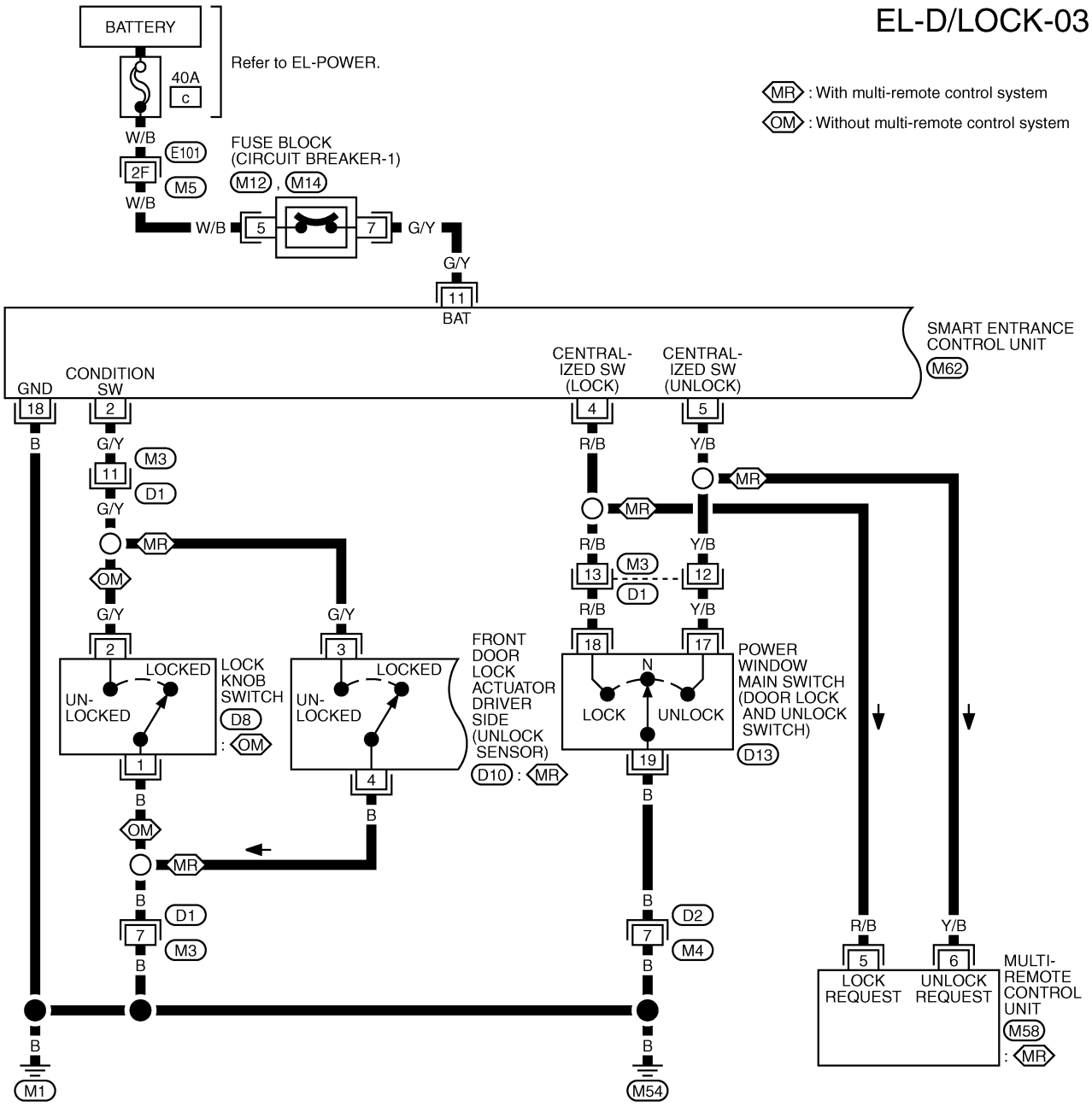
DC : Double cab models

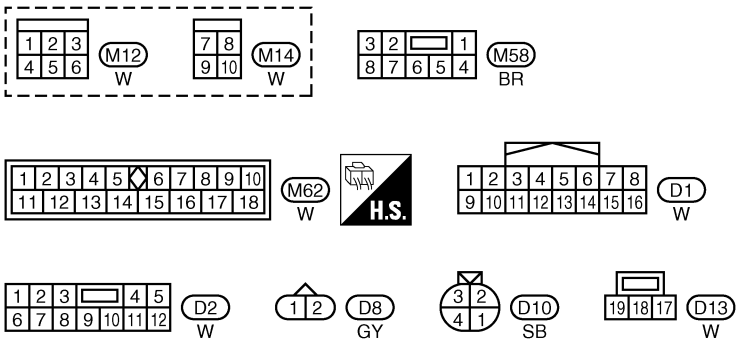


GEL176B

Wiring Diagram — D/LOCK —

EL-D/LOCK-03



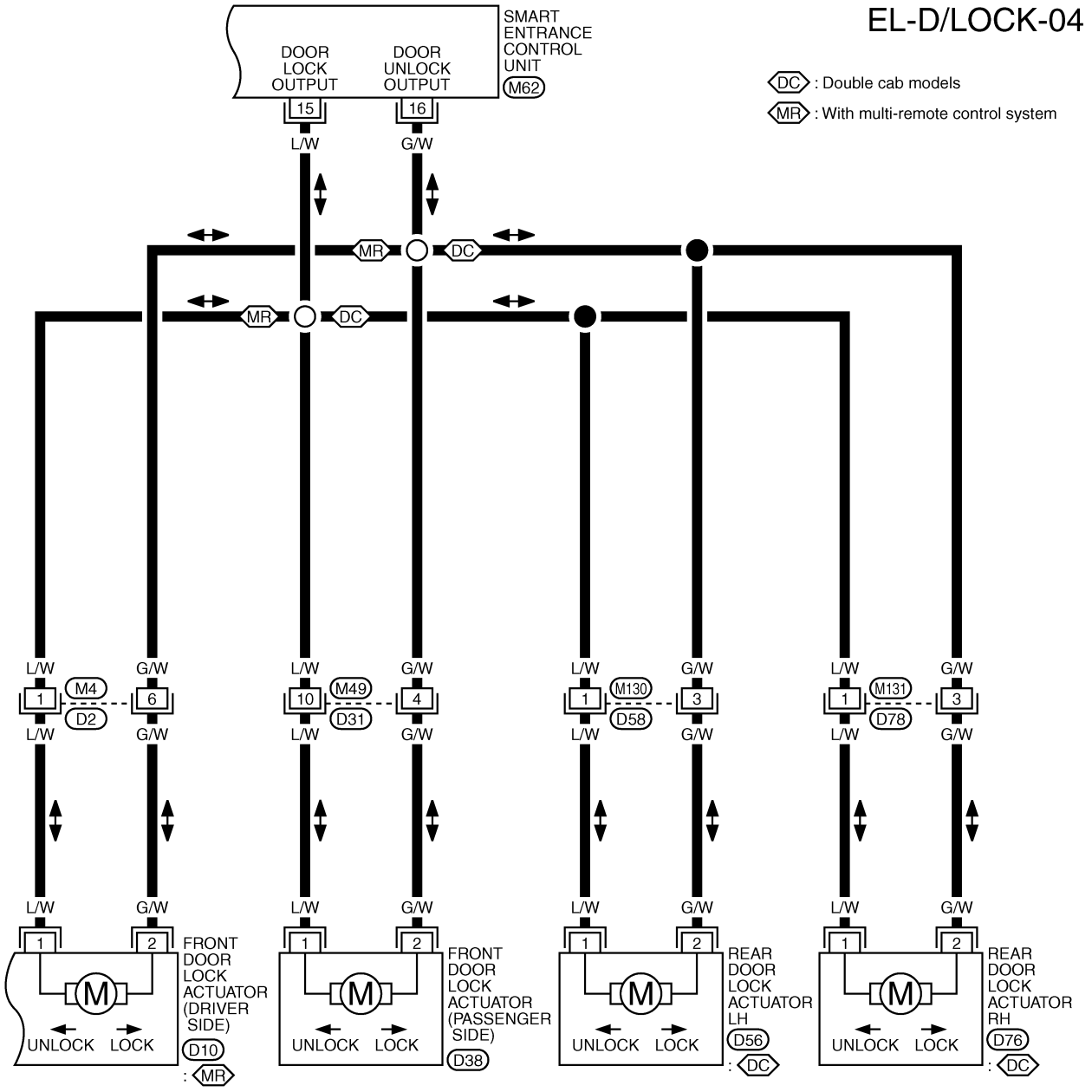


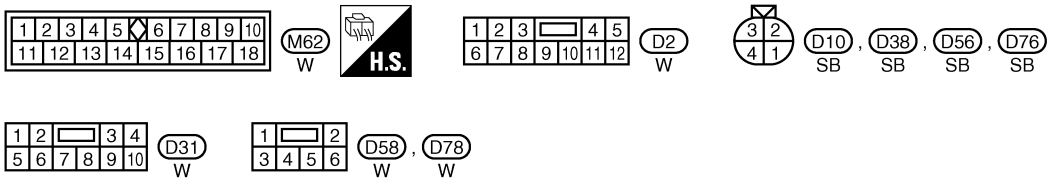
Refer to last page (Foldout page).
M5 , E101

GEL177B

Wiring Diagram — D/LOCK — (Cont'd)

EL-D/LOCK-04

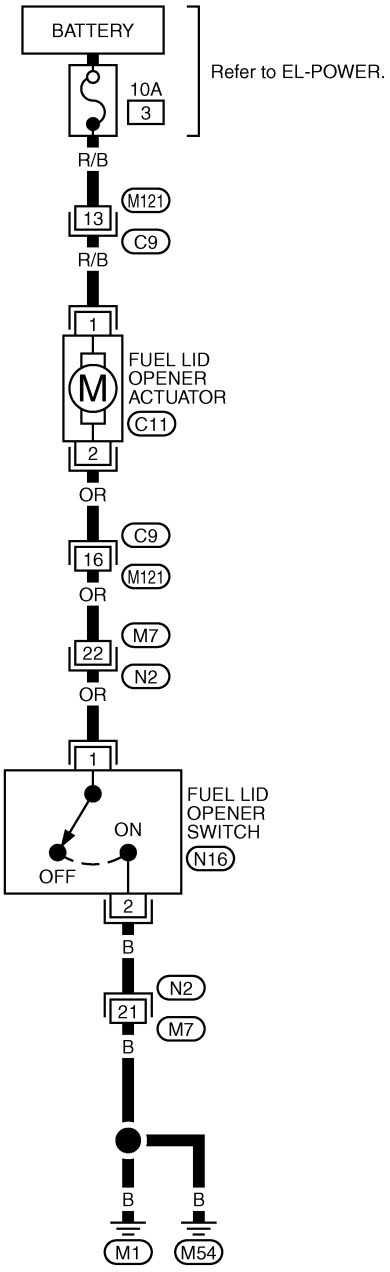


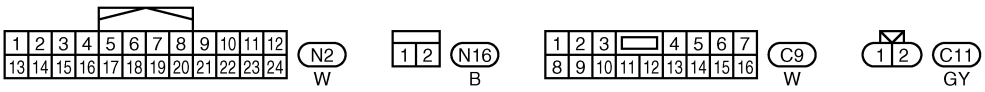


GEL178B

Wiring Diagram — F/LID —

EL-F/LID-01





GEL174B

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

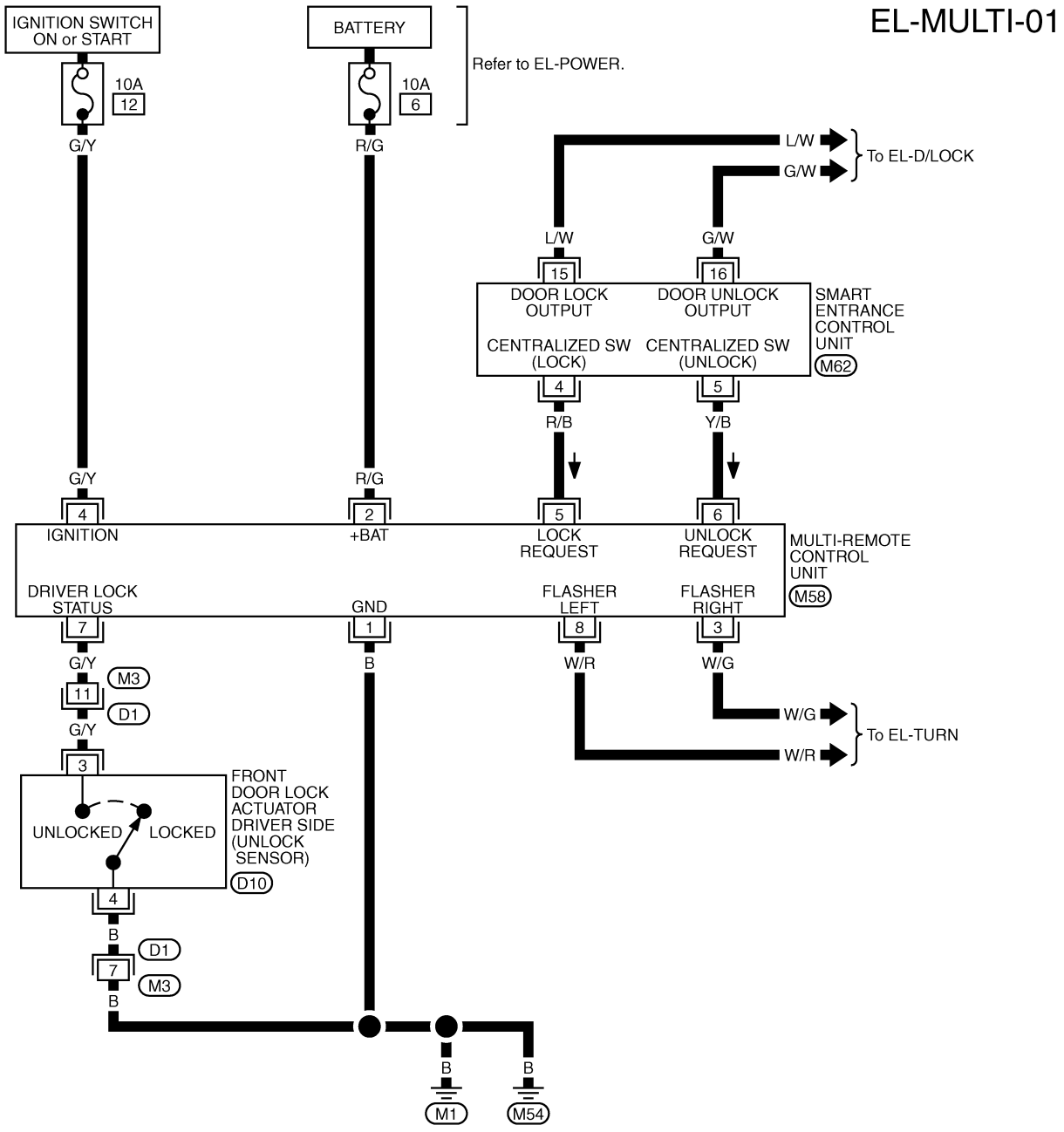
A maximum of four remote controllers can be entered. Any attempt to enter a remote controller will erase all ID codes previously entered. Therefore, be sure to receive all remote controllers from the vehicle owner when any ID code entry is performed.

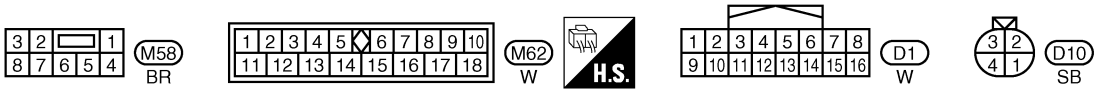
To enter ID code entry, the following signals must be input to the multi-remote control unit.

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

For detailed procedure, refer to "ID Code Entry Procedure" in EL-85.

Wiring Diagram — MULTI —





GEL179B

Trouble Diagnoses

SYMPTOM CHART

Symptom	Possible cause	Diagnoses/service order
No doors can be locked or unlocked by remote control operation. (See NOTE.)	1. Power door lock system	1. Check power door lock operation.
	2. Remote controller battery	2. Check remote controller battery. Refer to EL-86.
	3. Door lock/unlock circuit	3. Check harness for open or short between multi-remote control unit and smart entrance control unit.
	4. 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.
	5. Power supply circuit for multi-remote control unit	5. Make sure battery voltage is present at terminal ② of multi-remote control unit.
	6. Ground circuit for multi-remote control unit	6. Check continuity between terminal ① of multi-remote control unit and ground.
	7. Remote controller	7. Replace remote controller. Refer to EL-85.
Hazard reminder does not operate properly.	1. Hazard reminder output to hazard warning lamps	1. Check hazard reminder output to hazard warning lamps at terminals ③ and ⑧ of multi-remote control unit.
	2. Hazard reminder circuit	2. Check the harness for open or short between hazard warning lamps and multi-remote control unit.
	3. Driver's door unlock sensor	3. Check driver's door unlock sensor signal at terminal ⑦ of multi-remote control unit.
The new ID of remote controller cannot be entered.	1. Remote controller battery	1. Check remote controller battery. Refer to EL-86.
	2. Ignition power supply circuit for multi-remote control unit	2. Make sure battery voltage is present at terminal ④ of multi-remote control unit while ignition switch is in IGN position.
	3. Driver's door unlock sensor	3. Check driver's door unlock sensor signal at terminal ⑦ of multi-remote control unit.
	4. Remote controller	4. Replace remote controller. Refer to EL-85.

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

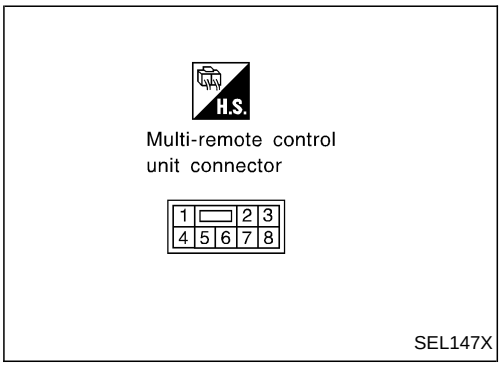
NOTE:

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

Trouble Diagnoses (Cont'd)

MULTI-REMOTE CONTROL UNIT INSPECTION TABLE

Terminal No.	Connections	Condition		Voltage (V) (approximate values)
1	Ground	—		—
2	Power source (BAT)	—		12
3	Hazard warning lamp RH	Remote controller LOCK/UNLOCK button is pushed (All doors are closed and key is not in ignition key cylinder.)		12
		Other than above condition		0
4	Ignition power supply	Ignition switch	OFF	0
			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
			Unlocked	0
8	Hazard warning lamp LH	Remote controller LOCK/UNLOCK button is pushed (All doors are closed and key is not in ignition key cylinder.)		12
		Other than above condition		0



ID Code Entry Procedure

Activation of the registration mode:

The vehicle must have been unlocked by either the multi-remote controller or a transponder OK signal (TPOK) from the vehicle's immobilizer.
Preparation: - Make sure all doors unlock.
- Make sure all multi-remote controllers to be registered are available.
- Make sure the batteries of all multi-remote controllers are in a good condition.
- Make sure all transmitting sources are out of the neighbourhood of the vehicle.
- Make sure the battery of the vehicle is in a good condition.

↓

Switch ignition-switch exactly six times from the "LOCK" to the "ON" position within 10 seconds and return the ignition switch to the "LOCK" position (leaving the key in the ignition switch).

↓

After 2 seconds the registration mode is activated. The turn signal lamps will flash twice.

NG → Switch ignition-switch exactly six times from the "LOCK" to the "ON" position within 10 seconds and return the ignition switch to the "LOCK" position (leaving the key in the ignition switch).

↓ OK

Proceed with the registration mode.

NOTE
The registration mode is operated when:
- The ignition-switch is turned to the "ON" position.
- 4 multi remote controllers have been learned.
- No multi-remote controller or ignition switch input is received within 120 seconds.

Registration mode

Press and hold the "UNLOCK" button of the multi-remote controller.

↓

Press the "LOCK" button 3 times.

↓

Release the "UNLOCK" button.

↓

Do you want to register another multi-remote controller? (max. 4)

OK ← If the multi-remote controller code is registered correctly, the turn signal lamp will flash once.

NG → Press and hold the "UNLOCK" button of the multi-remote controller.

No ↓

Yes → Press and hold the "UNLOCK" button of the multi-remote controller.

After registration of the requested No. of multi-remote controller(s), confirm the ID-code(s) by switching the ignition switch to the "ON" position.

→ If the multi-remote controller registration is performed correctly, the turn signal lamp will flash twice.

OK ↓

NG → Press and hold the "UNLOCK" button of the multi-remote controller.

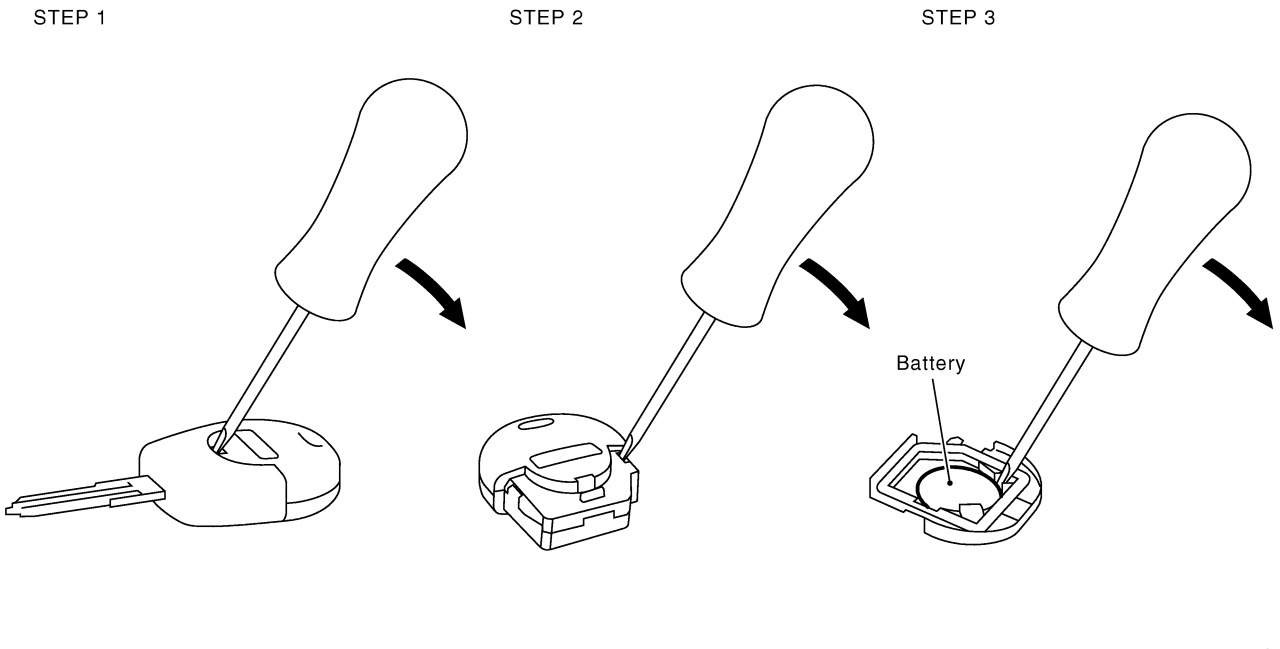
Take the ignition key out of the ignition switch and confirm the functioning of all multi-remote controllers by locking and unlocking the vehicle with each of the multi-remote controllers.

↓

End

Remote Controller Battery Replacement

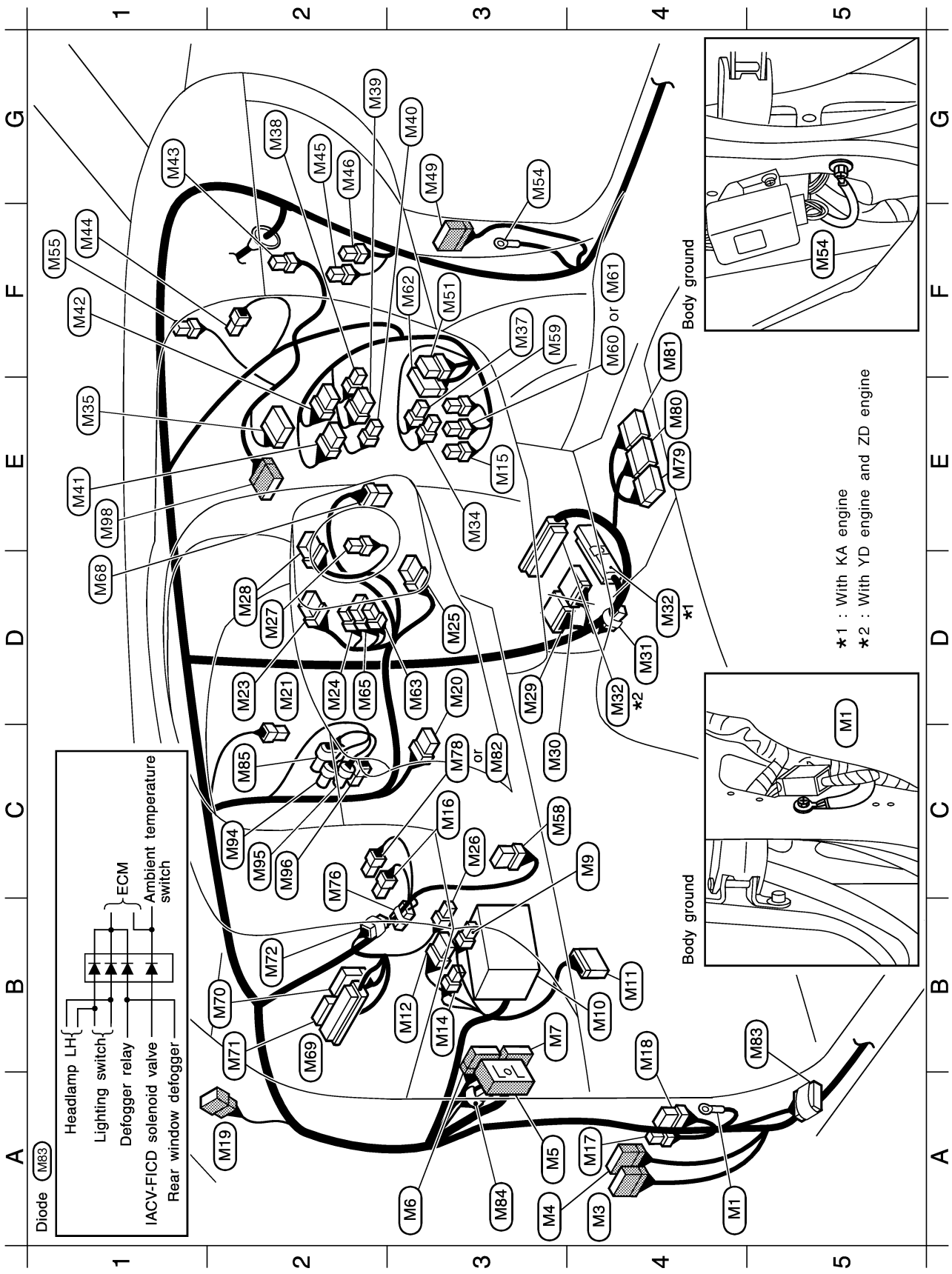
NOTE:
- **Be careful not to touch the circuit board or battery terminal.**
- **The remote controller is water-resistant. However, if it does get wet, immediately wipe it dry.**
- **Push the remote controller button two or three times to check its operation after replacing battery.**



NOTE:

Main Harness

INSTRUMENT PANEL — LHD MODELS



HEL173C

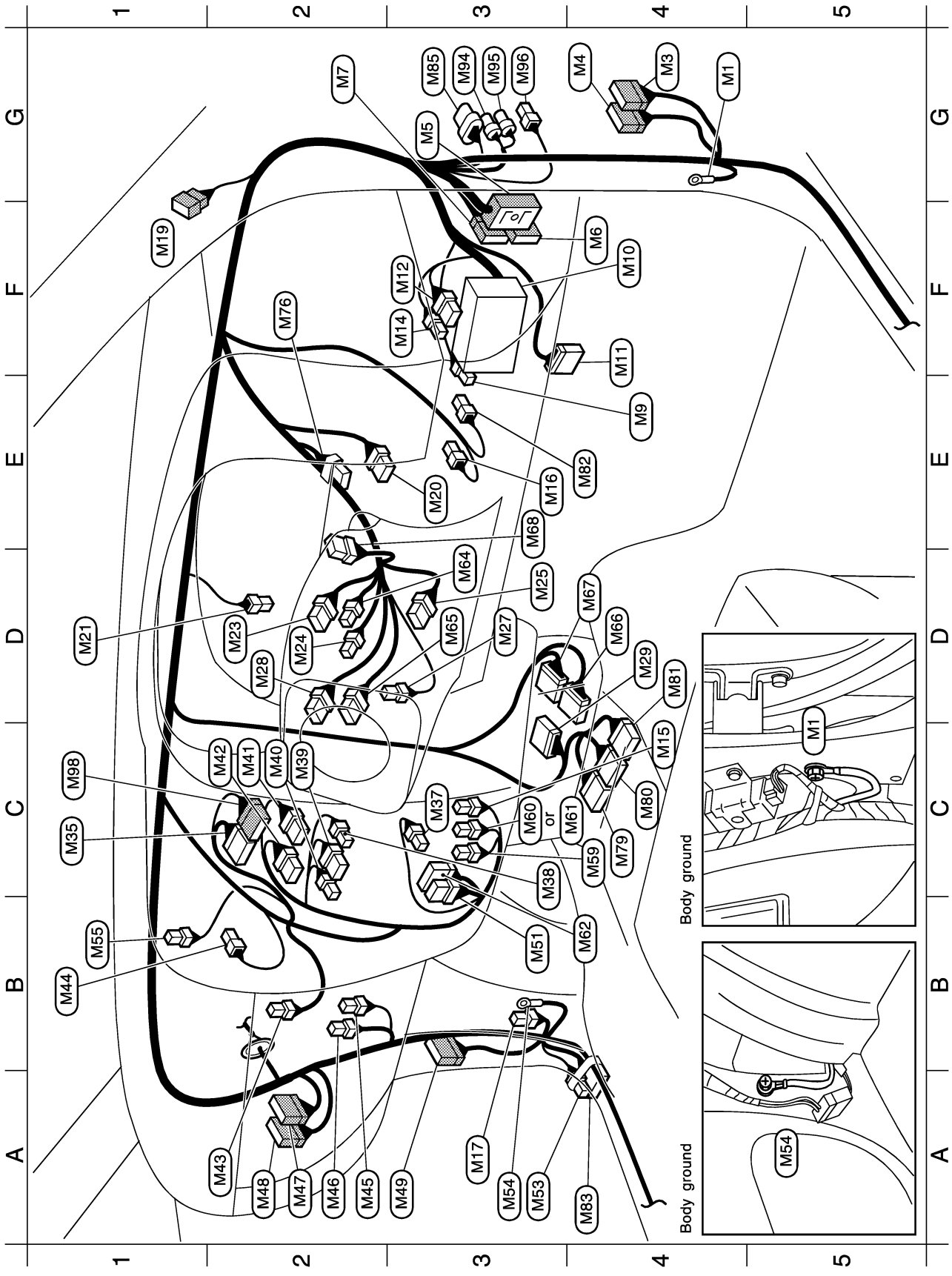
Main Harness (Cont'd)

A4 (M1) — : Body ground
A4 (M3) W/16 : To (D1)
A3 (M4) W/12 : To (D2) (With power window)
A3 (M5) SMJ : To (E101)
A3 (M6) W/16 : To (N1) (Except single cab with QD engine)
B3 (M7) W/24 : To (N2)
C4 (M9) L/4 : Fuel pump relay (KA engine)
B4 (M10) — : Fuse block
B4 (M11) W/16 : Data link connector
B3 (M12) W/6 : Fuse block
B3 (M14) W/4 : Fuse block
E3 (M15) B/3 : Combination flasher unit
C3 (M16) B/2 : Stop lamp switch
A4 (M17) L/4 : Front fog lamp relay (For Europe)
B4 (M18) W/6 : Not used (QD engine with A/T)
A2 (M19) W/6 : To (R1)
D3 (M20) W/6 : Ignition switch
D2 (M21) W/1 : Parking brake switch (Stick type)
D2 (M23) BR/8 : Turn signal lamp switch
D2 (M24) BR/4 : Lighting switch
D3 (M25) Y/7 : Spiral cable (With air bag)
C3 (M26) L/2 : A/T check switch (KA engine with A/T)
D2 (M27) B/1 : Horn switch (Without air bag)
D2 (M28) GY/8 : Wiper and washer switch
D3 (M29) W/12 : Glow control unit (TD engine except for cold areas and QD engine)
C3 (M30) W/16 : Glow control unit (TD engine for cold areas)
D4 (M31) GY/6 : Joint connector-1 (KA engine)
D4 (M32) SMJ : ECM (KA, YD and ZD engines)
E3 (M34) W/2 : Ashtray illumination (For the Middle East)
E1 (M35) W/10 : Audio unit (For Europe)
F3 (M37) B/2 : Cigarette lighter
G2 (M38) W/3 : A/C switch
G2 (M39) W/6 : Fan switch
G3 (M40) W/2 : Fan switch illumination
E1 (M41) W/8 : Hazard switch
F1 (M42) W/6 : Defogger switch (For Europe or double cab except for the Middle East)
G2 (M45) BR/4 : Fan resister
G1 (M43) Y/2 : Front passenger air bag module
F1 (M44) BR/4 : Thermo control amplifier
G2 (M46) W/2 : Blower motor
G3 (M49) W/10 : To (D31)
F3 (M51) W/8 : Door lock timer (With power door lock except for the Middle East)
G3 (M54) — : Body ground
F1 (M55) W/2 : Security indicator (With NATS)
C3 (M58) BR/8 : Multi-remote control unit (With rear power window for the Middle East)
F3 (M59) BR/6 : Defogger relay (For Europe or double cab except for the Middle East)
F4 (M60) L/4 : Rear fog lamp relay (For Europe)
F4 (M61) L/4 : Front fog lamp relay (YD engine with power window and ZD engine)
F3 (M62) W/18 : Smart entrance control unit (With power window for the Middle East)
D3 (M63) W/3 : Front fog lamp switch (YD engine with power window and ZD engine)
D2 (M65) W/6 : Fog lamp switch (For Europe)
D1 (M68) W/8 : NATS IMMU (For Europe)
B2 (M69) W/48 : TCM (Transmission control module) (QD engine with A/T)
B2 (M70) W/24 : TCM (Transmission control module) (KA engine with A/T)
B2 (M71) GY/24 : TCM (Transmission control module) (KA engine with A/T)
B2 (M72) -/6 : Joint connector-2 (With A/T)
C2 (M76) W/6 : Option connector (For Europe) (For theft warning system)
C3 (M78) L/2 : Shift lock brake switch (With A/T)
E4 (M79) Y/12 : Air bag diagnosis sensor unit (For pre-tensioner seat belt)
E4 (M80) Y/20 : Air bag diagnosis sensor unit
F4 (M81) Y/12 : Air bag diagnosis sensor unit (For pre-tensioner seat belt)
C3 (M82) B/2 : Brake pedal position switch (YD engine)
B5 (M83) L/10 : Diode (KA engine)
A3 (M84) BR/2 : Resistor (With A/T)
C2 (M85) GY/6 : Accelerator work unit (YD engine)
C2 (M94) BR/3 : Accelerator position sensor (ZD engine)
C2 (M95) GY/3 : Accelerator position switch (ZD engine)
C2 (M96) W/3 : Accelerator switch (F/C) (ZD engine)
E1 (M98) W/12 : Audio unit (Via sub-harness) (Except for Europe)

HEL174C

Main Harness (Cont'd)

INSTRUMENT PANEL — RHD MODELS



HEL175C

Main Harness (Cont'd)

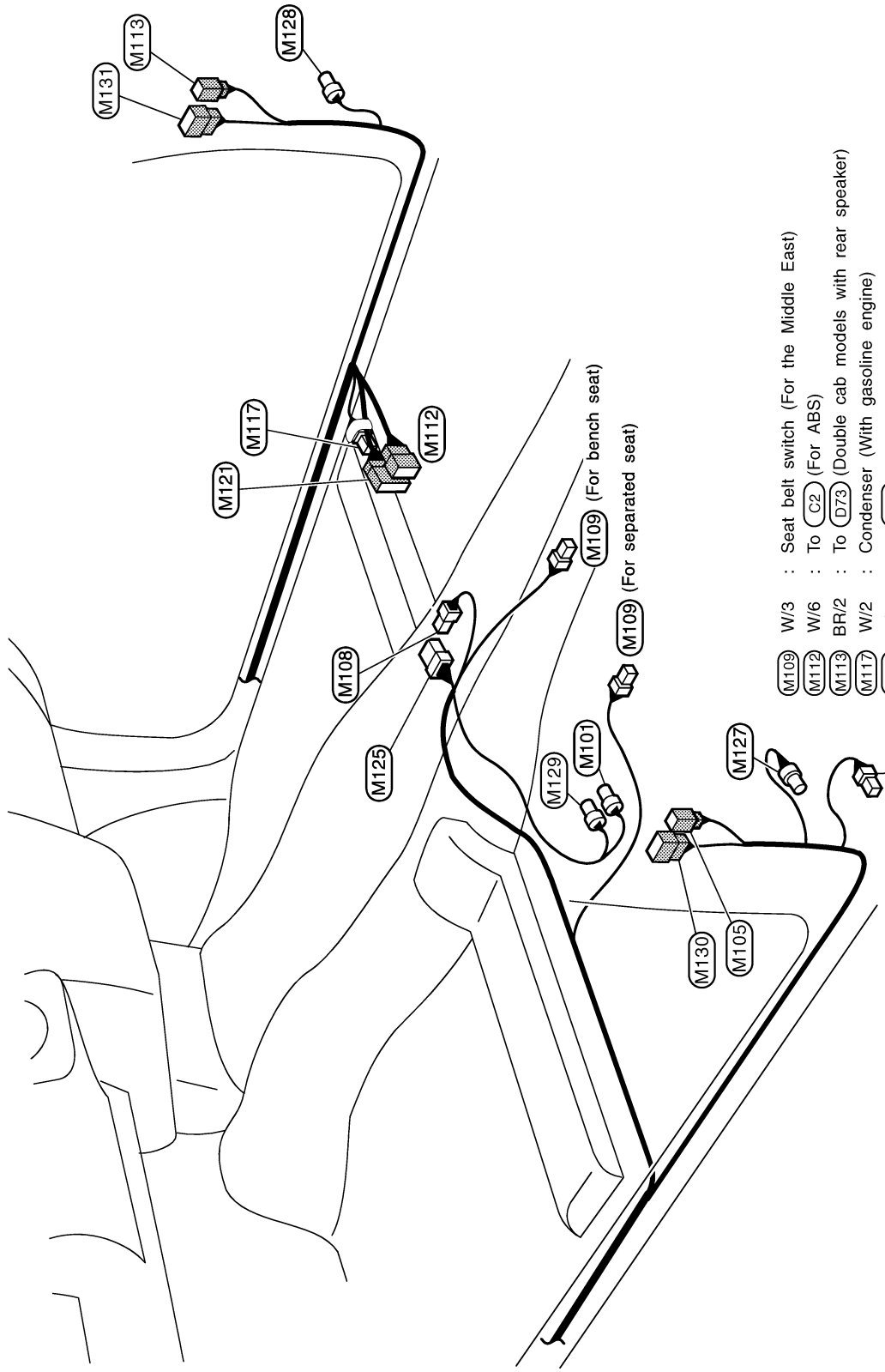
G4 (M1) — : Body ground
G4 (M3) W/16 : To (D1)
G4 (M4) W/12 : To (D2) (With power window)
G3 (M5) SMJ : To (E101)
F4 (M6) W/16 : To (N1)
G2 (M7) W/24 : To (N2)
E4 (M9) L/4 : Fuel pump relay (KA engine)
F4 (M10) — : Fuse block
F4 (M11) W/16 : Data link connector
F3 (M12) W/6 : Fuse block
F3 (M14) W/4 : Fuse block
C4 (M15) B/3 : Combination flasher unit
E3 (M16) B/2 : Stop lamp switch
A3 (M17) L/4 : Front fog lamp relay (For Europe)
F1 (M19) W/6 : To (R1)
E3 (M20) W/6 : Ignition switch
D1 (M21) W/1 : Parking brake switch (Stick type)
D2 (M23) BR/8 : Turn signal lamp switch
D2 (M24) BR/4 : Lighting switch
D3 (M25) Y/7 : Spiral cable (With air bag)
D3 (M27) B/1 : Horn switch (Without air bag)
D2 (M28) GY/8 : Wiper and washer switch
D4 (M29) W/12 : Glow control unit (TD engine without EGR and QD engine)
C1 (M35) W/16 : Audio unit (For Europe)
C3 (M37) B/2 : Cigarette lighter
C3 (M38) W/3 : A/C switch
C2 (M39) W/6 : Fan switch
C2 (M40) W/2 : Fan switch illumination
C2 (M41) W/8 : Hazard switch
C2 (M42) W/6 : Defogger switch (For Europe or double cab)
A2 (M43) Y/2 : Front passenger air bag module
B1 (M44) BR/4 : Thermo control amplifier
A2 (M45) BR/4 : Fan resistor
A2 (M46) W/2 : Blower motor
A2 (M47) W/16 : To (F55) (KA, YD and ZD engines)
A2 (M48) W/24 : To (F54) (KA, YD and ZD engines)
A3 (M49) W/10 : To (D31)
B3 (M51) W/8 : Door lock timer (With power door lock except for Europe)
A3 (M53) L/4 : Diode (Single cab with KA engine)
A3 (M54) — : Body ground
B1 (M55) W/2 : Security indicator (For Europe)
C4 (M59) BR/6 : Defogger relay (For Europe or double cab)
C3 (M60) L/4 : Rear fog lamp relay (For Europe)
C4 (M61) L/4 : Front fog lamp relay (Double cab with ZD engine)
B4 (M62) W/18 : Smart entrance control unit (For Europe)
D3 (M64) W/4 : Front fog lamp switch (Double cab with ZD engine)
D3 (M65) W/6 : Front and rear fog lamp switch (For Europe)
D4 (M66) GY/20 : ECM (TD engine with EGR)
D4 (M67) GY/16 : ECM (TD engine with EGR)
E3 (M68) W/8 : NATS IMMU (For Europe)
F2 (M76) W/6 : Option connector for theft warning system (For Europe)
C4 (M79) Y/12 : Air bag diagnosis sensor unit (With air bag for Europe and Australia)
C4 (M80) Y/20 : Air bag diagnosis sensor unit (With air bag)
D4 (M81) Y/12 : Air bag diagnosis sensor unit (With air bag for Europe and Australia)
E4 (M82) B/2 : Brake pedal position switch (YD engine)
A4 (M83) L/10 : Diode (Double cab with KA engine)
G3 (M85) GY/6 : Accelerator work unit (YD engine)
G3 (M94) BR/3 : Accelerator position sensor (ZD engine)
G3 (M95) GY/3 : Accelerator position switch (ZD engine)
G3 (M96) W/3 : Accelerator switch (F/C) (ZD engine)
C1 (M98) W/12 : Audio unit (Via sub-harness) (Except for Europe)

Engine compartment

HEL176C

Main Harness (Cont'd)

BODY SIDE — LHD MODELS



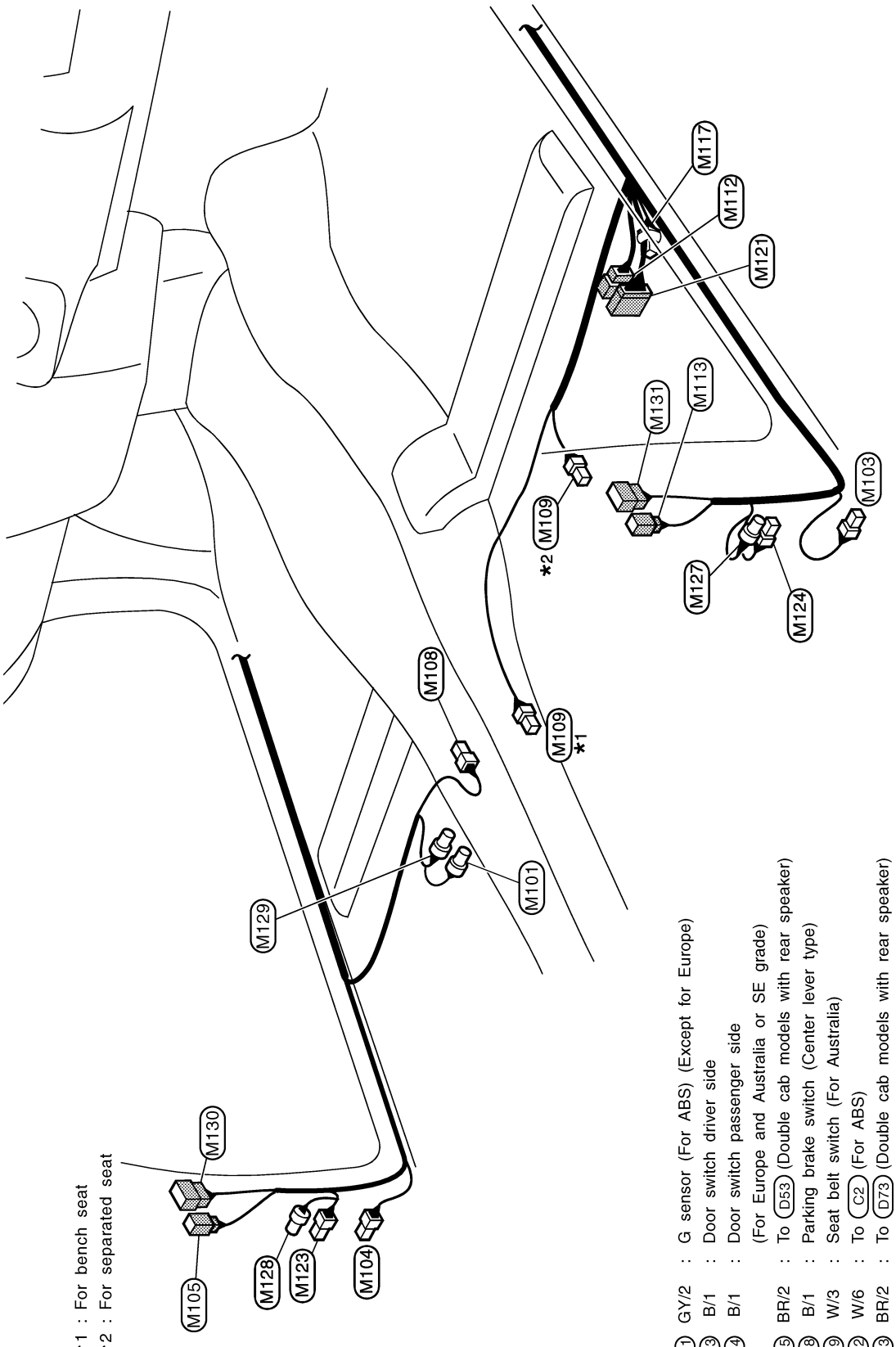
M109 W/3 : Seat belt switch (For the Middle East)
M112 W/6 : To C2 (For ABS)
M113 BR/2 : To D73 (Double cab models with rear speaker)
M117 W/2 : Condenser (With gasoline engine)
M121 W/16 : To C9
M125 W/6 : A/T device (With A/T)
M127 Y/2 : Front LH seat belt pre-tensioner (With air bag)
M128 Y/2 : Front RH seat belt pre-tensioner (With air bag)
M129 GY/4 : G sensor (For ABS) (For Europe)
M130 W/6 : To D58 (Double cab models with power window)
M131 W/6 : To D78 (Double cab models with power window)

M101 GY/2 : G sensor (For ABS) (Except for Europe)
M103 B/1 : Door switch driver side
M105 BR/2 : To D53 (Double cab models with rear speaker)
M108 B/1 : Parking brake switch (Center lever type)

HEL177C

Main Harness (Cont'd)

BODY SIDE — RHD MODELS



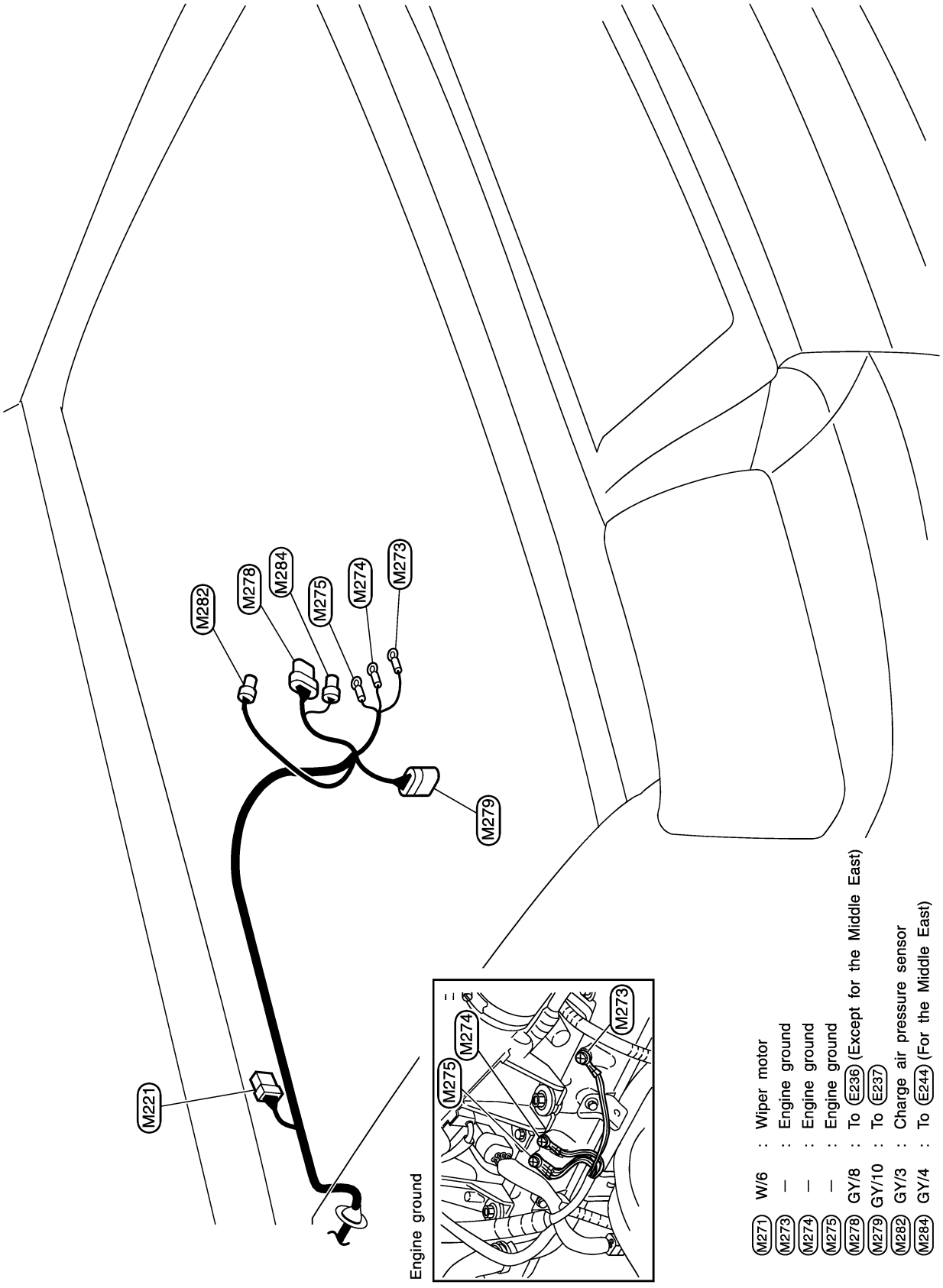
*1 : For bench seat
*2 : For separated seat

M101	GY/2	: G sensor (For ABS) (Except for Europe)
M103	B/1	: Door switch driver side
M104	B/1	: Door switch passenger side (For Europe and Australia or SE grade)
M105	BR/2	: To D53 (Double cab models with rear speaker)
M108	B/1	: Parking brake switch (Center lever type)
M109	W/3	: Seat belt switch (For Australia)
M112	W/6	: To C2 (For ABS)
M113	BR/2	: To D73 (Double cab models with rear speaker)
M117	W/2	: Condenser (KA engine)
M121	W/16	: To C9
M123	W/4	: Front LH seat belt pre-tensioner (With air bag for Europe and Australia)
M124	W/4	: Front RH seat belt pre-tensioner (With air bag for Europe and Australia)
M127	Y/2	: Front RH seat belt pre-tensioner (With air bag except QD engine)
M128	Y/2	: Front LH seat belt pre-tensioner (With air bag except QD engine)
M129	GY/4	: G sensor (For ABS) (For Europe)
M130	W/6	: To D58 (Double cab models with power window)
M131	W/6	: To D78 (Double cab models with power window)

HEL178C

Main Harness (Cont'd)

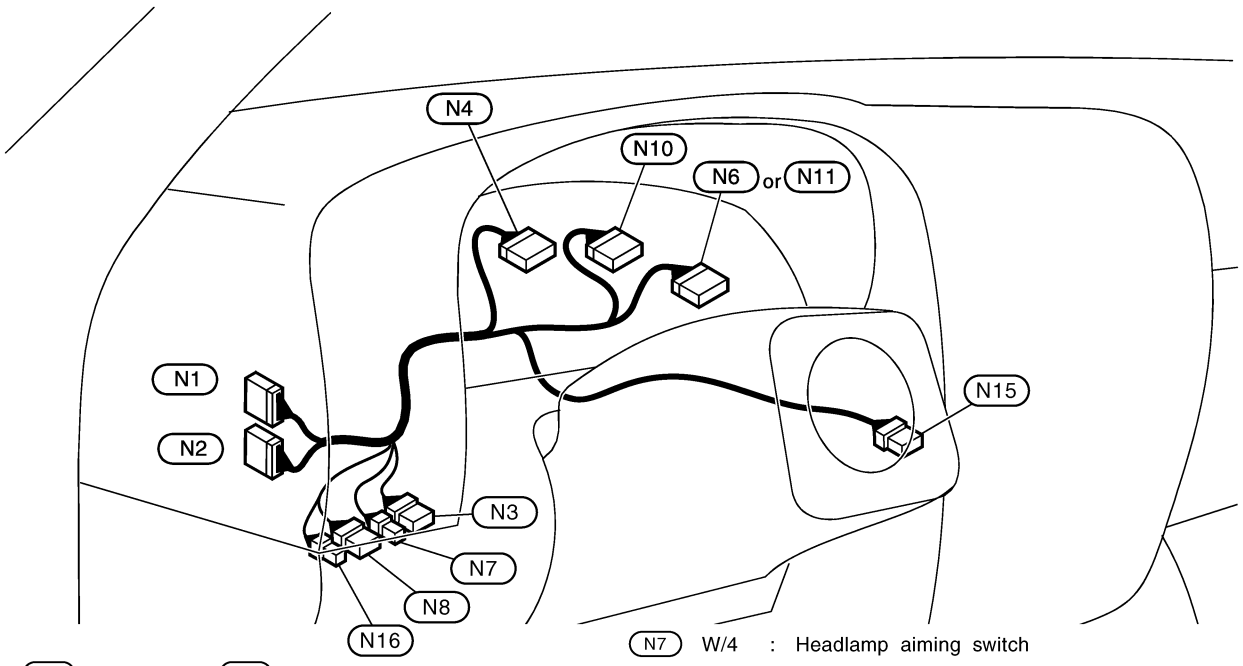
ENGINE COMPARTMENT — YD ENGINE (LHD models)



HEL179C

Instrument Harness

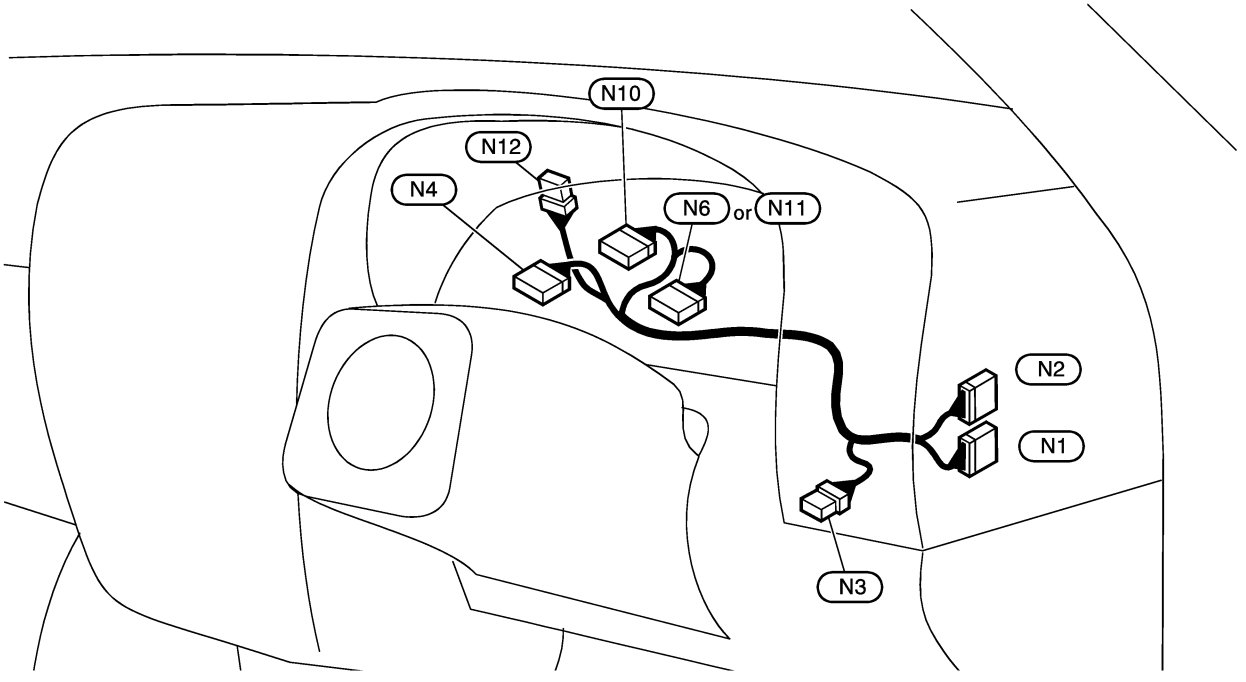
LHD MODELS



N1	W/16	:	To M6
N2	W/24	:	To M7
N3	W/6	:	Heat up switch (Except with KA engine and A/T)
N4	W/24	:	Combination meter (With tachometer)
N6	BR/24	:	Combination meter (With tachometer)
N7	W/4	:	Headlamp aiming switch (For Europe and the Middle East)
N8	BR/8	:	Headlamp washer switch (For Europe)
N10	BR/20	:	Combination meter (Without tachometer)
N11	W/24	:	Combination meter (Without tachometer)
N15	W/8	:	A/T mode switch (QD engine with A/T)
N16	B/2	:	Fuel lid opener switch (For the Middle East)

HEL180C

RHD MODELS

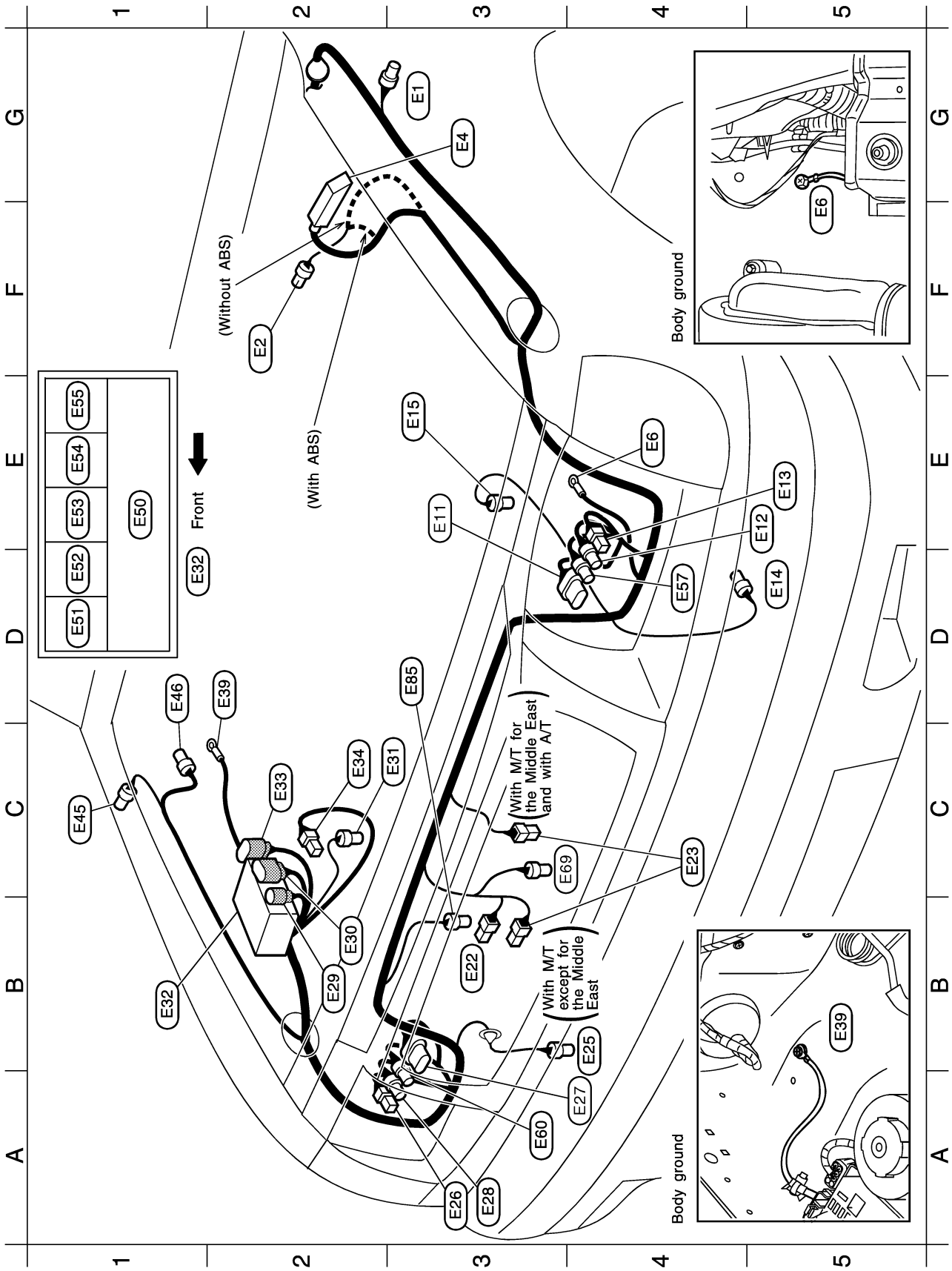


N1	W/16	:	To M6
N2	W/24	:	To M7
N3	W/6	:	Heat up switch
N4	W/24	:	Combination meter (With tachometer)
N6	BR/24	:	Combination meter (With tachometer)
N10	BR/20	:	Combination meter (Without tachometer)
N11	W/24	:	Combination meter (Without tachometer)
N12	BR/8	:	Dongle unit (For Europe)

HEL181C

Engine Room Harness

LHD MODELS — GASOLINE ENGINE



HEL182C

Engine Room Harness (Cont'd)

G3 (E1) GY/2 : Side turn signal lamp LH
F2 (E2) GY/2 : Brake fluid level switch (For the Middle East)
G3 (E4) B/31 : ABS actuator and electric unit (For ABS)
E4 (E6) — : Body ground
E3 (E11) GY/6 : Front combination lamp LH (2WD models for the Middle East)
E5 (E12) GY/3 : Front combination lamp LH (Except 2WD models for the Middle East)
E5 (E13) B/3 : Headlamp LH
D5 (E14) GY/2 : Washer pump
E3 (E15) BR/2 : Front wheel sensor LH (For ABS)
B3 (E22) B/1 : Horn low
C4 (E23) B/1 : Horn high
B4 (E25) GY/4 : Triple-pressure switch
A3 (E26) B/3 : Headlamp RH
A4 (E27) GY/6 : Front combination lamp RH (2WD models for the Middle East)
A3 (E28) GY/3 : Front combination lamp RH (Except 2WD models for the Middle East)
B2 (E29) GY/2 : To (E204)
B2 (E30) GY/8 : To (E203)
C3 (E31) GY/2 : Front wheel sensor RH (For ABS)
B1 (E32) — : Relay box (Fusible link and fuse box)
C2 (E33) SB/8 : To (E205)
C2 (E34) B/1 : Battery
D2 (E39) — : Body ground
C1 (E45) GY/2 : Side turn signal lamp RH
D1 (E46) GY/3 : Power antenna (For the Middle East)
E1 (E50) — : Fusible link and fuse box
D1 (E51) L/4 : Cooling fan relay (For the Middle East)
D1 (E52) L/4 : Air conditioner relay
E1 (E53) W/3 : Horn relay
E1 (E54) BR/6 : Park/Neutral position relay (With A/T)
E1 (E55) BR/6 : ECM relay
D4 (E57) -/3 : Headlamp aiming motor LH (4WD models for the Middle East)
A3 (E60) -/3 : Headlamp aiming motor RH (4WD models for the Middle East)
C3 (E69) BR/2 : Ambient temperature switch
D3 (E85) GY/2 : Cooling fan motor (For the Middle East)

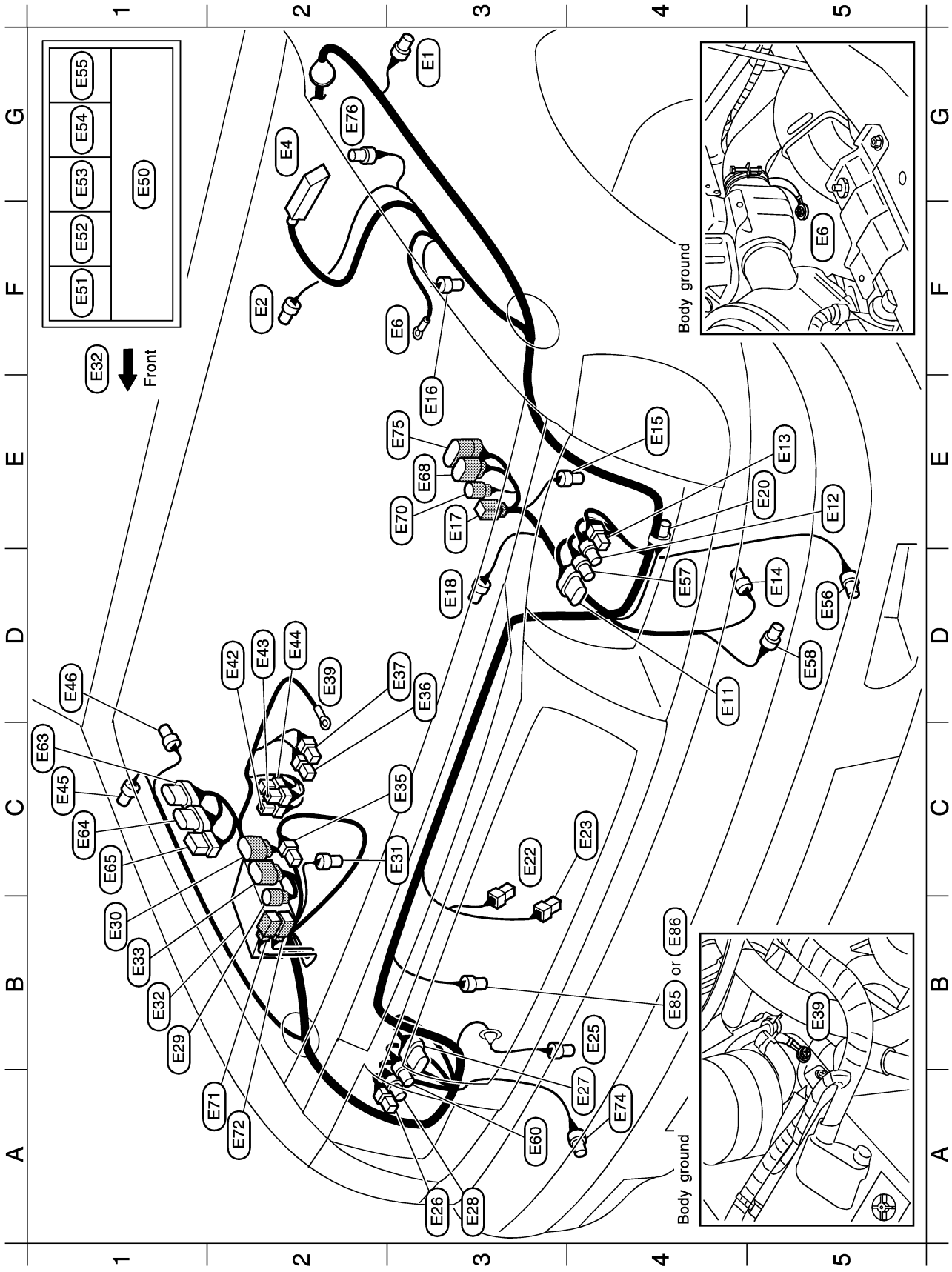
PASSENGER COMPARTMENT

(E101) SMJ : To (M5)
(E103) B/2 : Fuse block

HEL183C

Engine Room Harness (Cont'd)

LHD MODELS — DIESEL ENGINE



HEL184C

Engine Room Harness (Cont'd)

G3 (E1) GY/2 : Side turn signal lamp LH
F2 (E2) GY/2 : Brake fluid level switch (For Europe and the Middle East)
G2 (E4) B/31 : ABS actuator and electric unit (For ABS)
F3 (E6) — : Body ground
D4 (E11) GY/6 : Front combination lamp LH (2WD models with regular rear body for the Middle East)
E5 (E12) GY/3 : Front combination lamp LH (Except 2WD models with regular rear body for the Middle East)
E5 (E13) B/3 : Headlamp LH
D5 (E14) GY/2 : Washer pump
E4 (E15) BR/2 : Front wheel sensor LH (For ABS)
E3 (E16) GY/2 : Intake air temperature sensor (YD and ZD engines)
E3 (E17) B/2 : To (A2)
D3 (E18) GY/2 : Thermoswitch (QD engines)
E5 (E20) GY/2 : Option connector (For hood switch) (For Europe)
C3 (E22) B/1 : Horn low
C4 (E23) B/1 : Horn high
B4 (E25) GY/4 : Triple-pressure switch
A3 (E26) B/3 : Headlamp RH
A4 (E27) GY/6 : Front combination lamp RH (2WD models with regular rear body for the Middle East)
A3 (E28) GY/3 : Front combination lamp RH (Except 2WD models with regular rear body for the Middle East)
B1 (E29) GY/2 : To (E204)
B1 (E30) GY/8 : To (E203) (YD and ZD engines or with A/T)
C3 (E31) GY/2 : Front wheel sensor RH (For ABS)
B1 (E32) — : Relay box (Fusible link and fuse box)
B1 (E33) SB/8 : To (E205)
C3 (E35) B/1 : To (E206) (TD and QD engines)
D3 (E36) B/1 : IACV-FICD solenoid valve (TD and QD engines)
D3 (E37) B/1 : IACV-FICD solenoid valve (TD and QD engines)
D2 (E39) — : Body ground
D2 (E42) W/1 : Glow relay-1 (YD and ZD engines)
D2 (E43) W/1 : Glow relay-1 (YD and ZD engines)
D2 (E44) G/2 : Glow relay-1 (YD and ZD engines)
C1 (E45) GY/2 : Side turn signal lamp RH
D1 (E46) GY/3 : Power antenna (YD engine)
G1 (E50) — : Fusible link and fuse box
F1 (E51) L/4 : Cooling fan relay (QD, YD and ZD engines)
F1 (E52) L/4 : Air conditioner relay
G1 (E53) W/3 : Horn relay
G1 (E54) L/4 : Park/Neutral position (PNP) relay (With A/T)

G1 (E55) BR/6 : ECM relay (YD and ZD engines except for the Middle East)
L/4 : ECM relay (YD engine for the Middle East)
B/5 : ATP relay (With A/T)
D5 (E56) B/2 : Front fog lamp LH
(With YD and ZD engines except for the Middle East)
D4 (E57) -/3 : Headlamp aiming motor LH (For Europe, 2WD models with smooth rear body and 4WD models for the Middle East)
D5 (E58) GY/2 : Headlamp washer pump (For Europe)
A3 (E60) -/3 : Headlamp aiming motor RH (For Europe, 2WD models with smooth rear body and 4WD models for the Middle East)
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 (E68) GY/2 : To (A13) (TD and QD engines with M/T)
E3 (E70) BR/3 : To (A14) (YD and ZD engines)
A2 (E71) B/2 : To (E231) (YD and ZD engines)
A2 (E72) B/2 : To (E232) (YD and ZD engines)
A4 (E74) B/2 : Front fog lamp RH
(With YD and ZD engines except for the Middle East)
E3 (E75) GY/10 : To (A15) (With A/T)
G2 (E76) GY/2 : Dropping resistor (With A/T)
B4 (E85) GY/2 : Cooling fan motor
(QD, YD and ZD engines except for the Middle East)
B4 (E86) GY/4 : Cooling fan motor (For the Middle East)

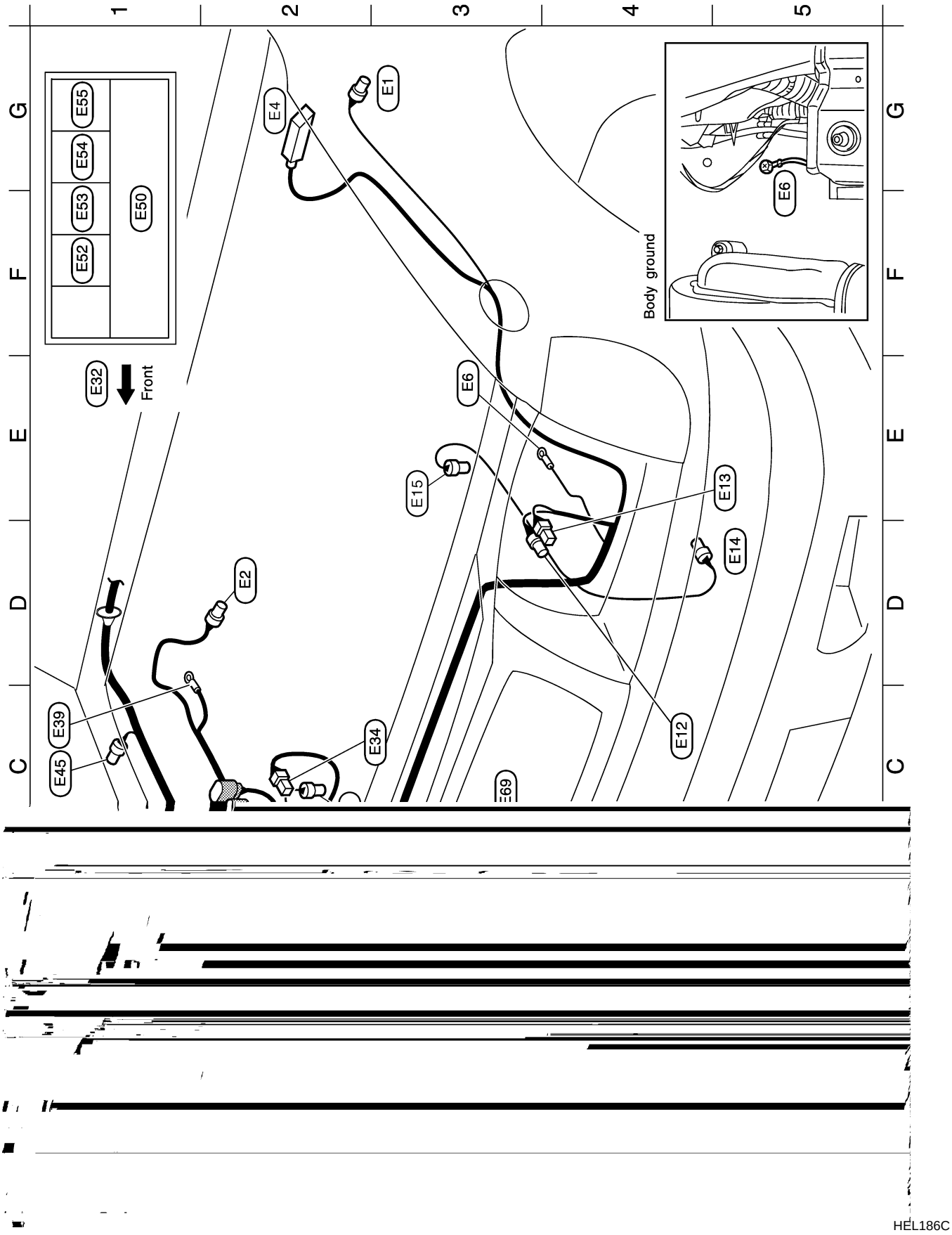
PASSENGER COMPARTMENT

E101 SMJ : To (M5)
E103 B/2 : Fuse block

HEL185C

Engine Room Harness (Cont'd)

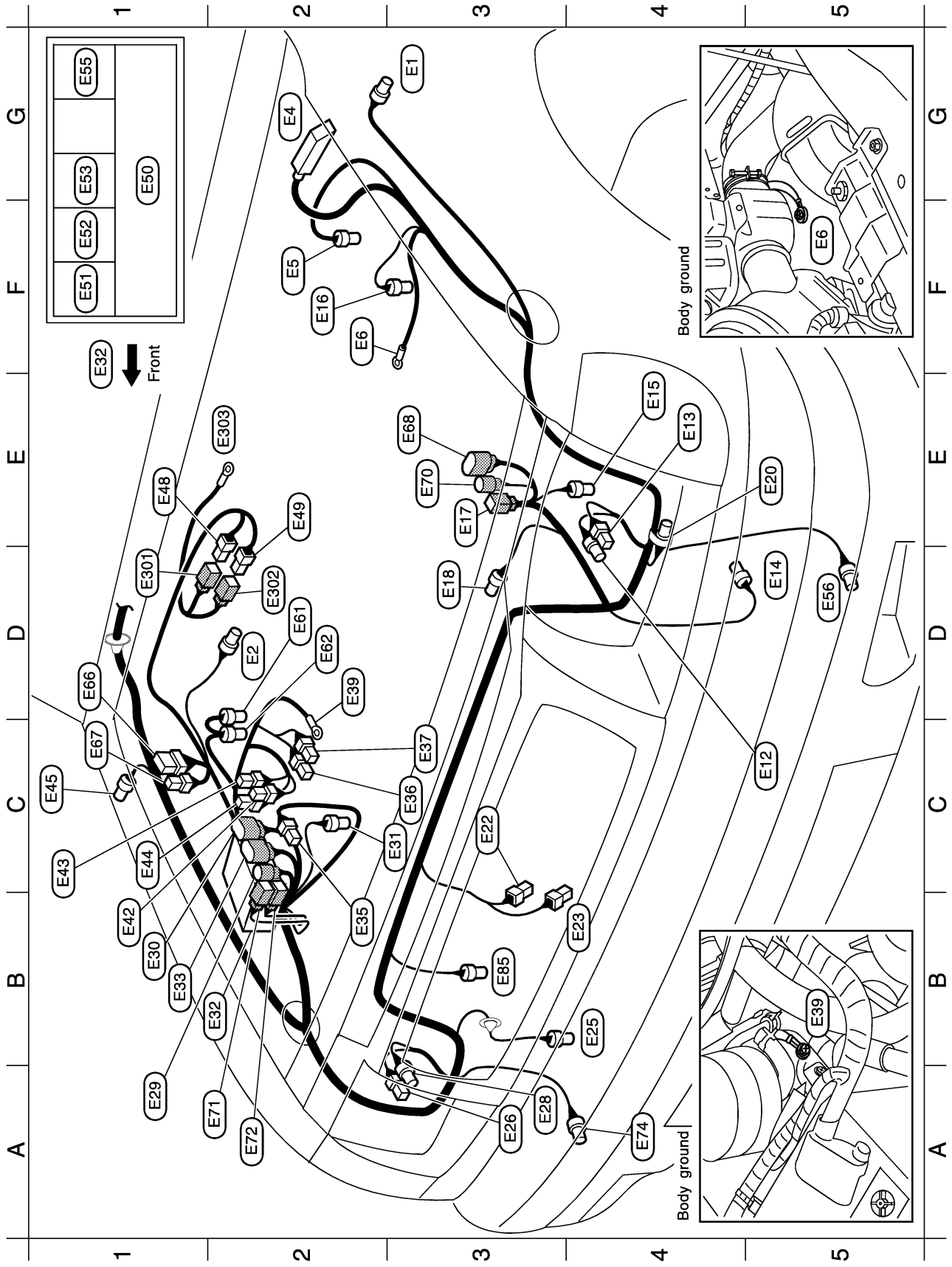
RHD MODELS — GASOLINE ENGINE



HEL186C

Engine Room Harness (Cont'd)

RHD MODELS — DIESEL ENGINE



HEL188C

Engine Room Harness (Cont'd)

G3 (E1) GY/2 : Side turn signal lamp LH
D2 (E2) GY/2 : Brake fluid level switch
G2 (E4) B/31 : ABS actuator and electric unit (For ABS)
F2 (E5) BR/2 : Fuel filter switch
F2 (E6) — : Body ground
C5 (E12) GY/3 : Front combination lamp LH
E4 (E13) B/3 : Headlamp LH
D5 (E14) GY/2 : Washer motor
E4 (E15) BR/2 : Front wheel sensor LH (For ABS)
F2 (E16) GY/2 : Intake air temperature sensor (YD and ZD engines)
E3 (E17) B/2 : To (A2)
D3 (E18) GY/2 : Thermoswitch (QD engine)
E5 (E20) GY/2 : Option connector (For hood switch) (For Europe)
C3 (E22) B/1 : Horn low
B4 (E23) B/1 : Horn high (ZD engine except for Australia, QD engine without ABS and YD engine)
B4 (E25) GY/4 : Triple-pressure switch
A3 (E26) B/3 : Headlamp RH
A3 (E28) GY/3 : Front combination lamp RH
A1 (E29) GY/2 : To (E204)
B1 (E30) GY/8 : To (E203) (With ECM control engine)
C3 (E31) GY/2 : Front wheel sensor RH (For ABS)
B2 (E32) — : Relay box (Fusible link and fuse box)
B1 (E33) SB/8 : To (E205)
B2 (E35) B/1 : To (E206) (TD and QD engines)
C3 (E36) B/1 : IACV-FICD solenoid valve (TD and QD engines)
C3 (E37) B/1 : IACV-FICD solenoid valve (TD and QD engines)
D2 (E39) — : Body ground
B1 (E42) W/1 : Glow relay-1
C1 (E43) W/1 : Glow relay-1
C1 (E44) G/2 : Glow relay-1
C1 (E45) GY/2 : Side turn signal lamp RH
E1 (E48) B/1 : To (E301) (QD engine)
E2 (E49) L/2 : To (E302) (TD engine)
G1 (E50) — : Fusible link and fuse box
F1 (E51) L/4 : Cooling fan relay (Except TD engine)
F1 (E52) L/4 : Air conditioner relay
G1 (E53) W/3 : Horn relay
G1 (E55) BR/6 : ECM relay (YD and ZD engines)
D5 (E56) B/2 : Front fog lamp LH (ZD engine)
D2 (E61) B/2 : EGRC-solenoid valve (Throttle chamber) (TD engine with EGR)
D2 (E62) BR/2 : EGRC-solenoid valve (EGR valve) (TD engine with EGR)
D1 (E66) GY/6 : Dim-dip lamp unit (For Europe)
C1 (E67) GY/4 : Dim-dip lamp unit (For Europe)
E3 (E68) GY/8 : To (A13) (TD and QD engines)
E3 (E70) BR/3 : To (A14) (YD and ZD engines)
A2 (E71) B/2 : To (E231) (YD and ZD engines)
A2 (E72) B/1 : To (E232) (YD and ZD engines)
A4 (E74) B/2 : Front fog lamp RH (ZD engine)
B3 (E85) GY/2 : Cooling fan motor (Except TD engine)

PASSENGER COMPARTMENT

E101 SMJ : To (M5)
E103 B/2 : Fuse block

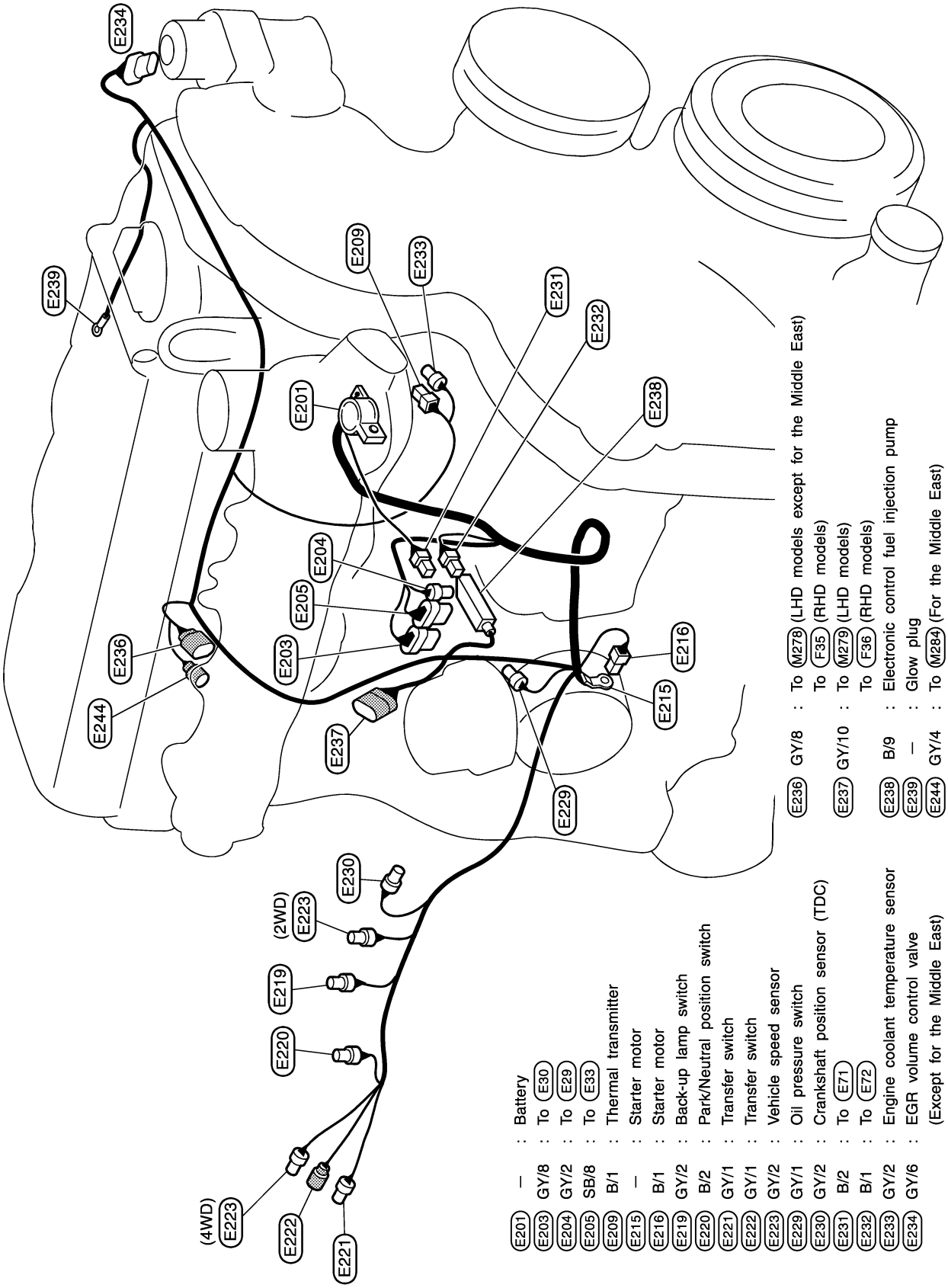
Sub-harness

D1 (E301) B/1 : To (E48) (QD engine)
D2 (E302) L/2 : To (E49) (TD engine)
E2 (E303) — : Glow plug (TD and QD engines)

HEL189C

Engine Harness

YD ENGINE



HEL190C

Chassis Harness and Tail Harness

Tail harness

- (T1) W/6 : Rear combination lamp RH (A-chassis models or with smooth rear body except for Europe and Australia)
- (T2) W/8 : Rear combination lamp RH (For Europe and Australia except A-chassis models or with regular rear body except A-chassis models)
- (T3) GY/2 : License plate lamp RH (With step bumper)
- (T4) SB/8 : To (C7)
- (T5) GY/2 : License plate lamp RH (Without step bumper)
- (T6) GY/2 : License plate lamp LH (Without step bumper)
- (T7) B/2 : License plate lamp LH (With step bumper)
- (T8) W/6 : Rear combination lamp LH (A-chassis models or with smooth rear body except for Europe and Australia)
- (T9) W/8 : Rear combination lamp LH (For Europe and Australia except A-chassis models or with regular rear body except A-chassis models)
- (T10) GY/2 : Rear fog lamp (RHD A-chassis models for Europe)
- (T12) GY/2 : Rear fog lamp (LHD A-chassis models for Europe)

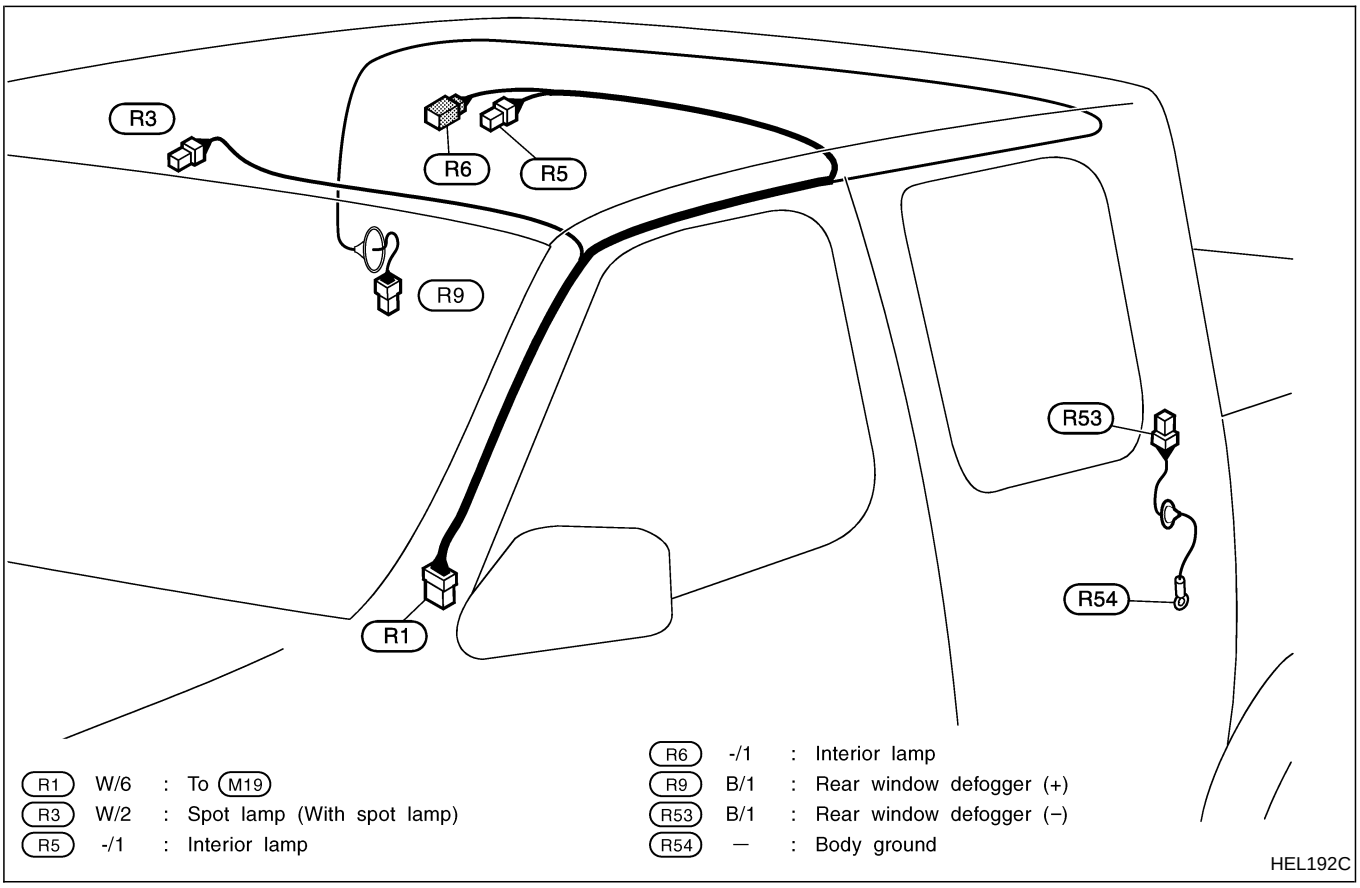
Chassis harness

- (C2) W/6 : To (M112) (With ABS)
- (C3) GY/5 : Fuel level sensor unit and fuel pump
- (C5) SB/4 : To rear wheel sensor sub-harness (For ABS) (4WD models and 2WD models with LT30 rear brake)
- (C6) GY/2 : Rear wheel sensor (For ABS) (2WD models with LT26B rear brake)
- (C7) SB/8 : To (T4)
- (C9) W/16 : To (M121)
- (C10) BR/2 : High-mounted stop lamp (With guard bar)
- (C11) GY/2 : Fuel lid opener actuator (For the Middle East)

HEL191C

Room Lamp Harness/LHD Models

DOUBLE CAB



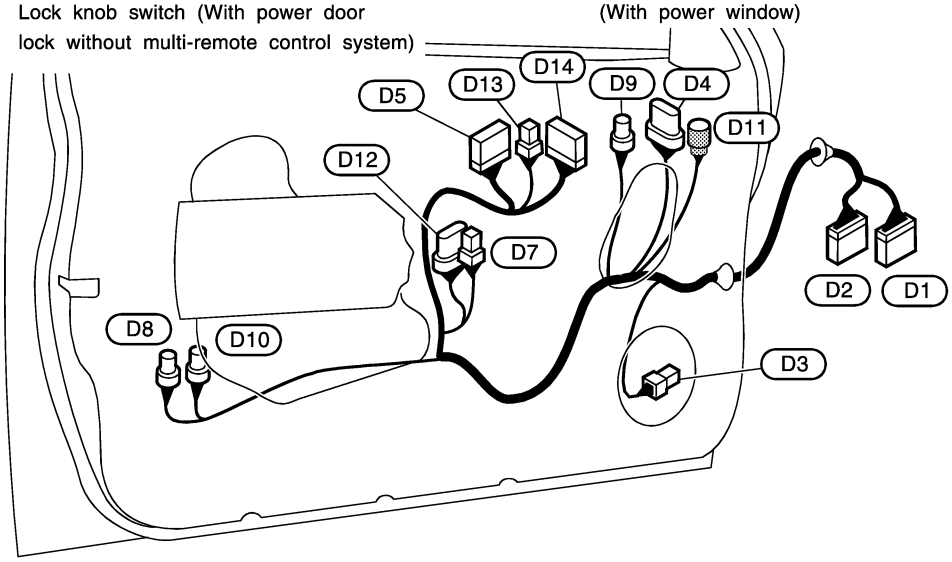
R1	W/6	:	To M19
R3	W/2	:	Spot lamp (With spot lamp)
R5	-/1	:	Interior lamp
R6	-/1	:	Interior lamp
R9	B/1	:	Rear window defogger (+)
R53	B/1	:	Rear window defogger (−)
R54	—	:	Body ground

HEL192C

Front Door Harness (LH side)

LHD MODELS

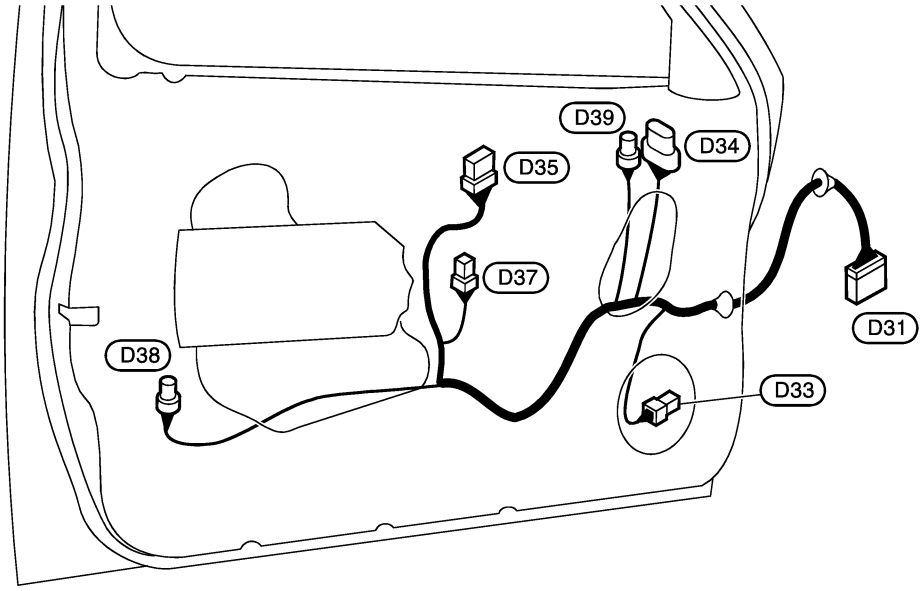
(D1) W/16 : To (M3)
(D2) W/12 : To (M4) (With power window)
(D3) BR/2 : Front speaker
(D4) GY/5 : Door mirror actuator (With sail mounted power door mirror)
(D5) W/16 : Power window main switch
(D7) B/2 : Power window motor (With power window without interruption detection function)
(D8) GY/2 : Lock 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)
(D11) GY/3 : Door mirror actuator (With door mounted power door mirror)
(D12) SB/6 : Power window motor (With power window with interruption detection function)
(D13) W/3 : Power window main switch (With power window with interruption detection function)
(D14) W/10 : Door mirror remote control switch (With power window)



HEL193C

RHD MODELS

(D31) W/10 : To (M49)
(D33) BR/2 : Front speaker
(D34) GY/5 : Door mirror actuator (With power door mirror)
(D35) W/8 : Power window sub-switch (With power window)
(D37) B/2 : Power window motor (With power window)
(D38) SB/4 : Door lock actuator (With power door lock)
(D39) BR/3 : Door mirror defogger (With power door mirror for Europe)

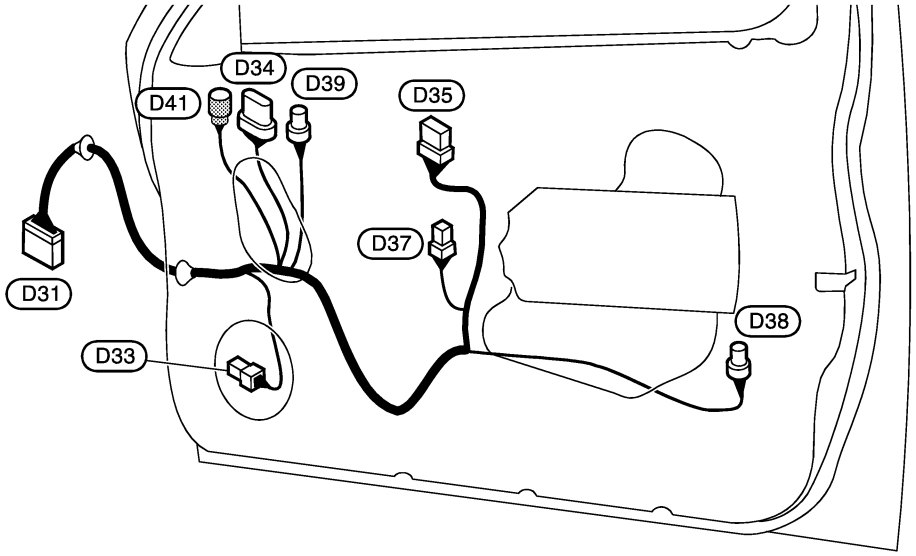


HEL194C

Front Door Harness (RH side)

LHD MODELS

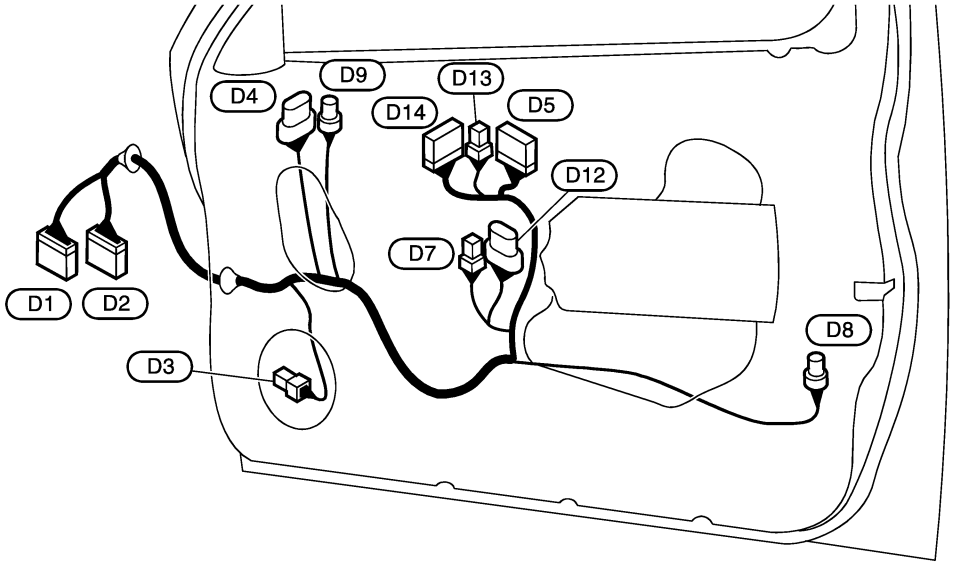
(D31) W/10 : To (M49)
(D33) BR/2 : Front speaker
(D34) GY/5 : Door mirror actuator (With sail mounted power door mirror)
(D35) W/8 : Power window sub-switch (With power window)
(D37) B/2 : Power window motor (With power window)
(D38) SB/4 : Door lock actuator (With power door lock)
(D39) BR/3 : Door mirror defogger (With power door mirror for Europe)
(D41) BR/3 : Door mirror actuator (With door mounted power door mirror)



HEL195C

RHD MODELS

(D1) W/16 : To (M3)
(D2) 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 motor (With power window except for Europe)
(D8) GY/2 : Lock knob switch (With power door lock)
(D9) BR/3 : Door mirror defogger (With power window for Europe)
(D12) SB/6 : Power window motor (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 (With power window)

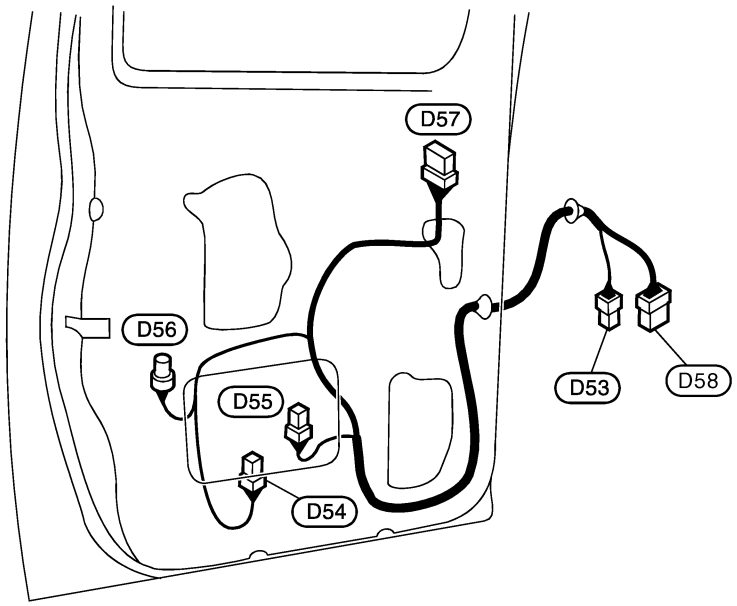


HEL196C

Rear Door Harness

LH SIDE

(D53) BR/2 : To (M105)
(D54) B/2 : Rear speaker
(D55) B/2 : Power window motor
(D56) SB/4 : Door lock actuator
(D57) W/8 : Power window sub-switch
(D58) W/6 : To (M130)



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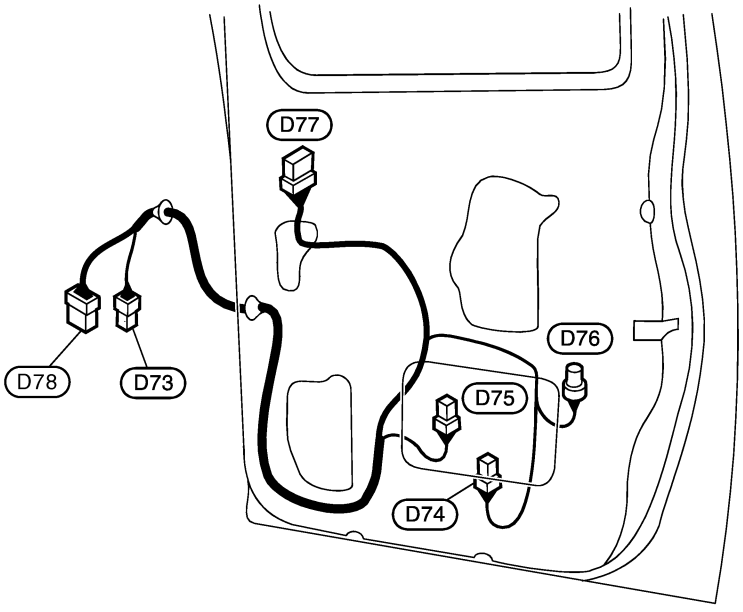
RH SIDE

(D73) BR/2 : To (M113)
(D74) B/2 : Rear speaker
(D75) B/2 : Power window motor
(D76) SB/4 : Door lock actuator
(D77) W/8 : Power window sub-switch
(D78) W/6 : To (M131)



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