

SECTION **EL****When you read wiring diagrams:**

- Read GI section, "HOW TO READ WIRING DIAGRAMS".

When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES" and "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT".

- Check for any service bulletins before servicing the vehicle.

MODIFICATION NOTICE:

- Wiring Diagrams have been changed.

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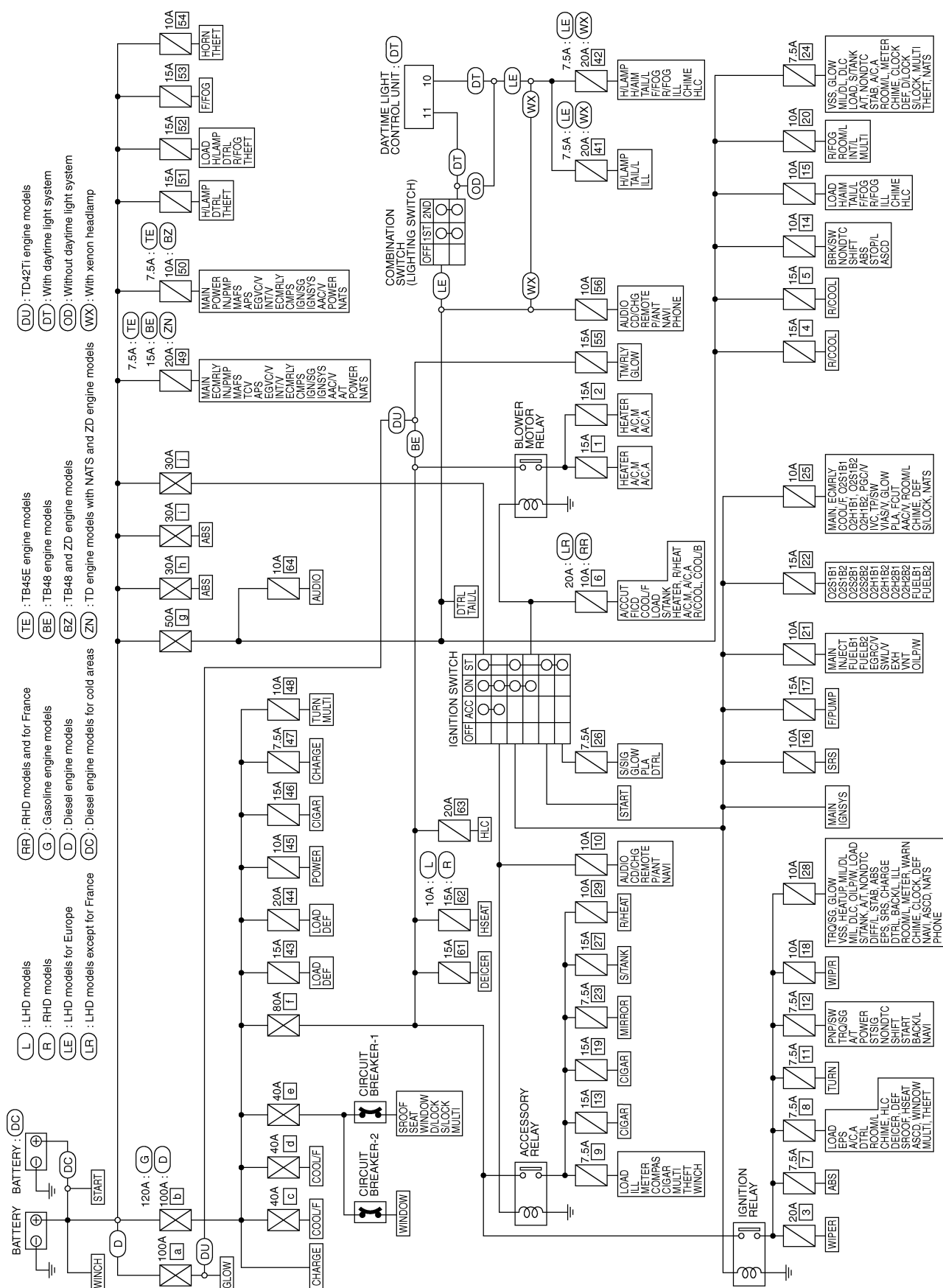
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Schematic



Wiring Diagram — POWER —

BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

EL-POWER-03

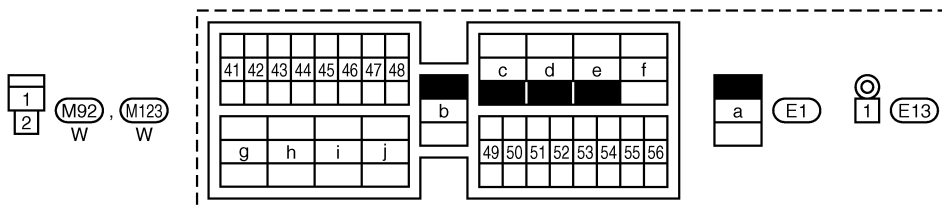
BATTERY

Legend:

- G** : Gasoline engine models
- D** : Diesel engine models
- DC** : Diesel engine models for cold areas
- DU** : TD42Ti engine models

Wiring Details:

- Top Left Battery:** Connected to **E206** (1 B/Y), **E189** (1 B/R), and **E13** (1 W/R).
- Top Right Battery:** Connected to **E229** (1 DC B/Y).
- Central Fuses:**
 - 100A a:** Connected to **W/R** and **D**.
 - 120A:** Connected to **G**.
 - 100A b:** Connected to **D**.
 - 40A c:** Connected to **W/R**.
 - 40A d:** Connected to **LG**.
 - 40A e:** Connected to **W/L**.
- Bottom Left:**
 - To EC-GLOW:** Connected via **D** and **DU**.
 - To EL-CHARGE:** Connected via **W**.
- Bottom Center:**
 - To EC-COOL/F:** Connected via **W/R** and **LG**.
- Bottom Right:**
 - To EL-SROOF, EL-SEAT, EL-WINDOW, EL-D/LOCK, EL-S/LOCK, EL-MULTI:** Connected via **W/L** and **W/R** through **CIRCUIT BREAKER-1** (M92).
 - To EL-WINDOW:** Connected via **W/L** and **W/B** through **CIRCUIT BREAKER-2** (M123).
- Other Components:**
 - To SE-WINCH:** Connected via **W/R**.
 - To EL-START:** Connected via **W/R**.
 - To EL-POWER-03:** Connected via **A** (120A).
 - Next page:** Connected via **B** (100A) and **C** (W).



(M21), (E127)

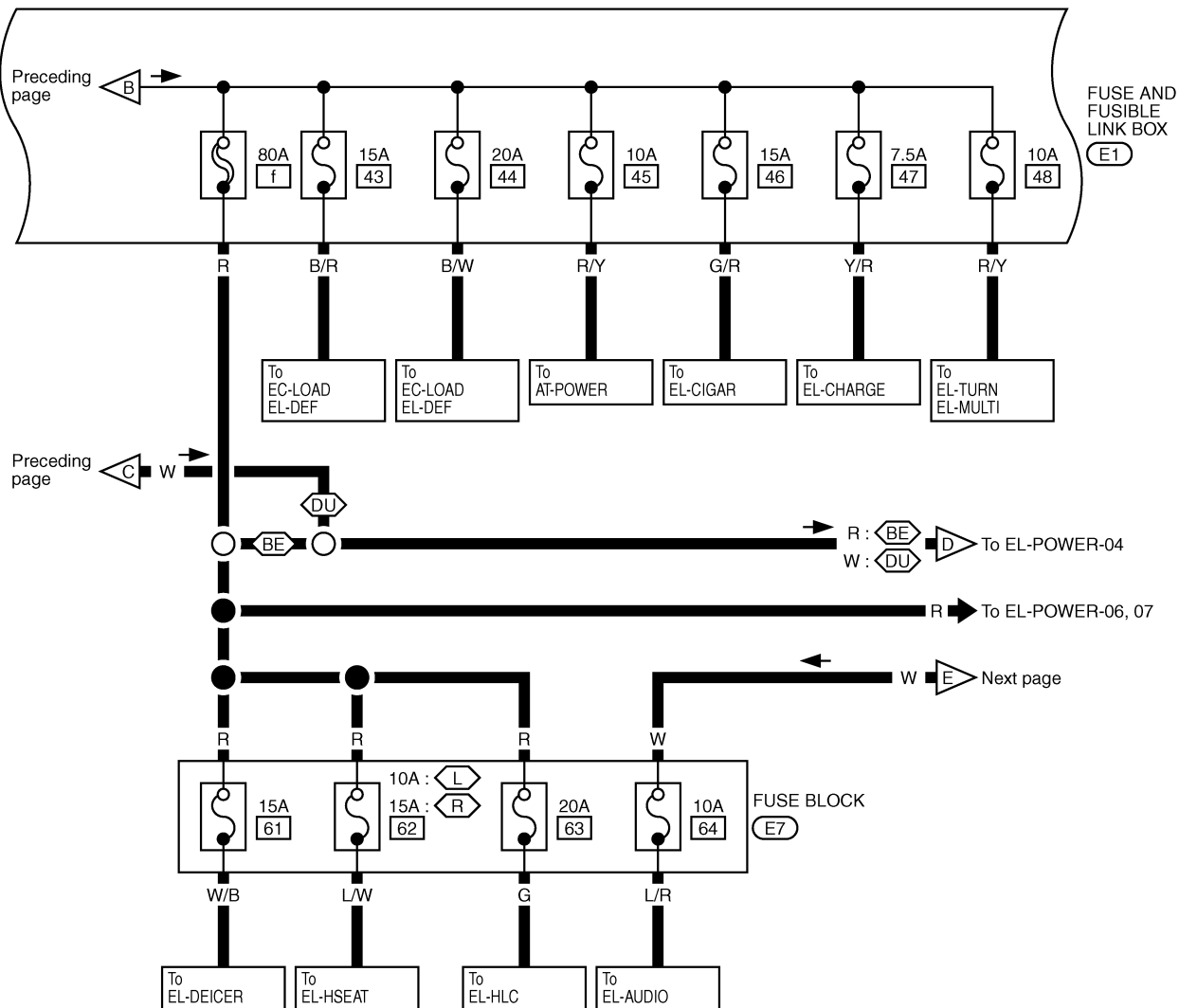
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POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-02

- L : LHD models
- R : RHD models
- BE : TB48 engine models
- DU : TD42Ti engine models



41	42	43	44	45	46	47	48	b	c	d	e	f
g	h	i	j	49	50	51	52		53	54	55	56

(E1)

64	63	62	61
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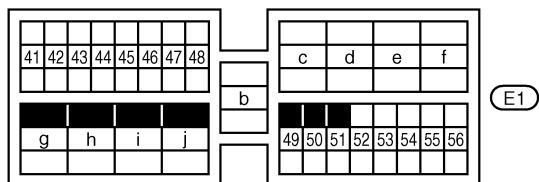
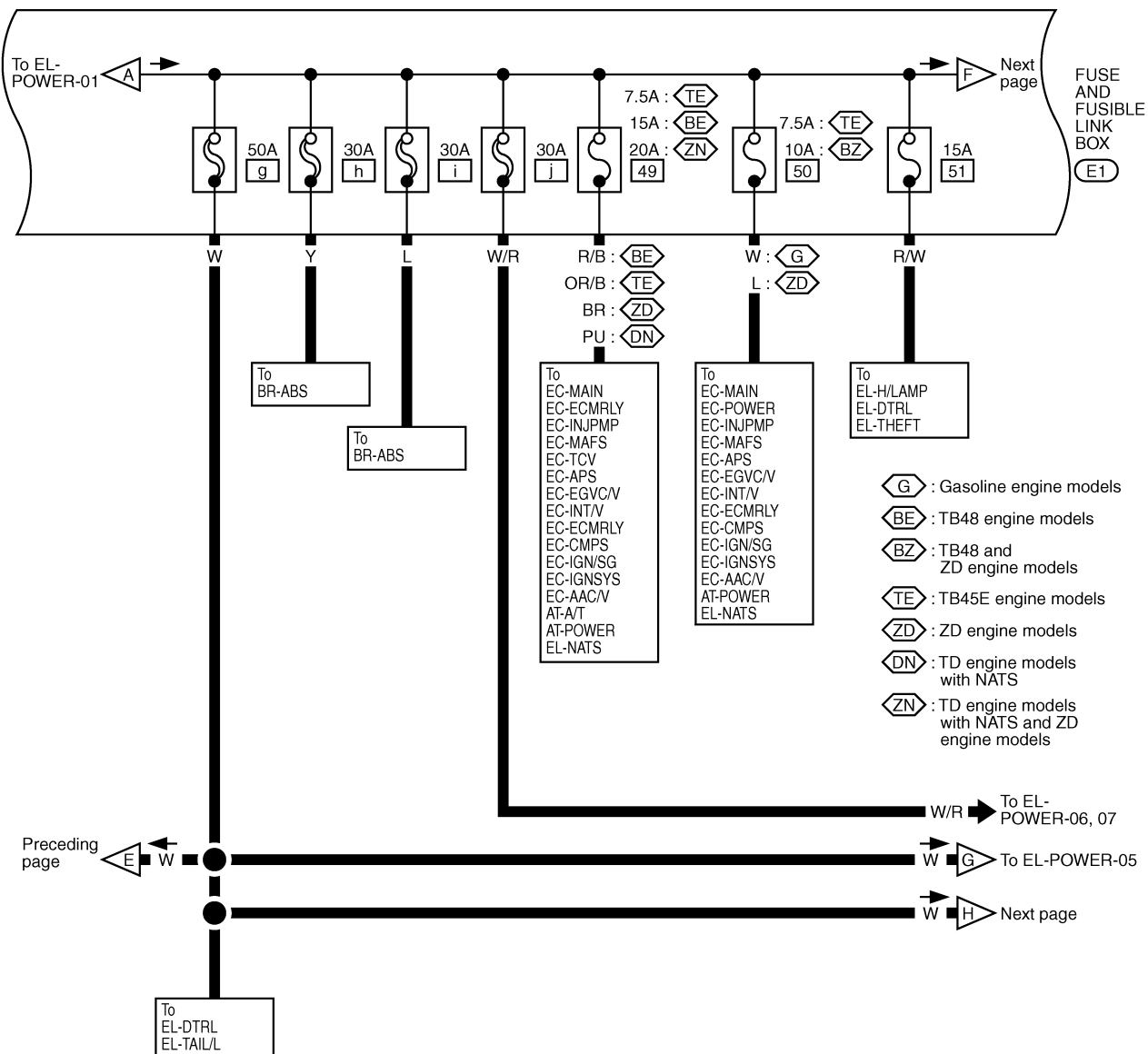
(E7)

TEL963M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-03



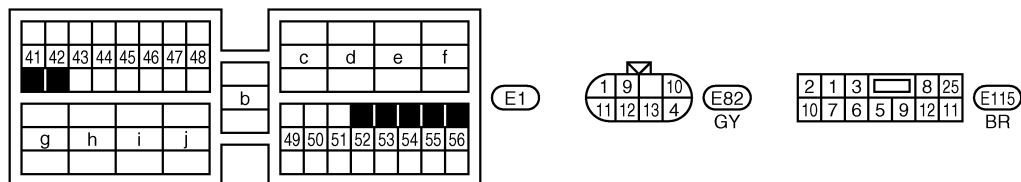
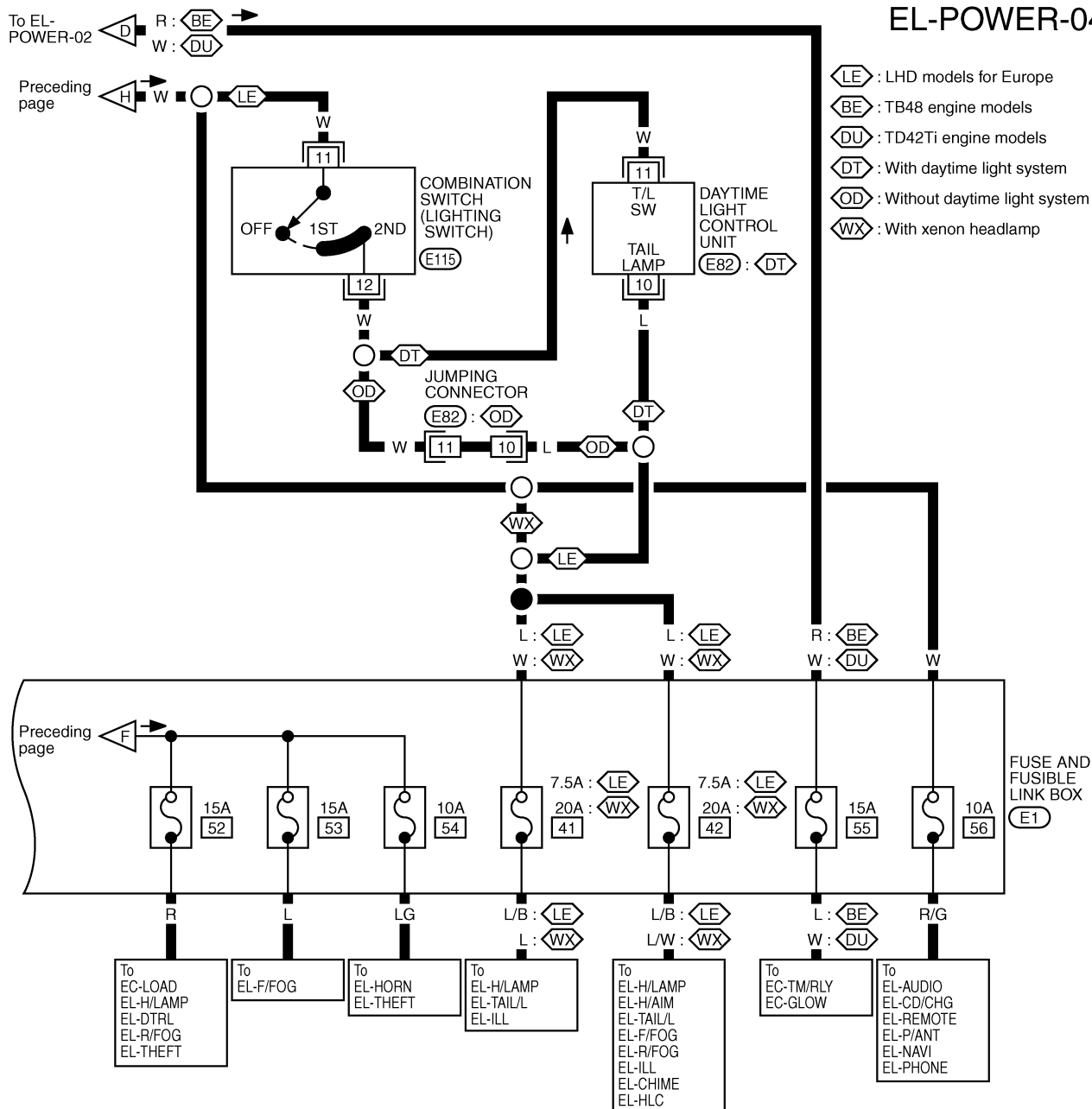
TEL964M

EL-4008

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-04

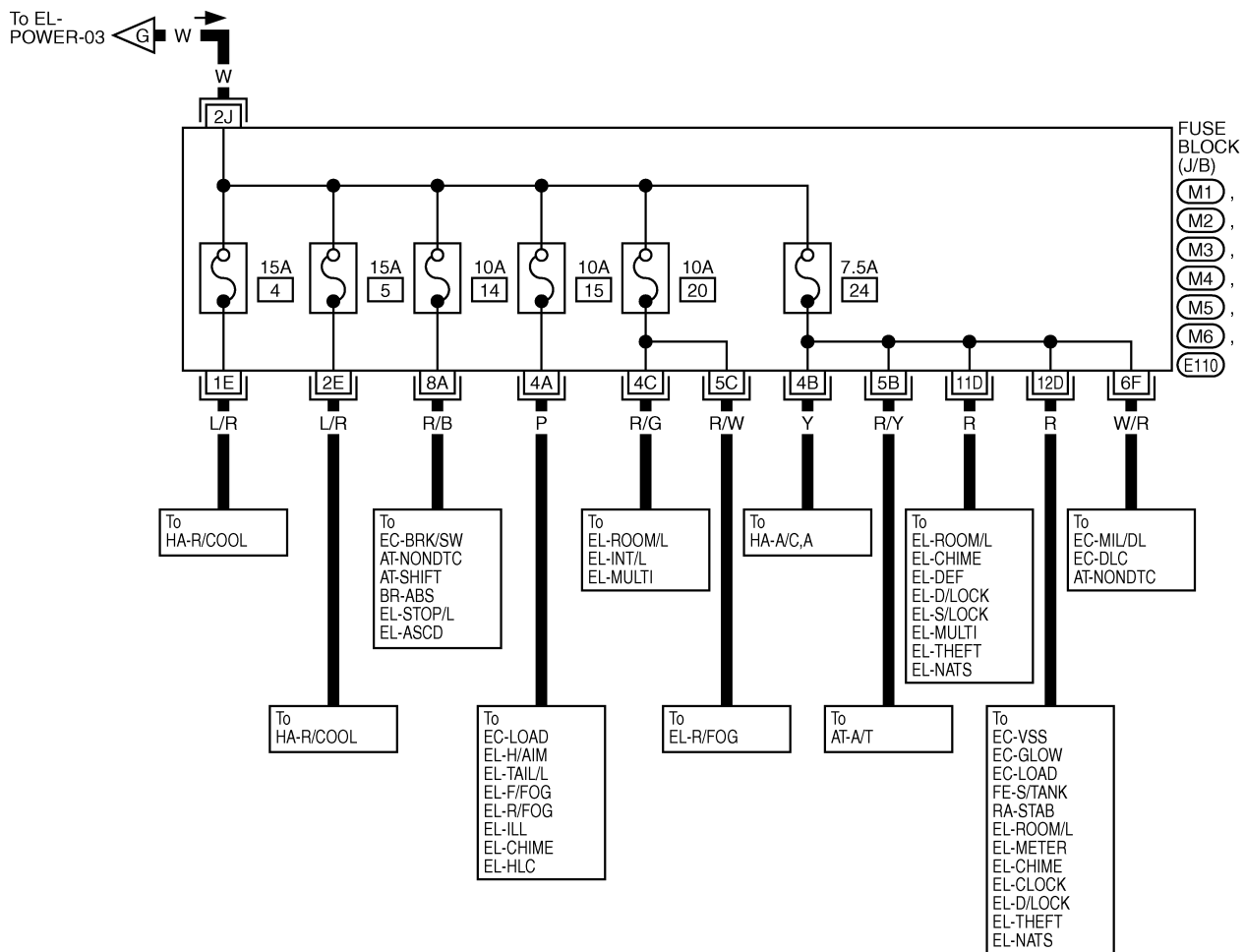


TEL965M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-05



Refer to last page (Foldout page).

M1

M2

M3

M4

M5

M6

E110

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL966M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

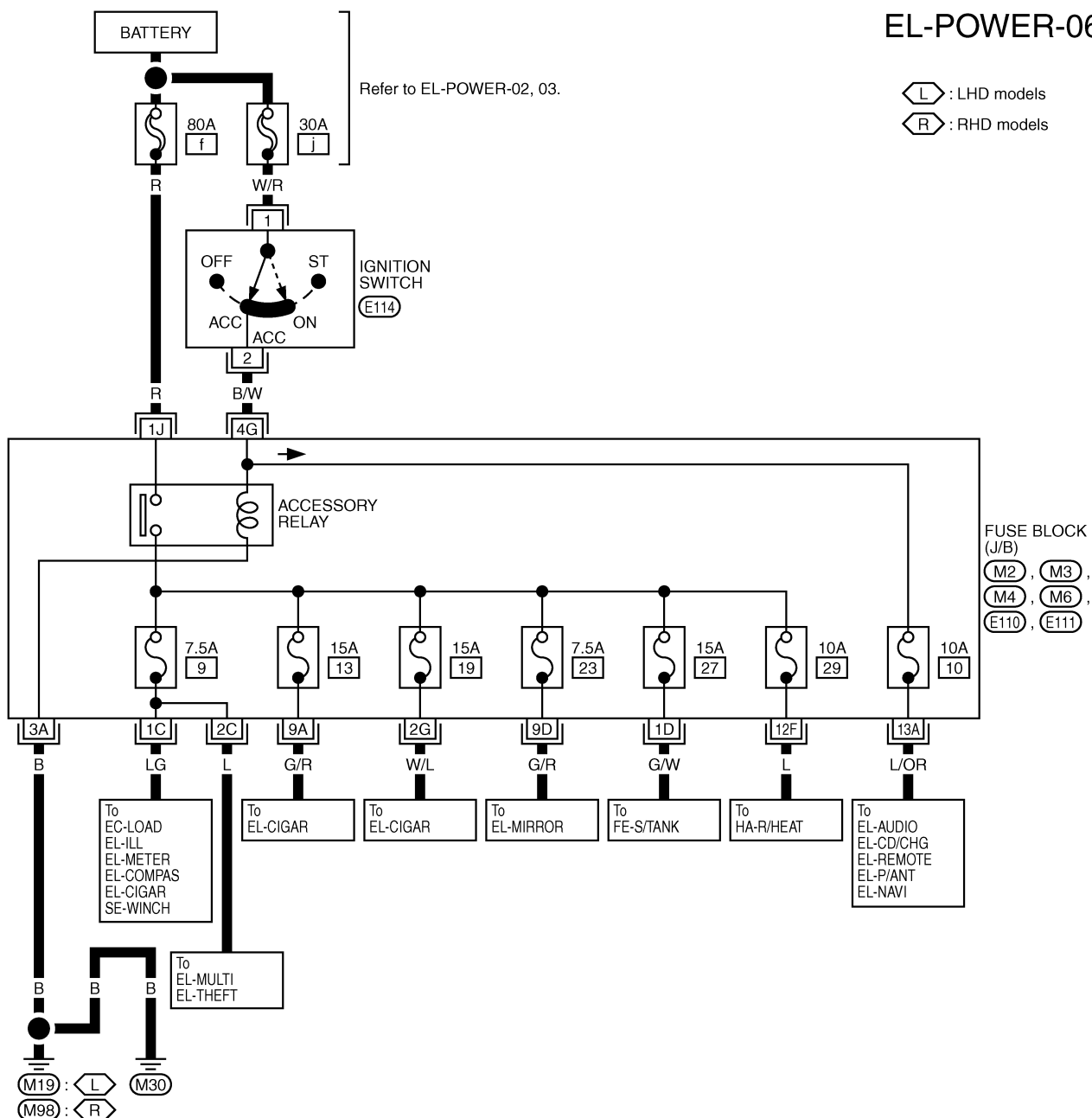
Wiring Diagram — POWER — (Cont'd)

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

EL-POWER-06

L : LHD models

R : RHD models



3	5	1
4	2	6

E114
W

Refer to last page (Foldout page).

M2	M3	M4	M6
E110	E111		

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL967M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

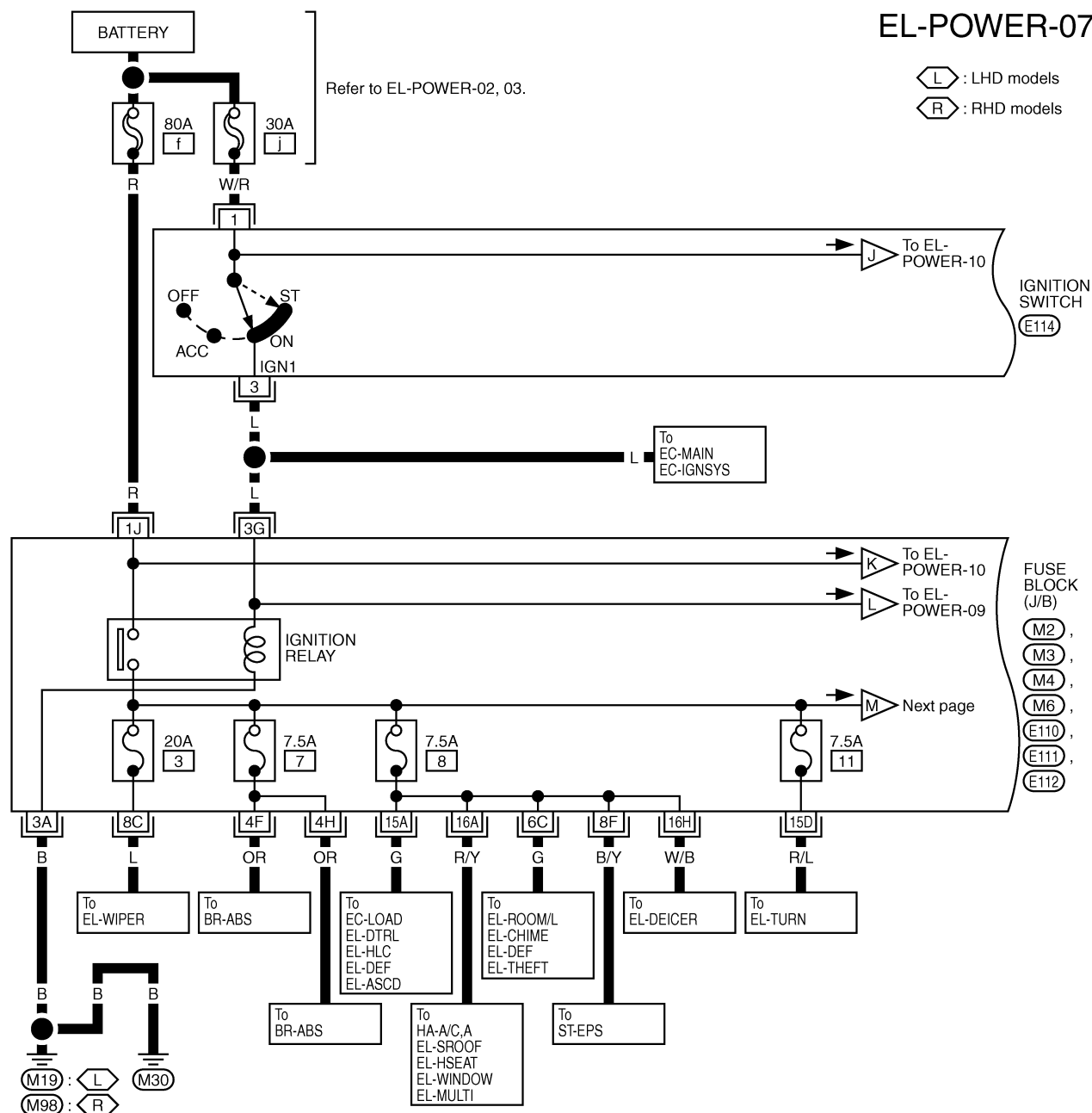
Wiring Diagram — POWER — (Cont'd)

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

EL-POWER-07

L : LHD models

R : RHD models



3	5	1
4	2	6

E114
W

Refer to last page (Foldout page).

M2	M3	M4	M6
E110	E111	E112	

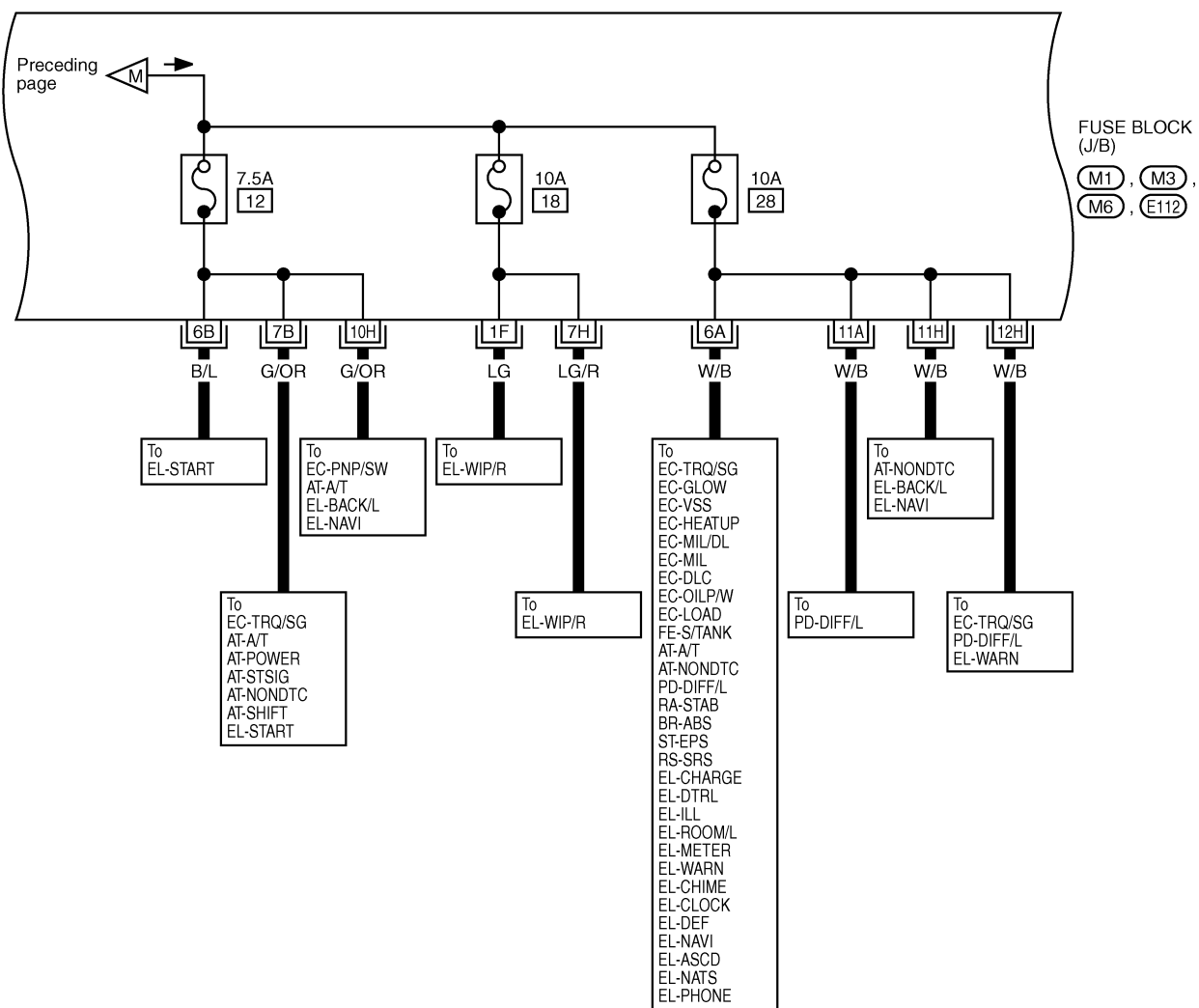
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL968M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-08



Refer to last page (Foldout page).

M1, M3, M6, E112				
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL969M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-09

(G) : Gasoline engine models

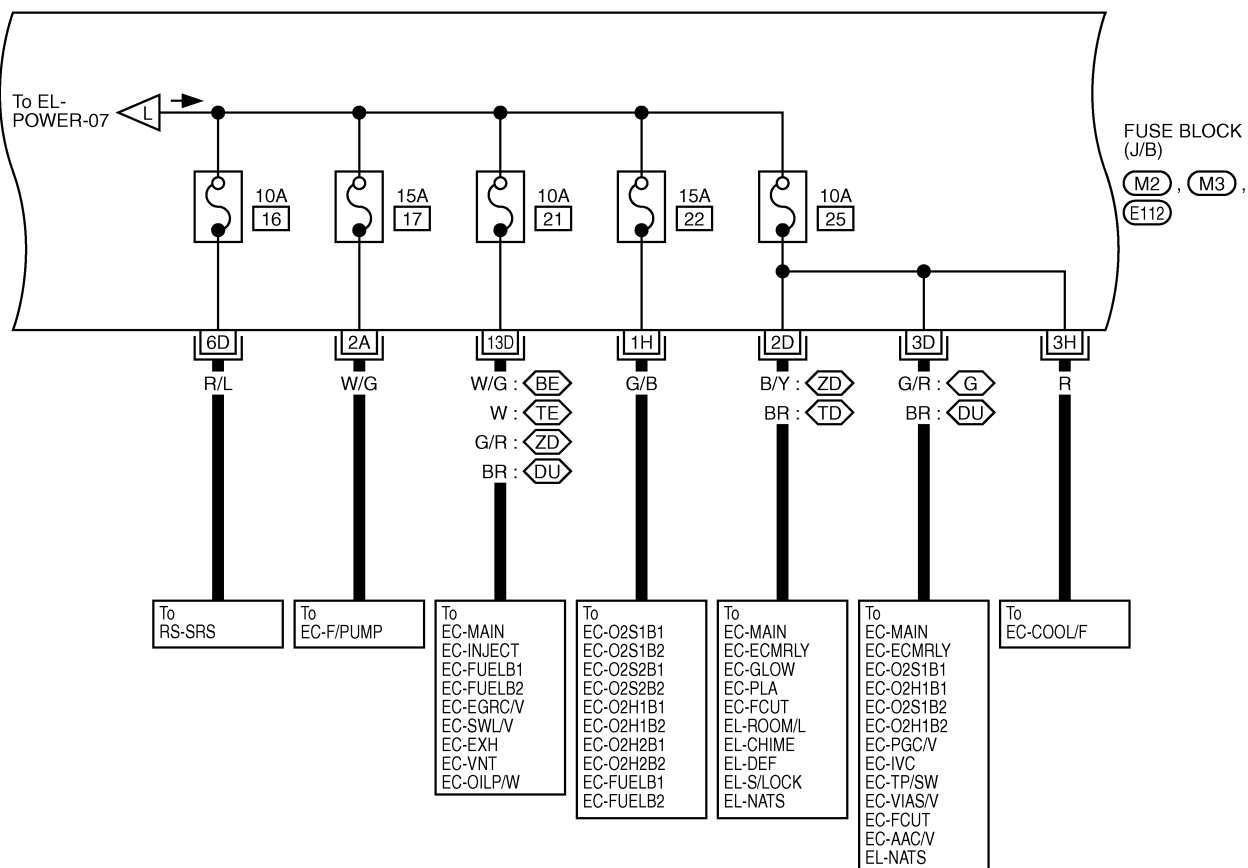
(BE) : TB48 engine models

(TE) : TB45E engine models

(ZD) : ZD engine models

(TD) : TD engine models

(DU) : TD42Ti engine models



Refer to last page (Foldout page).

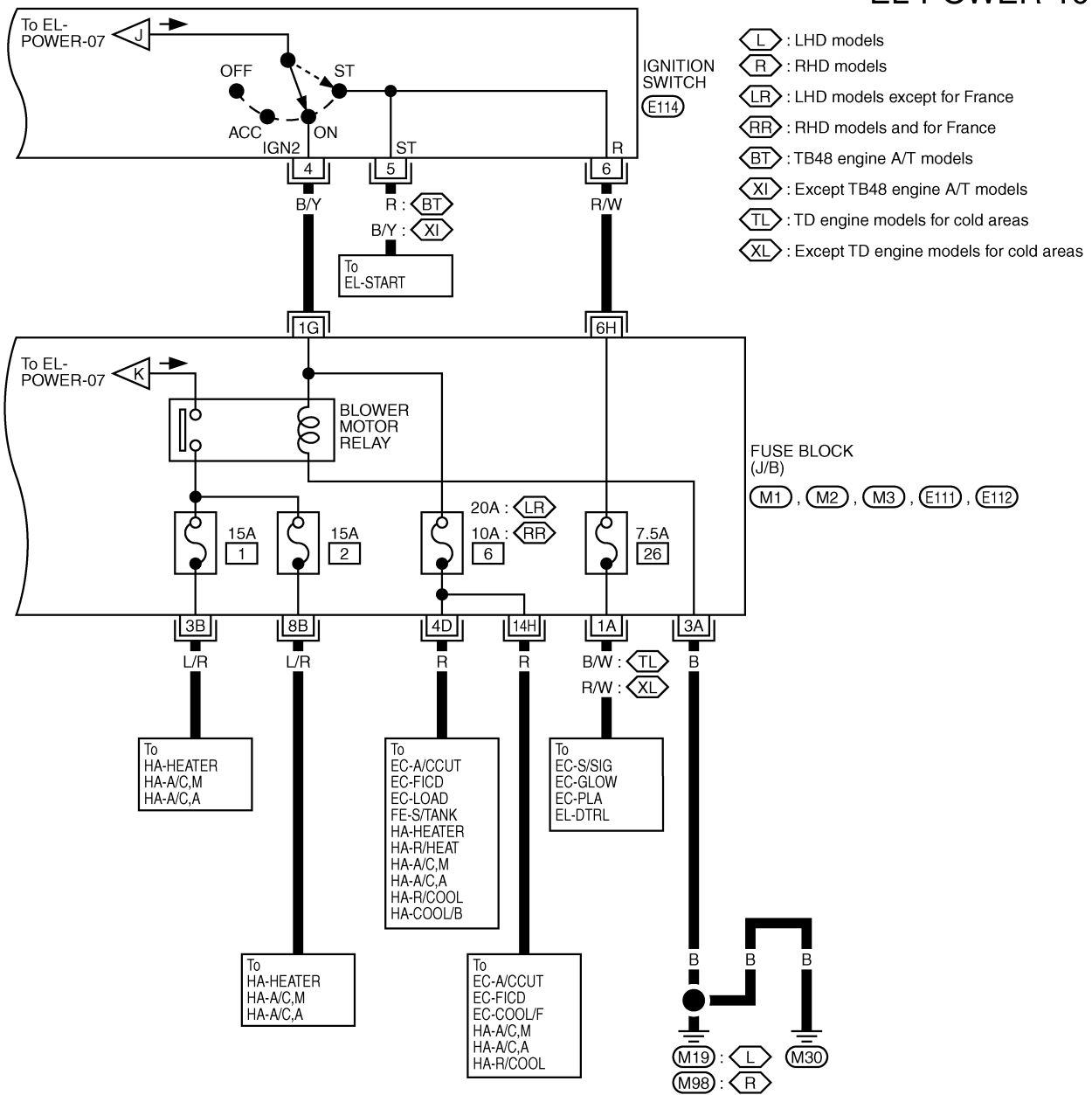
(M2), (M3), (E112)				
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL970M

POWER SUPPLY ROUTING/WAGON AND HARDTOP MODELS

Wiring Diagram — POWER — (Cont'd)

EL-POWER-10



3	5	1
4	2	6

E114
W

Refer to last page (Foldout page).

M1

M2

M3

E111

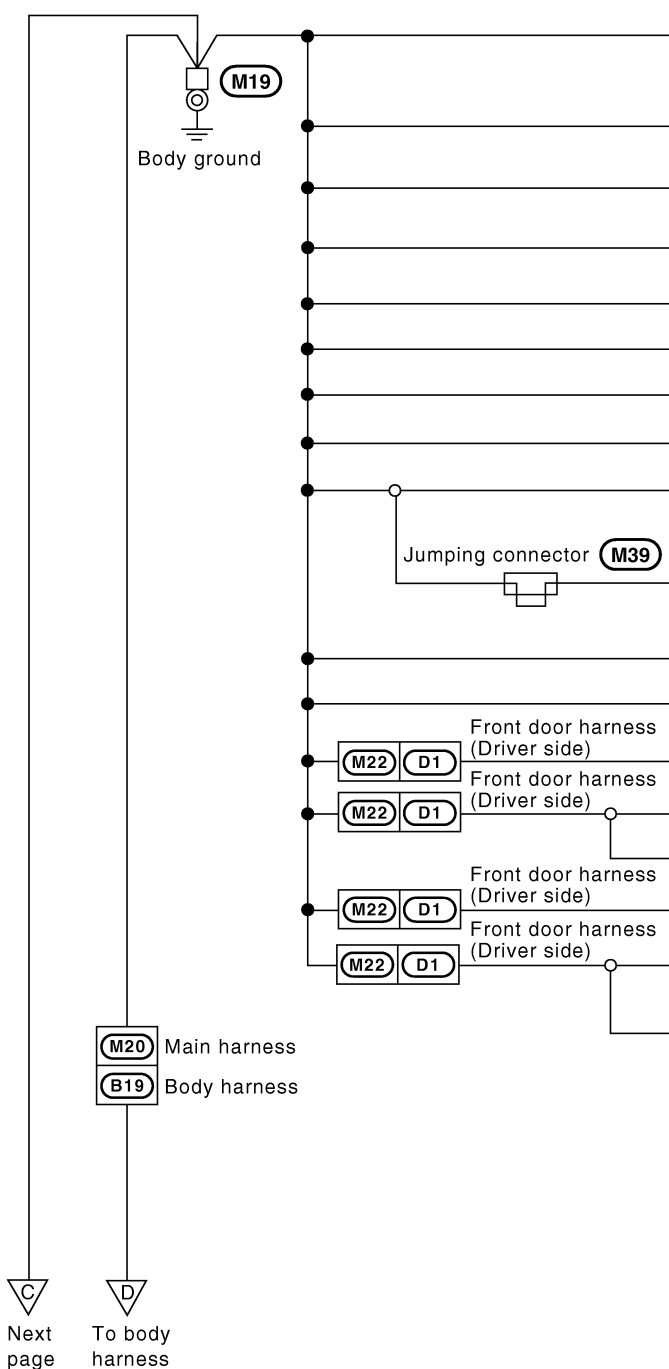
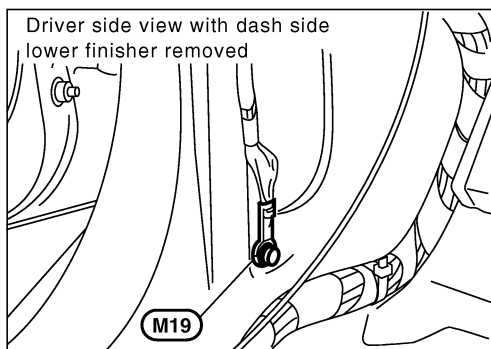
E112

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23		
24	25	26		
27	28	29		

TEL971M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

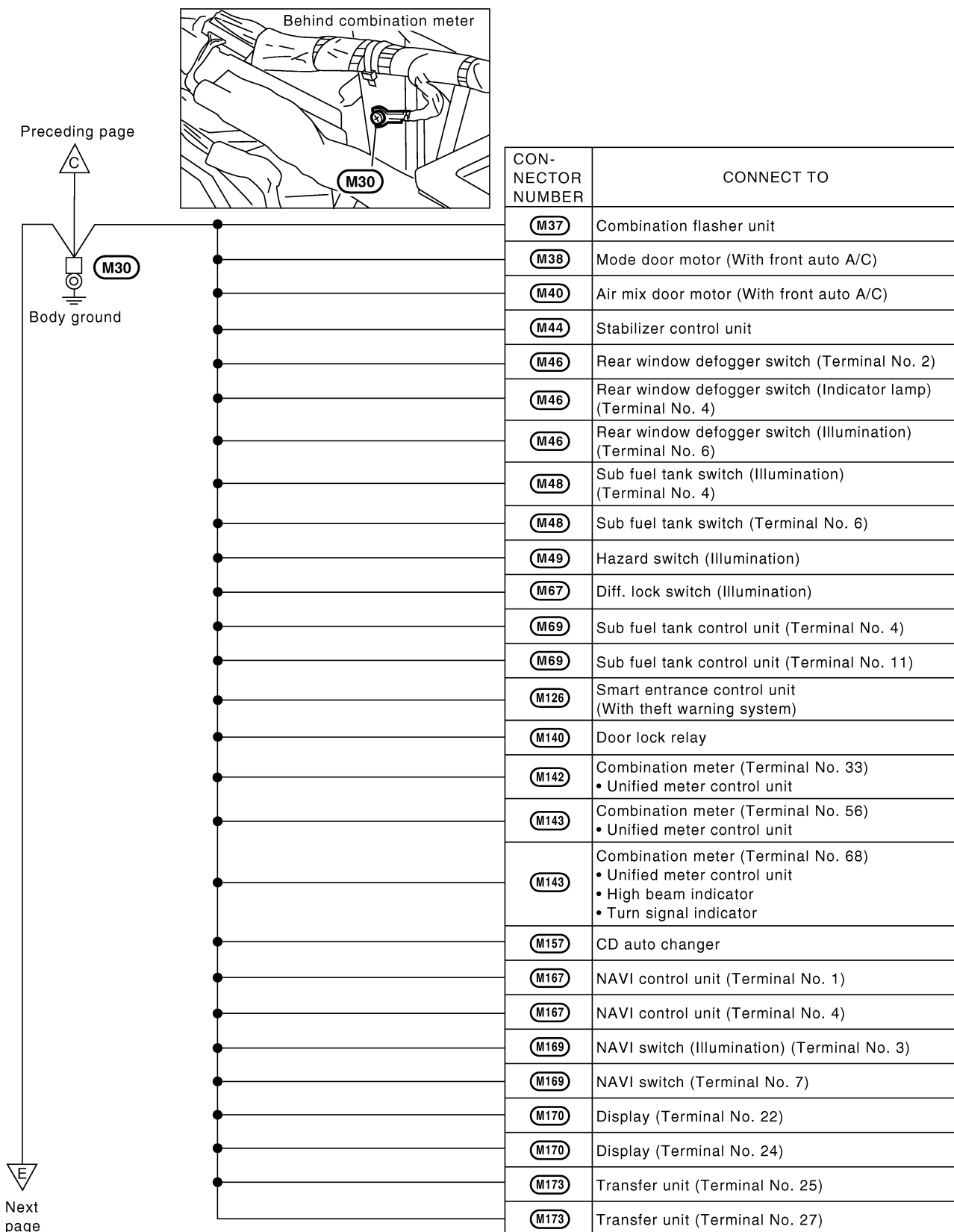
Main Harness/LHD Models



CON-NECTOR NUMBER	CONNECT TO
M3	Fuse block (J/B) • Accessory relay • Ignition relay • Blower motor relay
M10	Data link connector (Terminal No. 4) (With CONSULT-II)
M11	Headlamp aiming switch (Terminal No. 2) (For the Middle East)
M11	Headlamp aiming switch (Illumination) (Terminal No. 4) (For the Middle East)
M13	Heat up switch (Illumination) (Terminal No. 2)
M13	Heat up switch (Indicator) (Terminal No. 6)
M14	Door mirror remote control switch (Illumination)
M17	ASCD control unit
M39	Illumination control switch (With illumination control switch)
M142	Combination meter (Terminal No. 34) (Without illumination control switch) • Unified meter control unit • Meter illumination (Without fine vision meter)
M111	Heated seat relay
M166	Combination switch (Spiral cable)
D3	Door mirror (Driver side) • Door mirror defogger
D5	Power window main switch (Hardtop models)
D10	Power window main switch (Wagon models)
D6	Front door key cylinder switch (Driver side) (With theft warning system)
D8	Front door lock switch (Driver side) (Without multi-remote control system)
D9	Front door lock actuator (Driver side) (Door unlock sensor) (With multi-remote control system and theft warning system)

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

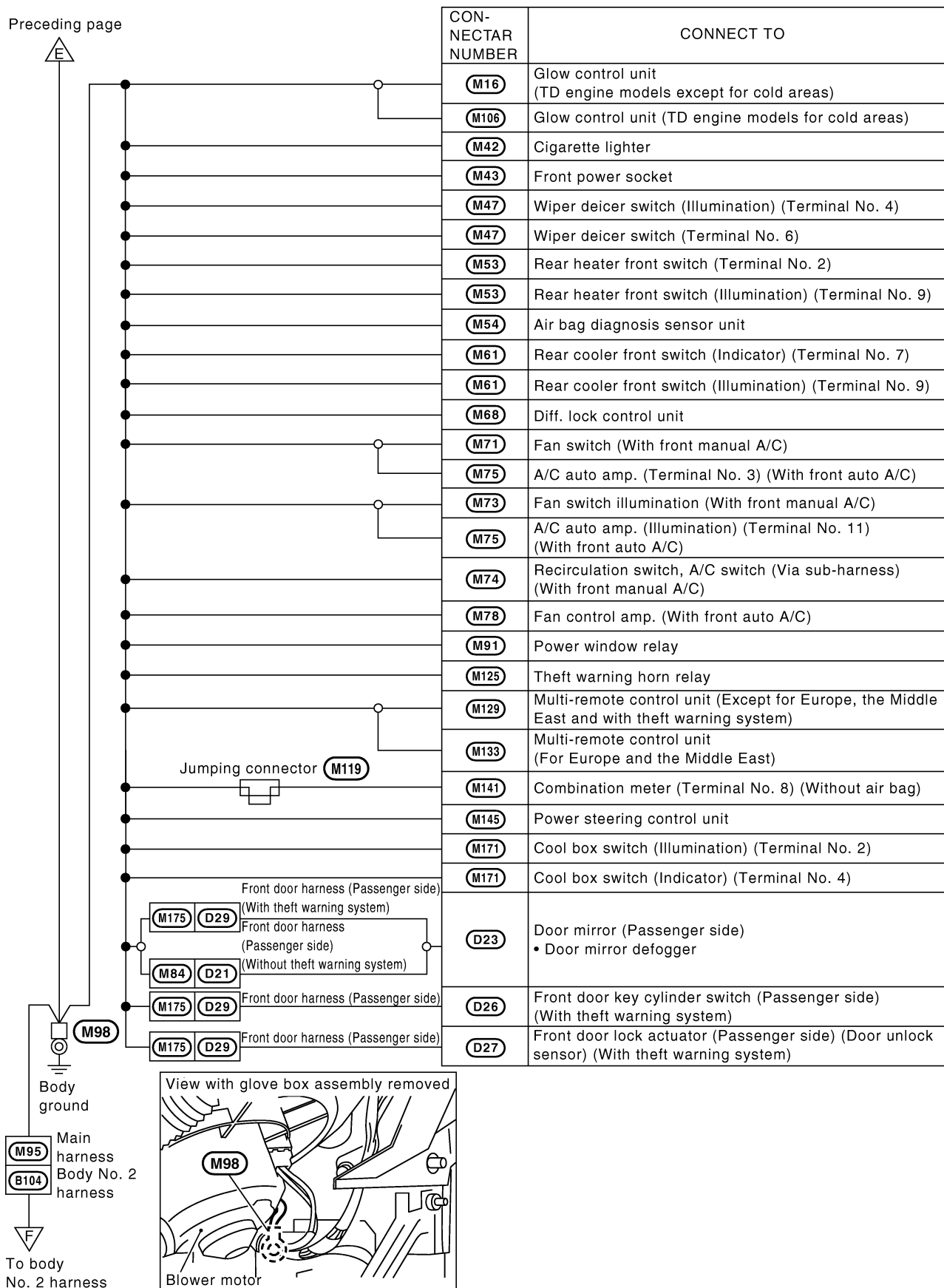
Main Harness/LHD Models (Cont'd)



CEL560M

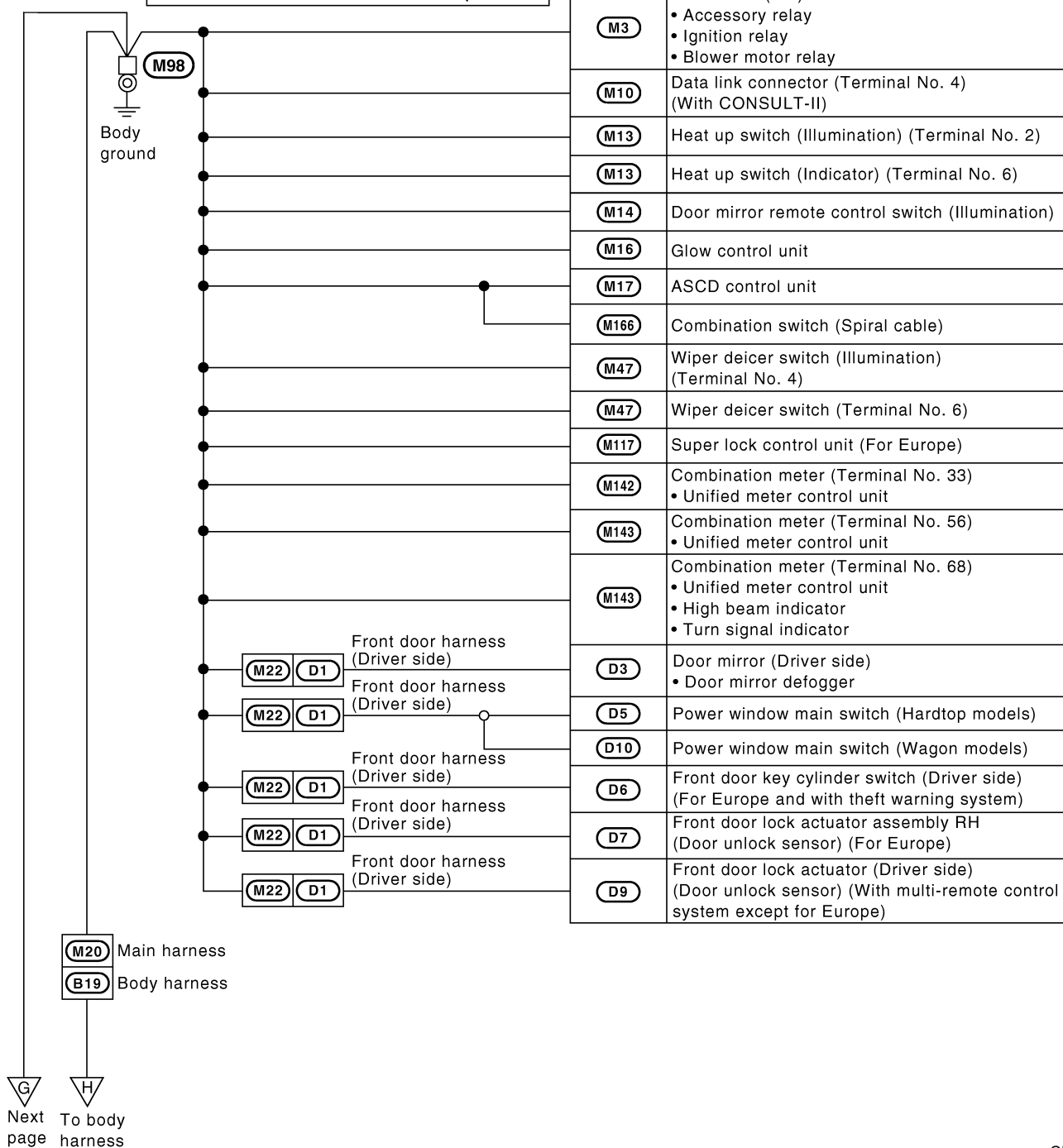
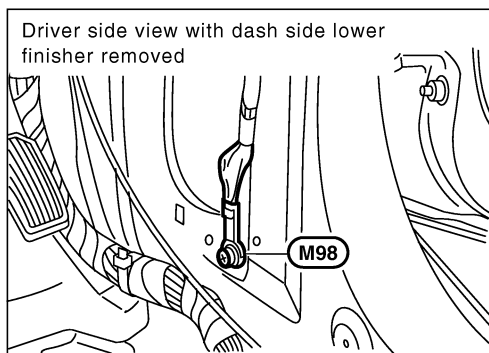
GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Main Harness/LHD Models (Cont'd)



CEL561M

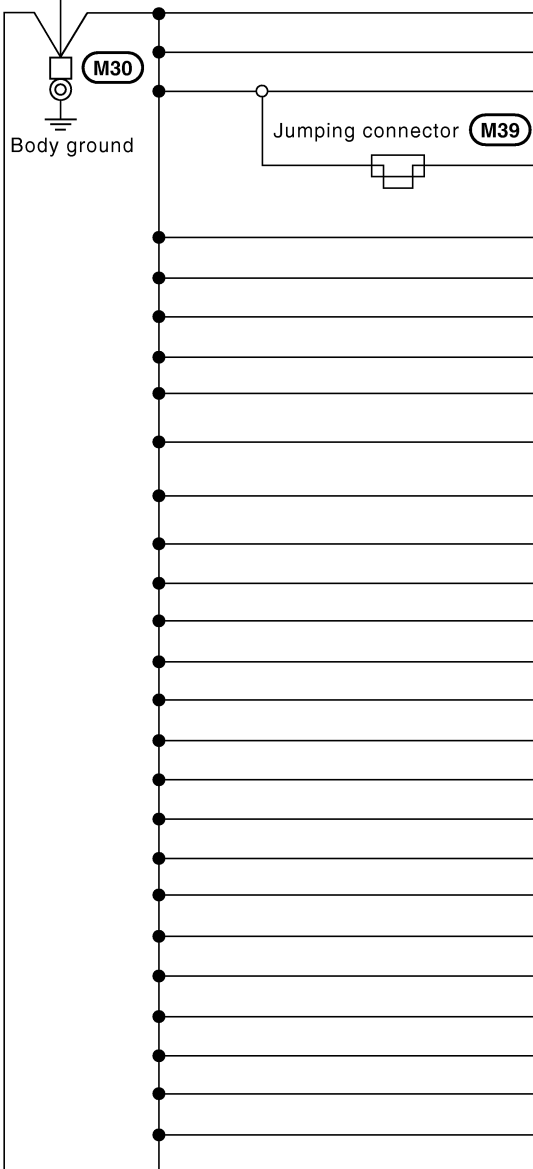
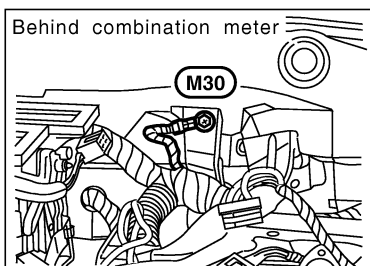
Main Harness/RHD Models



GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Main Harness/RHD Models (Cont'd)

Preceding page



CON- NECTOR NUMBER	CONNECT TO
M37	Combination flasher unit
M38	Mode door motor (With front auto A/C)
M39	Illumination control switch (With illumination control switch)
M142	Combination meter (Terminal No. 34) (Without illumination control switch) • Unified meter control unit • Meter illumination (Without fine vision meter)
M40	Air mix door motor (With front auto A/C)
M42	Cigarette lighter
M43	Front power socket
M44	Stabilizer control unit
M46	Rear window defogger switch (Terminal No. 2)
M46	Rear window defogger switch (Indicator lamp) (Terminal No. 4)
M46	Rear window defogger switch (Illumination) (Terminal No. 6)
M48	Sub fuel tank switch (Illumination) (Terminal No. 4)
M48	Sub fuel tank switch (Terminal No. 6)
M49	Hazard switch (Illumination)
M69	Sub fuel tank control unit (Terminal No. 4)
M69	Sub fuel tank control unit (Terminal No. 11)
M126	Smart entrance control unit (With theft warning system)
M140	Door lock relay
M157	CD auto changer
M166	Combination switch (Spiral cable)
M167	NAVI control unit (Terminal No. 1)
M167	NAVI control unit (Terminal No. 4)
M169	NAVI switch (Illumination) (Terminal No. 3)
M169	NAVI switch (Terminal No. 7)
M170	Display (Terminal No. 22)
M170	Display (Terminal No. 24)
M173	Transfer unit (Terminal No. 25)
M173	Transfer unit (Terminal No. 27)



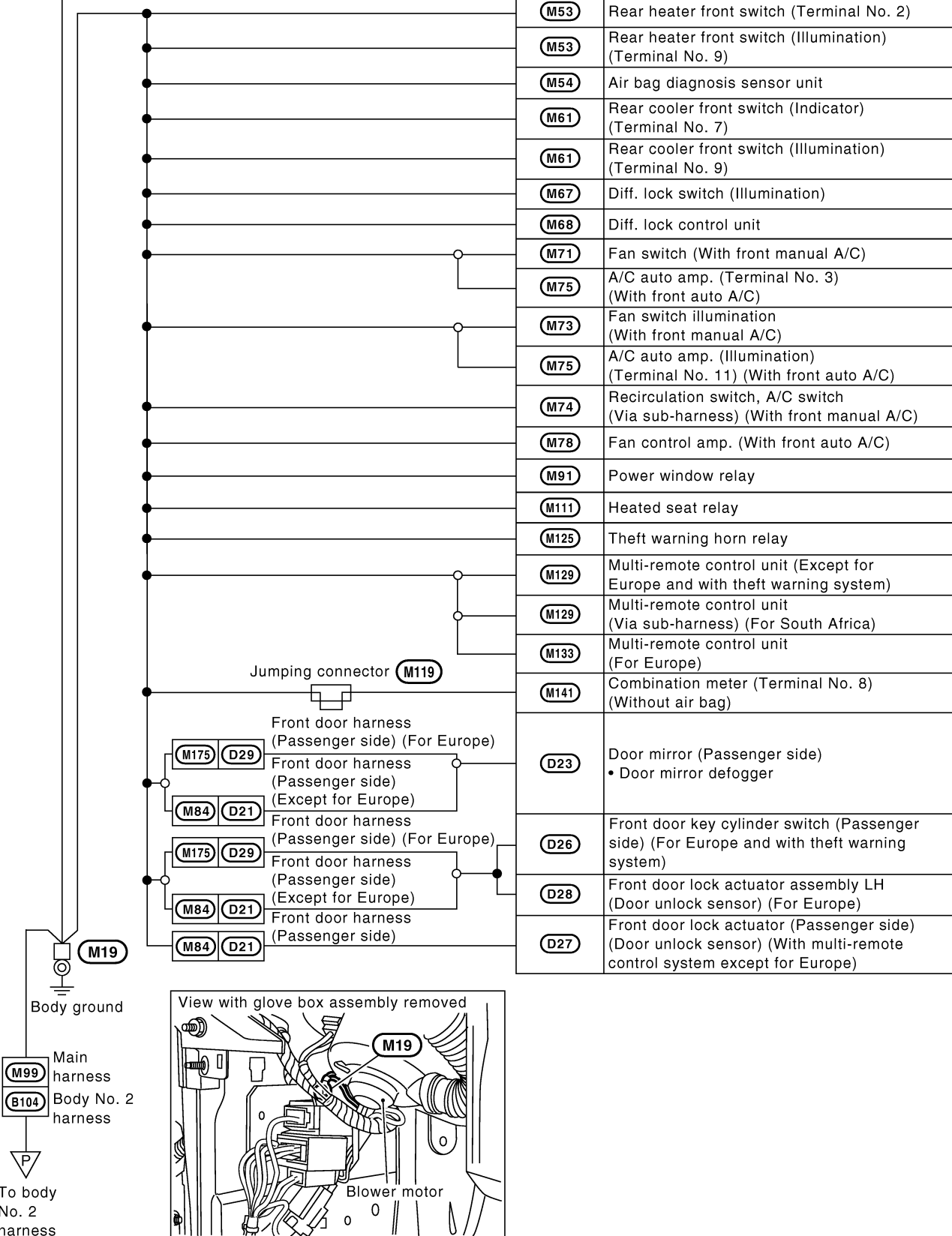
Next
page

CEL563M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Main Harness/RHD Models (Cont'd)

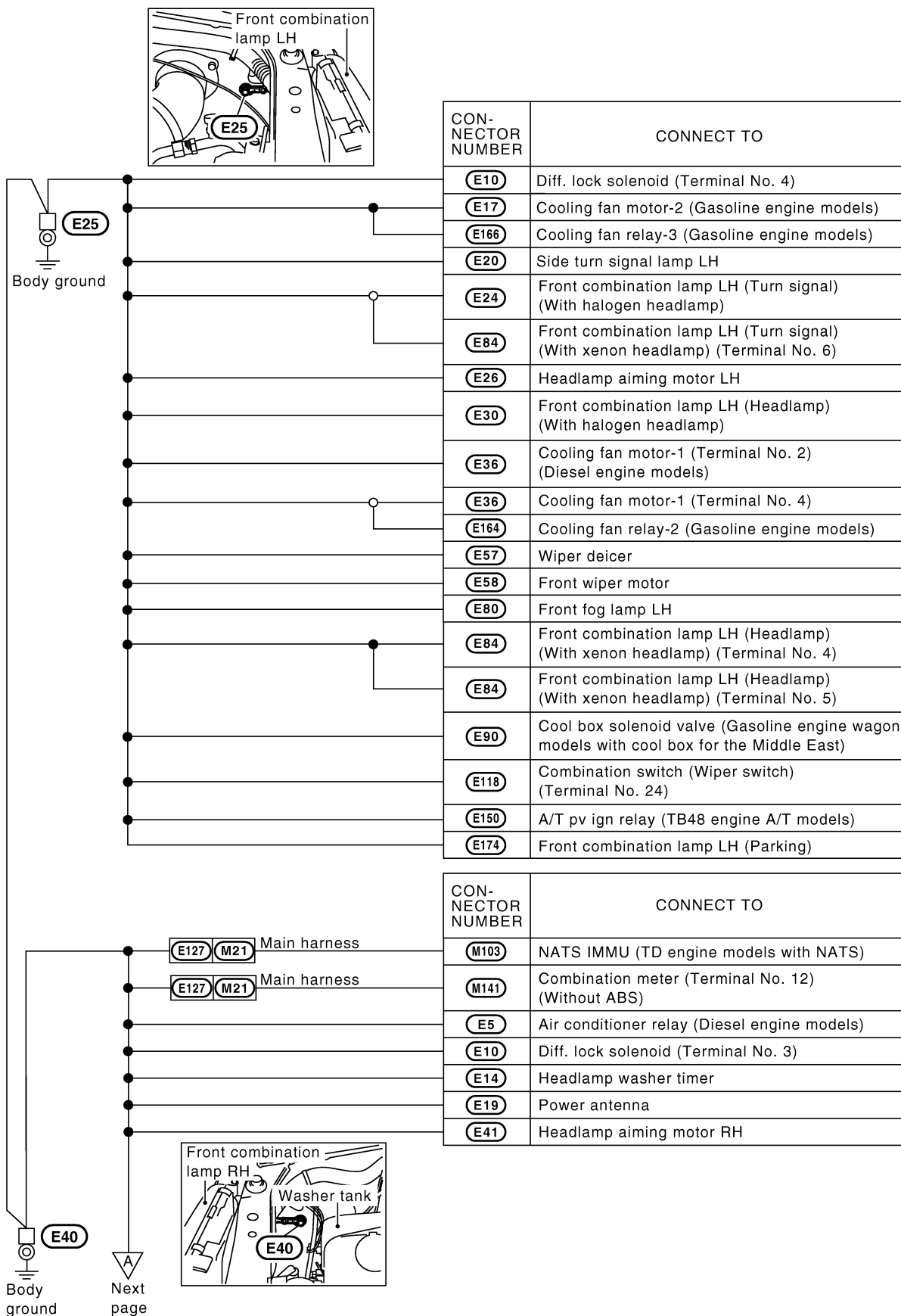
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CEL564M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models



CEL555M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

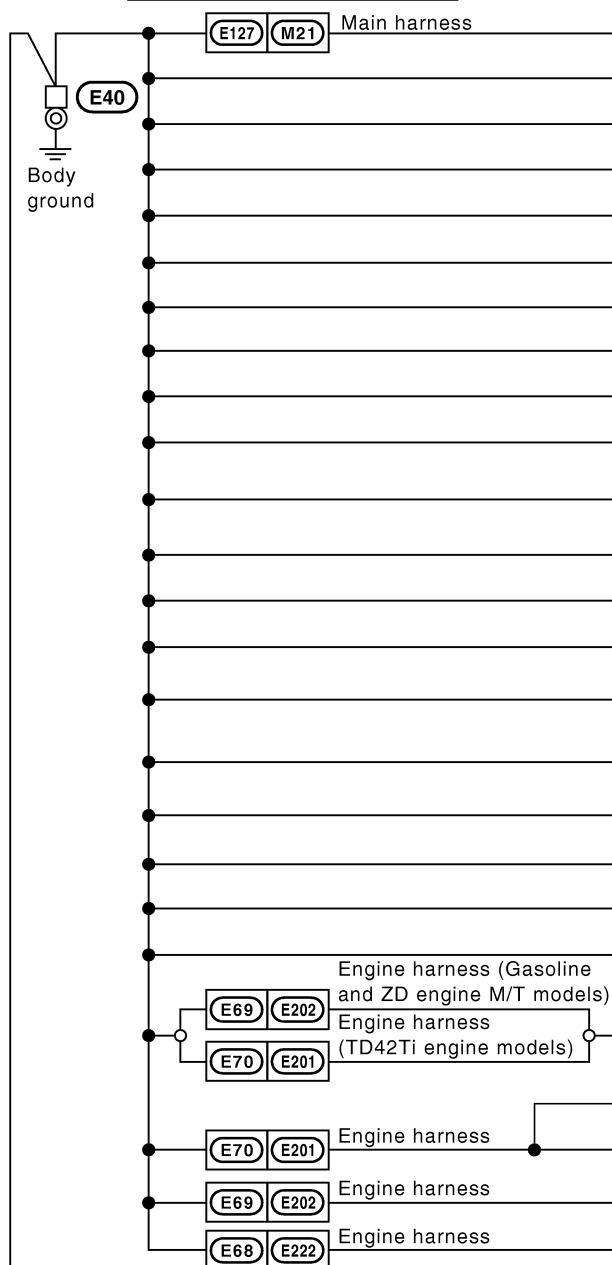
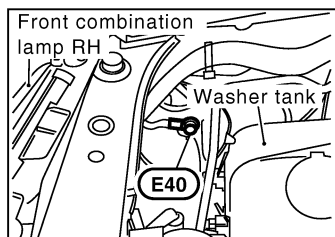
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	CON- NECTOR NUMBER	CONNECT TO
	(E45)	Front combination lamp RH (Headlamp) (With halogen headlamp)
	(E49)	Front combination lamp RH (Turn signal) (With halogen headlamp)
	(E81)	Front combination lamp RH (Turn signal) (With xenon headlamp) (Terminal No. 6)
	(E52)	Park/Neutral position relay-1 (A/T models)
	(E55)	Side turn signal lamp RH
	(E59)	Glow relay-1 (TD engine models)
	(E75)	Fuel filter switch (Diesel engine models except for Europe)
	(E76)	Brake fluid level switch
	(E79)	Front fog lamp RH
	(E81)	Front combination lamp RH (Headlamp) (With xenon headlamp) (Terminal No. 4)
	(E81)	Front combination lamp RH (Headlamp) (With xenon headlamp) (Terminal No. 5)
	(E82)	Daytime light control unit
	(E86)	HID relay LH (With xenon headlamp)
	(E85)	HID relay RH (With xenon headlamp)
	(E87)	Glow relay-2 (TD engine models for cold areas)
	(E92)	A/C cut relay (TD engine models with A/C)
	(E94)	Engine coolant temperature switch-1 (TD engine models with A/C)
	(E96)	IACV-FICD solenoid valve (TD engine models with A/C)
	(E118)	Combination switch (Wiper switch) (Terminal No. 17)
	(E147)	Park/Neutral position relay-3 (Terminal No. 1) (TB48 engine A/T models)
	(E147)	Park/Neutral position relay-3 (Terminal No. 6) (TB48 engine A/T models)
	(E151)	Ambient air temperature switch (TB48 engine models with front manual A/C and TB45E engine models with front manual A/C and rear cooler for the Middle East)
	(E152)	Front fog lamp relay
	(E153)	Rear fog lamp relay
	(E160)	Hood switch (OPT) (For Europe)
	(E160)	Hood switch (Except for Europe)
(E43) (E181) Engine room sub-harness	(E175)	Front combination lamp RH (Parking)
(E69) (E202) Engine harness	(E183)	Winch relay
	(E211)	Park/Neutral position switch (ECM control engine M/T models)
(E70) (E201) Engine harness	(E212)	4WD switch
	(E213)	Transfer neutral switch
(E69) (E202) Engine harness	(E219)	Engine coolant temperature sensor (TD engine models)
(E68) (E222) Engine harness	(E230)	Csolu (TD engine models with NATS)

CEL556M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS


Engine Room Harness/RHD Models

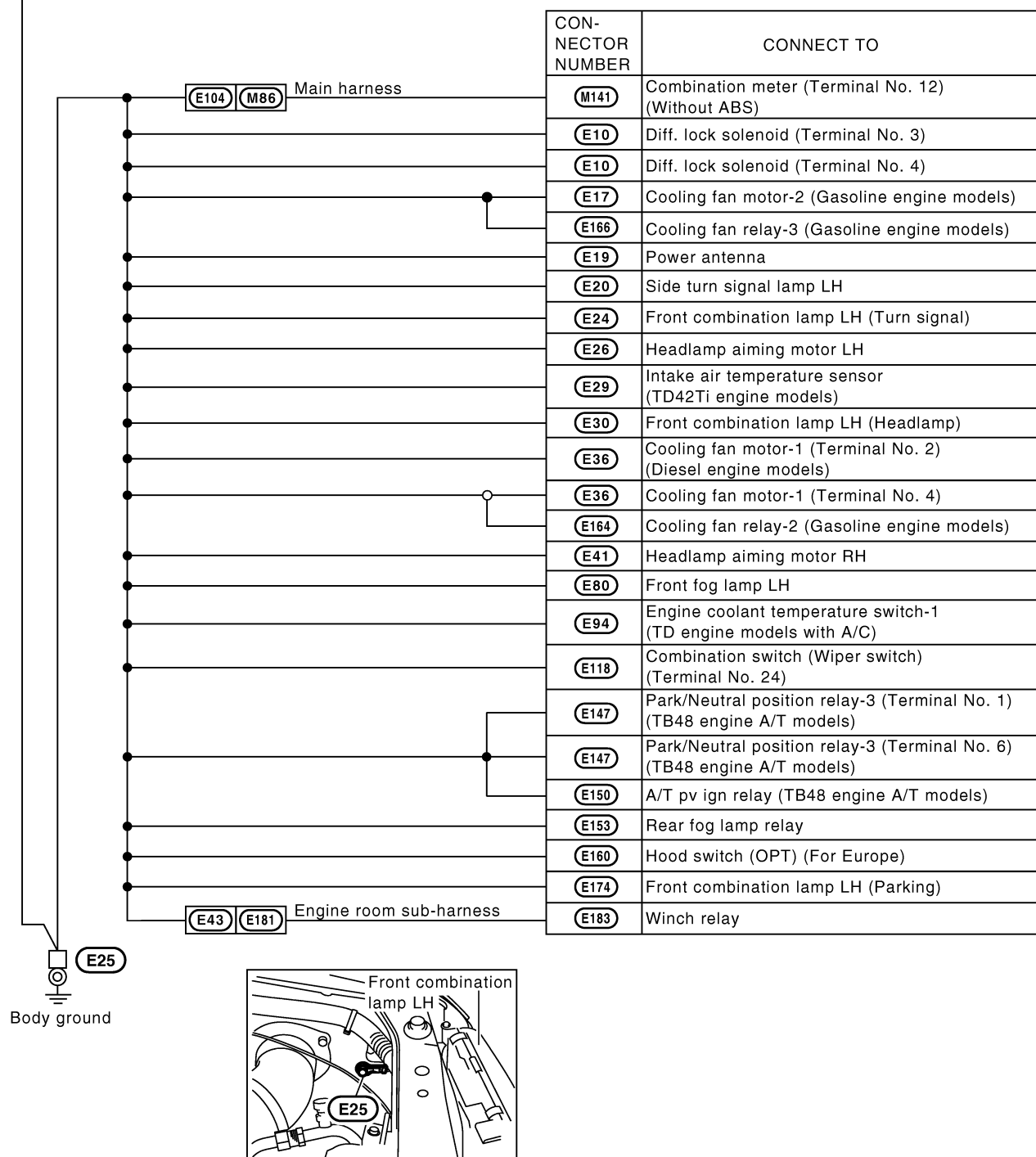


CON-NECTOR NUMBER	CONNECT TO
M103	NATS IMMU (TD engine models with NATS)
E5	Air conditioner relay (TD42 and ZD engine models)
E14	Headlamp washer timer
E45	Front combination lamp RH (Headlamp)
E49	Front combination lamp RH (Turn signal)
E52	Park/Neutral position relay-1 (A/T models)
E55	Side turn signal lamp RH
E57	Wiper deicer
E58	Front wiper motor
E59	Glow relay-1 (TD42 engine models)
E75	Fuel filter switch (Diesel engine models except for Europe)
E76	Brake fluid level switch
E79	Front fog lamp RH
E92	A/C cut relay (TD engine models with A/C)
E96	IACV-FICD solenoid valve (TD engine models with A/C)
E118	Combination switch (Wiper switch) (Terminal No. 17)
E151	Ambient air temperature switch (TB48 engine models with front manual A/C)
E152	Front fog lamp relay
E160	Hood switch (Except for Europe)
E175	Front combination lamp RH (Parking)
E211	Park/Neutral position switch
E212	4WD switch
E213	Transfer neutral switch
E219	Engine coolant temperature sensor (TD engine models)
E230	Csolu (TD engine models with NATS)

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models (Cont'd)

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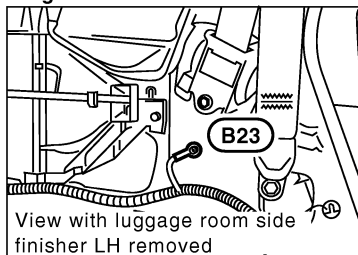


CEL558M

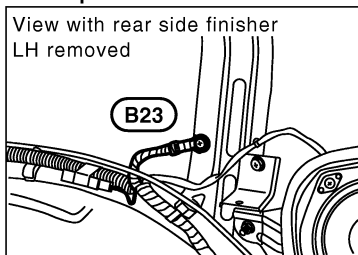
GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body Harness/LHD Models

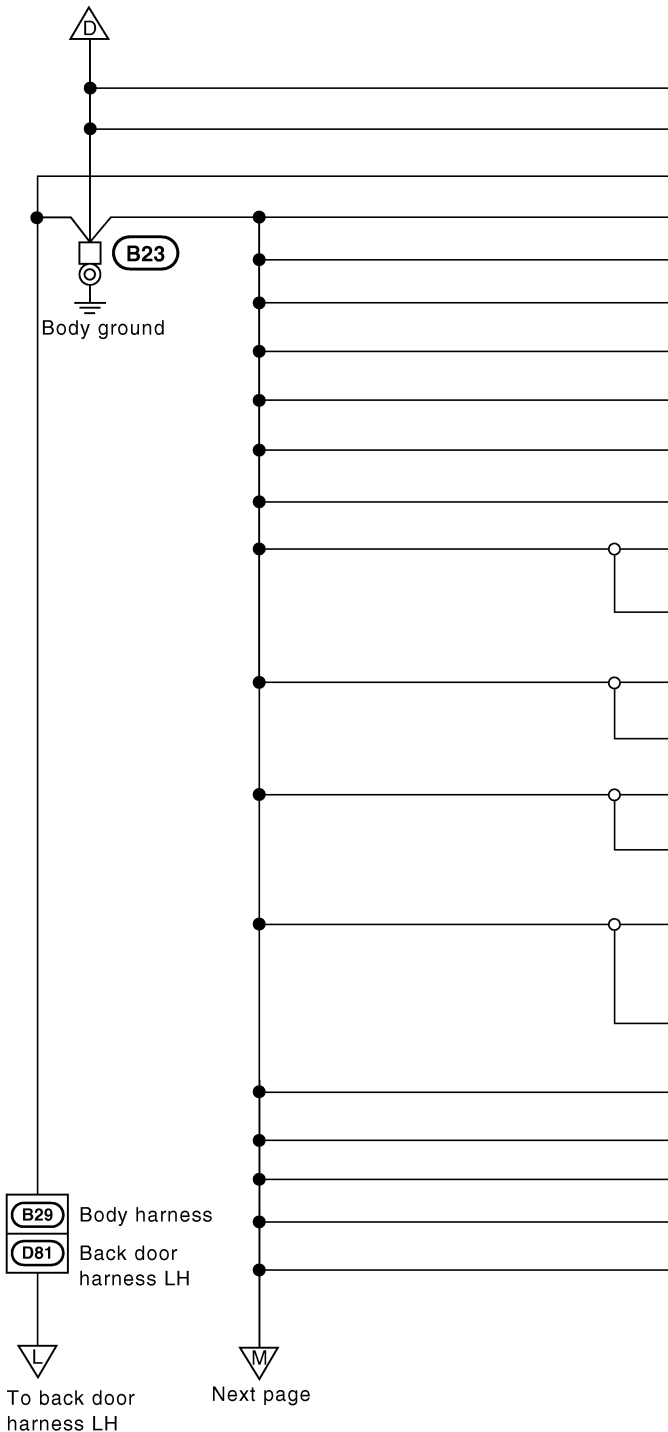
Wagon models



Hardtop models



To main harness



CON- NECTOR NUMBER	CONNECT TO
B13	Rear cooler switch (Terminal No. 3)
B14	Rear fan switch
B41	Rear power socket
B4	Power seat (Passenger side)
B5	Heated seat LH
B7	Heated seat switch LH (Terminal No. 4)
B7	Heated seat switch LH (Terminal No. 6) • Illumination
B8	Heated seat switch RH (Terminal No. 4)
B8	Heated seat switch RH (Terminal No. 6) • Illumination
B9	Ashtray illumination
B11	A/T device (Overdrive control switch) (Terminal No. 2) (ZD engine A/T models)
B26	Snow mode switch (Illumination) (Terminal No. 2) (TB48 engine A/T models with snow mode switch)
B11	A/T device (Illumination) (Terminal No. 4) (ZD engine A/T models)
B25	A/T device (Illumination) (Terminal No. 1) (TB48 engine A/T models)
B11	A/T device (Park position switch) (Terminal No. 8) (ZD engine A/T models)
B25	A/T device (Park position switch) (Terminal No. 6) (TB48 engine A/T models)
B12	A/T mode switch (ZD engine A/T models with A/T mode switch) • Hold (★) indicator lamp • Illumination
B26	Snow mode switch (Snow indicator lamp) (Terminal No. 6) (TB48 engine A/T models with snow mode switch)
B13	Rear cooler switch (Illumination) (Terminal No. 6)
B15	Heated seat RH
B16	Seat belt buckle switch (Driver side)
B17	Power seat (Driver side)
B20	Front door switch (Driver side)

CEL565M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body Harness/LHD Models (Cont'd)

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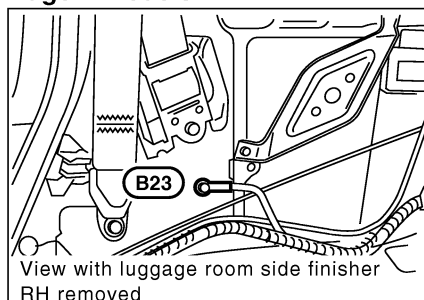
CON- NECTOR NUMBER	CONNECT TO
(B25)	A/T device (Mode select switch) (Terminal No. 11) (TB48 engine A/T models)
(B30)	Rear combination lamp LH • Stop/Tail • Back-up • Rear fog • Turn signal
(B32)	Rear cooler solenoid valve
(B38)	Rear cooler unit (With rear cooler except TB45E engine models for the Middle East and TB48 engine models)
(B56)	Rear cooler cut relay (TB48 engine models with rear cooler)
(B40)	Cool box
(B42)	Power socket relay
(B43)	Rear cooler cut relay (Terminal No. 2) (TB45E engine models with rear cooler for the Middle East)
(B43)	Rear cooler cut relay (Terminal No. 4) (TB45E engine models with rear cooler for the Middle East)
(B61)	Headlamp aiming switch (Terminal No. 2) (Except for the Middle East)
(B61)	Headlamp aiming switch (Illumination) (Terminal No. 4) (Except for the Middle East)
(B62)	Headlamp washer switch (Terminal No. 1)
(B62)	Headlamp washer switch (Illumination) (Terminal No. 3)
(B64)	Stabilizer switch (Illumination)
(B65)	Door lock and unlock switch (Terminal No. 3) • Illumination
(B37) (C2)	Chassis harness
(C7)	Diff. lock indicator switch
(C9)	Sub fuel tank gauge unit (Terminal No. 5)
(C10)	Rear bumper combination lamp LH • Stop/Tail • Turn signal
(C11)	Fuel tank gauge unit (Fuel pump) (Terminal No. 6)
(C12)	Rear bumper combination lamp RH • Stop/Tail • Turn signal
(B37) (C2)	Chassis harness
(B35) (C1)	Chassis harness
(B21) (D41)	Rear door harness LH
(C8)	Sub fuel tank gauge unit (Terminal No. 3)
(C11)	Fuel tank gauge unit (Terminal No. 2)
(D46)	Rear door lock actuator LH (Door unlock sensor)

CEL566M

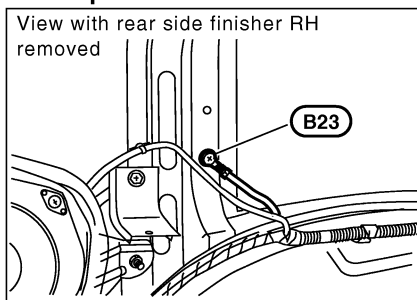
GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body Harness/RHD Models

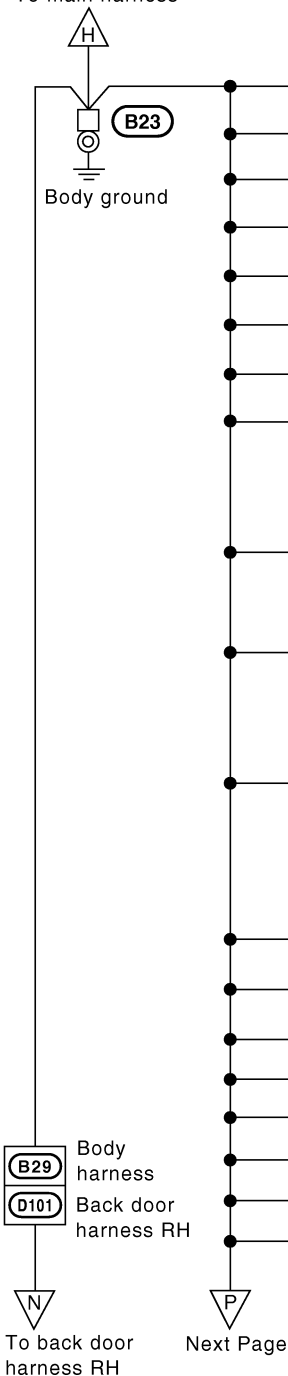
Wagon models



Hardtop models



To main harness



CON-NECTOR NUMBER	CONNECT TO
B4	Power seat (Passenger side)
B5	Heated seat LH
B7	Heated seat switch LH (Terminal No. 4)
B7	Heated seat switch LH (Terminal No. 6) • Illumination
B8	Heated seat switch RH (Terminal No. 4)
B8	Heated seat switch RH (Terminal No. 6) • Illumination
B9	Ashtray illumination
B11	A/T device (Overdrive control switch) (Terminal No. 2) (ZD engine A/T models)
B26	Snow mode switch (Illumination) (Terminal No. 2) (TB48 engine A/T models with snow mode switch)
B11	A/T device (Illumination) (Terminal No. 4) (ZD engine A/T models)
B25	A/T device (Illumination) (Terminal No. 1) (TB48 engine A/T models)
B11	A/T device (Park position switch) (Terminal No. 8) (ZD engine A/T models)
B25	A/T device (Park position switch) (Terminal No. 6) (TB48 engine A/T models)
B12	A/T mode switch (ZD engine A/T models with A/T mode switch) • Hold (★) indicator lamp • Illumination
B26	Snow mode switch (Snow indicator lamp) (Terminal No. 6) (TB48 engine A/T models with snow mode switch)
B13	Rear cooler switch (Terminal No. 3)
B13	Rear cooler switch (Illumination) (Terminal No. 6)
B14	Rear fan switch
B15	Heated seat RH
B16	Seat belt buckle switch (Driver side)
B17	Power seat (Driver side)
B18	Rear heater unit
B20	Front door switch (Driver side)

CEL567M

GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body Harness/RHD Models (Cont'd)

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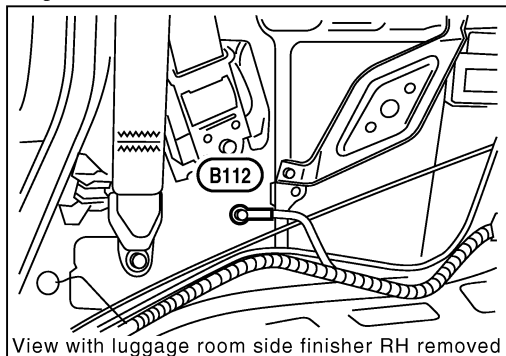
	CON- NECTOR NUMBER	CONNECT TO
•	(B25)	A/T device (Mode select switch) (Terminal No. 11) (TB48 engine A/T models)
•	(B30)	Rear combination lamp RH <ul style="list-style-type: none"> • Stop/Tail • Back-up • Rear fog • Turn signal
•	(B60)	Woofer (With 7-speakers)
•	(B61)	Headlamp aiming switch (Terminal No. 2)
•	(B61)	Headlamp aiming switch (Illumination) (Terminal No. 4)
•	(B62)	Headlamp washer switch (Terminal No. 1)
•	(B62)	Headlamp washer switch (Illumination) (Terminal No. 3)
•	(B64)	Stabilizer switch (Illumination)
•	(B65)	Door lock and unlock switch (Terminal No. 3) <ul style="list-style-type: none"> • Illumination
•	(B66)	Power antenna switch (Illumination)
•	(D66)	Rear door lock actuator RH (Door unlock sensor)
<div>(B21) (D61)</div> Rear door harness RH		

CEL568M

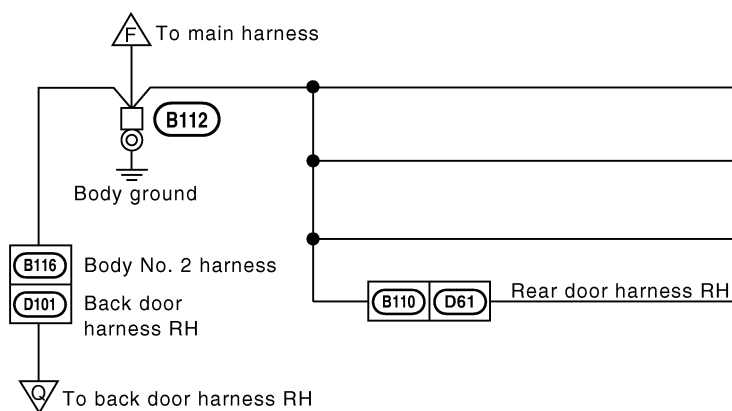
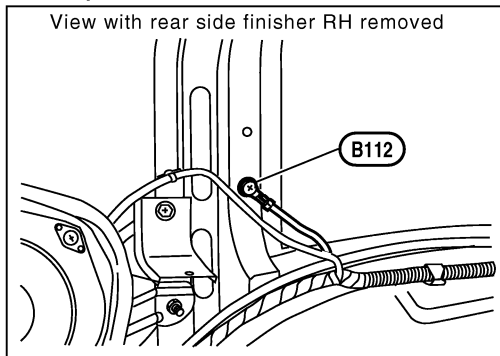
GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body No. 2 Harness/LHD Models

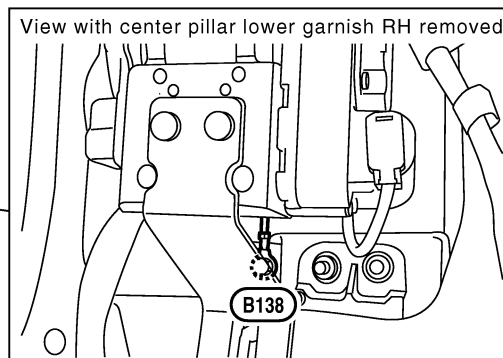
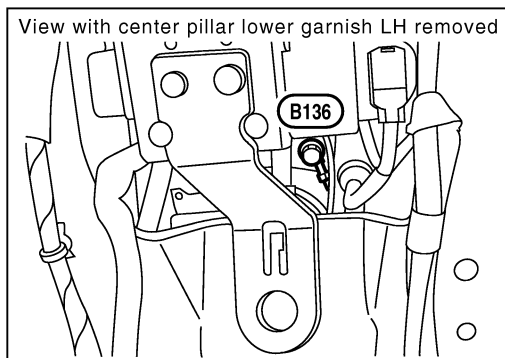
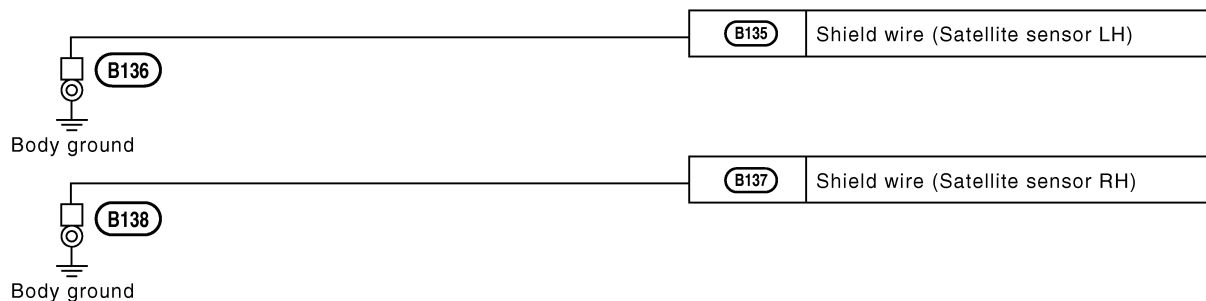
Wagon models



Hardtop models



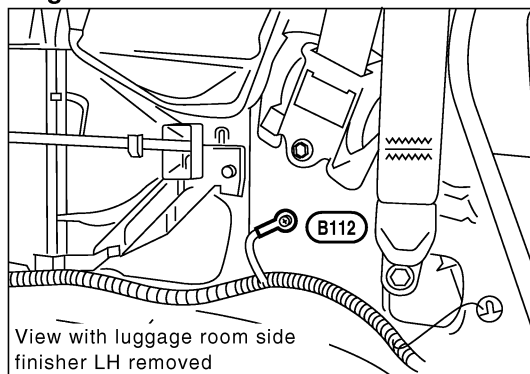
CON- NECTOR NUMBER	CONNECT TO
B107	Rear heater unit
B117	Rear combination lamp RH <ul style="list-style-type: none"> • Stop/Tail • Back-up • Turn signal
B140	Woofer (With 7-speakers)
D66	Rear door lock actuator RH (Door unlock sensor)



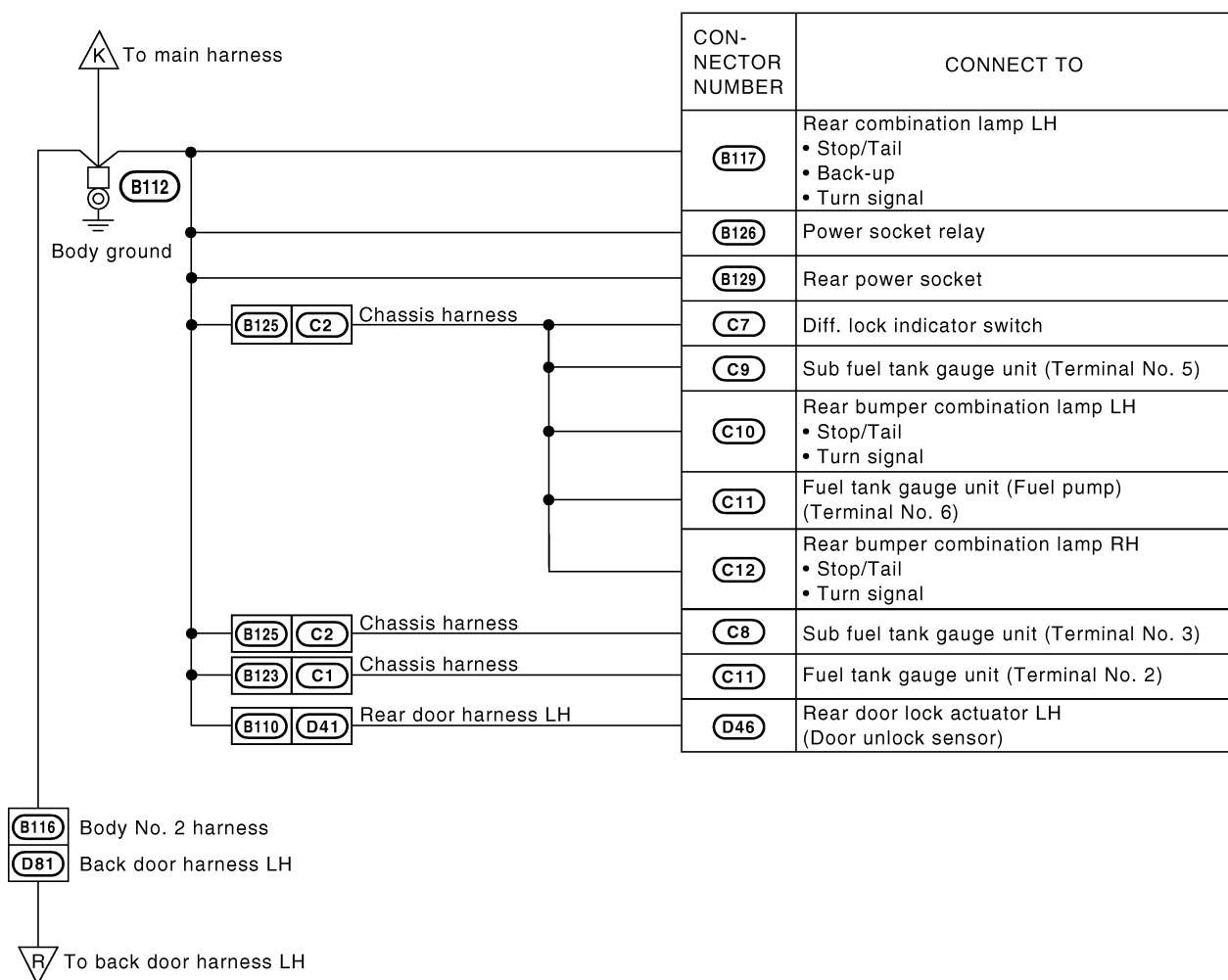
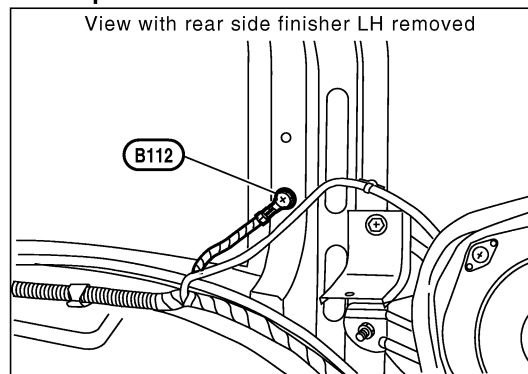
GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Body No. 2 Harness/RHD Models

Wagon models



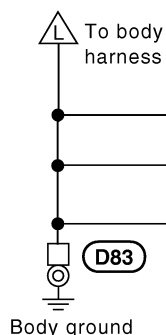
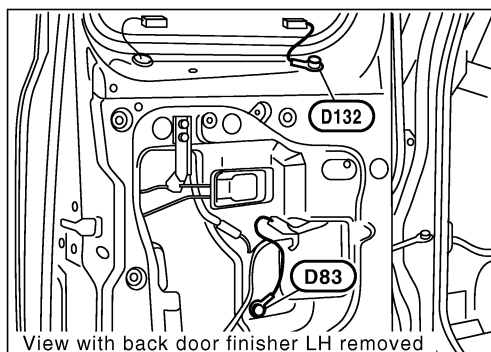
Hardtop models



GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

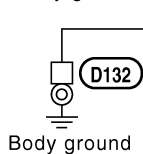
Back Door and Rear Window Defogger Harness/LHD Models

BACK DOOR HARNESS LH



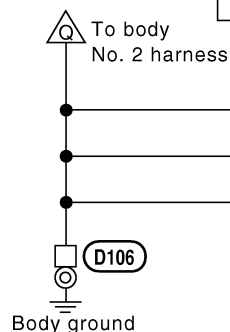
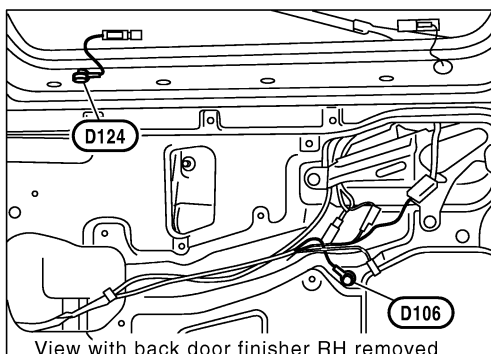
CON- NECTOR NUMBER	CONNECT TO
D82	License plate lamp
D86	Back door lock actuator (Door unlock sensor)
D88	Back door key cylinder switch (With theft warning system)

REAR WINDOW DEFOGGER HARNESS LH



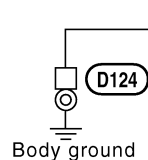
D131	Rear window defogger LH (-)
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BACK DOOR HARNESS RH



D104	High-mounted stop lamp
D105	Rear wiper motor
D107	Back door switch RH

REAR WINDOW DEFOGGER HARNESS RH

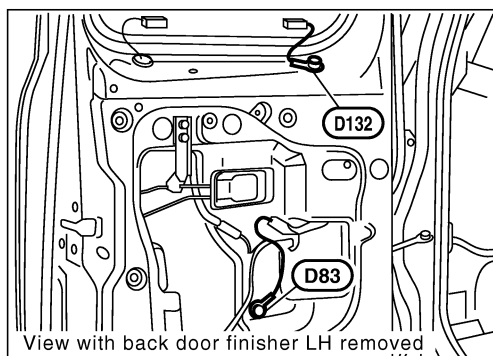


D123	Rear window defogger RH (-)
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GROUND DISTRIBUTION/WAGON AND HARDTOP MODELS

Back Door and Rear Window Defogger Harness/RHD Models

BACK DOOR HARNESS LH



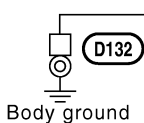
To body No. 2 harness



Body ground

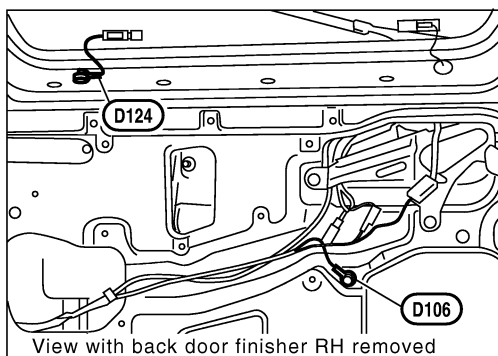
CON- NECTOR NUMBER	CONNECT TO
D82	License plate lamp
D86	Back door lock actuator (Door unlock sensor)
D88	Back door key cylinder switch (With theft warning system)

REAR WINDOW DEFOGGER HARNESS LH



D131	Rear window defogger LH (-)
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BACK DOOR HARNESS RH



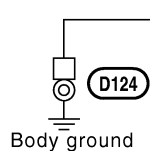
To body harness



Body ground

D104	High-mounted stop lamp
D105	Rear wiper motor
D107	Back door switch RH

REAR WINDOW DEFOGGER HARNESS RH

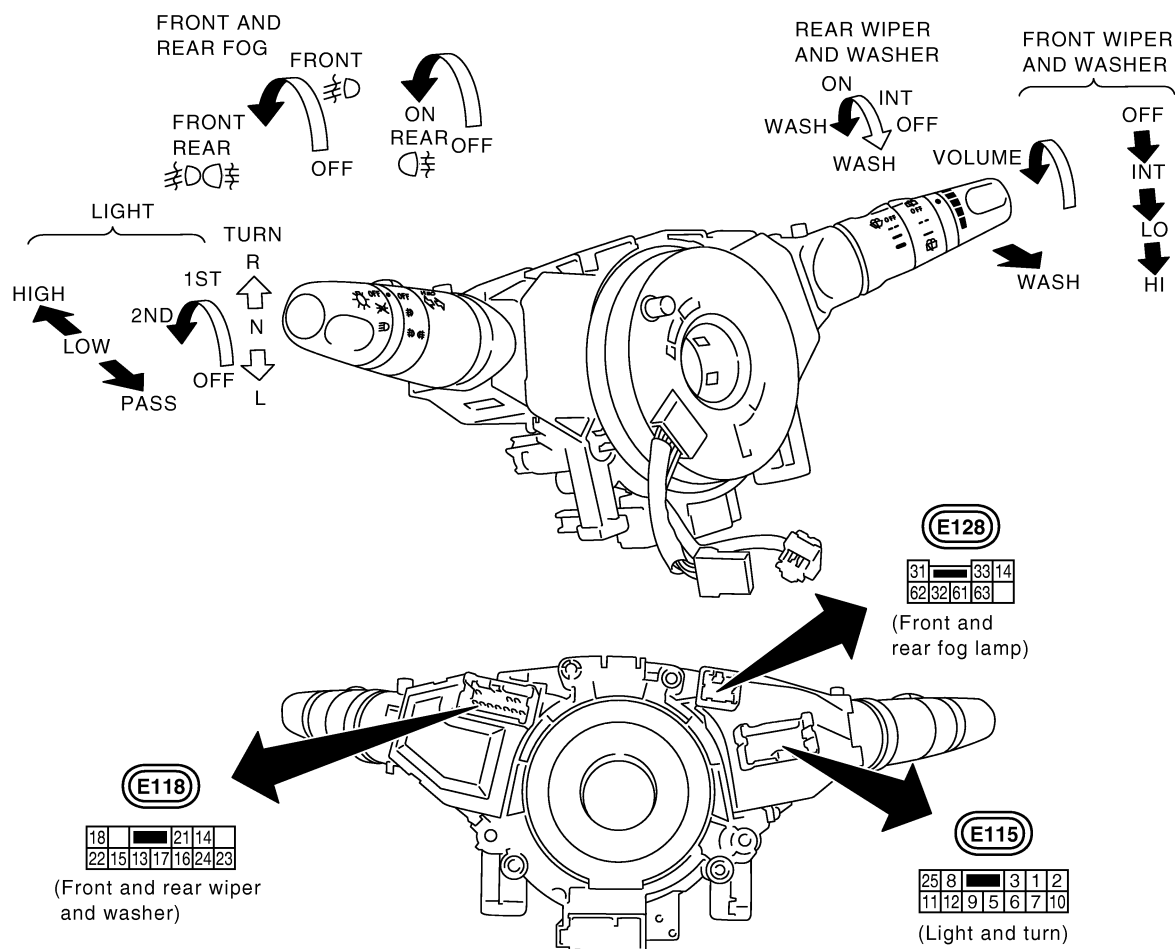


D123	Rear window defogger RH (-)
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COMBINATION SWITCH

Check

RHD MODELS FOR EUROPE AND LHD MODELS



FRONT WIPER AND WASHER SWITCH

	LO	AUTO STOP	AMP	WASH	HI	EARTH
OFF	○	○				○
INT	○	○	○			○
LO	○					○
HI					○	○
WASH				○		○

WIPER AMP. 14 15 13 16 17 18

VARIABLE INTERMITTENT WIPER VOLUME



FRONT AND REAR FOG LAMP SWITCH

	OFF	FRONT	FRONT REAR	REAR
31		○	○	
32		○	○	
33			○	○
34				○

REAR WIPER AND WASHER SWITCH

	INT	LO	WASH	EARTH
WASH			○	○
OFF				○
INT	○			○
ON		○		○
WASH		○	○	○

WIPER AMP. 21 23 24 22

TURN SIGNAL SWITCH

	L	N	R
1	○		○
2			○
3	○		

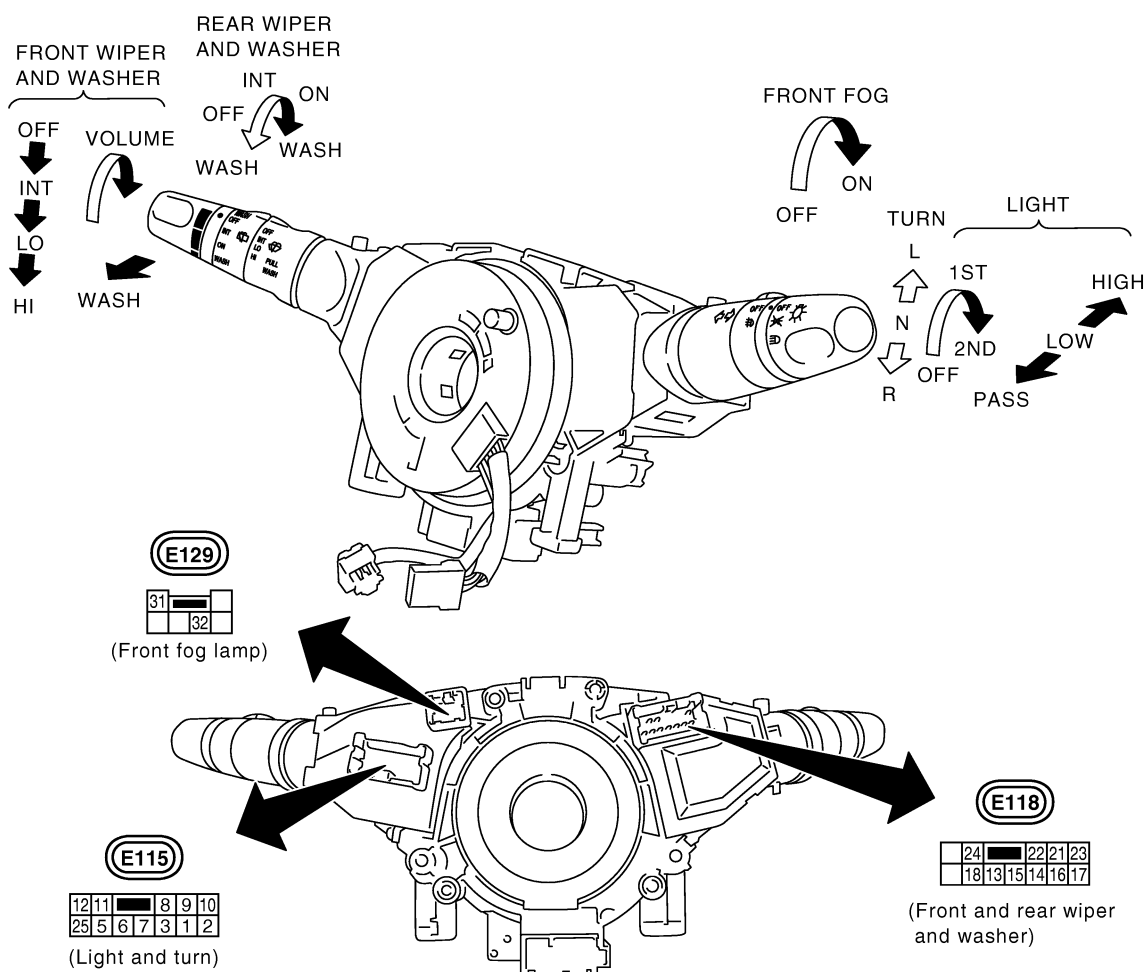
LIGHTING SWITCH

	OFF			1ST			2ND		
	HIGH	LOW	PASS	HIGH	LOW	PASS	HIGH	LOW	PASS
5			○			○	○	○	○
6			○			○	○	○	○
7							○	○	○
25							○	○	○
8			○			○	○	○	○
9			○			○	○	○	○
10							○	○	○
11				○	○	○	○	○	○
12				○	○	○	○	○	○

COMBINATION SWITCH

Check (Cont'd)

RHD MODELS EXCEPT FOR EUROPE

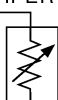


FRONT WIPER AND WASHER SWITCH

	LO	AUTO STOP	AMP	WASH	HI	EARTH
OFF	<input type="radio"/>	<input type="radio"/>				
INT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
LO	<input type="radio"/>					<input type="radio"/>
HI					<input type="radio"/>	<input type="radio"/>
WASH				<input type="radio"/>		<input type="radio"/>

WIPER AMP. (14, 15, 13, 16, 17, 18)

VARIABLE INTERMITTENT WIPER VOLUME



FRONT FOG LAMP SWITCH

	OFF	ON
31	<input type="radio"/>	<input type="radio"/>
32	<input type="radio"/>	<input type="radio"/>

REAR WIPER AND WASHER SWITCH

	INT	LO	WASH	EARTH
WASH OFF			<input type="radio"/>	<input type="radio"/>
INT	<input type="radio"/>			<input type="radio"/>
ON		<input type="radio"/>		<input type="radio"/>
WASH		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

WIPER AMP. (21, 23, 24, 22)

TURN SIGNAL SWITCH

	L	N	R
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

LIGHTING SWITCH

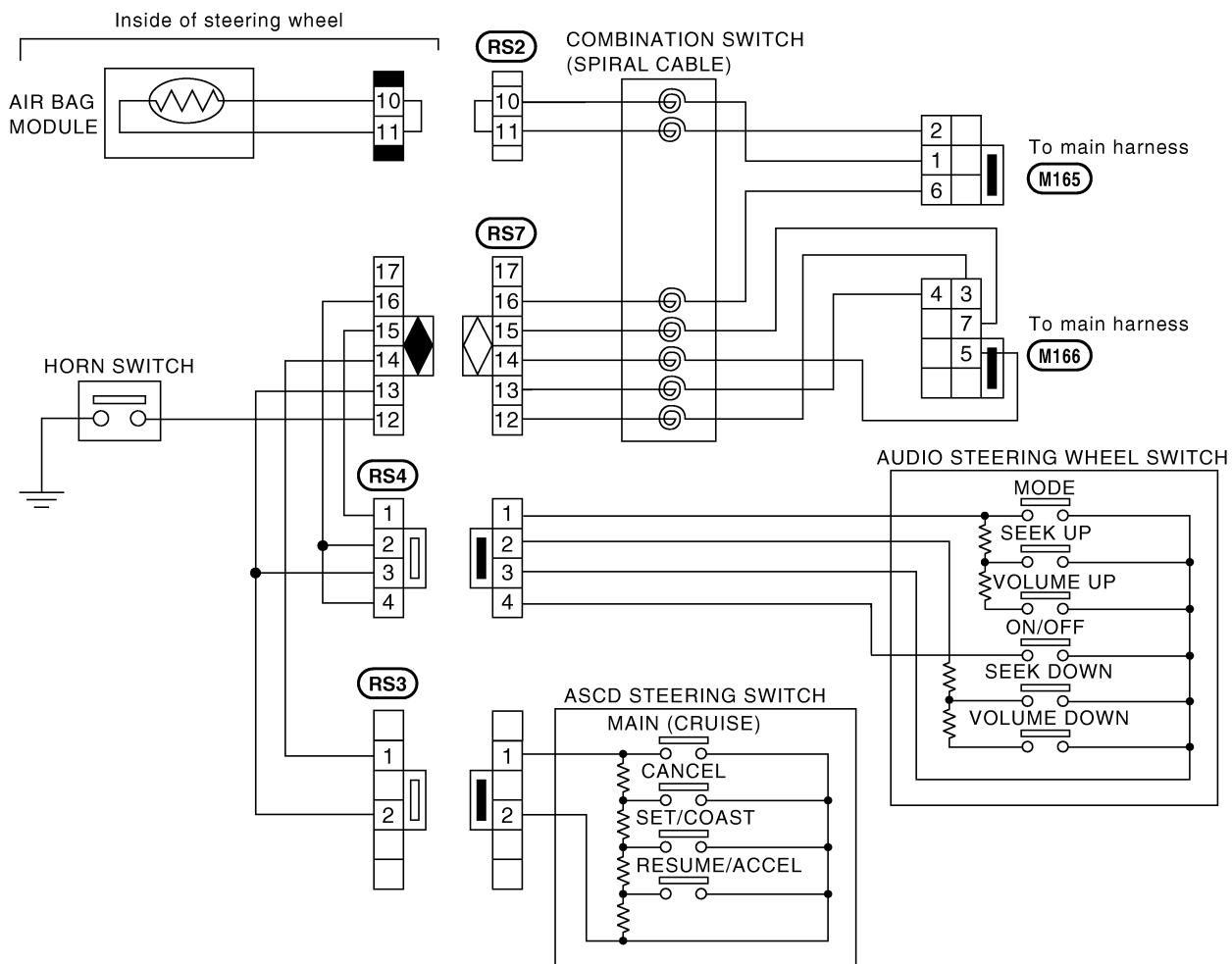
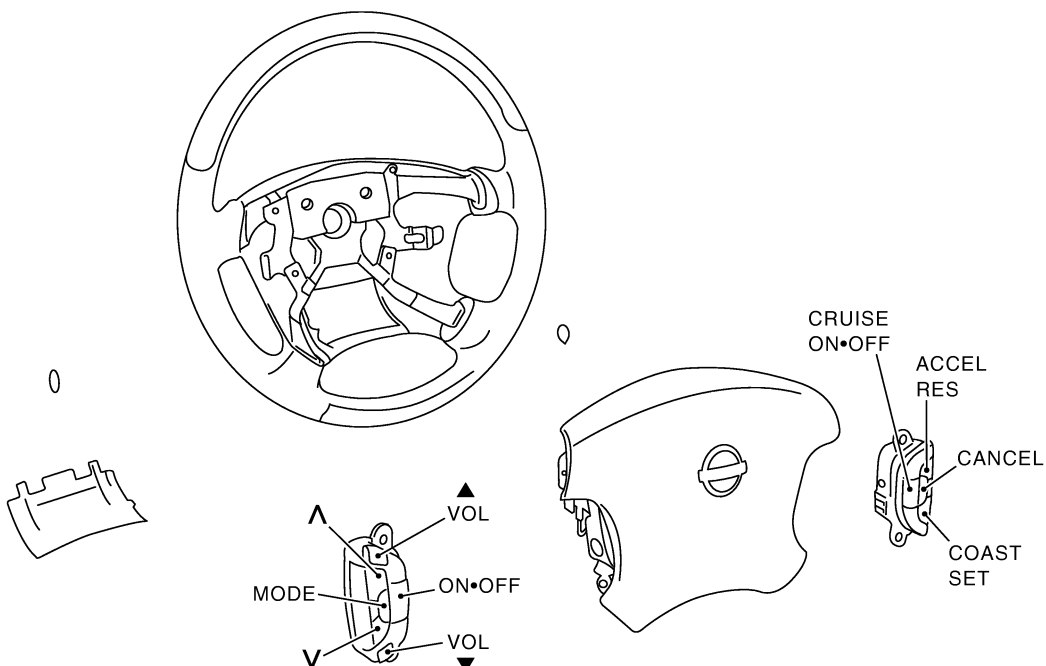
	OFF			1ST			2ND		
	HIGH	LOW	PASS	HIGH	LOW	PASS	HIGH	LOW	PASS
5			<input type="radio"/>			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6			<input type="radio"/>			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7							<input type="radio"/>		
25									
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9			<input type="radio"/>			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10							<input type="radio"/>		
11				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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CEL574M

STEERING SWITCH

Check/RHD Models for Europe and LHD Models

WITH ASCD AND AUDIO SWITCH

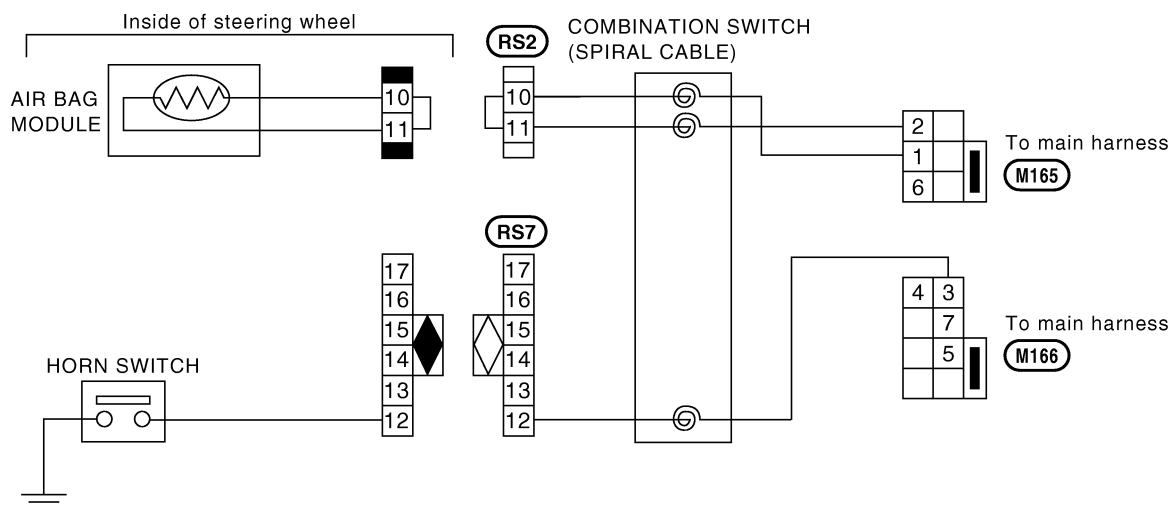
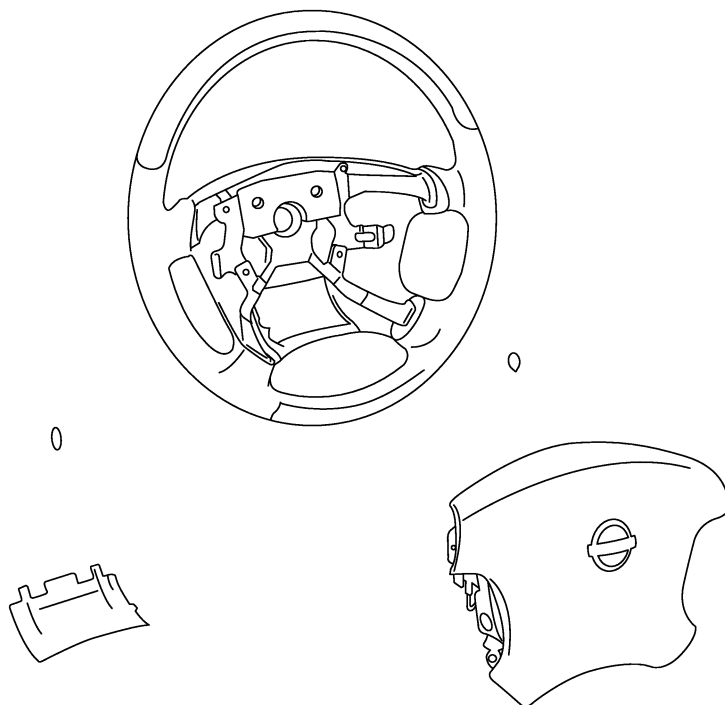


CEL575M

STEERING SWITCH

Check/RHD Models for Europe and LHD Models
(Cont'd)

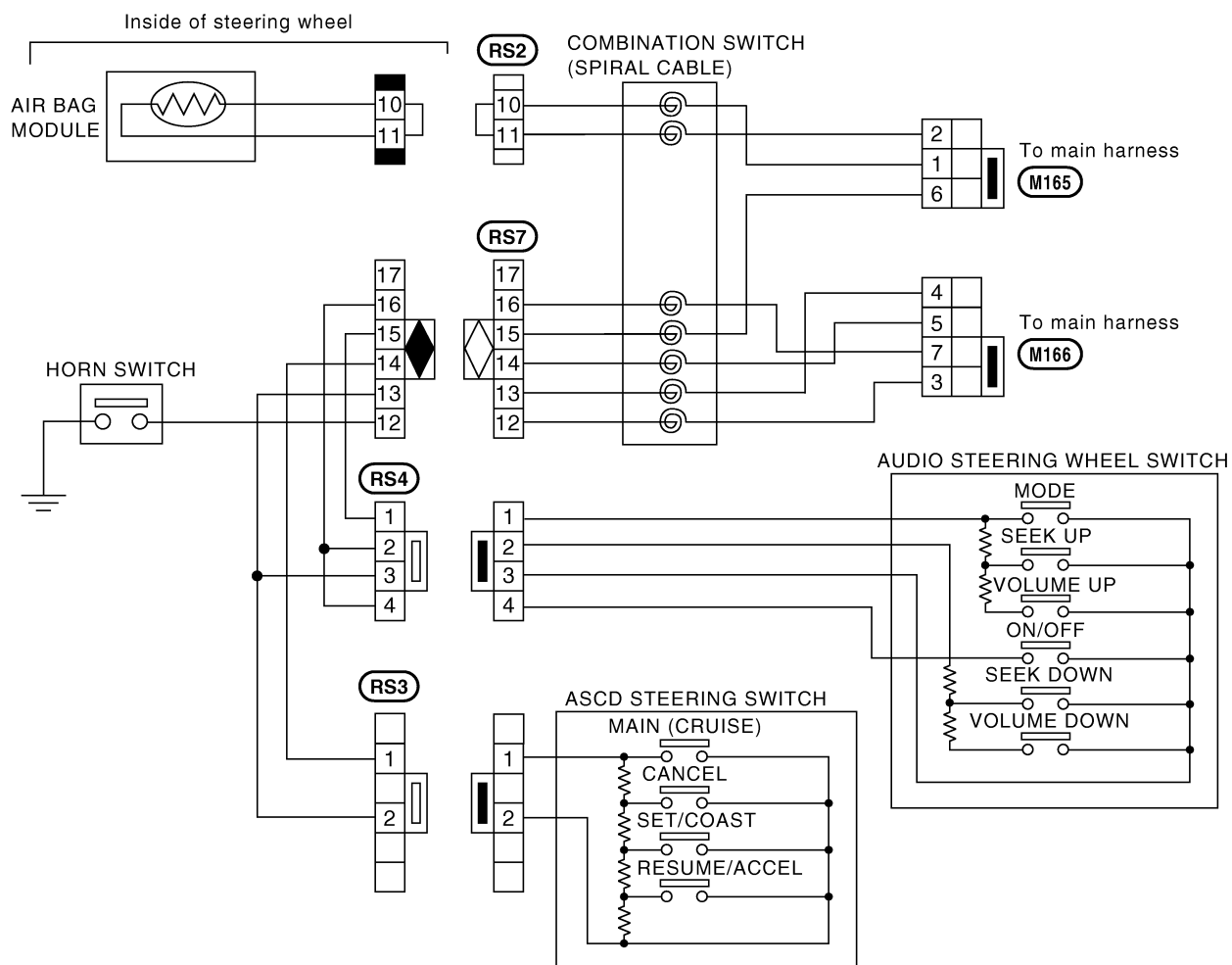
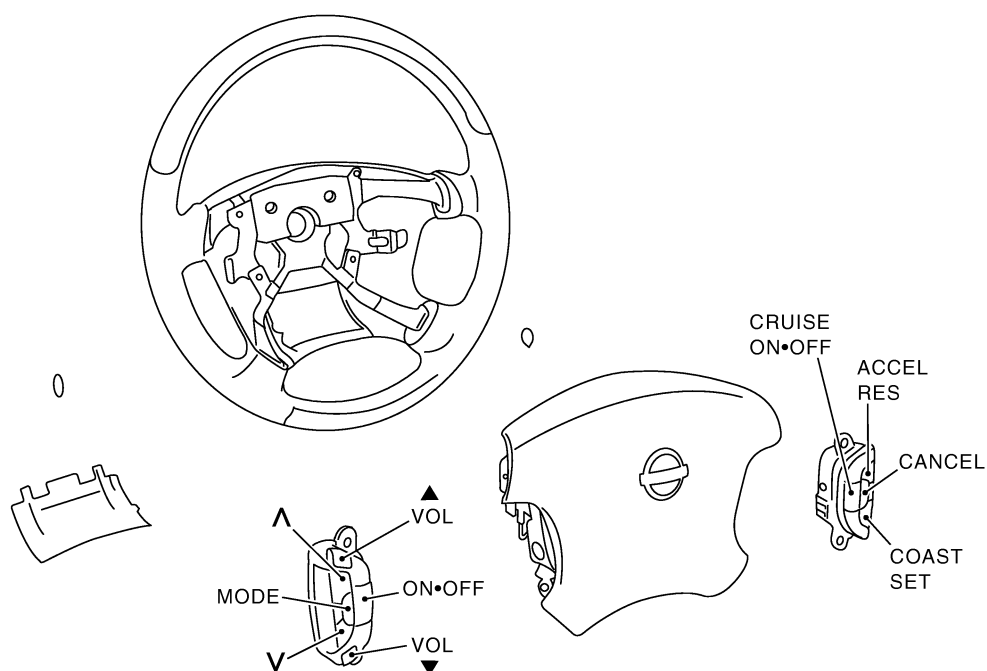
WITHOUT ASCD AND AUDIO SWITCH



STEERING SWITCH

Check/RHD Models Except for Europe

WITH ASCD AND AUDIO SWITCH

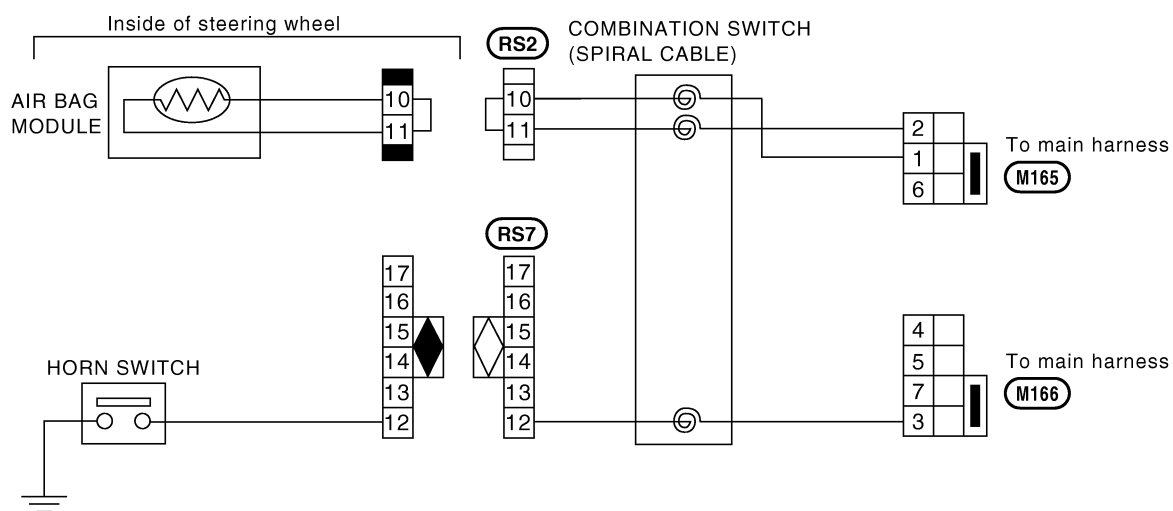
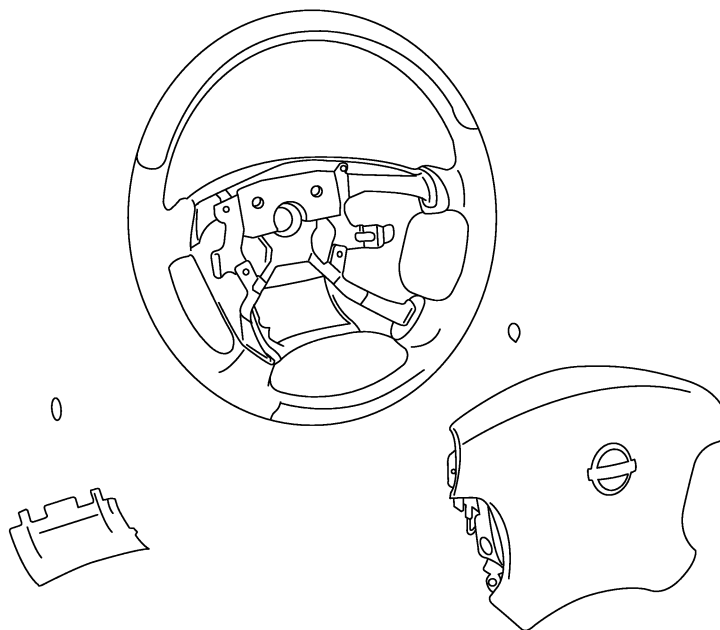


CEL576M

STEERING SWITCH

Check/RHD Models Except for Europe (Cont'd)

WITH ASCD AND AUDIO SWITCH

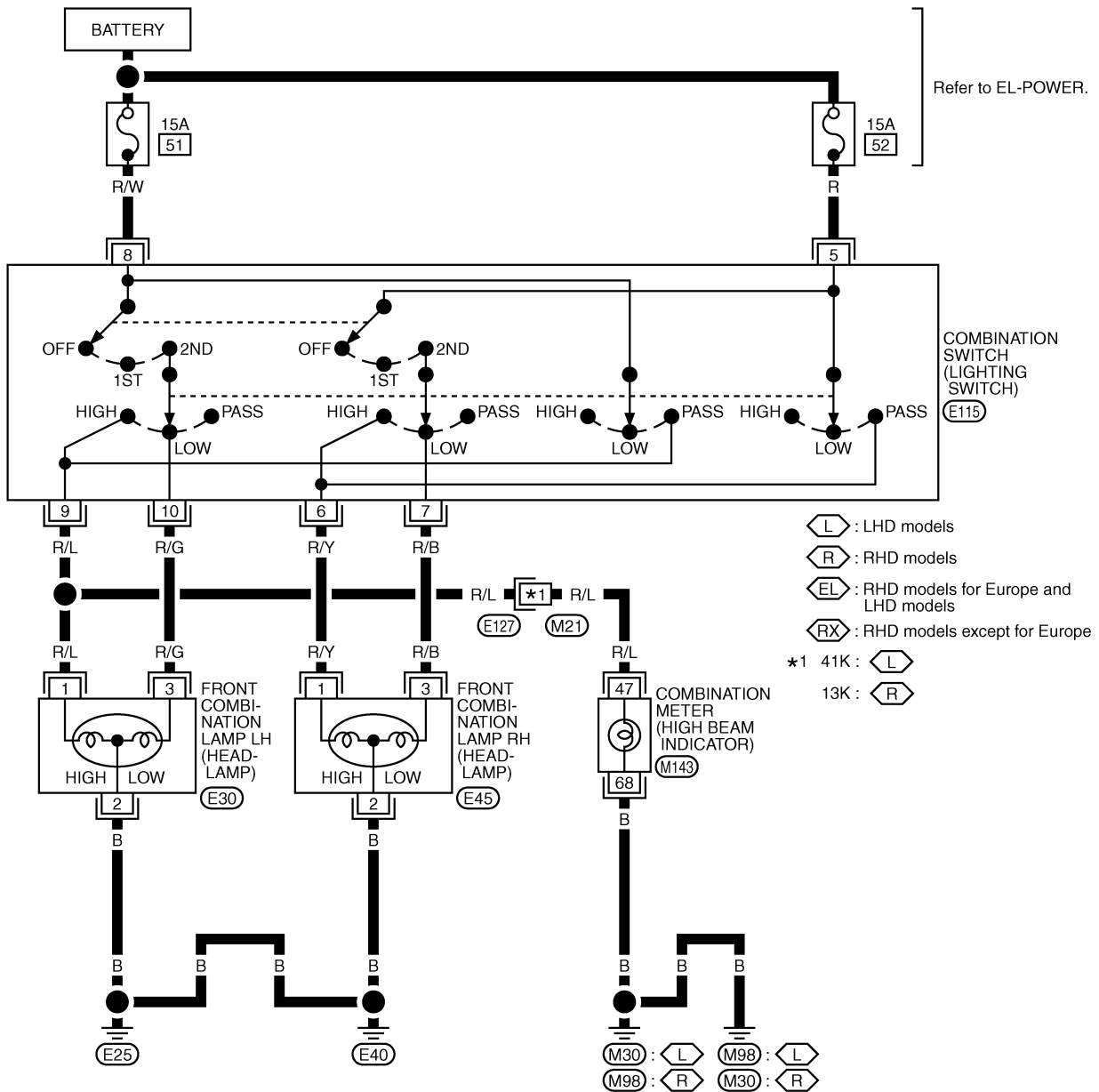







CEL578M

HEADLAMP/WAGON AND HARDTOP MODELS — Conventional Type —

Wiring Diagram — H/LAMP —

EL-H/LAMP-01



45	46	47	48	49	50			51	52	53	54	55	 BR		 B	 B
56	57	58	59	60	61	62	63	64	65	66	67	68				

2	1	3	<div></div>	8	25	(E115) : <div>EL</div> BR	10	9	8	<div></div>	11	12	(E115) : <div>RX</div> BR
10	7	6	5	9	12		11	2	1	3	7	6	

Refer to last page (Foldout page).

(M21), (E127)

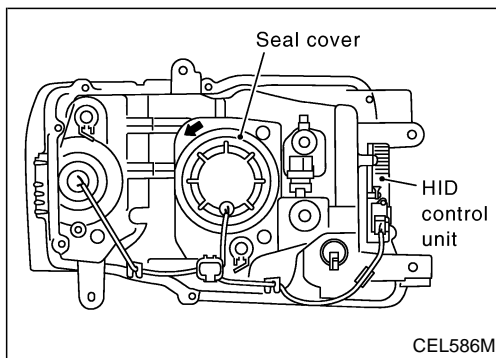
Bulb Replacement

CAUTION:

- After replacing a new xenon bulb, be sure to make aiming adjustments.
 - Hold only the plastic base when handling the bulb. Never touch the glass envelope.
 - 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.
1. Disconnect negative battery cable.
 2. Remove side combination lamp and radiator grille.
 3. Disconnect headlamp connector.
 4. Remove headlamp assembly.

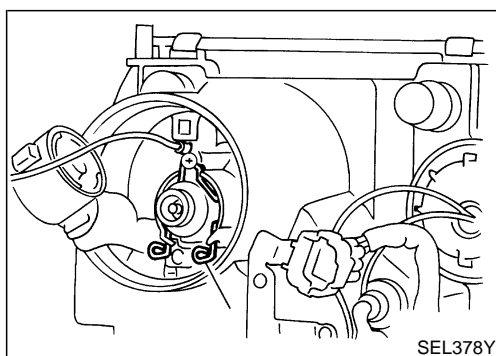
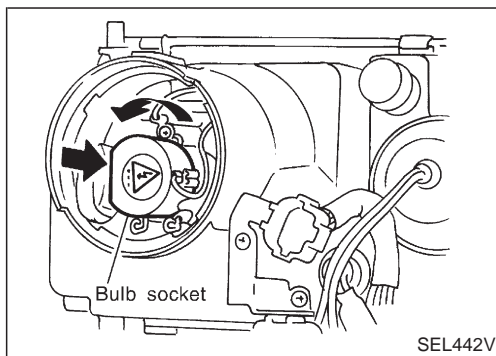
WARNING:

Never service a xenon headlamp with wet hands.



XENON BULB (HIGH AND LOW BEAM)

1. Remove headlamp seal cover by turning it counterclockwise.
2. Turn bulb socket counterclockwise with keep pushing, then remove it.



3. Release retaining pin.
4. Remove the xenon bulb.
5. Install in the reverse order of removal.

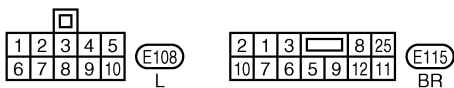
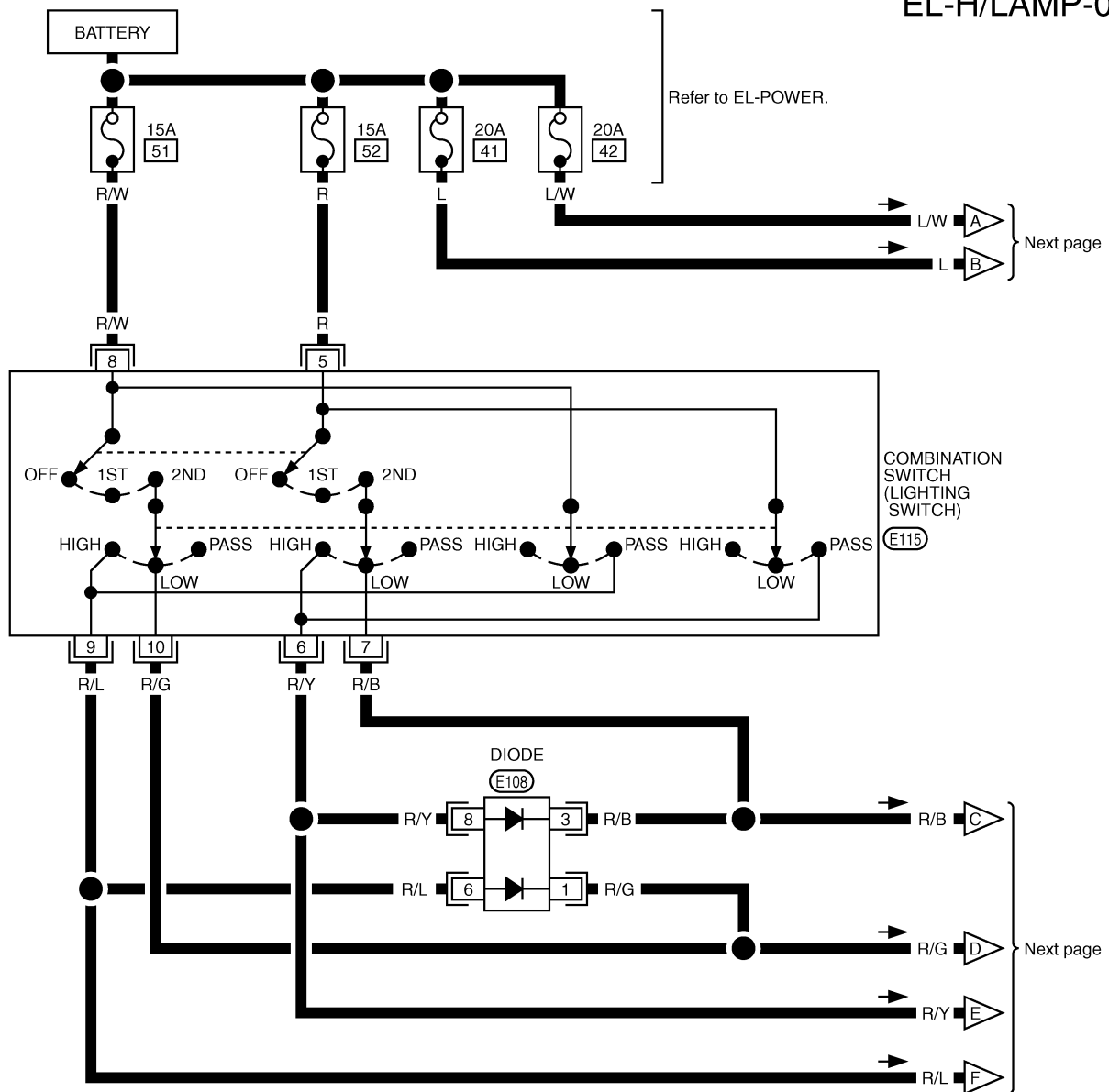
CAUTION:

- When disposing of the xenon bulb, do not break it; always dispose of it as is.
- Make sure to install the bulb securely; if the xenon bulb is improperly installed in its socket, high-tension current leaks occur. This may lead to a melted bulb and/or bulb socket.

HEADLAMP/WAGON AND HARDTOP MODELS — Xenon Type —

Wiring Diagram — H/LAMP —

EL-H/LAMP-02

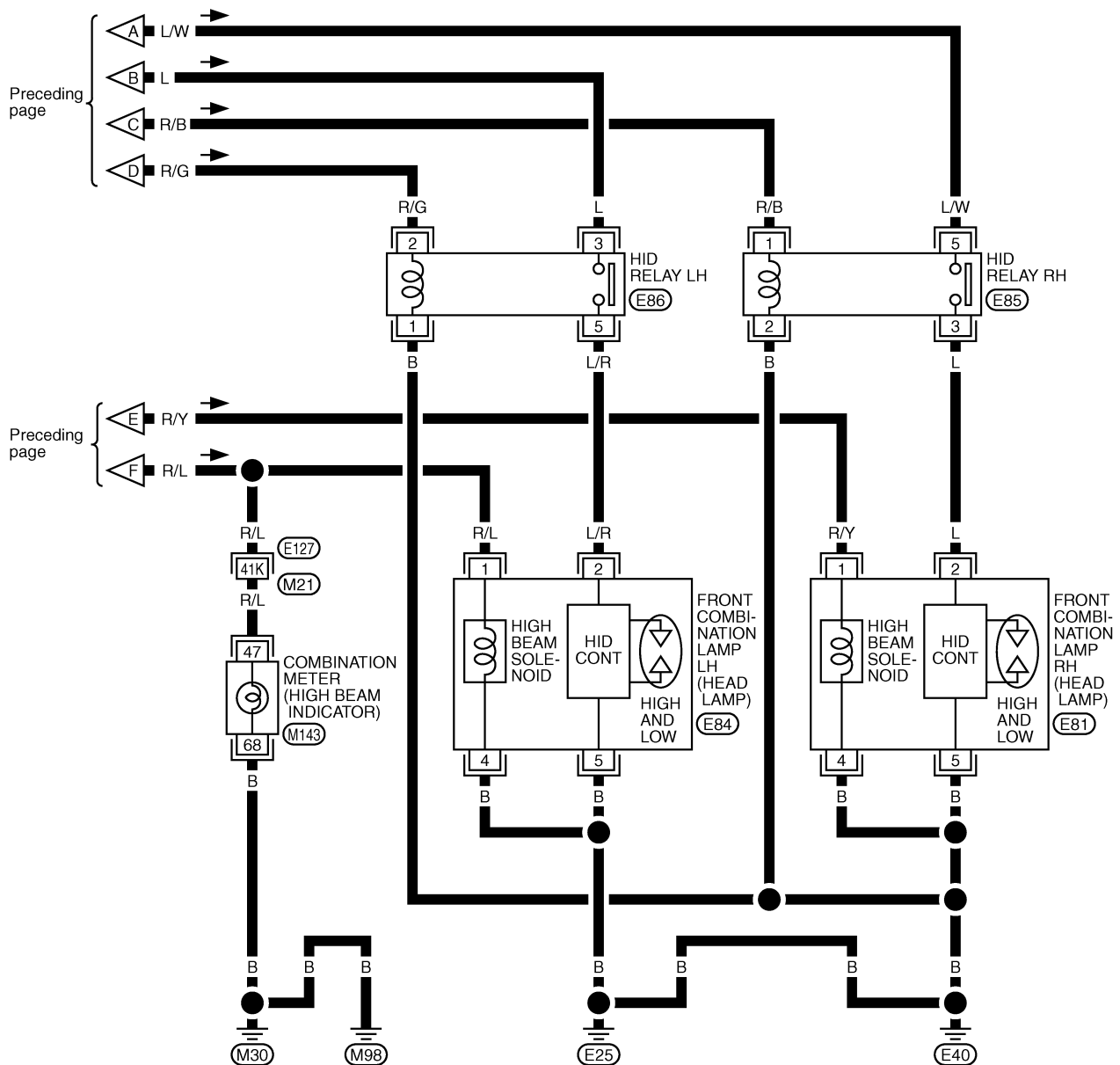


TEL973M

EL-4042

HEADLAMP/WAGON AND HARDTOP MODELS — Xenon Type — Wiring Diagram — H/LAMP — (Cont'd)

EL-H/LAMP-03



45	46	47	48	49	50	51	52	53	54	55	M143	BR
56	57	58	59	60	61	62	63	64	65	66	67	68

1	2	3	E81	E84
4	5	6	GY	GY

3	5	E85	E86
1	2	L	L

Refer to last page (Foldout page).

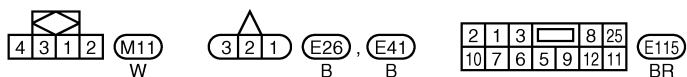
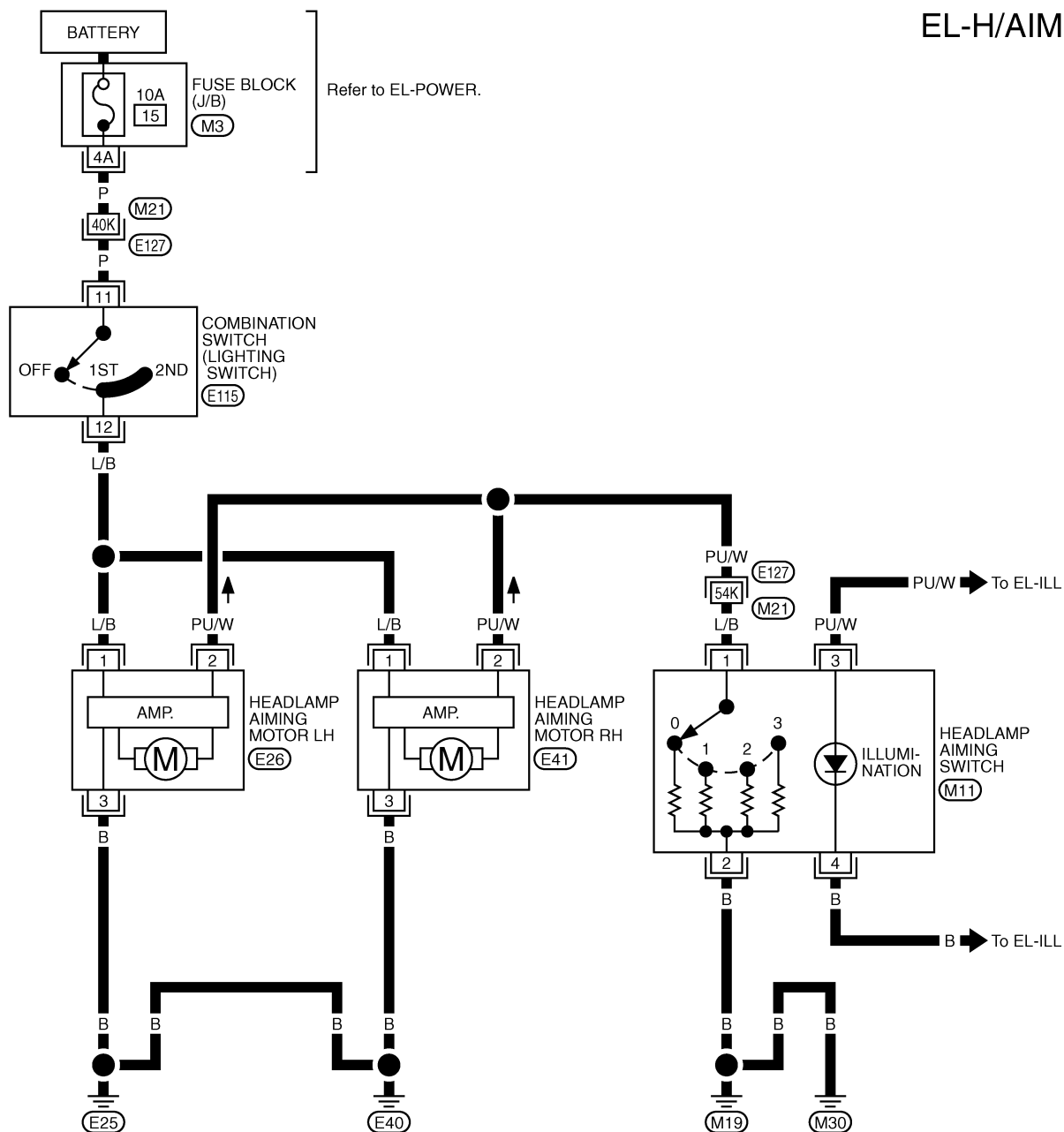
(M21), (E127)

TEL974M

HEADLAMP/WAGON AND HARDTOP MODELS — Headlamp Aiming Control —

Wiring Diagram — H/AIM —/Except for the Middle East

EL-H/AIM-01



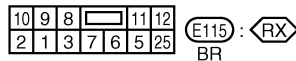
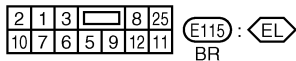
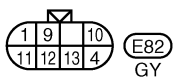
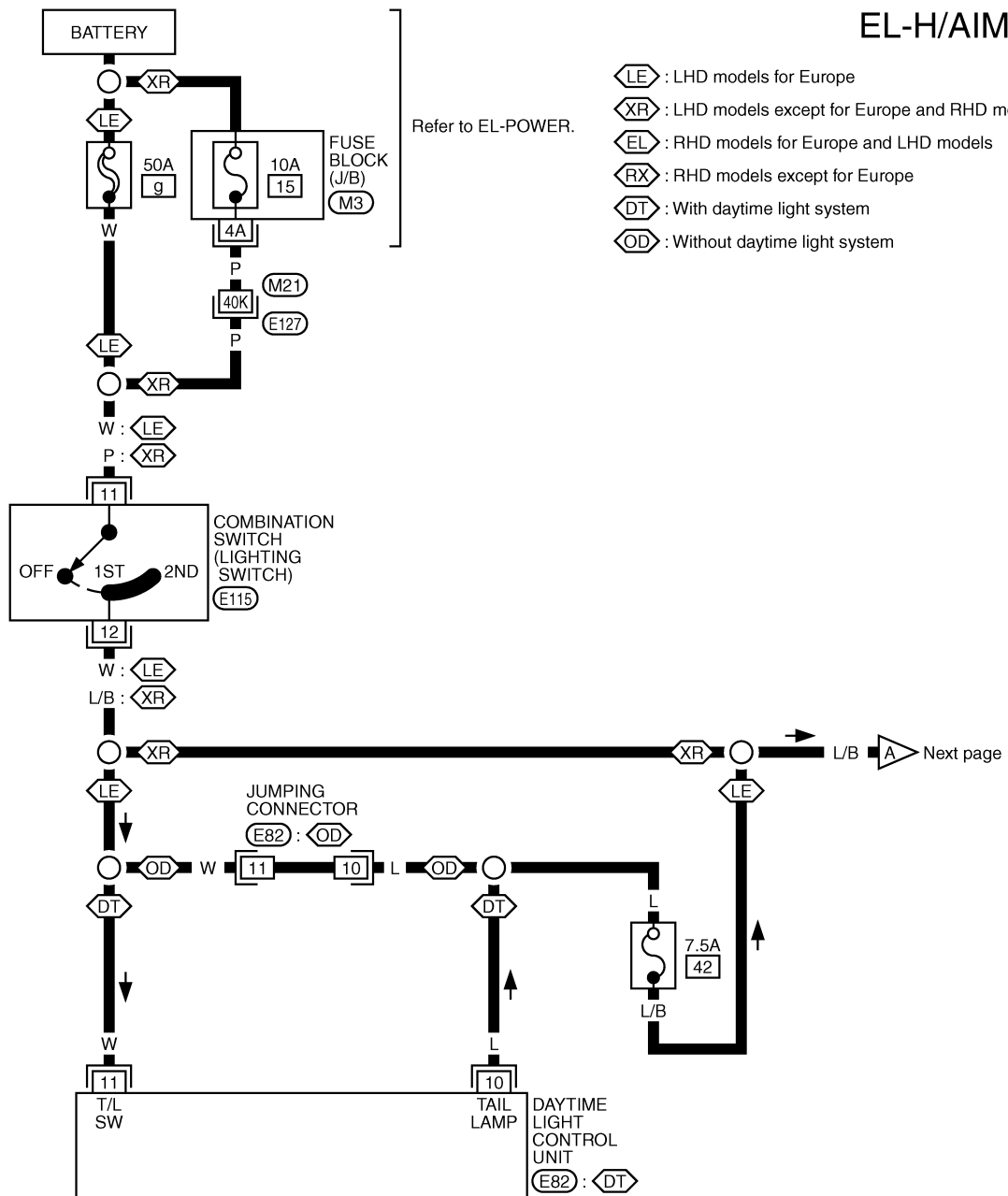
Refer to last page (Foldout page).

(M21), (E127)
(M3)

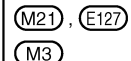
HEADLAMP/WAGON AND HARDTOP MODELS — Headlamp Aiming Control —

Wiring Diagram — H/AIM —/Except for the Middle East (Cont'd)

EL-H/AIM-02



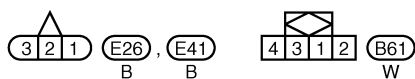
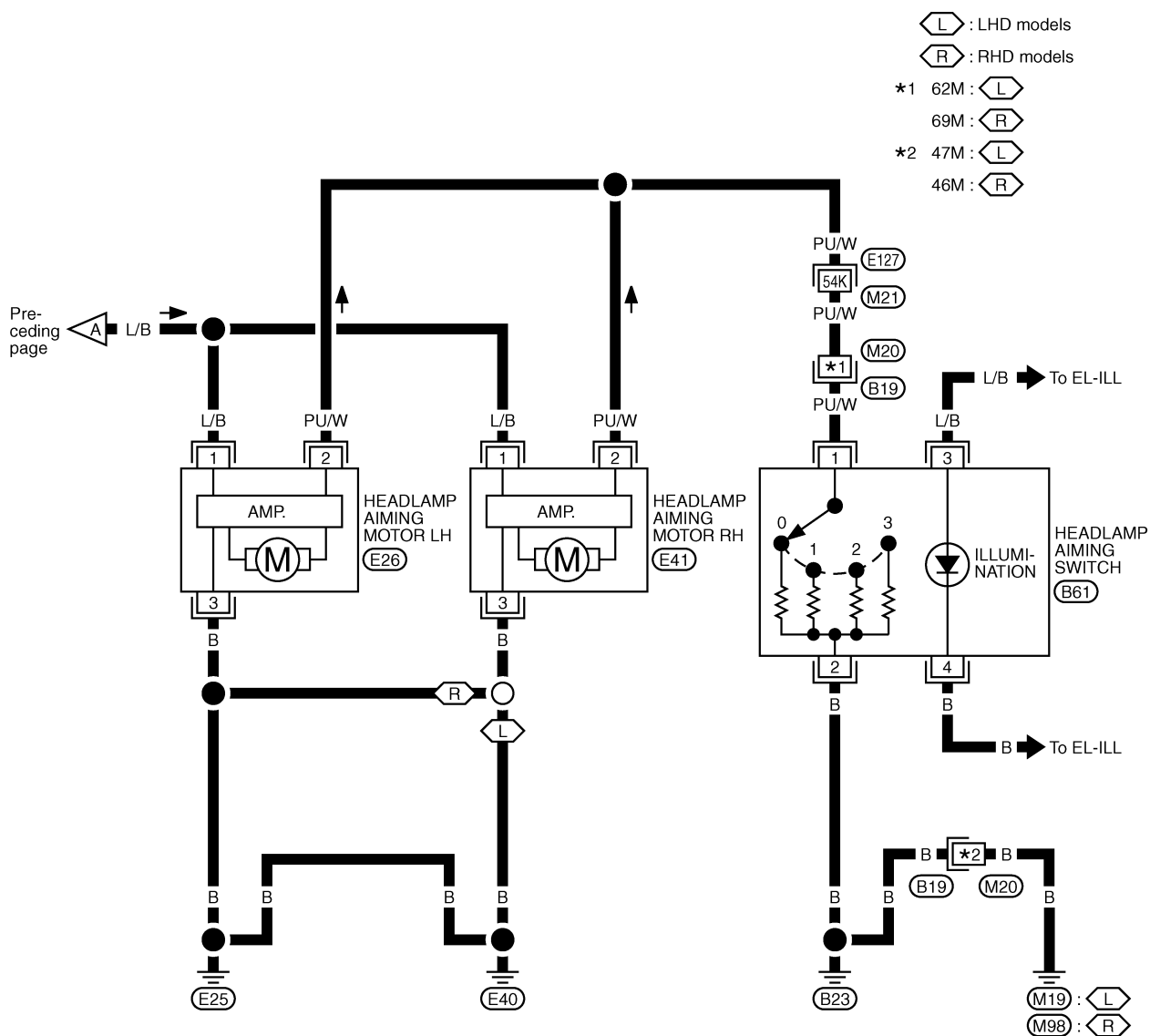
Refer to last page (Foldout page).



TEL976M

HEADLAMP/WAGON AND HARDTOP MODELS — Headlamp Aiming Control — Wiring Diagram — H/AIM —/Except for the Middle East (Cont'd)

EL-H/AIM-03



Refer to last page (Foldout page).

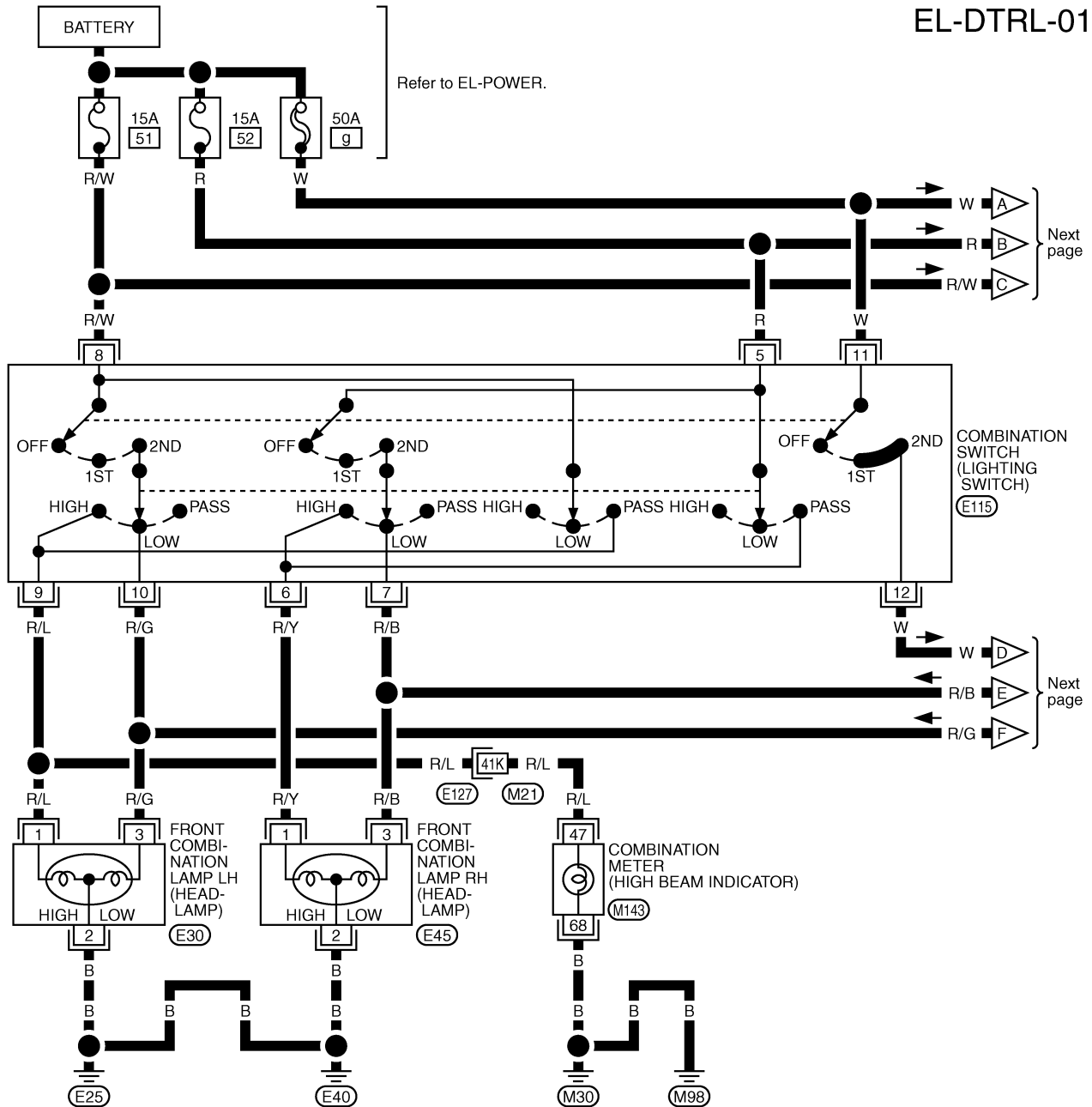
M20, B19
M21, E127

TEL977M

HEADLAMP/WAGON AND HARDTOP MODELS — Daytime Light System —

Wiring Diagram — DTRL —

EL-DTRL-01



45	46	47	48	49	50		51	52	53	54	55	M143	3	E30	E45	2	1	3		8	25	E115	21	E127	10	7	6	5	9	12	11	BR
56	57	58	59	60	61	62	63	64	65	66	67	68	1	2	B	B																

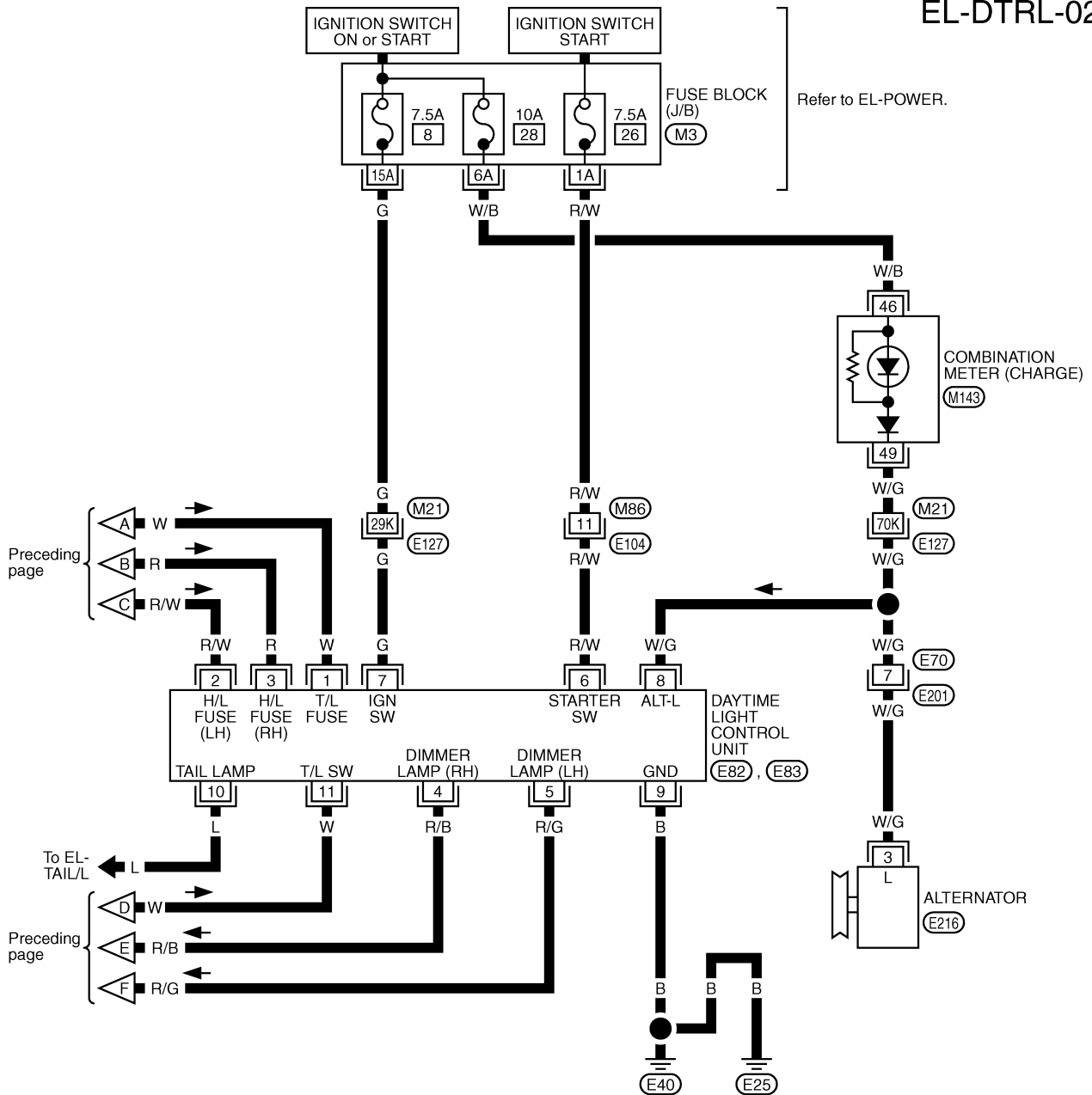
Refer to last page (Foldout page).

M21, E127

TEL978M

HEADLAMP/WAGON AND HARDTOP MODELS — Daytime Light System — Wiring Diagram — DTRL — (Cont'd)

EL-DTRL-02



45	46	47	48	49	50	51	52	53	54	55	M143
56	57	58	59	60	61	62	63	64	65	66	BR

1	9	10	E82	5	2	7	E83
11	12	13	GY	3	6	8	GY

1	2	3	4	5	E104
6	7	8	9	10	W

1	2	3	4	5	E201
6	7	8	9	10	GY

3	4	E216
		GY

Refer to last page (Foldout page).

M21, E127
M3

TEL656M

PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

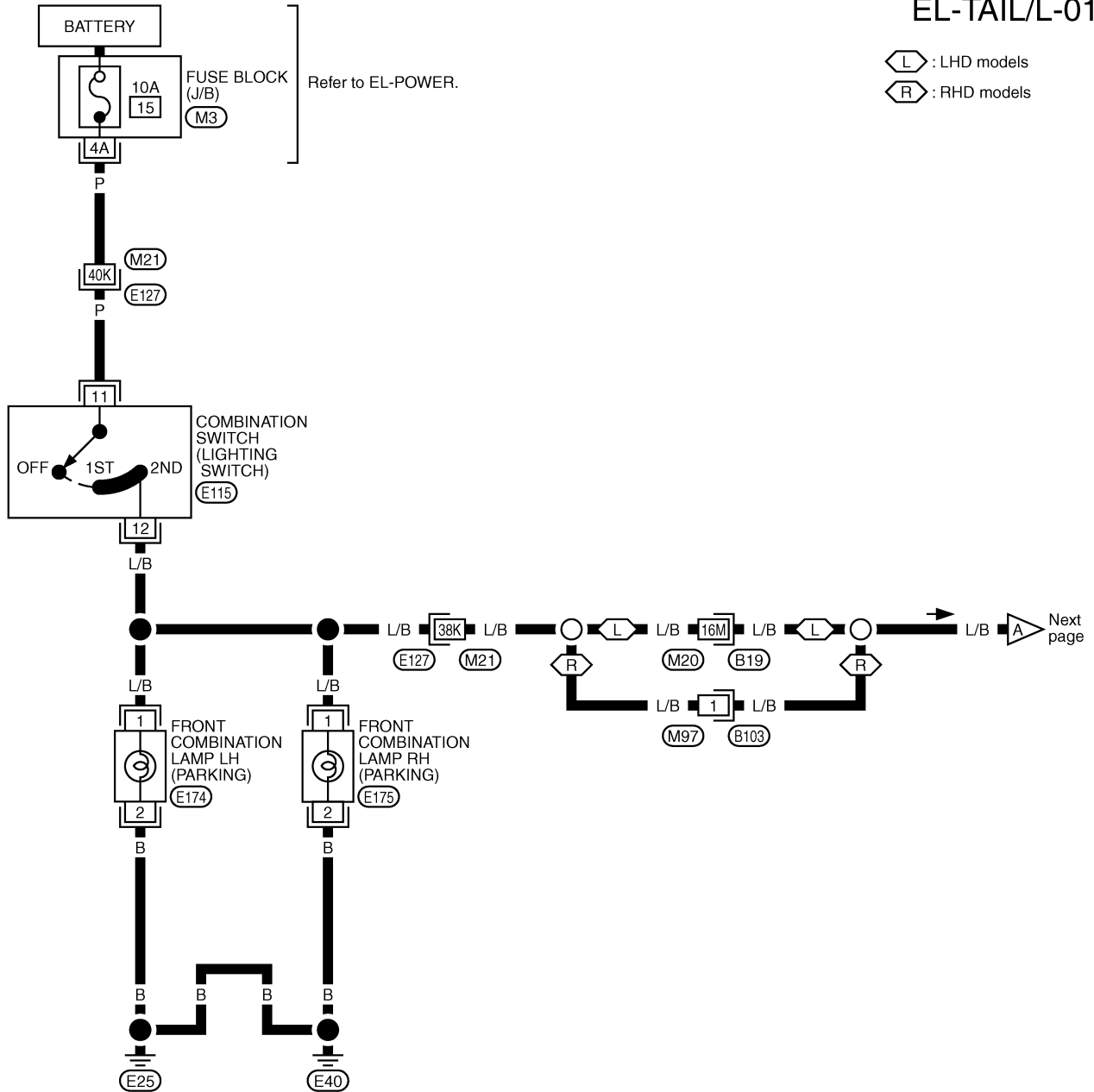
Wiring Diagram — TAIL/L —/Type A

Rear combination lamps are not located on rear bumper.

EL-TAIL/L-01

L : LHD models

R : RHD models



2	1	3	8	25
10	7	6	5	9

E115 : L
BR

10	9	8	11	12
2	1	3	7	6

E115 : R
BR

1	2
---	---

E174 : E175
B B

1	2	3	4	5	6	7
8	9	10	11	12	13	14

B103
W

Refer to last page (Foldout page).

M20 : B19

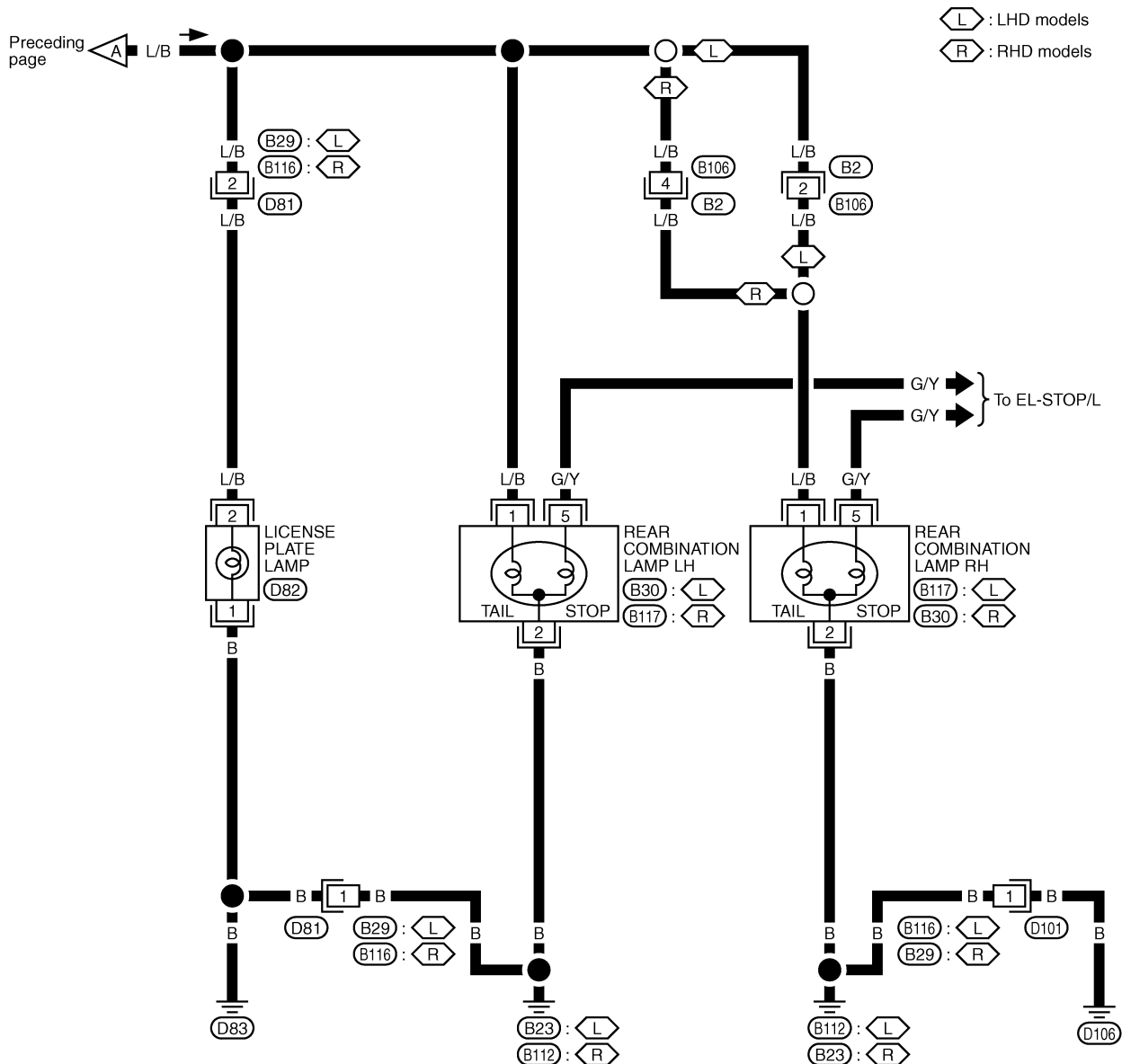
M21 : E127

M3



PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TAIL/L —/Type A (Cont'd)



EL-TAIL/L-02







1	2	3
4	5	6

 : 
W

1	2	3	4	5
6	7	8	9	10

 : 
W

1	2
3	4

 ,  ,  , 
W W W W

1
2


BR

TEL980M

EL-4050

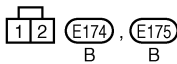
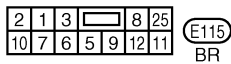
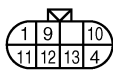
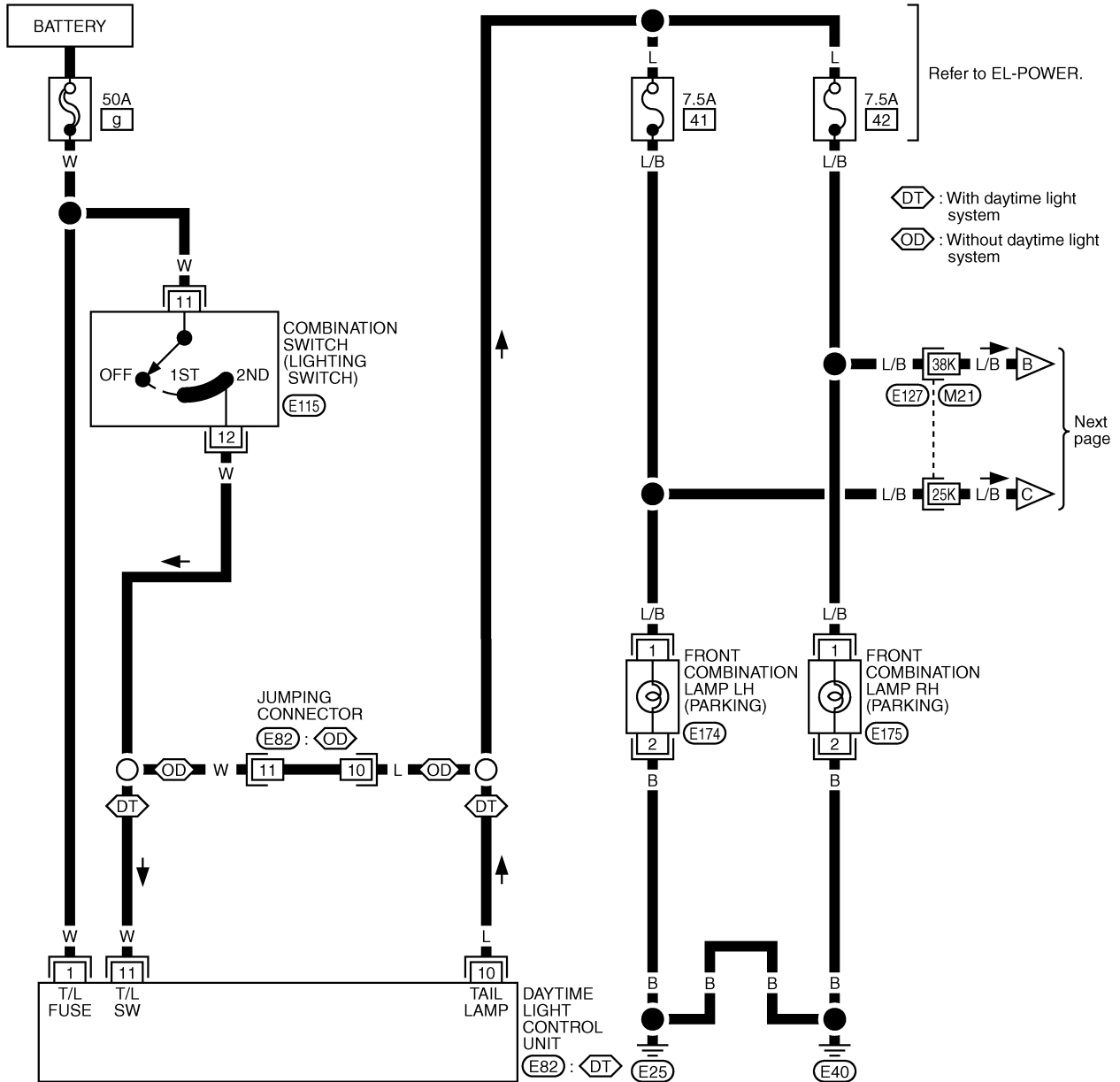
PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TAIL/L —/Type B

LHD MODELS FOR EUROPE

Rear combination lamps are located on rear bumper.

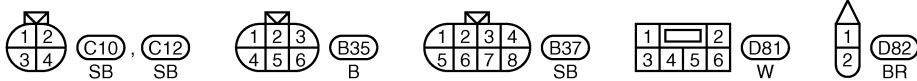
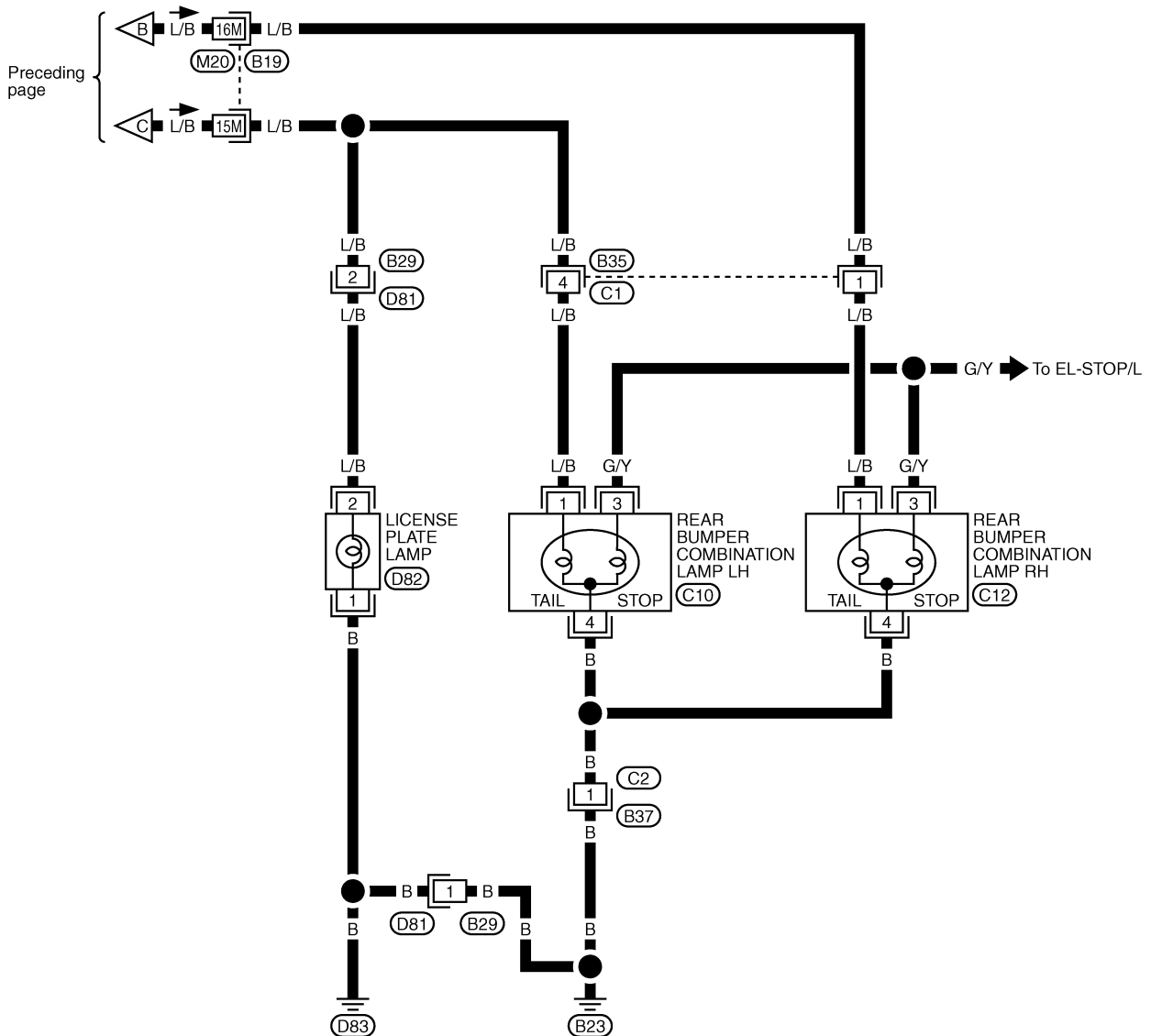
EL-TAIL/L-03



PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TAIL/L —/Type B (Cont'd)

EL-TAIL/L-04



Refer to last page (Foldout page).

(M20), (B19)

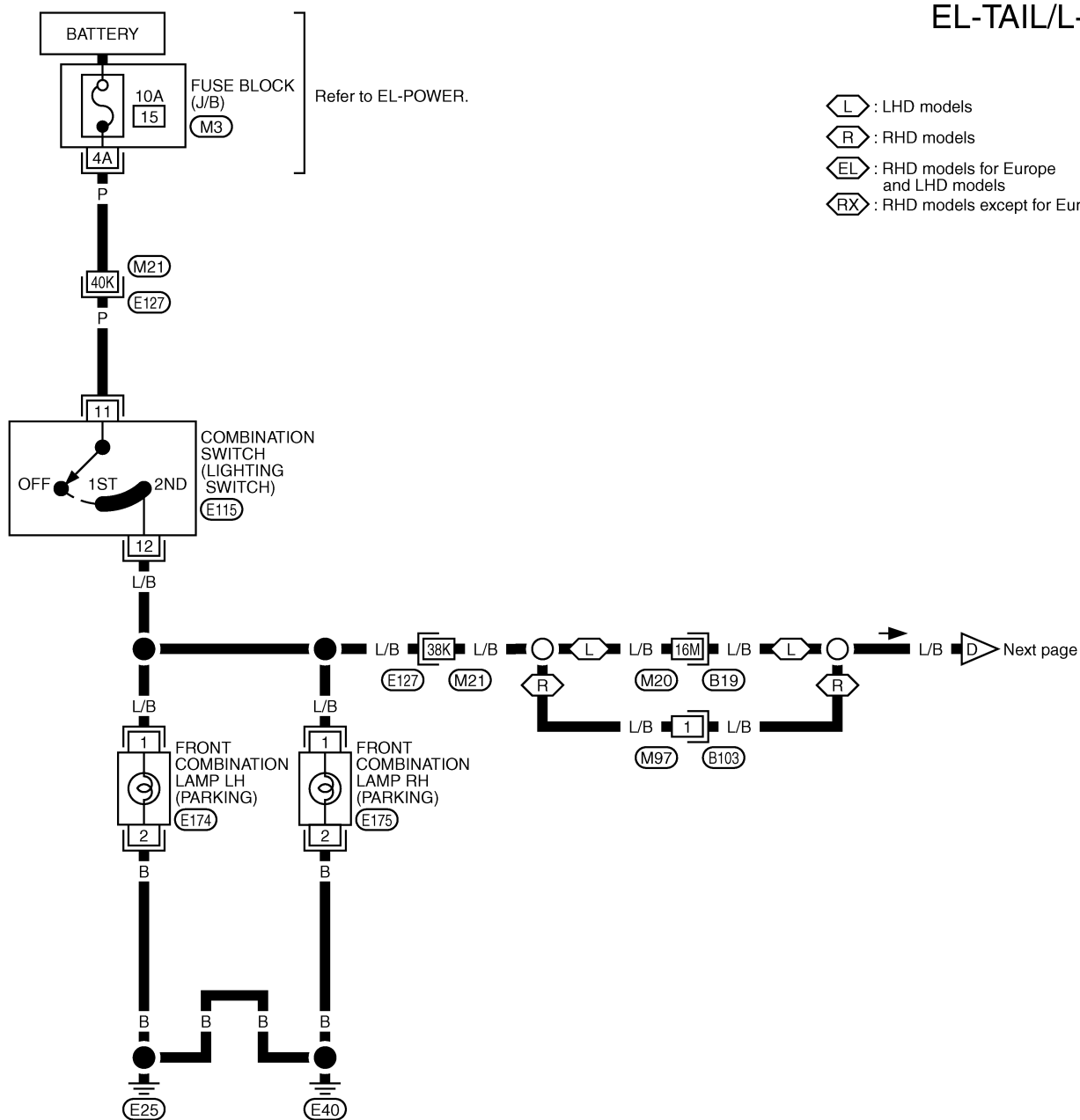
TEL982M

PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TAIL/L —/Type C

RHD MODELS FOR EUROPE, CHINA, AUSTRALIA AND SOUTH AFRICA
Rear combination lamps are located on rear bumper.

EL-TAIL/L-05



2	1	3	8	25
10	7	6	5	9

(E115) : <EL>
BR

10	9	8	11	12
2	1	3	7	6

(E115) : <RX>
BR

1	2
(E174)	(E175)

B B

1	2	3	4	5	6	7
8	9	10	11	12	13	14

(B103)
W

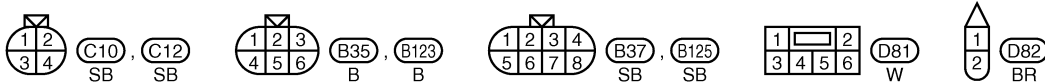
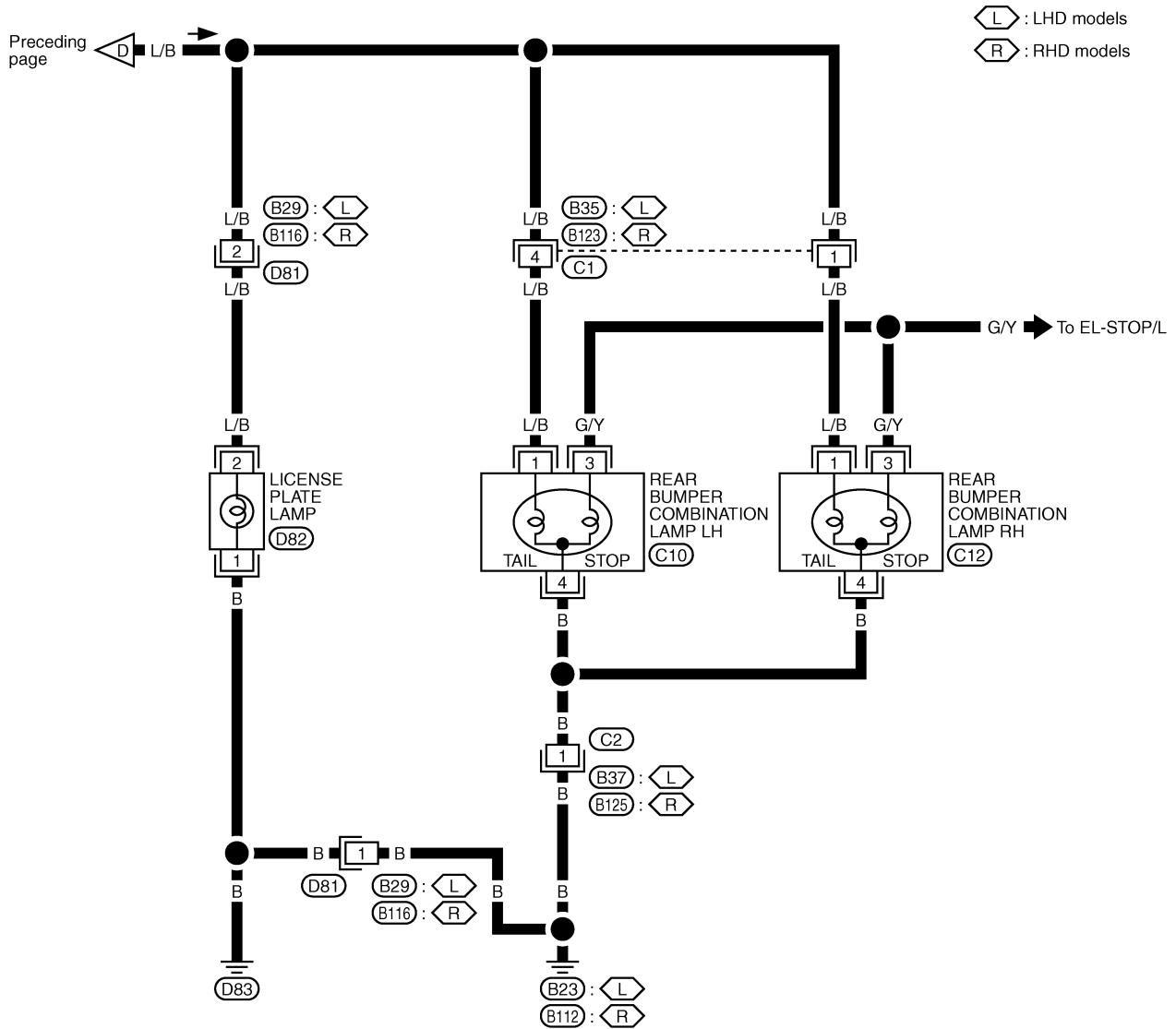
Refer to last page (Foldout page).

(M20)	(B19)
(M21)	(E127)
(M3)	

PARKING, LICENSE AND TAIL LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TAIL/L —/Type C (Cont'd)

EL-TAIL/L-06

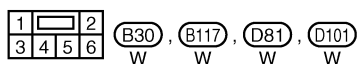
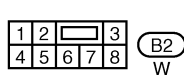
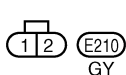
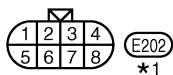
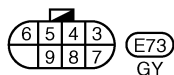
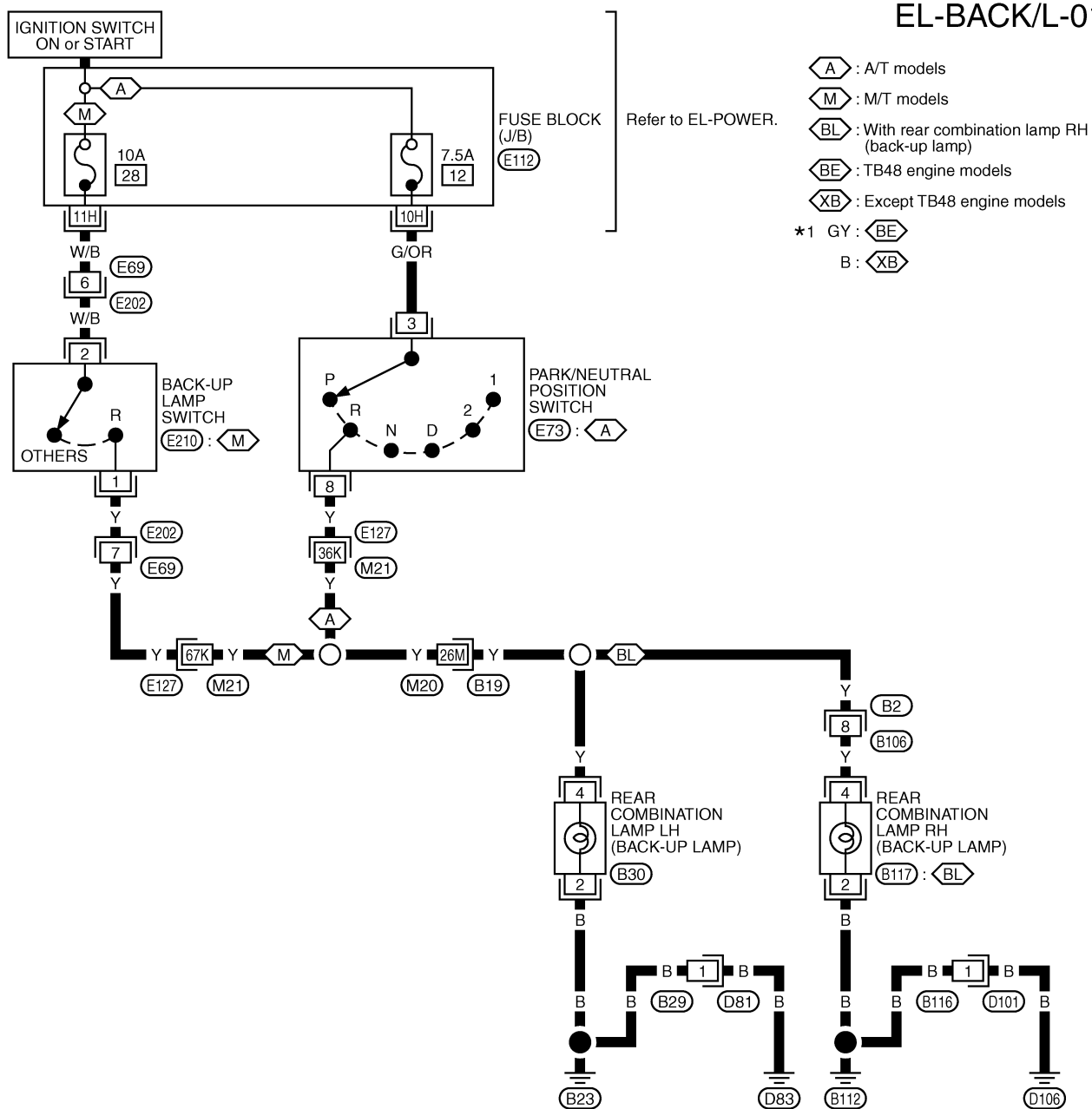


TEL984M

BACK-UP LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — BACK/L —/LHD Models Except TB48 Engine with A/T

EL-BACK/L-01



Refer to last page (Foldout page).

(M20), (B19)

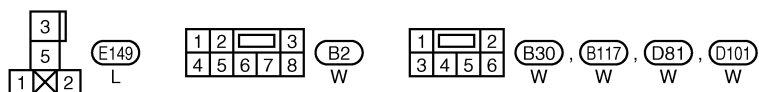
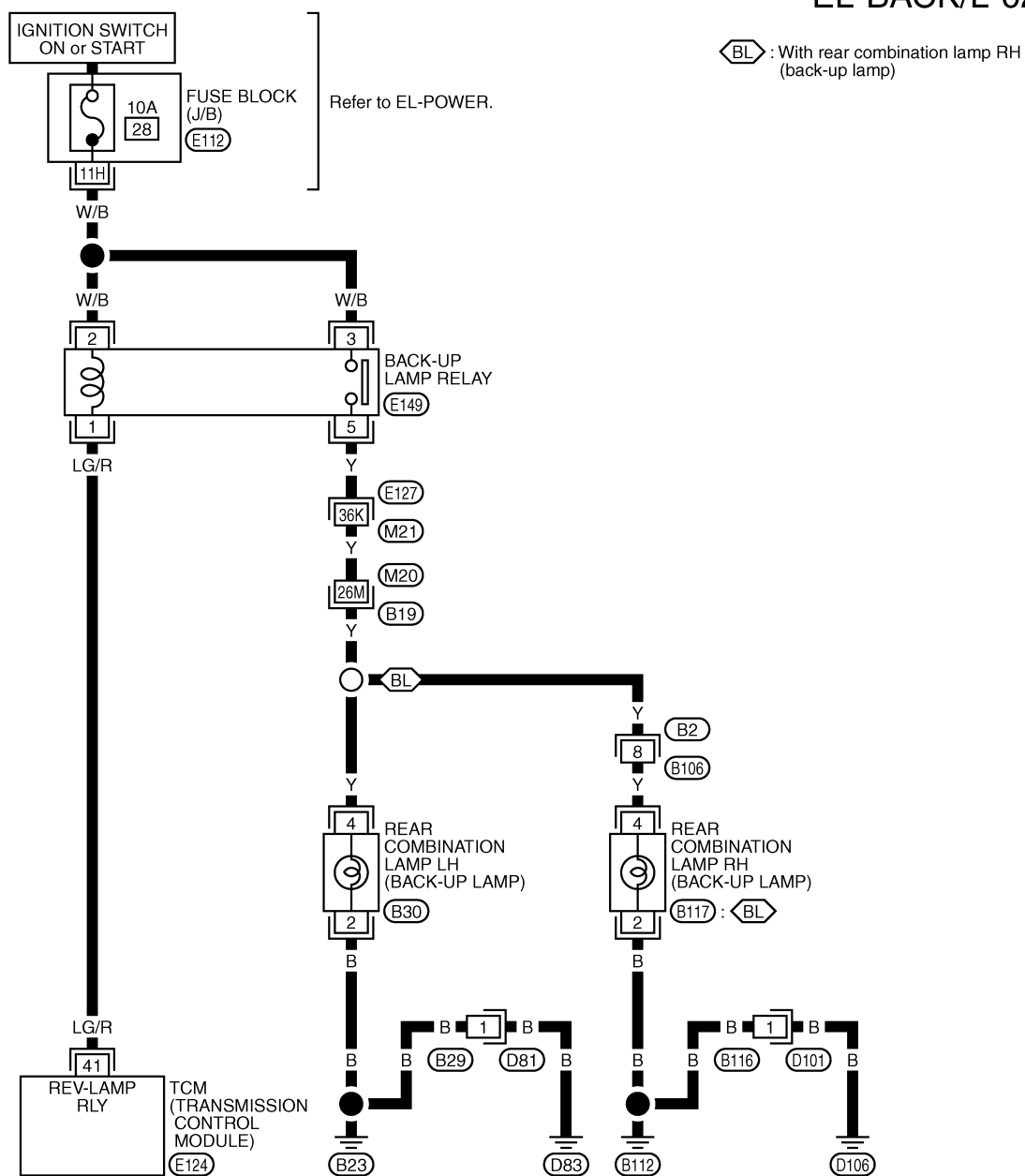
(M21), (E127)

(E112)

BACK-UP LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — BACK/L —/LHD Models for TB48 Engine with A/T

EL-BACK/L-02



Refer to last page (Foldout page).

(M20) (B19)

(M21), (E127)

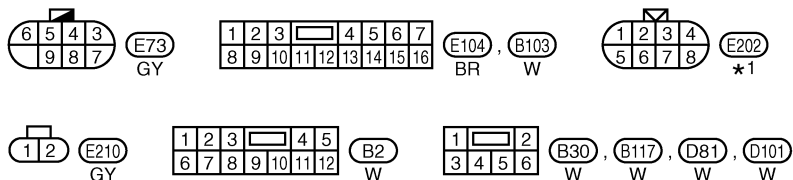
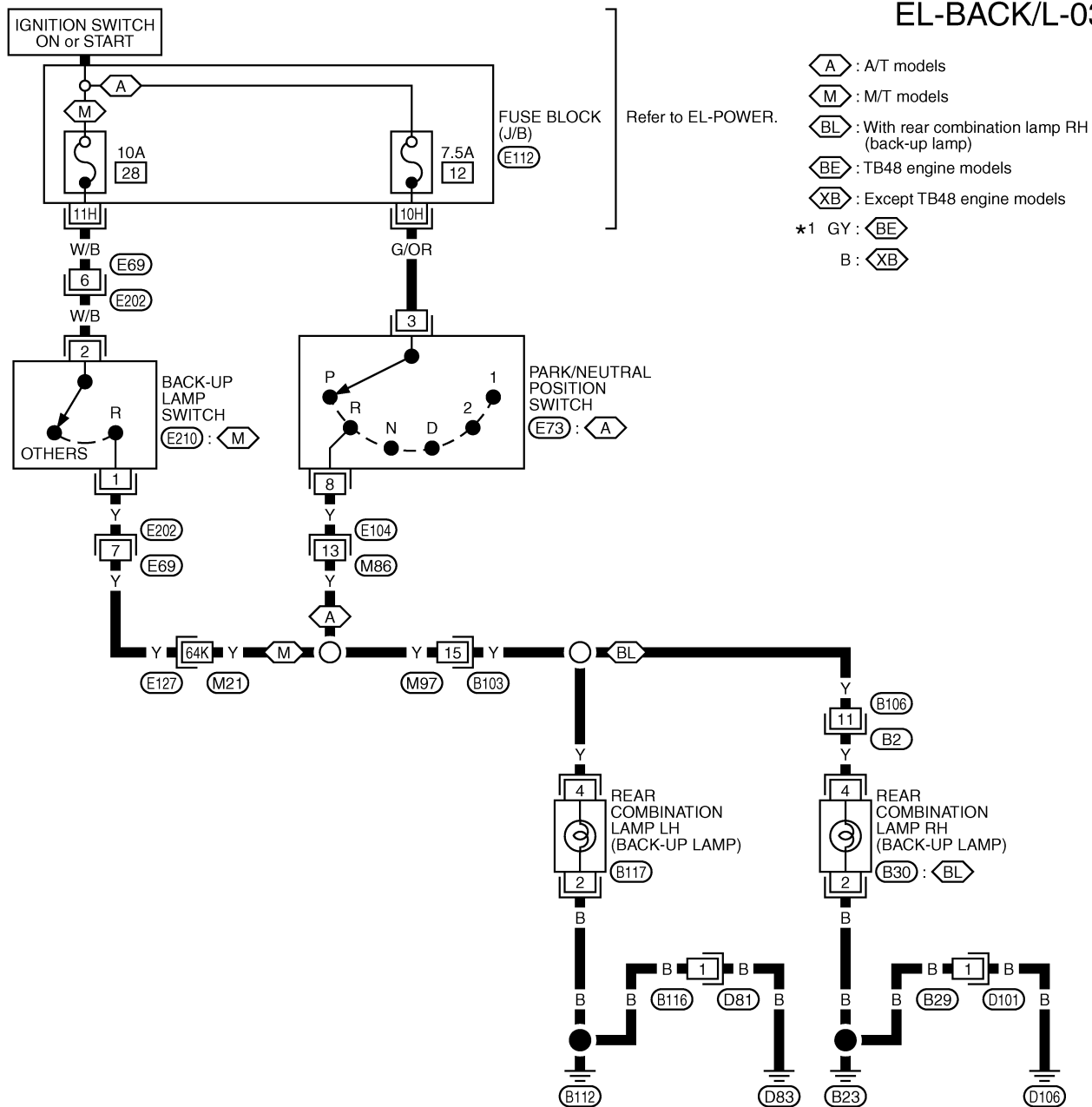
(E112)

(E124)

BACK-UP LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — BACK/L —/RHD Models Except TB48 Engine with A/T

EL-BACK/L-03



Refer to last page (Foldout page).

(M21), (E127)
(E112)

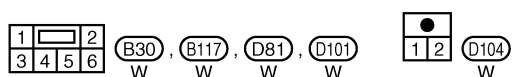
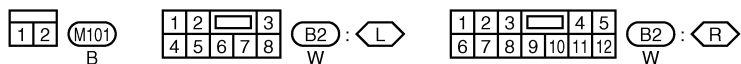
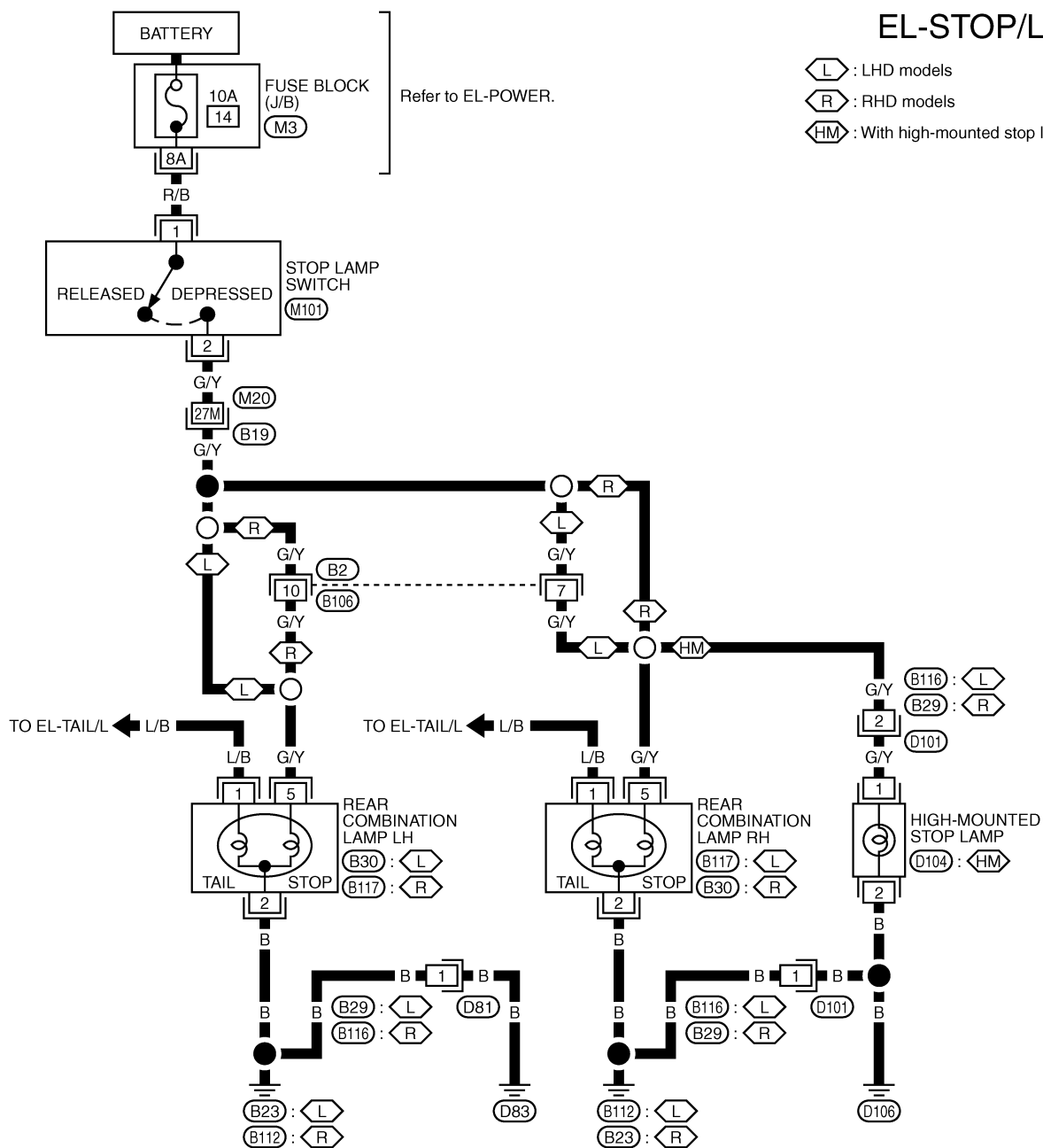


	(B30)	(B117)	(D81)	(D101)
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STOP LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — STOP/L —/Type A

REAR COMBINATION LAMPS ARE NOT LOCATED ON REAR BUMPER



Refer to last page (Foldout page).

(M20), (B19)
 (M3)

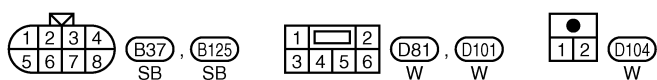
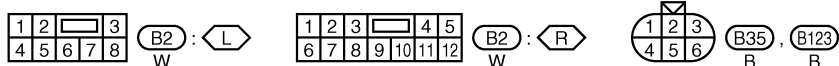
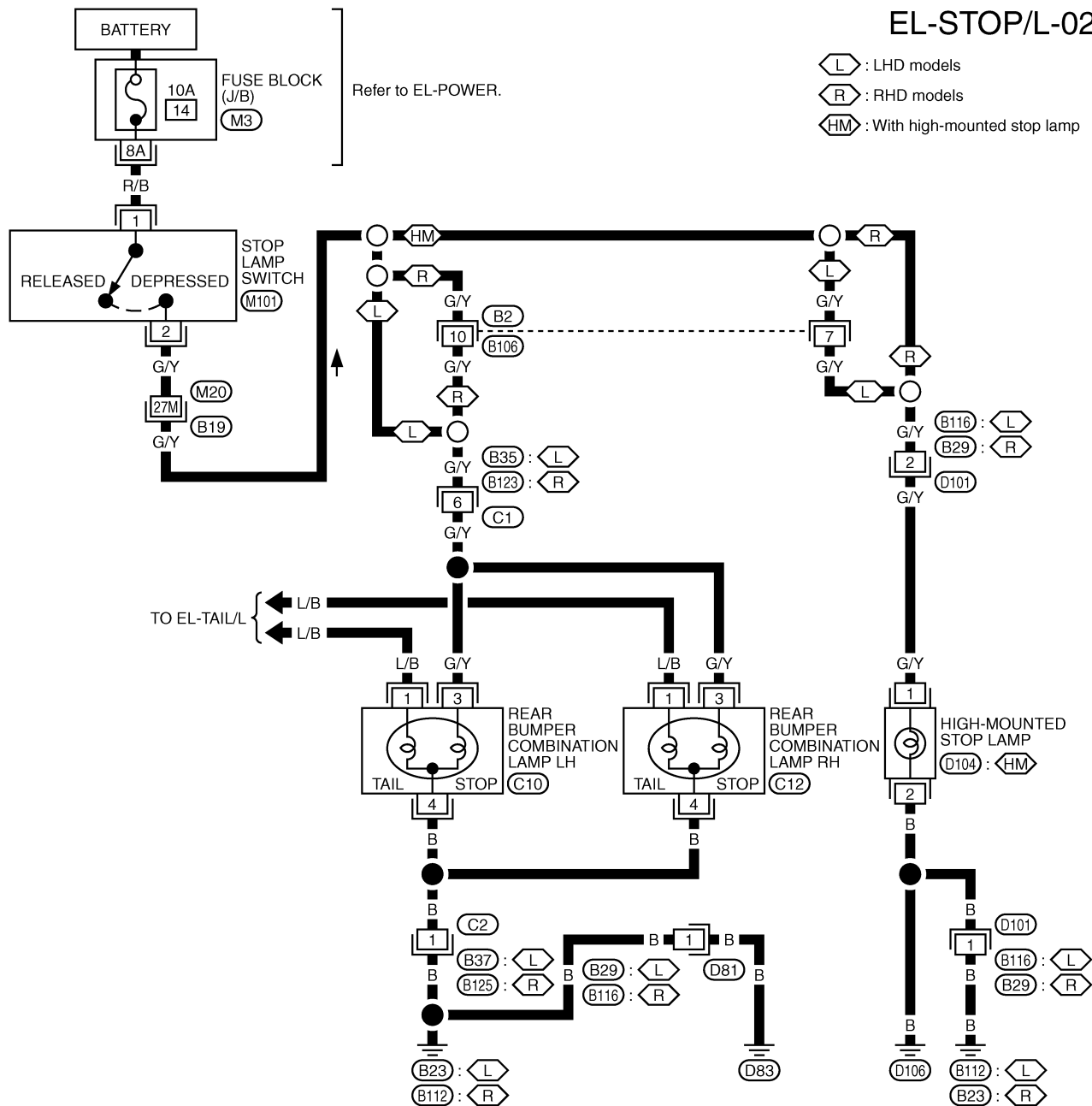
STOP LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — STOP/L —/Type B

REAR COMBINATION LAMPS ARE LOCATED ON REAR BUMPER

EL-STOP/L-02

- (L) : LHD models
- (R) : RHD models
- (HM) : With high-mounted stop lamp



Refer to last page (Foldout page).

(M20), (B19)
(M3)

FRONT FOG LAMP/WAGON AND HARDTOP MODELS

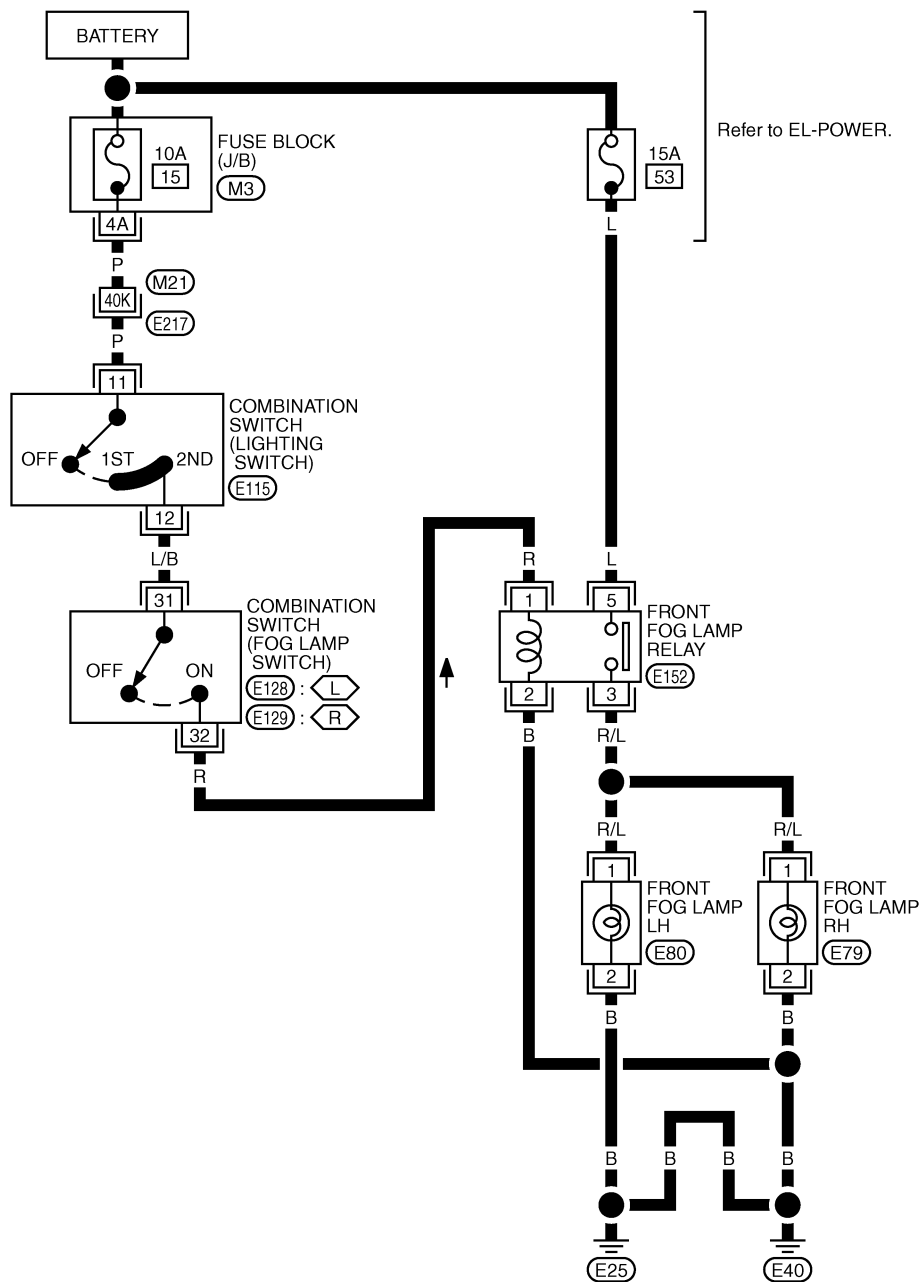
Wiring Diagram — F/FOG —/Except for Europe and China

EL-F/FOG-01

⬅ L : LHD models

➡ R : RHD models

Refer to EL-POWER.



1 2 E79, E80

2 1 3 8 25 E115 : L
10 7 6 5 9 12 11 BR

10 9 8 11 12 E115 : R
2 1 3 7 6 5 25 BR

34 33 31 E128
63 61 32 62 W

31 E129
32 W

3 E152
5 L
1 2

Refer to last page (Foldout page).

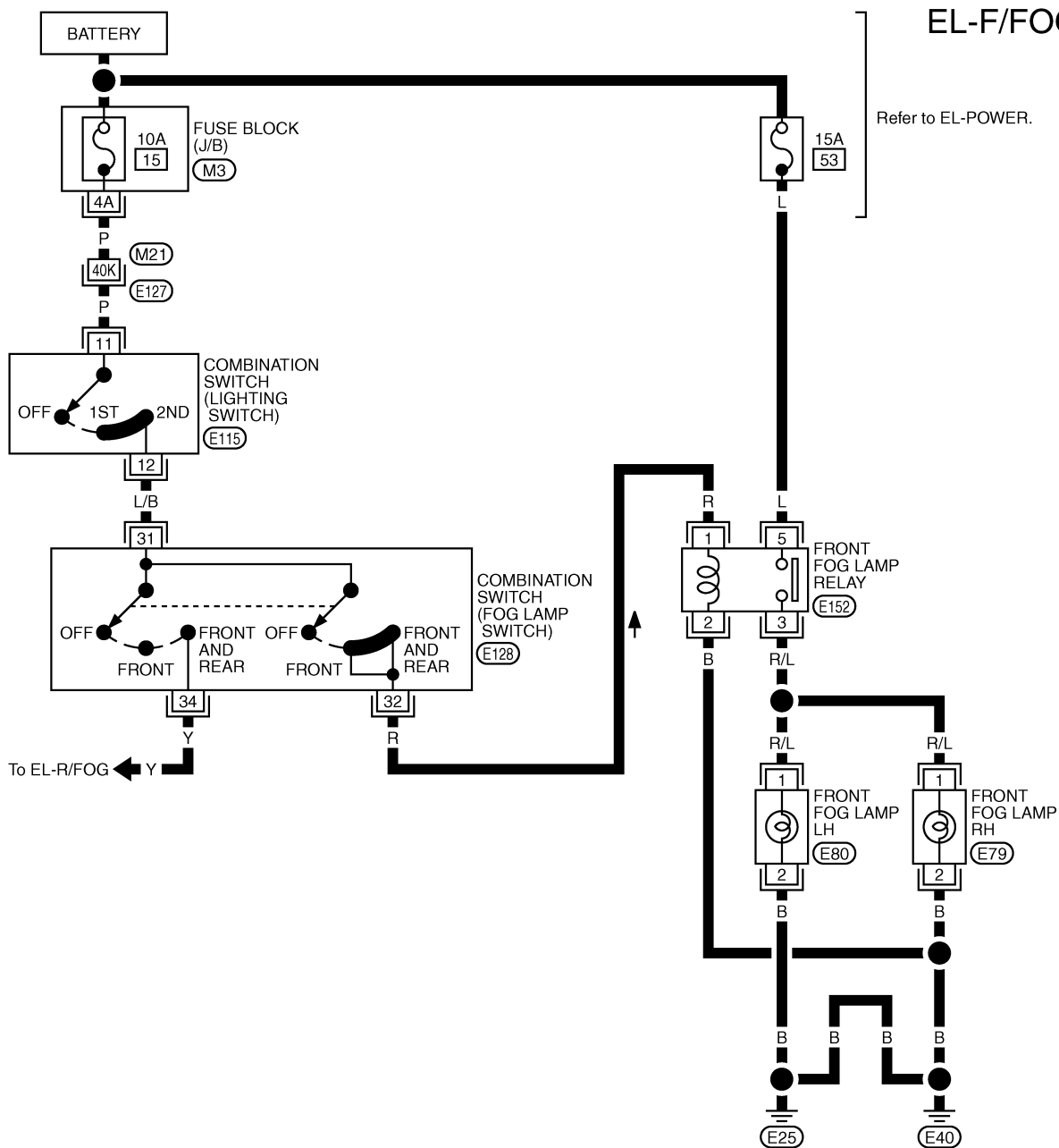
M21, E127

M3

FRONT FOG LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — F/FOG —/RHD Models for Europe and China

EL-F/FOG-02



1 2 E79, E80

2 1 3 8 25 E115
10 7 6 5 9 12 11 BR

34 33 31 E128
63 61 32 62 W

3
5 E152
1 X 2 L

Refer to last page (Foldout page).

M21, E127

M3

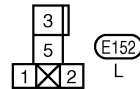
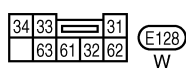
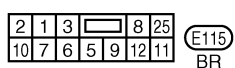
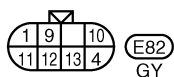
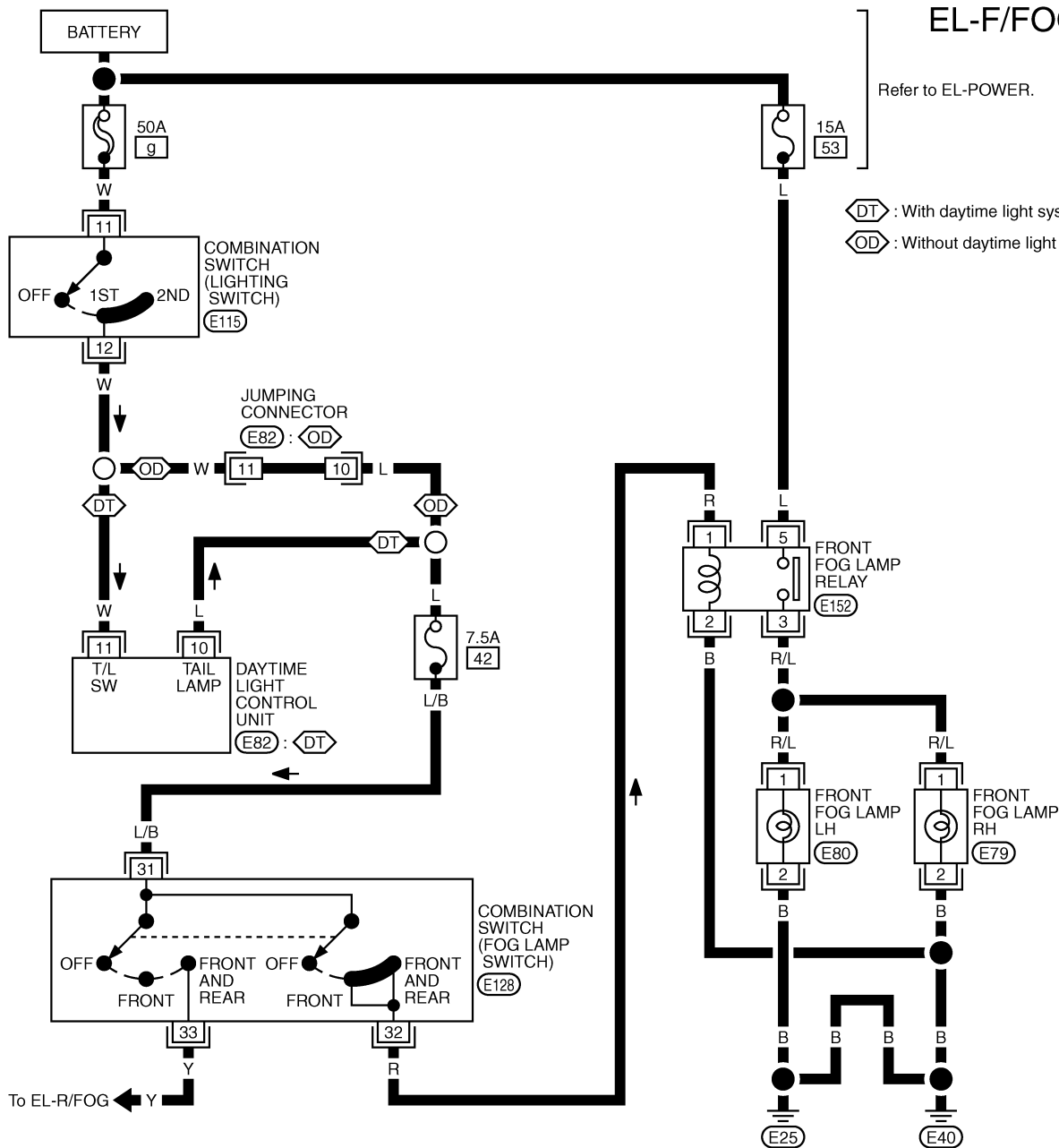
FRONT FOG LAMP/WAGON AND HARDTOP MODELS

Wiring Diagram — F/FOG —/LHD Models for Europe

EL-F/FOG-03

Refer to EL-POWER.

DT : With daytime light system
OD : Without daytime light system

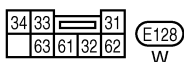
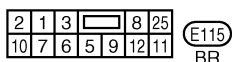
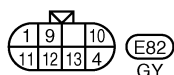
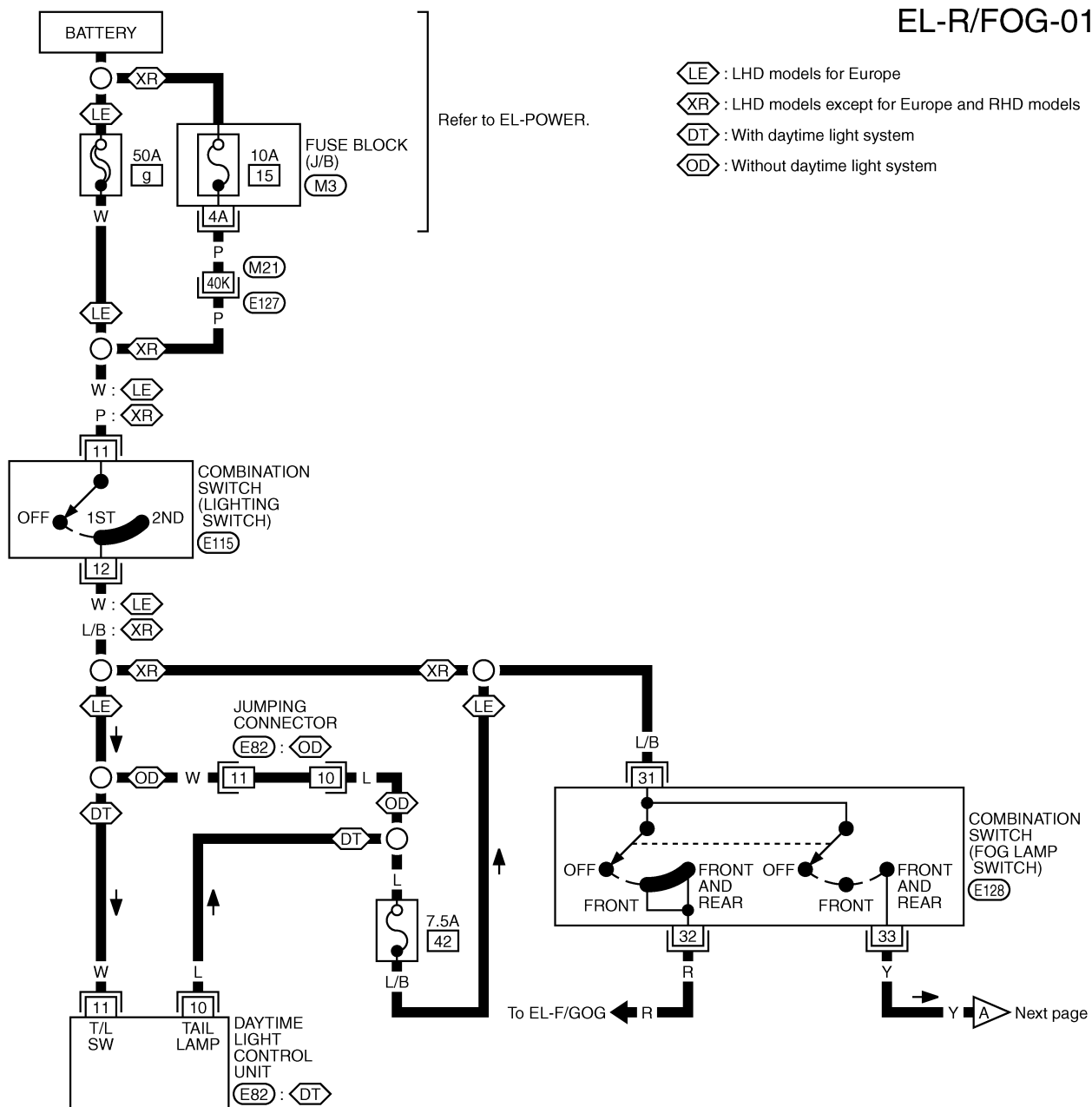


REAR FOG LAMP/WAGON AND HARDTOP MODELS

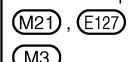
Wiring Diagram — R/FOG —/For Europe and China

WITH FRONT FOG LAMP

EL-R/FOG-01

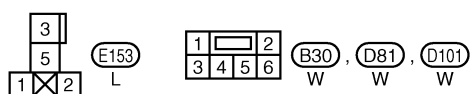
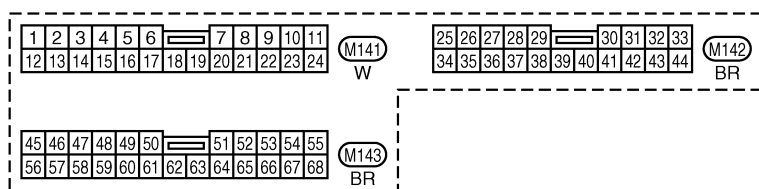
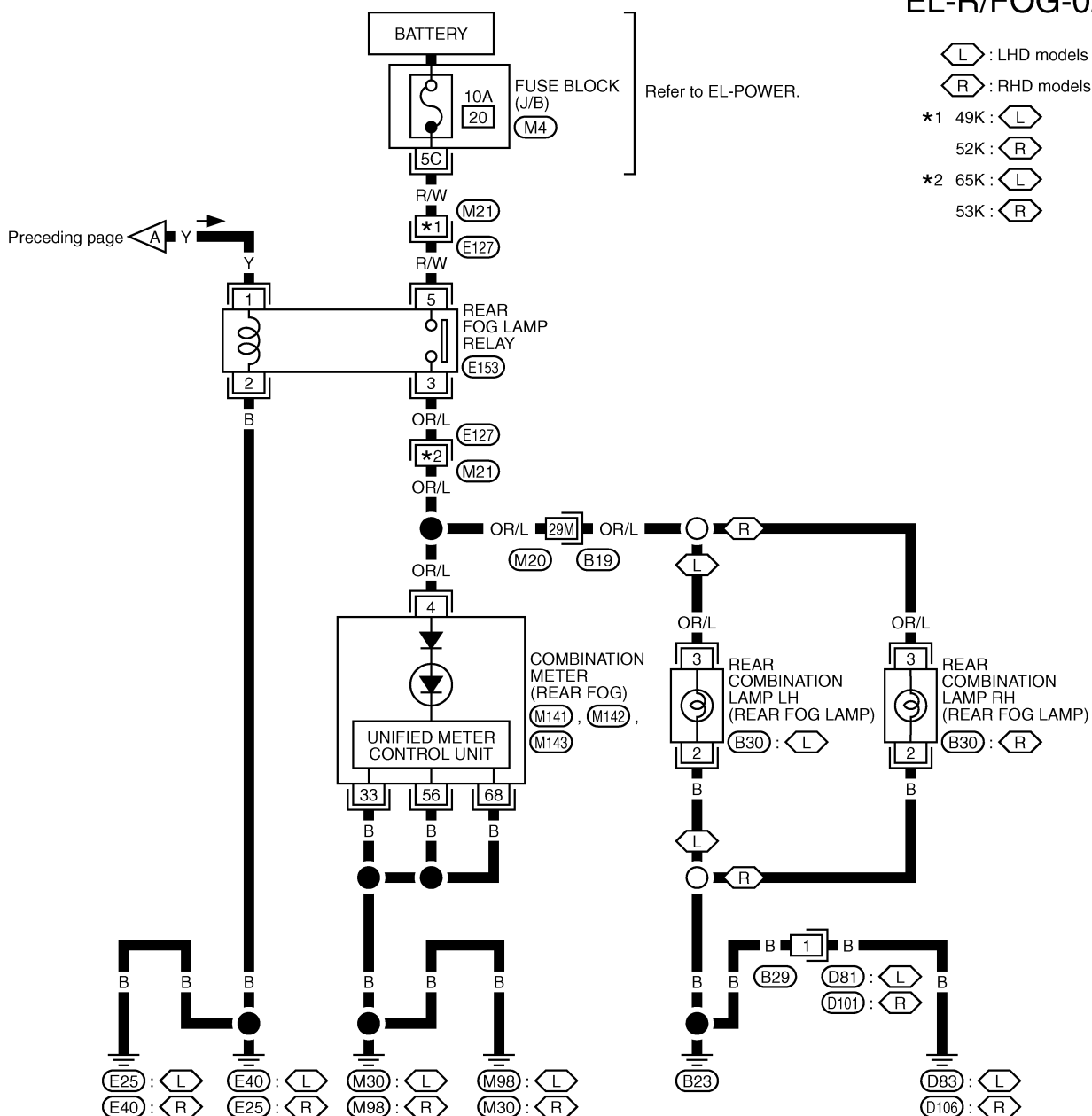


Refer to last page (Foldout page).



Wiring Diagram — R/FOG —/For Europe and China (Cont'd)

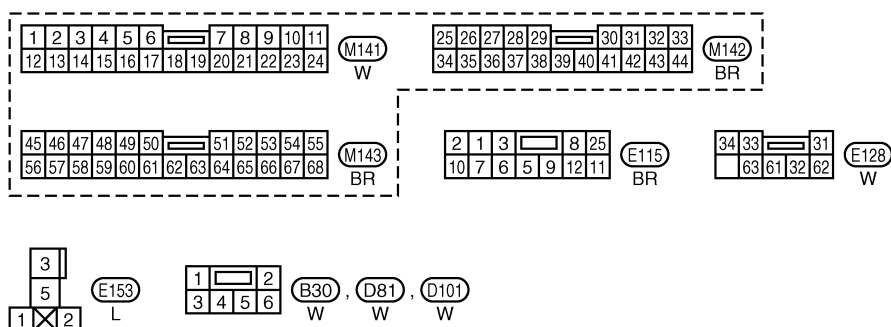
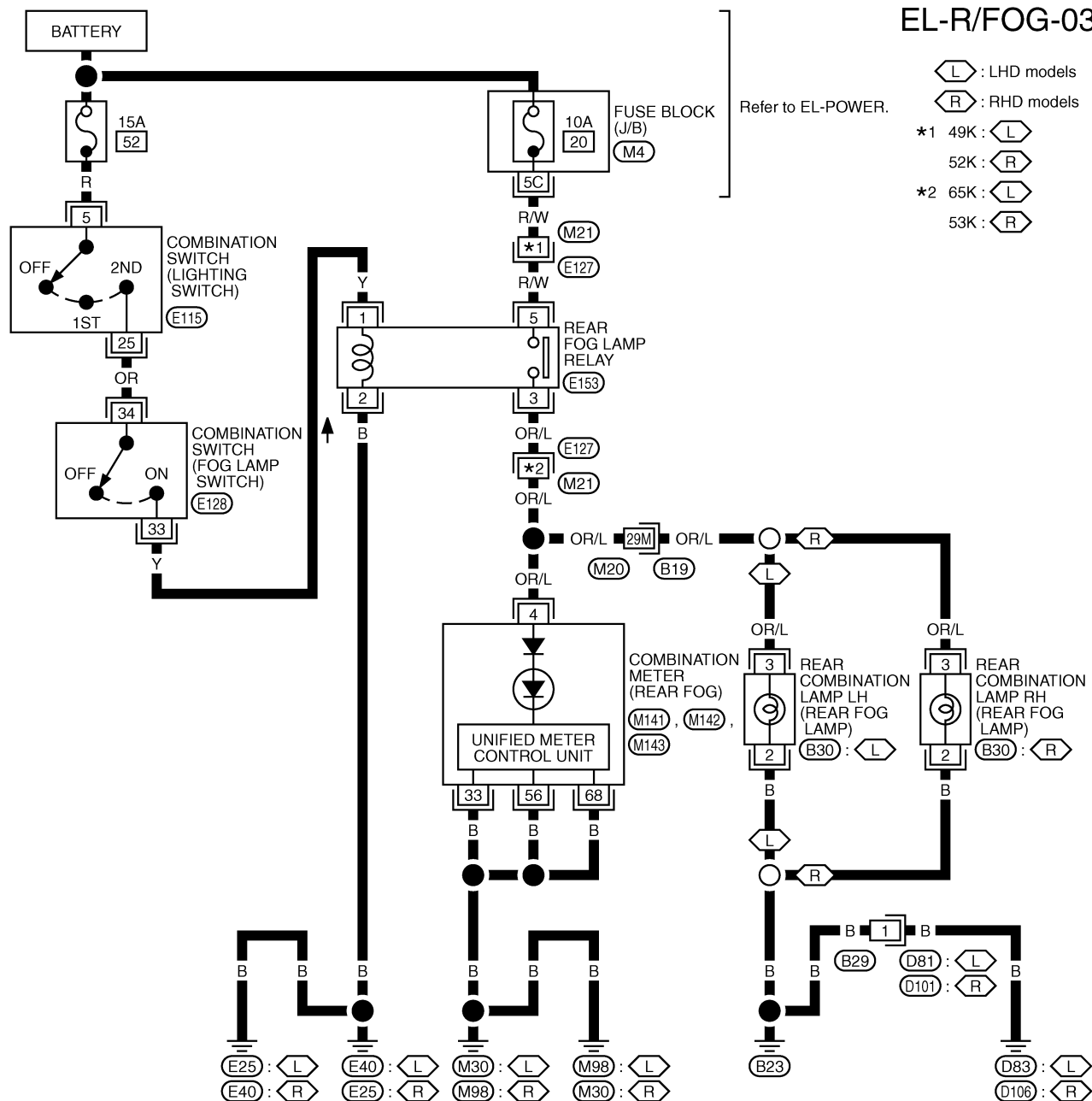
EL-R/FOG-02



M20, B19
M21, E127
M4

Wiring Diagram — R/FOG —/For Europe and China (Cont'd)

EL-R/FOG-03



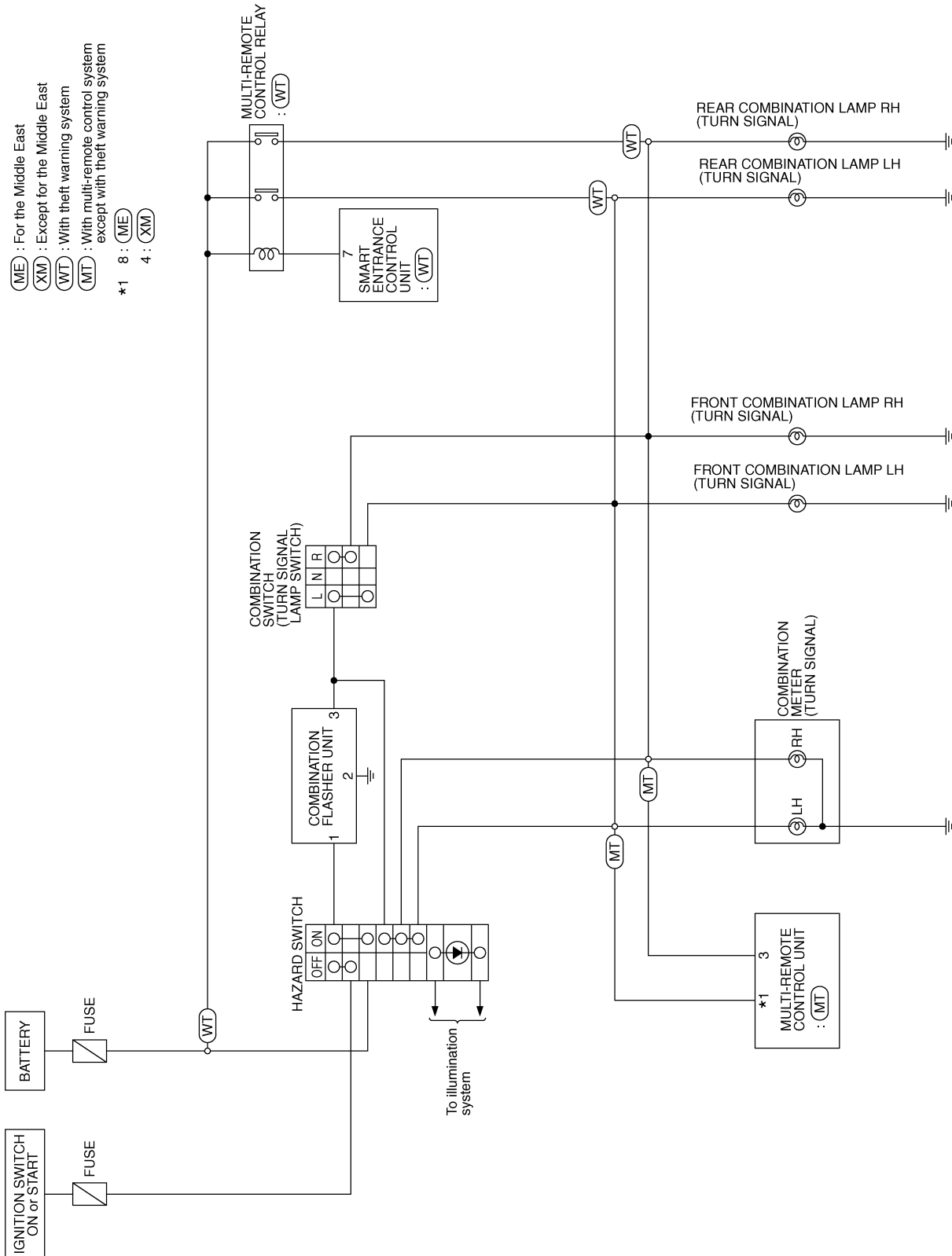
M20, B19
M21, E127
M4

TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Schematic

LHD MODELS EXCEPT FOR EUROPE AND CHINA (TYPE A)

Rear combination lamps are not located on rear bumper.

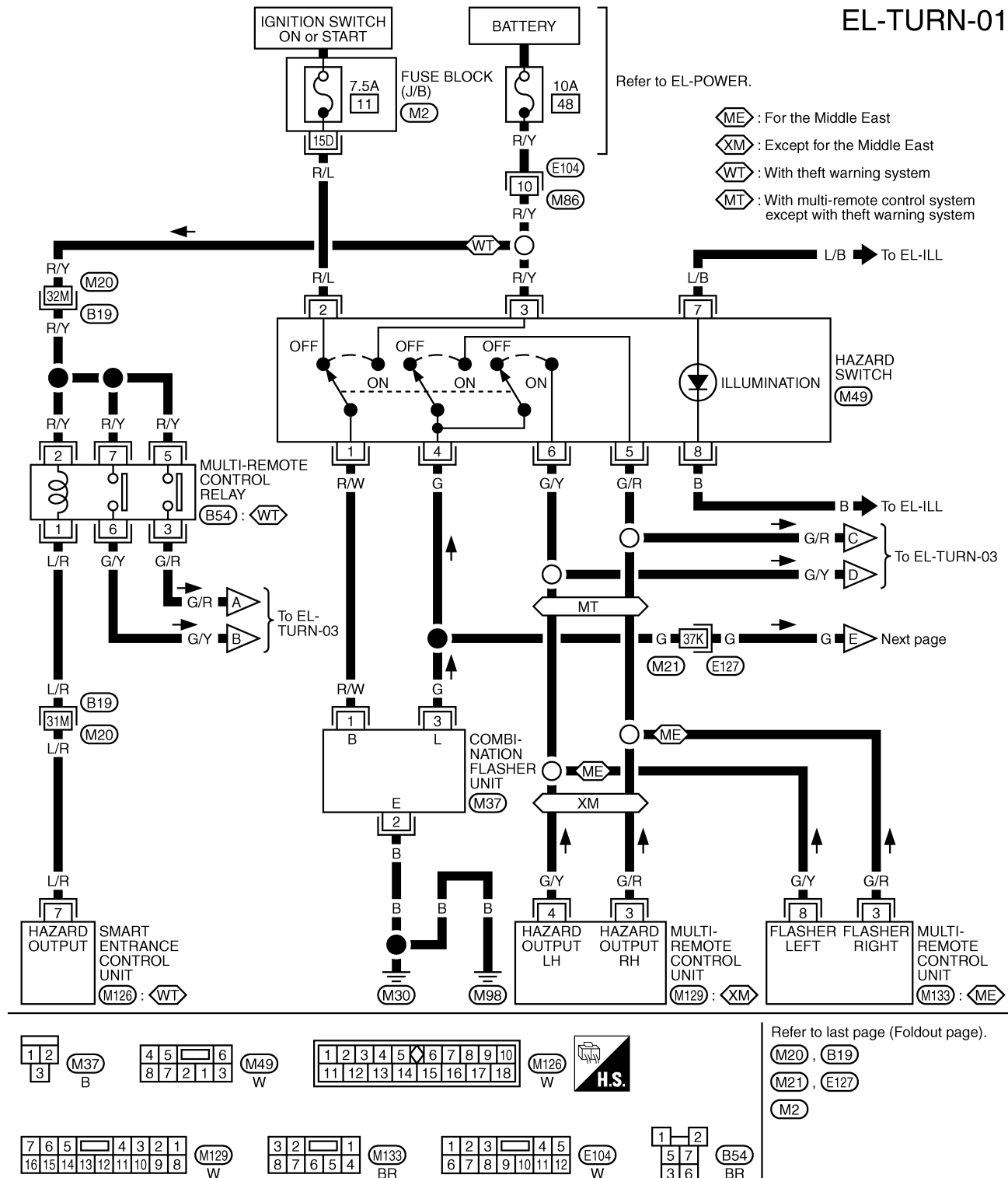


TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type A

LHD MODELS EXCEPT FOR EUROPE AND CHINA
Rear combination lamps are not located on rear bumper.

EL-TURN-01



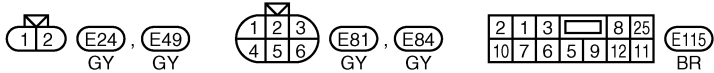
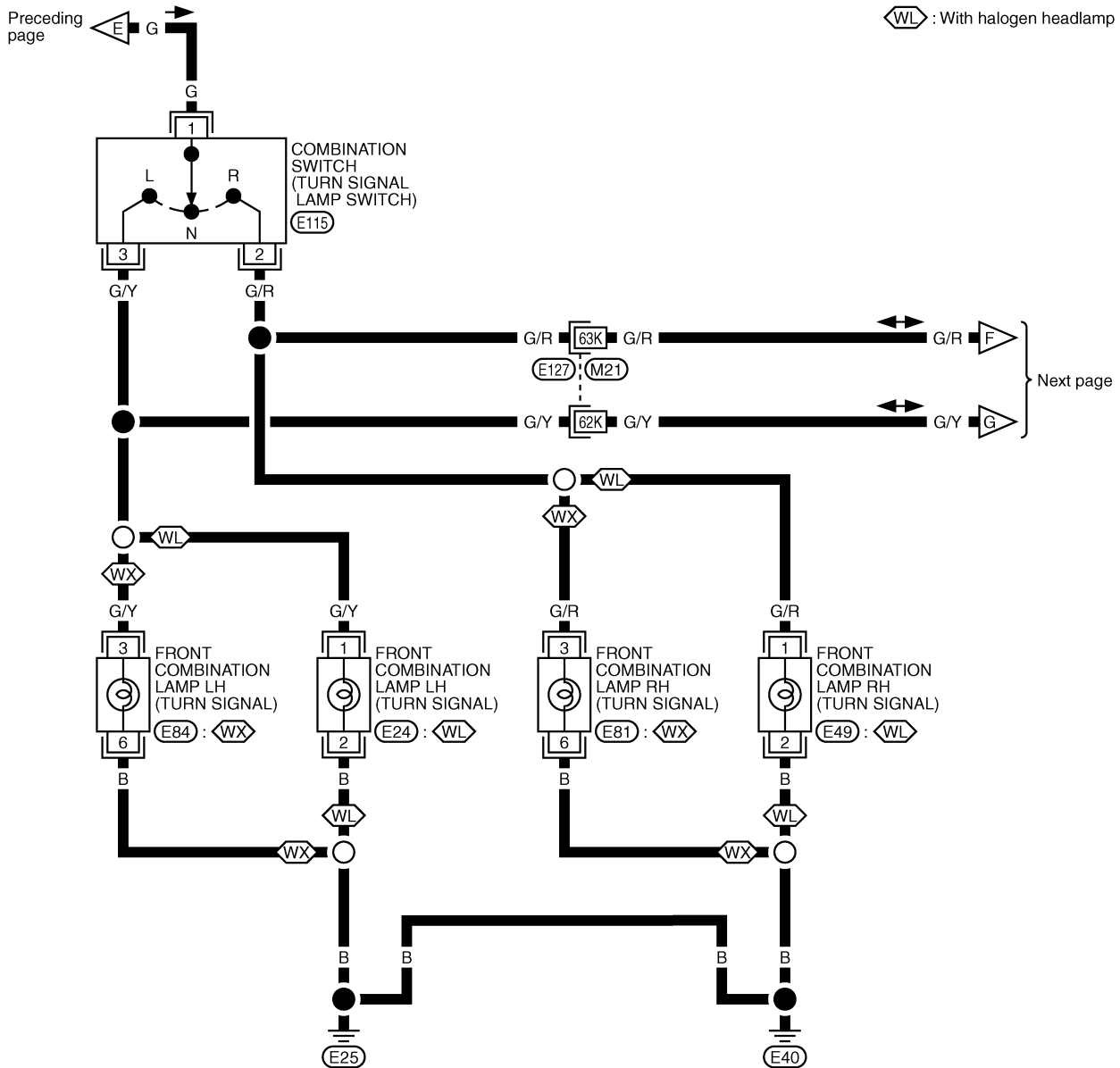
TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type A (Cont'd)

EL-TURN-02

WX : With xenon headlamp

WL : With halogen headlamp



Refer to last page (Foldout page).

(M21) , (E127)

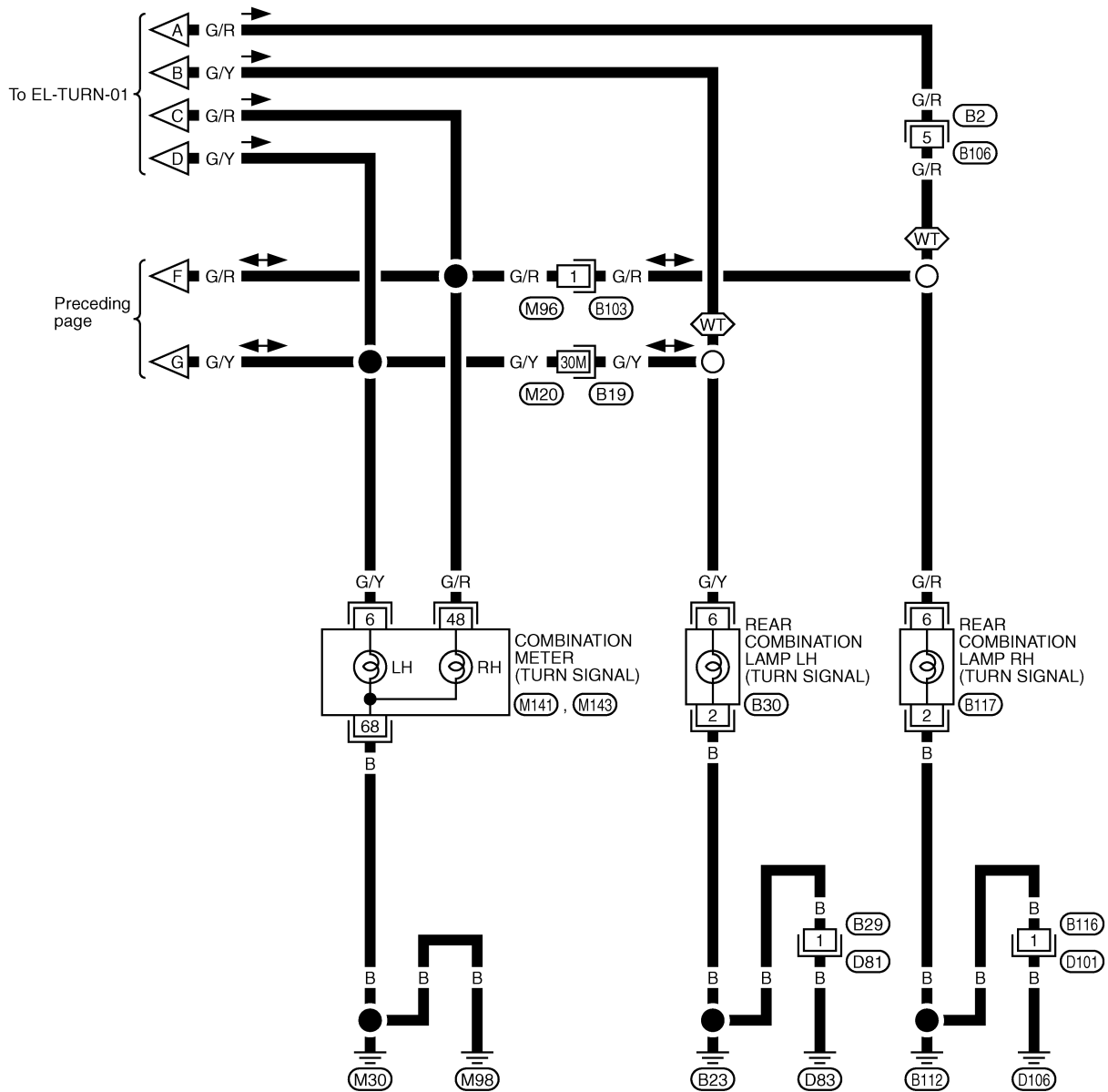
TEL999M

TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type A (Cont'd)

EL-TURN-03

WT : With theft warning system



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	M141 W	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	M143 BR
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	------------

1	2	3	4	5	6	7	8	B2 W	1	2	3	4	5	6	B30, B117, D81, D101 W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	B103 W
---	---	---	---	---	---	---	---	---------	---	---	---	---	---	---	---------------------------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	-----------

Refer to last page (Foldout page).

M20, B19

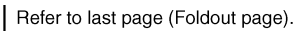
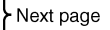
TEL001N

EL-4070

Wiring Diagram — TURN —/Type A (Cont'd)

Refer to EL-POWER.

MT : With multi-remote control system
except with theft warning system



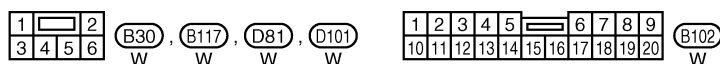
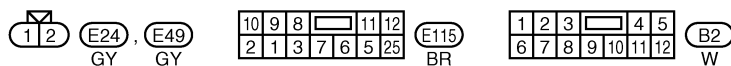
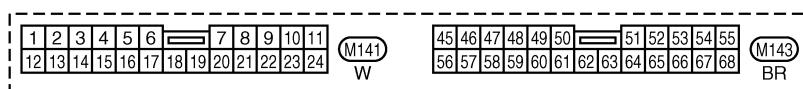
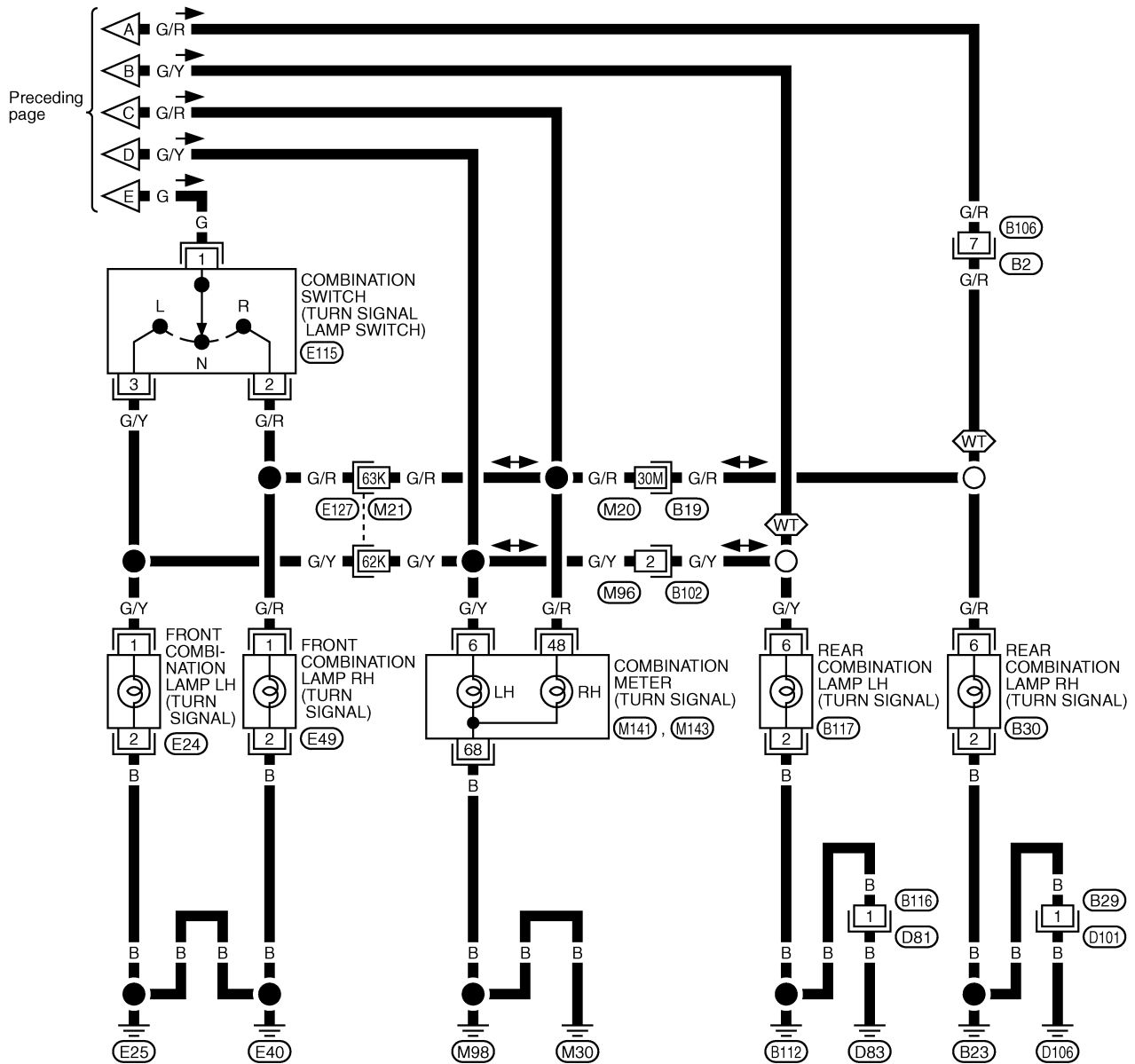
M2

TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type A (Cont'd)

EL-TURN-05

◻WT◻ : With theft warning system



Refer to last page (Foldout page).

(M20, B19)

(M21, E127)

TEL003N

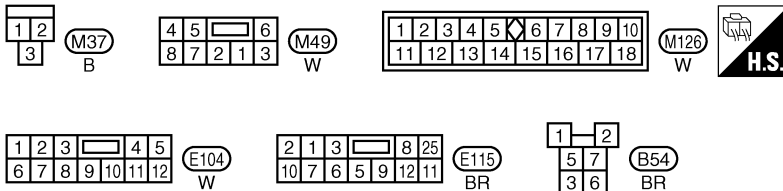
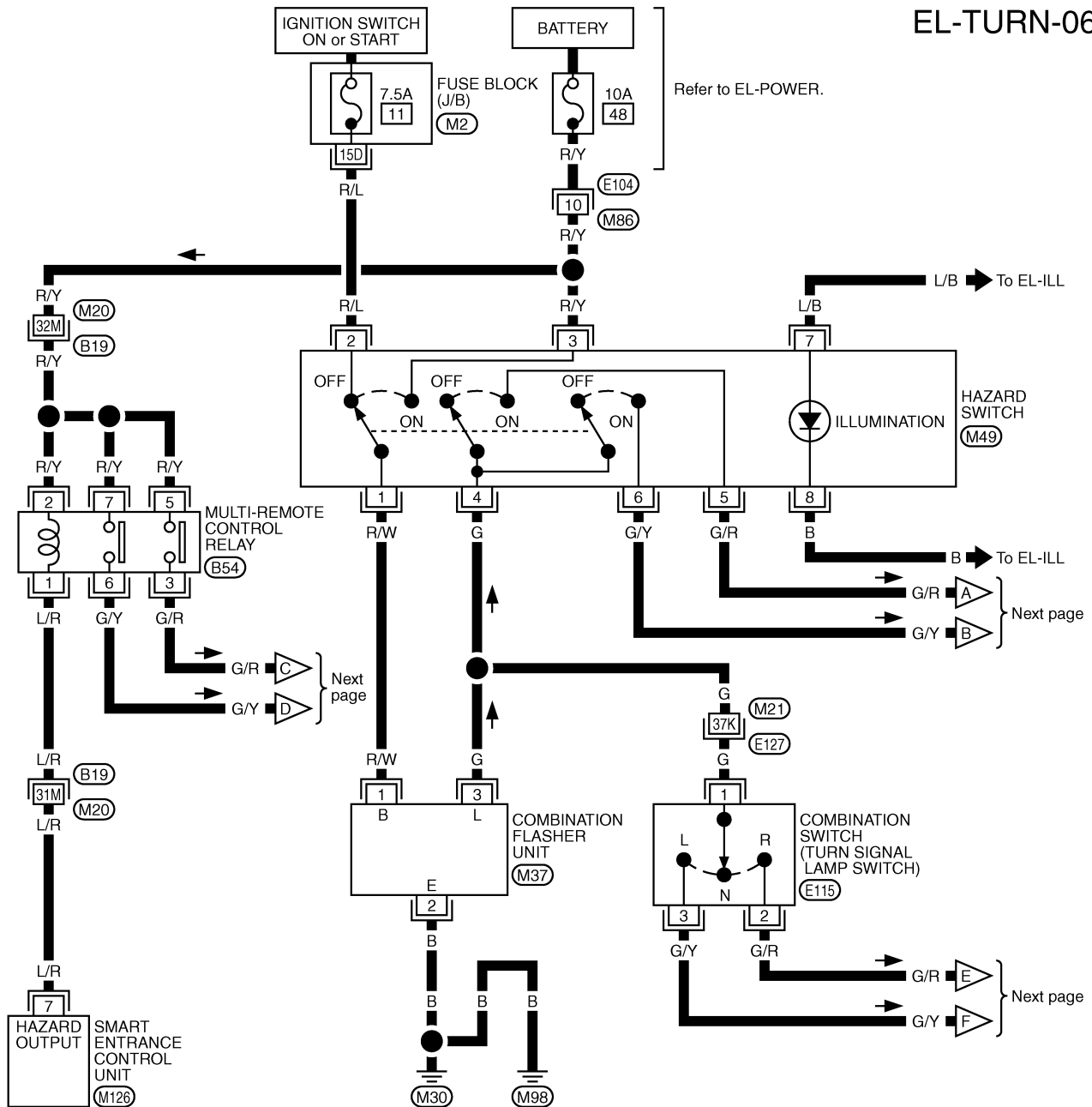
TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type B

FOR CHINA

Rear combination lamps are located on rear bumper.

EL-TURN-06



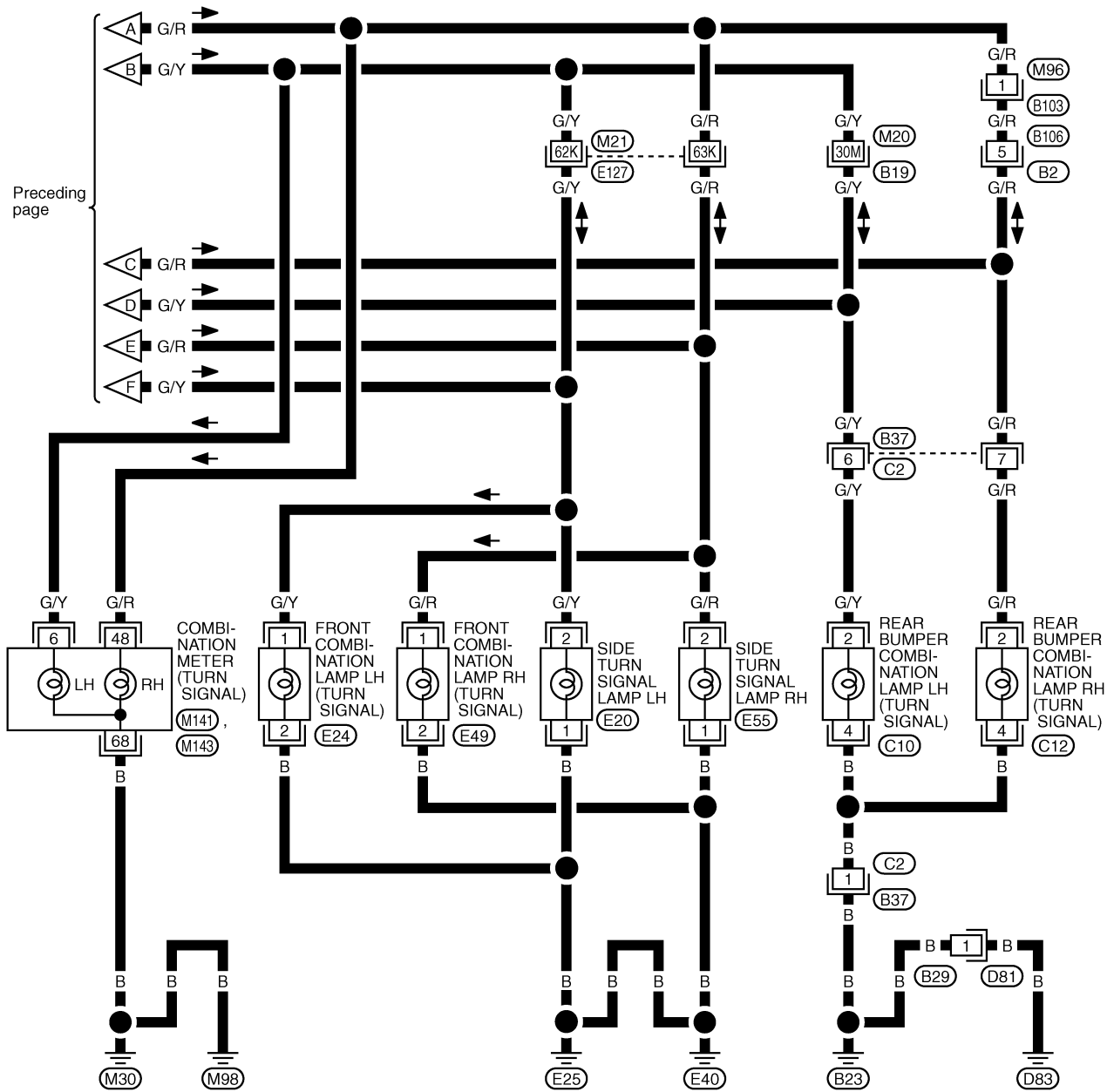
Refer to last page (Foldout page).

(M20), (B19)
(M21), (E127)
(M2)

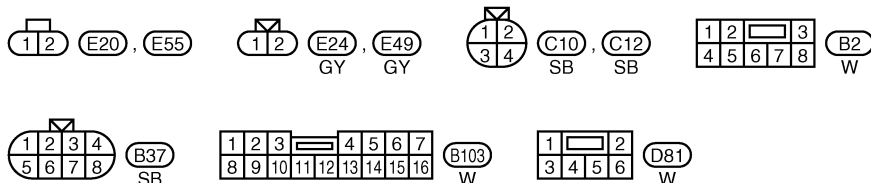
TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type B (Cont'd)

EL-TURN-07



1	2	3	4	5	6			7	8	9	10	11			M141	45	46	47	48	49	50			51	52	53	54	55			M143
12	13	14	15	16	17	18	19	20	21	22	23	24			W	56	57	58	59	60	61	62	63	64	65	66	67	68			BR








Refer to last page (Foldout page).

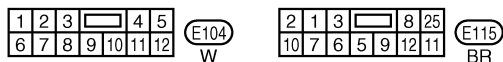
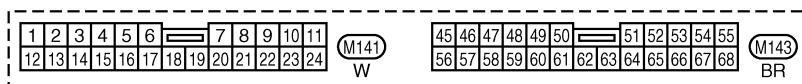
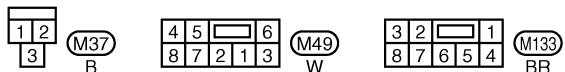
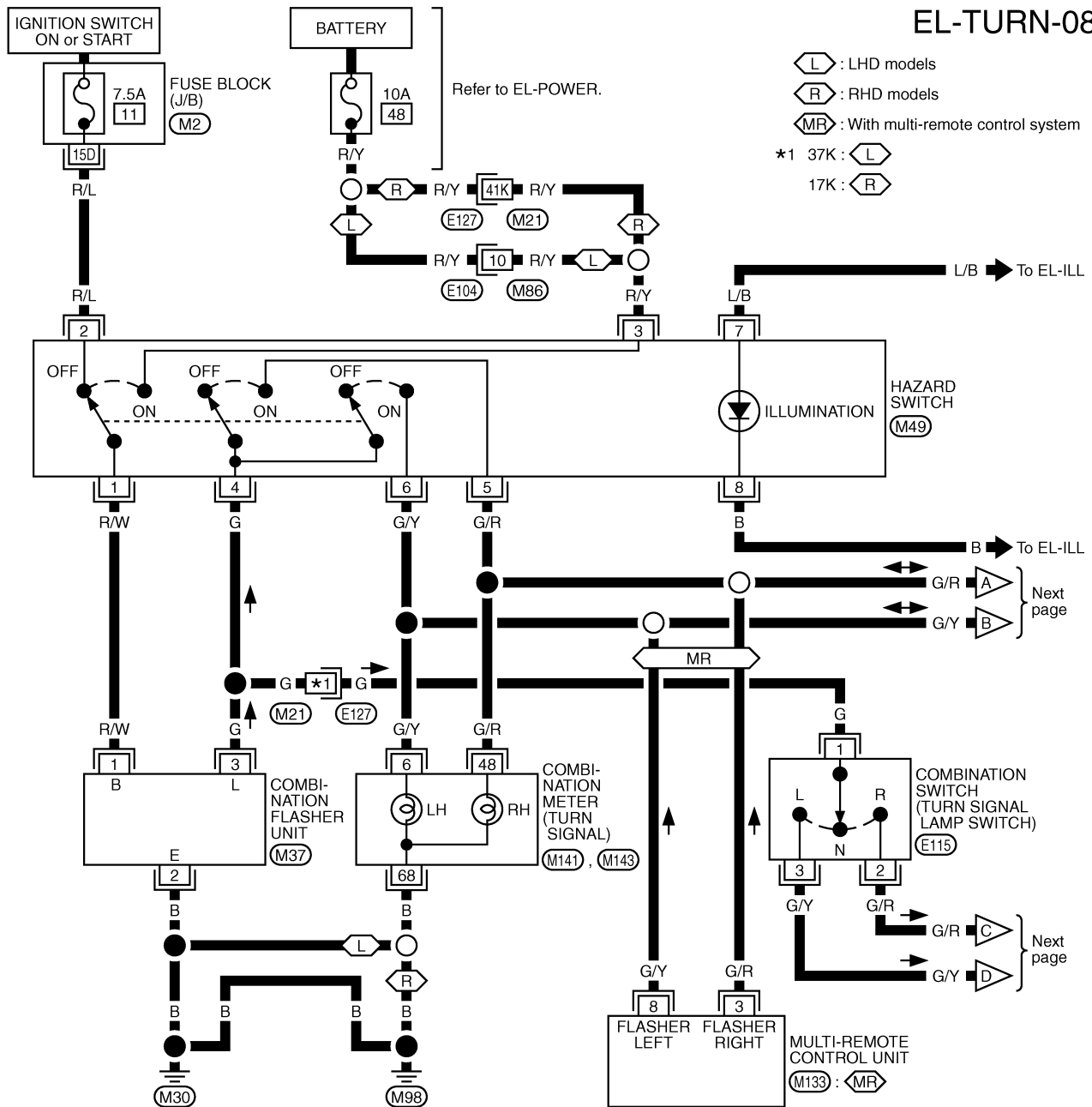
M20, B19
M21, E127

TEL005N

Wiring Diagram — TURN —/Type C

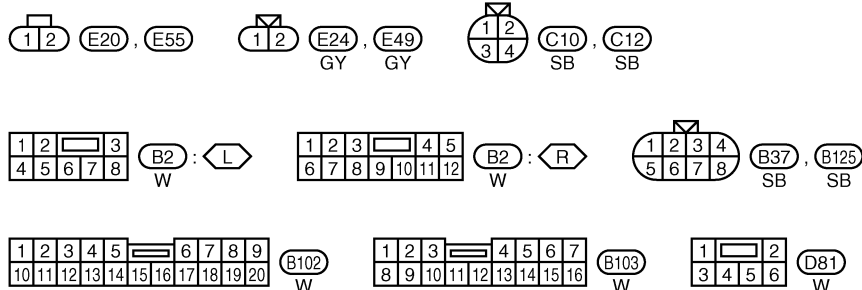
Rear combination lamps are located on rear bumper.

 : LHD models
 : RHD models
 : With multi-remote control system
 *1 37K: 
 17K: 



(M21), (E127)
(M2)

Wiring Diagram — TURN —/Type C (Cont'd)






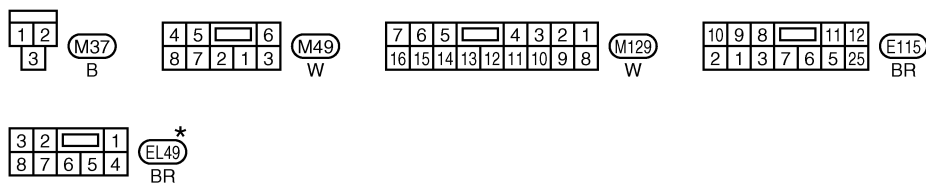
(M20), (B19)
(M21), (E127)

FOR AUSTRALIA AND SOUTH AFRICA
Rear combination lamps are located on rear bumper.

FOR AUSTRALIA AND SOUTH AFRICA
Rear combination lamps are located on rear bumper.

FOR AUSTRALIA AND SOUTH AFRICA
Rear combination lamps are located on rear bumper.

 : For Australia
 : For South Africa
 : With multi-remote control system



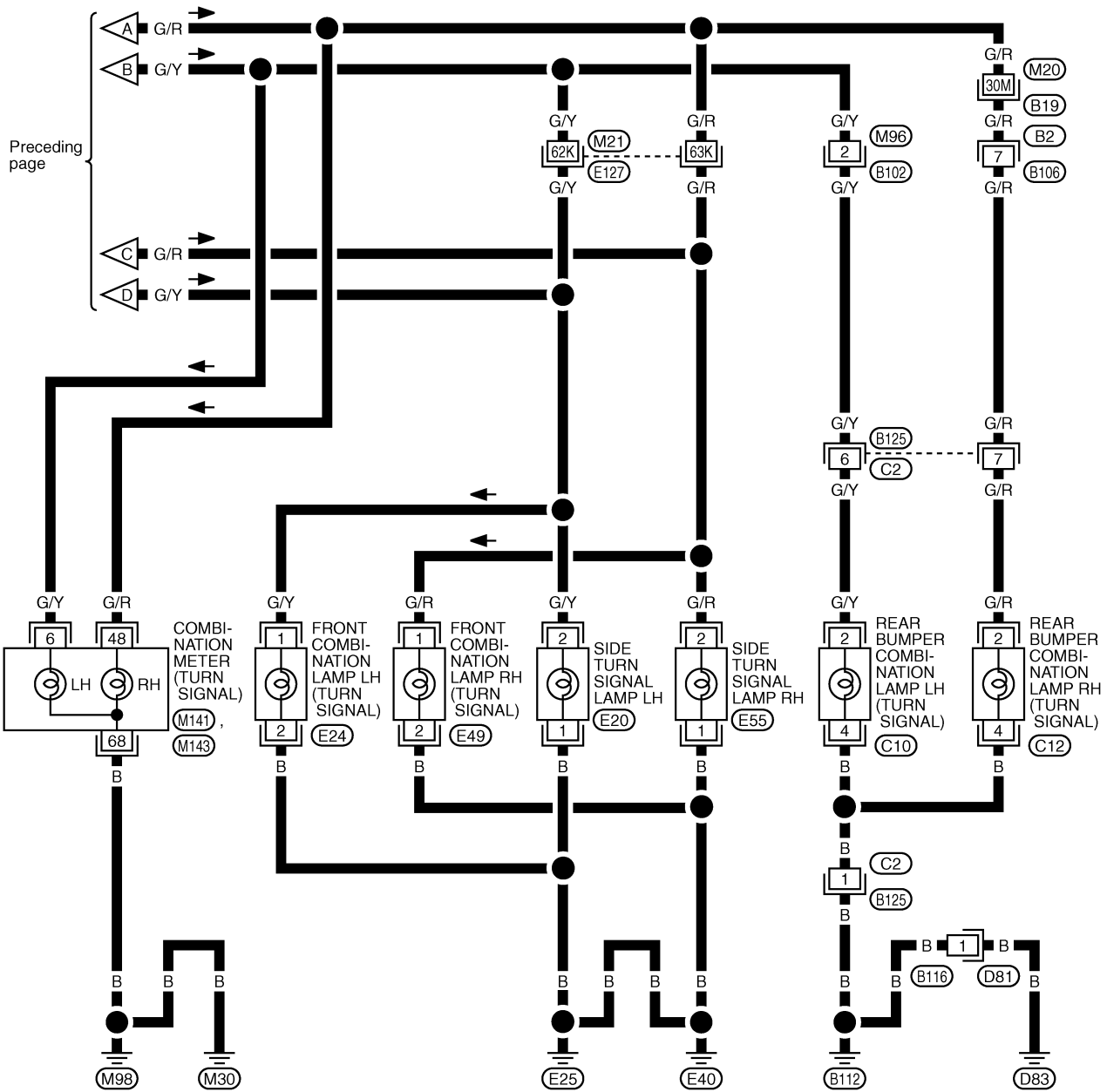
M21, E127
M2

TEL008N

TURN SIGNAL AND HAZARD WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — TURN —/Type D (Cont'd)

EL-TURN-11



1 2 3 4 5 6 7 8 9 10 11	M141	45 46 47 48 49 50 51 52 53 54 55	M143
12 13 14 15 16 17 18 19 20 21 22 23 24	W	56 57 58 59 60 61 62 63 64 65 66 67 68	BR

1 2 E20, E55	1 2 E24, E49	1 2 C10, C12	1 2 3 4 5 B2
	GY GY	SB SB	W

1 2 3 4 5 6 7 8 9 B102	1 2 3 4 B125	1 2 D81
10 11 12 13 14 15 16 17 18 19 20 W	5 6 7 8 SB	3 4 5 6 W

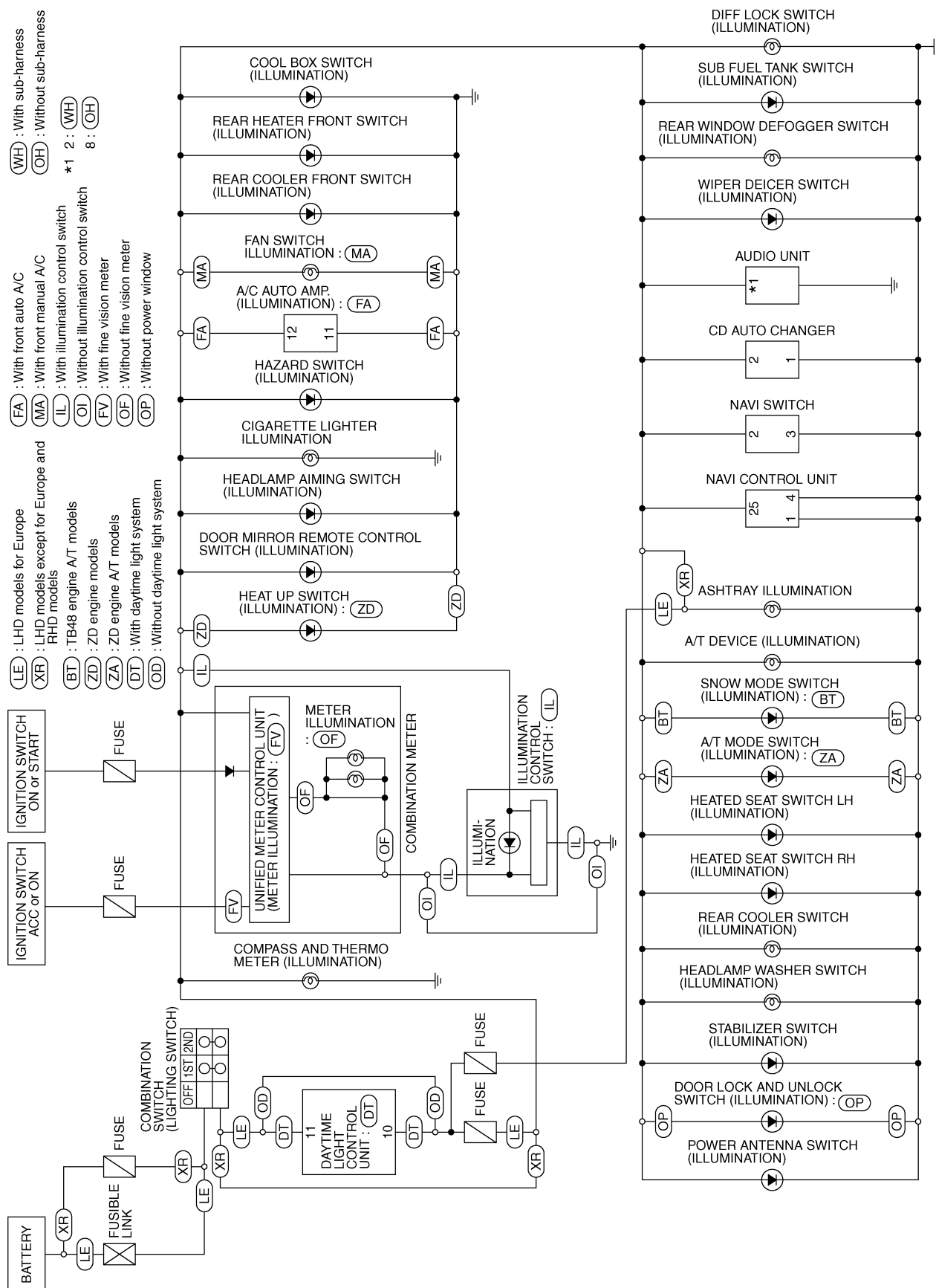
Refer to last page (Foldout page).

M20, B19
M21, E127

TEL009N

ILLUMINATION/WAGON AND HARDTOP MODELS

Schematic

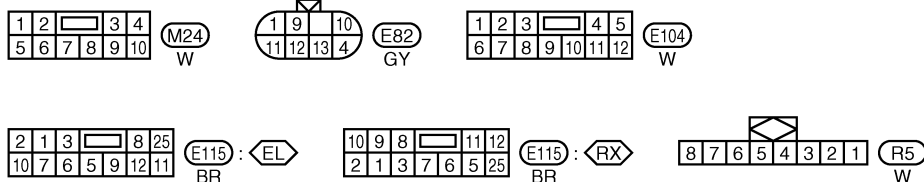
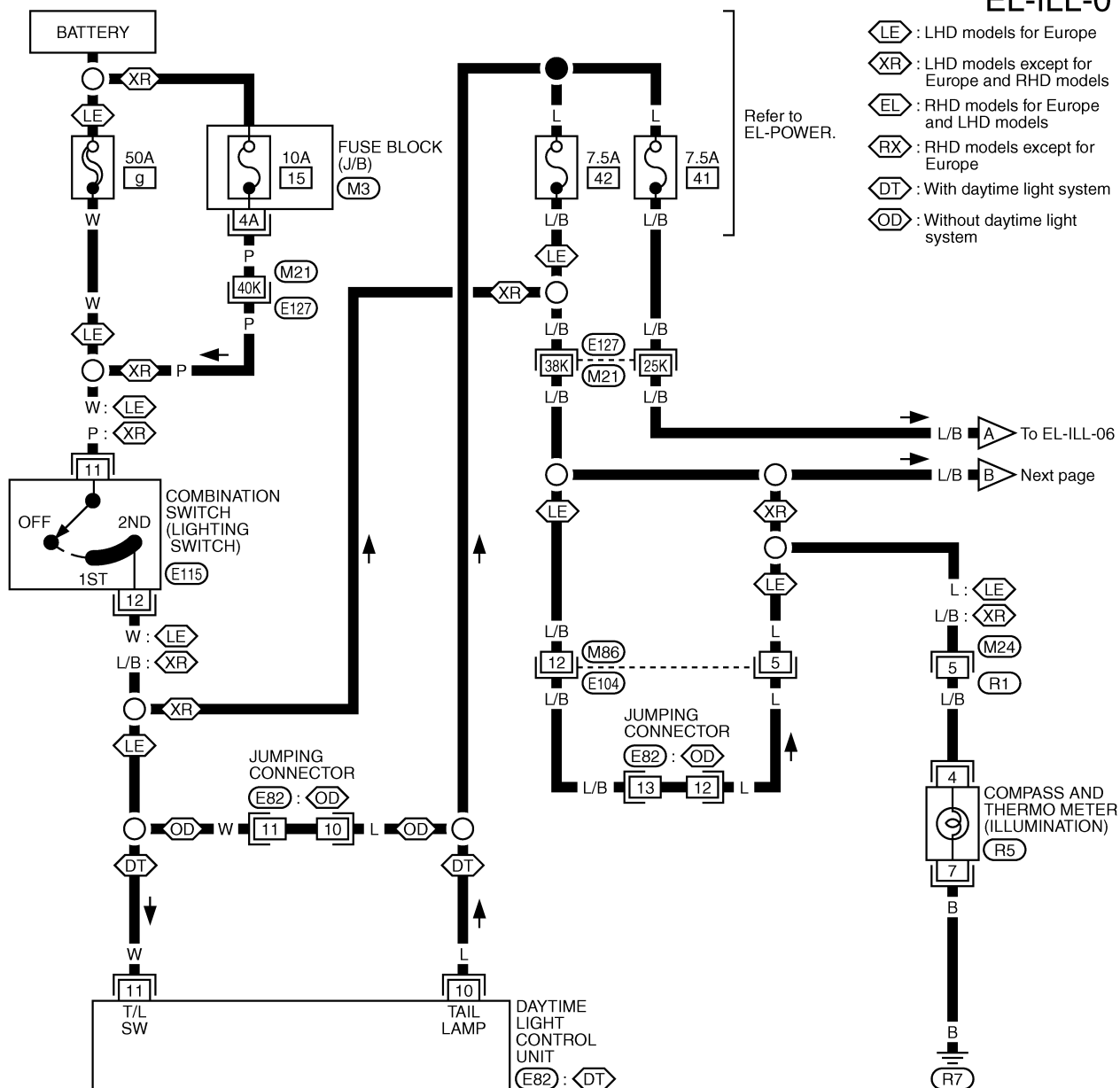


TEL010N

ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL —

EL-ILL-01



Refer to last page (Foldout page).

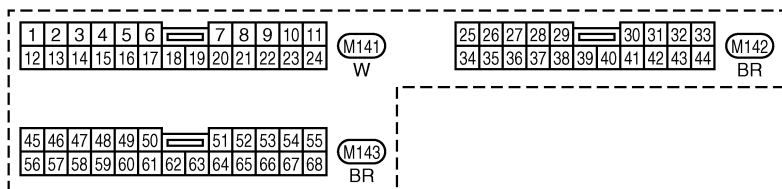
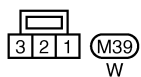
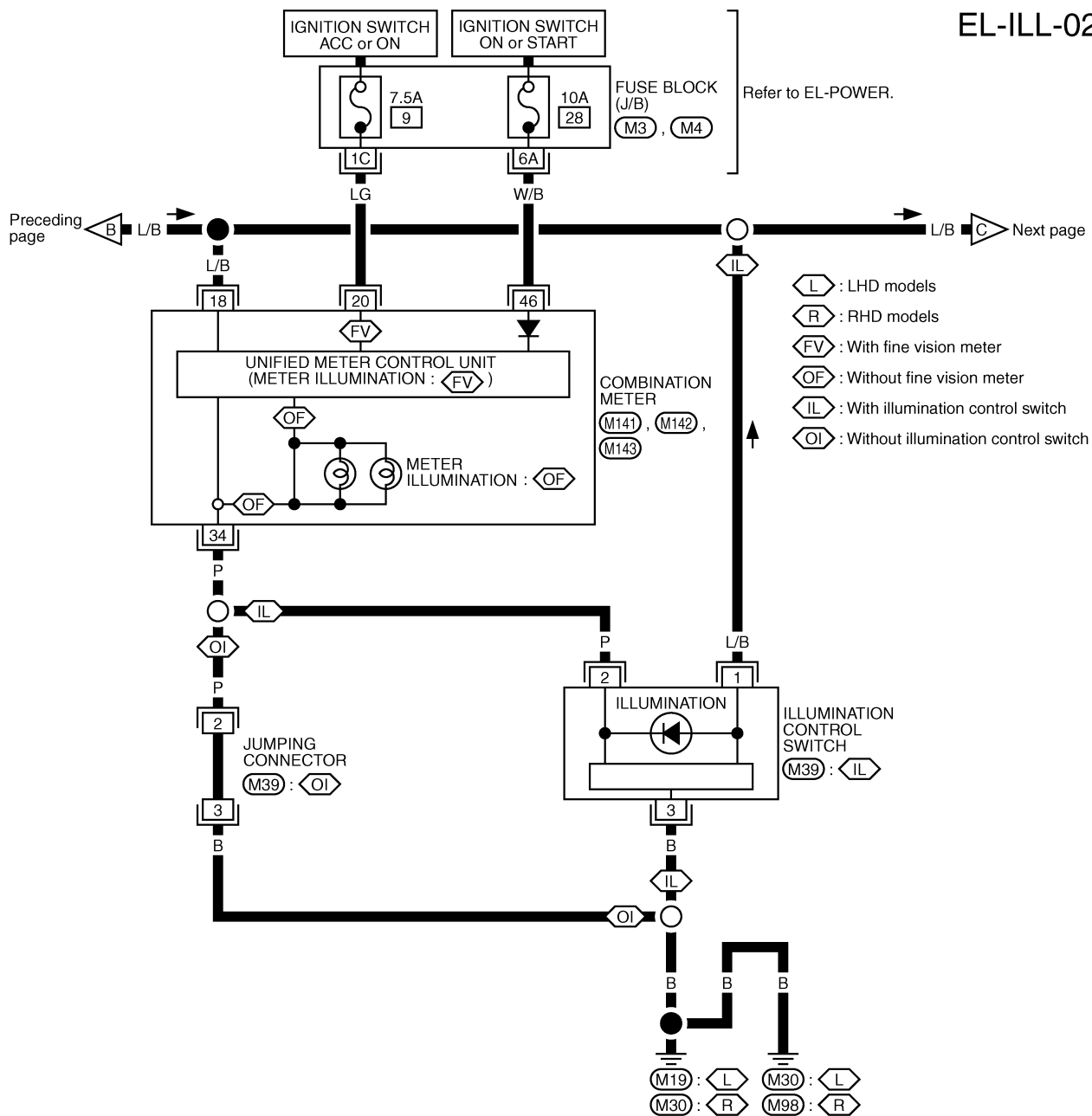
M21, E127
M3

TEL011N

EL-4080

Wiring Diagram — ILL — (Cont'd)

EL-ILL-02



Refer to last page (Foldout page).





M3

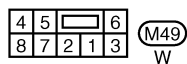
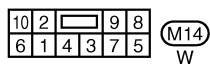
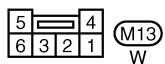
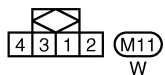
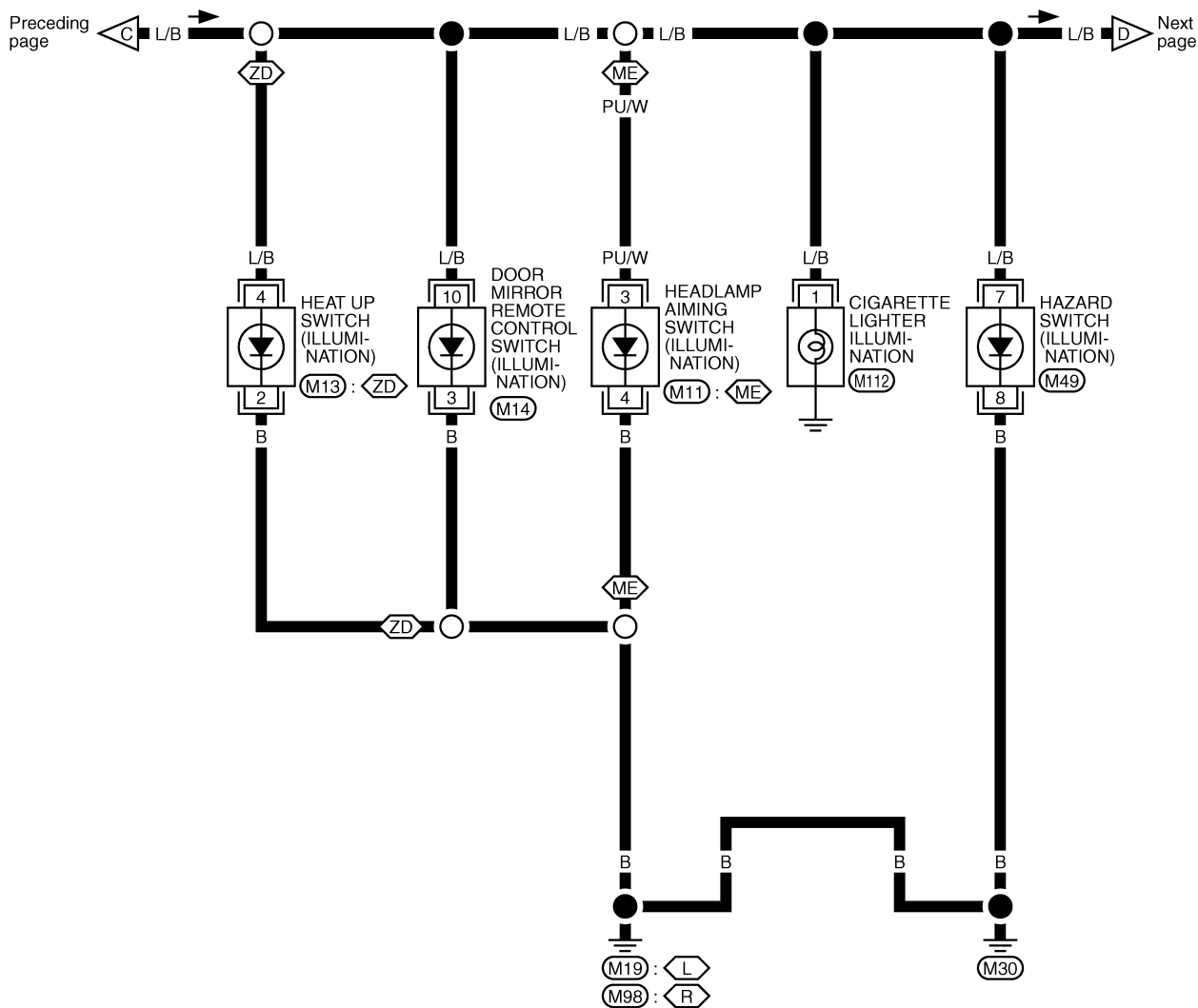
M4

ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL — (Cont'd)

EL-ILL-03

-  : LHD models
-  : RHD models
-  : For the Middle East
-  : ZD engine models



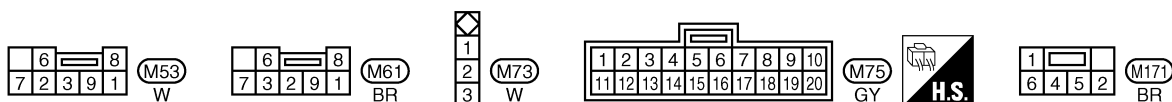
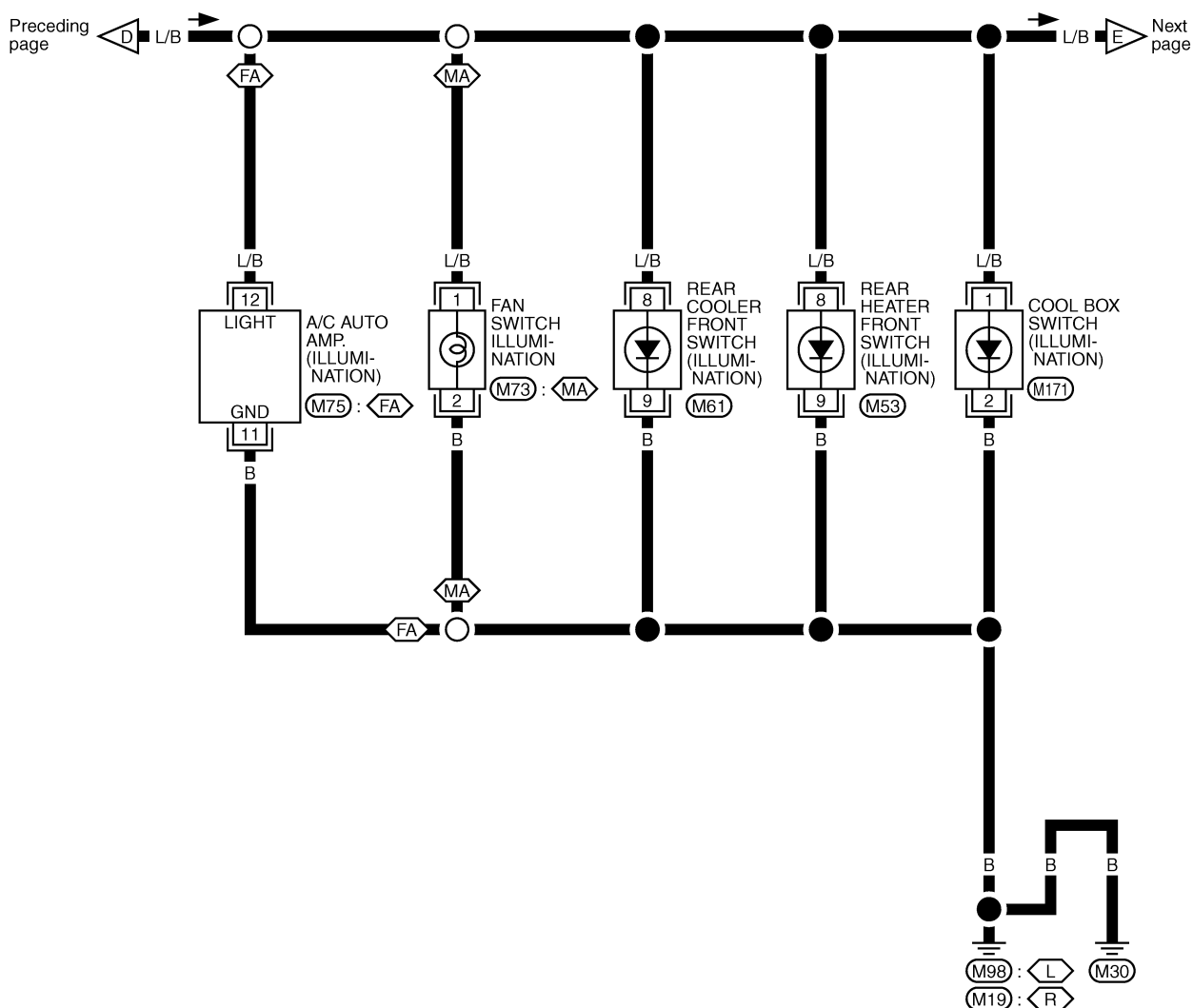
TEL013N

ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL — (Cont'd)

EL-ILL-04

- (L) : LHD models
- (R) : RHD models
- (FA) : With front auto A/C
- (MA) : With front manual A/C



TEL014N

ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL — (Cont'd)

EL-ILL-05

L : LHD models

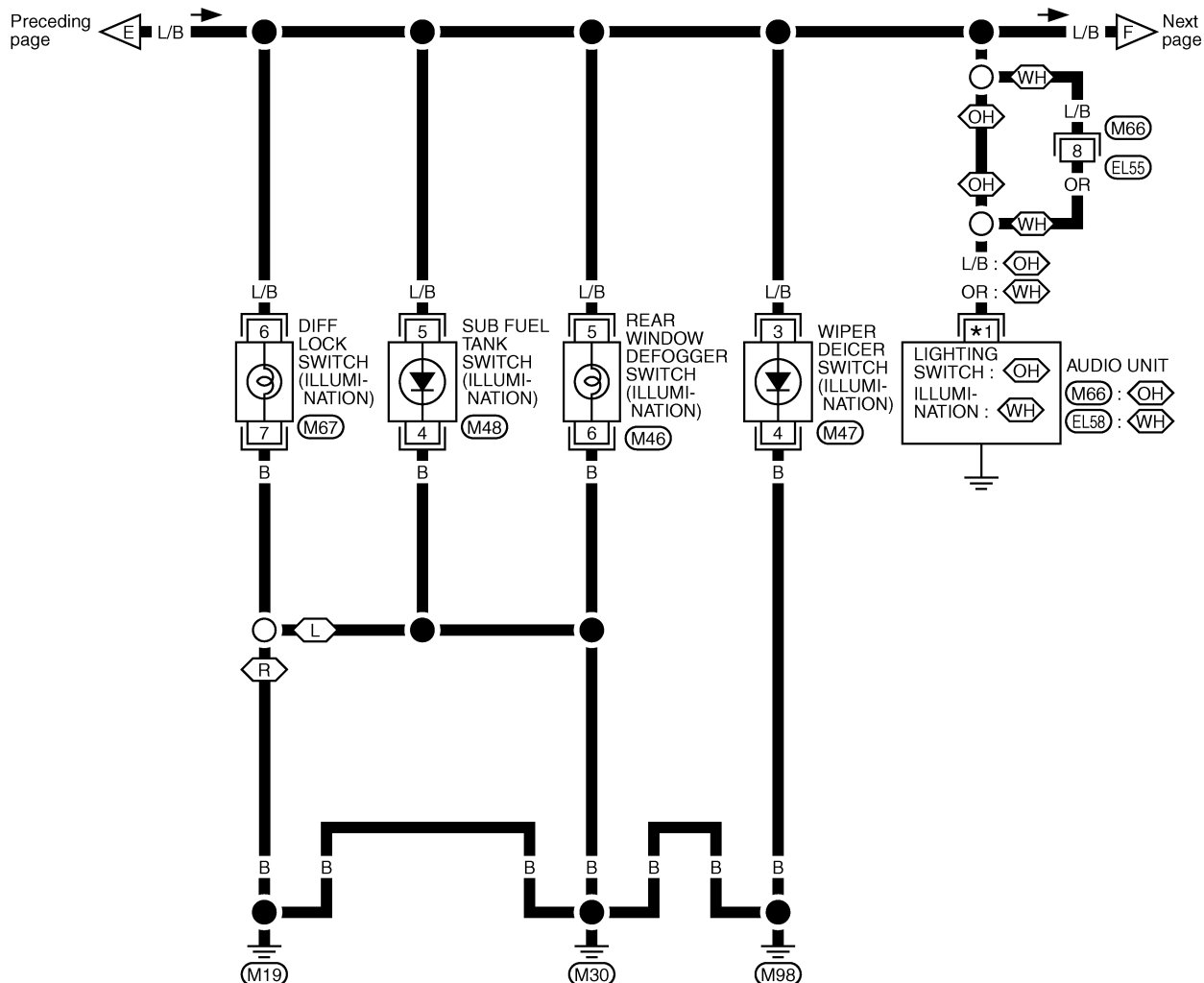
R : RHD models

WH : With sub-harness

OH : Without sub-harness

*1 2 : WH

8 : OH



2	6	1
4	3	5

M46
W

2	1
4	3
5	6

M47
W

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---

M48
GY

10	8	4	2
9	7	6	3

M66
W

5	7
1	2
6	3

M67
BR

16	14	12	8	6	4	2
15	13	11	10	9	7	5
3	1					

*
EL58
W

★: This connector is not shown in "HARNESS LAYOUT", EL section.

TEL015N


Wiring Diagram — ILL — (Cont'd)

EL-ILL-06


 : LHD models

 : RHD models


 : LHD models for Europe

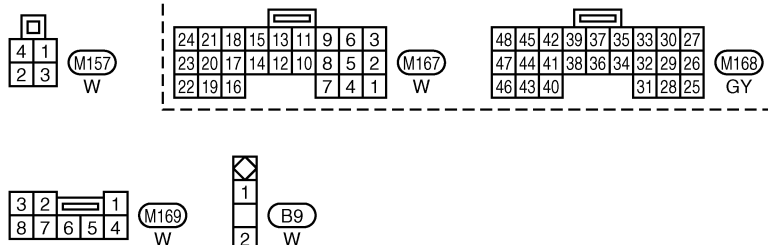
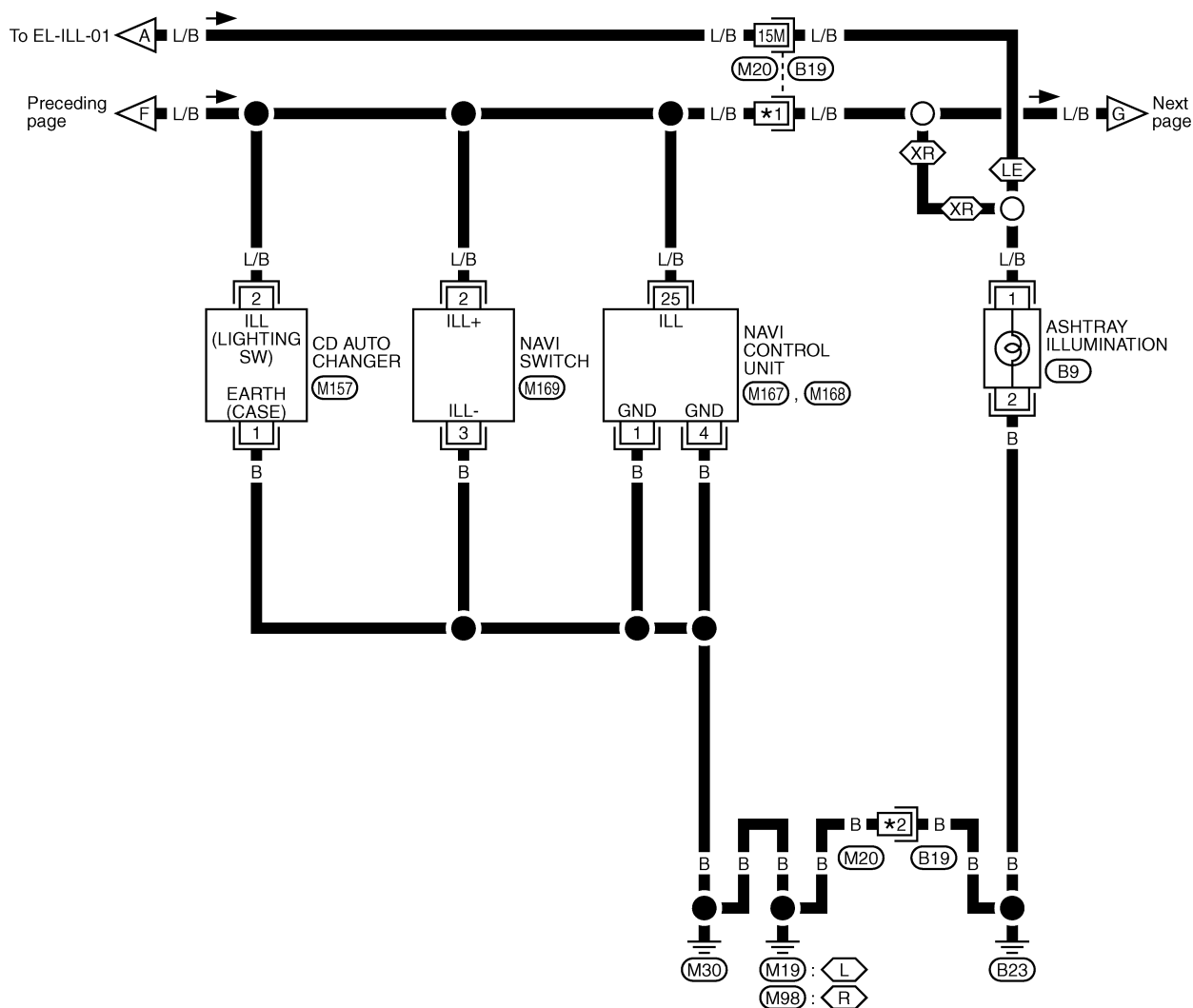
 : LHD models except for Europe and RHD models

*1 16M: 

6M : 

*2 47M:

46M : 



Refer to last page (Foldout page).

(M20), (B19)

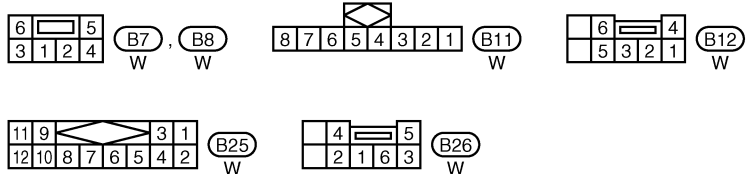
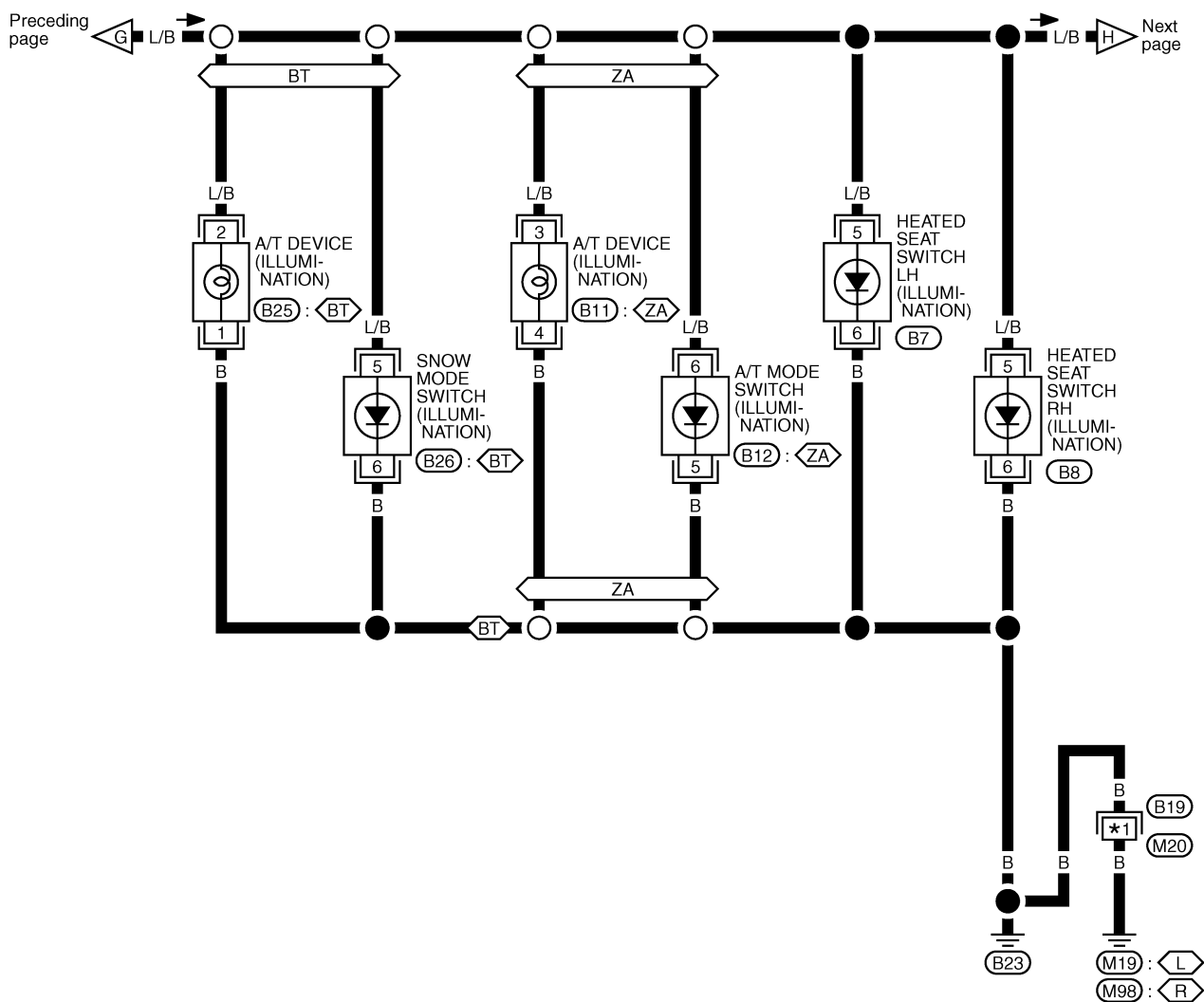
ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL — (Cont'd)

EL-ILL-07

- (L) : LHD models
- (R) : RHD models
- (BT) : TB48 engine A/T models
- (ZA) : ZD engine A/T models

- ★1 47M : (L)
- 46M : (R)



Refer to last page (Foldout page).
(M20) , (B19)

TEL017N

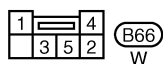
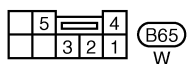
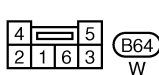
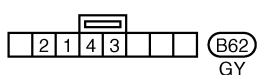
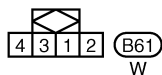
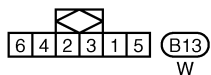
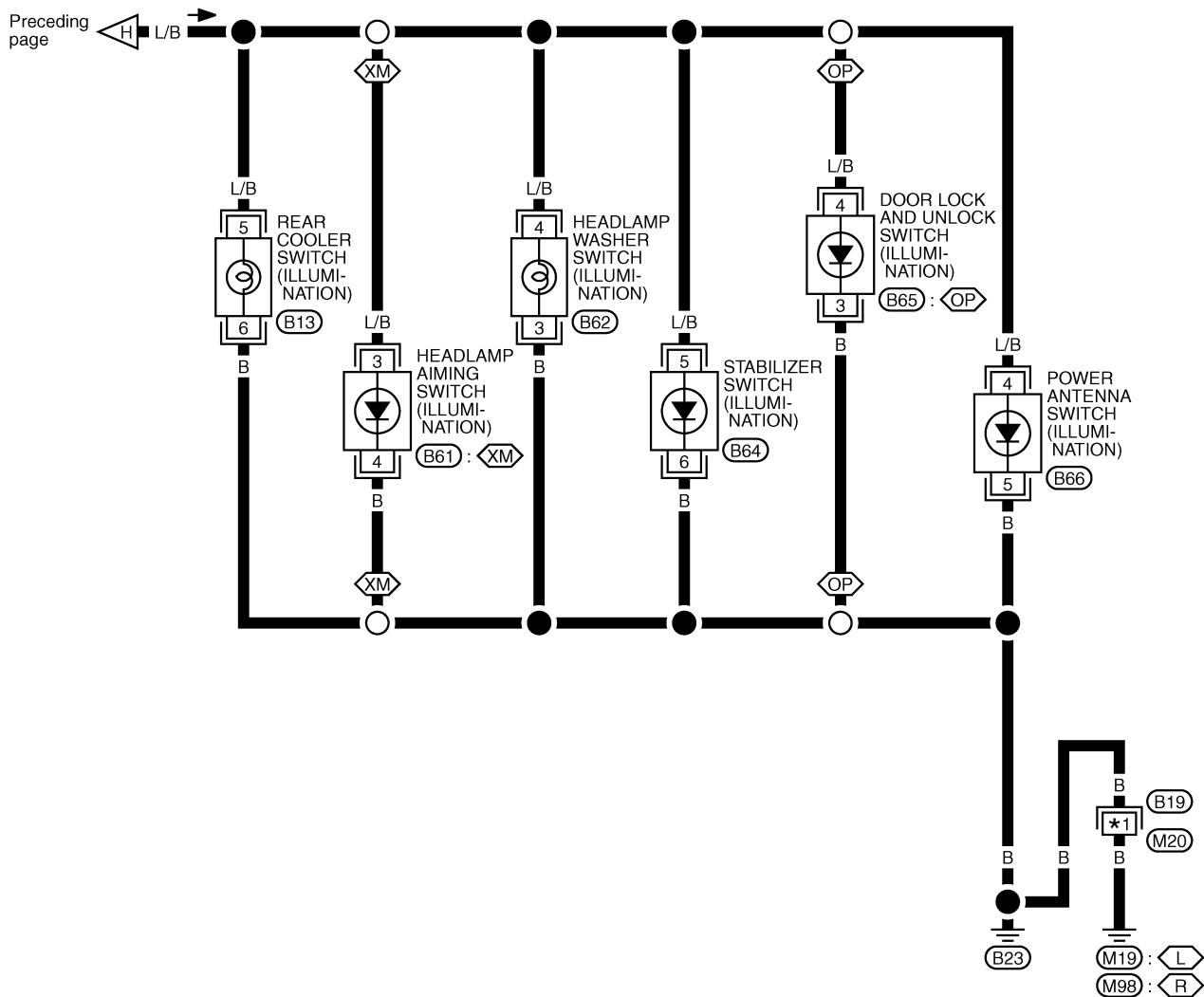
ILLUMINATION/WAGON AND HARDTOP MODELS

Wiring Diagram — ILL — (Cont'd)

EL-ILL-08

- (L) : LHD models
- (R) : RHD models
- (XM) : Except for the Middle East
- (OP) : Without power window

★1 47M : (L)
46M : (R)

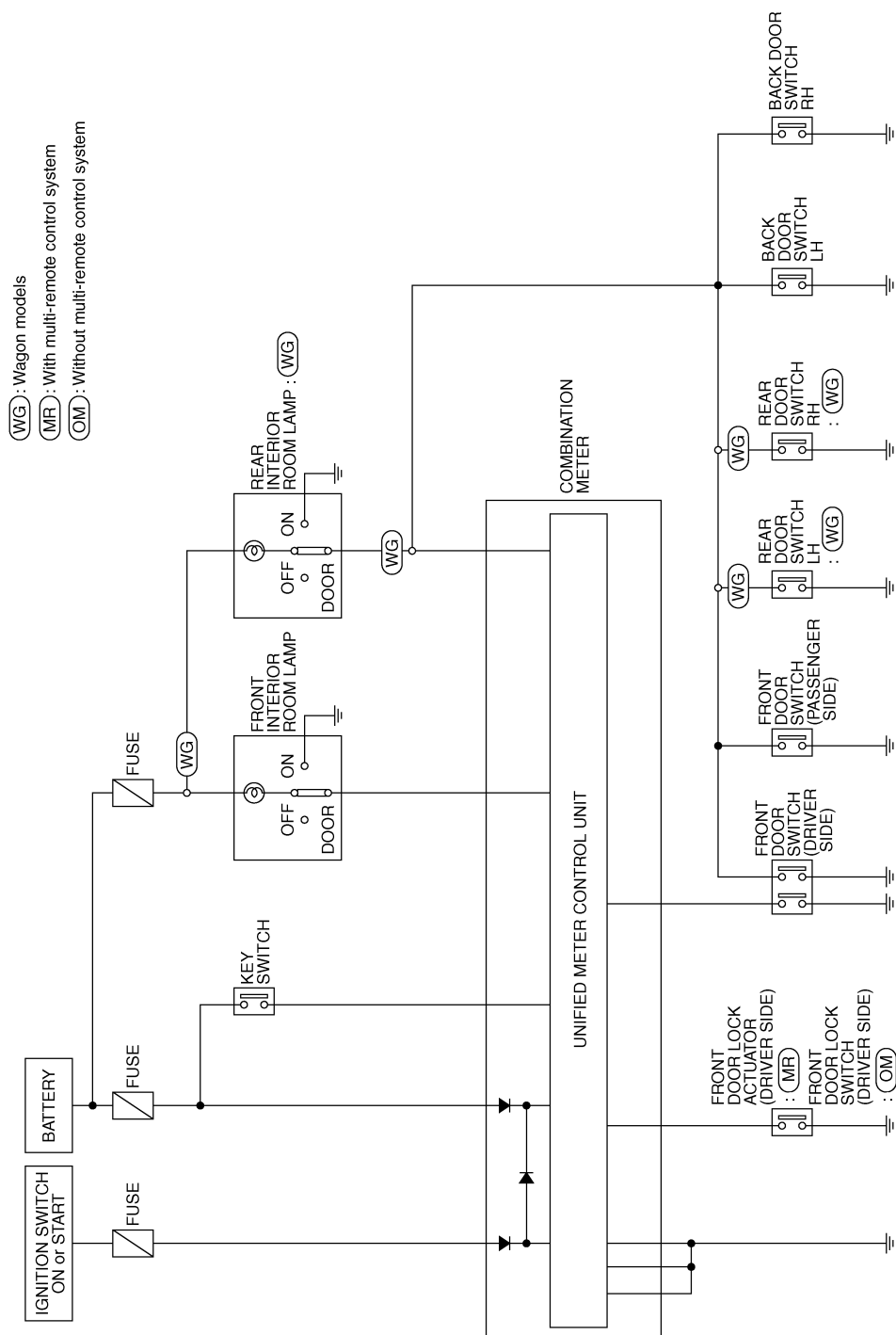


Refer to last page (Foldout page).

(M20) , (M19)

TEL018N

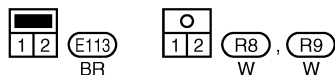
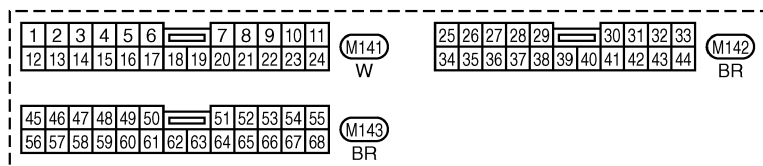
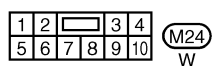
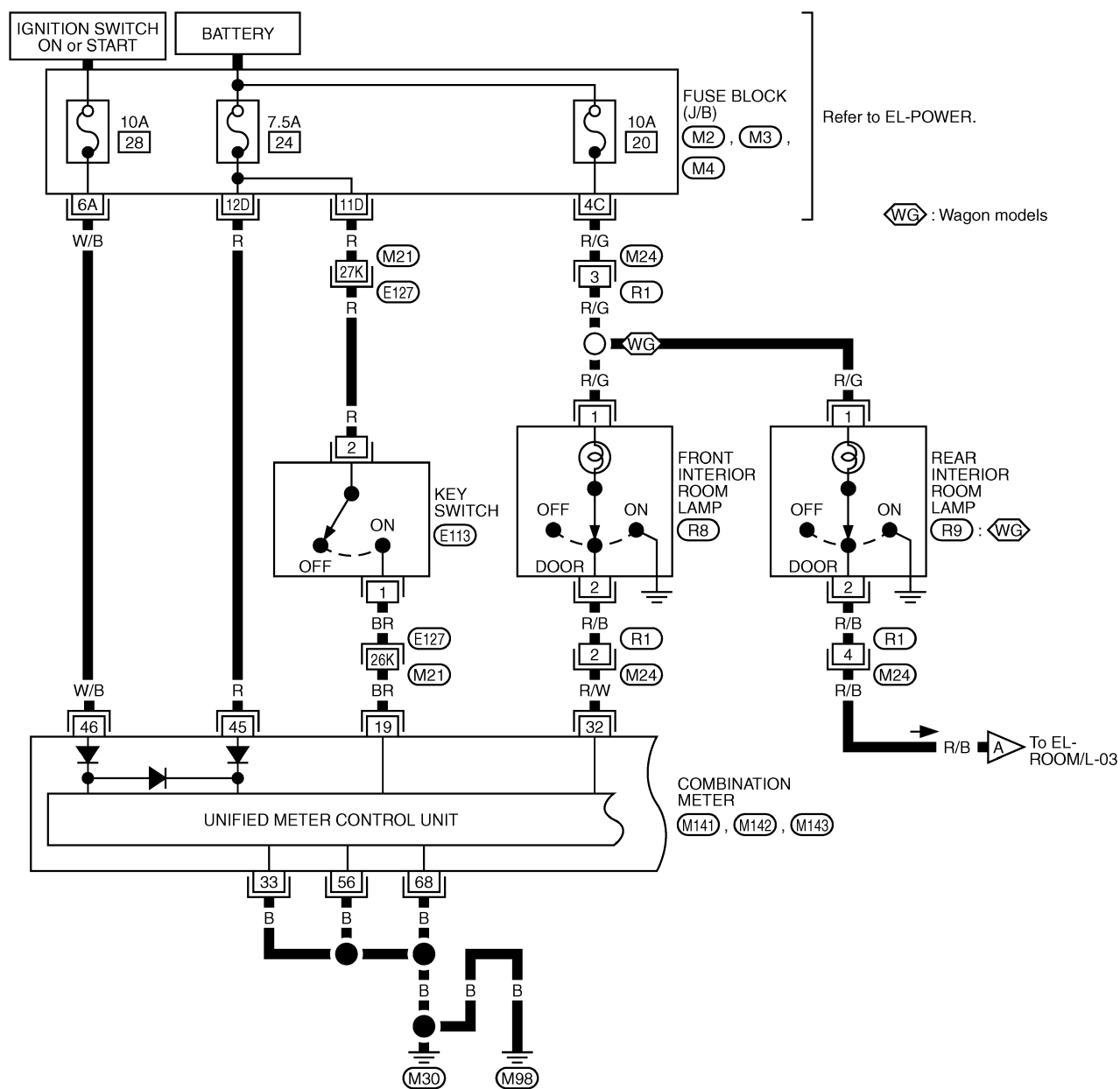
Schematic/LHD Models Except for China



INTERIOR ROOM LAMP/WAGON AND HARDTOP MODELS — With Timer —

Wiring Diagram — ROOM/L —/LHD Models Except for China

EL-ROOM/L-01



Refer to last page (Foldout page).

(M21), (E127)

M2

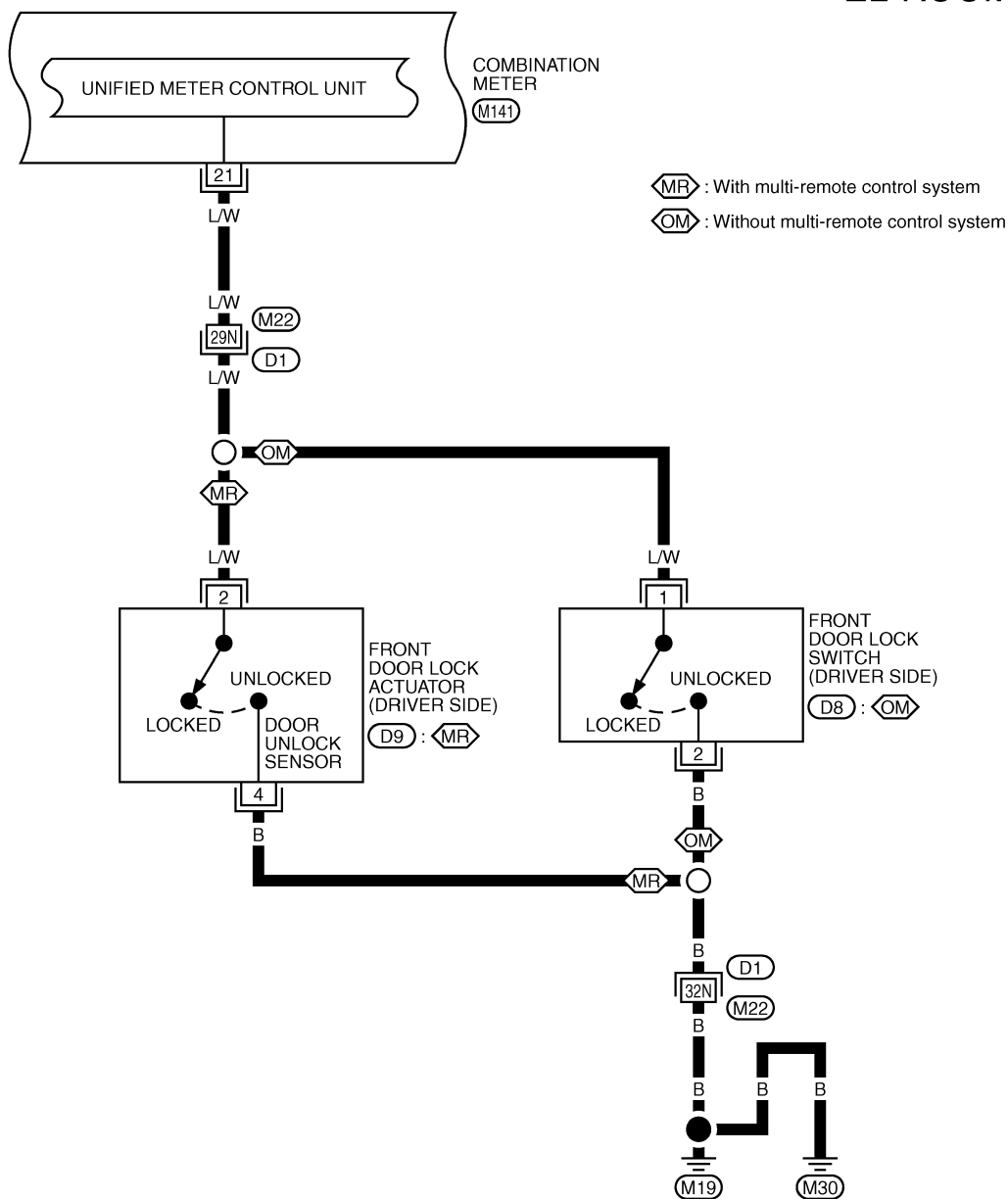
M3

M4

1

INTERIOR ROOM LAMP/WAGON AND HARDTOP MODELS — With Timer — Wiring Diagram — ROOM/L —/LHD Models Except for China (Cont'd)

EL-ROOM/L-02



1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

(M141)
W

(2 1)
D8

GY

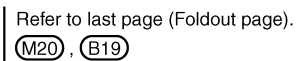
(3 4)
1 2

(D9)
GY

Refer to last page (Foldout page).
(M22), (D1)

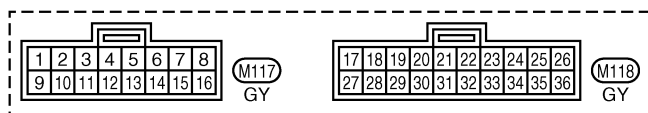
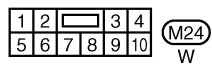
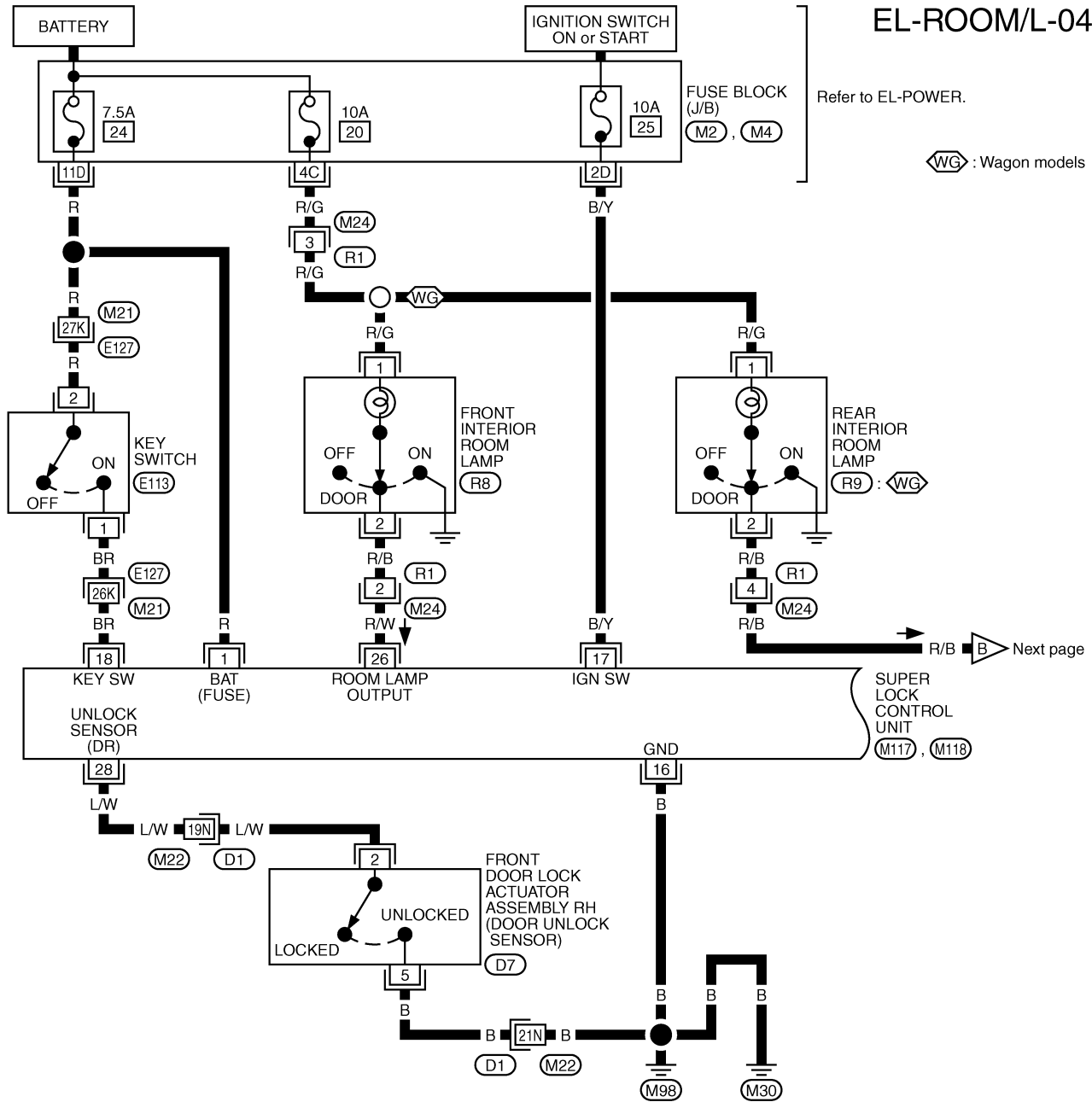
TEL413M

EL-ROOM/L-03



Wiring Diagram — ROOM/L —/RHD Models for Europe

EL-ROOM/L-04



Refer to last page (Foldout page).

M21, E127

M22, D1

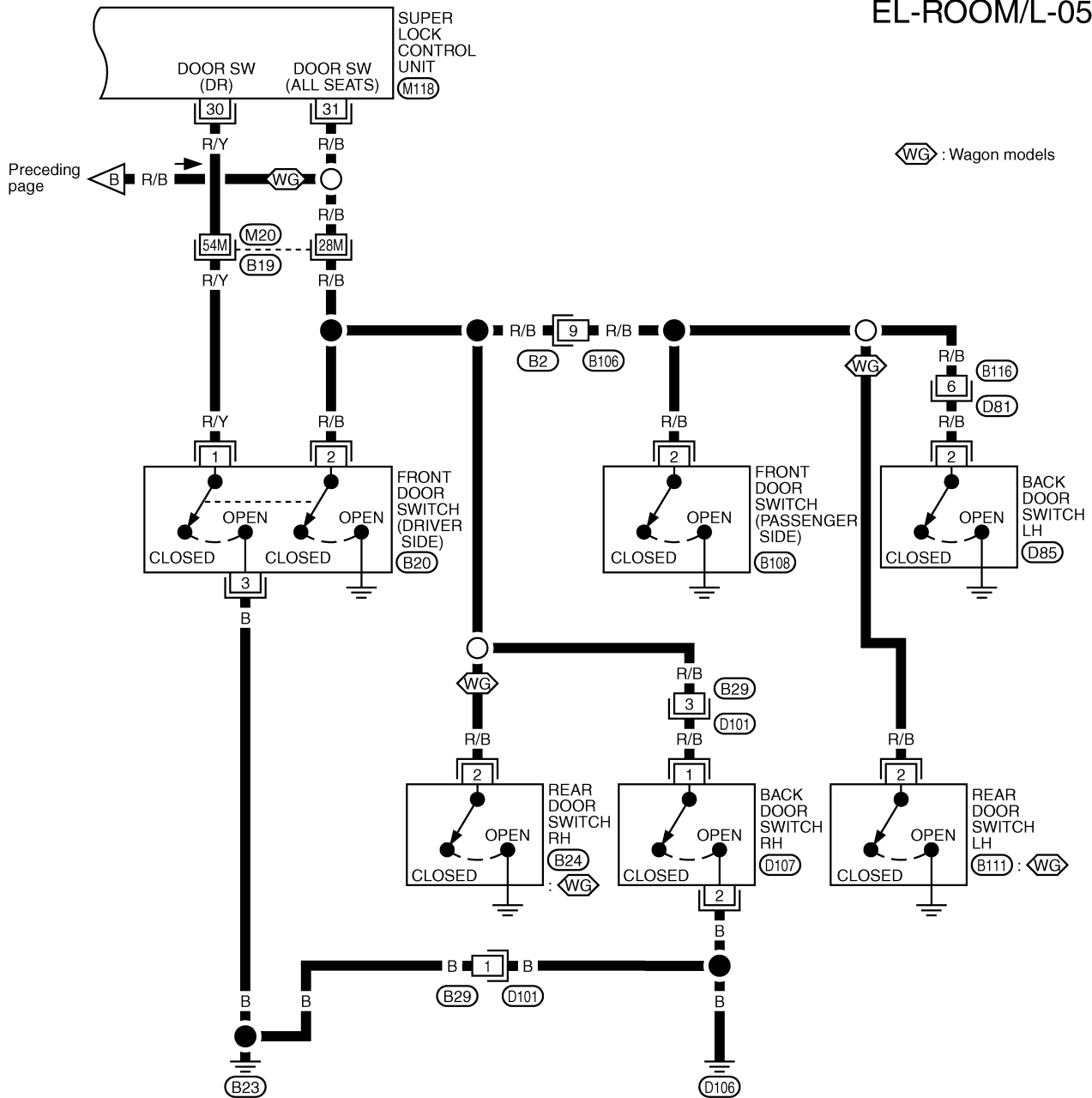
M2

M4



INTERIOR ROOM LAMP/WAGON AND HARDTOP MODELS — With Timer — Wiring Diagram — ROOM/L —/RHD Models for Europe (Cont'd)

EL-ROOM/L-05



17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36

(M118)
GY



1	2	3	4	5
6	7	8	9	10

(B2)
W

1	2
3	

(B20), (B24), (B108), (B111), (D85)
B B B B B

1	2
3	4

(D81), (D101)
W W

1
2

(D107)
W

Refer to last page (Foldout page).

(M20), (B19)

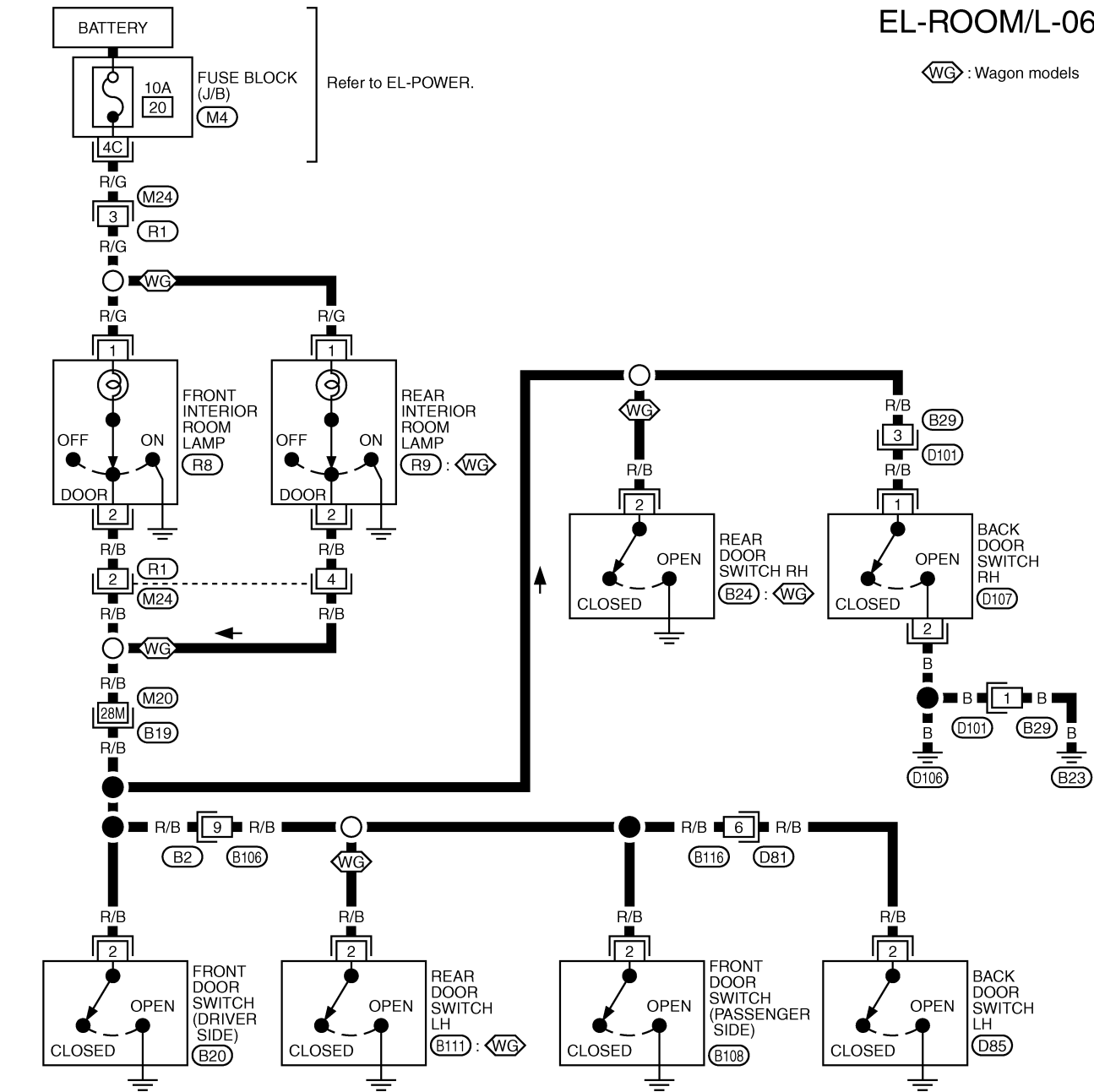
TEL020N

INTERIOR ROOM LAMP/WAGON AND HARDTOP MODELS — Without Timer —

Wiring Diagram — ROOM/L —/RHD Models

EL-ROOM/L-06

WG : Wagon models



1 2 3 4 5 6 7 8 9 10	M24 W	1 2 3 4 5 6 7 8 9 10 11 12	B2 W	1 2 3	B20, B24, B108, B111, D85 B
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1 2 3 4 5 6	R8, R9 W	1 2 3 4 5 6	D81, D101 W	1 2 3	D107 W
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Refer to last page (Foldout page).

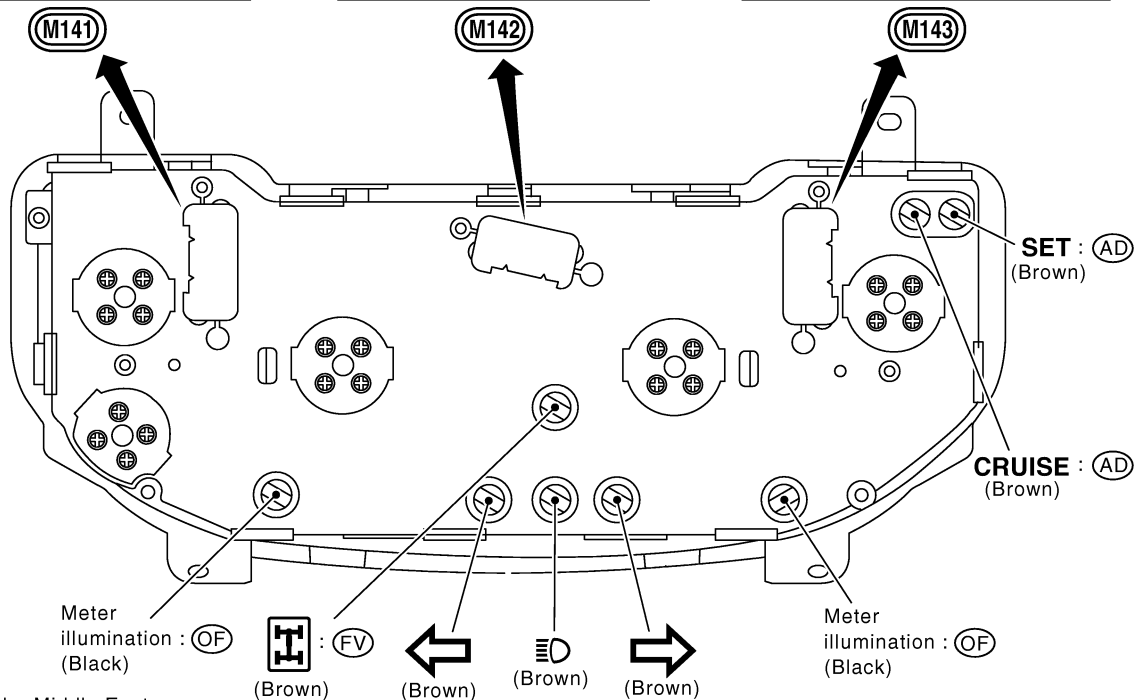
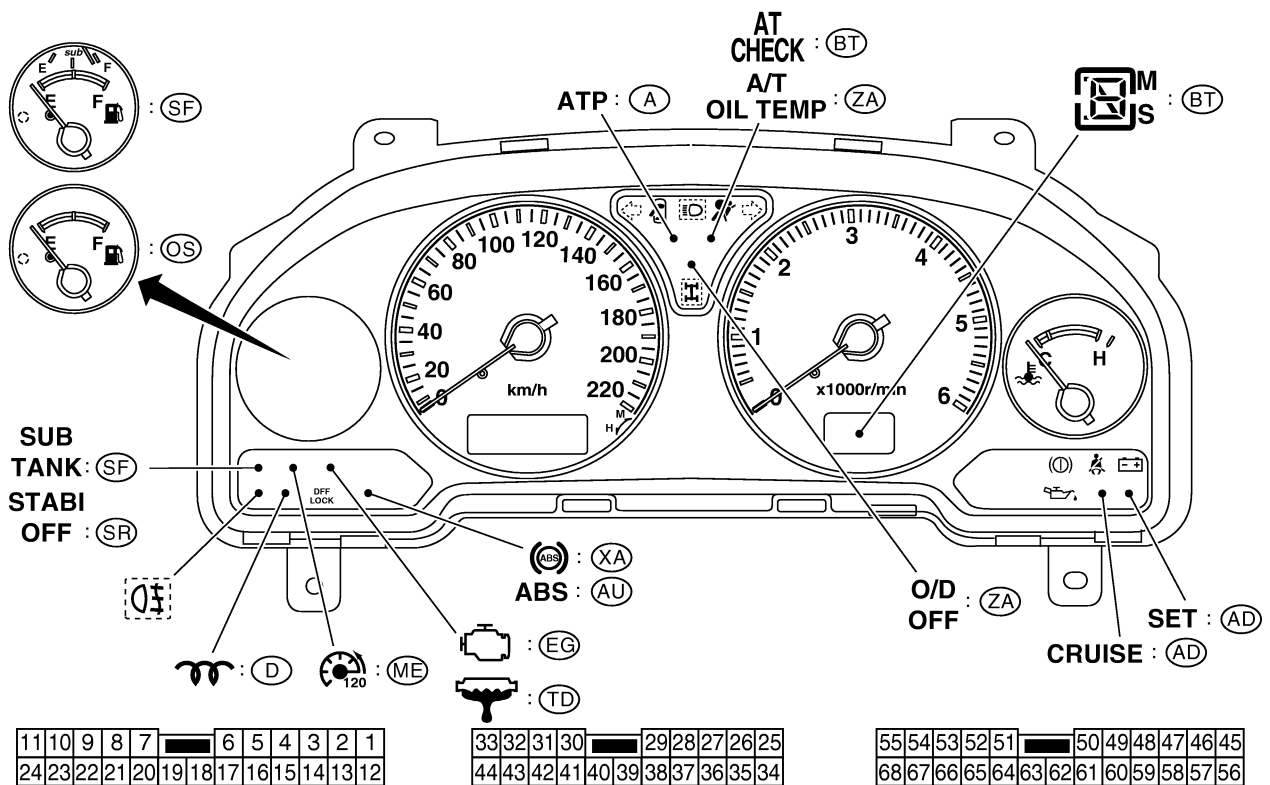
M20, B19

M4

TEL021N

METER AND GAUGES/WAGON AND HARDTOP MODELS

Combination Meter



- (ME) : For the Middle East
(AU) : For Australia
(A) : A/T models
(BT) : TB48 engine A/T models
(ZA) : ZD engine A/T models
(SF) : With sub fuel tank
(OS) : Without sub fuel tank
(SR) : With stabilizer release device
(XA) : Except for Australia
(D) : Diesel engine models
(EG) : ECM control engine models
(TD) : TD engine models
(AD) : With ASCD
(FV) : With fine vision meter
(OF) : Without fine vision meter

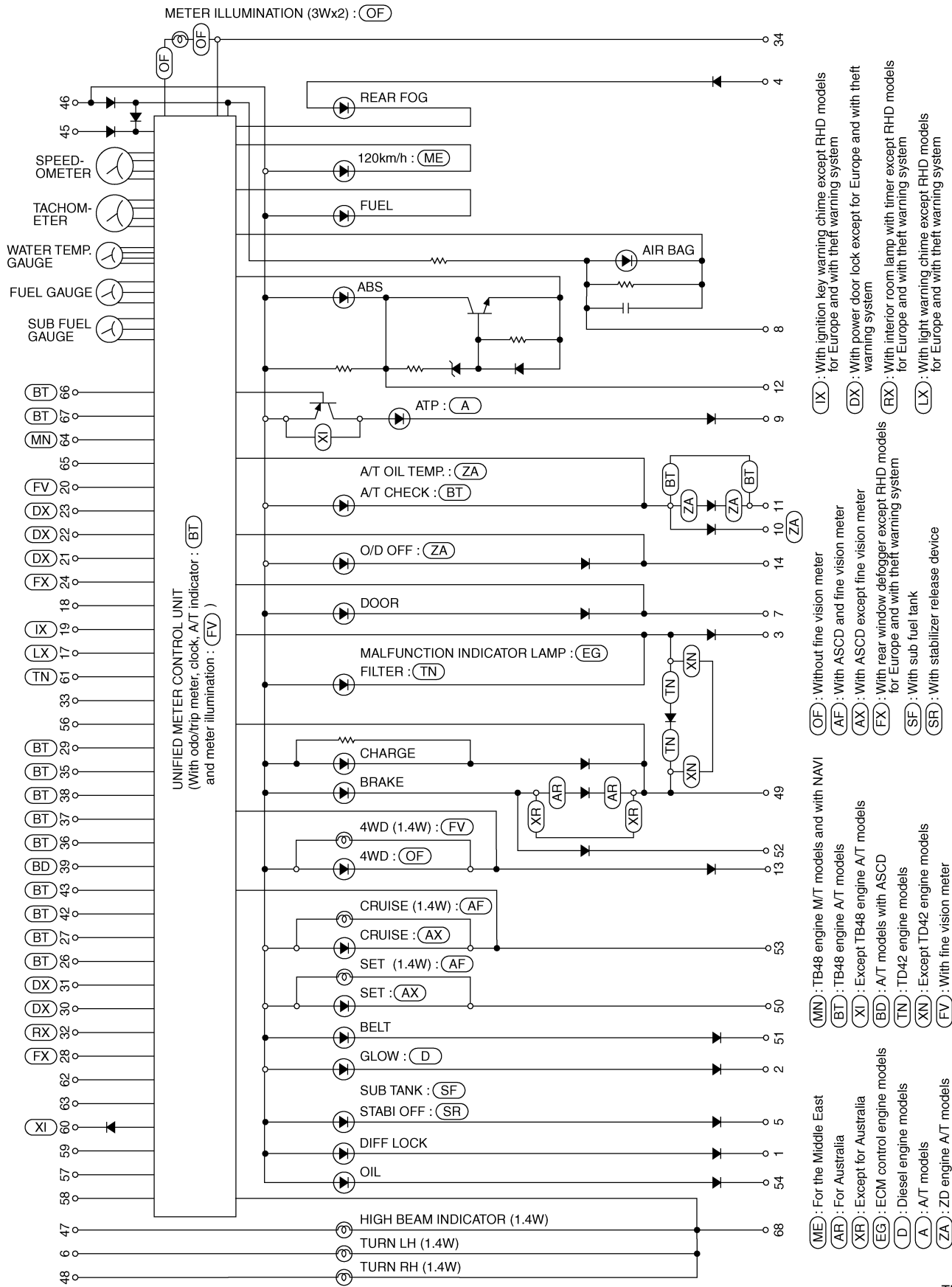
Bulb socket color	Bulb wattage
Brown	1.4W
Black	3.0W

() : Warning bulb socket color

CEL587M

METER AND GAUGES/WAGON AND HARDTOP MODELS

Schematic



TEL022N

METER AND GAUGES/WAGON AND HARDTOP MODELS

Wiring Diagram — METER —

EL-METER-01

(L) : LHD models

(R) : RHD models

(BE) : TB48 engine models

(ZT) : ZD and TB45E engine models

(TE) : TB45E engine models

(TN) : TD42 engine models

(DU) : TD42Ti engine models

(ZD) : ZD engine models

(TZ) : TB and ZD engine models

(XI) : Except TB48 engine A/T models

(FV) : With fine vision meter

*1 38: (BE)

7: (TE)

5: (DU)

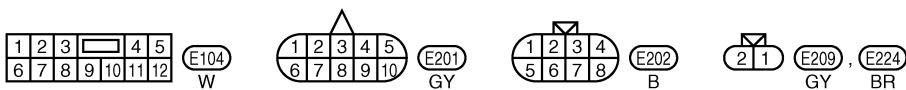
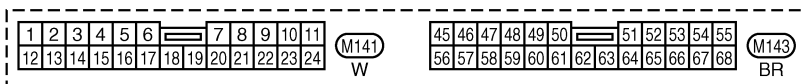
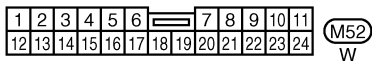
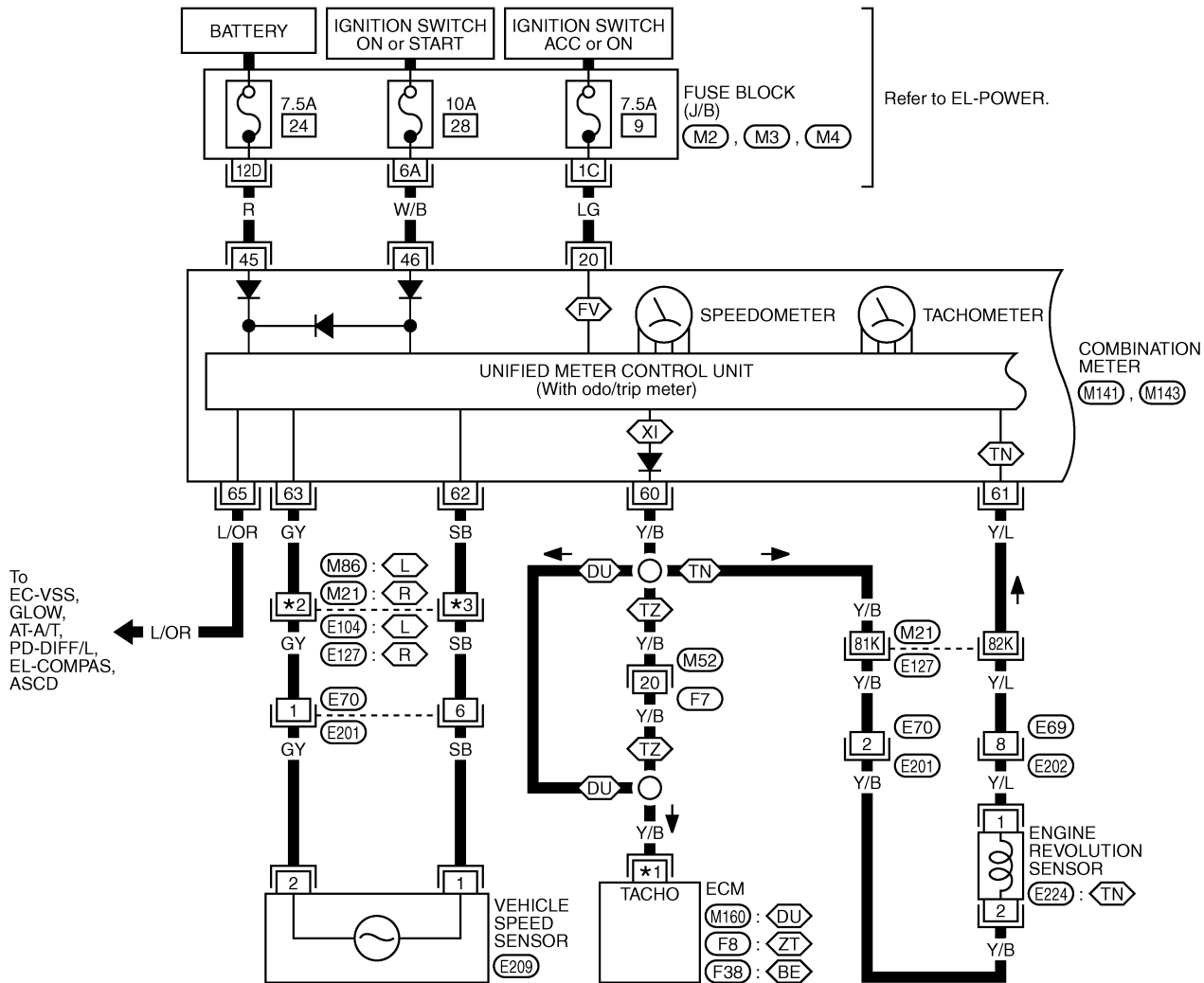
5: (ZD)

*2 2: (L)

55K: (R)

*3 3: (L)

67K: (R)



Refer to last page (Foldout page).

M21, E127

M2

M3

M4

M160

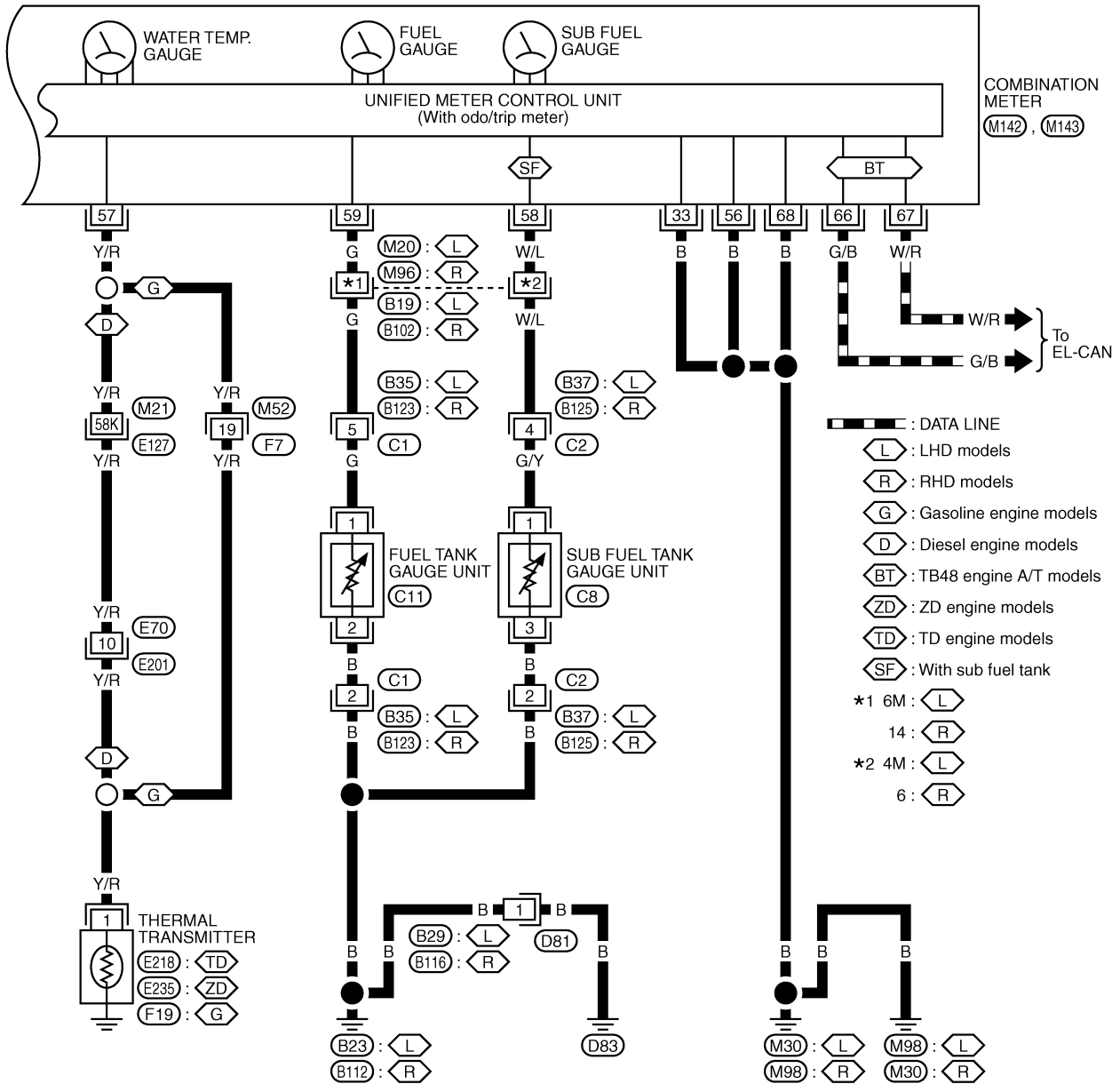
F8

F38

METER AND GAUGES/WAGON AND HARDTOP MODELS

Wiring Diagram — METER — (Cont'd)

EL-METER-02



1	2	3	4	5	6	7	8	9	10	11	M52
12	13	14	15	16	17	18	19	20	21	22	W

25	26	27	28	29	30	31	32	33	M142	45	46	47	48	49	50	51	52	53	54	55	M143
34	35	36	37	38	39	40	41	42	BR	56	57	58	59	60	61	62	63	64	65	66	BR

1	2	3	4	5	E201
6	7	8	9	10	GY

<div><div>1</div></div>	<div><div>E218</div><div>B</div></div>	<div><div>F19</div><div>B</div></div>	<div><div><div><div></div><div></div><div></div></div><div>1</div></div><div><div>E235</div><div>B</div></div></div>	<div><div><div>1</div><div>2</div><div>3</div></div><div><div>C8</div><div>GY</div></div></div>	<div><div><div><div>1</div><div>3</div><div>5</div></div><div><div>2</div><div>4</div><div>6</div></div></div><div><div>C11</div><div>SB</div></div></div>	<div><div><div><div>1</div><div>2</div><div>3</div></div><div><div>4</div><div>5</div><div>6</div></div></div><div><div><div>B35</div><div>B</div></div><div><div>B123</div><div>B</div></div></div></div>	<div><div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div>5</div><div>6</div><div>7</div><div>8</div></div></div><div><div><div>B37</div><div>SB</div></div><div><div>B125</div><div>SB</div></div></div></div>
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1	2	3	4	5	6	7	8	9	B102	1	2	D81
10	11	12	13	14	15	16	17	18	W	3	4	W

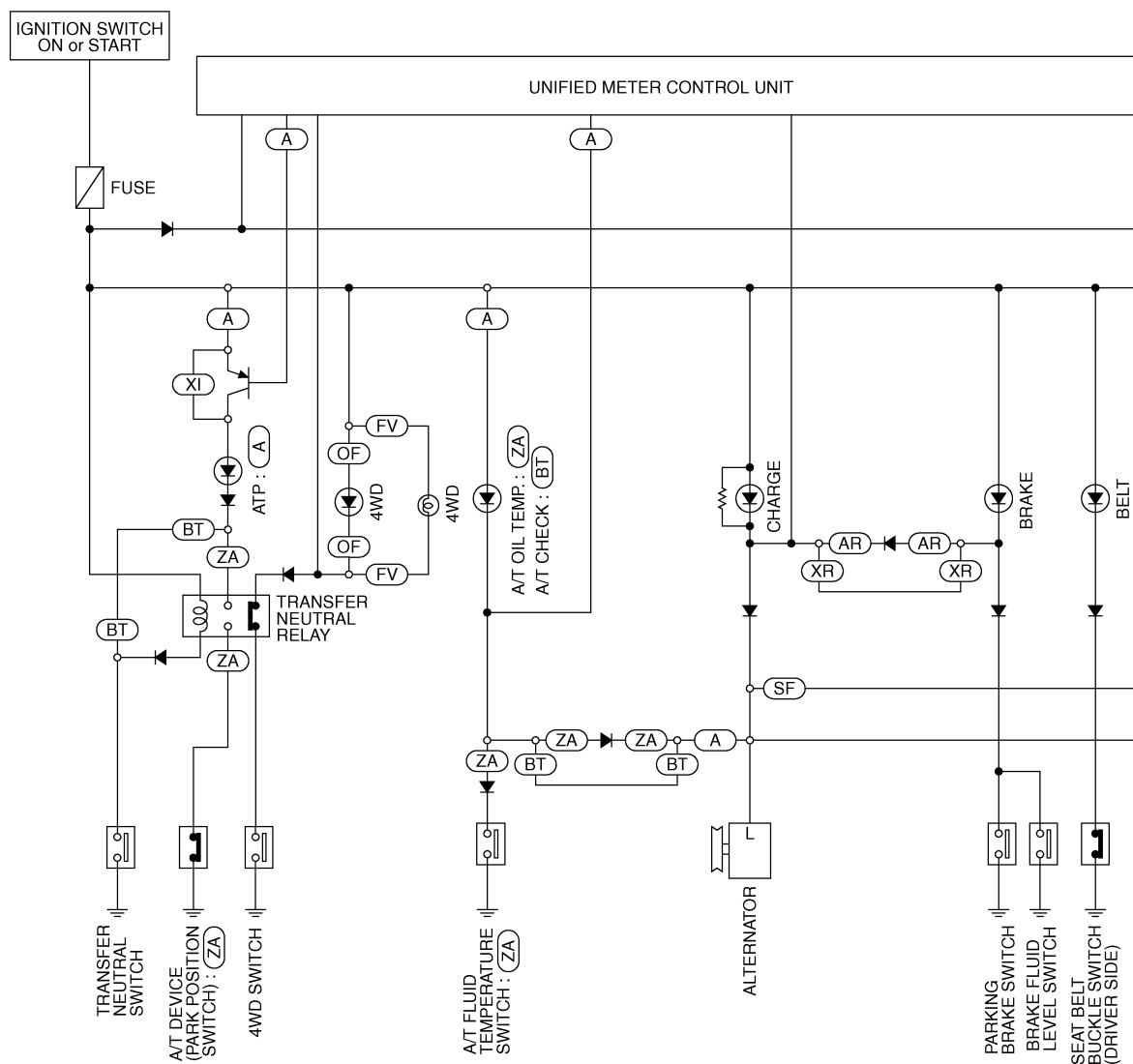
Refer to last page (Foldout page).

M20, B19
M21, E127

TEL024N

WARNING LAMPS/WAGON AND HARDTOP MODELS

Schematic



(ME) : For the Middle East

(AR) : For Australia

(XR) : Except for Australia

(A) : A/T models

(BE) : TB48 engine models

(BT) : TB48 engine A/T models

(ZA) : ZD engine A/T models

(TE) : TB45E engine models

(XI) : Except TB48 engine A/T models

(TN) : TD42 engine models

(XN) : Except TD42 engine models

(TL) : TD42 engine models for cold areas

(XL) : TD42 engine models except for cold areas

(EA) : ZD engine models for Europe and Australia

(XZ) : Except for ZD engine models for Europe and Australia

(EG) : ECM control engine models

(D) : Diesel engine models

(DZ) : ZD engine models except for Europe and TD engine models

(WG) : Wagon models

(AB) : With air bag

(OB) : Without air bag

(AS) : With ABS

(OA) : Without ABS

(AM) : With A/T mode switch

(OM) : Without A/T mode switch

(FV) : With fine vision meter

(OF) : Without fine vision meter

(SF) : With sub fuel tank

(SR) : With stabilizer release device

*1 18 : (D)

32 : (TE)

35 : (BE)

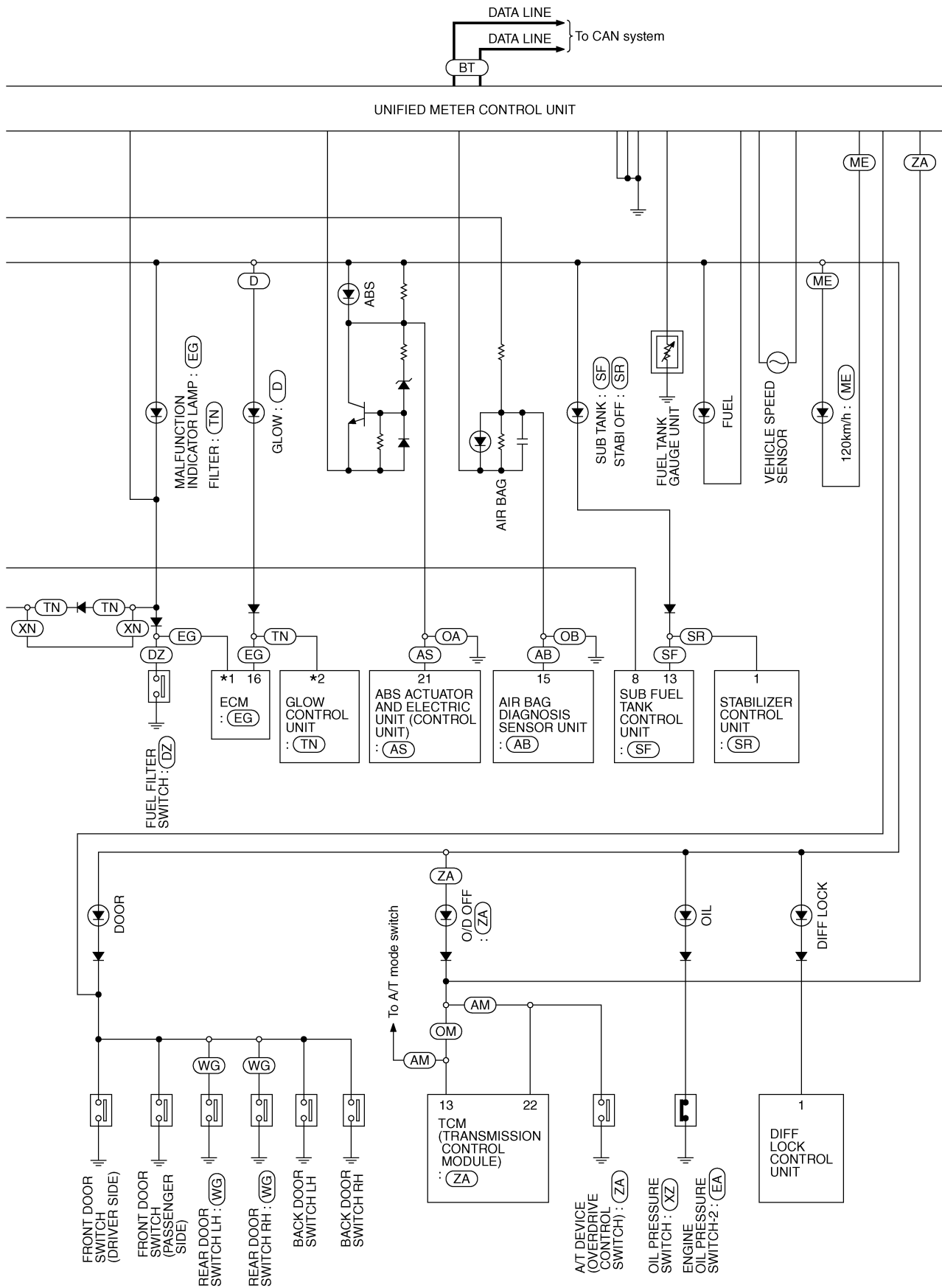
*2 3 : (XL)

14 : (TL)

TEL899M

WARNING LAMPS/WAGON AND HARDTOP MODELS

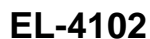
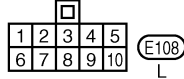
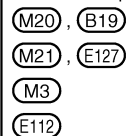
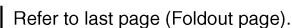
Schematic (Cont'd)



TEL143N

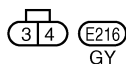
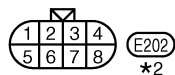
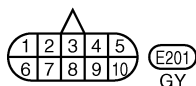
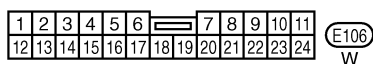
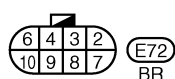
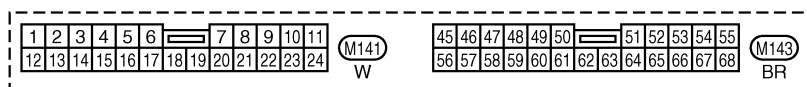
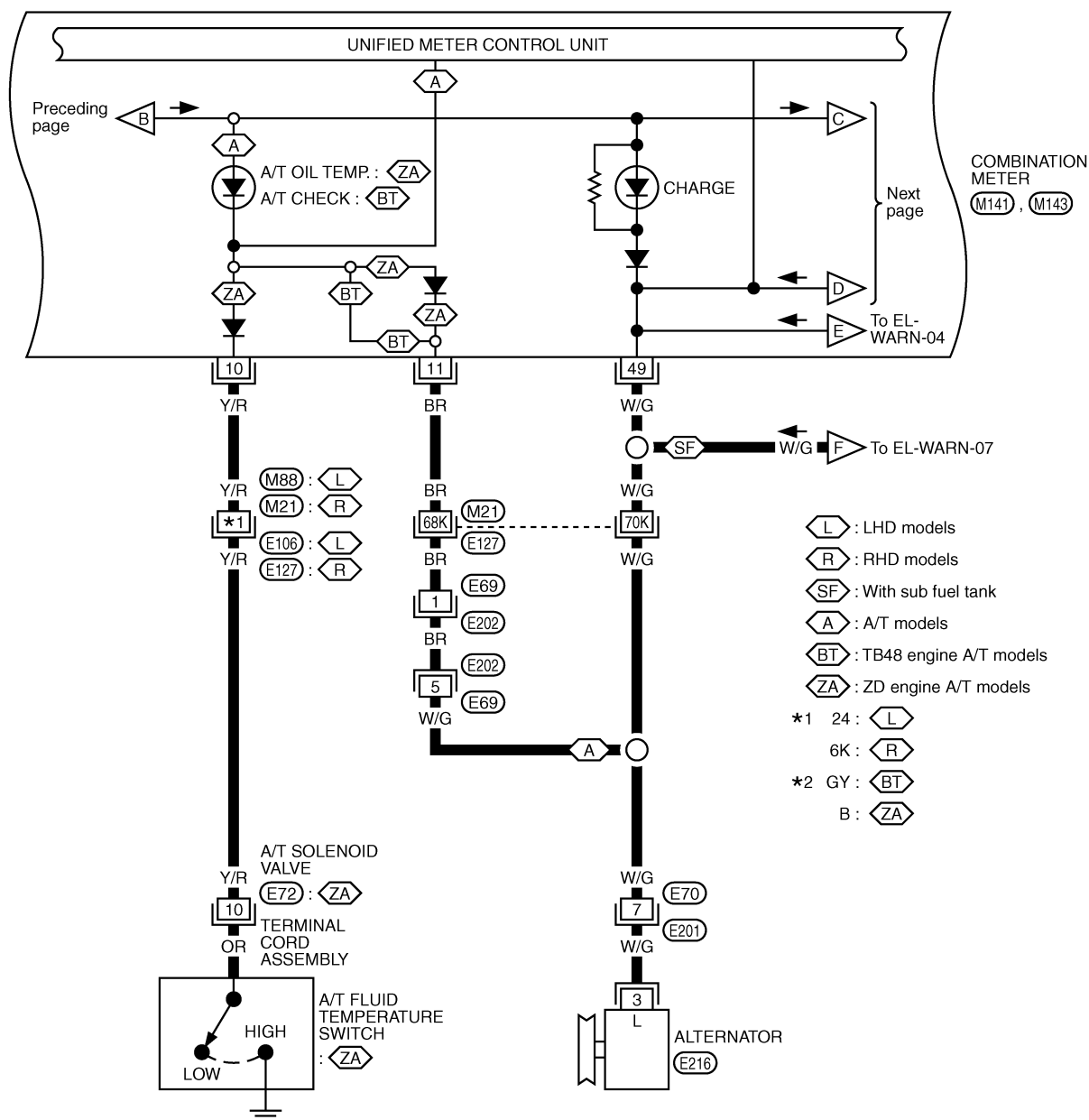
EL-WARN-01

EL-WARN-01



Wiring Diagram — WARN — (Cont'd)

EL-WARN-02

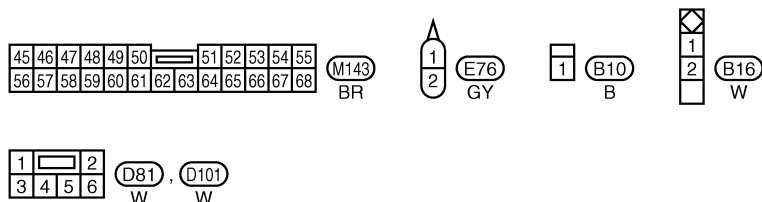
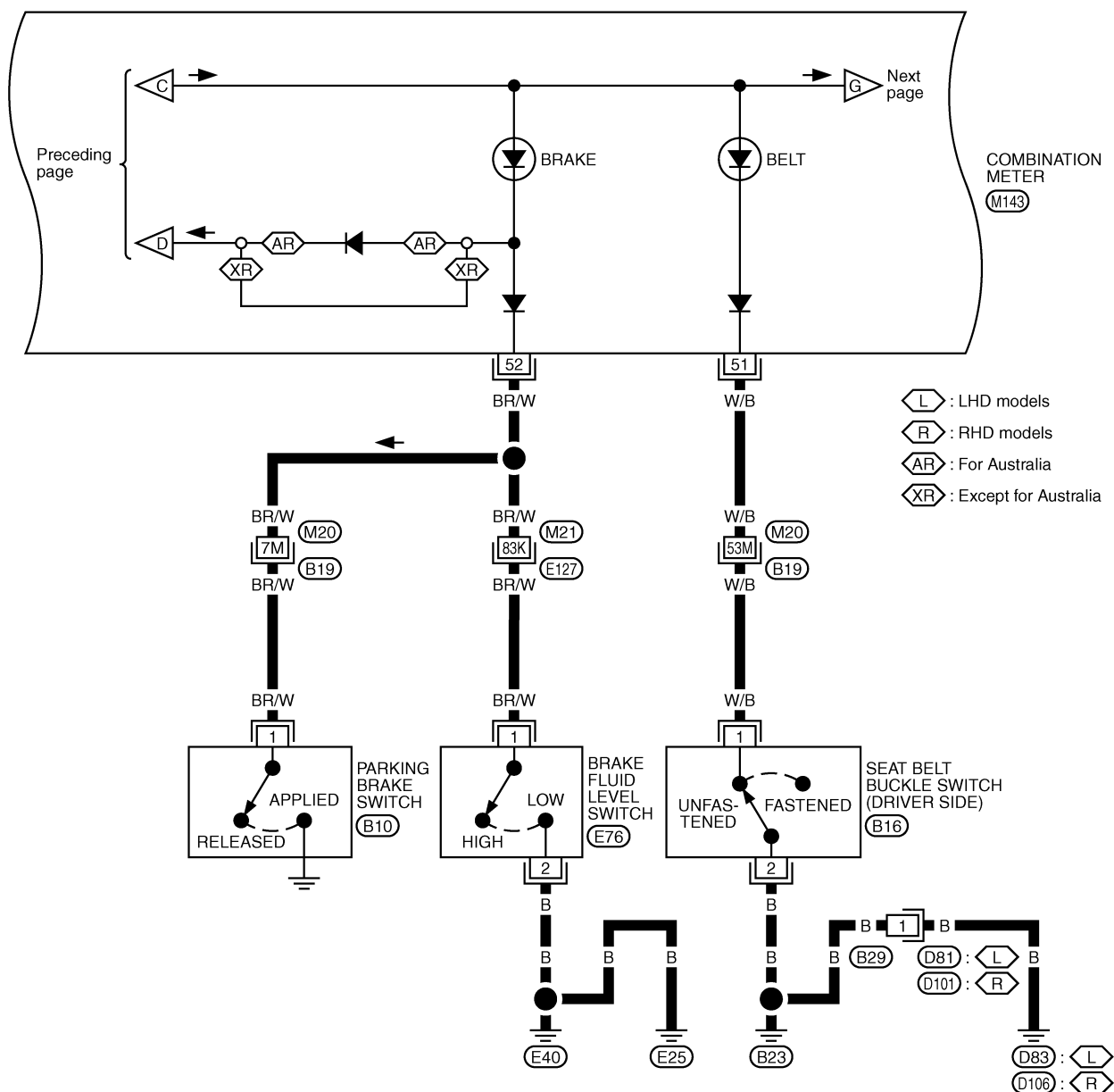


Refer to last page (Foldout page).

(M21), (E127)

Wiring Diagram — WARN — (Cont'd)

EL-WARN-03



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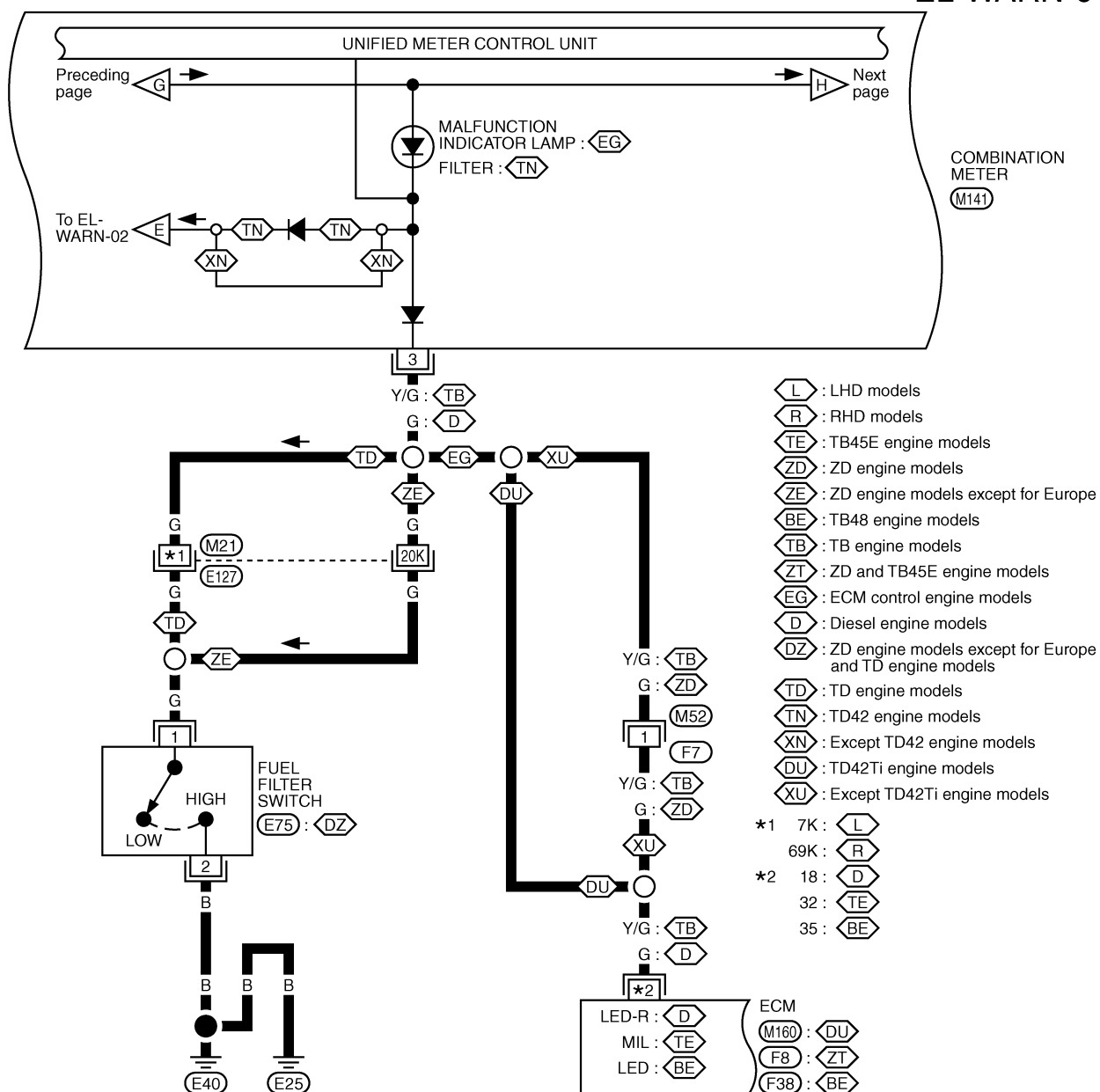
(M20), (B19)

(M21), (E127)

WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — WARN — (Cont'd)

EL-WARN-04



Refer to last page (Foldout page).

(M21) , **(E127)**

(M160)

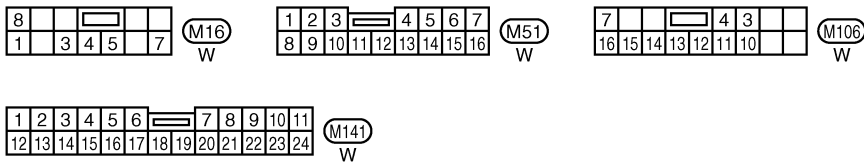
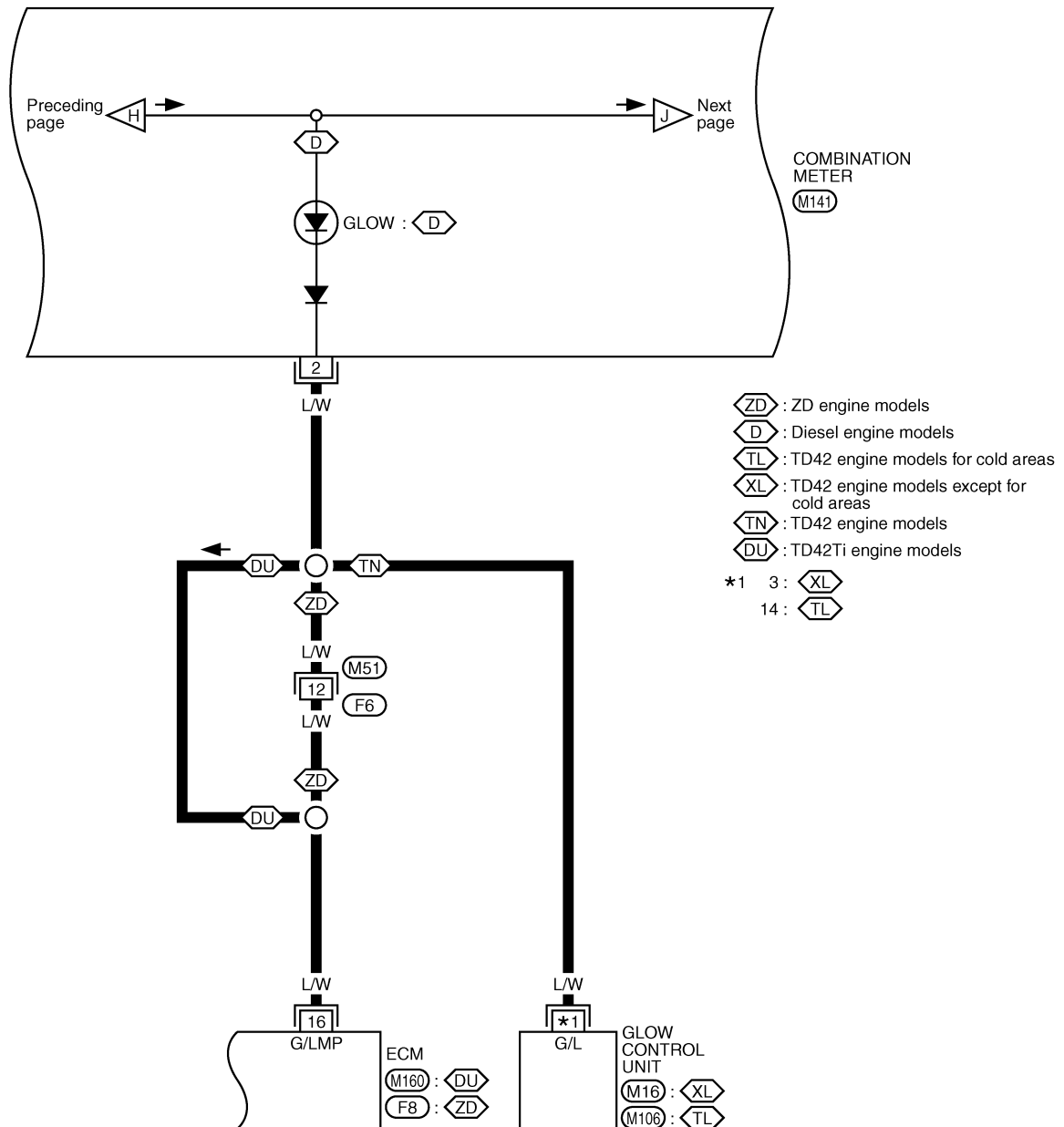
(F8)

(F38)

TEL904M

Wiring Diagram — WARN — (Cont'd)

EL-WARN-05

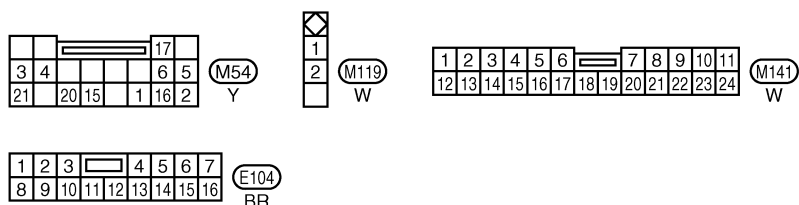
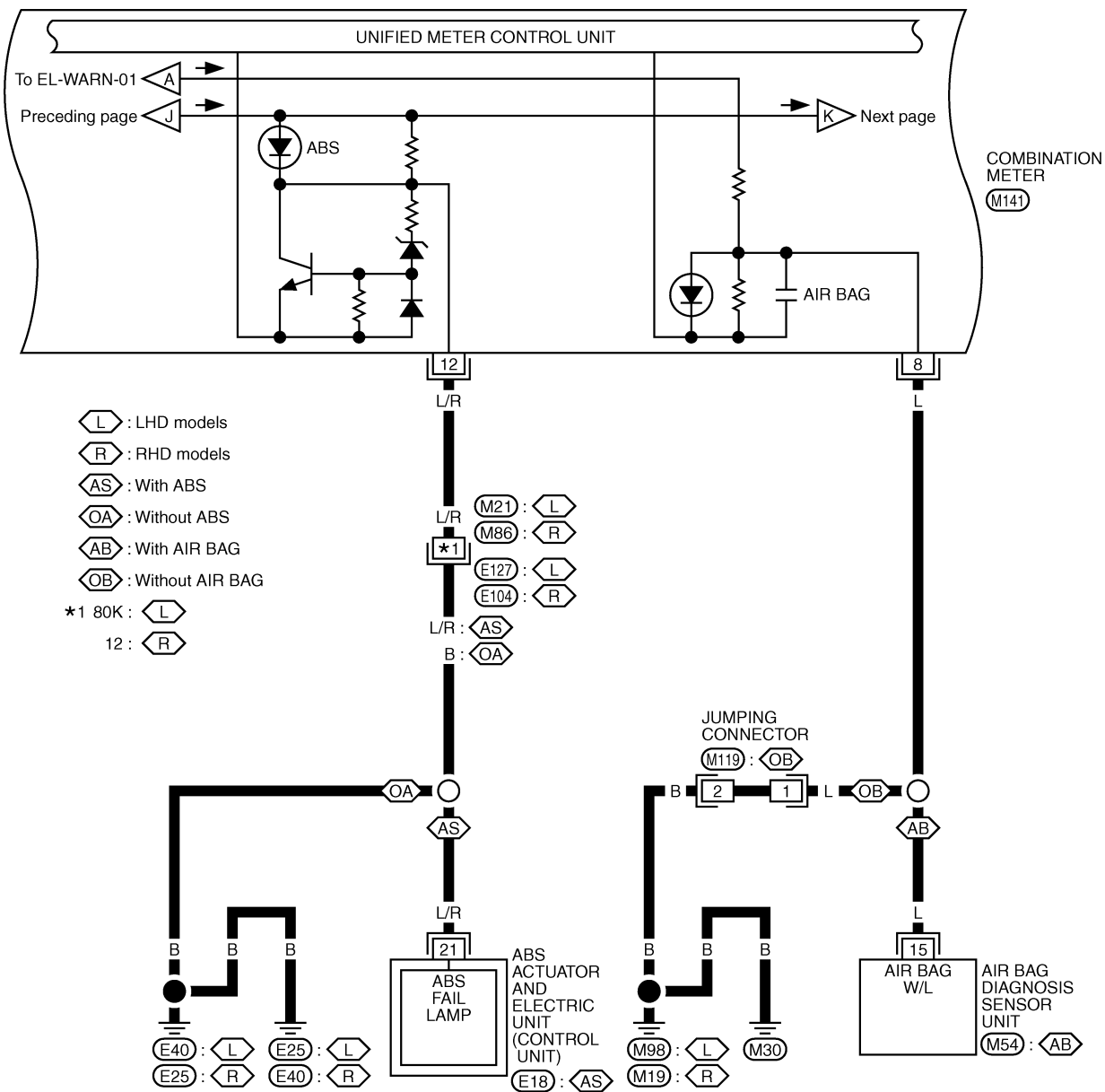


Refer to last page (Foldout page).



Wiring Diagram — WARN — (Cont'd)

EL-WARN-06



Refer to last page (Foldout page).

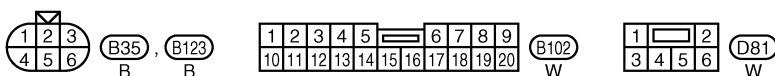
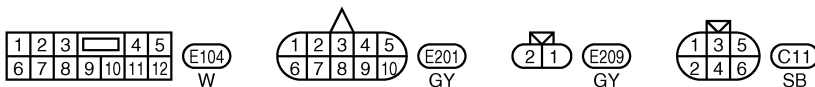
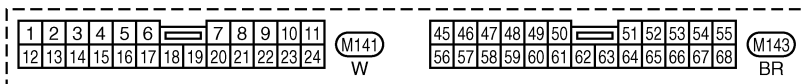
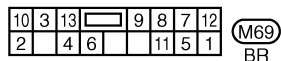
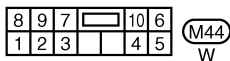
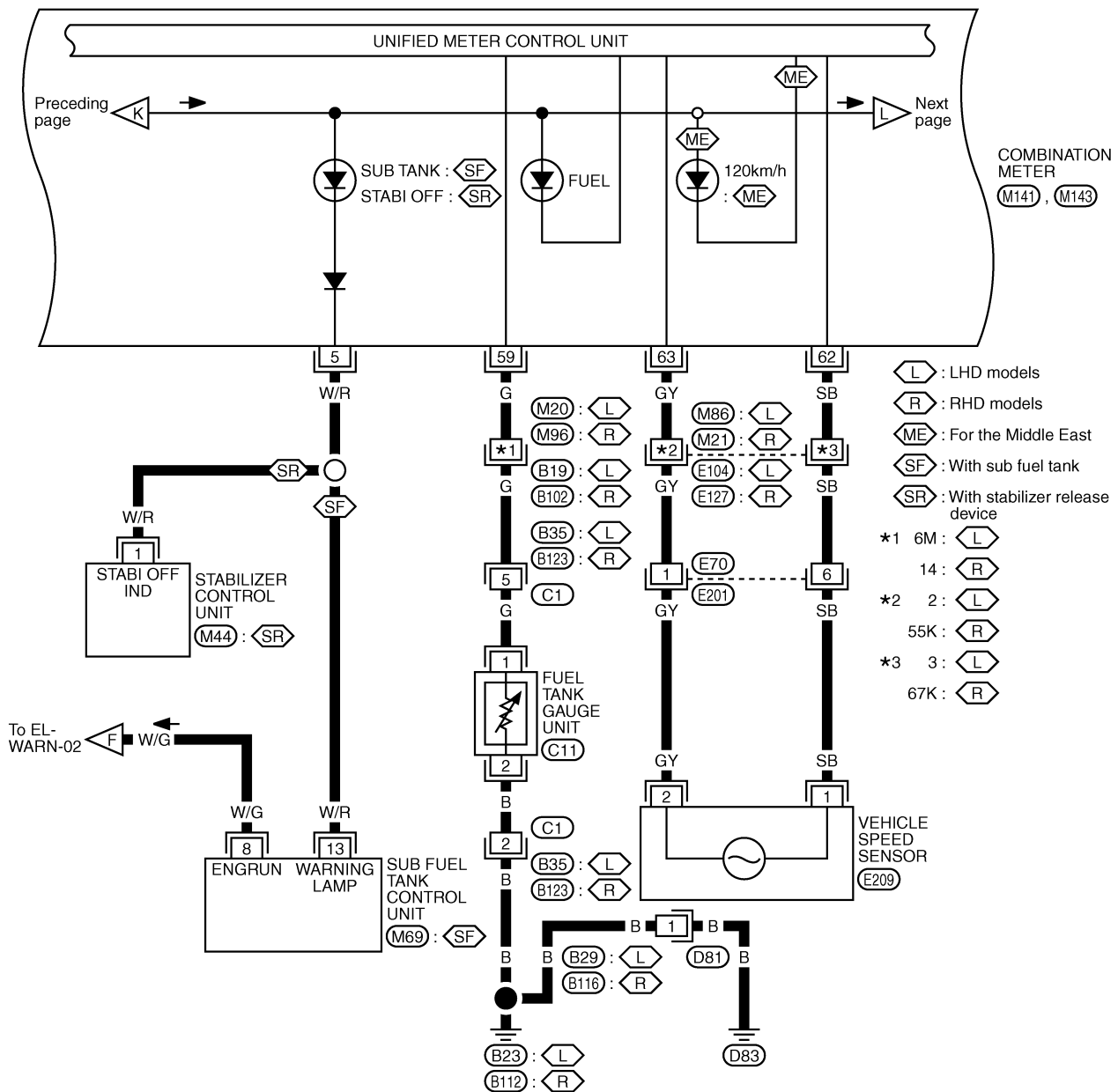
(M21), (E127)

E18

WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — WARN — (Cont'd)

EL-WARN-07



Refer to last page (Foldout page).

(M20), (B19)

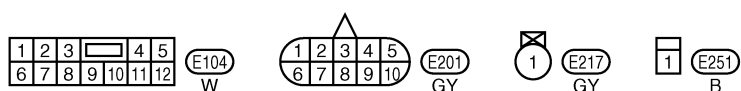
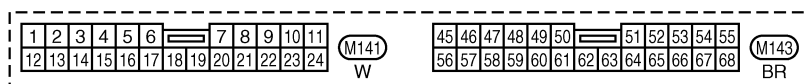
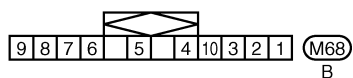
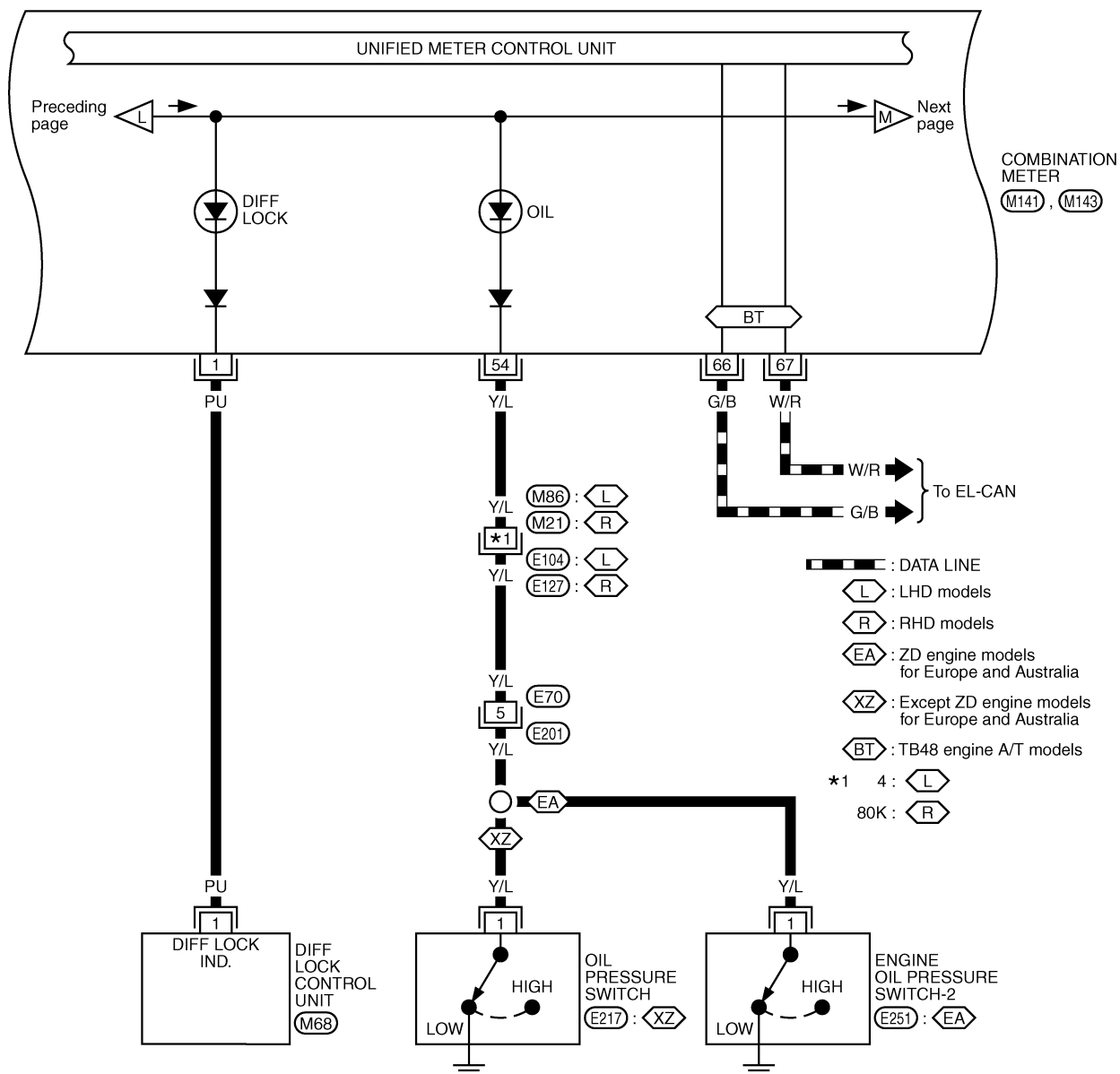
(M21), (E127)

TEL025N

WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — WARN — (Cont'd)

EL-WARN-08



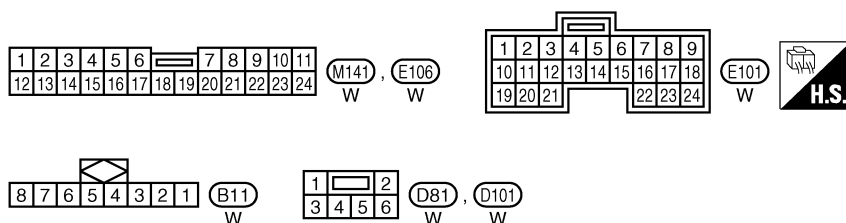
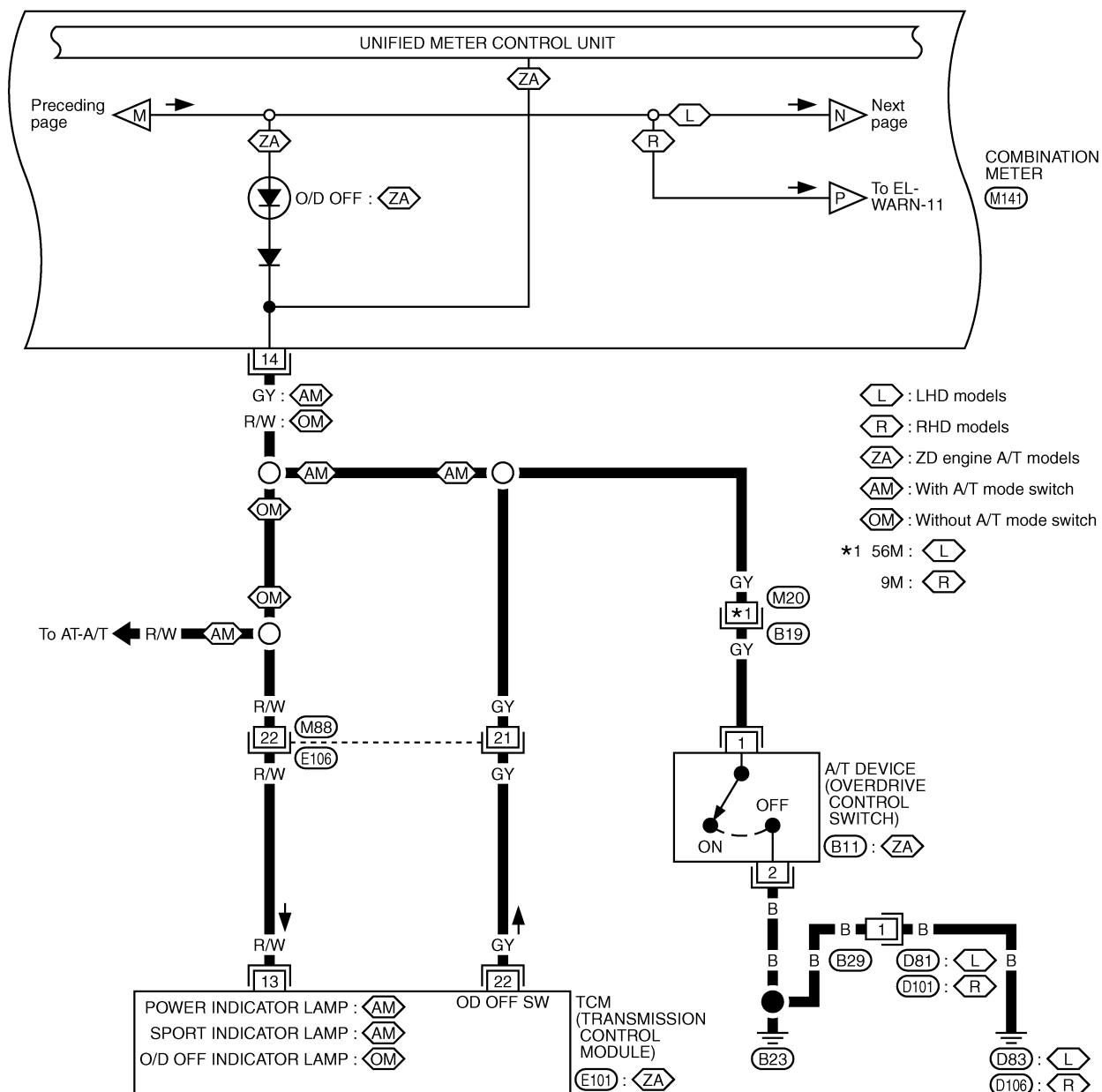
Refer to last page (Foldout page).

(M21), (E127)

TEL908M

Wiring Diagram — WARN — (Cont'd)

EL-WARN-09



Refer to last page (Foldout page).

(M20), (B19)

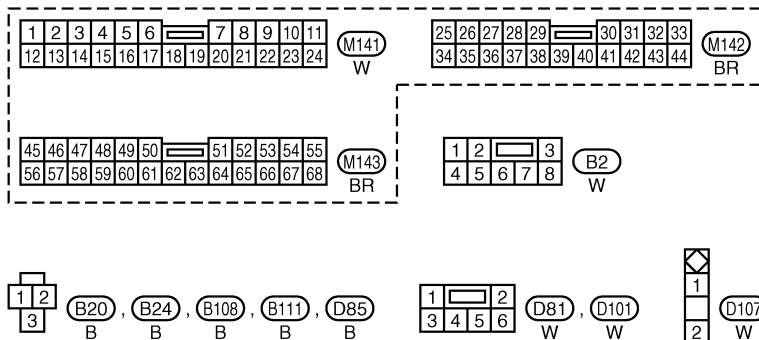
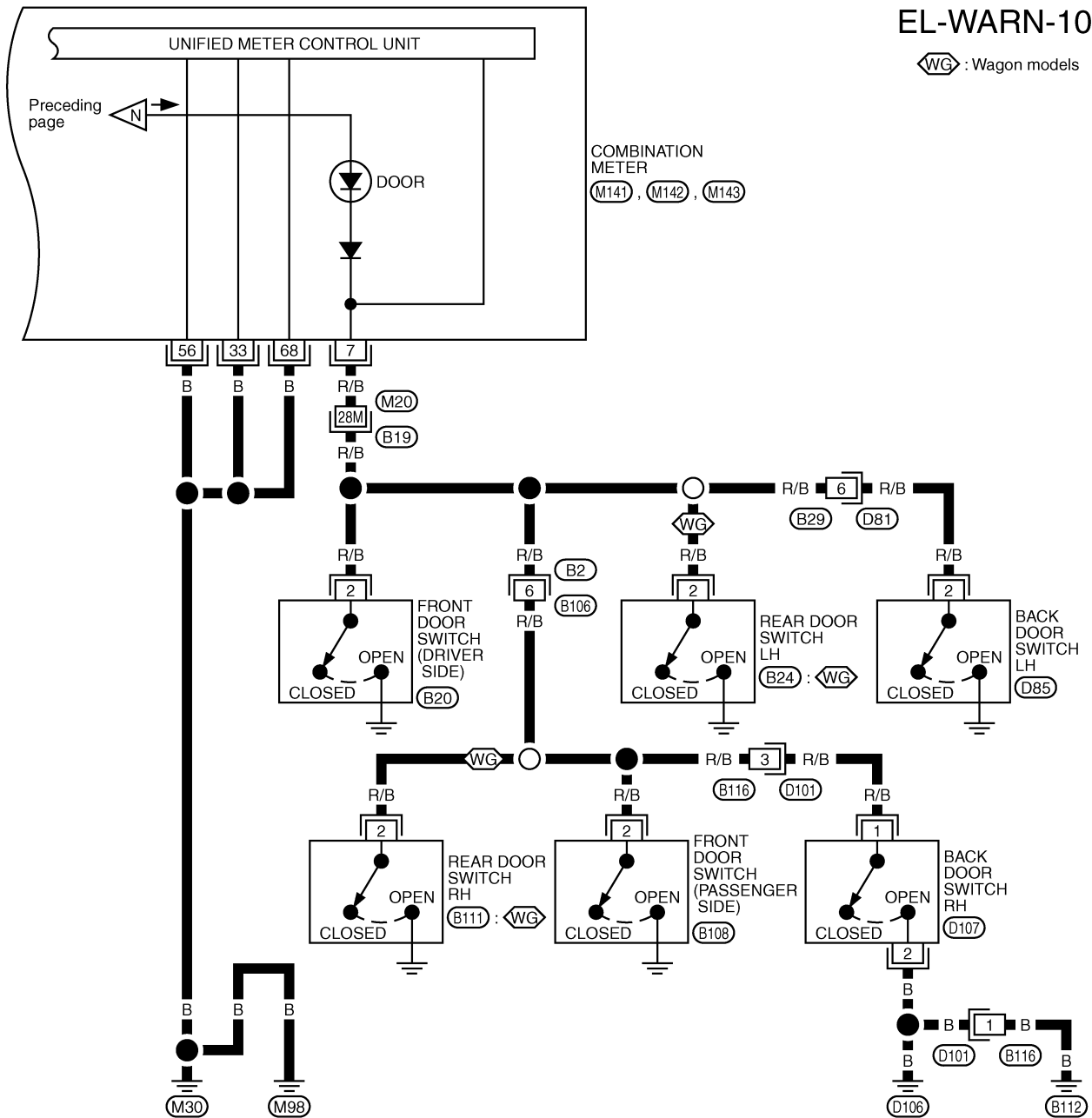
WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — WARN — (Cont'd)

LHD MODELS

EL-WARN-10

WG : Wagon models



Refer to last page (Foldout page).

M20, B19

TEL910M

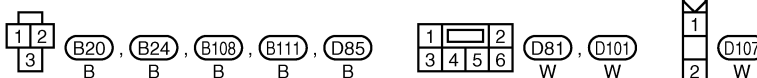
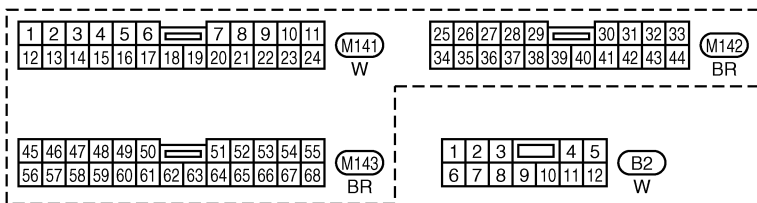
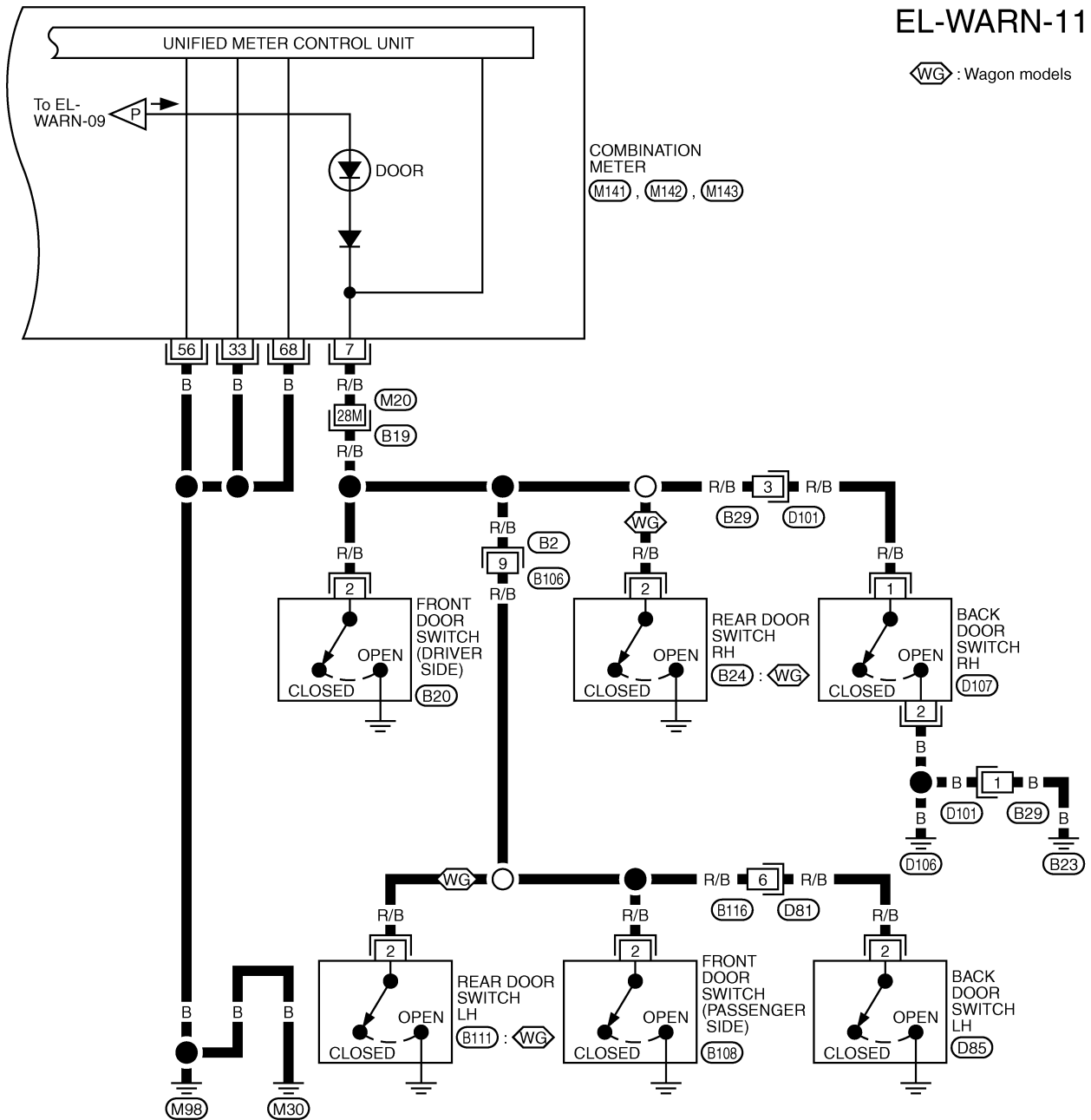
WARNING LAMPS/WAGON AND HARDTOP MODELS

Wiring Diagram — WARN — (Cont'd)

RHD MODELS

EL-WARN-11

WG : Wagon models



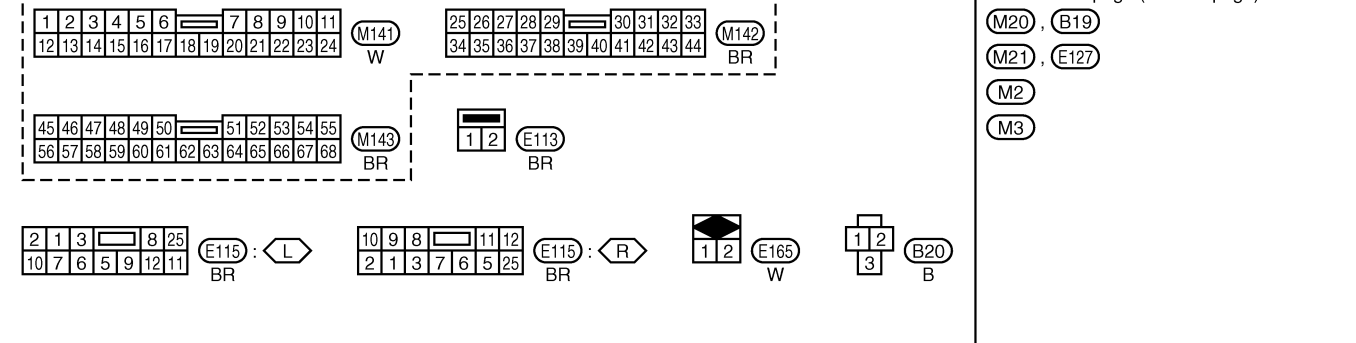
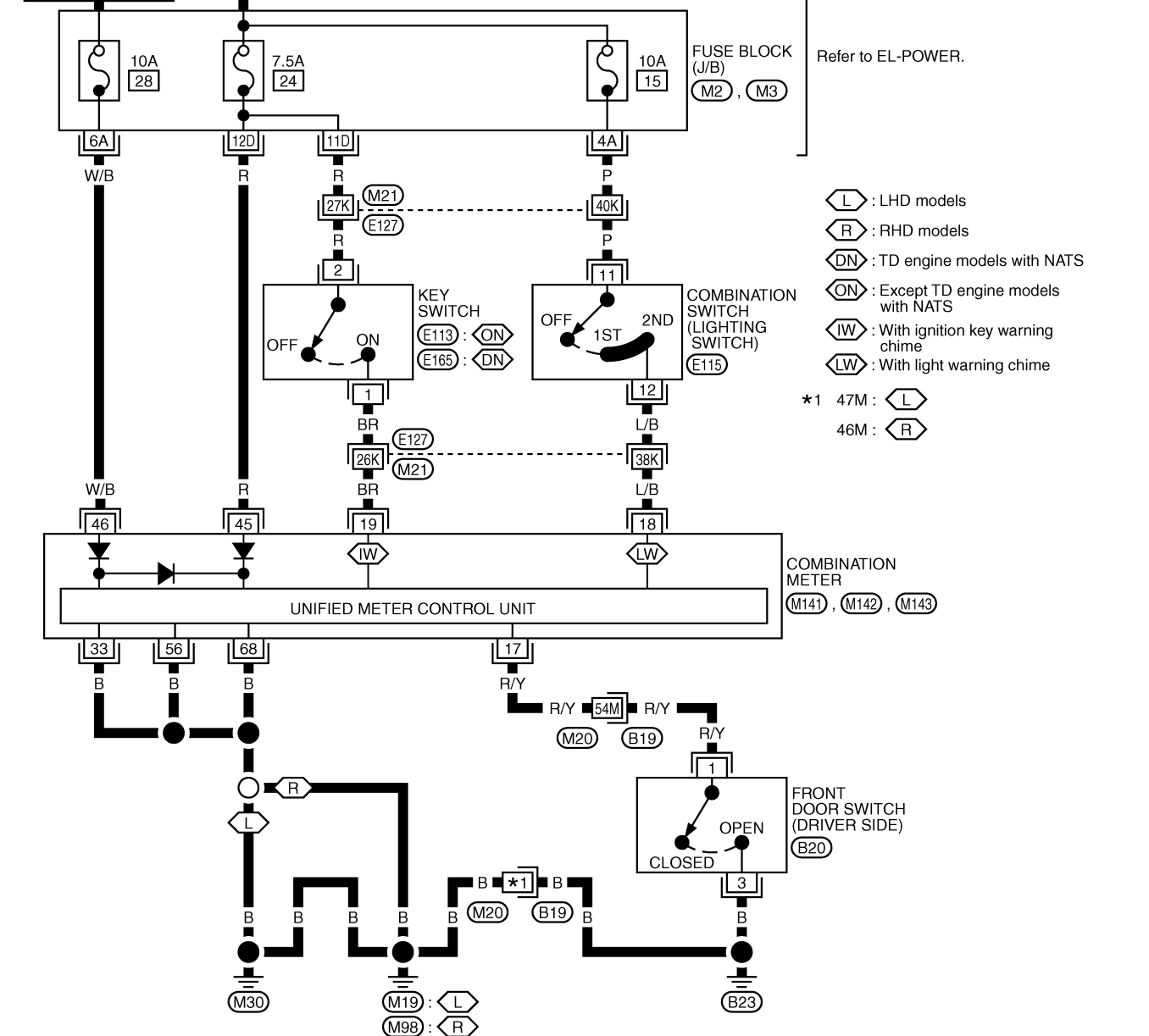
Refer to last page (Foldout page).

M20, B19

TEL026N

EL-4112

IGNITION SWITCH ON-START BATTERY EL-CHIME-01



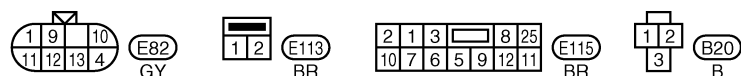
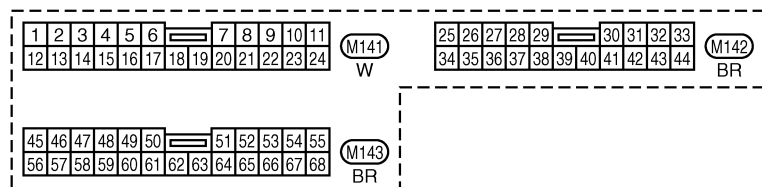
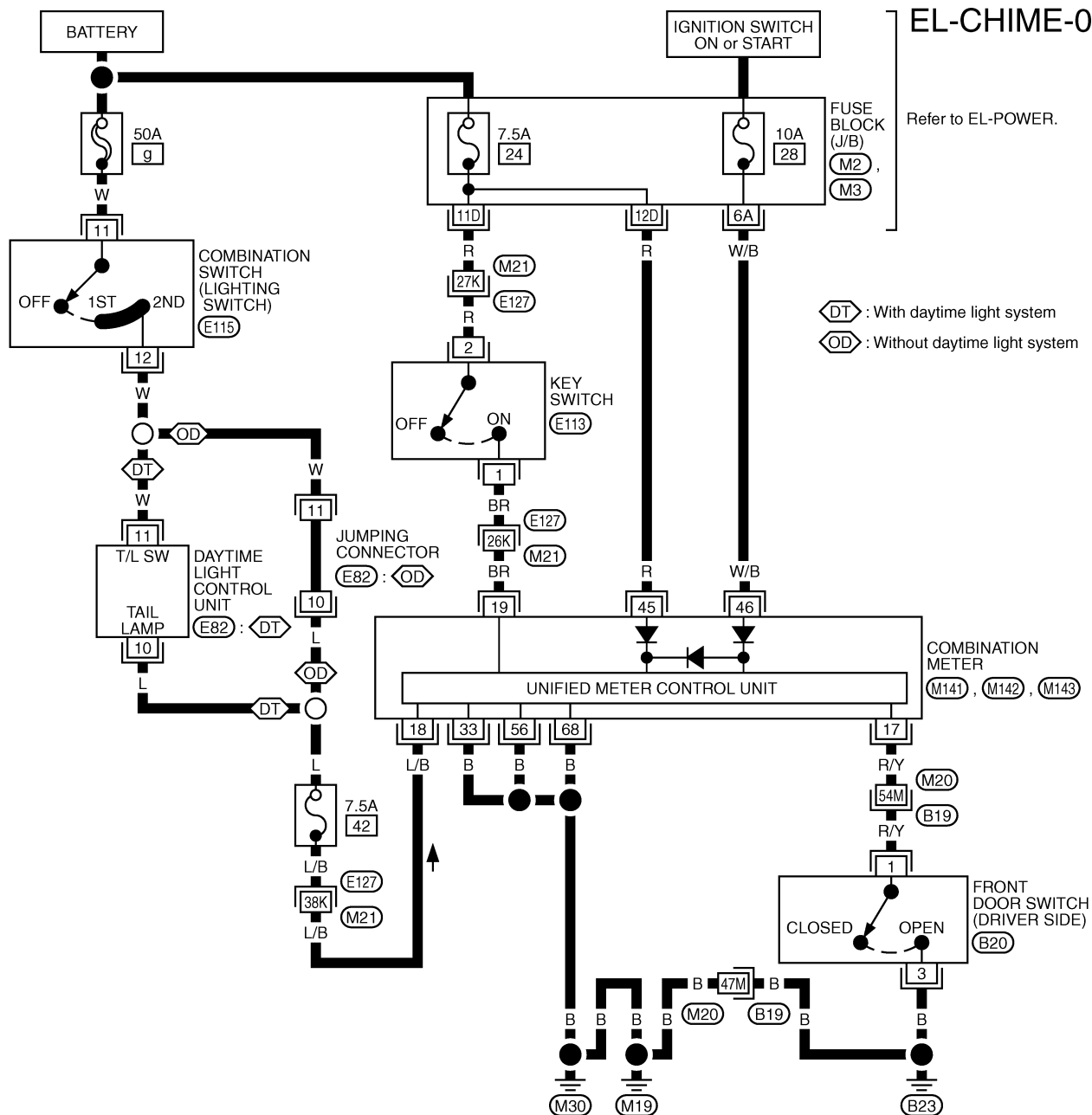
WARNING CHIME/WAGON AND HARDTOP MODELS

Wiring Diagram — CHIME —/LHD Models for Europe

EL-CHIME-02

Refer to EL-POWER.

DT : With daytime light system
OD : Without daytime light system



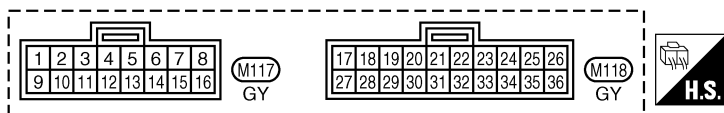
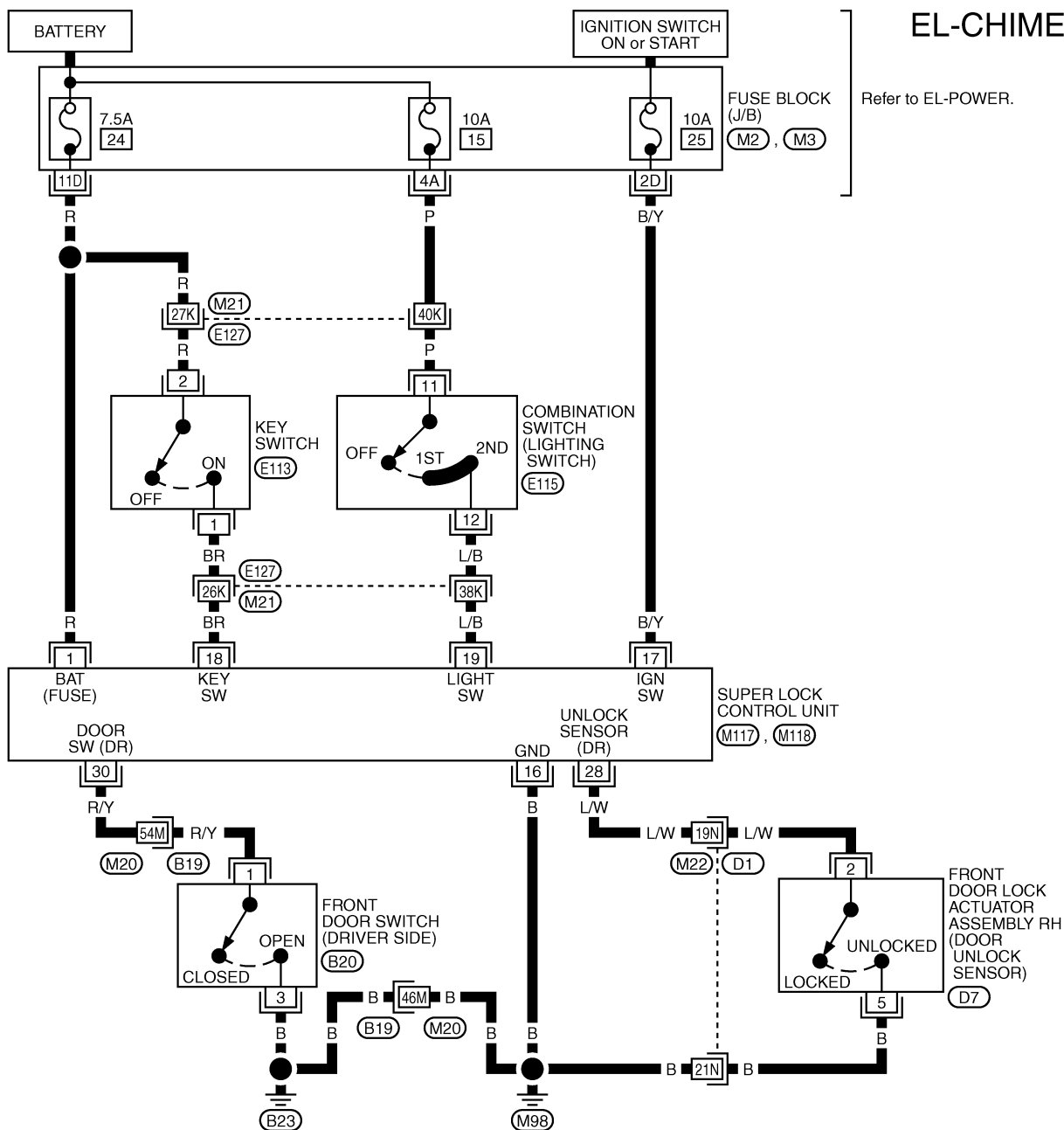
Refer to last page (Foldout page).

M20, B19
M21, E127
M2
M3

WARNING CHIME/WAGON AND HARDTOP MODELS

Wiring Diagram — CHIME —/RHD Models for Europe

EL-CHIME-03



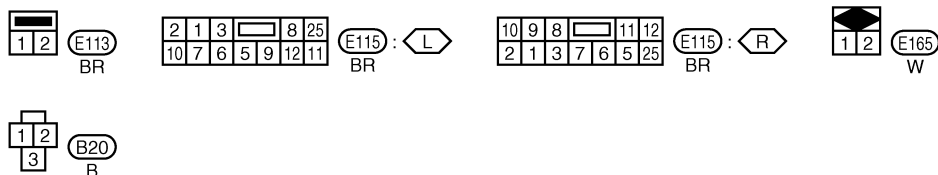
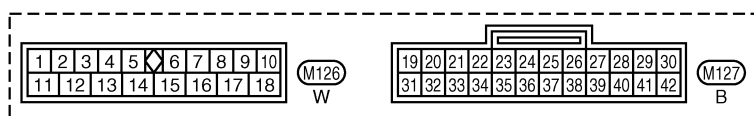
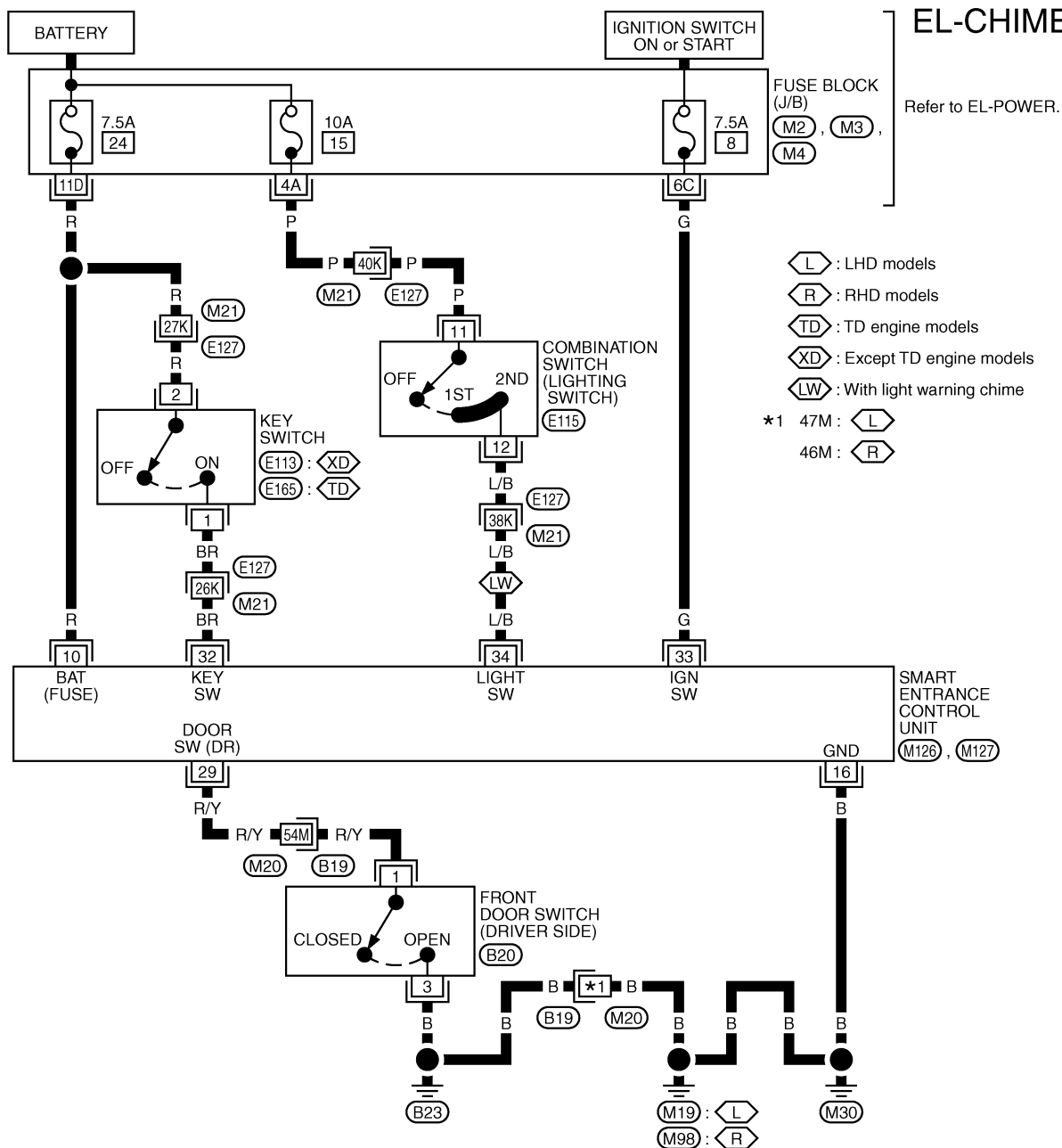
Refer to last page (Foldout page).

- (M20), (B19)
- (M21), (E127)
- (M22), (D1)
- (M2)
- (M3)

WARNING CHIME/WAGON AND HARDTOP MODELS

Wiring Diagram — CHIME —/With Theft Warning System Models

EL-CHIME-04



Refer to last page (Foldout page).

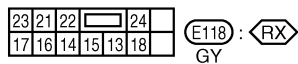
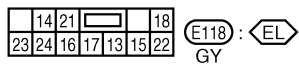
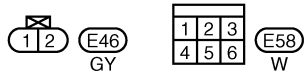
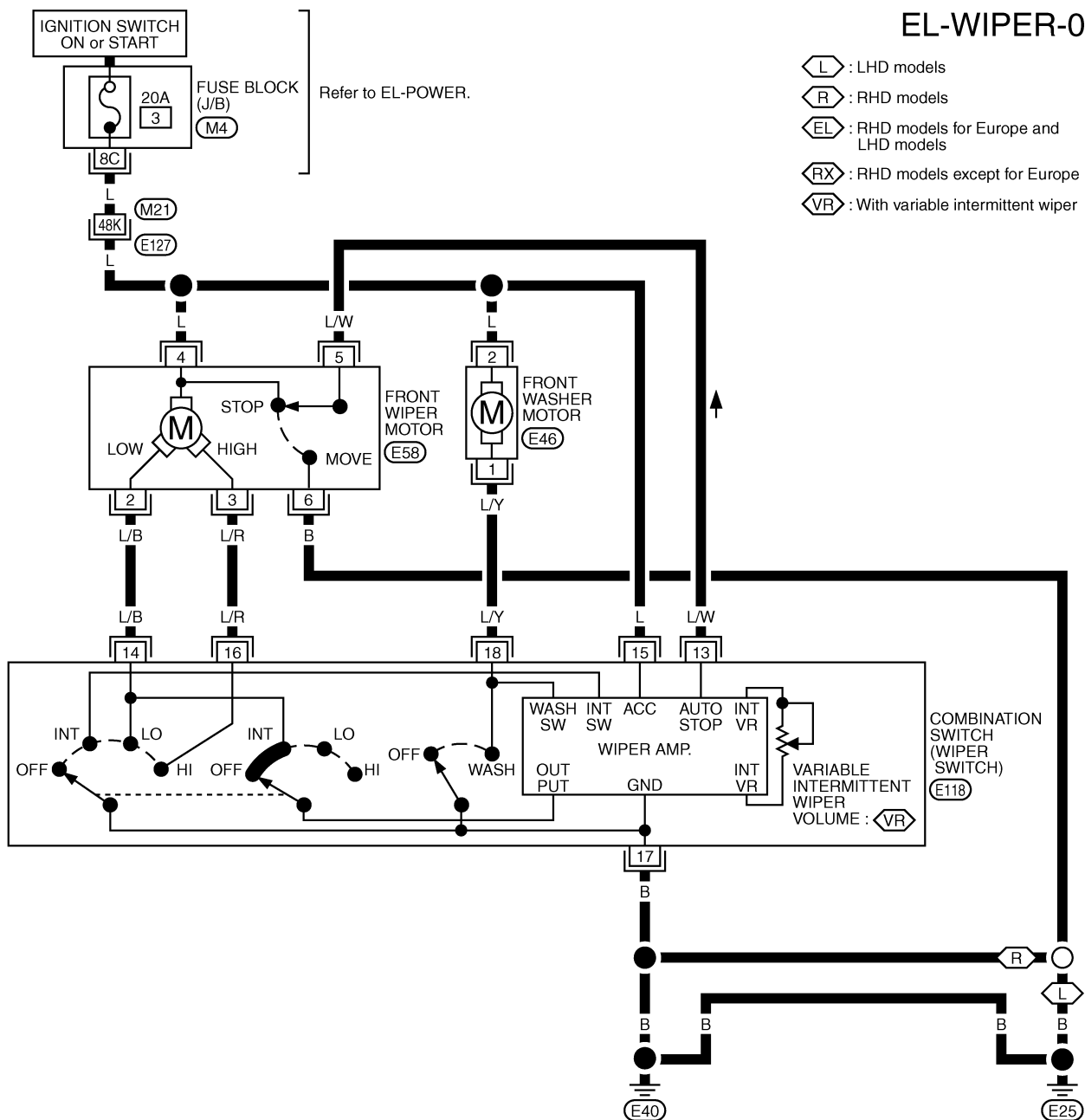
(M20), (B19)
 (M21), (E127)
 (M2)
 (M3)
 (M4)

FRONT WIPER AND WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — WIPER —

EL-WIPER-01

- ◊L : LHD models
- ◊R : RHD models
- ◊EL : RHD models for Europe and LHD models
- ◊RX : RHD models except for Europe
- ◊VR : With variable intermittent wiper



Refer to last page (Foldout page).

(M21), (E127)

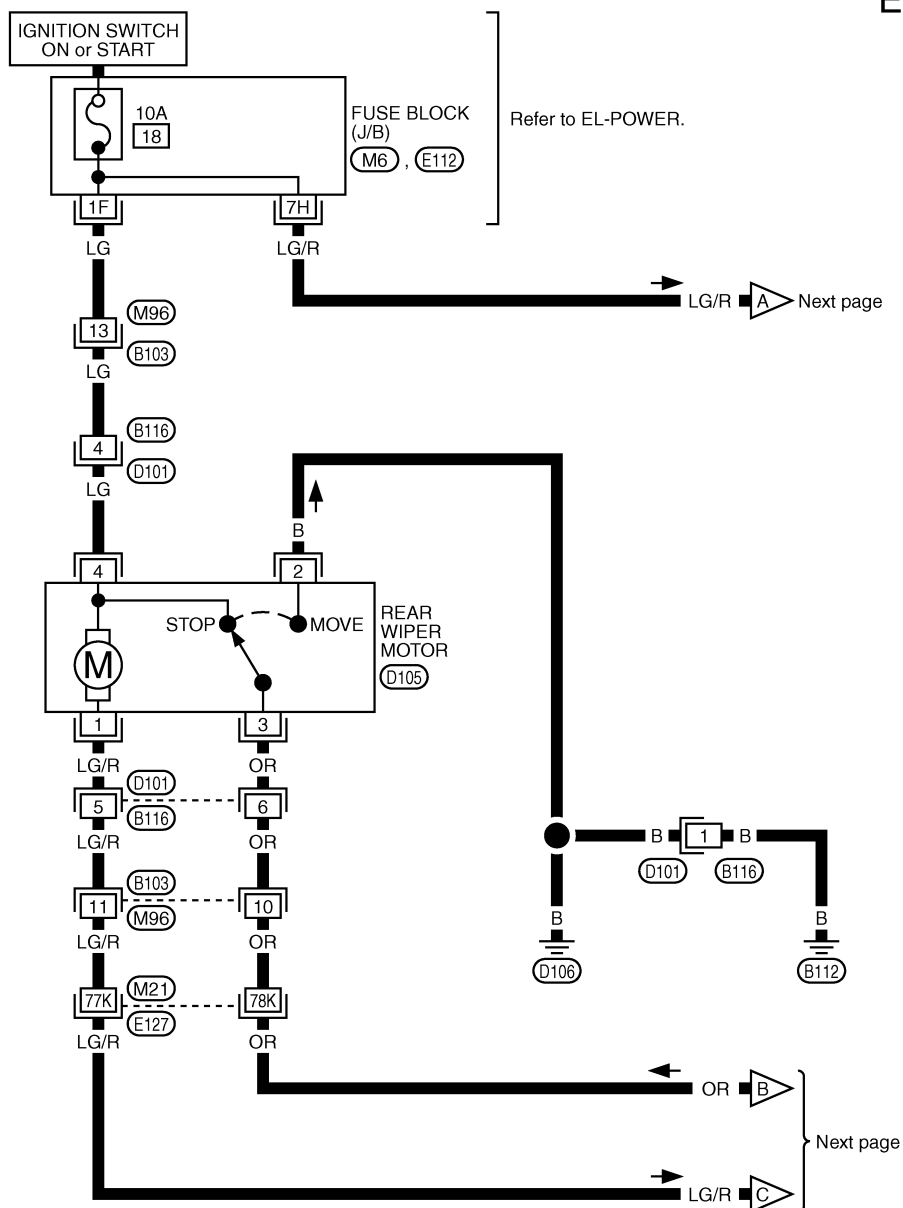
(M4)

REAR WIPER AND WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — WIP/R —

LHD MODELS

EL-WIP/R-01



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

B103
W

1	2
3	4
5	6

D101
W

1	2	3	4

D105
W

Refer to last page (Foldout page).

M21, E127

M6

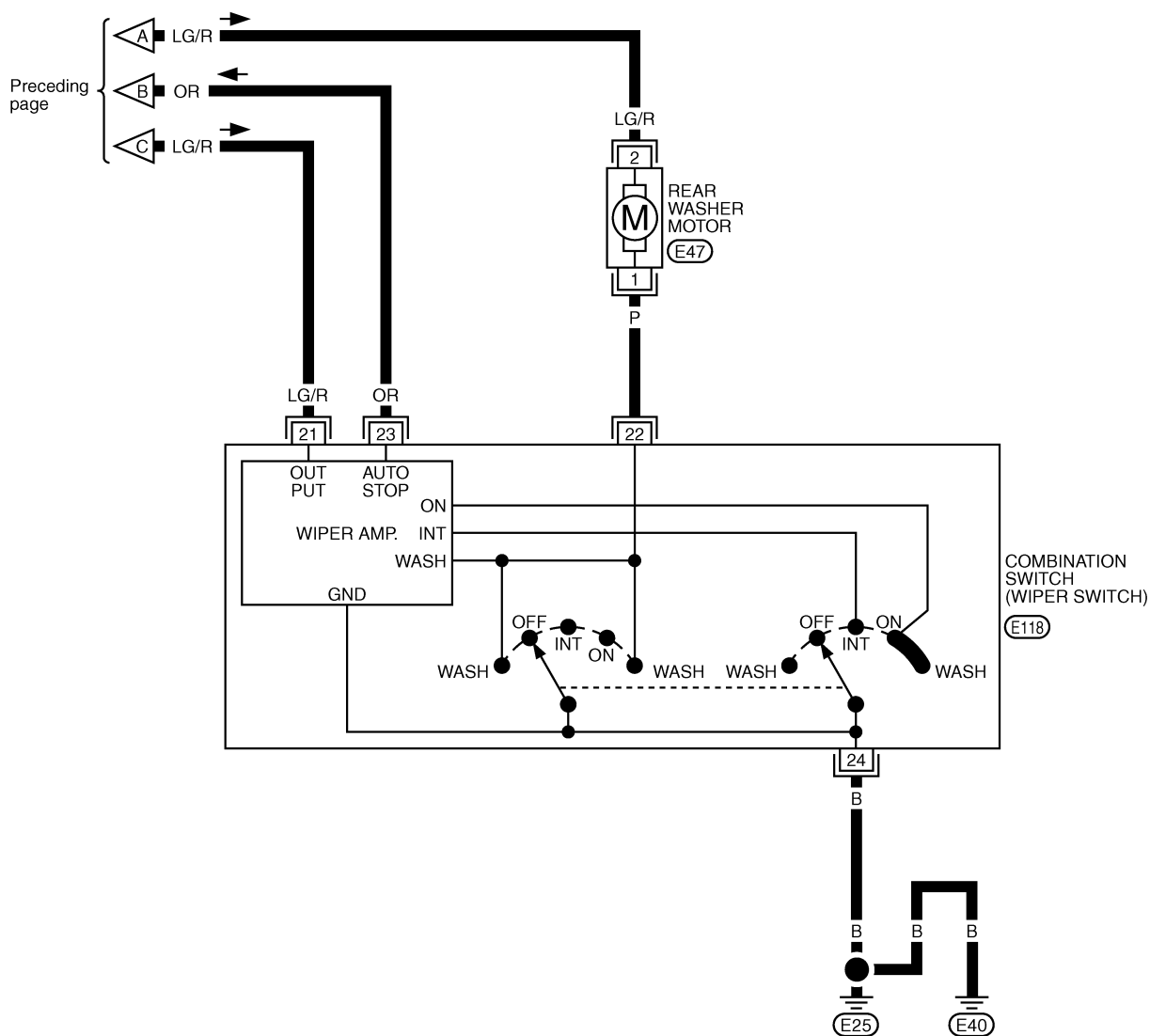
E112

REAR WIPER AND WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — WIP/R — (Cont'd)

LHD MODELS

EL-WIP/R-02



1 2 E47
G

14	21		18
23	24	16	17
13	15	22	

E118
GY

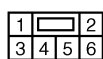
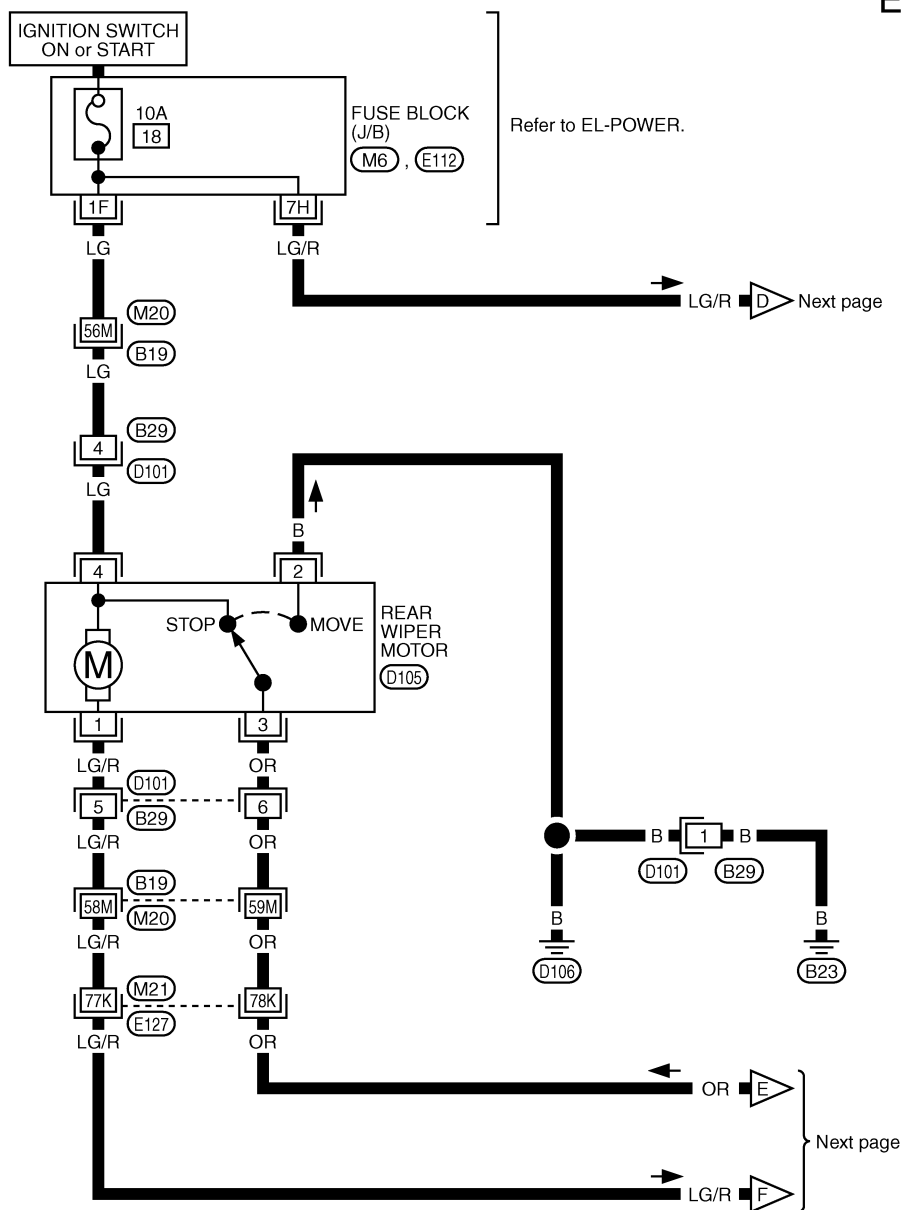
TEL033N

REAR WIPER AND WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — WIP/R — (Cont'd)

RHD MODELS

EL-WIP/R-03



D101
W



D105
W

Refer to last page (Foldout page).

M21 , E127

M20 , B19

M6

E112

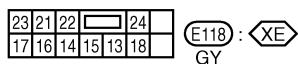
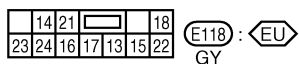
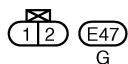
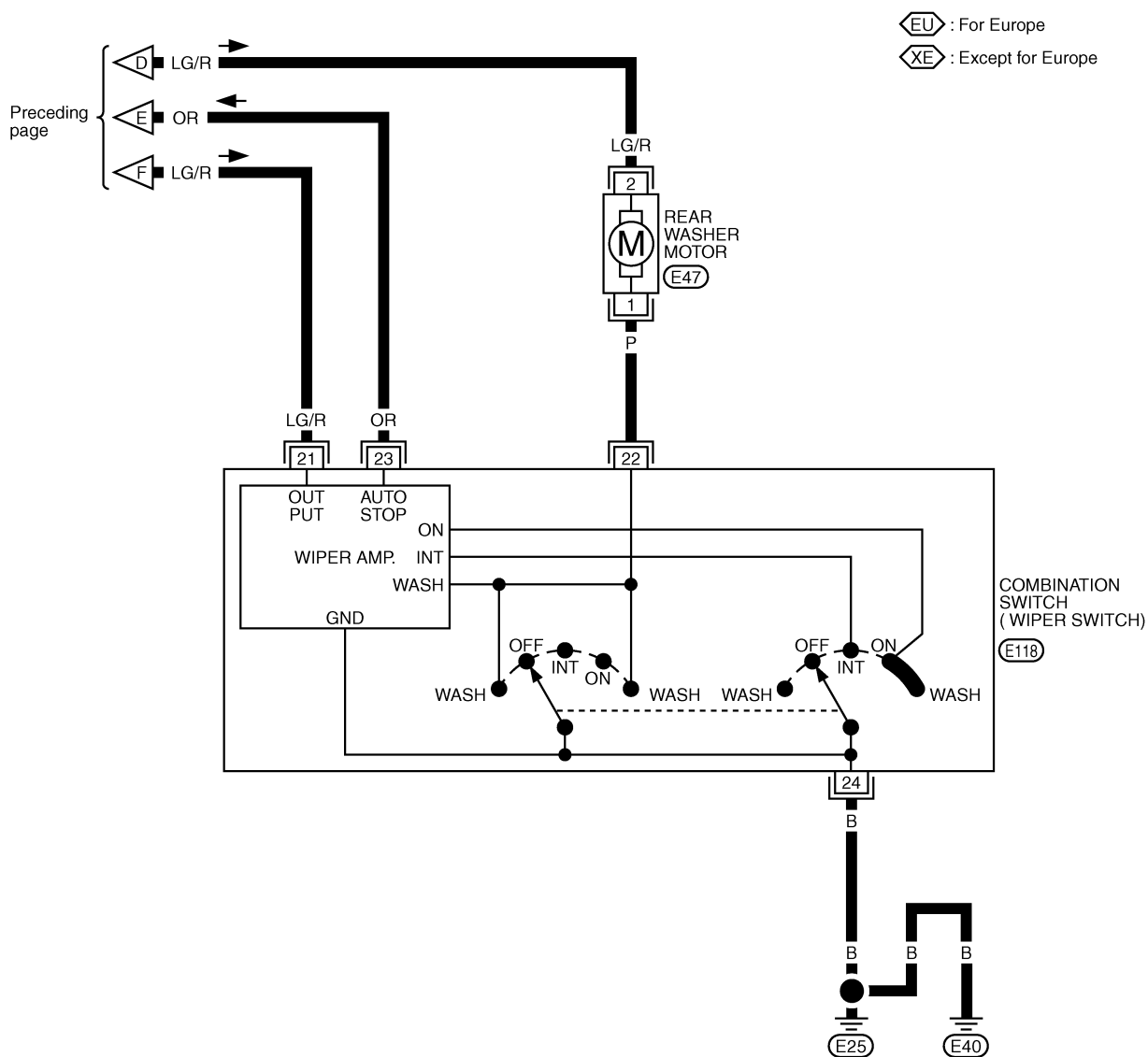
TEL034N

REAR WIPER AND WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — WIP/R — (Cont'd)

RHD MODELS

EL-WIP/R-04

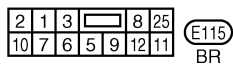
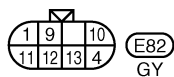
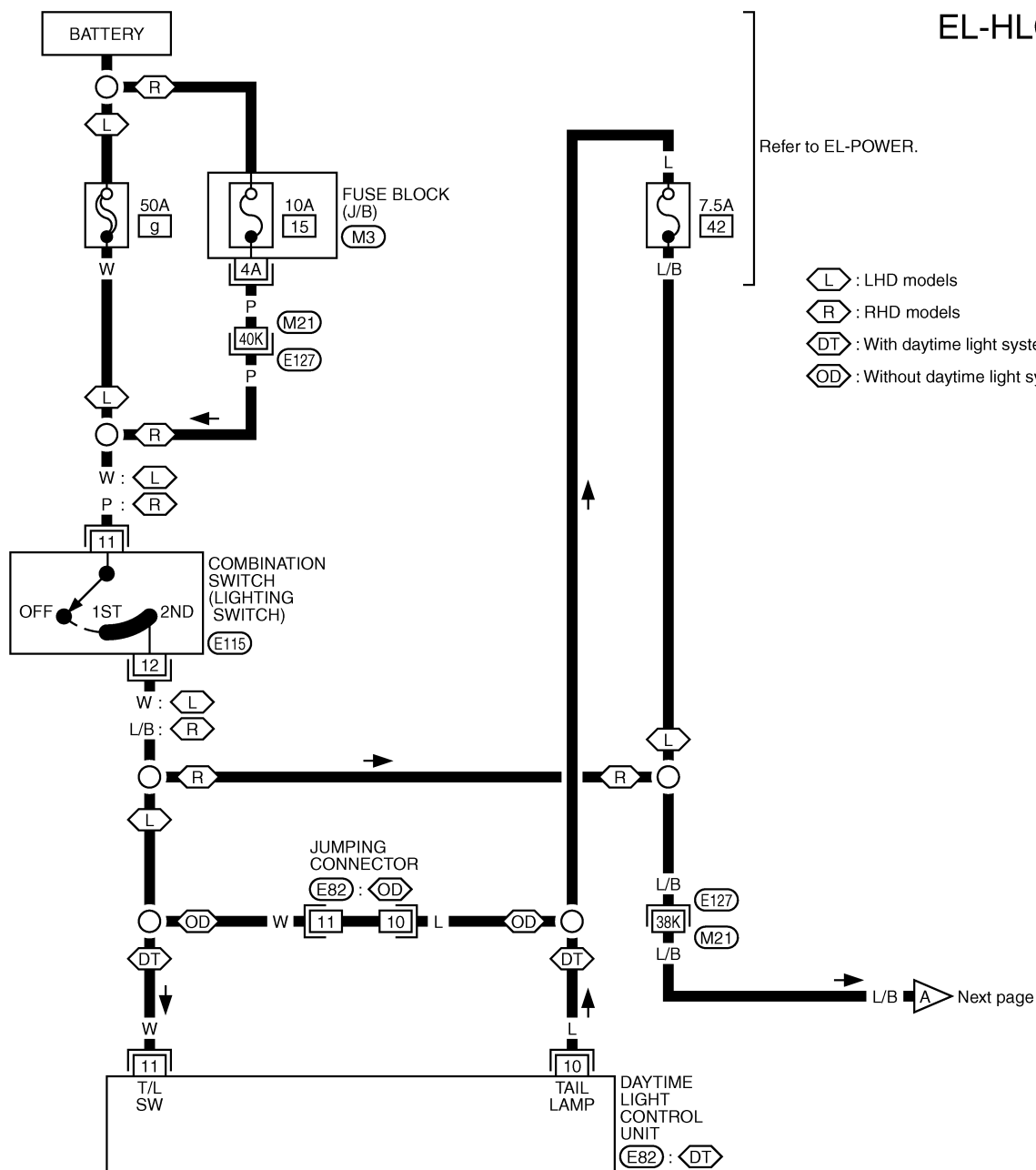


TEL035N

HEADLAMP WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — HLC —

EL-HLC-01



Refer to last page (Foldout page).

M21, E127

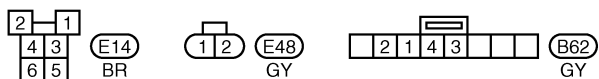
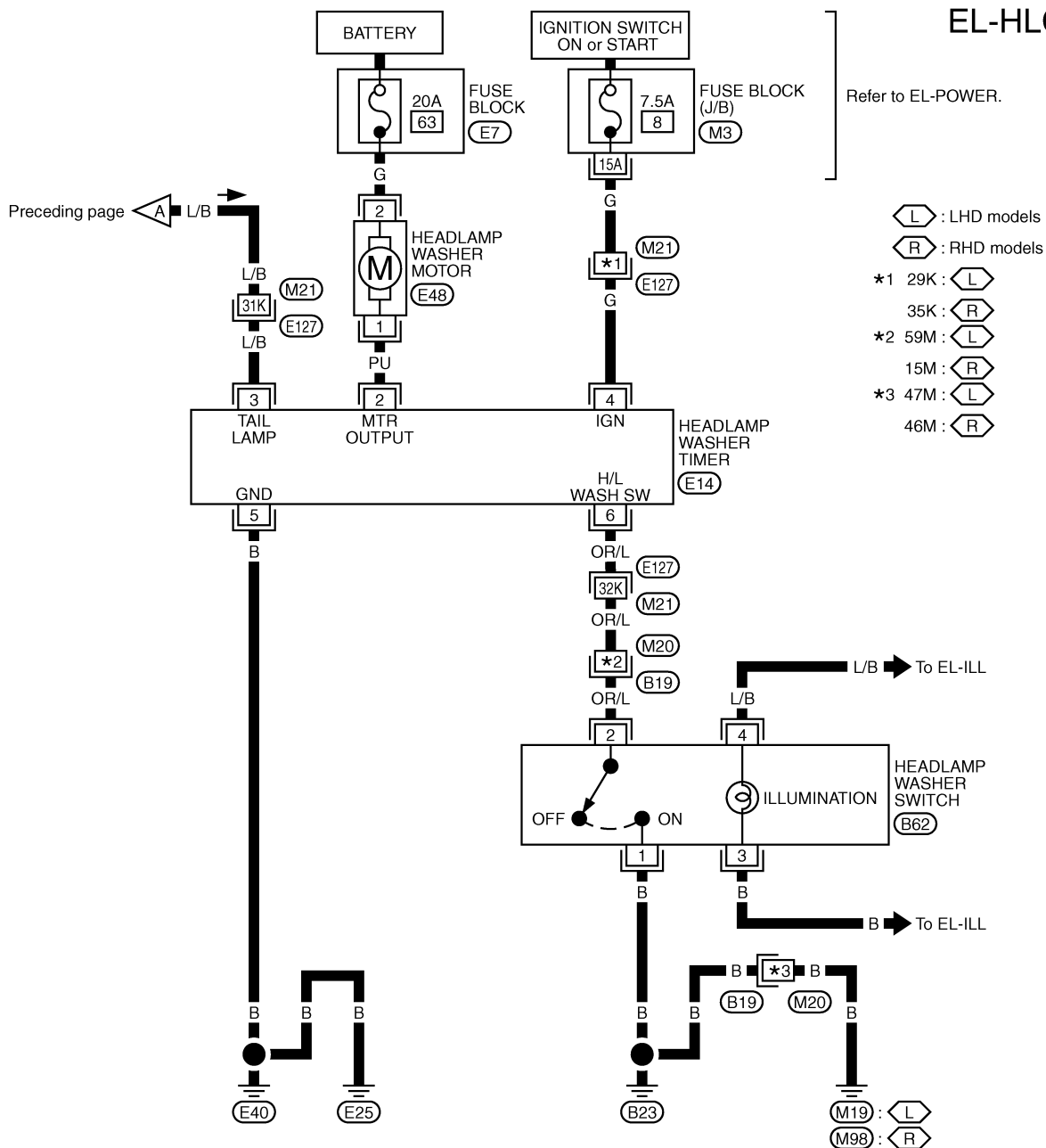
M3

TEL036N

HEADLAMP WASHER/WAGON AND HARDTOP MODELS

Wiring Diagram — HLC — (Cont'd)

EL-HLC-02



Refer to last page (Foldout page).

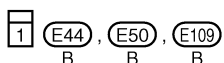
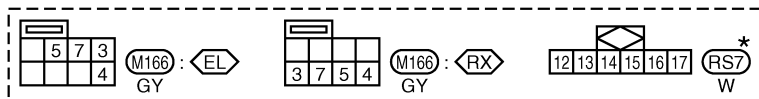
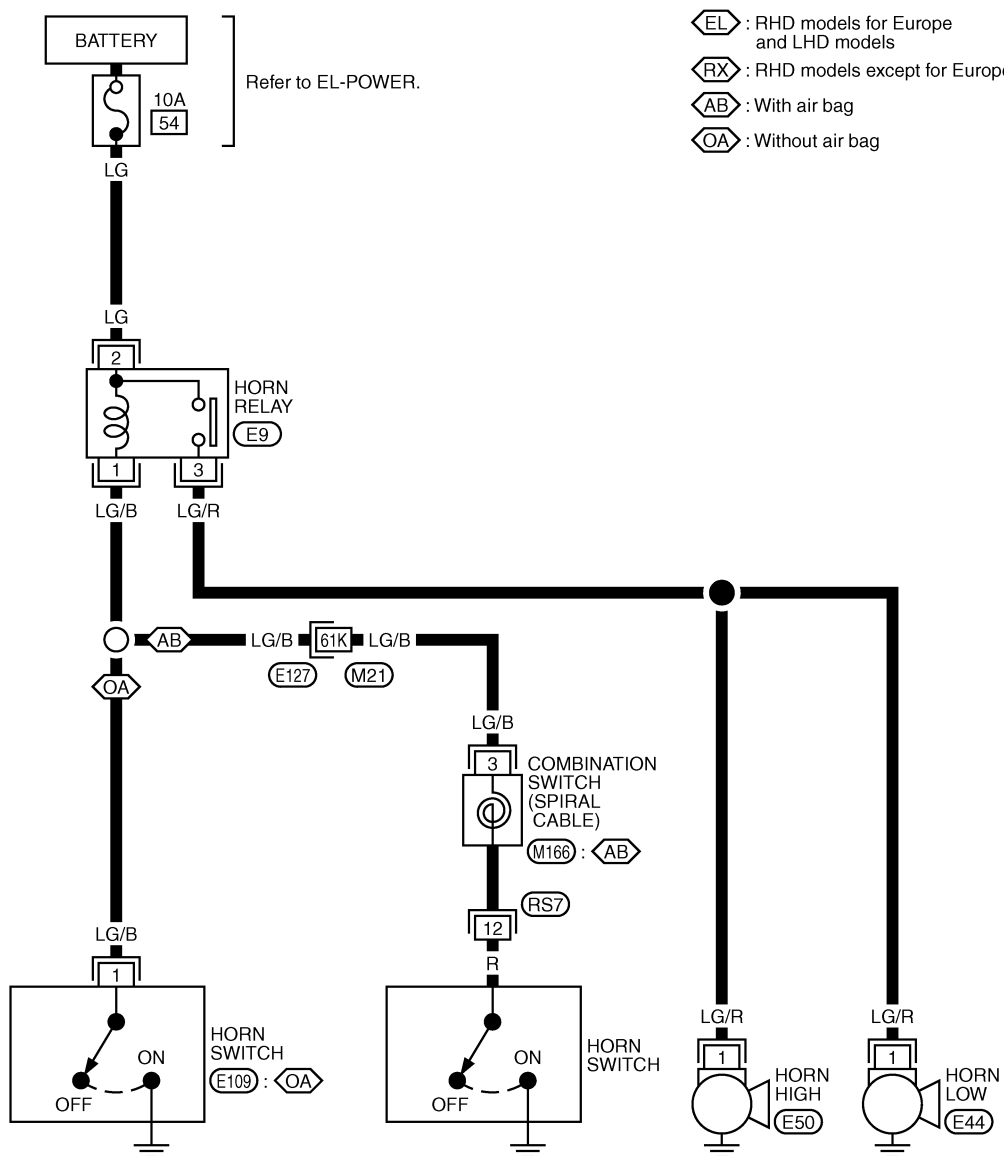
M20, B19
M21, E127
M3
E7

TEL037N

HORN/WAGON AND HARDTOP MODELS

Wiring Diagram — HORN —

EL-HORN-01



★: This connector is not shown in "HARNESS LAYOUT", EL section.

Refer to last page (Foldout page).

(M21), (E127)

WIPER DEICER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEICER —

EL-DEICER-01

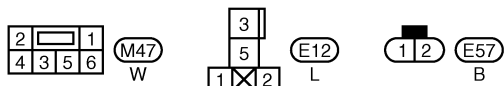
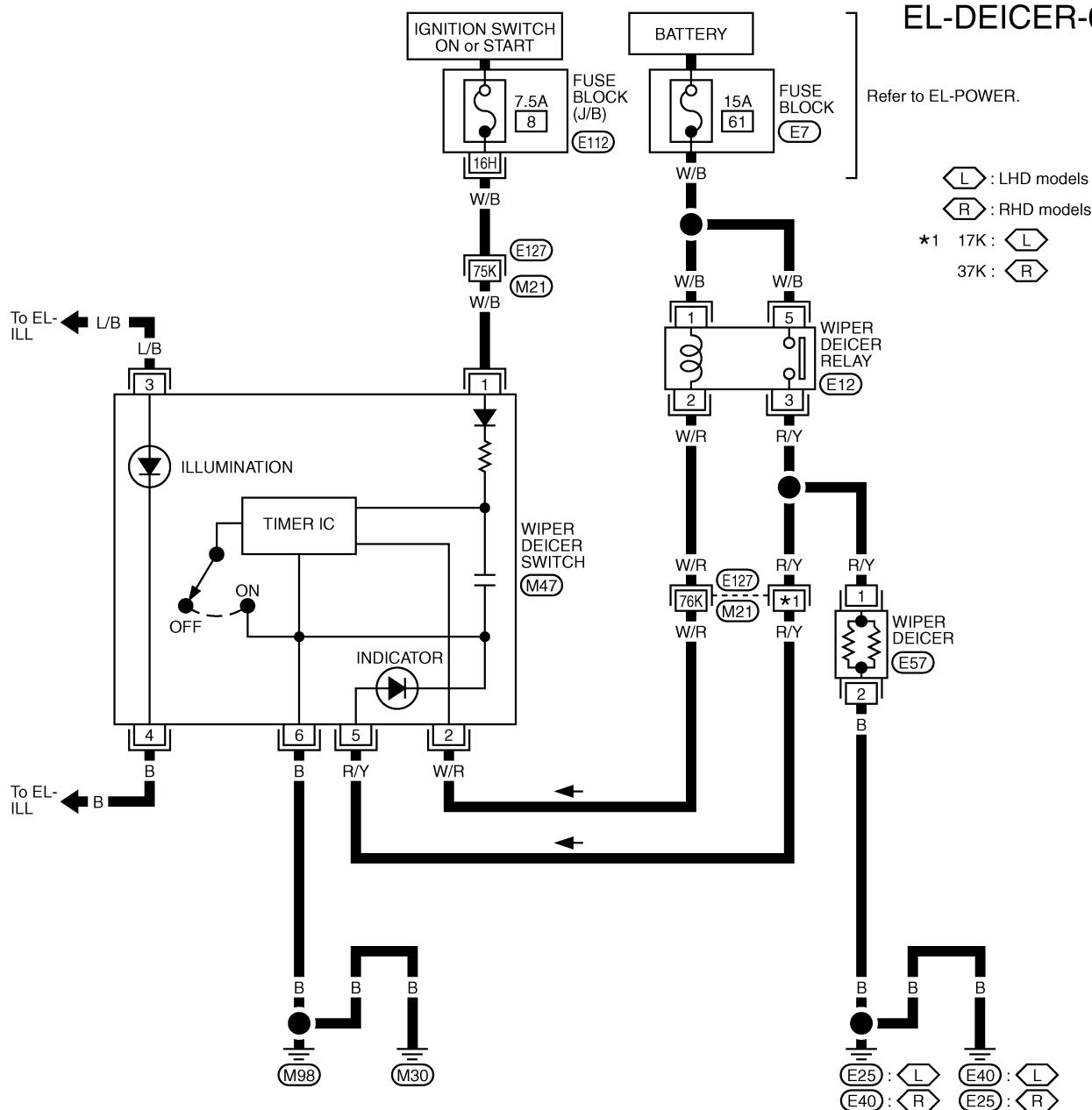
Refer to EL-POWER.

L : LHD models

R : RHD models

*1 17K : L

37K : R



Refer to last page (Foldout page).

M21, E127

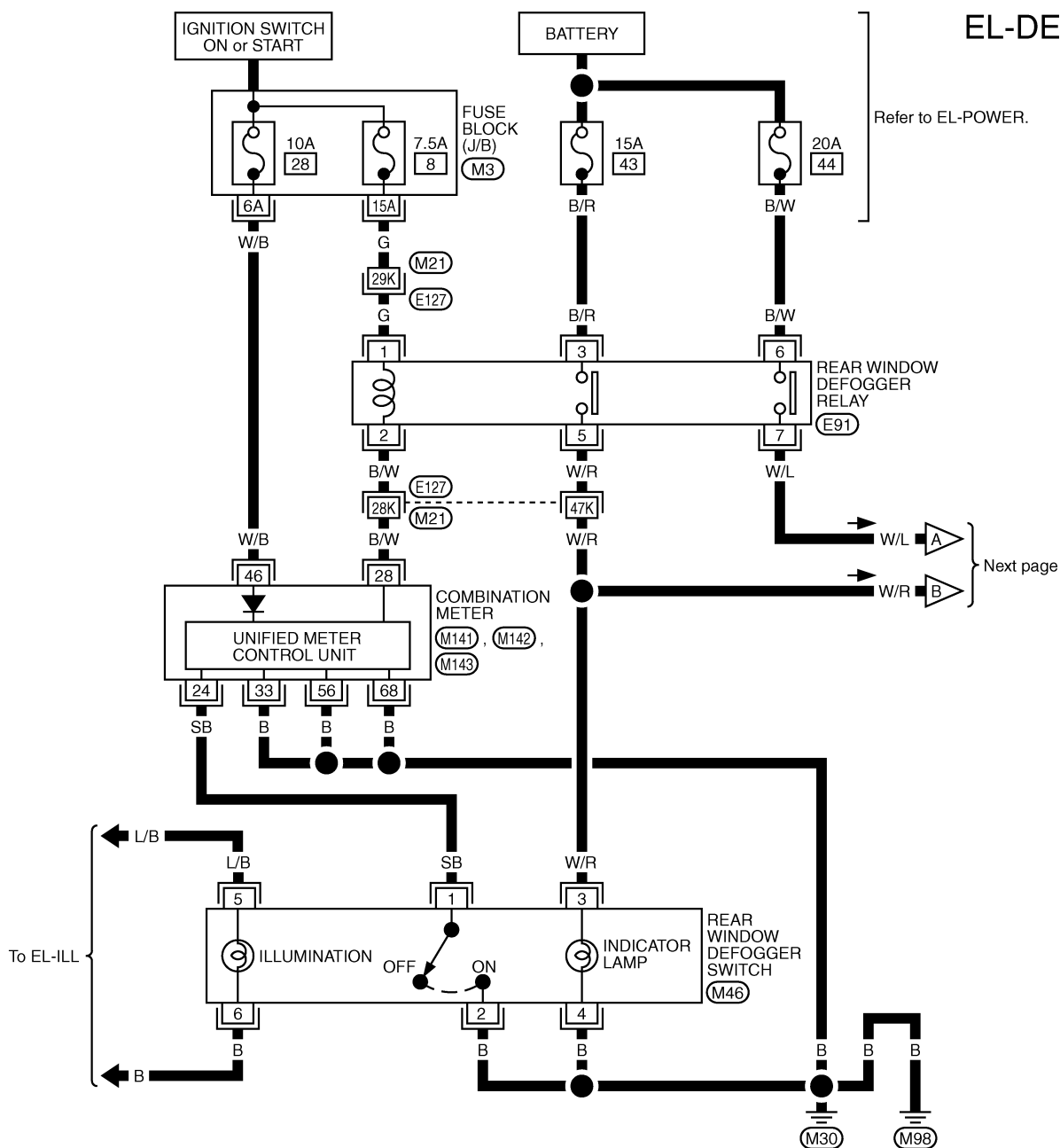
E7

E112

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/LHD Models Without Theft Warning System

EL-DEF-01



2	6	1
4	3	5

(M46)
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

(M141)
W

(M142)
BR

(M143)
BR

(E91)
BR

Refer to last page (Foldout page).

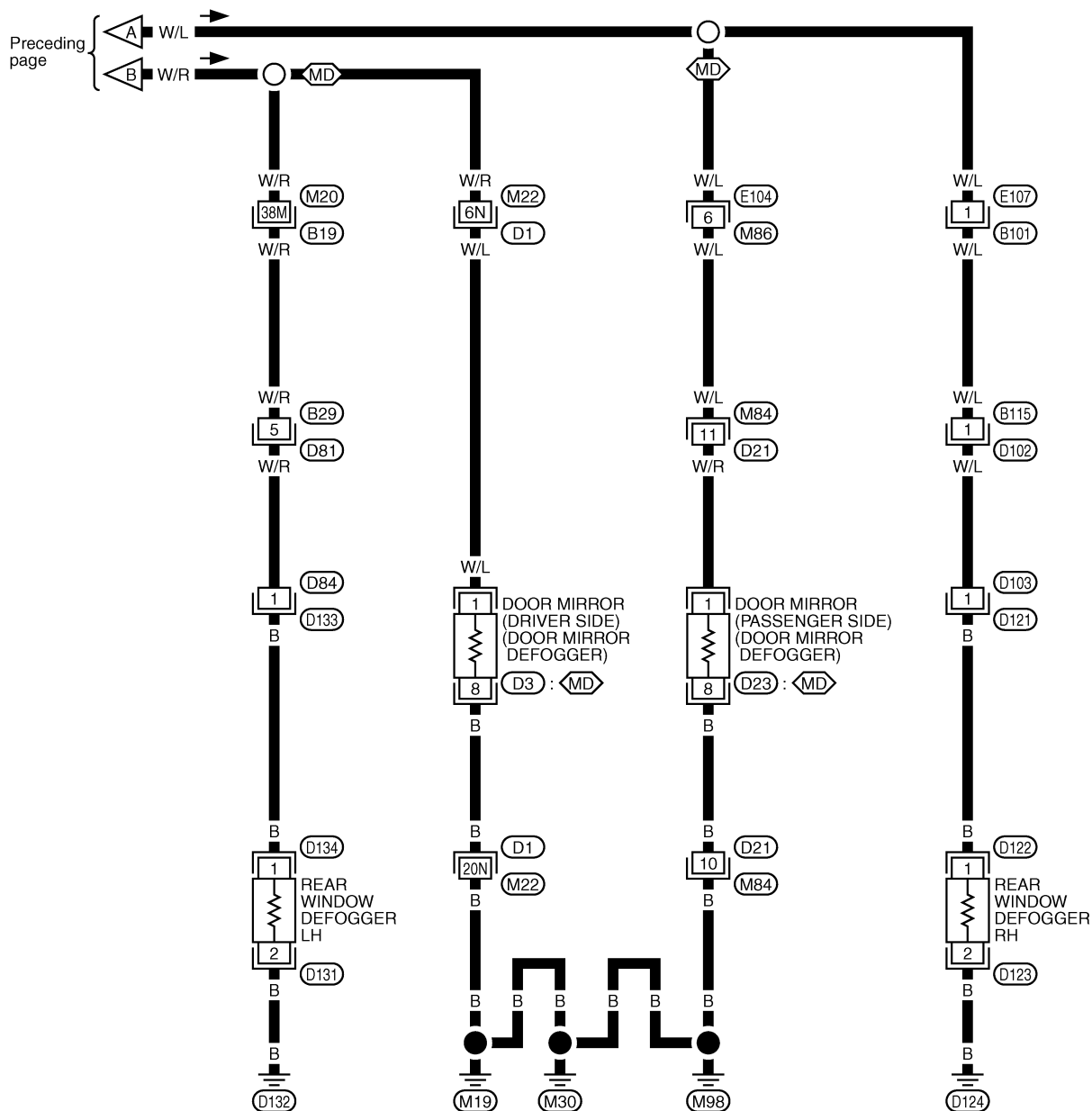
(M21), (E127)
(M3)

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/LHD Models Without Theft Warning System (Cont'd)

EL-DEF-02

MD : With door mirror defogger



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(M84)
W

1	2	3	4	5
6	7	8	9	10

(E104)
W

1
2

(B101)
W

Refer to last page (Foldout page).

(M20), (B19)

(M22), (D1)

1	2	3	4	5	6	7	8

(D3), (D23)
W W

1	2
3	4

(D81)
W

1

(D102), (D121), (D133)
BR BR BR

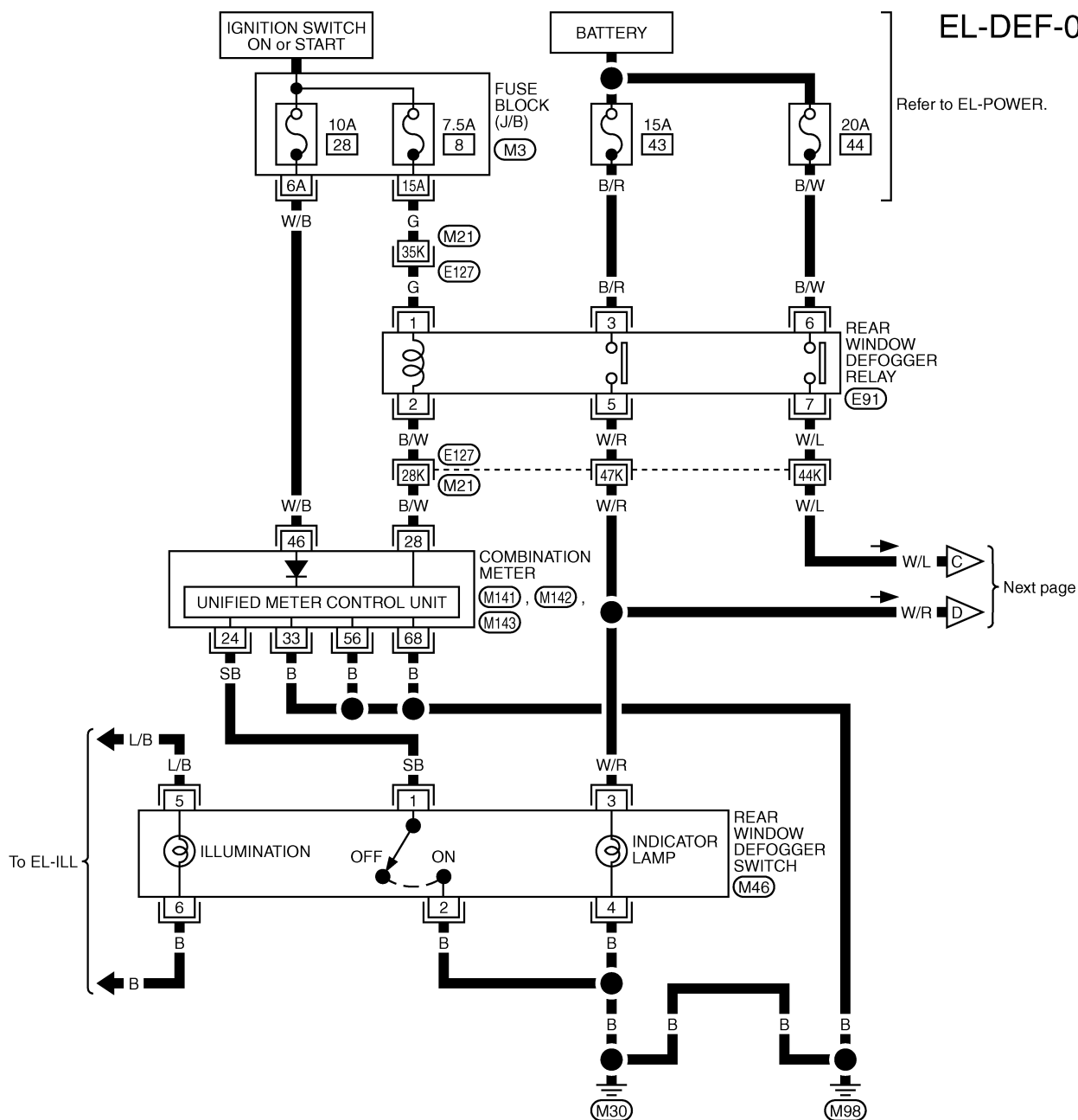
1	(D122), (D134)	2	(D123), (D131)
	B B		B B

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models Except for Europe and With Theft Warning System

EL-DEF-03

Refer to EL-POWER.



2	6	1
4	3	5

(M46)
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

(M141)
W

(M142)
BR

(M143)
BR

(E91)
BR

Refer to last page (Foldout page).

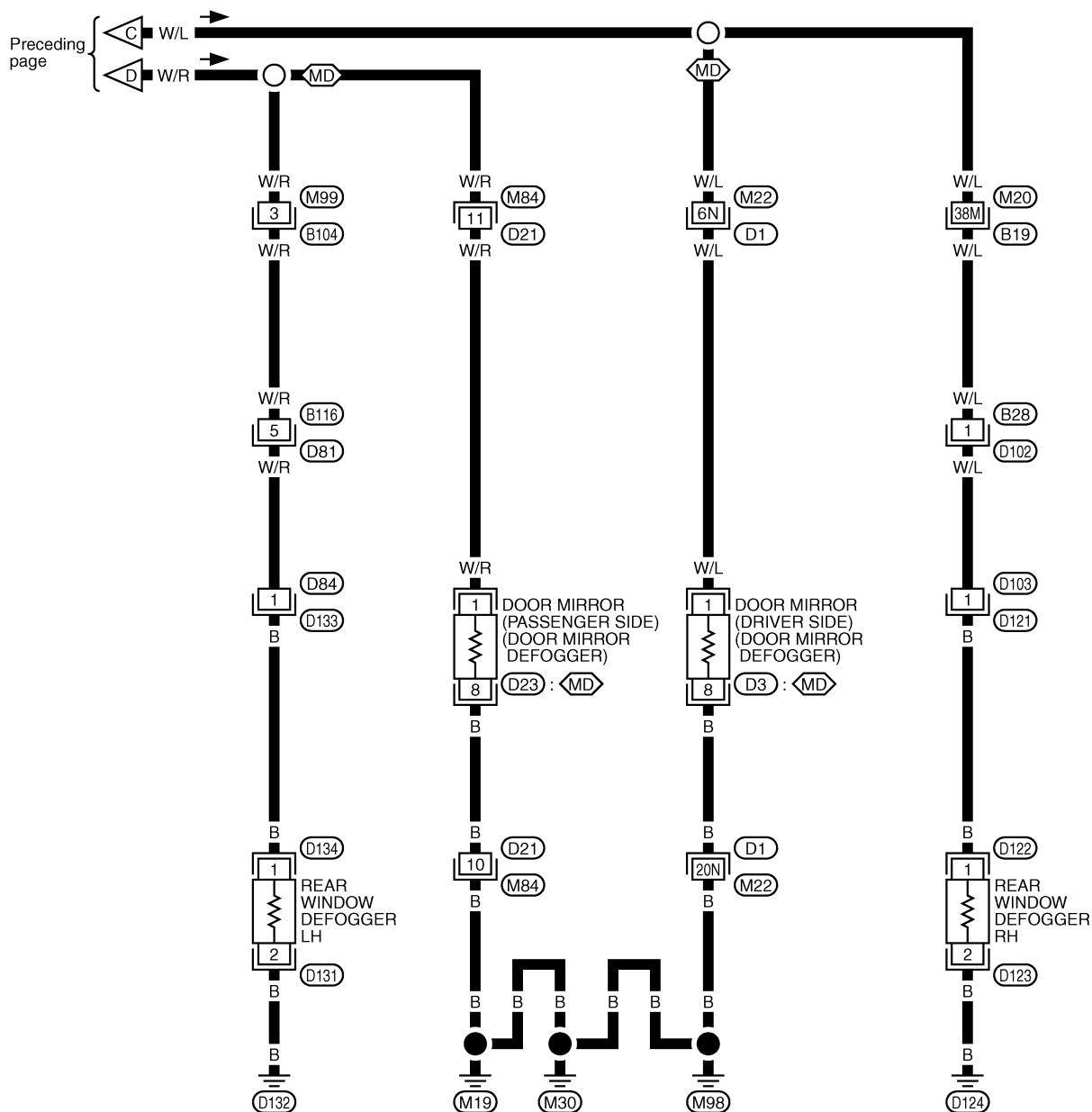
(M21), (E127)
(M3)

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models Except for Europe and With Theft Warning System (Cont'd)

EL-DEF-04

MD : With door mirror defogger



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

M84
W

1	2	3
4	5	6

B104
W

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

D3
W

D23
W

1	2	3	4	5	6
---	---	---	---	---	---

D81
W

1

D102
BR

D121
BR

D133
BR

1	D122	D134	2	D123	D131
	B	B		B	B

Refer to last page (Foldout page).

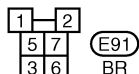
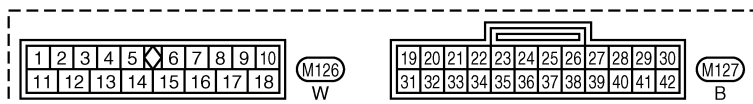
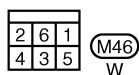
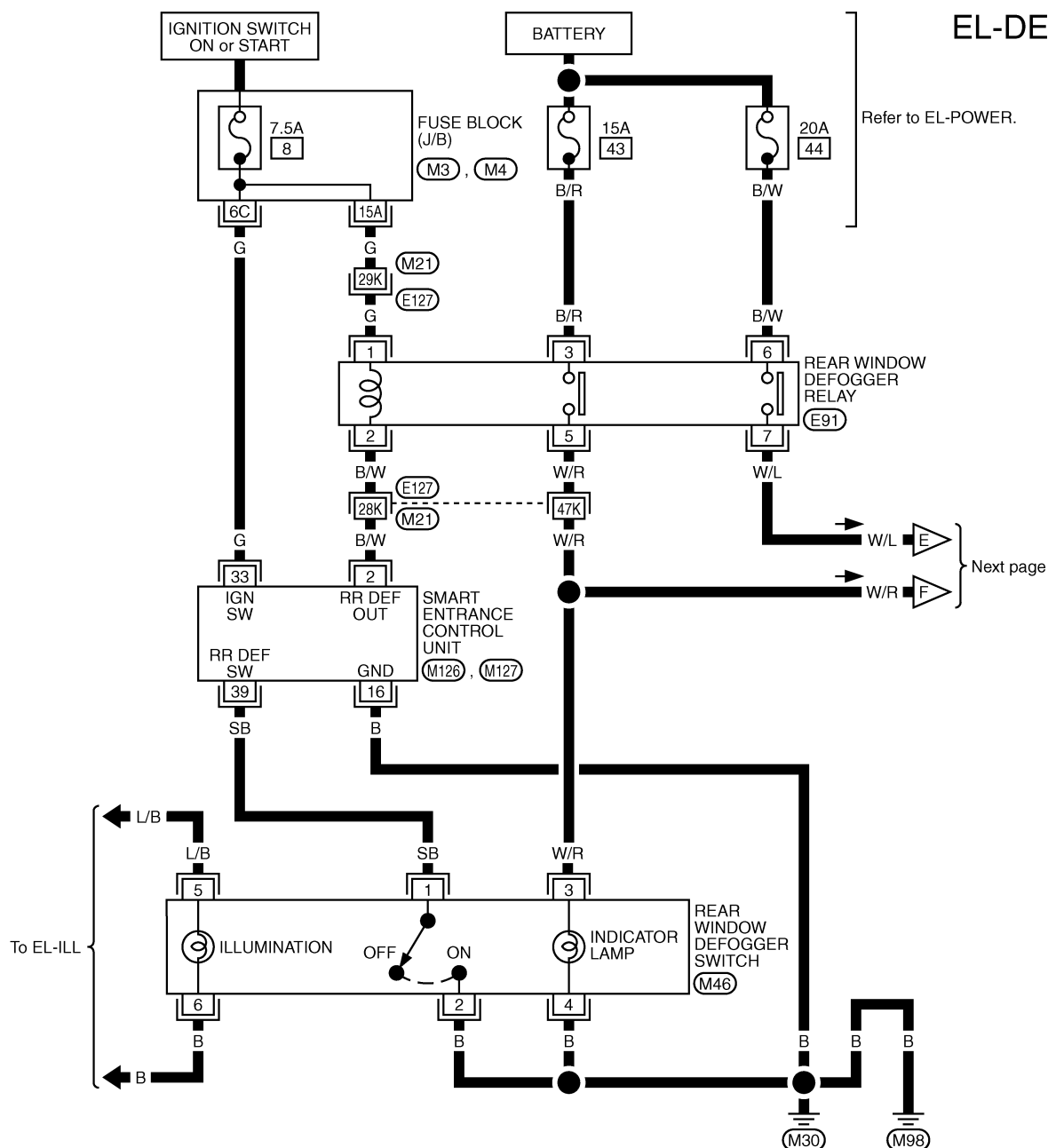
M20, B19

M22, D1

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/LHD Models With Theft Warning System

EL-DEF-05



Refer to last page (Foldout page).

M21, E127

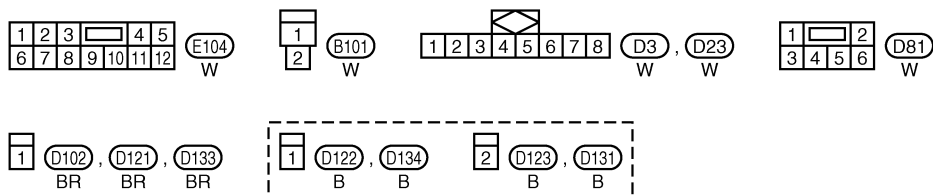
M3

M4



Wiring Diagram — DEF —/LHD Models With Theft Warning System (Cont'd)

 : With door mirror defogger

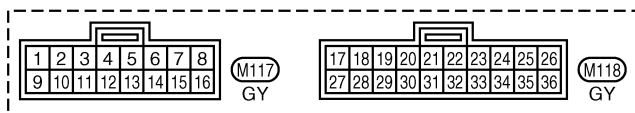
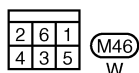
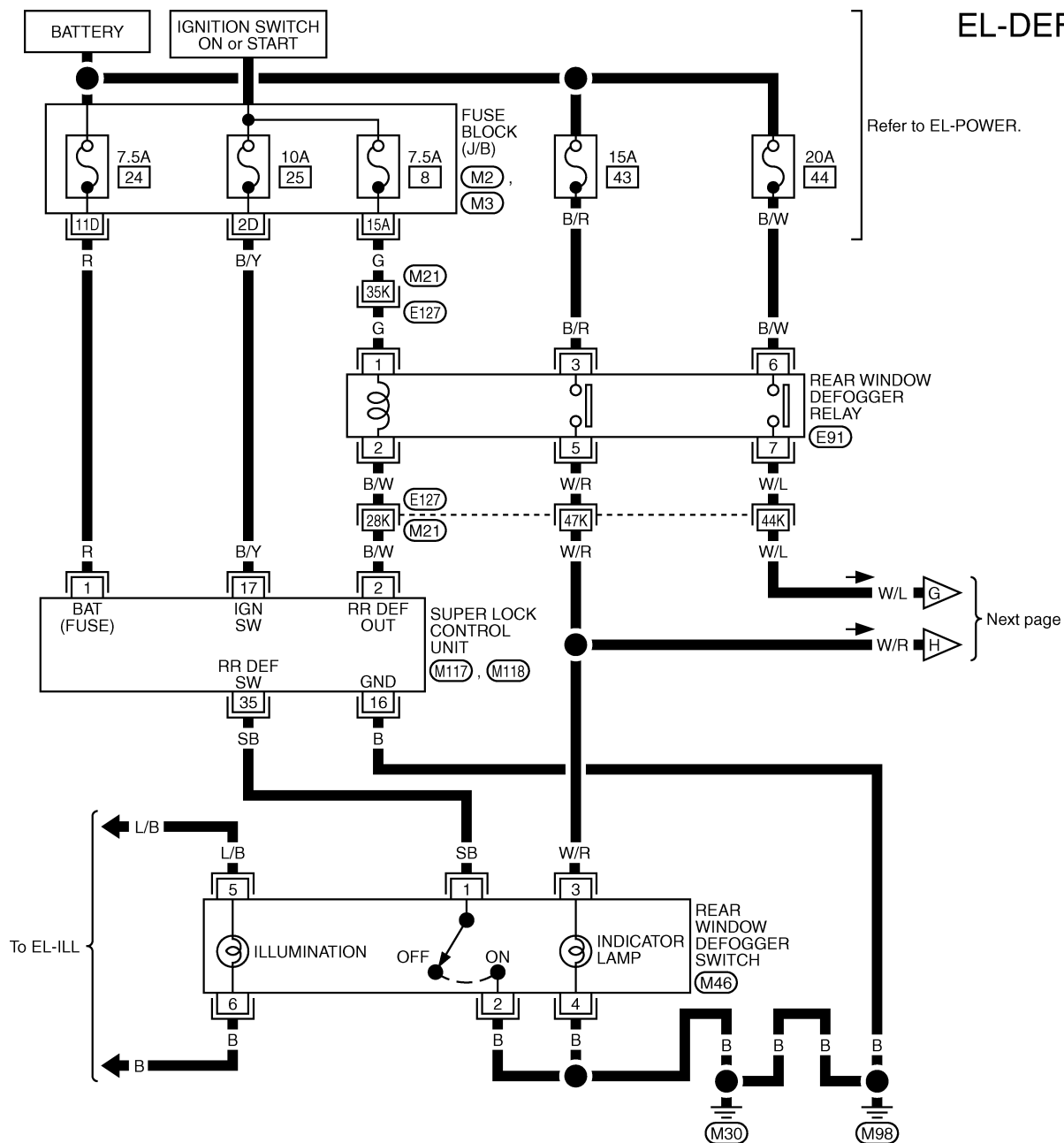


(M20), (B19)
(M22), (D1)
(M175), (D29)

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models for Europe

EL-DEF-07

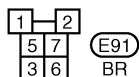


Refer to last page (Foldout page).

(M21), (E127)

(M2)

(M3)

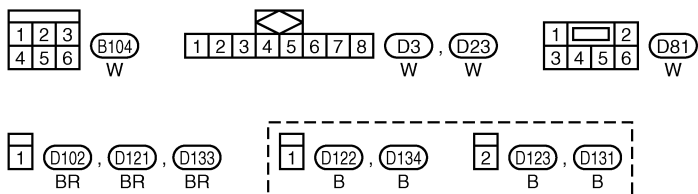
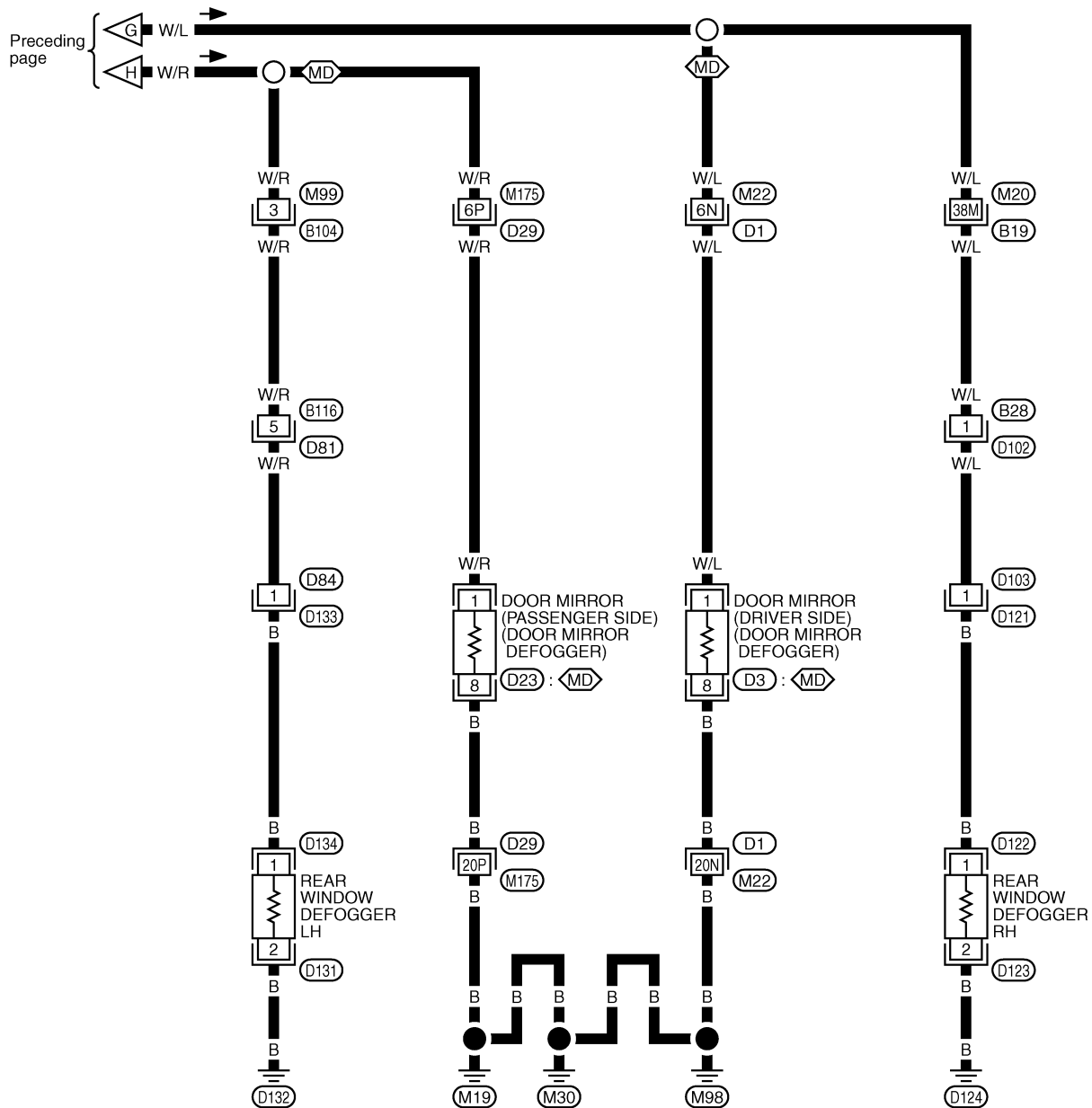


REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models for Europe (Cont'd)

EL-DEF-08

MD : With door mirror defogger



Refer to last page (Foldout page).

M20, B19

M22, D1

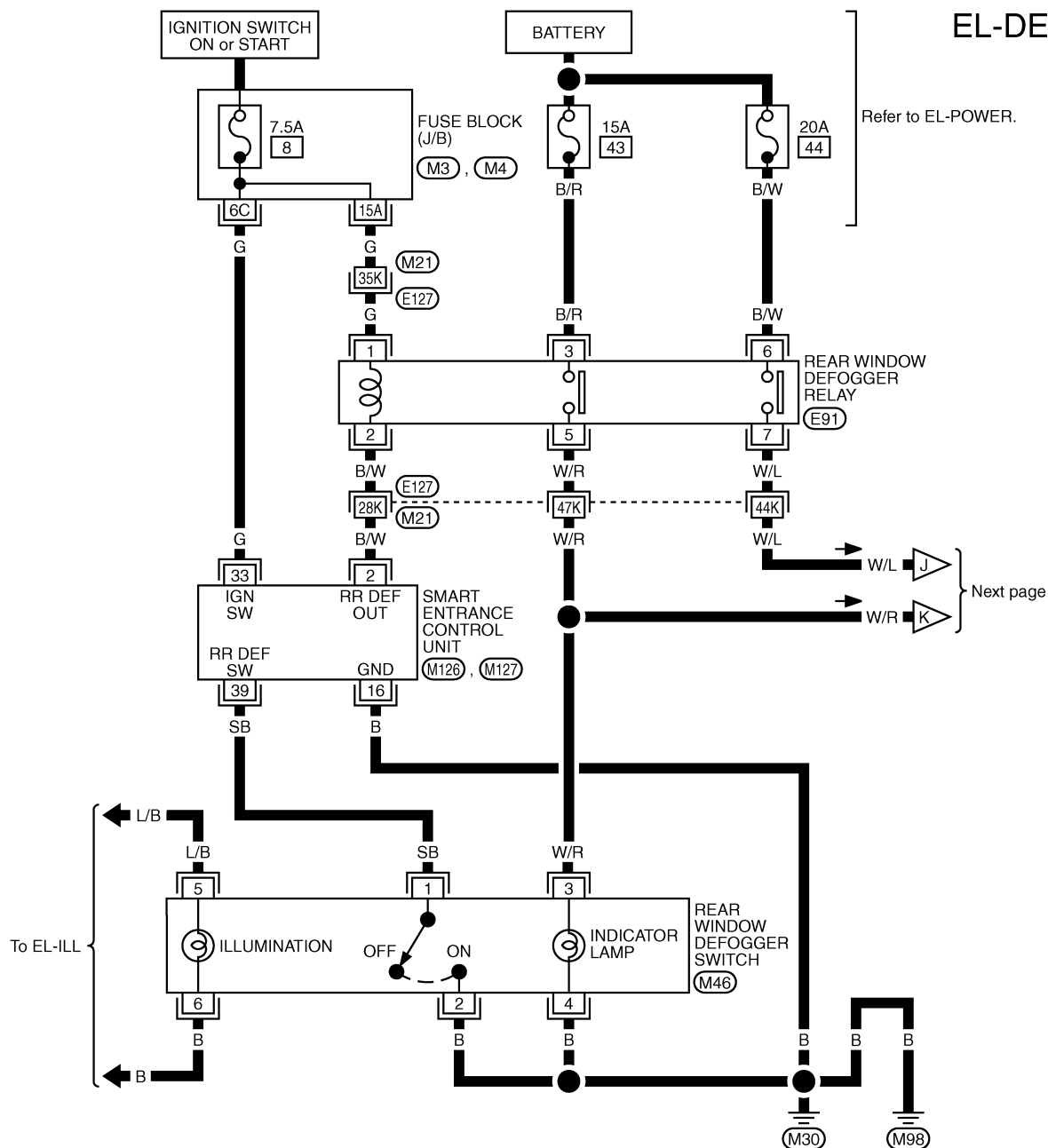
M175, D29

TEL047N

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models With Theft Warning System

EL-DEF-09



2	6	1
4	3	5

M46
W

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

M126
W

19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

M127
B

1	2
5	7
3	6

E91
BR

Refer to last page (Foldout page).

M21, E127

M3

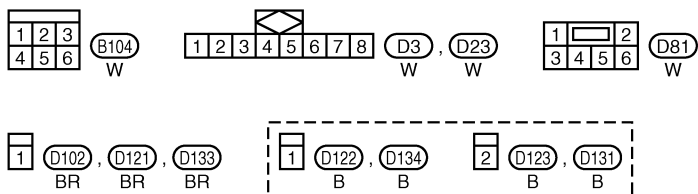
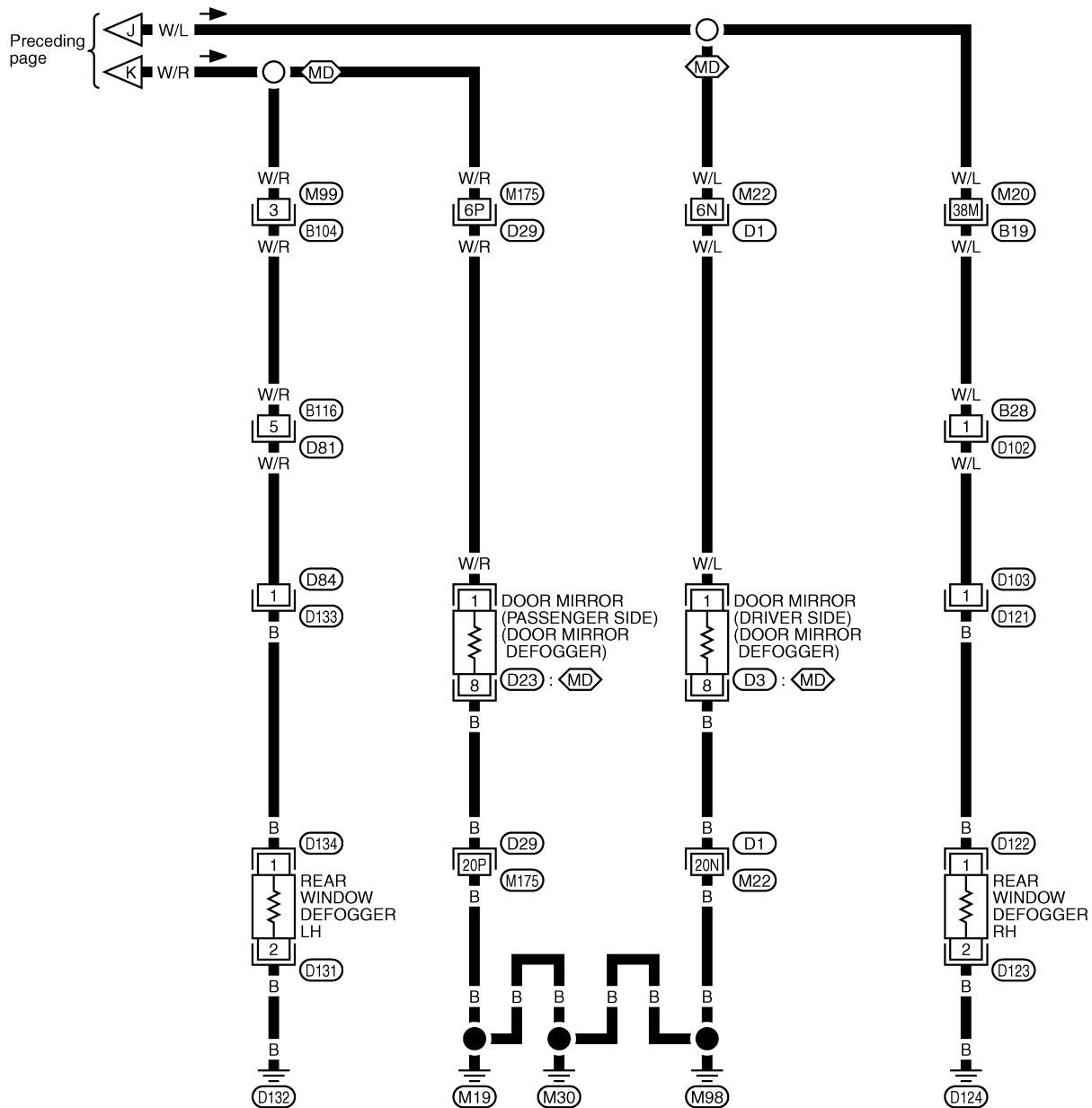
M4

REAR WINDOW DEFOGGER/WAGON AND HARDTOP MODELS

Wiring Diagram — DEF —/RHD Models With Theft Warning System (Cont'd)

EL-DEF-10

MD : With door mirror defogger



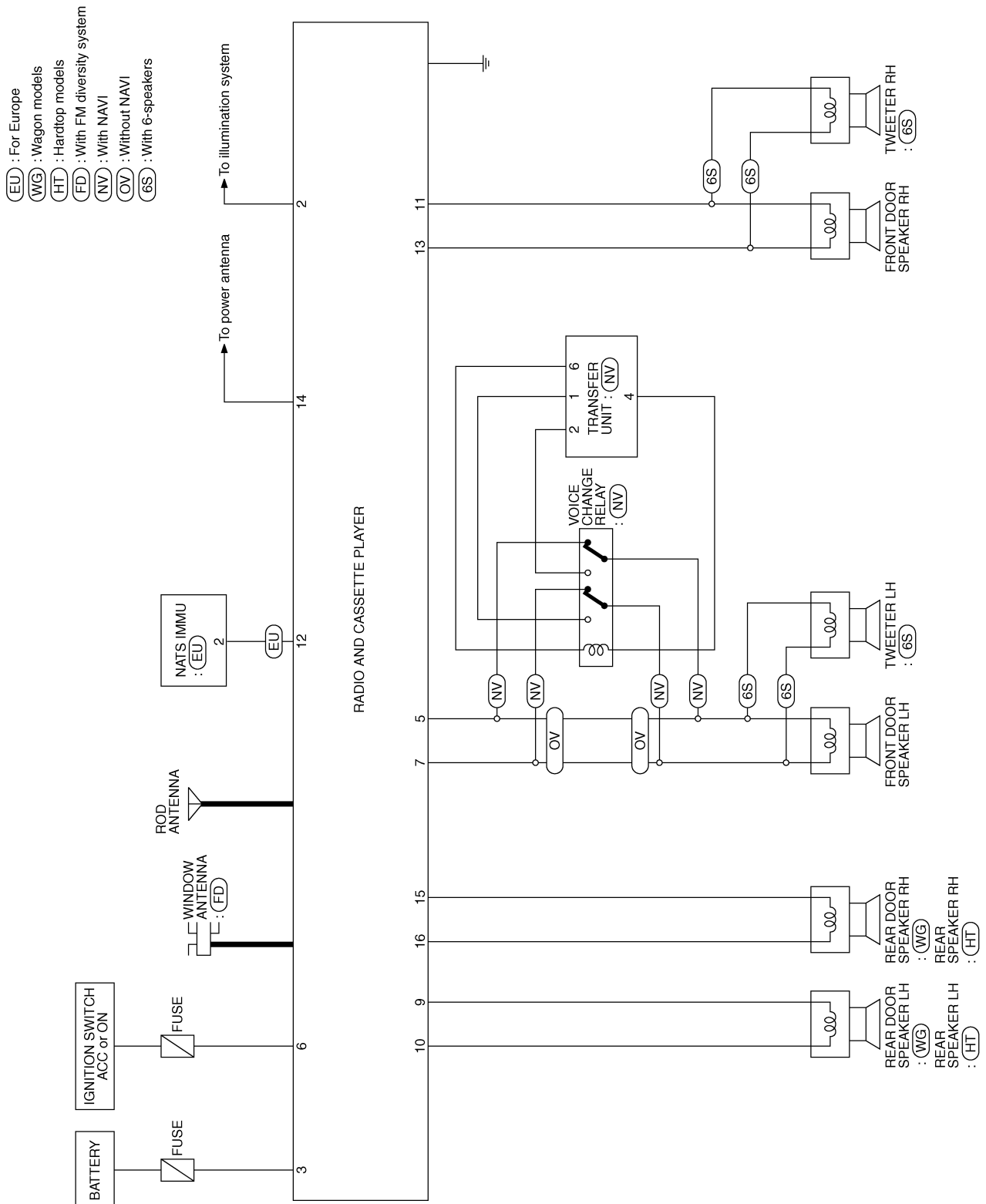
Refer to last page (Foldout page).

(M20, B19)
(M22, D1)
(M175, D29)

TEL141N

AUDIO/WAGON AND HARDTOP MODELS

Schematic/LHD Models with Sub-harness

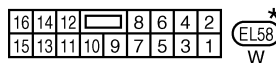
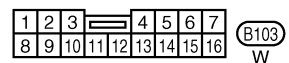
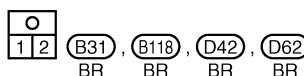
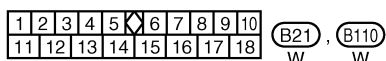
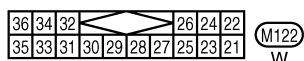
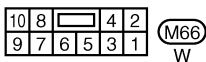
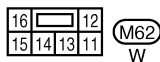
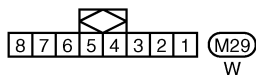
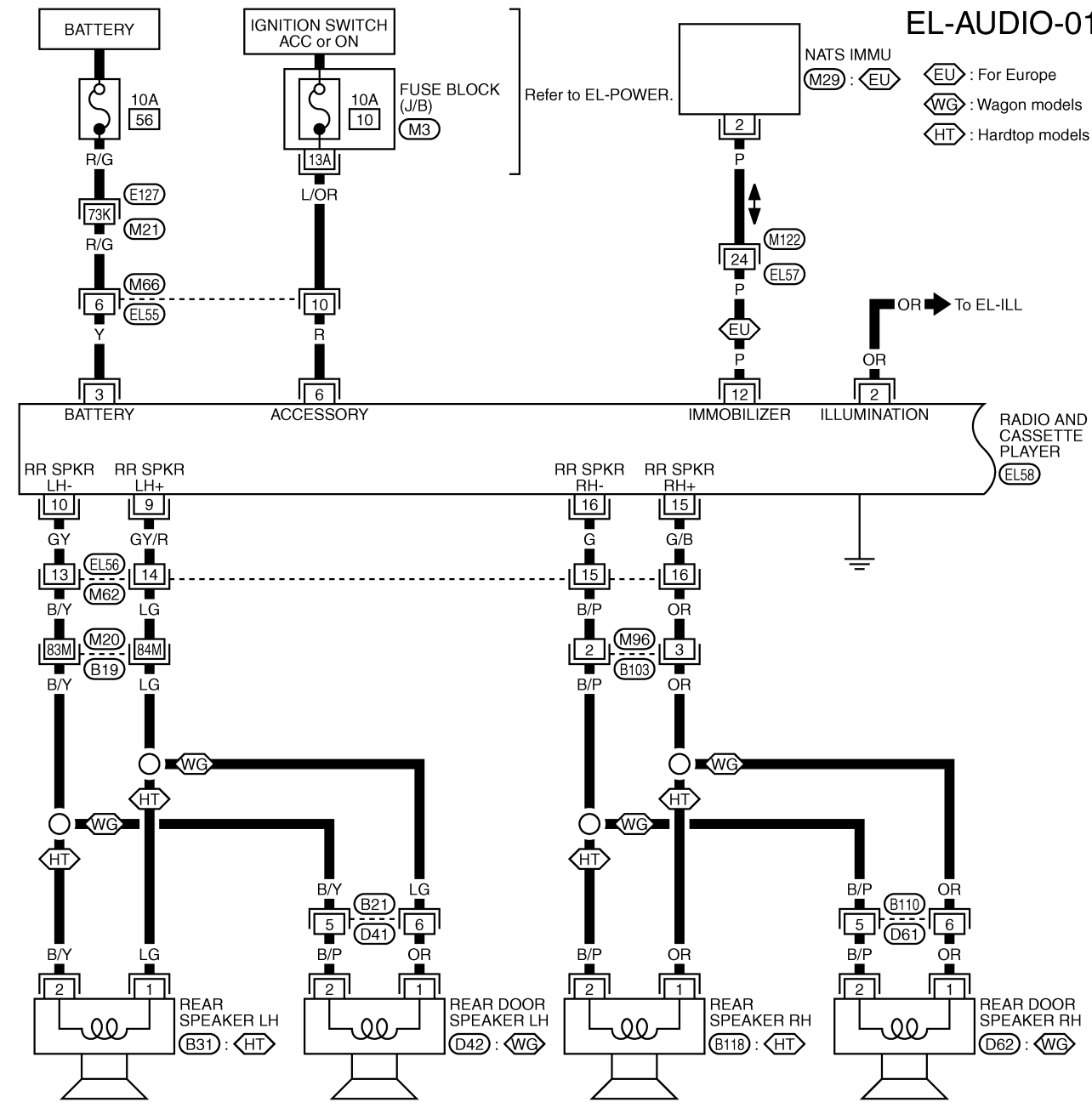


TEL048N

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/LHD Models with Sub-harness

EL-AUDIO-01



Refer to last page (Foldout page).

M20, B19

M21, E127

M3

★: This connector is not shown in "HARNESS LAYOUT", EL section.

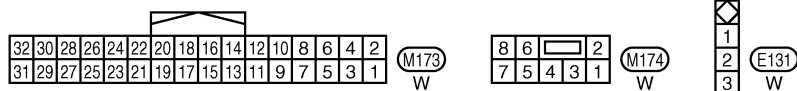
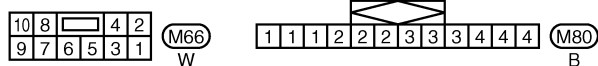
Wiring Diagram — AUDIO —/LHD Models with Sub-harness (Cont'd)



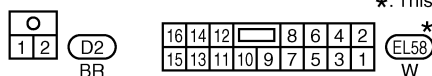
 : With NAVI

OV : Without NAVI

6S : With 6-speakers



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



Refer to last page (Foldout page).

(M21), (E127)

(M22), (D1)

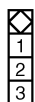
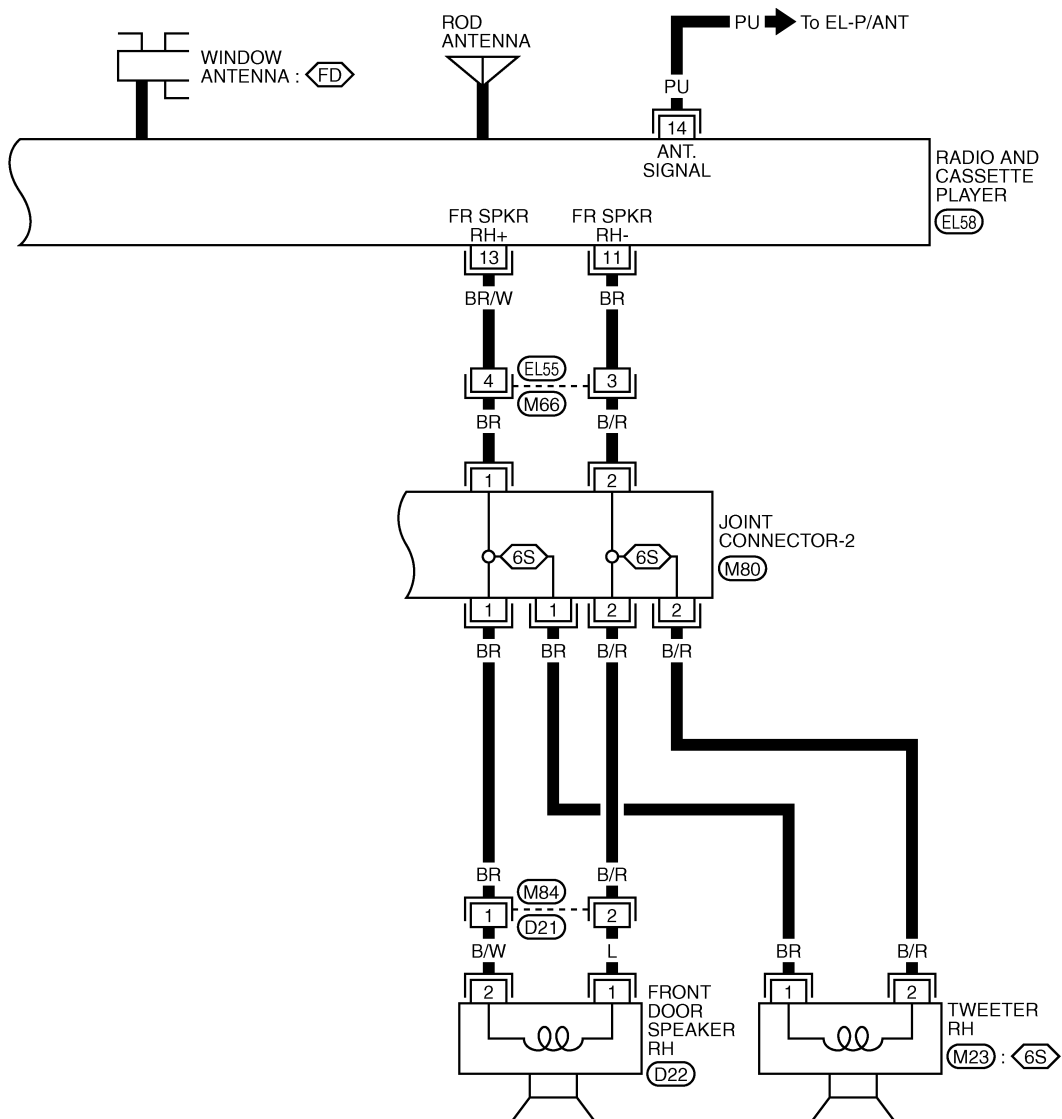
AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/LHD Models with Sub-harness (Cont'd)

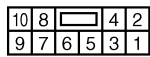
EL-AUDIO-03

◊FD : With FM diversity system

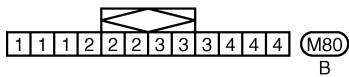
◊6S : With 6-speakers



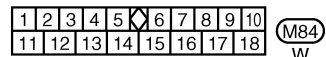
M23 W



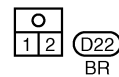
M66 W



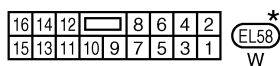
M80 B



M84 W



D22 BR



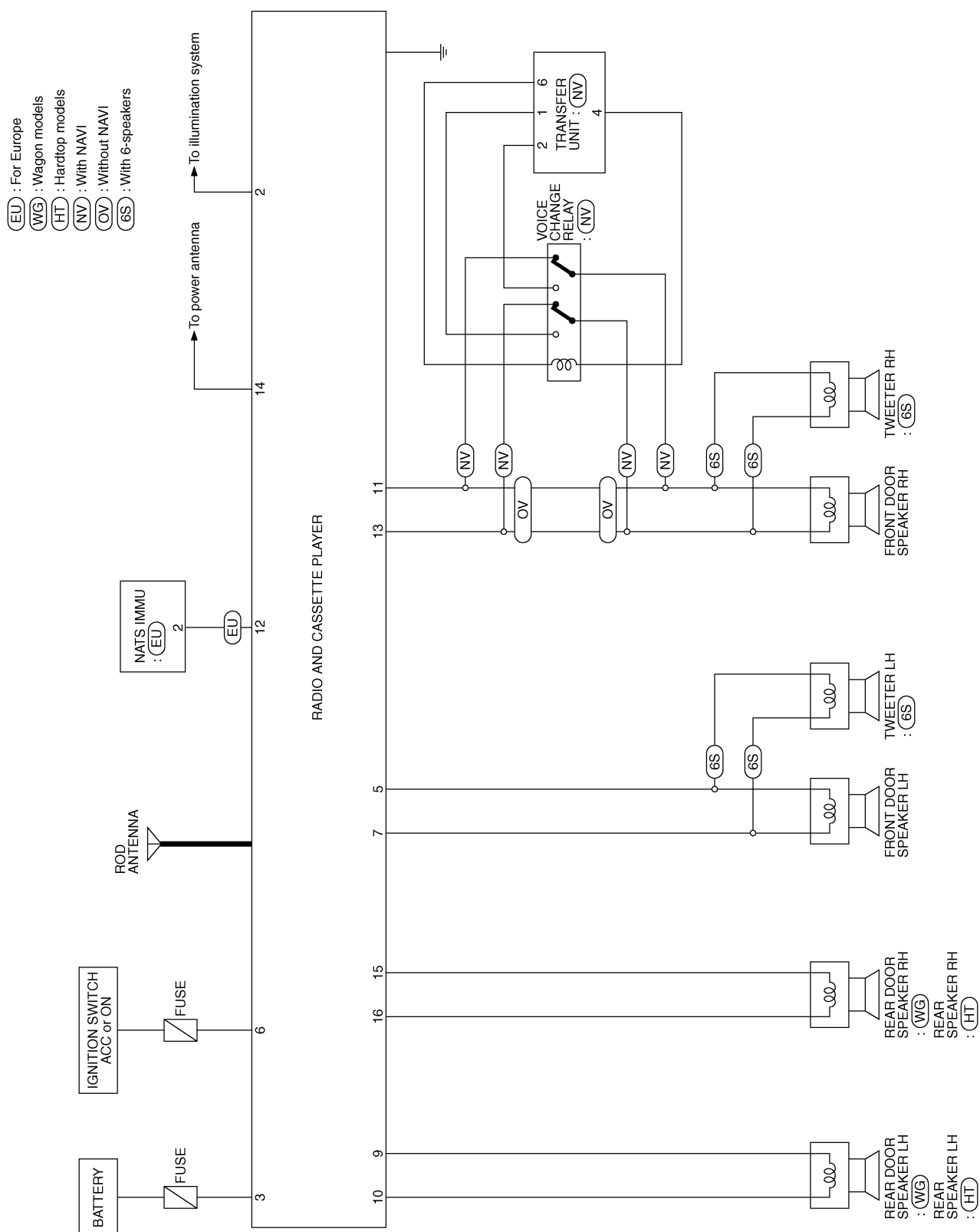
EL58 W

★: This connector is not shown in "HARNESS LAYOUT", EL section.

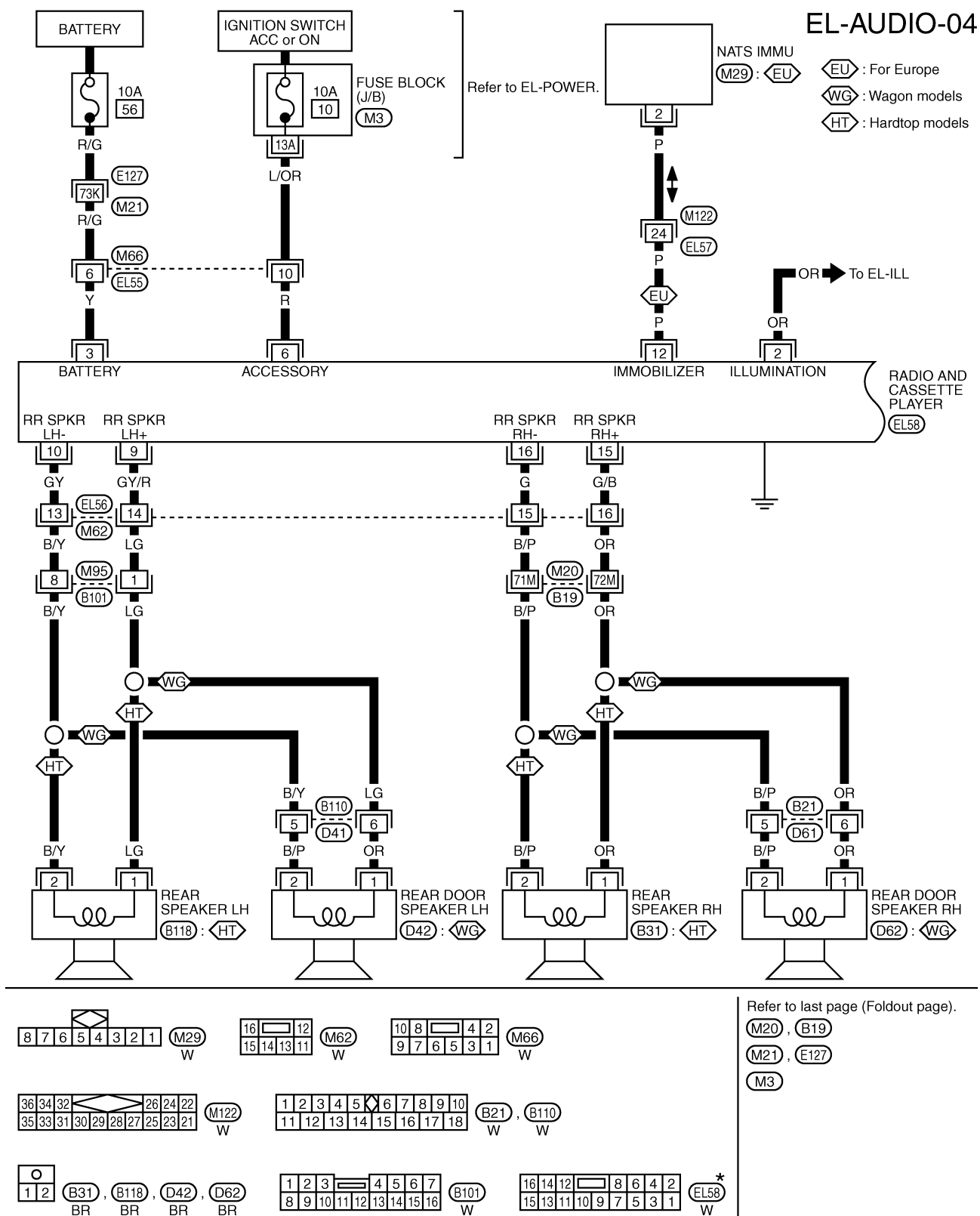
TEL051N

AUDIO/WAGON AND HARDTOP MODELS

Schematic/RHD Models with Sub-harness



TEL053N



Refer to last page (Foldout page).

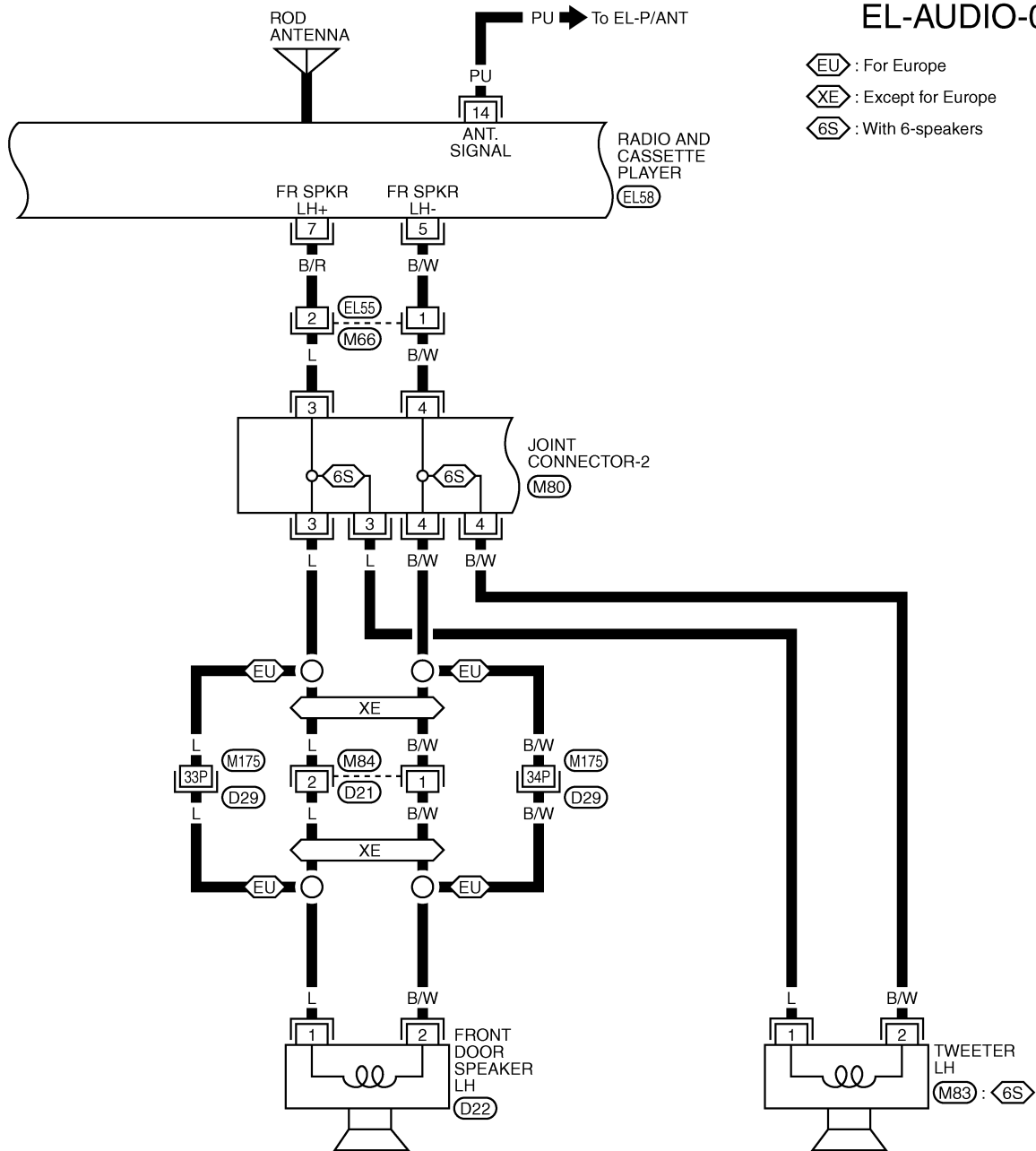
(M21). (E127)

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/RHD Models with Sub-harness (Cont'd)

EL-AUDIO-05

- ⬡EU : For Europe
- ⬡XE : Except for Europe
- ⬡6S : With 6-speakers



10	8	4	2
9	7	6	5

M66
W

1	1	1	2	2	2	3	3	3	4	4
---	---	---	---	---	---	---	---	---	---	---

M80
B

1
2
3

M83
W

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

M84
W

1	2
---	---

D22
BR

16	14	12	8	6	4	2
15	13	11	10	9	7	5

EL58
W

Refer to last page (Foldout page).
M175, D29

★: This connector is not shown in "HARNESS LAYOUT", EL section.

TEL055N

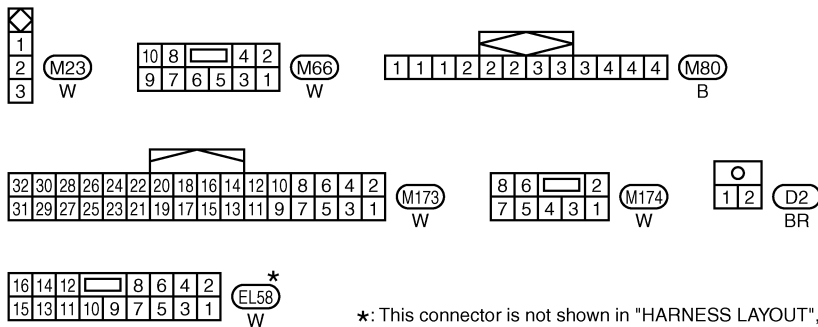
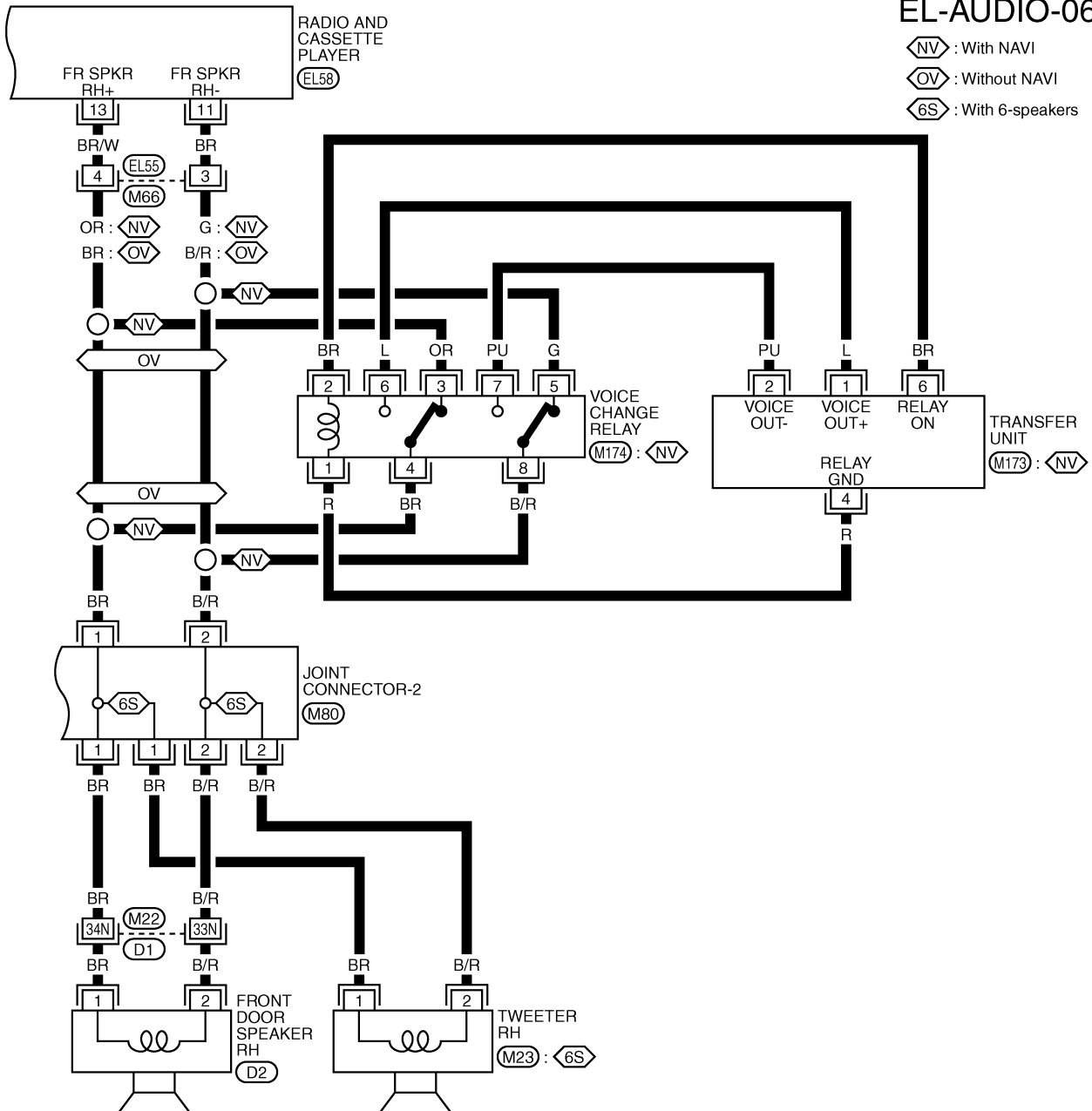
Wiring Diagram — AUDIO —/RHD Models with Sub-harness (Cont'd)

EL-AUDIO-06

NV : With NAVI

OV : Without NAVI

6S : With 6-speakers



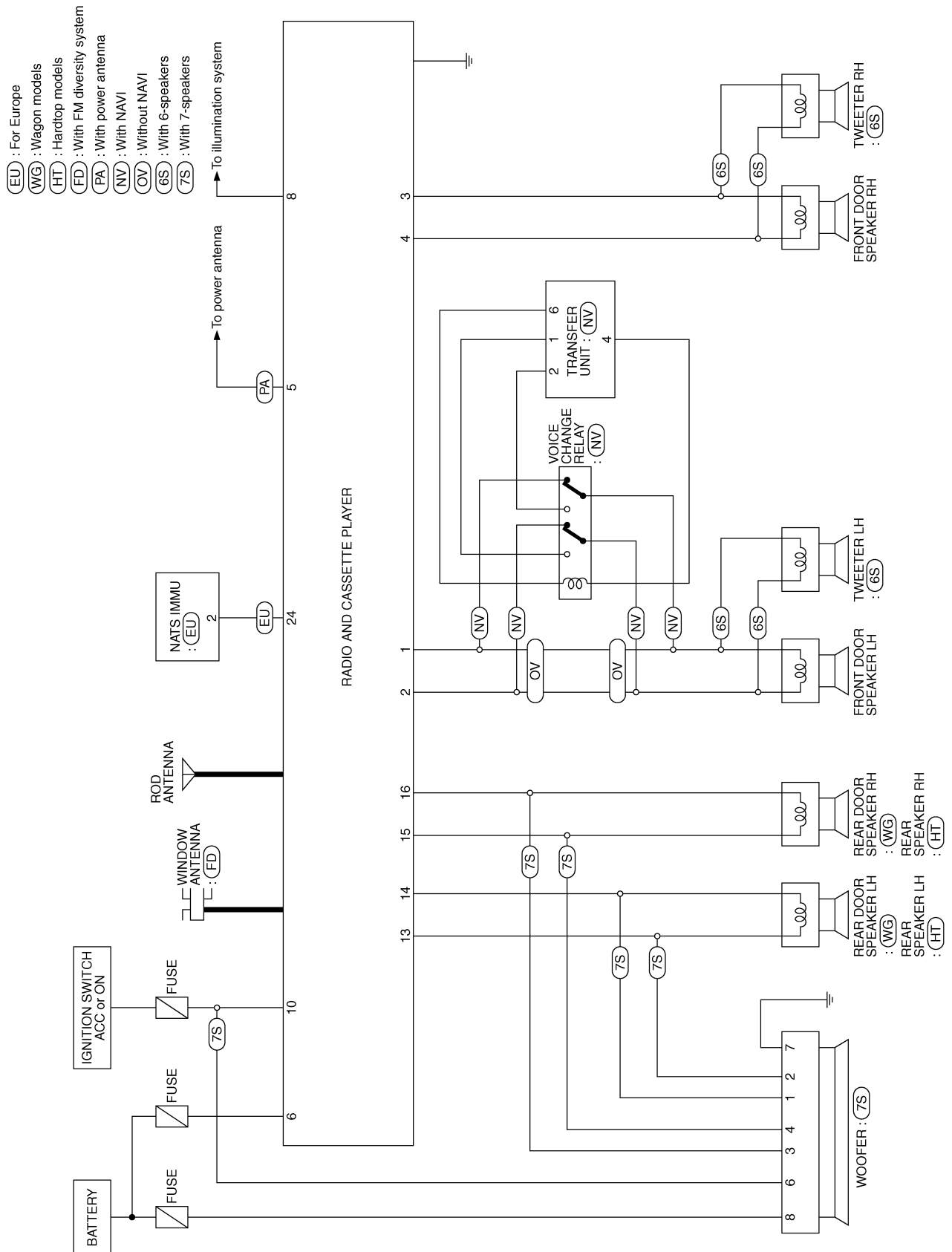
Refer to last page (Foldout page).

(M22), (D1)

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

AUDIO/WAGON AND HARDTOP MODELS

Schematic/LHD Models without Sub-harness



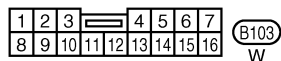
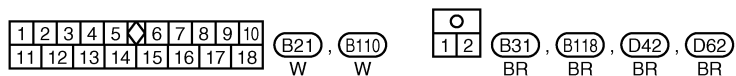
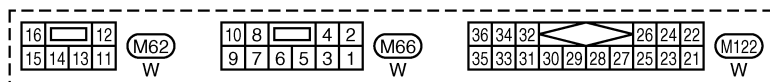
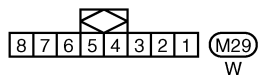
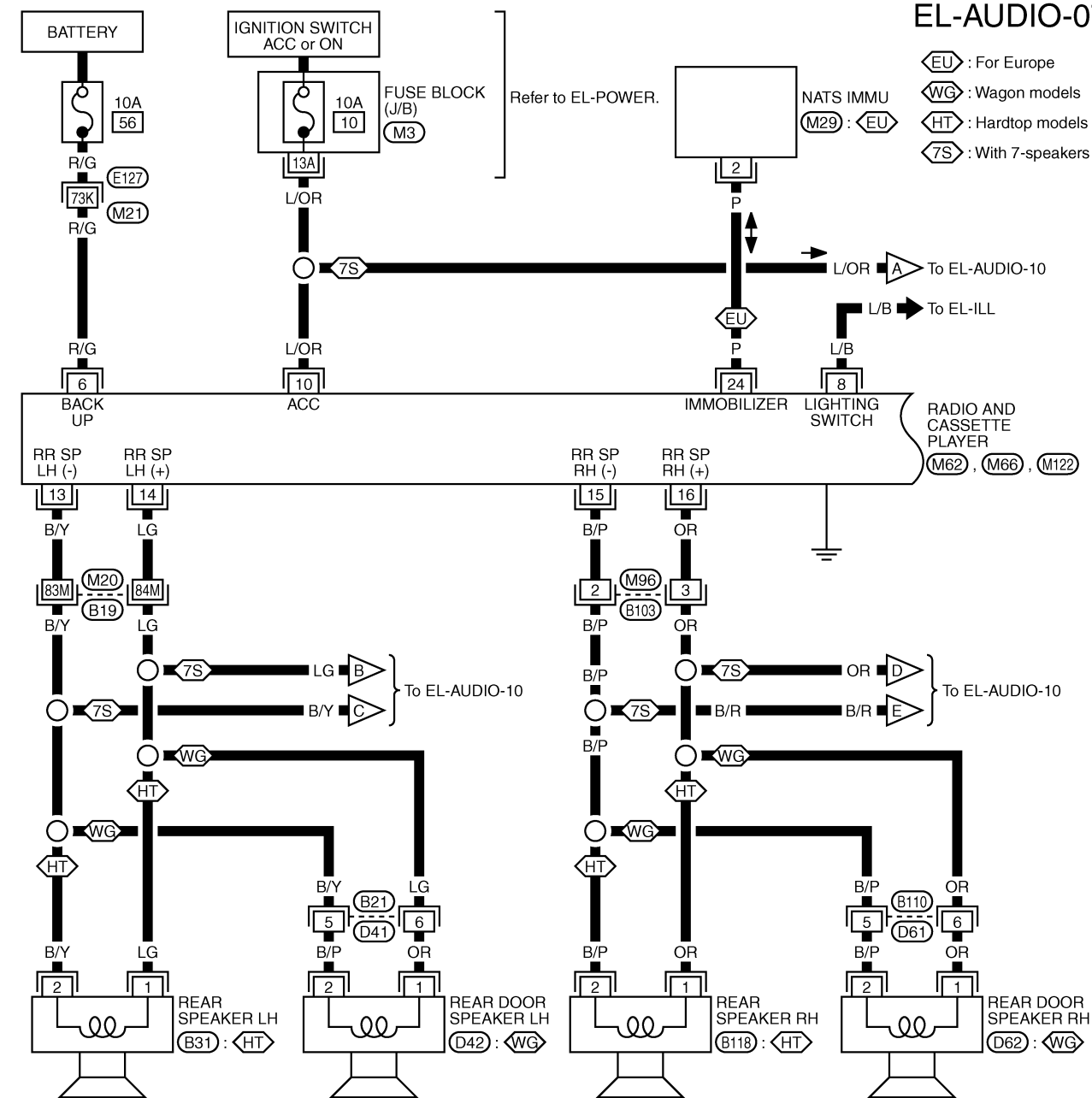
TEL057N

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/LHD Models without Sub-harness

EL-AUDIO-07

- ◊EU : For Europe
- ◊WG : Wagon models
- ◊HT : Hardtop models
- ◊7S : With 7-speakers



Refer to last page (Foldout page).

M20, B19

M21, E127

M3

AUDIO/WAGON AND HARDTOP MODELS

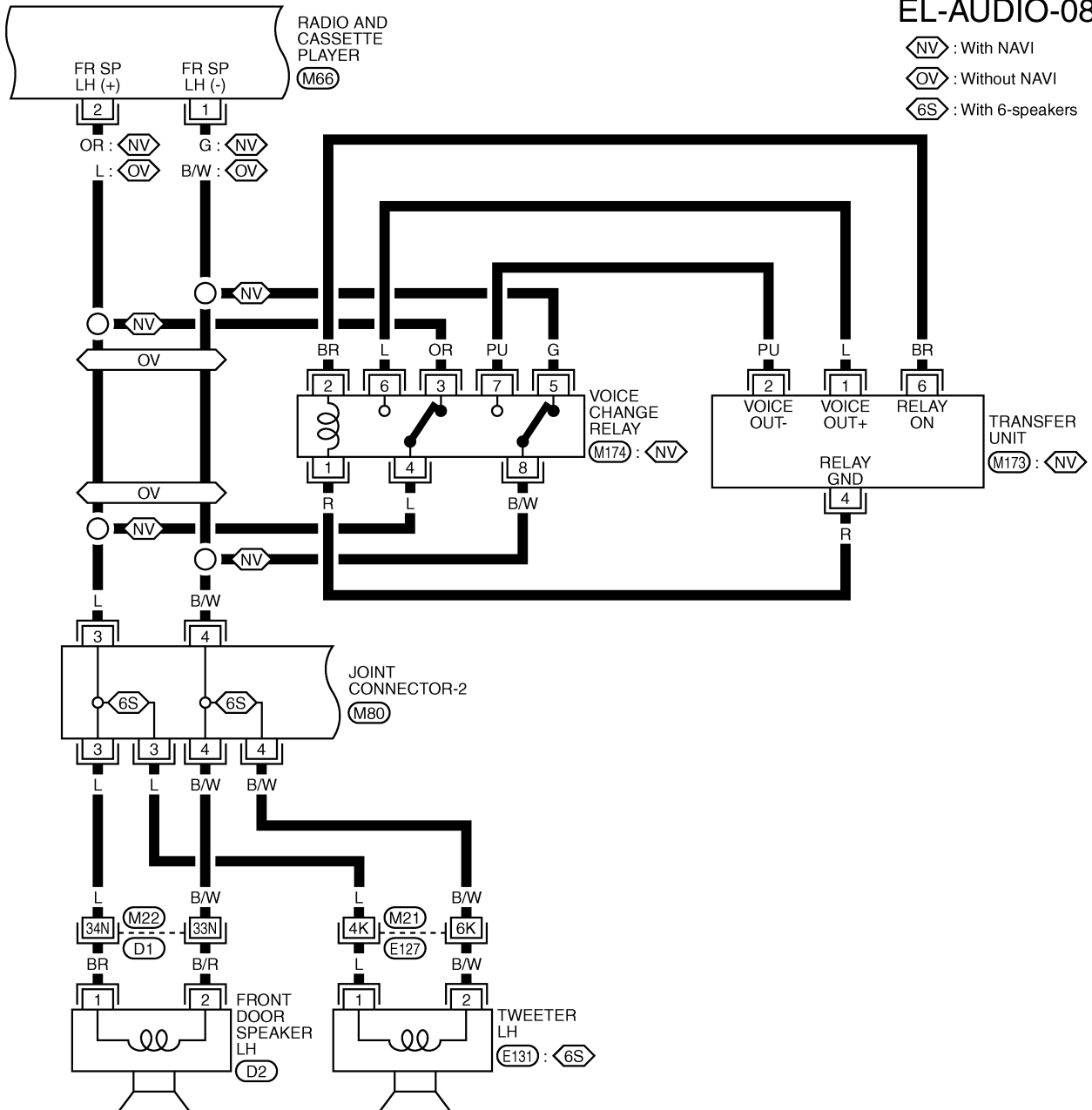
Wiring Diagram — AUDIO —/LHD Models without Sub-harness (Cont'd)

EL-AUDIO-08

: With NAVI

: Without NAVI

: With 6-speakers



10	8	4	2
9	7	6	5

(M66)
W

1	1	1	2	2	2	3	3	3	4	4	4
---	---	---	---	---	---	---	---	---	---	---	---

(M80)
B

32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1

(M173)
W

8	6	2
7	5	4

(M174)
W

1
2
3

(E131)
W

1	2
---	---

(D2)
BR

Refer to last page (Foldout page).

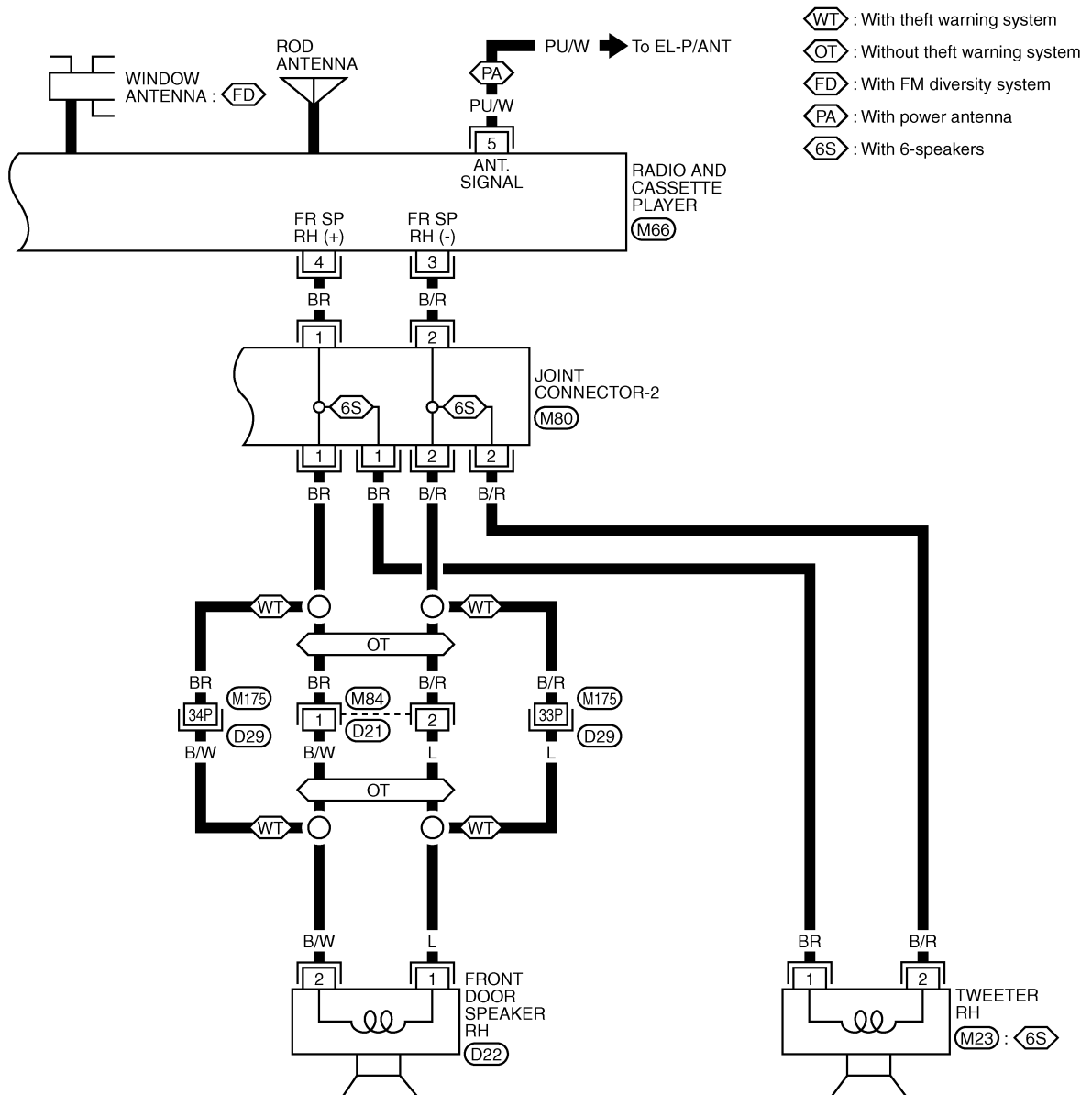
(M21) , (E127)

(M22) , (D1)

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/LHD Models without Sub-harness (Cont'd)

EL-AUDIO-09



1
2
3

(M23) W

10	8	4	2
9	7	6	5

(M66) W

1	1	1	2	2	2	3	3	3	4	4	4
---	---	---	---	---	---	---	---	---	---	---	---

(M80) B

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(M84) W

1	2
---	---

(D22) BR

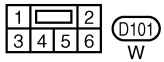
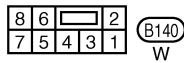
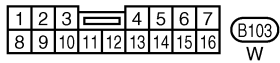
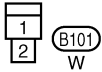
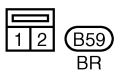
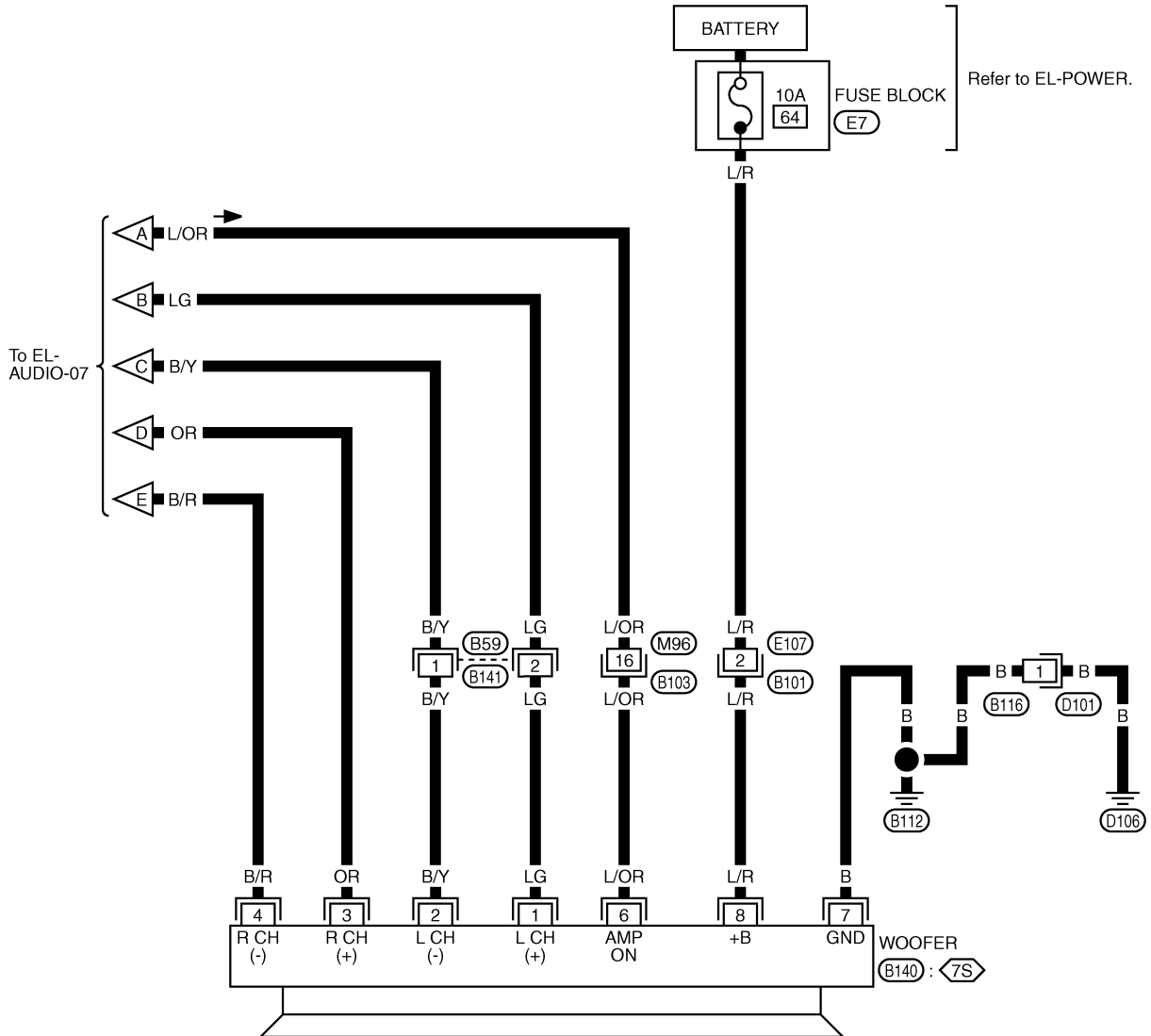
Refer to last page (Foldout page).
(M175), (D29)

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/LHD Models without Sub-harness (Cont'd)

EL-AUDIO-10

◻7S◻ : With 7-speakers



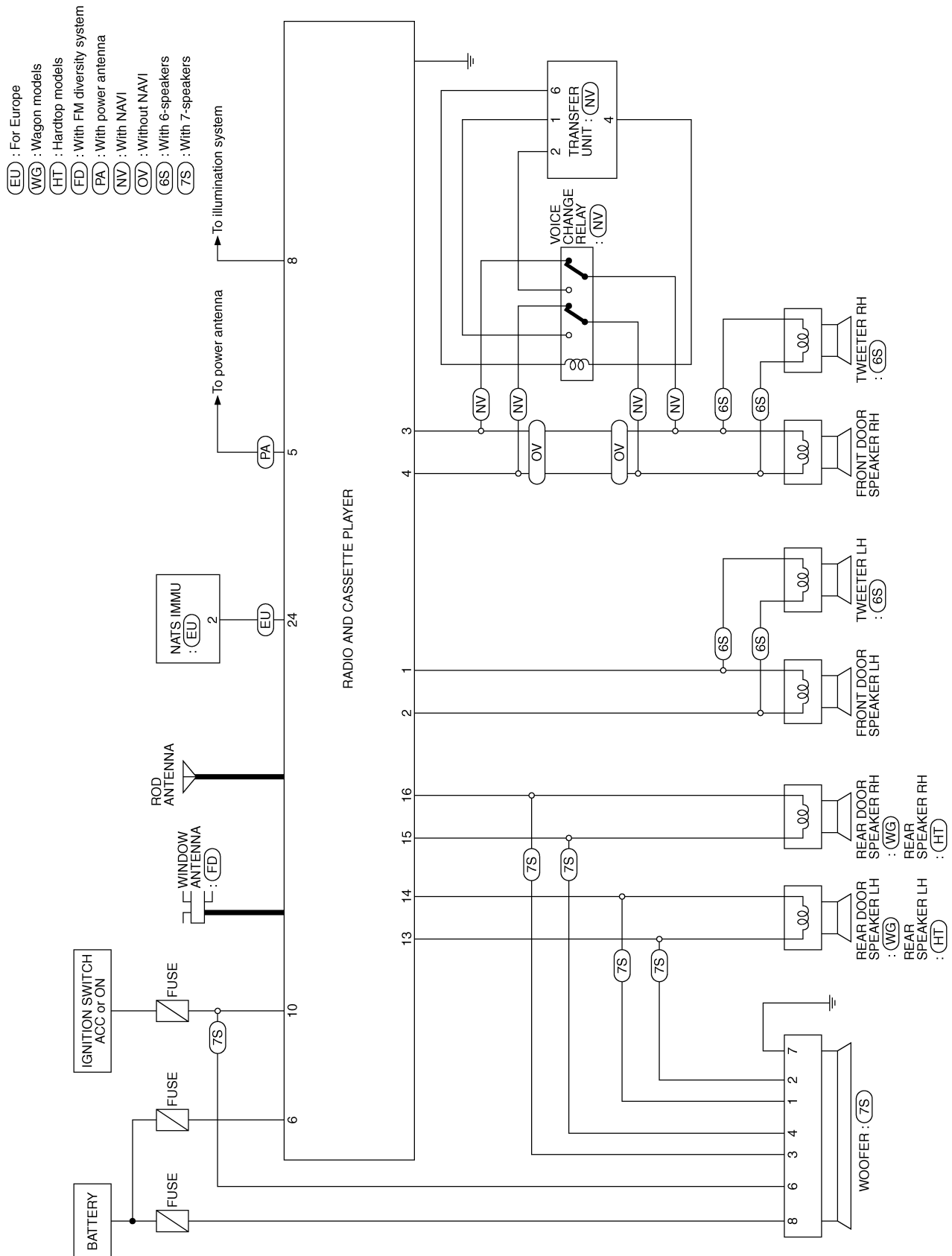
Refer to last page (Foldout page).

E7

TEL061N

AUDIO/WAGON AND HARDTOP MODELS

Schematic/RHD Models without Sub-harness



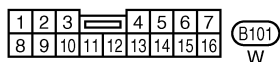
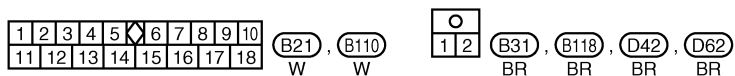
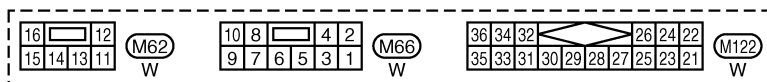
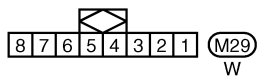
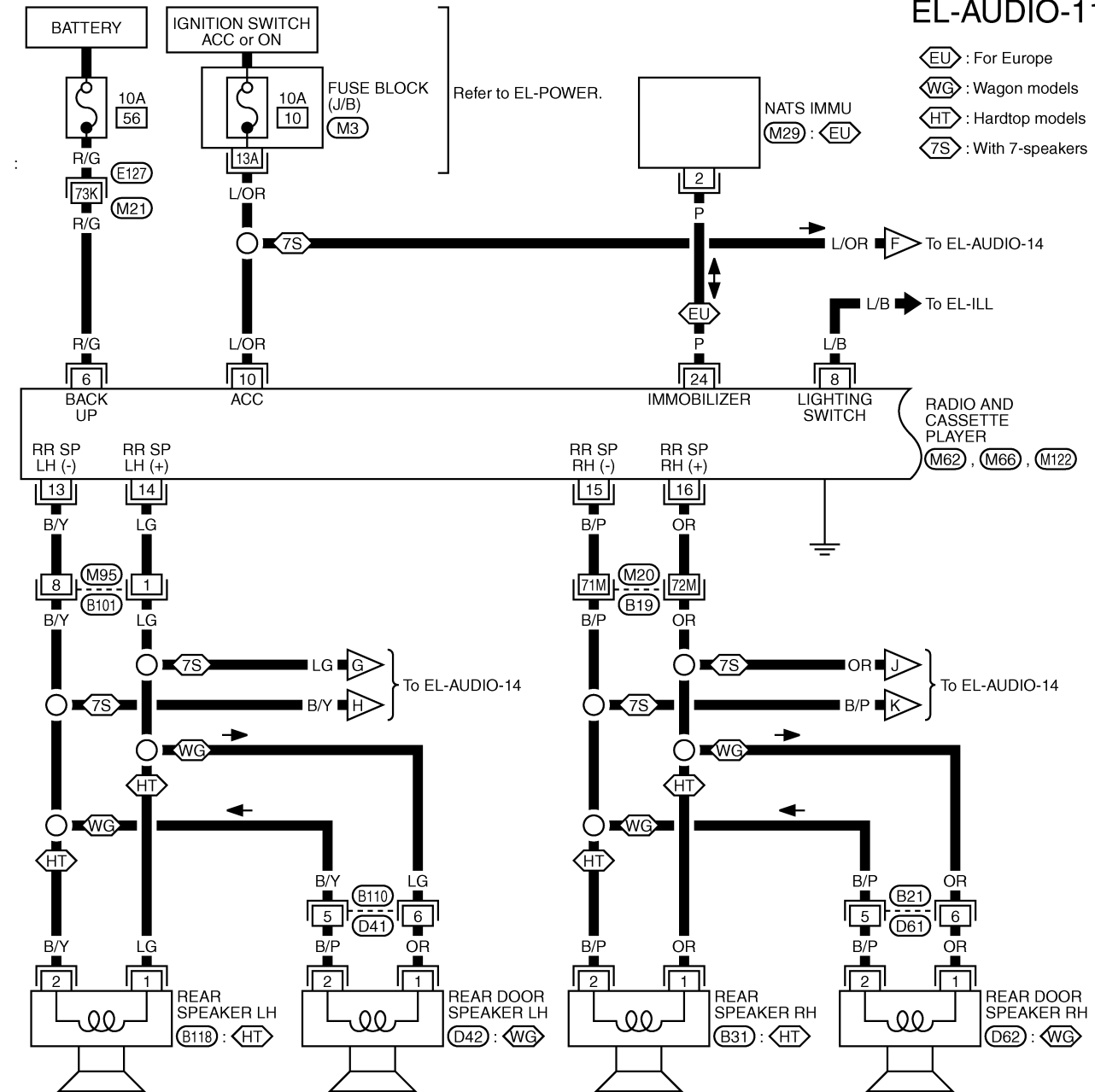
TEL062N

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/RHD Models without Sub-harness

EL-AUDIO-11

- ◊EU : For Europe
- ◊WG : Wagon models
- ◊HT : Hardtop models
- ◊7S : With 7-speakers



Refer to last page (Foldout page).

M20, B19

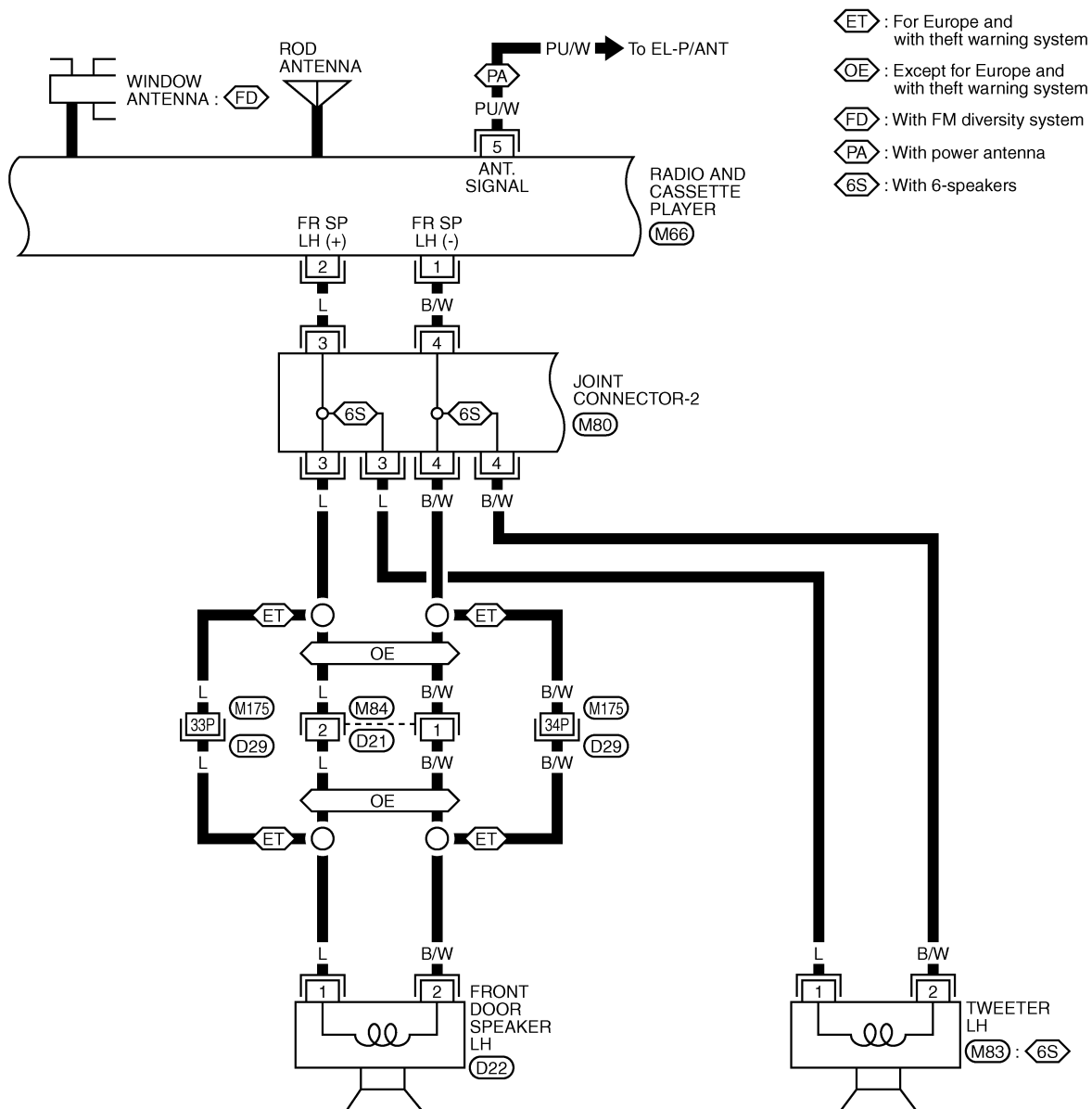
M21, E127

M3

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/RHD Models without Sub-harness (Cont'd)

EL-AUDIO-12



10	8	4	2
9	7	6	5

(M66)
W

1	1	1	2	2	2	3	3	3	4	4	4
---	---	---	---	---	---	---	---	---	---	---	---

(M80)
B

1
2
3

(M83)
W

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(M84)
W

1	2
---	---

(D22)
BR

Refer to last page (Foldout page).

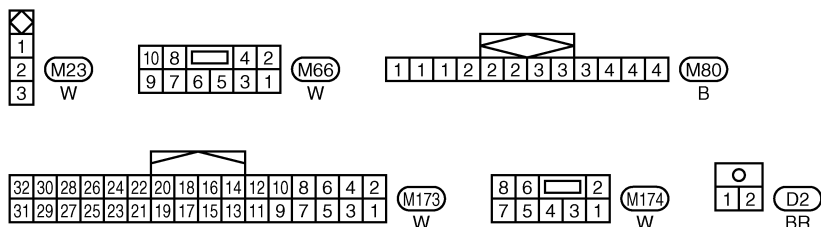
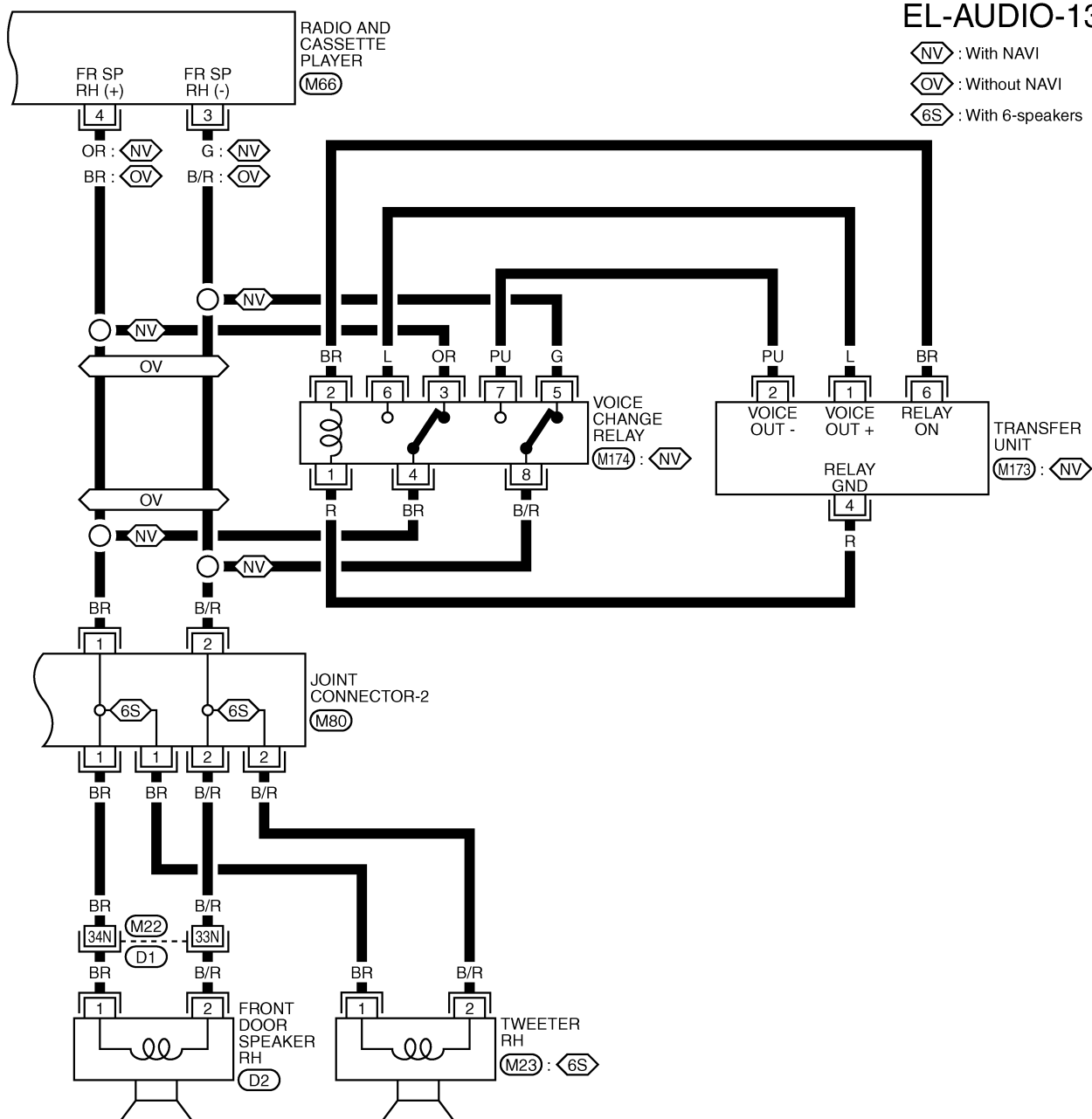
(M175), (D29)

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/RHD Models without Sub-harness (Cont'd)

EL-AUDIO-13

- NV : With NAVI
- OV : Without NAVI
- 6S : With 6-speakers



Refer to last page (Foldout page).

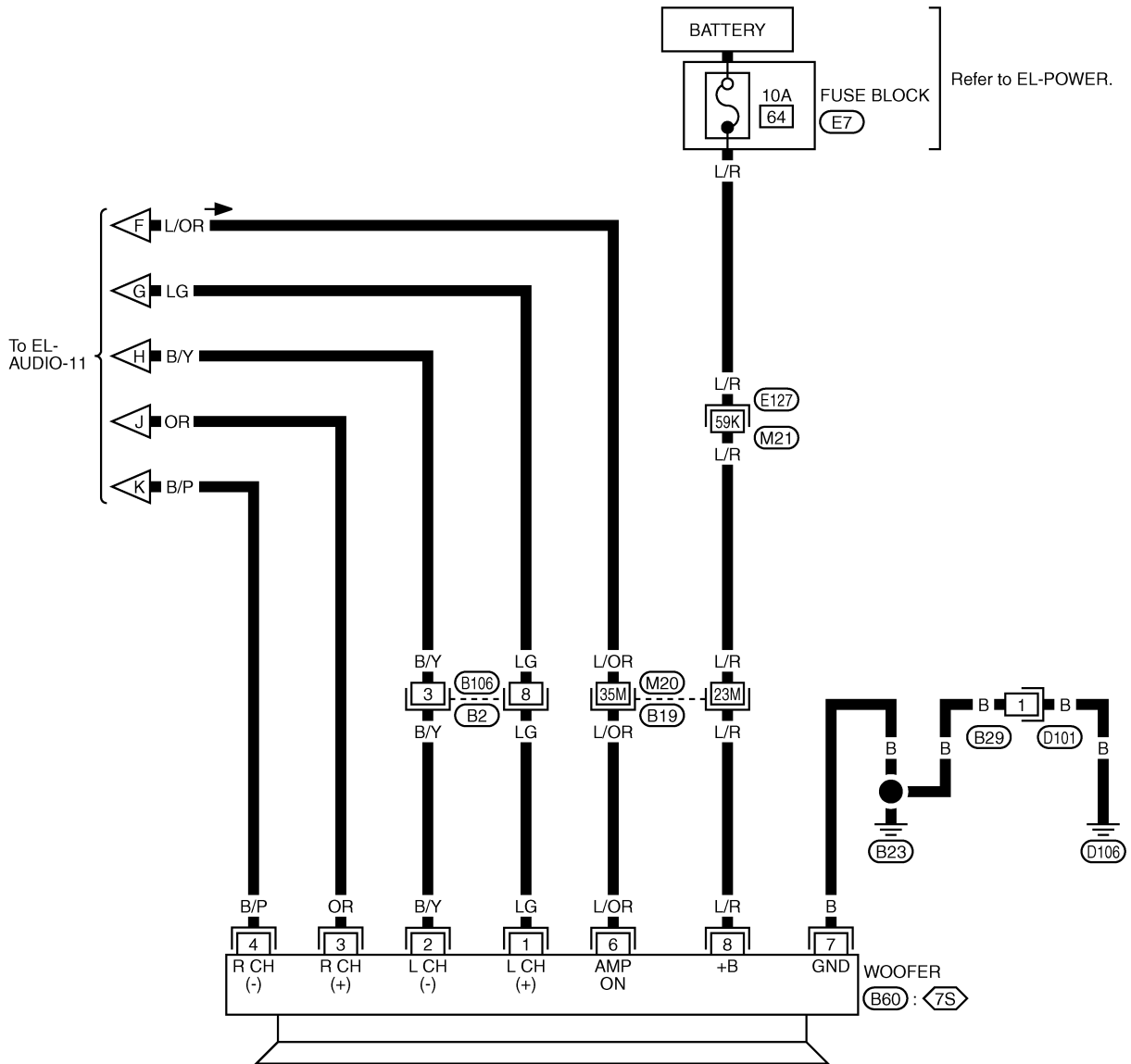
M22, D1

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — AUDIO —/RHD Models without Sub-harness (Cont'd)

EL-AUDIO-14

7S : With 7-speakers



1	2	3	4	5
6	7	8	9	10
11	12			

B2
W

8	6	2
7	5	4
3	1	

B60
W

1	2
3	4
5	6

D101
W

Refer to last page (Foldout page).

M20, B19

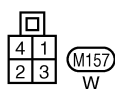
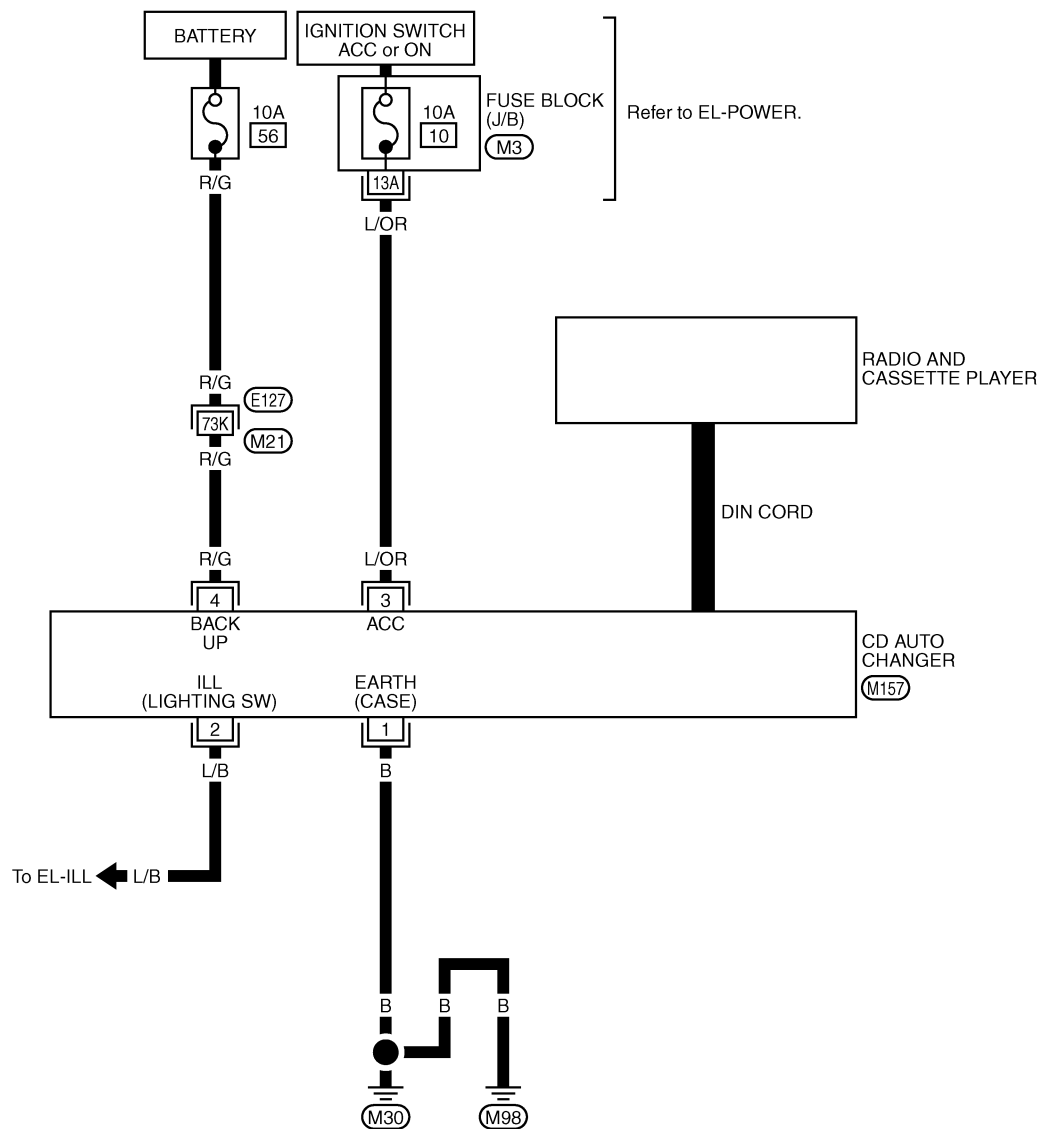
M21, E127

E7

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — CD AUTO CHANGER — WITH 1-DIN TYPE CD AUTO CHANGER

EL-CD/CHG-01



Refer to last page (Foldout page).

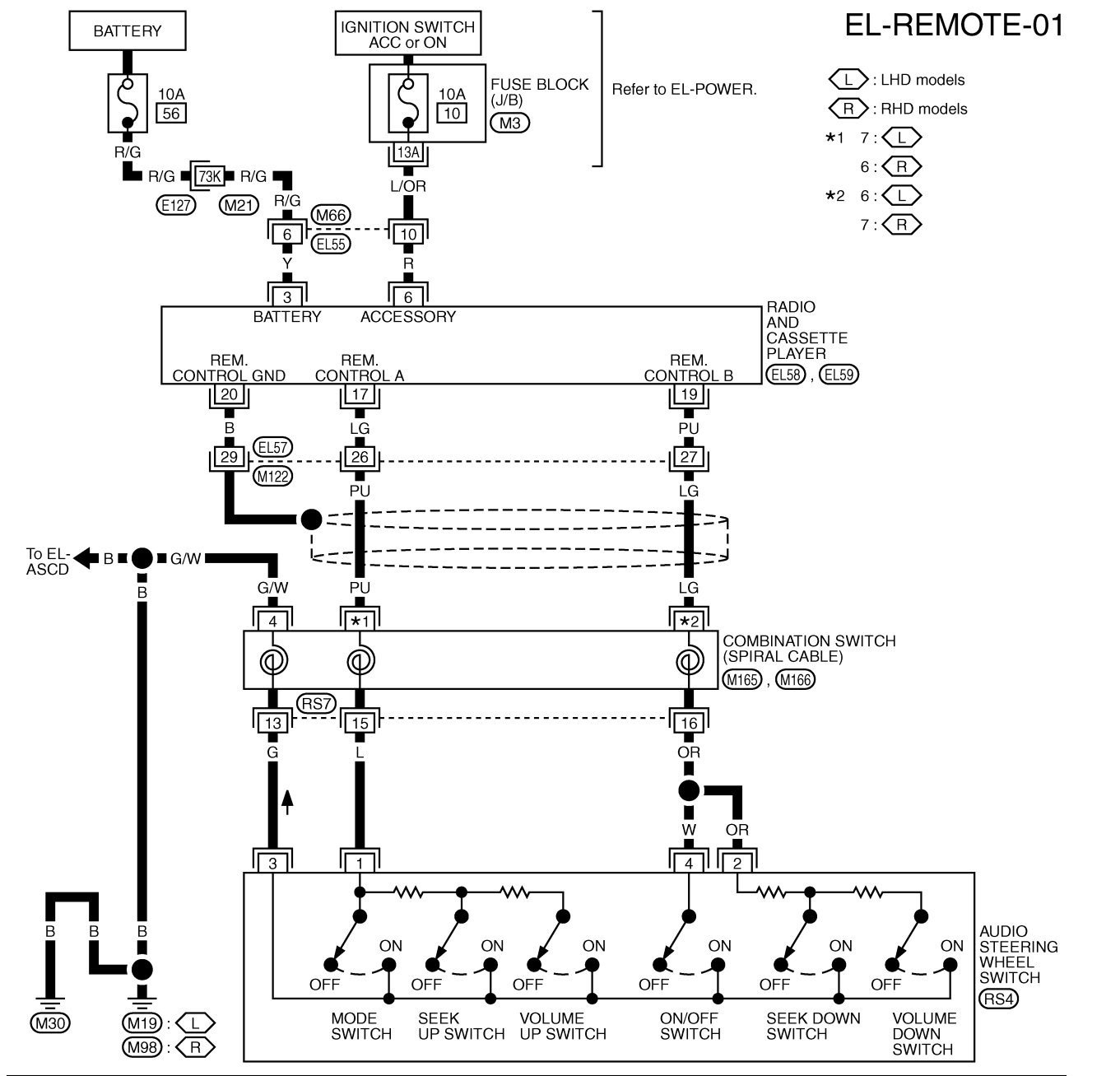
(M21), (E127)
(M3)

TEL067N

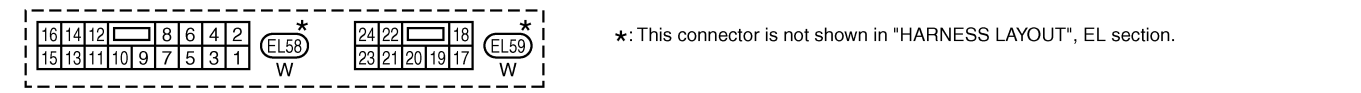
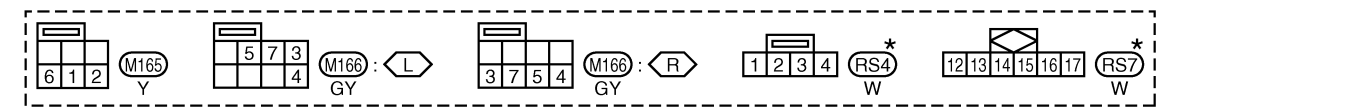
AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — REMOTE —

WITH SUB-HARNESS AND ASCD



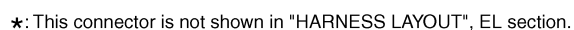
(M21), (E127)



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

Wiring Diagram — REMOTE — (Cont'd)

EL-REMOTE-02

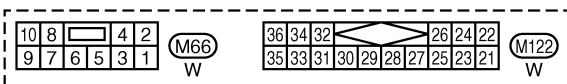
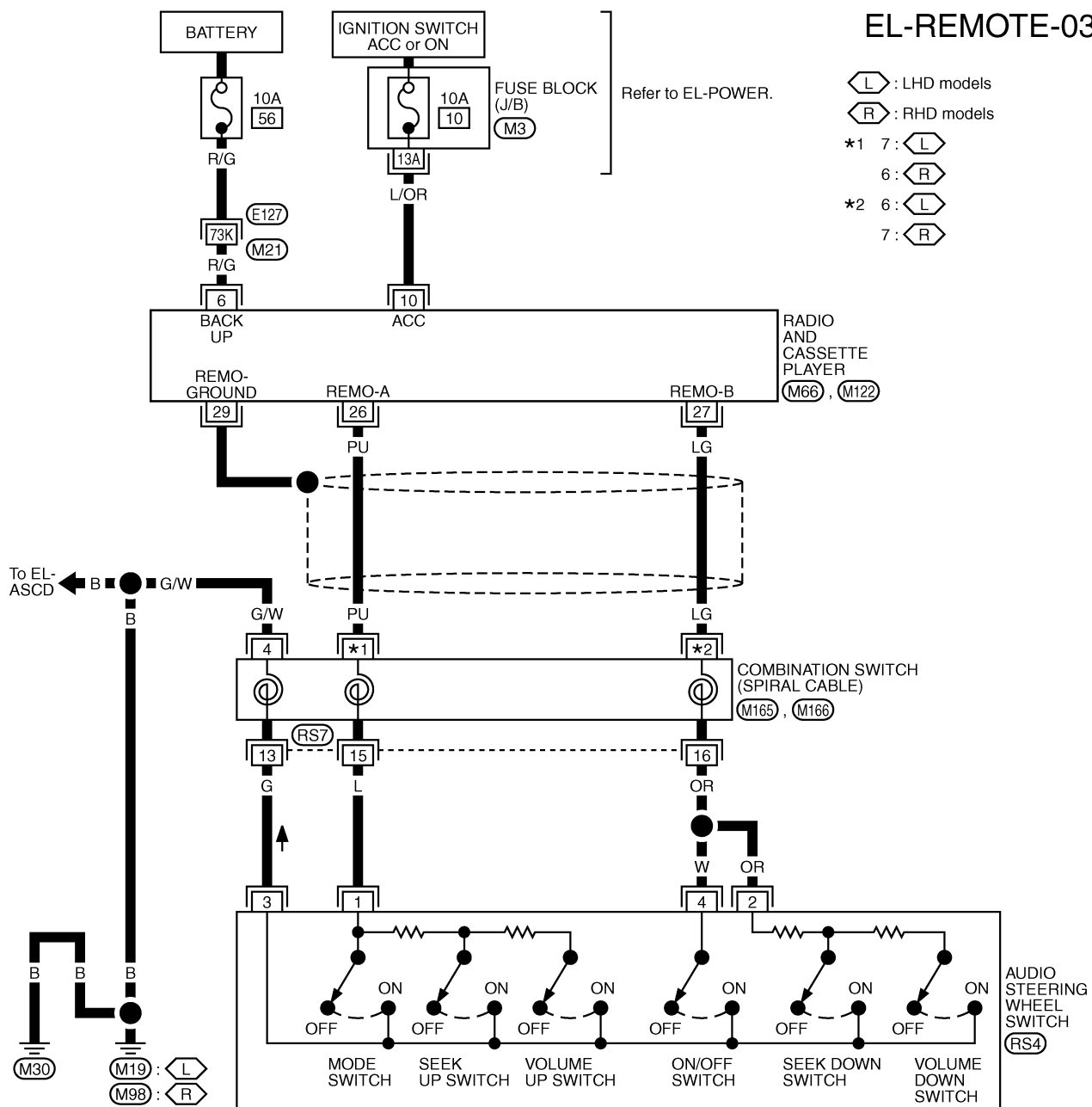


AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — REMOTE — (Cont'd)

WITHOUT SUB-HARNESS WITH ASCD

EL-REMOTE-03



Refer to last page (Foldout page).

M21, E127

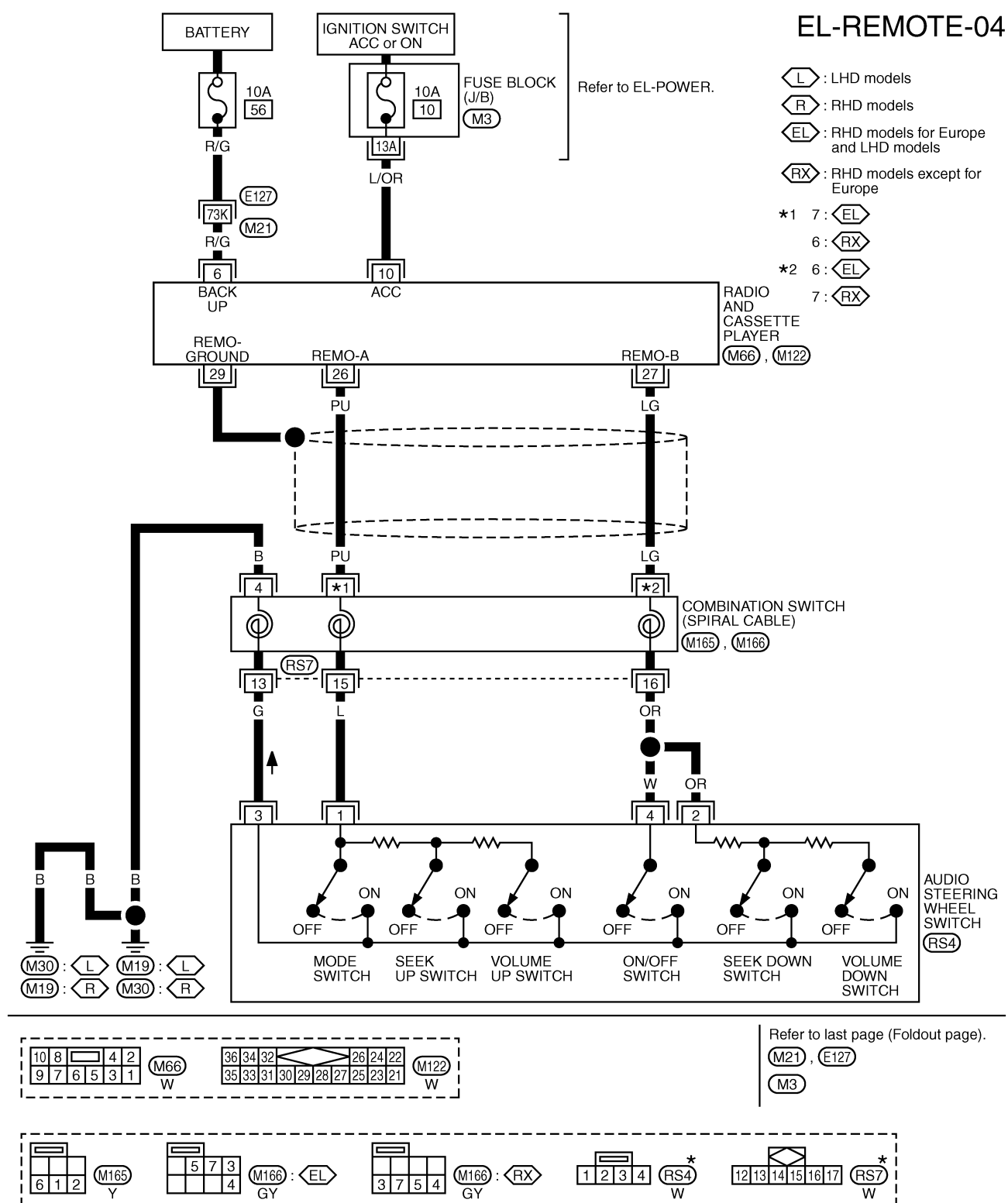
M3

★: This connector is not shown in "HARNESS LAYOUT", EL section.

TEL070N

Wiring Diagram — REMOTE — (Cont'd)

WITHOUT SUB-HARNESS AND ASCD

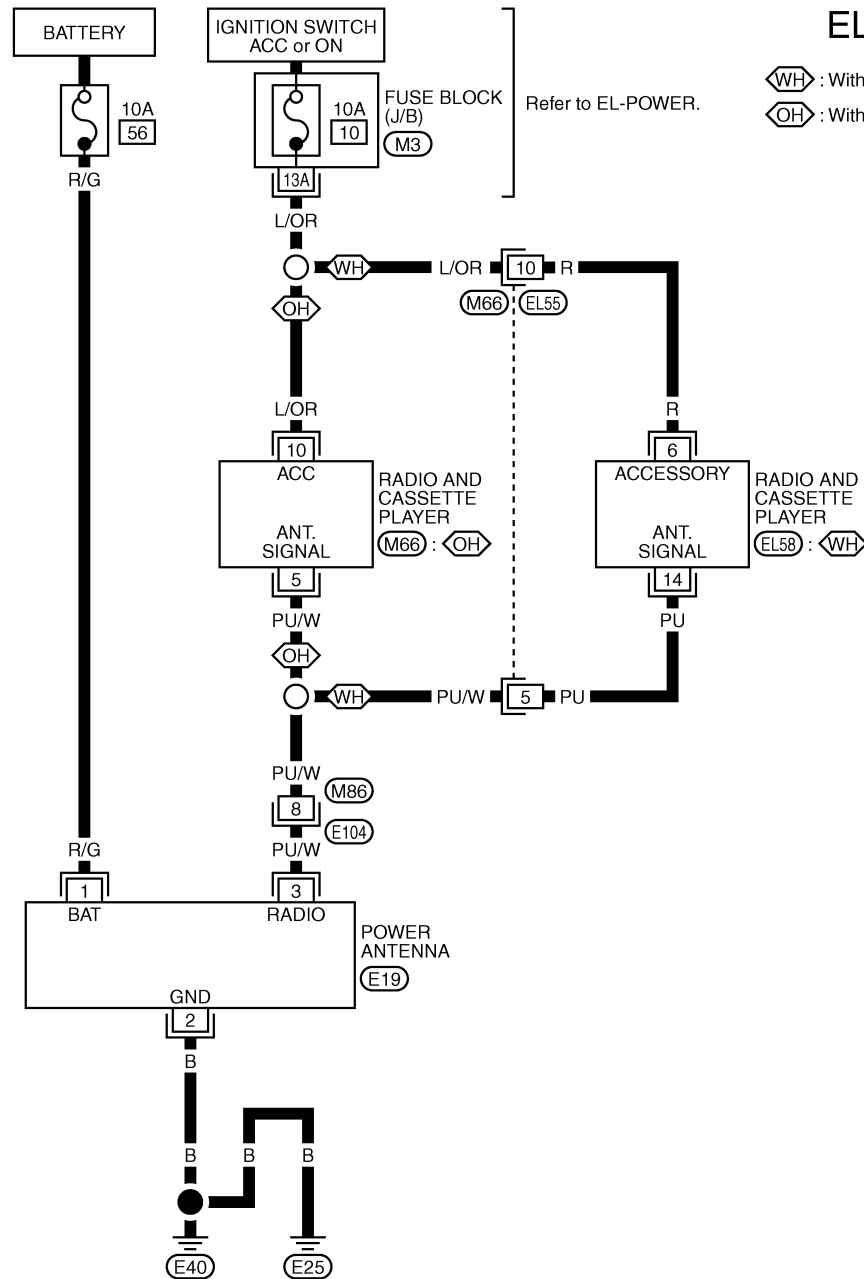


*: This connector is not shown in "HARNESS LAYOUT", EL section.

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — P/ANT —/LHD Models

EL-P/ANT-01



<WH> : With sub-harness
<OH> : Without sub-harness

10	8	4	2
9	7	6	5

M66
W

3	2	1
---	---	---

E19
GY

1	2	3	4	5
6	7	8	9	10

E104
W

16	14	12	8	6	4	2
15	13	11	10	9	7	5

EL58
W

★: This connector is not shown in "HARNESS LAYOUT", EL section.

Refer to last page (Foldout page).

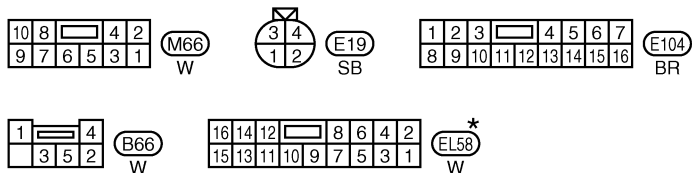
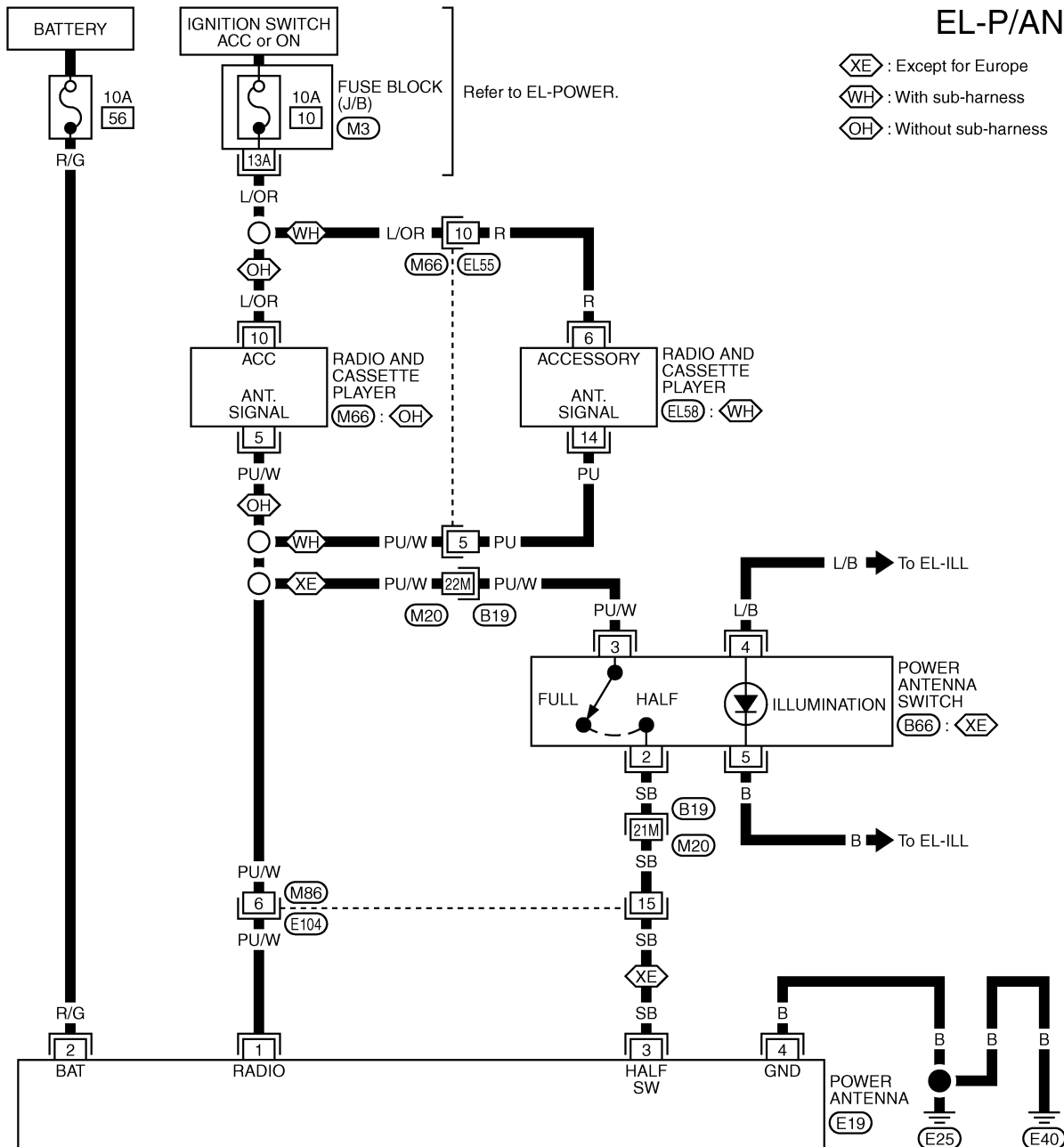
M3

AUDIO/WAGON AND HARDTOP MODELS

Wiring Diagram — P/ANT —/RHD Models

EL-P/ANT-02

- ⬡ XE : Except for Europe
- ⬡ WH : With sub-harness
- ⬡ OH : Without sub-harness



★: This connector is not shown in "HARNESS LAYOUT", EL section.

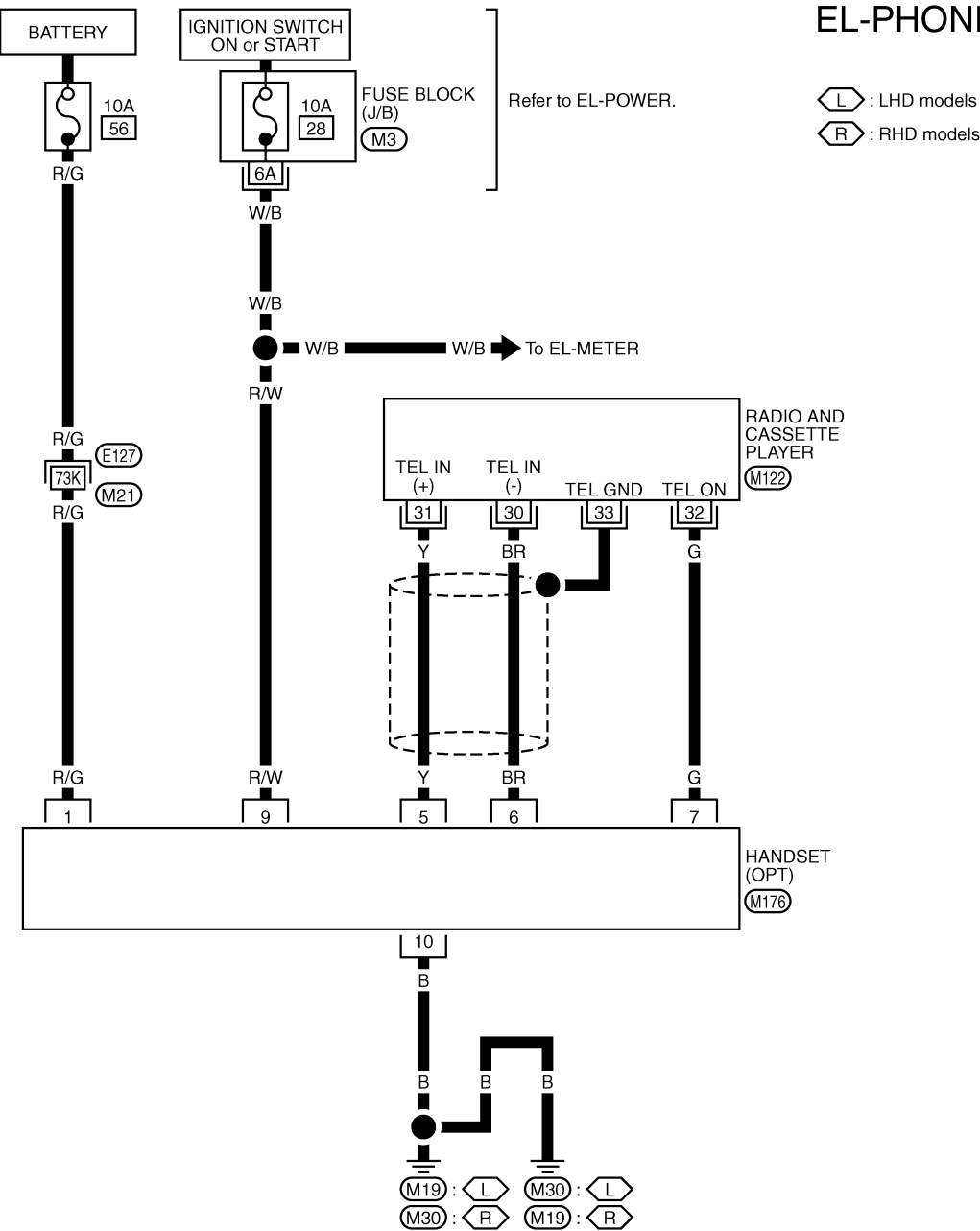
Refer to last page (Foldout page).

M20, B19
M3

TELEPHONE (PRE WIRE)


Wiring Diagram — PHONE —

EL-PHONE-01



36	34	32	30	29	28	27	26	24	22
35	33	31	30	29	28	27	25	23	21

M122
W

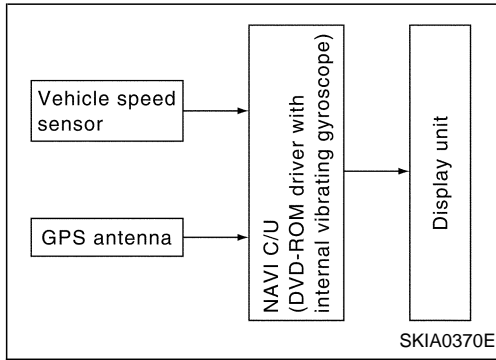
1	2					3	4
5	6	7	8	9	10	11	12

M176

W

Refer to last page (Foldout page).
M21, E127
M3

NAVIGATION SYSTEM

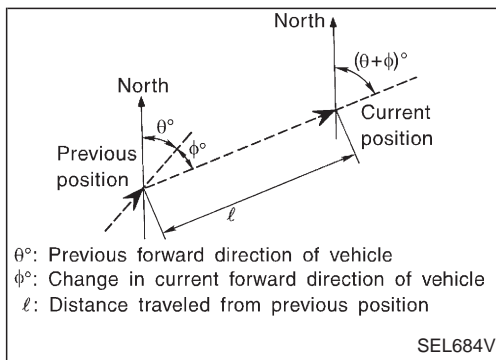


System Description

OUTLINE

The navigation system periodically calculates the vehicle's current position according to the following three signals: Travel distance of the vehicle as determined by the vehicle speed sensor, turning angle of the vehicle as determined by the gyroscope (angular velocity sensor), and the direction of vehicle travel as determined by the GPS antenna (GPS information).

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data read from the map DVD-ROM, which is stored in the DVD-ROM drive (map-matching), and indicated on the screen with a current location mark.



By comparing the vehicle position detection results found by the GPS and by map-matching, more accurate vehicle position data can be used.

The current vehicle position will be calculated by detecting the distance the vehicle moved from the previous calculation point and its direction.

TRAVEL DISTANCE

Travel distance calculations are based on the vehicle speed sensor input signal. Therefore, the calculation may become incorrect as the tires wear down. To prevent this, an automatic distance fine adjustment function has been adopted.

TRAVEL DIRECTION

Change in the travel direction of the vehicle is calculated by a gyroscope (angular velocity sensor) and a GPS antenna (GPS information). As the gyroscope and GPS antenna have both merit and demerit, input signals from them are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

Type	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	<ul style="list-style-type: none">Can detect the vehicle's turning angle quite accurately.	<ul style="list-style-type: none">Direction errors may accumulate when the vehicle is driven for long distances without stopping.
GPS antenna (GPS information)	<ul style="list-style-type: none">Can detect the vehicle's travel direction (North/South/East/West).	<ul style="list-style-type: none">Correct direction cannot be detected when the vehicle speed is low.

NAVIGATION SYSTEM

System Description (Cont'd)

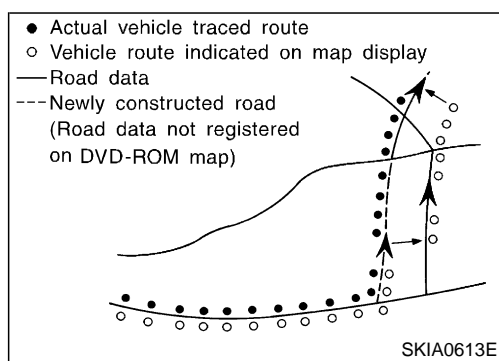
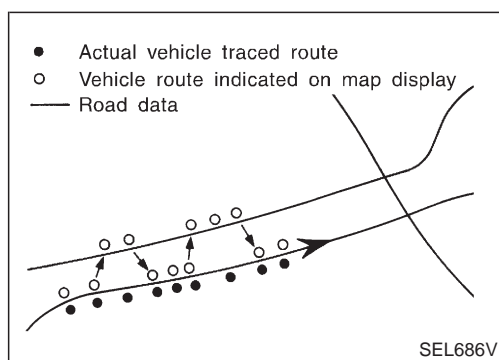
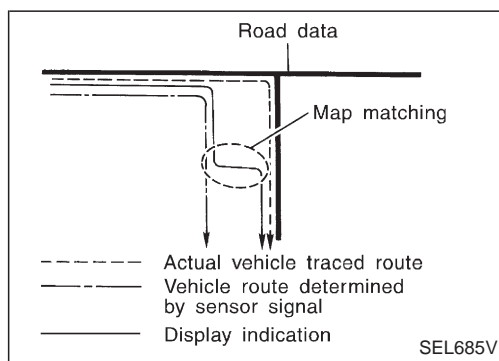
MAP-MATCHING

Map-matching is a function that repositions the vehicle on the road map when a new location is judged to be the most accurate. This is done by comparing the current vehicle position, calculated by the method described in the position detection principle, with the road map data around the vehicle, read from the map DVD-ROM stored in the DVD-ROM drive.

Therefore, the vehicle position may not be corrected after the vehicle is driven over a certain distance or time in which GPS information is hard to receive. In this case, the current location mark on the display must be corrected manually.

NOTE:

The road map data is based on data stored in the map DVD-ROM.



- In map-matching, alternative routes to reach the destination will be shown and prioritized, after the road on which the vehicle is currently driven has been judged and the current location mark has been repositioned.
If there is an error in distance and/or direction, the alternative routes will be shown in different order of priority, and the wrong road can be avoided.
If two roads are running in parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road.
- Map-matching does not function correctly when the road on which the vehicle is driving is new and not recorded in the map DVD-ROM, or when the road pattern stored in the map data and the actual road pattern are different due to repair.
When driving on a road not present in the map, the map-matching function may find another road and position the current location mark on it. Then, when the correct road is detected, the current location mark may leap to it.
- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data read from the map DVD-ROM is limited. Therefore, when there is an excessive gap between the current vehicle position and the position on the map, correction by map-matching is not possible.

NAVIGATION SYSTEM

System Description (Cont'd)

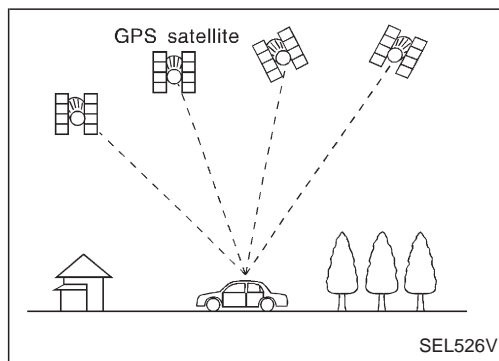
GPS (GLOBAL POSITIONING SYSTEM)

GPS (Global Positioning System) has been developed and controlled by the US Department of Defense. The system utilizes GPS satellite (NAVSTAR), sending out radio waves while flying on an orbit around the earth at the height of approx. 21,000 km (13,000 miles).

The GPS receiver calculates the vehicle's position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves received from four or more GPS satellites (three-dimensional positioning). If radio waves were received only from three GPS satellites, the GPS receiver calculates the vehicle's position in two dimensions (latitude/longitude), utilizing the altitude data calculated previously by using radio waves from four or more GPS satellites (two-dimensional positioning).

Accuracy of the GPS will deteriorate under the following conditions.

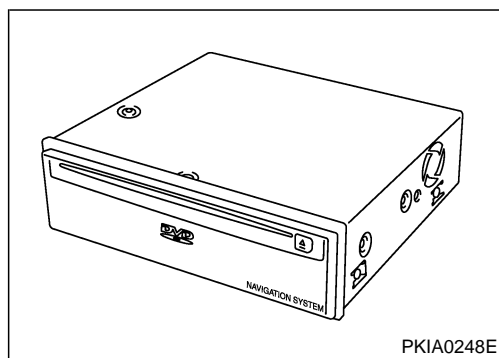
- In two-dimensional positioning, the GPS accuracy will deteriorate when the altitude of the vehicle position changes.
- There may be an error of approximately 10 m (30 ft.) in position detected by three-dimensional positioning, which is more accurate than two-dimensional positioning. The accuracy can be even lower depending on the arrangement of the GPS satellites utilized for the positioning.
- Position detection is not possible when the vehicle is in an area where radio waves from the GPS satellite do not reach, such as in a tunnel, parking lot in a building, and under an elevated highway. Radio waves from the GPS satellites may not be received when some object is located over the GPS antenna.
- Position correction by GPS is not available while the vehicle is stopped.



COMPONENT DESCRIPTION

NAVI control unit

- The gyro (angular speed sensor) and the DVD-ROM drive are built-in units that control the navigation functions.
- Signals are received from the gyro, the vehicle speed sensor, and the GPS antenna. Vehicle location is determined by combining this data with the data contained in the DVD-ROM map. Locational information is shown on liquid crystal display panel.

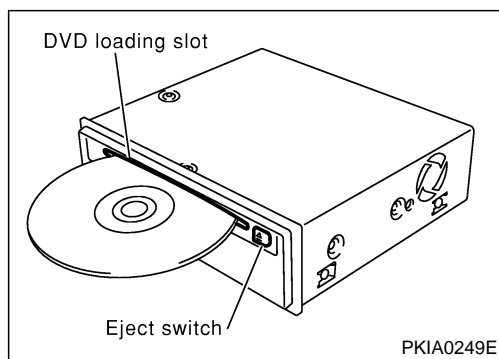


DVD-ROM drive

Maps, traffic control regulations, and other pertinent information can be easily read from the DVD-ROM disc.

Map DVD-ROM

- The map DVD-ROM has maps, traffic control regulations, and other pertinent information.
- To improve DVD-ROM map matching and route determination functions, the DVD-ROM uses an exclusive Nissan format. Therefore, the use of a DVD-ROM provided by other manufacturers cannot be used.

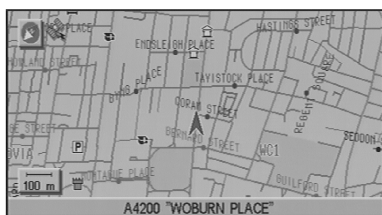


NAVIGATION SYSTEM

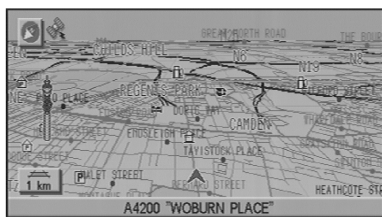
System Description (Cont'd)

Gyro (Angular speed sensor)

- The oscillator gyro sensor is used to detect changes in vehicle steering angle.
- The gyro is built into the navigation (NAVI) control unit.



SKIA1377E



SKIA1378E

BIRDVIEW®

The BIRDVIEW® provides a detailed and easily seen display of road conditions covering the vehicle's immediate to distant area.

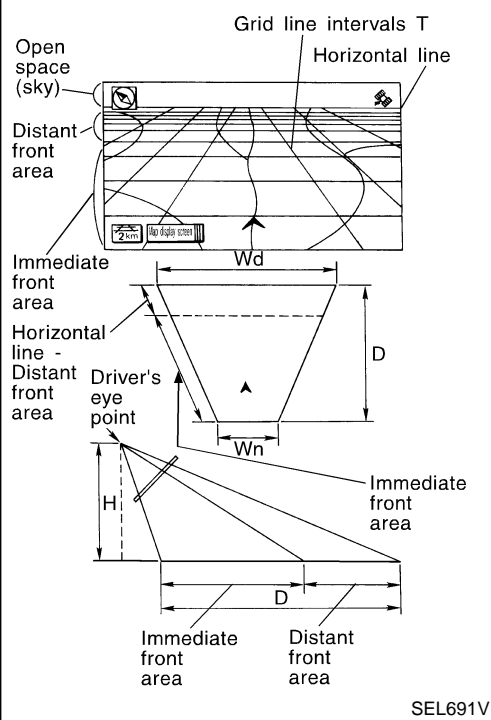
- MAP DISPLAY

- BIRDVIEW®

Description

- Display area: Trapezoidal representation showing approximate distances (W_n , D , and W_d).
- Ten horizontal grid lines indicate display width while six vertical grid lines indicate display depth and direction.
- Drawing line area shows open space, depth, and immediate front area. Each area is to a scale of approximately 5:6:25.
- Pushing the "ZOOM IN" button during operation displays the scale change and the view point height on the left side of the screen.

The height of the view point increases or decreases when "ZOOM" or "WIDE" is selected.



SEL691V

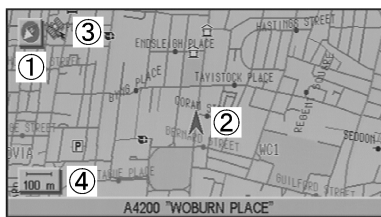
NAVIGATION SYSTEM

System Description (Cont'd)

MAP DISPLAY

Function of each icon is as follows:

1. Azimuth indication.
2. Position marker.
 - The tip of the arrow shows the current location. The shaft of the arrow indicates the direction in which the vehicle is traveling.
3. GPS reception signal (indicates current reception conditions).
4. Distance display (shows the distance in a reduced scale).



SKIA1379E

FUNCTION OF NAVI SWITCH

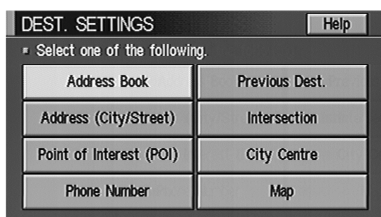
Display with pushed “DEST” switch

- Easy Mode



SKIA9542E

- Expert Mode



SKIA9142E

The Function of Each Icon Is as Follows:

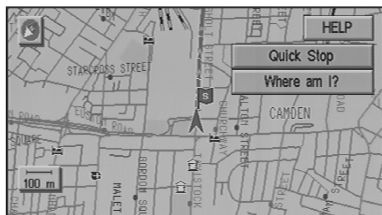
Icon	MODE		Description
	Easy	Expert	
Address Book		x	Favorite place can be saved to memory.
Address (City/Street)	x	x	The destination can be searched from the address.
Point of Interest (POI)	x	x	The destination of favorite facility can be searched.
Phone Number		x	The destination can be searched from the phone number.
Previous Dest.		x	The previous ten destinations stored in memory are displayed.
Intersection		x	The destination can be searched from the intersection.
City Center		x	The destination can be searched from city name.
Map		x	The destination can be searched from the map.
Home	x		Sets the home as a destination.
Help	x		Explanation of navigational functions appear on the display.

NAVIGATION SYSTEM

System Description (Cont'd)

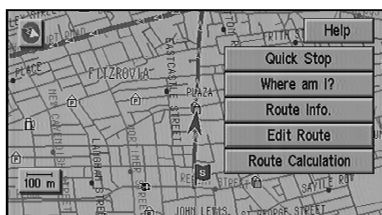
Display with pushed "ROUTE" switch

- Easy Mode



SKIA1382E

- Expert Mode



SKIA1383E

The Function of Each Icon Is as Follows:

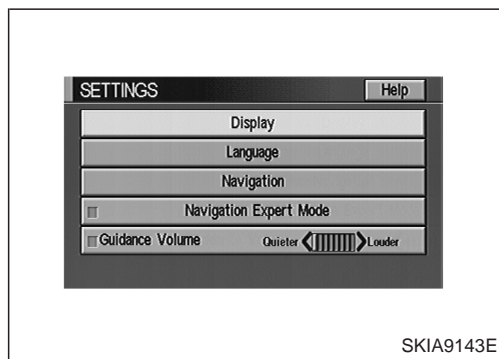
Icon	MODE		Description
	Easy	Expert	
Quick Stop	x	x	The selected facility is set as the destination or waypoint. (Route guidance has been turned OFF or the destination has been reached)
Where am I?	x	x	Next, current and previous street names can be displayed.
Route Info.*		x	The following can be set. <ul style="list-style-type: none"> ● Complete Route ● Turn List ● Route Simulation (Displayed only when the destination area has been set.)
Edit Route*		x	Change the destination or add the transit points of the route set in the route guide. (Displayed only when the automatic reroute function has been turned OFF and the recommended route is not followed.)
Route Calculation		x	This key is used to start the route calculation after all the settings are completed.
Help	x		Explanation of navigational functions appear on the display.

*: When destinations have been entered, route guidance has been turned OFF or destination has been reached, "Route Info." and "Edit Route" are not displayed.

NAVIGATION SYSTEM

System Description (Cont'd)

Display with pushed "SETTING" switch



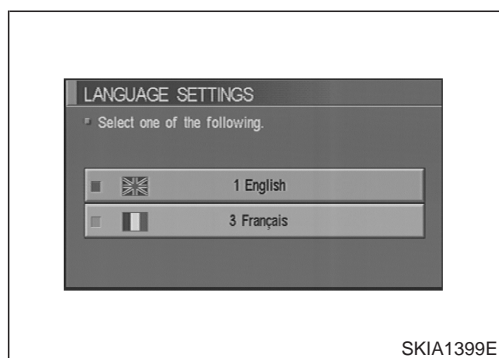
The Function of Each Icon Is as Follows:

Icon	Description
Display	Settings of display can be performed.
Language	Language can be selected for the display and voice guidance. Use the program CD-ROM disc to change the language.
Navigation	Settings and adjusting of navigation can be performed.
Navigation Expert Mode	Easy Mode and Expert Mode can be switched.
Guidance Volume	The volume and/or on/off of voice prompt can be controlled by the joystick.
Help	Explanation of navigational functions appear on the display.

Display with pushed "INFO" button

- When the "INFO" button is pushed, the following will display on the screen.
- Warning message (if there are any) → DRIVE INFORMATION → MAINTENANCE INFORMATION → OFF.

Display items	Display/Setting contents	
DRIVE INFORMATION	Elapsed Time	Displays driving time with a range of 0:00:00 to 9999:59:59.
	Driving Distance [(km) or (miles)]	Displays driving distance with a range of 0.0 to 99999.9.
	Average speed [(km/h) or (MPH)]	Displays average speed with a range of 0.0 to 999.9.
MAINTENANCE INFORMATION	Reminder 1	Maintenance intervals of vehicle's consumables and setting of cycles.
	Reminder 2	Maintenance intervals of vehicle's consumables and setting of cycles.
	Reminder 3	Maintenance intervals of vehicle's consumables and setting of cycles.



"LANGUAGE SETTINGS" mode

- Select one of the languages which appear on the screen.

NOTE:

Languages that do not appear on the screen must be loaded from program disk.

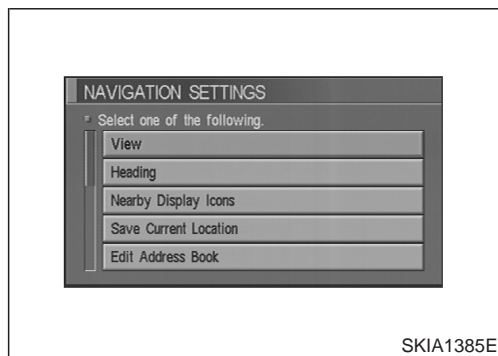
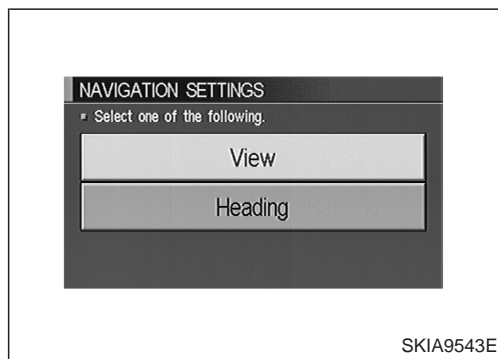
NAVIGATION SYSTEM

System Description (Cont'd)

"NAVIGATION SETTINGS" mode

How To Perform Navigation Settings

1. Start the engine.
2. Push "SETTING" button.
3. Select "Navigation" key.
 - Easy Mode



- Expert Mode

Application Items

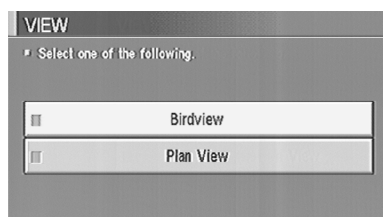
Icon	MODE		Description	Reference page
	Easy	Expert		
View	x	x	Map display mode can be switched.	EL-4170
Heading	x	x	Heading of the map display can be customized for either north heading or the actual driving direction of the vehicle.	EL-4170
Nearby Display Icons		x	Icons of facilities can be displayed. Facilities to be displayed can be selected from the variety selections.	EL-4170
Save Current Location		x	Current vehicle location can be registered in Address Book.	EL-4170
Edit Address Book		x	Address Book can be edited.	EL-4170
Clear Memory		x	Address Book, Previous destination or Avoid area can be deleted.	EL-4171
Auto Re-route On/Off		x	On/Off of Auto Re-route can be switched.	EL-4171
Quick Stop Customer Settings		x	One facility of your selection can be added to your Quick Stop.	EL-4171
Set Average speed for Estimated Journey Time		x	Average vehicle speed can be set to calibrate estimated journey time for the destination.	EL-4171
GPS Information		x	The GPS data includes longitude, latitude and altitude (distance above sea level) of the present vehicle position, and current date and time for the area in which the vehicle is being driven. Also indicated are the GPS reception conditions and the GPS satellite position.	EL-4171
Avoid Area Setting		x	A particular area can be avoided when routing.	EL-4172
Tracking On/Off		x	Tracking to the present vehicle position can be displayed.	EL-4172
Adjust Current Location		x	Current location of position marker can be adjusted. Direction of position marker also can be calibrated when heading direction of the vehicle on the display is not matched with the actual direction.	EL-4172
Switch beep On/Off		x	Button tone can be selected On/Off.	EL-4172

NAVIGATION SYSTEM

System Description (Cont'd)

“VIEW” mode

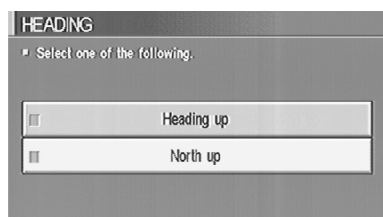
1. Select “BIRDVIEW®” or “Plan View” icon.
 - To open the map screen display with BIRDVIEW®, select “BIRDVIEW®”.
 - To open the map screen display with Plan View, select “Plan View”.



SKIA0554E

“HEADING” mode

- To display the car heading up, select “Heading up”.
- To display North up, select “North up”.



SKIA0561E

“NEARBY DISPLAY ICONS” mode

- Select an icon to display on the map screen.



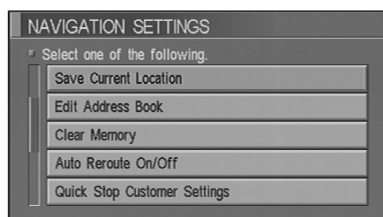
SKIA1394E

“SAVE CURRENT LOCATION” mode

- The current vehicle location can be registered in “Address Book”.

NOTE:

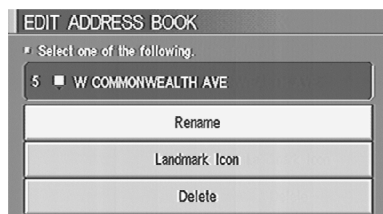
“Address Book” can store 50 items max.



SKIA1388E

“EDIT ADDRESS BOOK” mode

- Edit the items registered in Address Book.



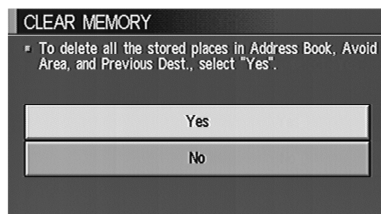
SKIA0560E

NAVIGATION SYSTEM

System Description (Cont'd)

“CLEAR MEMORY” mode

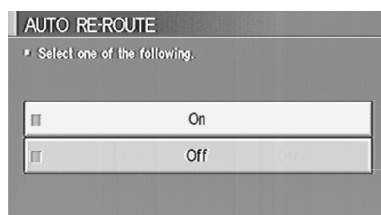
- To delete all the stored places in “Address Book”, “Avoid Area” and “Previous Dest”, select “Yes”.



SKIA9146E

“AUTO RE-ROUTE” mode

- To Perform the auto re-route of route, select “ON”.
- Not to Perform the auto re-route of route, select “OFF”.



SKIA0558E

“QUICK STOP CUSTOMER SETTINGS” mode

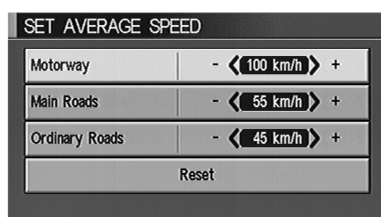
- Select a category for the “Quick Stop” menu.



SKIA1389E

“SET AVERAGE SPEED” mode

- Set the average vehicle speed to calibrate the estimated journey time for the destination.
- Set three items; “Motorway”, “Main Roads”, and “Ordinary Roads”.



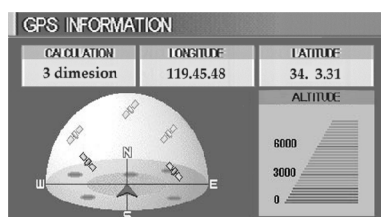
SKIA9544E

“GPS INFORMATION” mode

- Latitude, longitude, altitude, astrometric state, and satellite location are displayed as GPS information.

NOTE:

Altitude is displayed only in three-dimensional status.



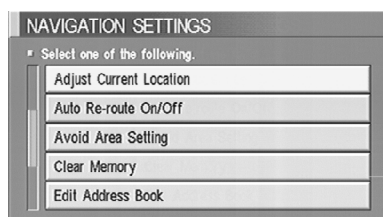
SKIA0555E

NAVIGATION SYSTEM

System Description (Cont'd)

“AVOID AREA SETTING” mode

- Areas to avoid can be registered.



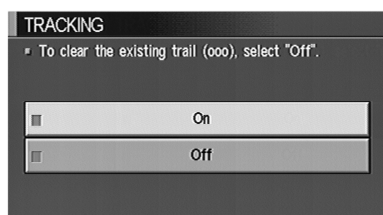
SKIA0563E

“TRACKING” mode

- To leave the tracking marks on the map, select “On”.
- To delete the tracking marks on the map, select “Off”.

NOTE:

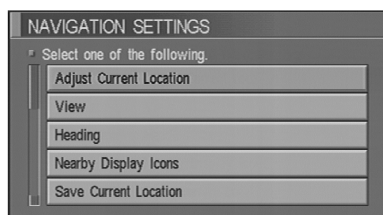
When a trail display is turned OFF, trail data is erased from the memory.



SKIA9545E

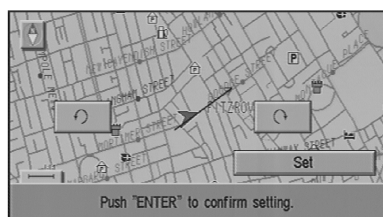
“ADJUST CURRENT LOCATION” mode

1. Select an icon “right” or “left” to calibrate the heading direction.
(Arrow marks will rotate corresponding to the calibration key.)



SKIA1395E

2. Select “Set”. Then the vehicle mark will be matched to the arrow mark.



SKIA1396E

“BUTTON TONE/BEEP RESPONSE” mode

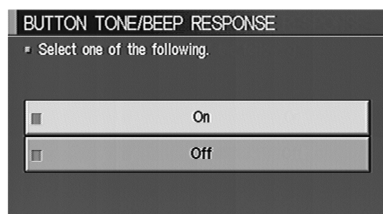
Select “Switch Beep”.

- When Beep Setting is on (indicator light on), a beep will sound if the button is pushed.

NOTE:

Items in exception of Beep Setting ON/OFF.

- An error beep.
- An interrupted-screen beep.



SKIA9148E

NAVIGATION SYSTEM

Precautions for NAVI Control Unit Replacement

- When replacing the NAVI control unit, eject the map DVD-ROM before disconnecting the battery.
- The NAVI control unit has the following information stored in its memory. Record the memory contents before replacing the control unit, and input them in the new unit as necessary.

<Image quality>

- Brightness of light when ON/OFF
- Dimming switching
- Display color switching

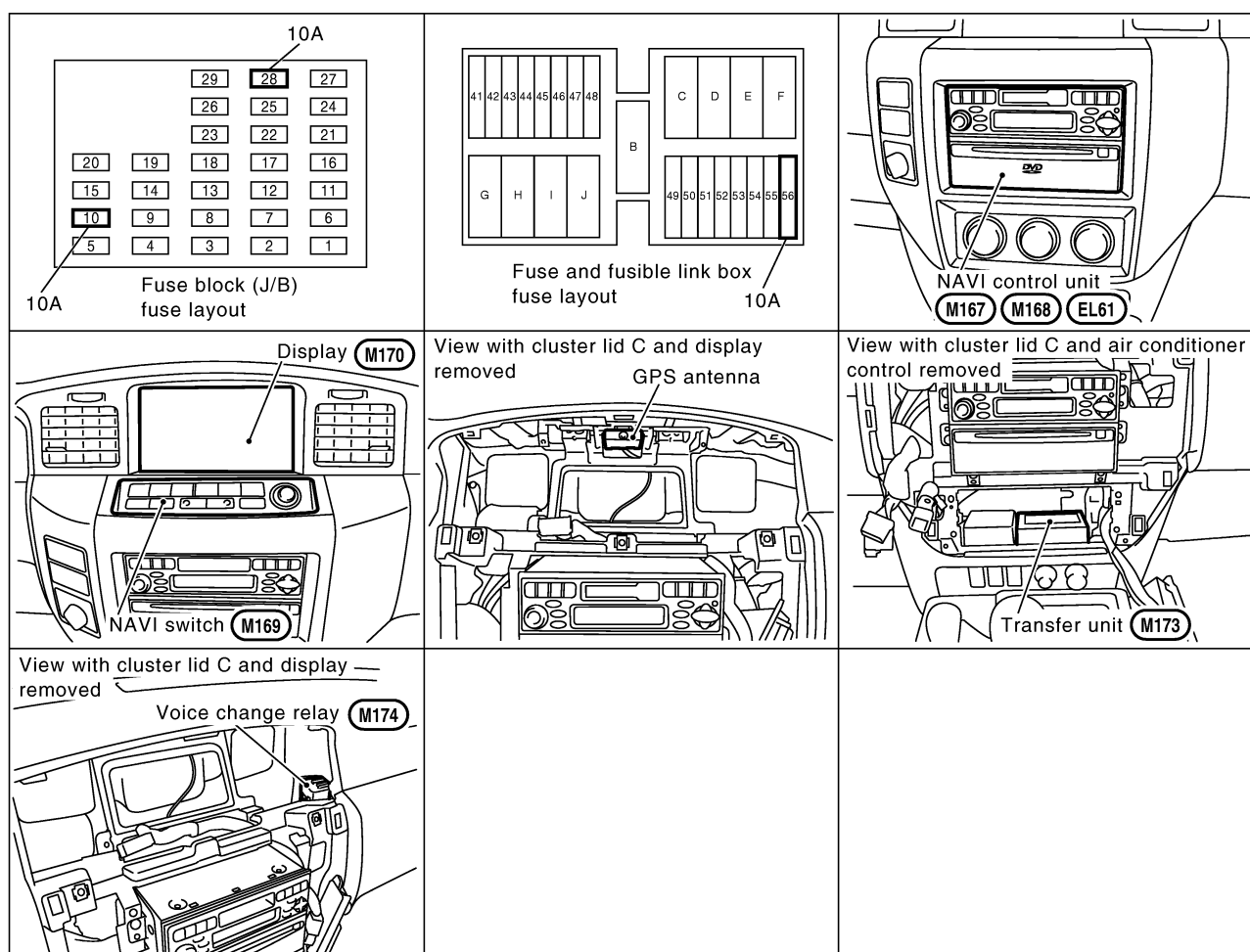
<Navigation mode>

- Latest status (map screen/BIRDVIEW®, reduced scale, rotation angle of map screen, route guide ON/OFF, track ON/OFF, etc.)
- Current position
- Destination, passing point 1 - 5
- Registered places, their names, etc.

NOTE:

Only removing the battery does not erase the memory.

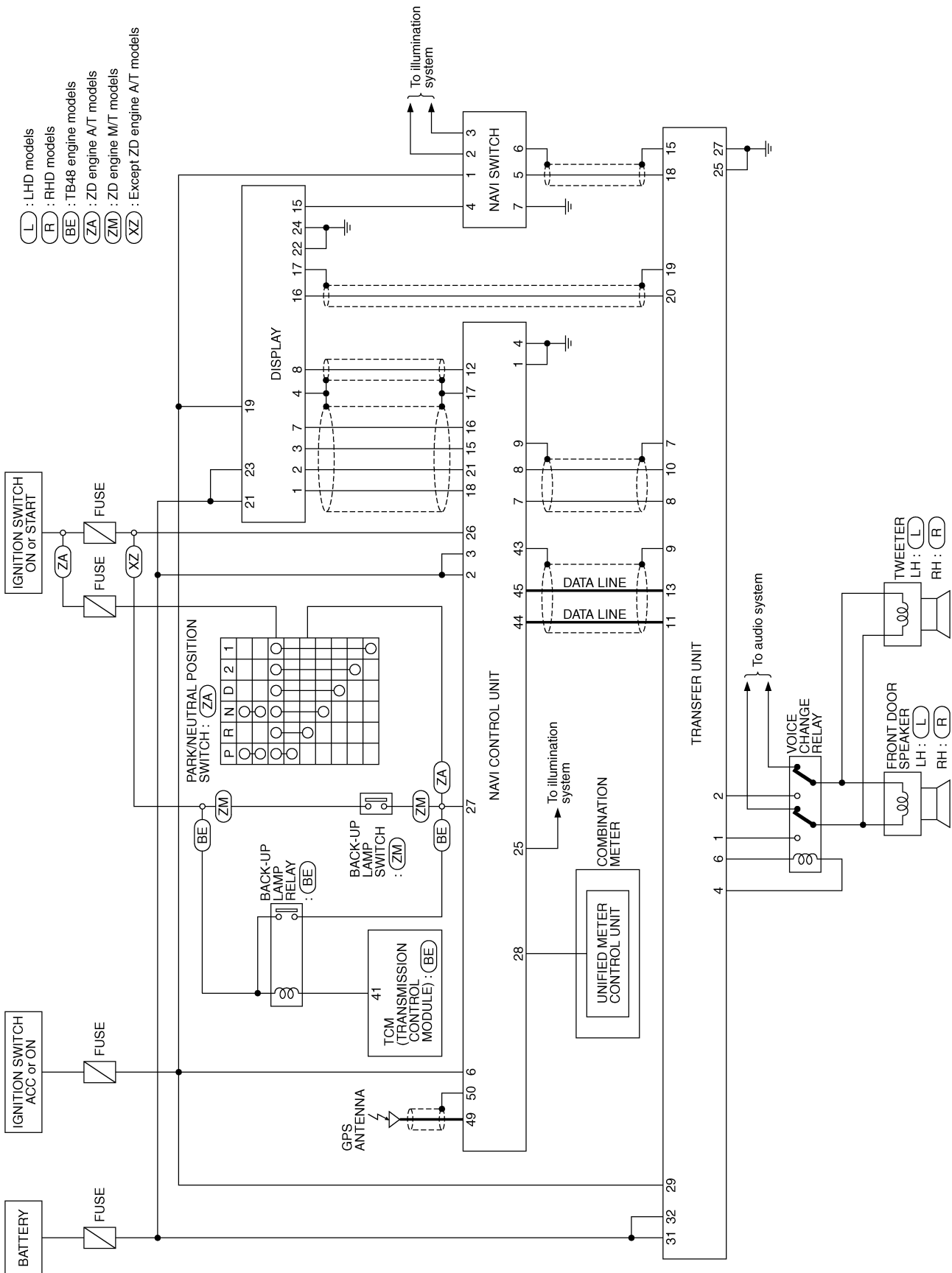
Component Parts And Harness Connector Location



PKIB1033E

NAVIGATION SYSTEM

Schematic

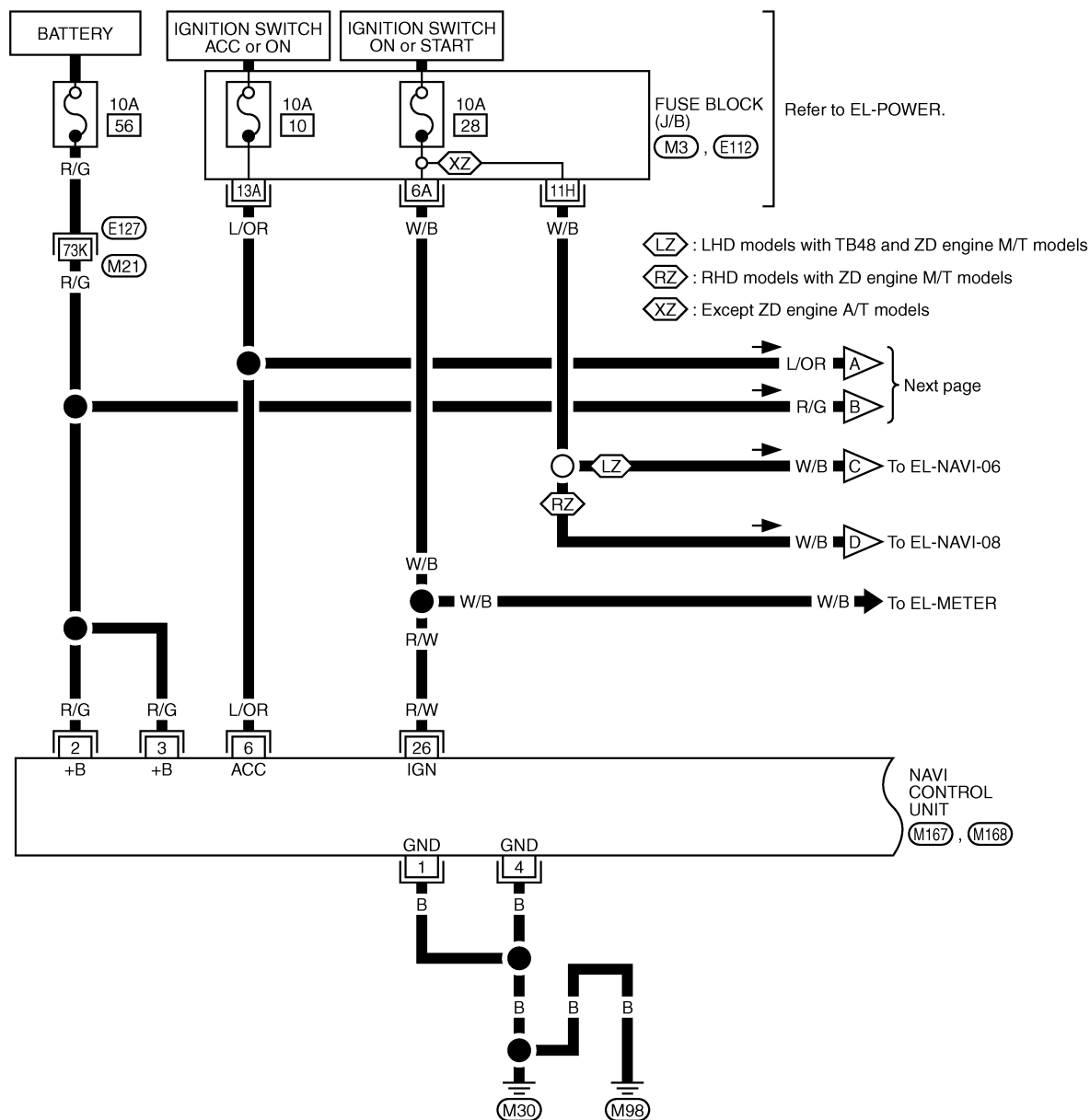


TEL074N

NAVIGATION SYSTEM

Wiring Diagram — NAVI —

EL-NAVI-01



24	21	18	15	13	11	9	6	3	
23	20	17	14	12	10	8	5	2	
22	19	16				7	4	1	

M167 W

48	45	42	39	37	35	33	30	27	
47	44	41	38	36	34	32	29	26	
46	43	40				31	28	25	

M168 GY

Refer to last page (Foldout page).

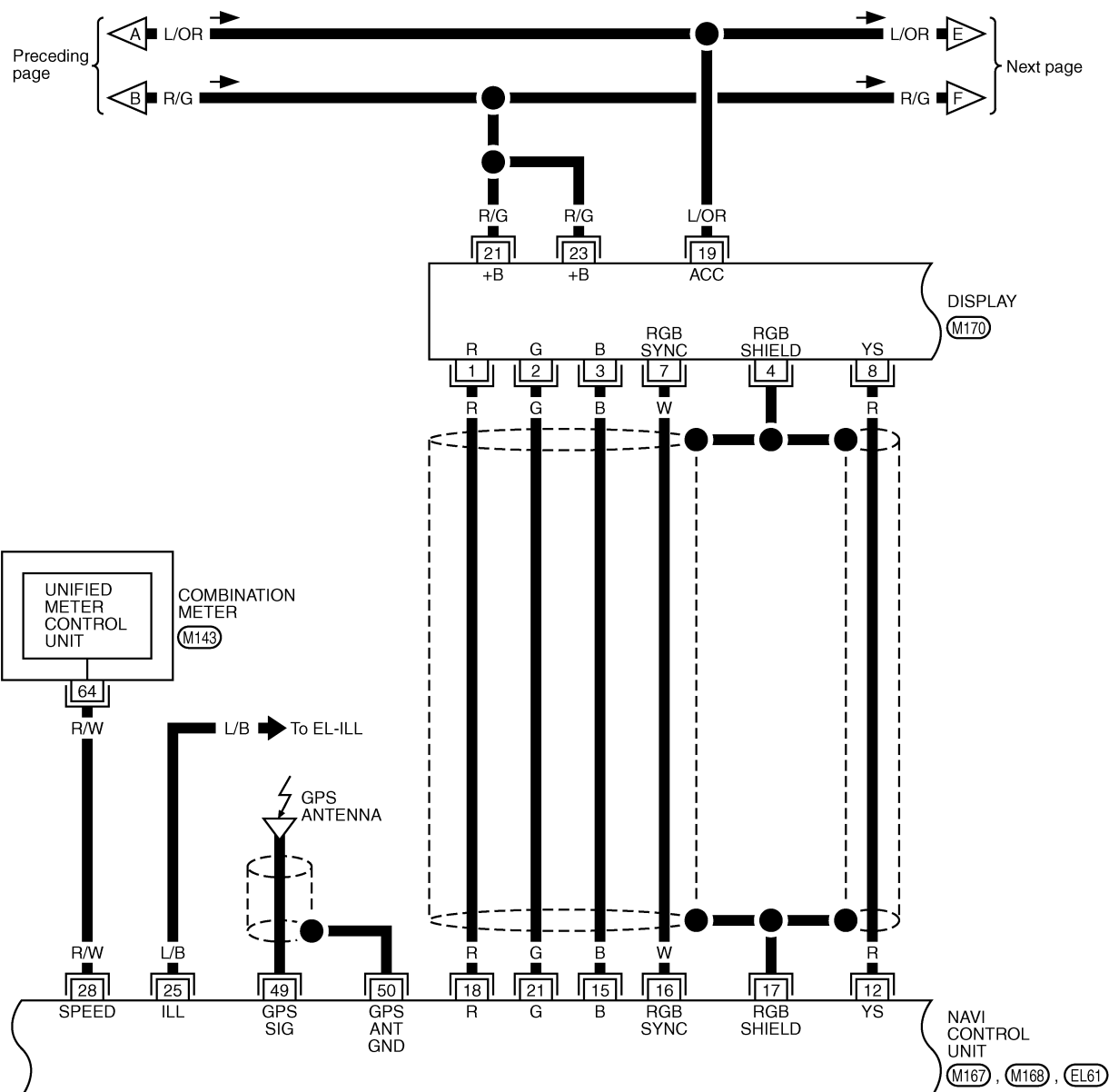
M21, E127
M3
E112

TEL075N

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-02



45	46	47	48	49	50			51	52	53	54	55
56	57	58	59	60	61	62	63	64	65	66	67	68

(M143)
BR

24	21	18	15	13	11	9	6	3	48	45	42	39	37	35	33	30	27
23	20	17	14	12	10	8	5	2	47	44	41	38	36	34	32	29	26
22	19	16				7	4	1	46	43	40				31	28	25

(M167)
W

(M168)
GY

(49)
50

(EL61)
GY

24	22	20	18	16	14			10	8	6	4	2
23	21	19	17	15	13	12	11	9	7	5	3	1

(M170)
GY

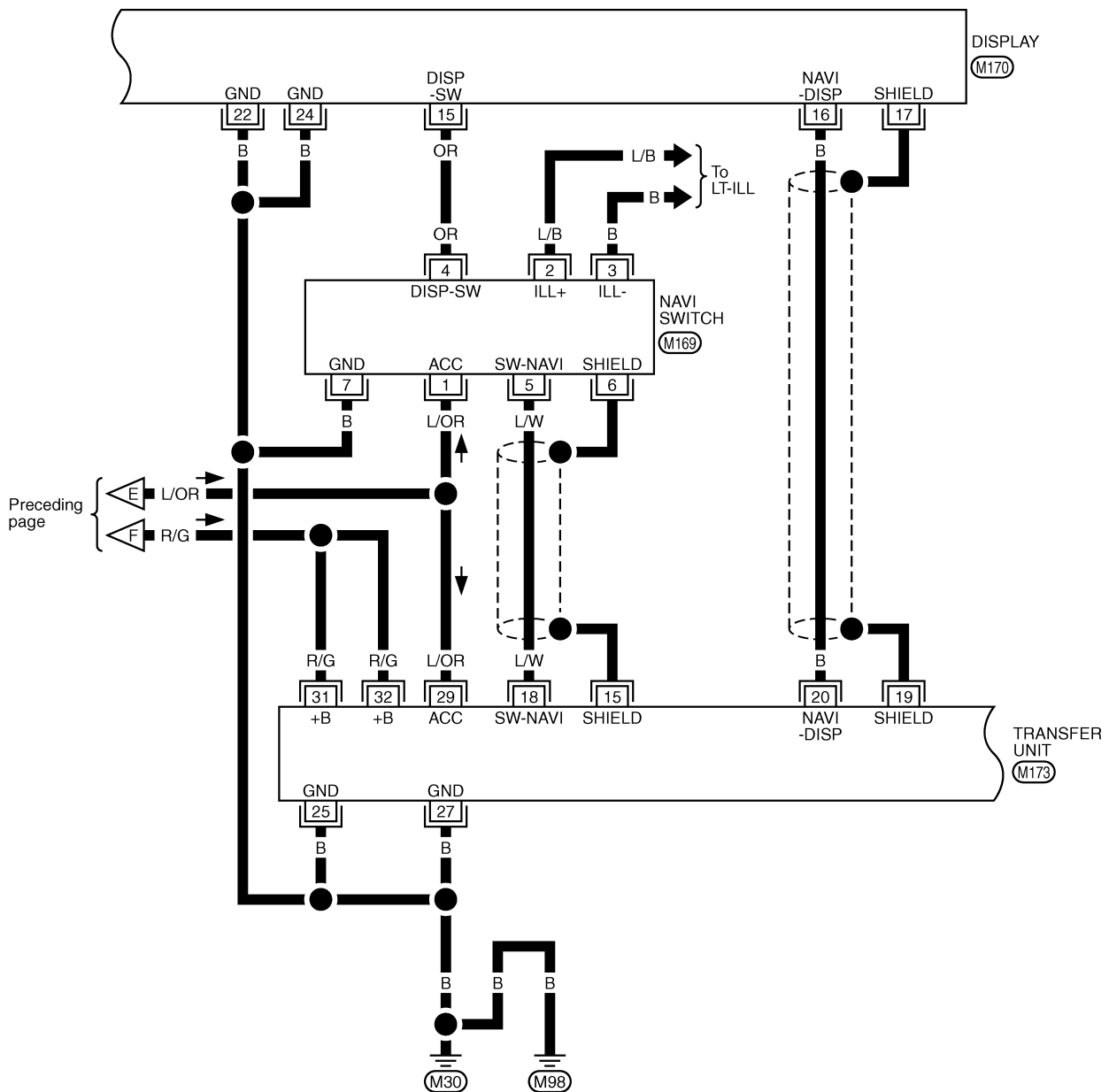
★: This connector is not shown in "HARNESS LAYOUT", EL section.

TEL076N

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-03



3	2	1
8	7	6
5	4	

M169
W

24	22	20	18	16	14	10	8	6	4	2
23	21	19	17	15	13	12	11	9	7	5
3	1									

M170
GY

32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1

M173
W

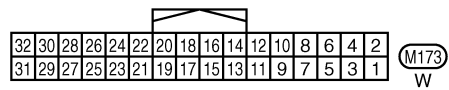
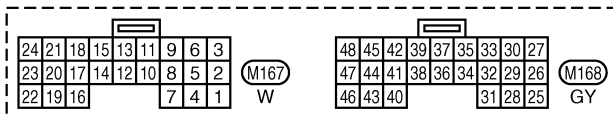
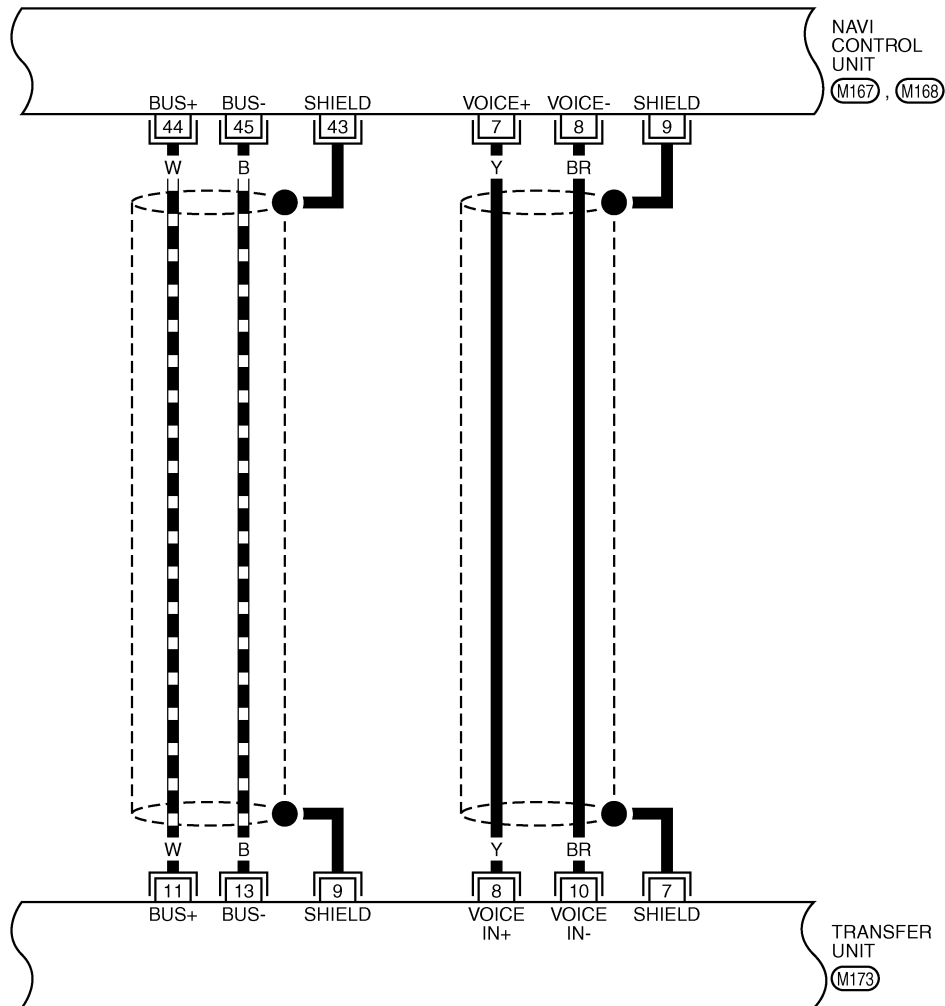
TEL077N

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-04

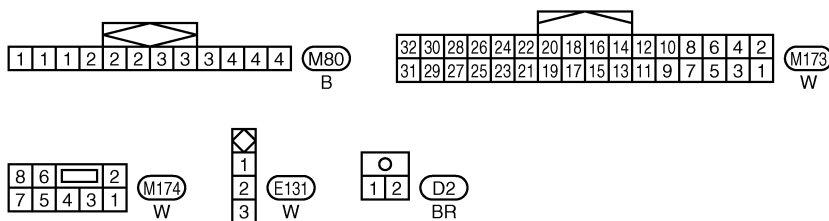
DATA LINE



TEL078N

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-05

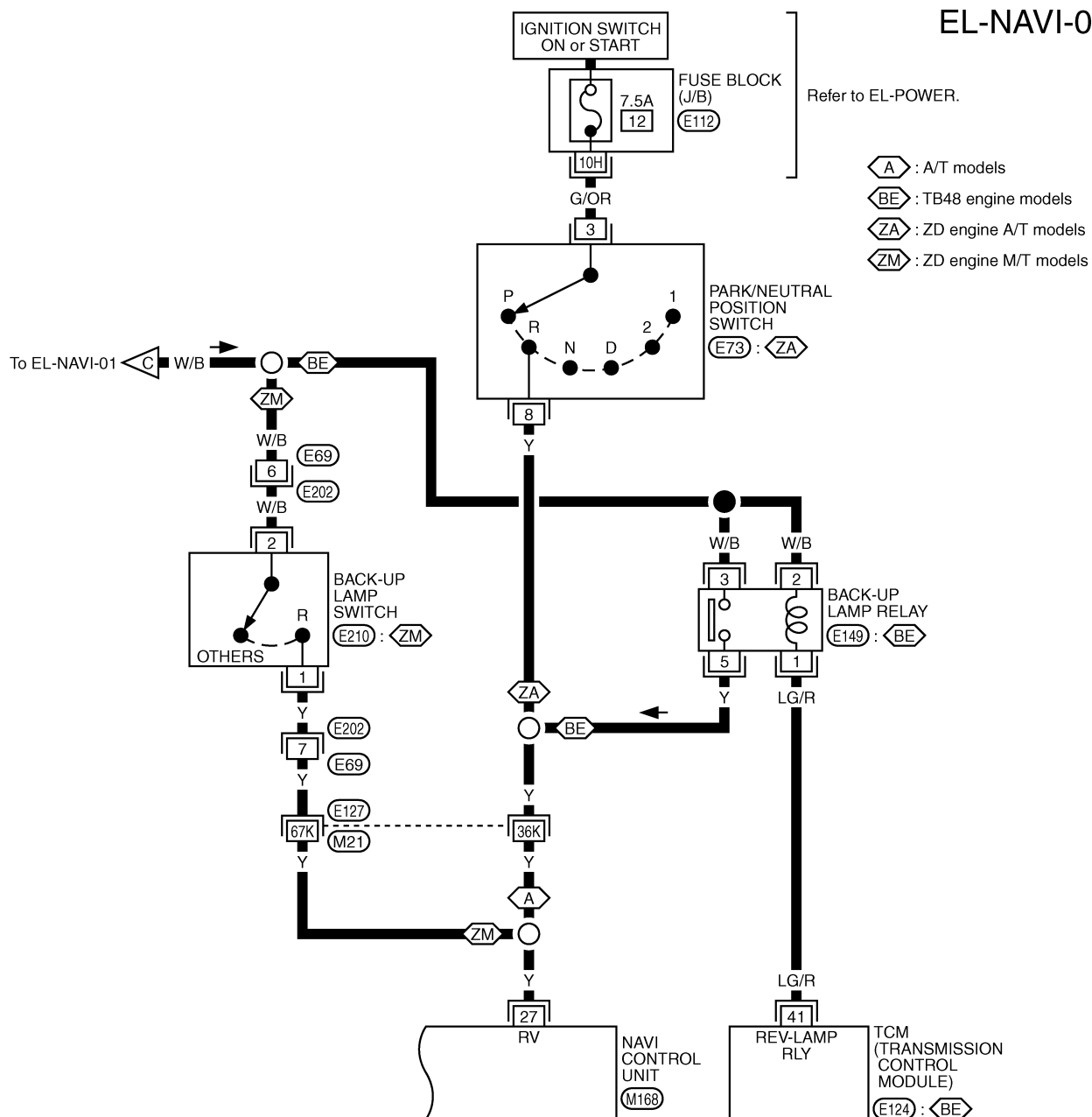


M22, D1

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-06



48	45	42	39	37	35	33	30	27
47	44	41	38	36	34	32	29	26
46	43	40				31	28	25

(M168)
GY

6	5	4	3
9	8	7	

(E73)
GY

	3	
	5	
1	X	2

(E149)
L

1	2	3	4
5	6	7	8

(E202)
B

1	2
---	---

(E210)
GY

Refer to last page (Foldout page).

(M21), (E127)

(E112)

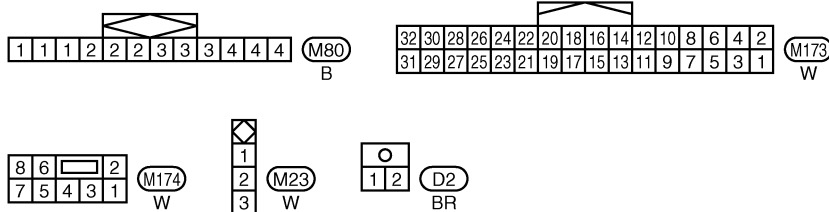
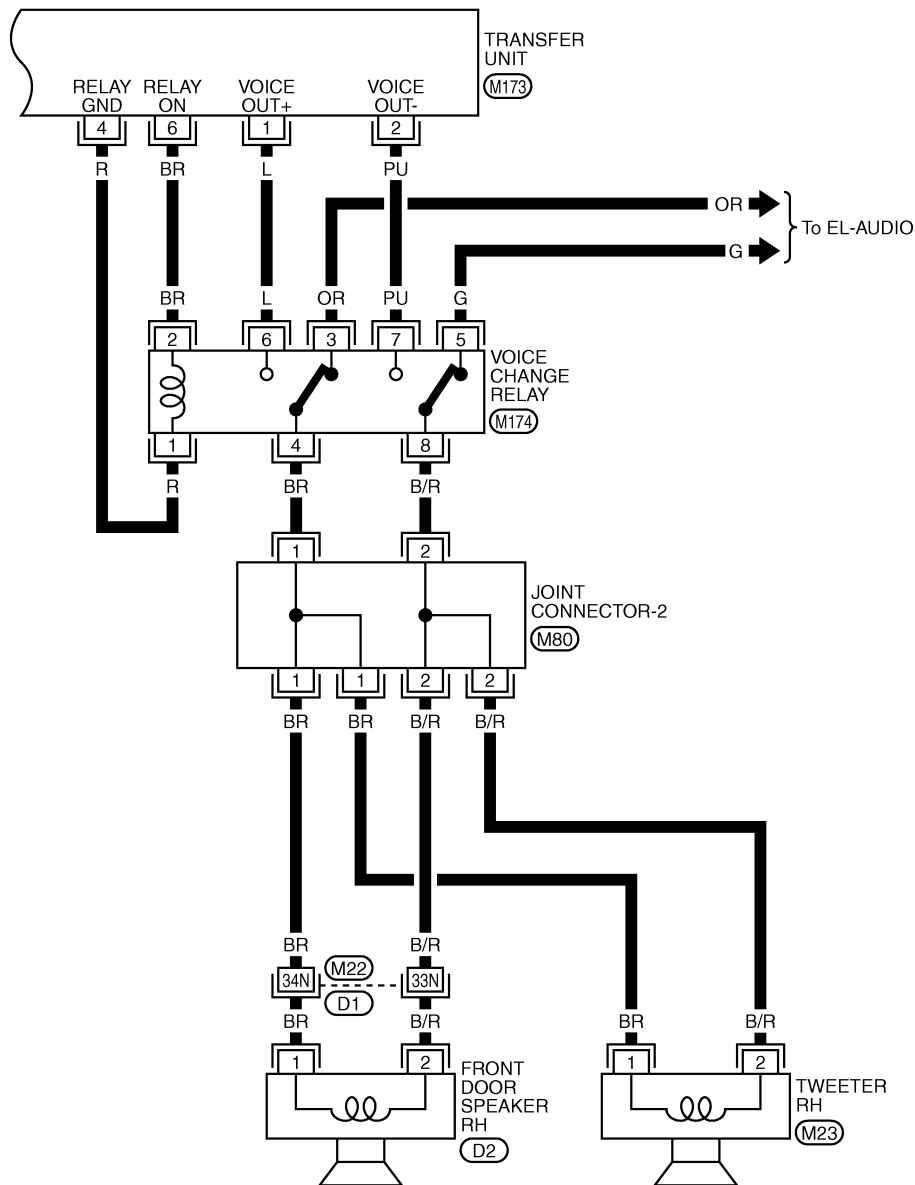
(E124)

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

RHD MODELS

EL-NAVI-07



Refer to last page (Foldout page).

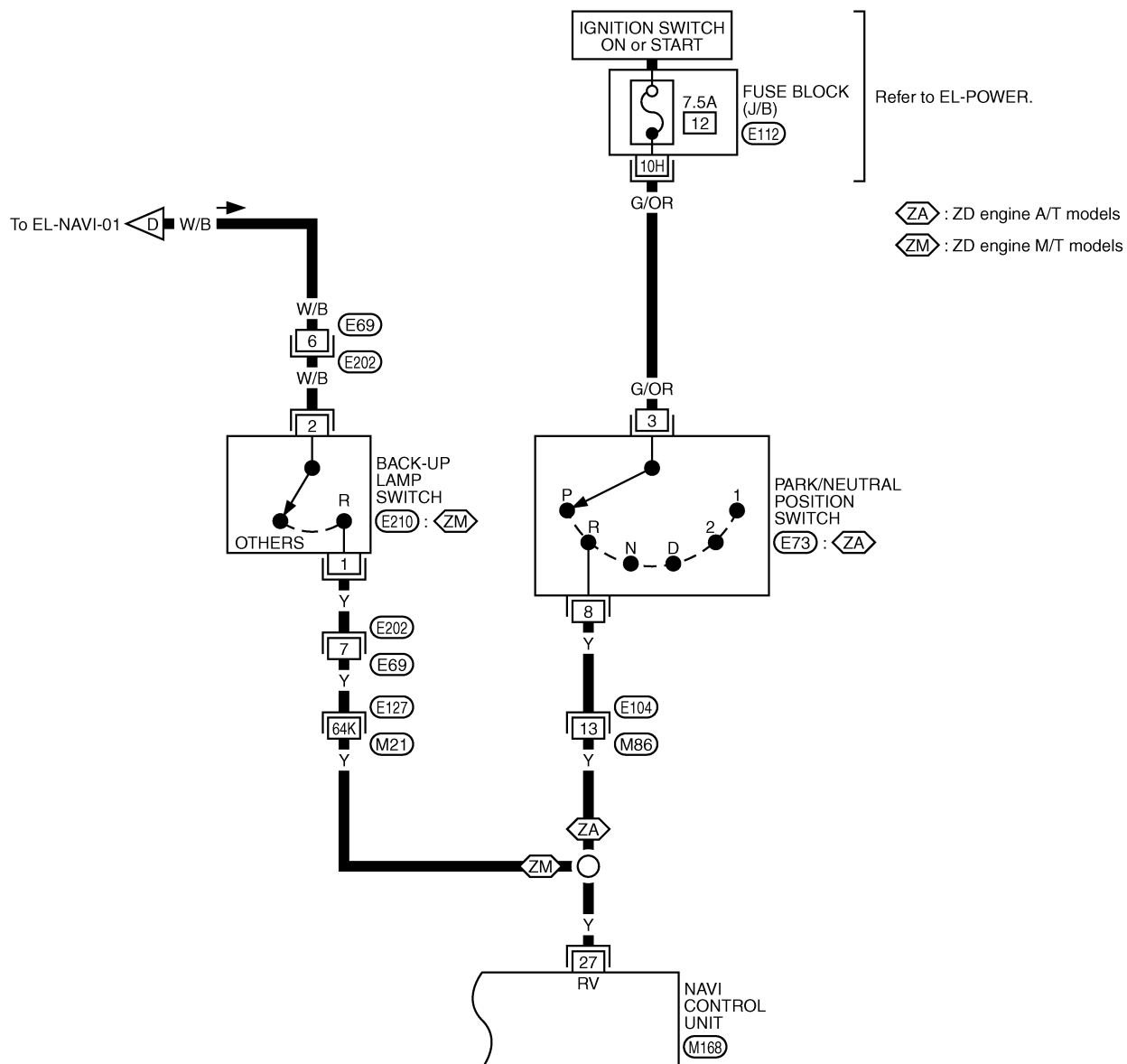
M22, D1

TEL081N

NAVIGATION SYSTEM

Wiring Diagram — NAVI — (Cont'd)

EL-NAVI-08



48	45	42	39	37	35	33	30	27
47	44	41	38	36	34	32	29	26
46	43	40				31	28	25

M168
GY

6	5	4	3
9	8	7	

E73
GY

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

E104
BR

1	2	3	4
5	6	7	8

E202
B

1	2
---	---

E210
GY

Refer to last page (Foldout page).

M21, E127

E112

TEL082N

NAVIGATION SYSTEM

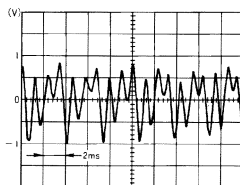
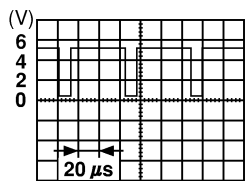
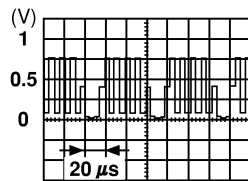
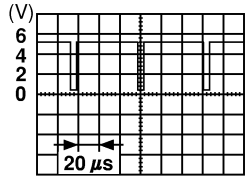
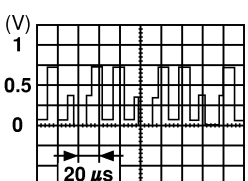
Terminals and Reference Value for NAVI Control Unit

- Measure using circuit tester and oscilloscope.
- Measure with connector connected unless otherwise specified.

CAUTION:

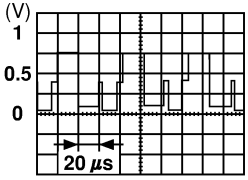
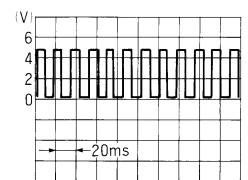
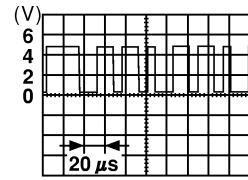
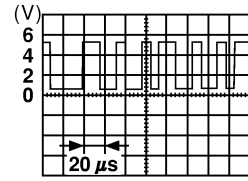
Confirm voltage between negative terminal on each unit and ground is approximately 0V.

- If ignition switch ON is required in measurement condition, measure with engine running to prevent battery discharge.

Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
1 (B)	Ground	Ground	—	ON	—	Approx. 0V	—
2 (R/G)	Ground	Battery	Input	—	—	Battery voltage	System does not work properly.
3 (R/G)							
4 (B)	Ground	Ground	—	ON	—	Approx. 0V	—
6 (L/OR)	Ground	ACC power	Input	ACC	—	Battery voltage	System does not work properly.
7 (Y)	8 (BR)	Voice guide signal	Output	ON	Push the "VOICE" switch	 SKIA0171J	Only route guide and operation guide are not heard.
9	—	Shield	—	—	—	—	—
12 (R)	17	RGB area signal	output	ON	Push the "D/N" switch.	 SKIA0162E	RGB screen is not shown.
15 (B)	17	RGB signal (B: blue)	Output	ON	Select "Color bar" of CONFIRMATION/ADJUSTMENT function.	 SKIA0167E	RGB screen looks yellowish.
16 (W)	17	RGB synchronizing signal	Output	ON	Push the "MAP" switch.	 SKIA0164E	RGB screen is rolling.
17	Ground	RGB shield	—	ON	—	Approx. 0V	—
18 (R)	17	RGB signal (R: red)	Output	ON	Select "Color bar" of CONFIRMATION/ADJUSTMENT function.	 SKIA0165E	RGB screen looks bluish.

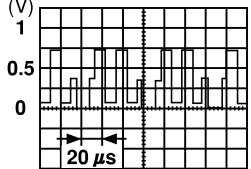
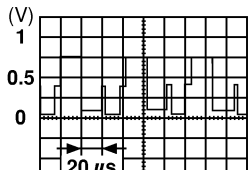
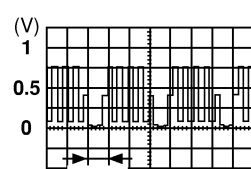
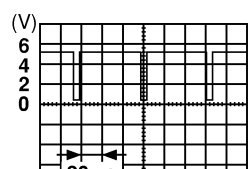
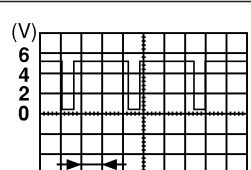
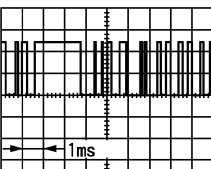
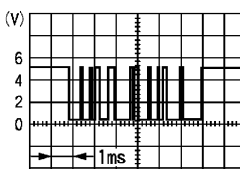
NAVIGATION SYSTEM

Terminals and Reference Value for NAVI Control Unit (Cont'd)

Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
21 (G)	17	RGB signal (G: green)	Output	ON	Select "Color bar" of CONFIRMATION/ ADJUSTMENT function.	 SKIA0166E	RGB screen looks red- dish.
25 (L/B)	Ground	Illumination signal	Input	ON	Lighting switch position 1st or 2nd	Battery voltage	Night illumination for switches does not illumi- nate.
					Lighting switch position OFF	Approx. 0V	
26 (R/W)	Ground	IGN signal	Input	ON	—	Battery voltage	Vehicle information setting is not possible.
27 (Y)	Ground	Reverse signal	Input	ON	Select R-position	Battery voltage	The navigation current location mark moves strangely when the vehicle is moving back- wards.
					Other position	Approx. 0V	
28 (R/W)	Ground	Vehicle speed signal	Input	ON	When vehicle speed is approx. 40 km/h (25 MPH)	 ELF1084D	Navigation current loca- tion mark does not indi- cate the correct position.
43	—	Shield	—	—	—	—	—
44 (W)	43	Communica- tion signal (+)	Input/ Output	ON	—	 SKIA0175E	System does not work properly.
45 (B)	43	Communica- tion signal (—)	Input/ Output	ON	—	 SKIA0176E	System does not work properly
49	Ground	GPS antenna sig- nal	Input	ON	Connector is not connected.	Approx. 5V	GPS correction is not possible.
50	—	Shield	—	—	—	—	—

NAVIGATION SYSTEM

Terminals and Reference Value for Display

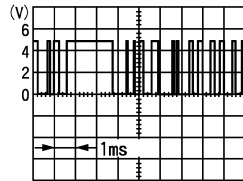
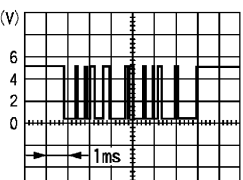
Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
1 (R)	4	RGB signal (R: red)	Input	ON	Select "Color bar" of CONFIRMATION/ ADJUSTMENT func- tion.	 SKIA0165E	RGB screen looks blu- ish.
2 (G)	4	RGB signal (G: green)	Input	ON	Select "Color bar" of CONFIRMATION/ ADJUSTMENT func- tion.	 SKIA0166E	RGB screen looks red- dish.
3 (B)	4	RGB signal (B: blue)	Input	ON	Select "Color bar" of CONFIRMATION/ ADJUSTMENT func- tion.	 SKIA0167E	RGB screen looks yel- lowish.
4	—	Shield	—	—	—	—	—
7 (W)	4	RGB syn- chronizing signal	Input	ON	Push the "MAP" switch.	 SKIA0164E	RGB screen is rolling.
8 (R)	Ground	RGB area signal	Input	ON	Push the "D/N" switch.	 SKIA0162E	RGB screen is not shown.
15 (OR)	Ground	Communica- tion signal (DISP-SW)	Output	ON	Push the "INFO" switch.	 SKIA0835E	System does not work properly.
16 (B)	17	Communica- tion signal (NAVI-DISP)	Input	ON	Push the "INFO" switch.	 SKIA0832E	System does not work properly.

NAVIGATION SYSTEM

Terminals and Reference Value for Display (Cont'd)

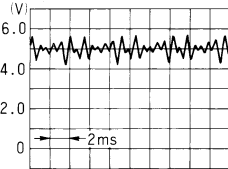
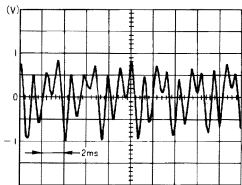
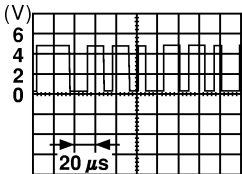
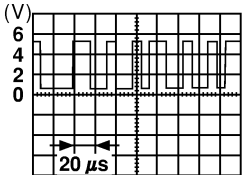
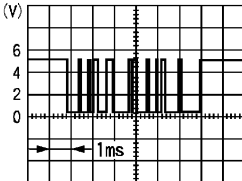
Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
17	—	Shield	—	—	—	—	—
19 (L/OR)	Ground	ACC power	Input	ACC	—	Battery voltage	System does not work properly.
21 (R/G)	Ground	Battery power supply	Input	—	—	Battery voltage	System does not work properly.
22 (B)	Ground	Ground	—	ON	—	Approx. 0V	—
23 (R/G)	Ground	Battery power supply	Input	—	—	Battery voltage	System does not work properly.
24 (B)	Ground	Ground	—	ON	—	Approx. 0V	—

Terminals and Reference Value for NAVI Switch

Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
1 (L/OR)	Ground	ACC power	Input	ACC	—	Battery voltage	All operations do not work.
2 (L/B)	3 (B)	Illumination signal	Input	ON	Lighting switch position 1st or 2nd	Battery voltage	Night illumination for switches does not illuminate.
					Lighting switch position OFF	Approx. 0V	
4 (OR)	Ground	Communication signal (DISP-SW)	Input	ON	Push the "INFO" switch	 SKIA0835E	System does not work properly.
5 (L/W)	6	Communication signal (SW-NAVI)	Output	ON	Push the "INFO" switch	 SKIA0832E	System does not work properly.
6	—	Shield	—	—	—	—	—
7 (B)	Ground	Ground	—	ON	—	Approx. 0V	All operations do not work.

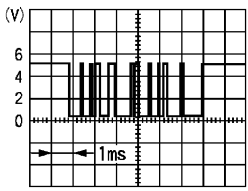
NAVIGATION SYSTEM

Terminals and Reference Value for Transfer Unit

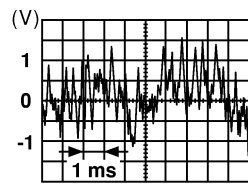
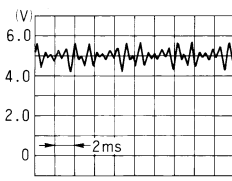
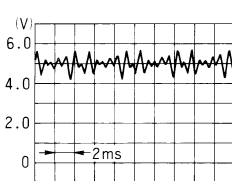
Terminal No. (wire color)		Item	Signal input/ output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
1 (L)	2 (PU)	Voice guide signal	Output	ON	Push the "VOICE" switch	 ELL0234D	Only route guide and operation guide are not heard.
6 (BR)	4 (R)	Voice change relay ON signal	Output	ON	Push the "VOICE" switch	Approx. 5V	Only route guide and operation guide are not heard.
7	—	Shield	—	—	—	—	—
8 (Y)	10 (BR)	Voice guide signal	Input	ON	Push the "VOICE" switch	 SKIA0171E	Only route guide and operation guide are not heard.
9	—	Shield	—	—	—	—	—
11 (W)	9	Communication signal (+)	Input/Output	ON	—	 SKIA0175E	System does not work properly.
13 (B)	9	Communication signal (-)	Input/Output	ON	—	 SKIA0176E	System does not work properly.
15	—	Shield	—	—	—	—	—
18 (L/W)	15	Communication signal (SW-NAVI)	Input	ON	—	 SKIA0832E	System does not work properly.
19	—	Shield	—	—	—	—	—

NAVIGATION SYSTEM

Terminals and Reference Value for Transfer Unit (Cont'd)

Terminal No. (wire color)		Item	Signal input/output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
20 (B)	19	Communication signal (NAVI-DISP)	Input	ON	—	 SKIA0832E	System does not work properly.
25 (B)	Ground	Ground	—	ON	—	Approx. 0V	—
27 (B)	Ground	Ground	—	ON	—	Approx. 0V	—
29 (L/OR)	Ground	ACC power	Input	ACC	—	Battery voltage	System does not work properly.
31 (R/G)	Ground	Battery	Input	OFF	—	Battery voltage	System does not work properly.
32 (R/G)	Ground	Battery	Input	OFF	—	Battery voltage	System does not work properly.

Terminals and Reference Value for Voice Change Relay

Terminal No. (wire color)		Item	Signal input/output	Condition		Reference value	Example of symptom
(+)	(-)			Ignition switch	Operation		
2 (BR)	1 (R)	Voice change relay ON signal	Input	ON	Push the "VOICE" switch	Approx. 5V	Only route guide and operation guide are not heard.
3 (OR)	5 (G)	Audio sound signal	Input	ON	Receive audio signal	 SKIA0177E	No sound from door speaker and tweeter LH
4 (L) ^{*1} (BR) ^{*2}	8 (B/W) ^{*1} (B/R) ^{*2}	Voice guide signal	Output	ON	Push the "VOICE" switch	 ELL0234D	Only route guide and operation guide are not heard.
6 (L)	7 (PU)	Voice guide signal	Input	ON	Push the "VOICE" switch	 ELL0234D	Only route guide and operation guide are not heard.

*1 : LHD models.

*2 : RHD models.

NAVIGATION SYSTEM

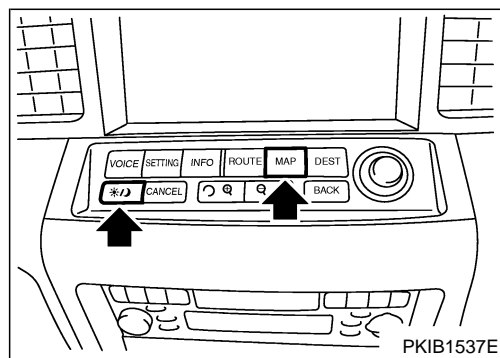
Self-Diagnosis Function

DESCRIPTION

- Diagnosis function consists of the self-diagnosis mode performed automatically and the CONFIRMATION/ADJUSTMENT mode operated manually.
- Self-diagnosis mode checks for connections between the units constituting this system, analyzes each individual unit at the same time, and displays the results on the LCD screen.
- CONFIRMATION/ADJUSTMENT mode is used to perform trouble diagnosis that require operation and judgment by an operator (malfunction that cannot be automatically judged by the system), to check/change the set value, and to display the History of Errors of the navigation system.

DIAGNOSIS ITEM

Mode		Description	
Self-diagnosis		<ul style="list-style-type: none">● NAVI Control unit diagnosis (DVD-ROM drive will not be diagnosed when no map DVD-ROM is in it.).● Performs diagnosis of each unit and connections between control unit and GPS antenna, as well as between control unit and each unit.	
Confirmation/ Adjustment	Display	Color tone and shading of the screen can be checked by the display of a color bar and a gray scale.	
	Vehicle signals	Analyzes the following vehicle signals: Vehicle speed signal, light signal, ignition switch signal, and reverse signal.	
	Navigation	Display Longitude & Latitude	Display the map. Use the joystick to adjust position. Longitude and latitude will be displayed.
		Speed Calibration	Under ordinary conditions, the navigation system distance measuring function will automatically compensate for minute decreases in wheel and tire diameter caused by tire wear or low-pressure. Speed calibration immediately restores system accuracy in cases such as when distance calibration is needed because of the use of tire chains in inclement weather.
		Angle Adjustment	Corrects difference between actual turning angle of a vehicle and turning angle of the car mark on the display.
		Initialize Location	This mode is for initializing the current location. Use when the vehicle is transported a long distance on a trailer, etc.
	History of Errors	Diagnosis results previously stored in the memory (before turning ignition switch ON) are displayed in this mode. Time and location when/where the errors occurred are also displayed.	



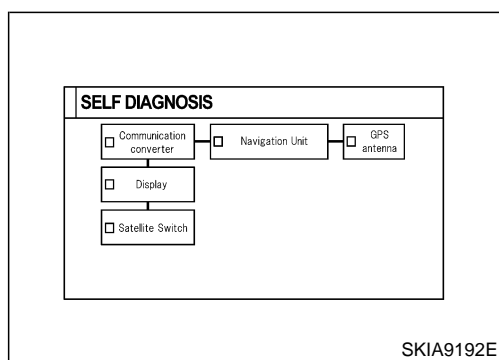
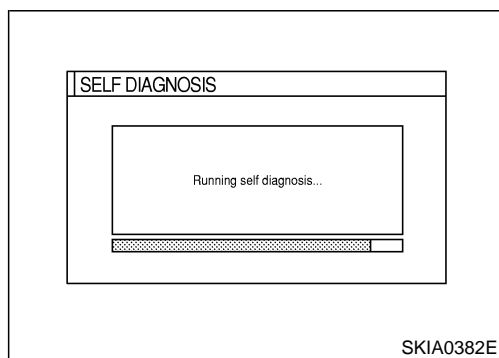
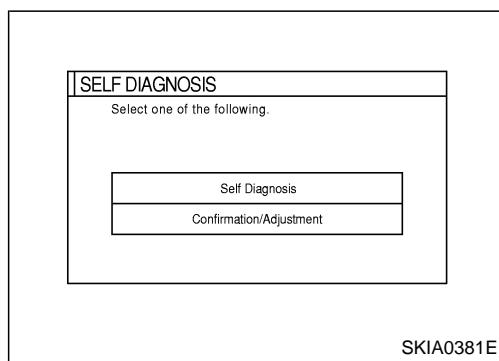
Self-Diagnosis Mode

OPERATION PROCEDURE

1. Start the engine.
2. Push and hold "MAP" and "DAY/NIGHT" switches simultaneously for 5 seconds or more.
 - Push the "BACK" switch and the initial system screen will be shown.

NAVIGATION SYSTEM

Self-Diagnosis Mode (Cont'd)



- The initial trouble diagnosis screen will be shown, and items "Self-Diagnosis" and "Confirmation/Adjustment" will become selective.

- Perform self-diagnosis by selecting the "Self-Diagnosis".
 - Self-diagnosis subdivision screen will be shown and the operation enters the self-diagnosis mode.
 - A bar graph shown below the self-diagnosis subdivision screen indicates progress of the diagnosis.

- On the "SELF-DIAGNOSIS" screen, each unit name will be colored according to the diagnosis result, as follows.

Green: No malfunctioning.

Yellow: Cannot be judged by self-diagnostic results.

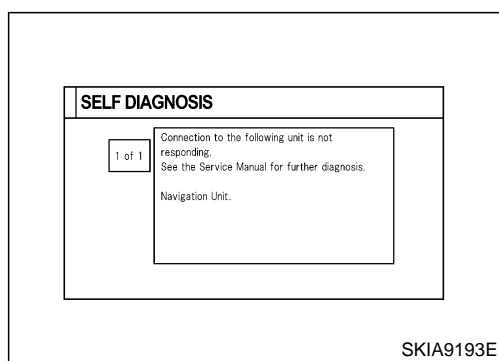
Red: Unit is malfunctioning.

Gray: Diagnosis has not been done.

- If several malfunctions are present in a unit, color of its switch on the screen will be either red, yellow, or gray, determined by the malfunction of the highest priority.
- Lines between navigation unit and GPS antenna are green or yellow based on diagnosis results.
- Lines between control unit and units other than those above are gray regardless of diagnosis results.

CAUTION:

- Navigation Unit = NAVI control unit**
- Communication converter = Transfer unit**
- Satellite Switch = NAVI switch**



- Select a switch on the "SELF-DIAGNOSIS" screen and comments for the diagnosis results will be shown.
 - When the switch is green, the following comment will be shown. "Self-Diagnosis was successful. Further diagnosis and adjustments are recommended. Follow the "confirmation/adjustments" menu or refer to the service manual."
 - When the switch is yellow, the following comment will be shown. "Connection to the following unit is not responding. See the service manual for further diagnosis."
 - When the switch is red, the following comment will be shown. "Navigation Unit is abnormal."

NAVIGATION SYSTEM

Self-Diagnosis Mode (Cont'd)

- When the switch is gray, the following comment will be shown. "Self-diagnosis for DVD-ROM DRIVER of NAVI was not conducted due to no insertion of DVD-ROM."

SELF-DIAGNOSIS RESULT

Quick reference table

- Select an applicable diagnosis No. in the diagnosis result quick reference table.
- Find estimated malfunctioning system in the diagnosis No. table and perform check.
- Turn the ignition switch to OFF and perform self-diagnosis again.

Diagnosis result quick reference table

Screen switch			Diagnosis No.
Switch color	Navigation Unit	GPS antenna	
Red	x		1
Gray	x		2
Yellow	x		3
	x		4
	x	x	5

CAUTION:

Check the following when the self-diagnosis mode cannot be used.

- NAVI control unit power supply and ground.
- Display power supply and ground.
- NAVI switch power supply and ground.
- Transfer unit power supply and ground.
- AV communication line between NAVI switch and Display, AV communication line between Display and Transfer unit, AV communication line between Transfer unit and NAVI control unit.

Method of diagnosis for malfunctioning system

- When system does not start, indicate malfunction connection between units by outbreak sound from system.

Diagnosis procedure.

- Turn ignition switch ON. Make sure whether or not route guide start sound which is output from NAVI control unit indicate 10 seconds after.
- Push and hold "MAP" and "DAY/NIGHT" switches simultaneously for 5 seconds or more. Make sure whether or not 2 times of beep sound or route guide start sound indicate.
- According to the former two steps, select an proper diagnosis No. in the diagnosis result quick reference table.
- Find estimated malfunctioning system from the diagnosis No. table and perform check.

Diagnosis result quick reference table

Procedure 1	Procedure 2	Diagnosis No.
10 seconds after turn ignition switch ON.	Push and hold "MAP" and "DAY/NIGHT" switches simultaneously for 5 seconds or more.	
Route guide start sound appears	Route guide start sound indicates	6
	There is no sound	7
There is no sound	Two times of beep sound from NAVI switch *	8
	There is no sound	9

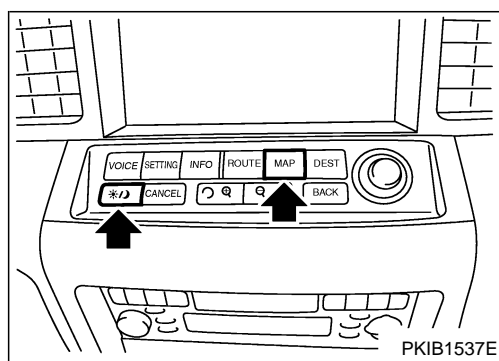
*: Indicated when pushing both "MAP" and "DAY/NIGHT" simultaneously. (Unnecessary to push them 5 seconds or more.)

NAVIGATION SYSTEM

Self-Diagnosis Mode (Cont'd)

Self-diagnosis codes

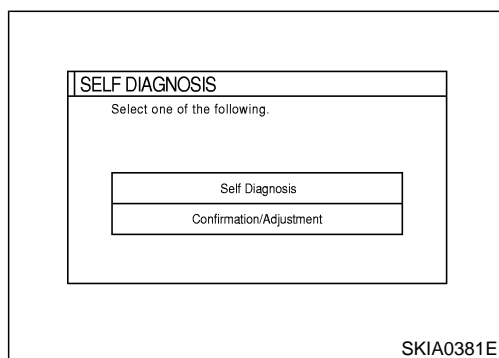
Diagnosis No.	Possible cause	Reference page
1	NAVI control unit malfunction	—
2	NAVI control unit judged no map DVD-ROM is inserted.	—
3	When “DVD-ROM is not recognized. Please check the disc.” is shown. 1. Eject map DVD-ROM and check if it is compatible with the system. 2. Check ejected DVD-ROM for dirt, damage, and warps. 3. If no error is found, insert a known good map DVD-ROM of the same type and perform self-diagnosis again. If same result is shown, the NAVI control unit is malfunctioning. If result is normal, the map DVD-ROM is malfunctioning.	—
4	If “Error found in DVD-ROM or DVD-ROM driver in control unit. Please perform diagnosis in accordance with service manual” is shown, performed same inspection as diagnosis No. 3.	—
5	GPS antenna system 1. Visually check for a broken wire in the GPS antenna coaxial cable. 2. Disconnect the GPS antenna connector and make sure that approximately 5V is supplied from NAVI control unit. If not, the NAVI control unit is inoperative. If the voltage is supplied, replace the GPS antenna and perform self-diagnosis again. If the same result is shown, the NAVI control unit is inoperative.	—
6	Display power supply and ground circuit. Communication line between display and NAVI switch.	EL-4203
7	NAVI switch power supply and ground circuit. Communication line between NAVI switch and transfer unit.	EL-4204
8	NAVI control unit power supply and ground circuit. Communication line between NAVI control unit and transfer unit.	EL-4204
9	Transfer unit power supply and ground circuit. Communication line between transfer unit and display.	EL-4205



Confirmation/Adjustment Mode

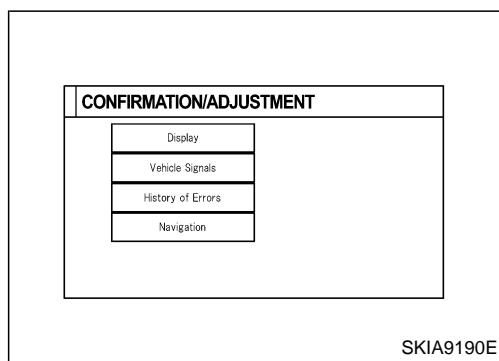
OPERATION PROCEDURE

1. Start the engine.
2. Push and hold “MAP” and “DAY/NIGHT” switches simultaneously for 5 seconds or more.
 - Push the “BACK” switch and the initial system screen will be shown.
3. The initial trouble diagnosis screen will be shown, and items “Self-Diagnosis” and “Confirmation/Adjustment” will become selective.



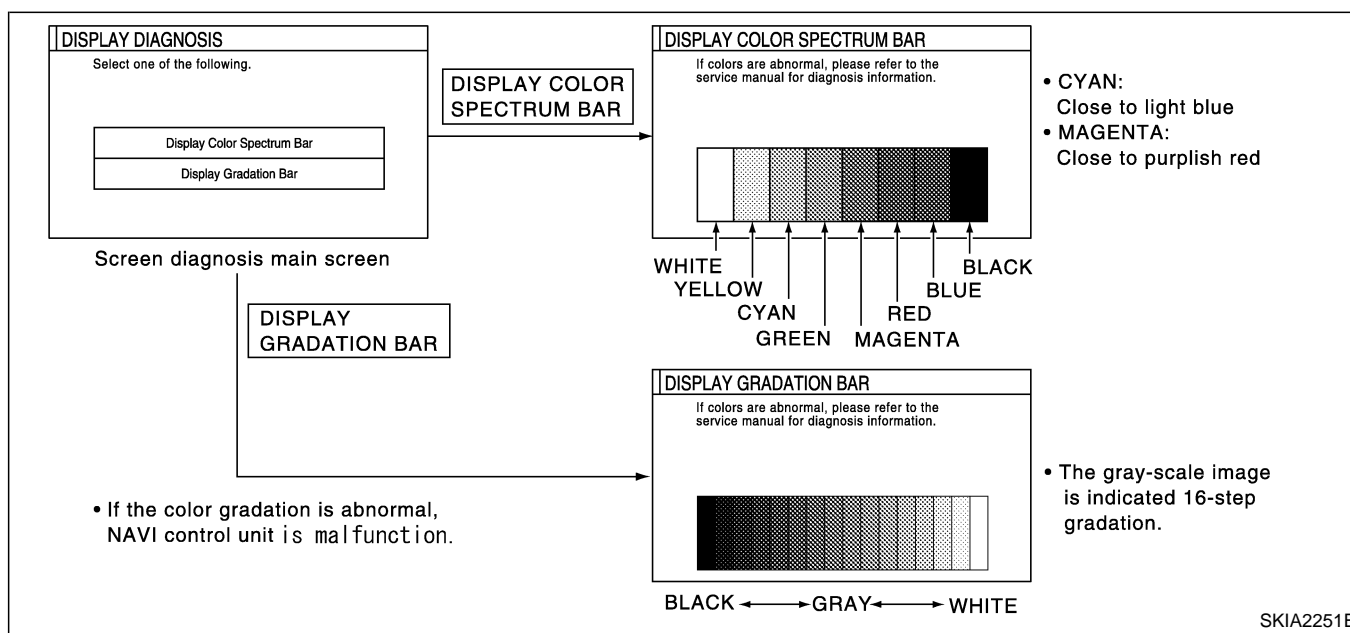
NAVIGATION SYSTEM

Confirmation/Adjustment Mode (Cont'd)



- When "Confirmation/Adjustment" is selected on the initial trouble diagnosis screen, the operation will enter the CONFIRMATION/ADJUSTMENT mode. In this mode, check and adjustment of each item will become possible.
- Select each switch on "Confirmation/Adjustment" screen to display the relevant diagnosis screen.

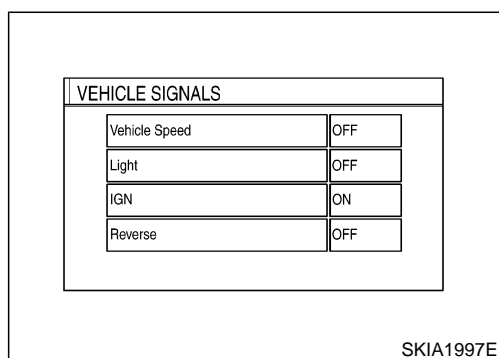
DISPLAY



CAUTION:

When Display Color Spectrum Bar screen is completed after "BACK" switch is Pushed, the screen color changes once. This is normal.

- When RGB signal error occurred in the RGB system, tone of the color bar will change as follows.
 - R (red) signal error: Screen looks bluish.**
 - G (green) signal error: Screen looks reddish.**
 - B (blue) signal error: Screen looks yellowish.**
- When the color of the screen looks unusual, refer to EL-4209.



VEHICLE SIGNALS

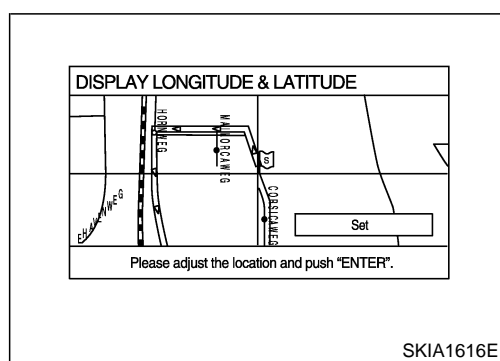
- A comparison check can be made of each actual vehicle signal and the signals recognized by the system.

NAVIGATION SYSTEM

Confirmation/Adjustment Mode (Cont'd)

Diagnosis item	Display	Condition	Remarks
Vehicle speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed by approx. 1.5 seconds. This is normal.
	OFF	Vehicle speed = 0 km/h (0 MPH)	
	—	Ignition switch in ACC position	
Light	ON	Lighting switch ON	—
	OFF	Lighting switch OFF	
IGN	ON	Ignition switch ON	—
	OFF	Ignition switch ACC	
Reverse	ON	Selector lever in R position	Changes in indication may be delayed by approx. 1.5 seconds. This is normal.
	OFF	Selector lever in other than R position	
	—	Ignition switch in ACC position	

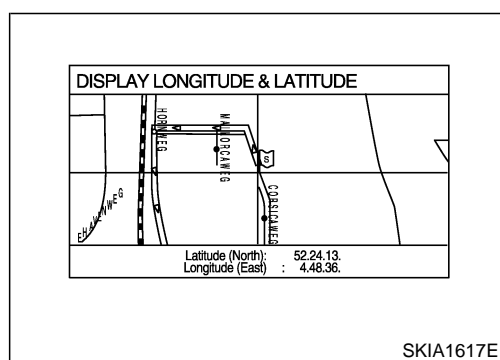
- If vehicle speed is NG, refer to EL-4206.
- If light is NG, refer to EL-4207.
- If IGN is NG, refer to EL-4208.
- If reverse is NG, refer to EL-4208.



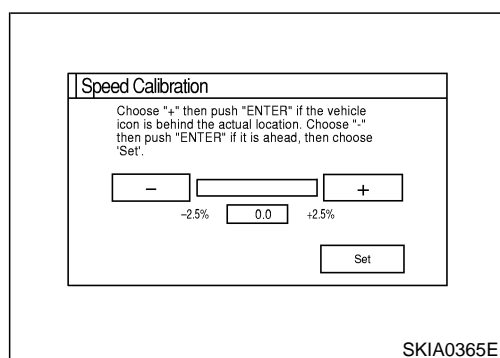
NAVIGATION

Display longitude & latitude

- Adjust the pointer with using the joystick and touch "Set".



- The longitude and latitude are displayed.



Speed calibration

- During normal driving, distance error caused by tire wear and tire pressure change is automatically adjusted for by the automatic distance correction function. This function, on the other hand, is for immediate adjustment, in cases such as driving with tire chain fitted on tires.

NAVIGATION SYSTEM

Confirmation/Adjustment Mode (Cont'd)

Angle adjustment

- Adjust turning angle output detected by the gyroscope.

ANGLE ADJUSTMENT

Select "+" in case the car mark makes larger turn than reality and vice versa.

— 0.0 +

-2.5% +2.5%

☐ Left turn ☐ Right turn Set

SKIA0364E

Initialize location

Description

- Location data for GPS in the Center control unit is initialized in Europe by this mode. Then it is possible for Center control unit to receive GPS signals for short time.

How to perform "Initialize Location" mode

- Select "Initialize Location", and push "ENTER".

NAVIGATION

Display Longitude & Latitude

Speed Calibration

Angle Adjustment

Initialize Location

SKIA1618E

- A message "Please wait." is displayed and then backs to another display of "Confirmation/Adjustment" mode.

NOTE:

- To continue GPS initialized operation, operate as follows back to "Map" screen.
 - Push "BACK" button twice.
 - Push "MAP" button.
- After above operation, GPS indicator changes to green color within half a minute, unless improper GPS located condition.
- This operation should be performed in out side field.

NAVIGATION

Display Longitude & Latitude

Speed Calibration

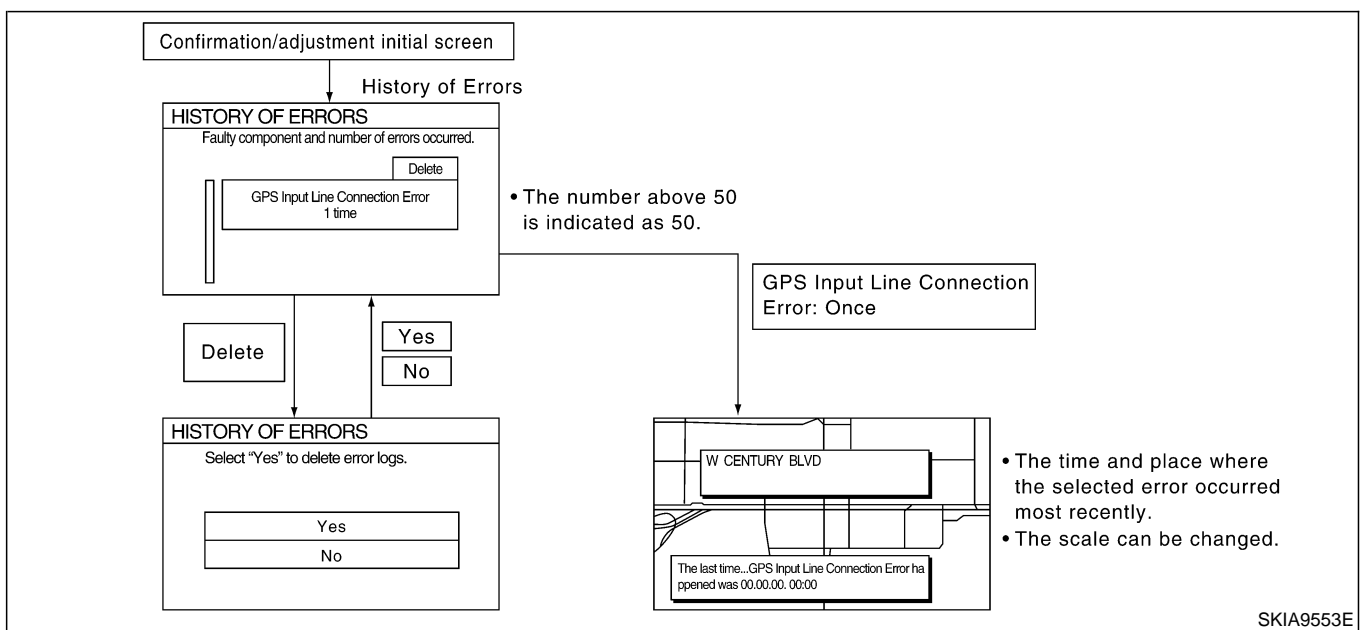
Angle Adjustment

Initialize Location

Please wait.

SKIA1619E

HISTORY OF ERRORS



NAVIGATION SYSTEM

Confirmation/Adjustment Mode (Cont'd)

DIAGNOSIS BY HISTORY OF ERRORS

The "Self-diagnosis" results indicate whether an error occurred during the period from when the ignition switch is turned to ON until "Self-diagnosis" is completed.

If an error occurred before the ignition switch was turned to ON and does not occur again until the "Self-diagnosis" is completed, the diagnosis result will be judged normal. Therefore, those errors in the past, which cannot be found by the "Self-diagnosis", must be found by diagnosing the "History of Errors".

The History of Errors displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- Correct time of the error occurrence may not be displayed when the GPS antenna substrate within the NAVI control unit has malfunctioned.
- Place of the error occurrence is represented by the position of the current location mark at the time when the error occurred. If the current location mark has deviated from the correct position, then the place of the error occurrence may be located correctly.
- The maximum number of occurrences which can be stored is 50. For the 51st and later occurrences, the displayed number remains 50.

When a reproducible malfunction occurred but its cause cannot be identified because several errors are present, record the item, number and place (longitude/latitude) of error occurrence (or delete the History of Errors), then turn the ignition switch from OFF to ON to reproduce the malfunction. Check the History of Errors to find the items which show an increased number of occurrences, and diagnose the item.

Error item	Possible causes	Example of symptom
	Action/symptom	
Gyro sensor disconnected	Communications malfunction between NAVI control unit and internal gyro	<ul style="list-style-type: none"> ● Navigation location detection performance has deteriorated. (Angular velocity cannot be detected.)
	<ul style="list-style-type: none"> ● Perform self-diagnosis. ● When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS disconnected	Communication error between NAVI control unit and internal GPS substrate	<ul style="list-style-type: none"> ● Navigation location detection performance has deteriorated. (Location correction using GPS is not performed.) ● GPS receiving status remains gray.
	<ul style="list-style-type: none"> ● Perform self-diagnosis. ● When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS transmission cable malfunction	Malfunctioning transmission wires to NAVI control unit and internal GPS substrate	<ul style="list-style-type: none"> ● During self-diagnosis, GPS diagnosis is not performed.
	<ul style="list-style-type: none"> ● Perform self-diagnosis. ● When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS input line connection error	Malfunctioning receiving wires to NAVI control unit and internal GPS substrate	<ul style="list-style-type: none"> ● Navigation location detection performance has deteriorated. (Location correction using GPS is not performed.) ● GPS receiving status remains gray.
	<ul style="list-style-type: none"> ● Perform self-diagnosis. ● When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS TCXO over GPS TCXO under	Oscillating frequency of the GPS substrate frequency synchronizing oscillation circuit exceeded (or below) the specification	<ul style="list-style-type: none"> ● Navigation location detection performance has deteriorated. (Location correction using GPS is not performed.) ● GPS receiving status remains gray.
	<ul style="list-style-type: none"> ● Perform self-diagnosis. ● When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference, or the control unit may have been subjected to excessively high or low temperatures. 	

NAVIGATION SYSTEM

Confirmation/Adjustment Mode (Cont'd)

Error item	Possible causes	Example of symptom
	Action/symptom	
GPS ROM malfunction GPS RAM malfunction	Contents of ROM (or RAM) in GPS substrate are malfunctioning.	<ul style="list-style-type: none"> Location detection accuracy of the navigation system will deteriorate, depending on the malfunctioning area in the memory, because GPS cannot make correct positioning. (Location correction using GPS is not performed.)
	<ul style="list-style-type: none"> Perform self-diagnosis. When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS RTC malfunction	Clock IC in GPS substrate is malfunctioning.	<ul style="list-style-type: none"> Correct time may not be displayed. After the power is turned on, the system always takes some time until GPS positioning becomes possible. (The GPS receiver starts positioning without re-collecting the whole satellite information when it judged the data stored in the receiver is correct.) Correct time of error occurrence may not be stored in the "History of Errors".
	<ul style="list-style-type: none"> Perform self-diagnosis. When the NAVI control unit is judged normal by self-diagnosis, the symptom may be intermittent, caused by strong radio interference. 	
GPS antenna disconnected	Malfunctioning connection between GPS substrate in NAVI control unit and GPS antenna.	<ul style="list-style-type: none"> Navigation location detection performance has deteriorated. (Location correction using GPS is not performed.) GPS receiving status remains gray.
	<ul style="list-style-type: none"> Perform self-diagnosis. When connection between NAVI control unit and GPS antenna is judged normal by self-diagnosis, the symptom may be intermittent, caused by impact or vibration. 	
Low voltage of GPS	The power voltage supplied to the GPS circuit board has decreased.	<ul style="list-style-type: none"> Navigation location detection performance has deteriorated. (Location correction using GPS is not performed.) GPS receiving status remains gray.
	<ul style="list-style-type: none"> Perform self-diagnosis. When connection between NAVI control unit and GPS antenna is judged normal by self-diagnosis, the symptom may be intermittent, caused by impact or vibration. 	
DVD-ROM Malfunction DVD-ROM Read error DVD-ROM Response Error	Malfunctioning NAVI control unit	—
	Dedicated map DVD-ROM is in the system, but the data cannot be read.	<ul style="list-style-type: none"> The map of a particular location cannot be displayed. Specific guidance information cannot be displayed. Map display is slow. Guidance information display is slow. System has been affected by vibration.
	<ul style="list-style-type: none"> Is map DVD-ROM damaged, warped, or dirty? — If damaged or warped, the map DVD-ROM is malfunctioning. — If dirty, wipe the DVD-ROM clean with a soft cloth. Perform self-diagnosis. When NAVI control unit is judged normal by self-diagnosis, the symptom is judged intermittent, caused by vibration. 	

NAVIGATION SYSTEM

Trouble Diagnoses

POWER SUPPLY AND GROUND CIRCUIT CHECK FOR NAVI CONTROL UNIT

1.	CHECK FUSE																	
Make sure that the following fuses of the NAVI control unit are not blown.																		
<table><tr><th colspan="2">Terminals</th><th rowspan="2">Power source</th><th rowspan="2">Fuse No.</th></tr><tr><th>Connector</th><th>Terminal (wire color)</th></tr><tr><td rowspan="3">NAVI control unit M167</td><td>2 (R/G)</td><td rowspan="2">Battery</td><td rowspan="2">56</td></tr><tr><td>3 (R/G)</td></tr><tr><td>6 (L/OR)</td><td>Ignition switch ACC or ON</td><td>10</td></tr></table>					Terminals		Power source	Fuse No.	Connector	Terminal (wire color)	NAVI control unit M167	2 (R/G)	Battery	56	3 (R/G)	6 (L/OR)	Ignition switch ACC or ON	10
Terminals		Power source	Fuse No.															
Connector	Terminal (wire color)																	
NAVI control unit M167	2 (R/G)	Battery	56															
	3 (R/G)																	
	6 (L/OR)	Ignition switch ACC or ON	10															
OK or NG																		
OK	▶	GO TO 2.																
NG	▶	If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to EL-4005 in “POWER SUPPLY ROUTING”.																

2.

CHECK POWER SUPPLY CIRCUIT

Check voltage between NAVI control unit and ground.

NAVI control unit connector

SKIA8719E

Terminals			OFF	ACC	ON
(+)	(-)				
Connector	Terminal (wire color)				
NAVI control unit M167	2 (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
	3 (R/G)		Battery voltage	Battery voltage	Battery voltage
	6 (L/OR)		0V	Battery voltage	Battery voltage

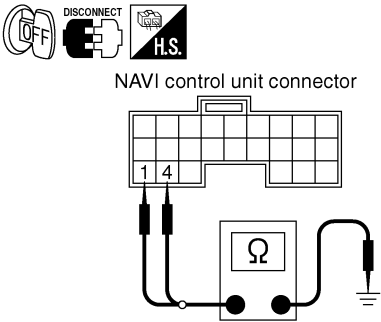
OK or NG

OK	▶	GO TO 3.
NG	▶	Repair or replace harness.

SKIA8719E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

3.	CHECK GROUND CIRCUIT													
<p>1. Turn ignition switch OFF.</p> <p>2. Disconnect NAVI control unit connector.</p> <p>3. Check continuity between NAVI control unit and ground.</p>														
 <p>NAVI control unit connector</p>														
SKIA8720E														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Terminals</th> <th rowspan="2">Continuity</th> </tr> <tr> <th>(+)</th> <th>(-)</th> </tr> </thead> <tbody> <tr> <td>Connector</td> <td>Terminal (wire color)</td> <td></td> </tr> <tr> <td rowspan="2">NAVI control unit M167</td> <td>1 (B)</td> <td rowspan="2">Ground</td> <td rowspan="2">Yes</td> </tr> <tr> <td>4 (B)</td> </tr> </tbody> </table> <p style="text-align: center;">OK or NG</p>		Terminals		Continuity	(+)	(-)	Connector	Terminal (wire color)		NAVI control unit M167	1 (B)	Ground	Yes	4 (B)
Terminals		Continuity												
(+)	(-)													
Connector	Terminal (wire color)													
NAVI control unit M167	1 (B)	Ground	Yes											
	4 (B)													
OK	▶ INSPECTION END													
NG	▶ Repair or replace harness.													

POWER SUPPLY AND GROUND CIRCUIT CHECK FOR DISPLAY

1.	CHECK FUSE																	
Make sure that the following fuses of the display are not blown.																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Unit</th> <th colspan="2">Terminals</th> <th rowspan="2">Power source</th> <th rowspan="2">Fuse No.</th> </tr> <tr> <th>Connector</th> <th>Terminal (wire color)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Display</td> <td rowspan="3">M170</td> <td>21 (R/G)</td> <td rowspan="2">Battery</td> <td rowspan="2">56</td> </tr> <tr> <td>23 (R/G)</td> </tr> <tr> <td></td> <td>19 (L/OR)</td> <td>Ignition switch ACC or ON</td> <td>10</td> </tr> </tbody> </table> <p style="text-align: center;">OK or NG</p>		Unit	Terminals		Power source	Fuse No.	Connector	Terminal (wire color)	Display	M170	21 (R/G)	Battery	56	23 (R/G)		19 (L/OR)	Ignition switch ACC or ON	10
Unit	Terminals		Power source	Fuse No.														
	Connector	Terminal (wire color)																
Display	M170	21 (R/G)	Battery	56														
		23 (R/G)																
			19 (L/OR)	Ignition switch ACC or ON	10													
OK	▶ GO TO 2.																	
NG	▶ If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to EL-4005 in "POWER SUPPLY ROUTING".																	

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

2.

CHECK POWER SUPPLY CIRCUIT

Check voltage between display and ground.

SKIA9491E

Unit	Terminals			OFF	ACC	ON
	(+)		(-)			
	Connector	Terminal (wire color)				
Display	M170	21 (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
		23 (R/G)		Battery voltage	Battery voltage	Battery voltage
		19 (L/OR)		0V	Battery voltage	Battery voltage

OK or NG

OK	▶	GO TO 3.
NG	▶	Repair or replace harness.

3.

CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect display connector.
- Check continuity between display and ground.

SKIA9492E

Unit	Terminals			Continuity
	(+)		(-)	
	Connector	Terminal (wire color)		
Display	M170	22 (B)	Ground	Yes
		24 (B)		

OK or NG

OK	▶	INSPECTION END
NG	▶	Repair or replace harness.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

POWER SUPPLY AND GROUND CIRCUIT CHECK FOR NAVI SWITCH

1.	CHECK FUSE
Check 10A fuse [No. 10, located in fuse block (J/B)].	
OK or NG	
OK	▶ GO TO 2.
NG	▶ If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to EL-4005 in "POWER SUPPLY ROUTING".

2.

CHECK POWER SUPPLY CIRCUIT

Check voltage between NAVI switch and ground.

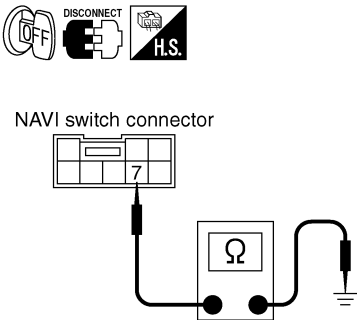
NAVI switch connector

SKIA8724E

Unit	Terminals		OFF	ACC	ON
	(+)				
	Connector	Terminal (wire color)			
NAVI switch	M169	1 (L/OR)	0V	Battery voltage	Battery voltage

OK or NG

OK	▶	GO TO 3.
NG	▶	Repair or replace harness.

3.	CHECK GROUND CIRCUIT
1. Turn ignition switch OFF. 2. Disconnect NAVI switch connector. 3. Check continuity between NAVI switch harness connector M169 terminal 7 (B) and ground.	
 <p>NAVI switch connector</p>	
SKIA8725E	
Continuity should exist.	
OK or NG	
OK	▶ INSPECTION END
NG	▶ Repair or replace harness.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

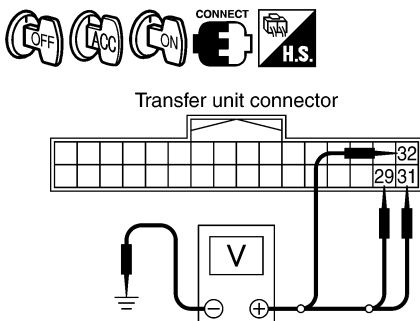
POWER SUPPLY AND GROUND CIRCUIT CHECK FOR TRANSFER UNIT

1.	CHECK FUSE																			
Make sure that the following fuses of the transfer unit are not blown.																				
<table><tr><th rowspan="2">Unit</th><th colspan="2">Terminals</th><th rowspan="2">Power source</th><th rowspan="2">Fuse No.</th></tr><tr><th>Connector</th><th>Terminal (wire color)</th></tr><tr><td rowspan="3">Transfer unit</td><td rowspan="3">M173</td><td>31 (R/G)</td><td rowspan="2">Battery</td><td rowspan="2">56</td></tr><tr><td>32 (R/G)</td></tr><tr><td>29 (L/OR)</td><td>Ignition switch ACC or ON</td><td>10</td></tr></table>					Unit	Terminals		Power source	Fuse No.	Connector	Terminal (wire color)	Transfer unit	M173	31 (R/G)	Battery	56	32 (R/G)	29 (L/OR)	Ignition switch ACC or ON	10
Unit	Terminals		Power source	Fuse No.																
	Connector	Terminal (wire color)																		
Transfer unit	M173	31 (R/G)	Battery	56																
		32 (R/G)																		
		29 (L/OR)	Ignition switch ACC or ON	10																
OK or NG																				
OK	▶	GO TO 2.																		
NG	▶	If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to EL-4005 in “POWER SUPPLY ROUTING”.																		

2.

CHECK POWER SUPPLY CIRCUIT

Check voltage between transfer unit and ground.



Unit	Terminals		OFF	ACC	ON	
	(+)					(-)
	Connector	Terminal (wire color)				
Transfer unit	M173	31 (R/G)	Ground	Battery voltage	Battery voltage	Battery voltage
		32 (R/G)		Battery voltage	Battery voltage	Battery voltage
		29 (L/OR)		0V	Battery voltage	Battery voltage

OK or NG

OK

▶

GO TO 3.

NG

▶

Repair or replace harness.

SKIA9079E

SKIA9079E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect transfer unit connector.
- Check continuity between transfer unit and ground.

Transfer unit connector

SKIA9081E

Unit	Terminals		Continuity
	(+)	(-)	
	Connector	Terminal (wire color)	
Transfer unit	M173	25 (B)	Ground
		27 (B)	

OK or NG

OK	▶	INSPECTION END
NG	▶	Repair or replace harness.

COMMUNICATION LINE CHECK (BETWEEN DISPLAY AND NAVI SWITCH)

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

- Check system of power supply and ground circuit display. Refer to EL-4199.

OK or NG

OK	▶	GO TO 2.
NG	▶	Check the malfunctioning parts.

2. CHECK HARNESS

- Turn ignition switch OFF.
- Disconnect display connector and NAVI switch connector.
- Check continuity between display harness connector M170 terminal 15 (OR) and NAVI switch harness connector M169 terminal 4 (OR).

Display connector

NAVI switch connector

SKIA9222E

15 (OR) - 4 (OR) Continuity should exist.

- Check continuity between display harness connector M170 terminal 15 (OR) and ground.

15 (OR) - Ground Continuity should not exist.

OK or NG

OK	▶	Replace display.
NG	▶	Repair harness or connector.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

COMMUNICATION LINE CHECK (BETWEEN NAVI SWITCH AND TRANSFER UNIT)

1.	CHECK POWER SUPPLY AND GROUND CIRCUIT	
1. Check system of power supply and ground circuit NAVI switch. Refer to EL-4201 OK or NG		
OK	▶	GO TO 2.
NG	▶	Check the malfunctioning parts.

2.	CHECK HARNESS	
<div>1. Turn ignition switch OFF.</div> <div>2. Disconnect NAVI switch connector and transfer unit connector.</div> <div>3. Check continuity between NAVI switch harness connector M169 terminals 5 (L/W), 6 and transfer unit harness connector M173 terminals 18 (L/W), 15.</div>		
<div><div><div><div><div>DISCONNECT</div><div></div></div><div></div><div></div></div><div>Transfer unit connector</div><div></div><div>NAVI switch connector</div><div></div><div></div></div></div>		
<div>5 (L/W) - 18 (L/W) Continuity should exist.</div> <div>6 - 15 Continuity should exist.</div>		
<div>4. Check continuity between NAVI switch harness connector M169 terminals 5 (L/W), 6 and ground.</div> <div>5 (L/W), 6 - Ground Continuity should not exist.</div> <div>OK or NG</div>		
OK	▶	Replace NAVI switch.
NG	▶	Repair harness or connector.

COMMUNICATION LINE CHECK (BETWEEN NAVI CONTROL UNIT AND TANSFER UNIT)

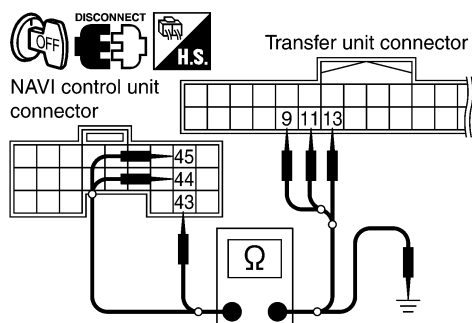
1.	CHECK POWER SUPPLY AND GROUND CIRCUIT	
1. Check system of power supply and ground circuit NAVI control unit. Refer to EL-4198. OK or NG		
OK	▶	GO TO 2.
NG	▶	Check the malfunctioning parts.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

2. CHECK HARNESS

1. Turn ignition switch OFF.
2. Disconnect NAVI control unit connector and transfer unit connector.
3. Check continuity between NAVI control unit and transfer unit.



SKIA9224E

Terminals				Continuity
NAVI control unit		Transfer unit		
Connector	Terminal (wire color)	Connector	Terminal (wire color)	
M168	43	M173	9	Yes
	44 (W)		11 (W)	
	45 (B)		13 (B)	

4. Check continuity between NAVI control unit and ground.

Terminals			Continuity
Connector	Terminal (wire color)	—	
M168	43	Ground	No
	44 (W)		
	45 (B)		

OK or NG

OK	▶	Replace NAVI control unit.
NG	▶	Repair harness or connector.

COMMUNICATION LINE CHECK (BETWEEN TRANSFER UNIT AND DISPLAY)

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

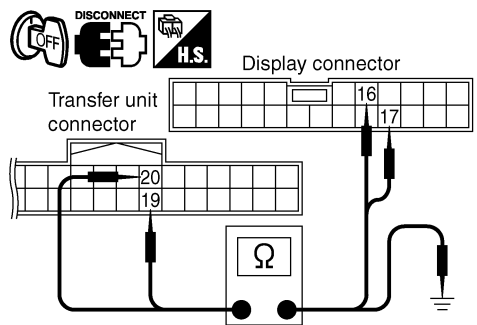
1. Check system of power supply and ground circuit transfer unit. Refer to EL-4202.

OK or NG

OK	▶	GO TO 2.
NG	▶	Check the malfunctioning parts.

NAVIGATION SYSTEM

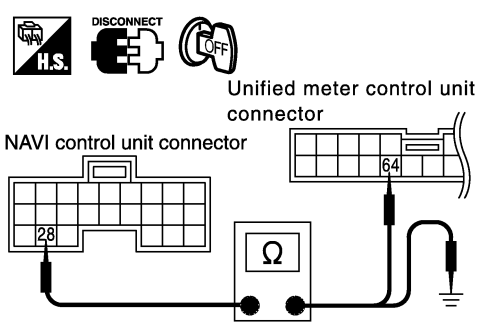
Trouble Diagnoses (Cont'd)

2.	CHECK HARNESS
1. Turn ignition switch OFF. 2. Disconnect transfer unit connector and display connector. 3. Check continuity between transfer unit harness connector M173 terminals 19, 20 (B) and display harness connector M112 terminals 17, 16 (B).	
	
19 - 17 Continuity should exist. 20 (B) - 16 (B) Continuity should exist.	
4. Check continuity between transfer unit harness connector M173 terminals 19, 20 (B) and ground. 19, 20 (B) - Ground Continuity should not exist. OK or NG	
OK	▶ Replace transfer unit.
NG	▶ Repair harness or connector.

SKIA9225E

VEHICLE SPEED SIGNAL CHECK

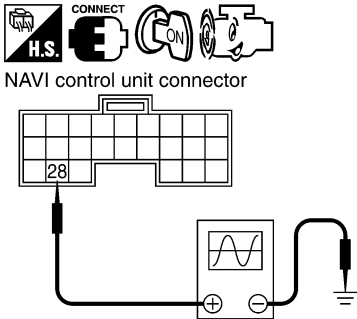
1.	CHECK VEHICLE SPEED OPERATION
Does speedometer is operated normally?	
Yes or No	
Yes	▶ GO TO 2.
No	▶ Check combination meter.

2.	CHECK HARNESS
1. Turn ignition switch OFF. 2. Disconnect NAVI control unit connector and combination meter connector. 3. Check continuity between NAVI control unit harness connector M168 terminal 28 (R/W) and Unified meter control unit harness connector M143 terminal 64 (R/W).	
	
28 (R/W) - 64 (R/W) Continuity should exist.	
4. Check continuity between NAVI control unit harness connector M168 terminal 28 (R/W) and ground. 28 (R/W) - Ground Continuity should not exist. OK or NG	
OK	▶ GO TO 3.
NG	▶ Repair harness or connector.

PKIB0549E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

3.	CHECK VEHICLE SPEED SIGNAL
1. Connect NAVI control unit and combination meter connector. 2. Start engine and drive vehicle at more than 40 km/h (25 MPH). 3. Check the signal between NAVI control unit harness connector M168 terminal 28 (R/W) and ground with CONSULT-II or oscilloscope.	
	
28 (R/W) - Ground: Refer to EL-4183.	
OK or NG	
OK	▶ Replace NAVI control unit.
NG	▶ Replace unified meter control unit.

SKIA9106E

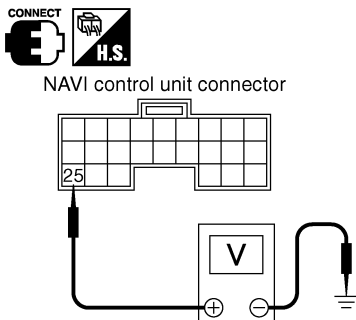
ILLUMINATION SIGNAL CHECK

1.	CHECK TAIL LAMP OPERATION
When lighting switch turned 1st or 2nd position, does tail lamp illuminate? Yes or No	
Yes	▶ GO TO 2.
No	▶ Go to tail lamp trouble diagnosis.

2.

CHECK ILLUMINATION SIGNAL

Check voltage between NAVI control unit and ground.



Terminals		Lighting switch position	Voltage
(+)	(-)		
Connector	Terminal (wire color)		
M168	25 (L/B)	1st or 2nd position	Battery voltage
		OFF	Approx. 0V

OK or NG

OK

▶

Replace NAVI control unit.

NG

▶

Repair harness or connector.

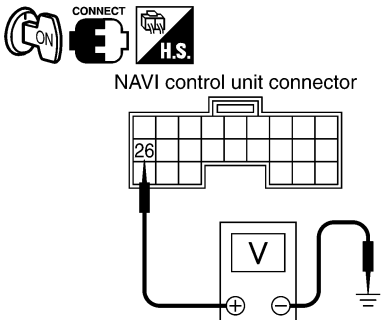
SKIB0315E

SKIB0315E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

IGNITION SIGNAL CHECK

1.	CHECK IGNITION SIGNAL	
1. Turn ignition switch ON. 2. Check voltage between NAVI control unit harness connector M168 terminal 26 (R/W) and ground.		
 <p>NAV I control unit connector</p>		
26 (R/W) - Ground: Battery voltage		
OK or NG		
OK	▶	Replace NAVI control unit.
NG	▶	Check the following. <ul style="list-style-type: none"> ● 10A fuse [No. 28, located in fuse block (J/B)] ● Harness for open or short between NAVI control unit and fuse

SKIA9108E

REVERSE SIGNAL CHECK

1.	CHECK REVERSE LAMP	
1. Turn ignition switch ON. — With the A/T selector lever in R position, does “R” in the shift position indicator turned on? (With A/T) — With the shift lever in R position. Are reverse lamps turned on? (With M/T)		
Yes or No		
Yes	▶	GO TO 2.
No	▶	Check “BACK-UP LAMP” system.

NAVIGATION SYSTEM

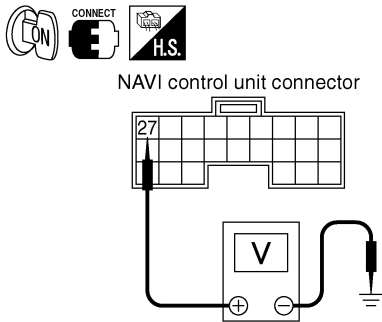
Trouble Diagnoses (Cont'd)

2.

CHECK REVERSE SIGNAL

- Shift the A/T selector lever in R position. (With A/T)
- Shift the shift lever in R position. (With M/T)

— Check voltage between NAVI control unit and ground.



NAVI control unit connector

SKIA8728E

Terminals		A/T selector lever position	Voltage (V)
(+)	(-)		
Connector	Terminal (wire color)		
M168	27 (Y)	R position	Battery voltage
		Other than R position	Approx. 0

OK or NG

OK	▶	Replace NAVI control unit.
NG	▶	Check the following. <ul style="list-style-type: none"> Harness for open or short between NAVI control unit and park/neutral position switch (A/T models) Harness for open or short between NAVI control unit and back-up lamp switch (M/T models)

COLOR OF RGB IMAGE IS NOT PROPER

1.	CHECK COLOR BAR DIAGNOSIS		
Check color tone by "SCREEN ADJUSTMENT" of CONFIRMATION/ADJUSTMENT function. OK or NG			
OK	▶	INSPECTION END	
NG	▶	GO TO 2.	

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

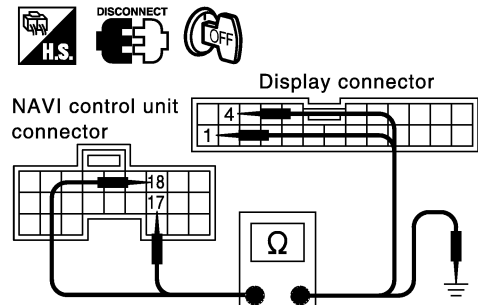
2. CHECK RGB HARNESS

1. Turn ignition switch OFF.
2. Disconnect NAVI control unit connector and display connector.
3. Check continuity with the following.

● When the screen looks bluish

Terminals				Continuity
NAVI control unit		Display		
Connector	Terminal (wire color)	Connector	Terminal (wire color)	
M167	18 (R)	M170	1 (R)	Yes
	17		4	

Terminals				Continuity
Connector	Terminal (wire color)	—		
M167	18 (R)	Ground		No
	17			

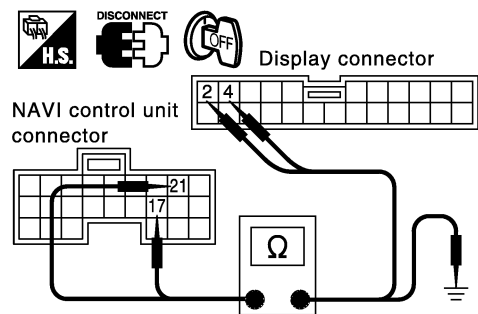


PKIB0550E

● When the screen looks reddish

Terminals				Continuity
NAVI control unit		Display		
Connector	Terminal (wire color)	Connector	Terminal (wire color)	
M167	21 (G)	M170	2 (G)	Yes
	17		4	

Terminals				Continuity
Connector	Terminal (wire color)	—		
M167	21 (G)	Ground		No
	17			

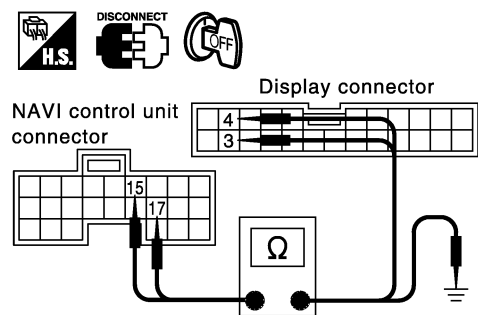


PKIB0551E

● When the screen looks yellowish

Terminals				Continuity
NAVI control unit		Display		
Connector	Terminal (wire color)	Connector	Terminal (wire color)	
M167	15 (B)	M170	3 (B)	Yes
	17		4	

Terminals				Continuity
Connector	Terminal (wire color)	—		
M167	15 (B)	Ground		No
	17			



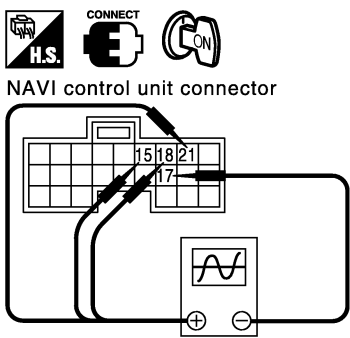
PKIB0552E

OK or NG

OK	▶	GO TO 3.
NG	▶	Repair harness or connector.

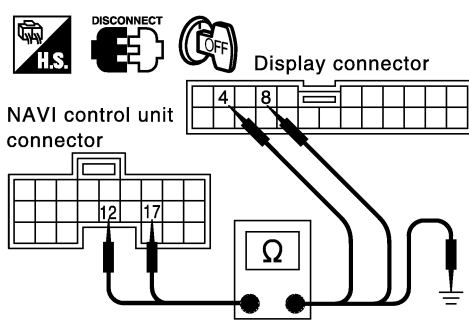
NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

3.	CHECK RGB SIGNAL	
<p>1. Connect NAVI control unit connector and display connector.</p> <div style="text-align: center;">  <p>NAVI control unit connector</p> </div>		
<p>2. Turn ignition switch ON.</p> <p>3. Display "Color bar" by "CONFIRMATION/ADJUSTMENT" mode.</p> <p>4. Check the following with CONSULT-II or oscilloscope.</p> <ul style="list-style-type: none"> • When the screen looks bluish. Voltage signal between NAVI control unit connector M167 terminal 18 (R) and 17. 18 (BR) - 19: Refer to EL-4183. • When the screen looks reddish. Voltage signal between NAVI control unit connector M167 terminal 21 (G) and 17. 21 (W) - 19: Refer to EL-4183. • When the screen looks yellowish. Voltage signal between NAVI control unit connector M167 terminal 15 (B) and 17. 15 (R) - 19: Refer to EL-4183. <p style="text-align: center;">OK or NG</p>		
OK	▶	Replace display.
NG	▶	Replace NAVI control unit.

PKIB0553E

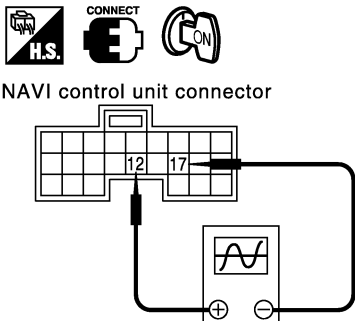
RGB SCREEN IS NOT SHOWN

1.	CHECK HARNESS	
<p>1. Turn ignition switch OFF.</p> <div style="text-align: center;">  <p>Display connector</p> <p>NAVI control unit connector</p> </div>		
<p>2. Disconnect NAVI control unit connector and display connector.</p> <p>3. Check continuity between NAVI control unit harness connector M167 terminals 12 (R), 17 and display harness connector M170 terminals 8 (R), 4.</p> <p>12 (R) - 8 (R) Continuity should exist.</p> <p>17 - 4 Continuity should exist.</p> <p>4. Check continuity between NAVI control unit harness connector M167 terminals 12 (R), 17 and ground.</p> <p>12 (R), 17 - Ground Continuity should not exist.</p> <p style="text-align: center;">OK or NG</p>		
OK	▶	GO TO 2.
NG	▶	Repair harness or connector.

PKIB0554E

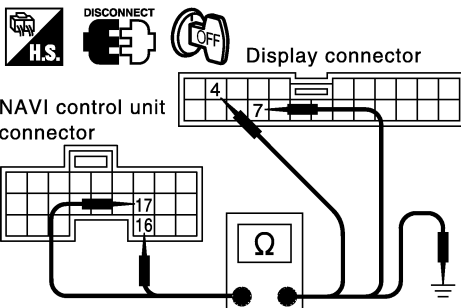
NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

2.	CHECK RGB AREA SIGNAL
<ol style="list-style-type: none"> 1. Connect NAVI control unit connector and display connector. 2. Turn ignition switch ON. 3. Push "INFO" switch. 4. Check the signal between NAVI control unit connector M167 terminals 12 (R) and 17 with CONSULT-II or oscilloscope. 	
 <p>NAVI control unit connector</p> <p>12 (R) - 17: Refer to EL-4183.</p> <p>OK or NG</p>	
OK	▶ Replace display.
NG	▶ Replace NAVI control unit.

PKIB0555E

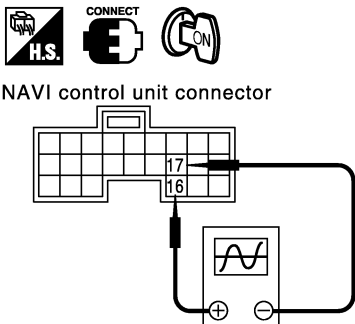
RGB SCREEN IS ROLLING

1.	CHECK RGB SYNCHRONIZING CIRCUIT
<ol style="list-style-type: none"> 1. Turn ignition switch OFF. 2. Disconnect NAVI control unit connector and display connector. 3. Check continuity between NAVI control unit harness connector M167 terminals 16 (W), 17 and display harness connector M170 terminals 7 (W), 4. 	
 <p>NAVI control unit connector</p> <p>Display connector</p> <p>16 (W) - 7 (W) Continuity should exist. 17 - 4 Continuity should exist.</p> <p>4. Check continuity between NAVI control unit harness connector M167 terminals 16 (W), 17 and ground. 16 (W), 17 - Ground Continuity should not exist.</p> <p>OK or NG</p>	
OK	▶ GO TO 2.
NG	▶ Repair harness or connector.

PKIB0556E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

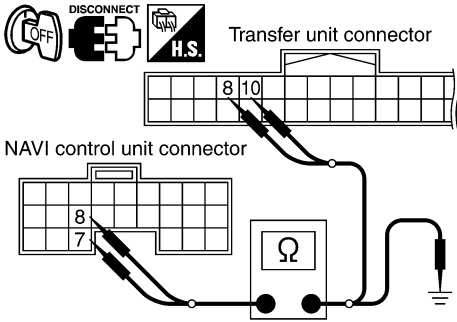
2.	CHECK RGB SYNCHRONIZING SIGNAL
<ol style="list-style-type: none"> 1. Connect NAVI control unit connector and display connector. 2. Turn ignition switch ON. 3. Push the "MAP" switch. 4. Check the signal between NAVI control unit harness connector M167 terminals 16 (W) and 17 with CONSULT-II or oscilloscope. 	
<div style="text-align: center;">  <p>NAVI control unit connector</p> </div>	
<p>16 (W) - 19: Refer to EL-4183.</p> <p style="text-align: right;">PKIB0557E</p>	
OK or NG	
OK	▶ Replace display.
NG	▶ Replace NAVI control unit.

GUIDE SOUND IS NOT HEARD

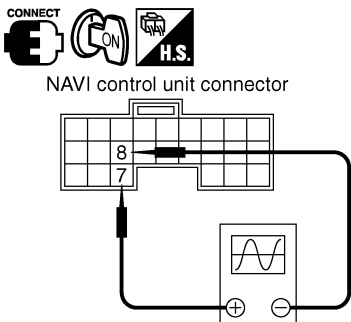
1.	CHECK VOICE GUIDE SETTING
<ul style="list-style-type: none"> • While driving in the dark pink route, voice guide does not operate. <p>NOTE: Voice guide is only available at intersections that satisfy certain conditions (indicated by ● on the map). Therefore, guidance may not be given even when the route on the map changes direction.</p> <ul style="list-style-type: none"> • Is volume setting not switched ON? 	
Yes or No	
Yes	▶ GO TO 2.
No	▶ Switch the setting ON and turn the volume up.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

2.	CHECK VOICE GUIDE CIRCUIT
<ol style="list-style-type: none"> 1. Turn ignition switch OFF. 2. Disconnect NAVI control unit connector and transfer unit connector. 3. Check continuity between NAVI control unit harness connector M167 terminals 7 (Y), 8 (BR), and transfer unit harness connector M173 terminals 8 (Y), 10 (BR). 	
	
<p>7 (Y) - 8 (Y) Continuity should exist. 8 (BR) - 10 (BR) Continuity should exist.</p> <ol style="list-style-type: none"> 4. Check continuity between NAVI control unit harness connector M167 terminals 7 (Y), 8 (BR) and ground. <p>7 (Y), 8 (BR) - Ground Continuity should not exist. OK or NG</p>	
OK	▶ GO TO 3.
NG	▶ <ul style="list-style-type: none"> • Check connector housings for disconnected or loose terminals. • Repair harness or connector.

SKIA9115E

3.	CHECK VOICE GUIDE SIGNAL (NAVI CONTROL UNIT)
<ol style="list-style-type: none"> 1. Connect NAVI control unit connector and transfer unit connector. 2. Turn ignition switch ON. 3. Push "VOICE" switch. 4. Check the signal between NAVI control unit harness connector M167 terminals 7 (Y) and 8 (BR) with CONSULT-II or oscilloscope. 	
	
<p>7 (Y) - 8 (BR): Refer to EL-4183. OK or NG</p>	
OK	▶ GO TO 4.
NG	▶ Replace NAVI control unit.

SKIA9113E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

4. CHECK VOICE CHANGE RELAY CIRCUIT: (1)

1. Turn ignition switch OFF.
2. Disconnect transfer unit connector and voice change relay connector.
3. Check continuity between transfer unit harness connector M173 terminals 1 (L), 2 (PU) and voice change relay harness connector M174 terminals 6 (L), 7 (PU).

DISCONNECT

OFF

H.S.

Transfer unit connector

Voice change relay connector

Ω

SKIA9122E

1 (L) - 6 (L) Continuity should exist.
2 (PU) - 7 (PU) Continuity should exist.

4. Check continuity between transfer unit harness connector M173 terminals 1 (L), 2 (PU) and ground.
1 (L), 2 (PU) - Ground Continuity should not exist.

OK or NG

OK	▶	GO TO 5.
NG	▶	Repair harness or connector.

SKIA9122E

5.	CHECK VOICE GUIDE SIGNAL (TRANSFER UNIT)	
<div>1. Connect transfer unit connector and voice change relay connector.</div> <div>2. Turn ignition switch ON.</div> <div>3. Push “VOICE” switch.</div> <div>4. Check the signal between transfer unit harness connector M173 terminals 1 (L) and 2 (PU) with CONSULT-II or oscilloscope.</div>		
<div><div><div><div>CONNECT</div><div></div></div><div><div>ON</div><div></div></div><div><div>H.S.</div><div></div></div></div><div>Transfer unit connector</div><div></div></div>		
<div>1 (L) - 2 (PU): Refer to EL-4187.</div> <div>OK or NG</div>		
OK	▶	GO TO 6.
NG	▶	Replace transfer unit.

SKIA9118E

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

6.	CHECK VOICE CHANGE RELAY CIRCUIT: (2)
1. Turn ignition switch OFF. 2. Disconnect transfer unit connector and voice change relay connector. 3. Check continuity between transfer unit harness connector M173 terminals 6 (BR), 4 (R) and voice change relay harness connector terminals 2 (BR), 1 (R).	
<p>Transfer unit connector</p> <p>Voice change relay connector</p> <p>6 (BR) - 2 (BR) Continuity should exist. 4 (R) - 1 (R) Continuity should exist.</p> <p>4. Check continuity between transfer unit harness connector M173 terminals 6 (BR), 4 (R) and ground. 6 (BR), 4 (R) - Ground Continuity should not exist. OK or NG</p>	
OK	▶ GO TO 7.
NG	▶ Repair harness or connector.

SKIA9121E

7.	CHECK VOICE CHANGE RELAY ON SIGNAL
1. Connect voice transfer unit connector. 2. Turn ignition switch ON. 3. Push "VOICE" switch. 4. Check voltage between transfer unit harness connector M173 terminal 6 (BR) and 4 (R).	
<p>Transfer unit connector</p> <p>6 (BR) - 4 (R): Approx. 5V</p> <p>OK or NG</p>	
OK	▶ Replace voice change relay.
NG	▶ Replace transfer unit.

SKIA9119E

DISPLAY QUALITY CONTROL CANNOT CHANGE SCREEN

1.	CHECK SYMPTOM
Do other systems operate normally?	
Yes or No	
Yes	▶ Replace display.
No	▶ Check symptom again.

NAVIGATION SYSTEM

Trouble Diagnoses (Cont'd)

DRIVING TEST

1.	DRIVING TEST 1
1. Scroll the map screen to display the area to make correction. Push "ENTER" and select "CURRENT LOCATION CORRECTION". 2. Correct direction of the vehicle mark. 3. Perform the distance correction of the "CONFIRMATION/ADJUSTMENT" mode. NOTE: Normally, adjustment is not necessary because this system has automatic distance correction function. However, when a tire chain is fitted, adjustment in accordance with the tire diameter ratio must be made. 4. Are symptoms applicable to the Example of Symptoms Judged Not Malfunction (EL-4218) present after driving the vehicle?	
Yes or No	
Yes	▶ Limit of the location detection capacity of the navigation system.
No	▶ GO TO 2.

2.	DRIVING TEST 2
<ul style="list-style-type: none"> Did any malfunction occur when the proper test in the following test patterns is performed? Test pattern Driving test finds the difference between the symptoms monitored with and without each sensor. — Test pattern 1: Test method with no GPS location correction Disconnect the GPS antenna connector connected to the NAVI control unit. Accurately adjust the current location and the direction, then drive the vehicle. — Test pattern 2: Test method with no map-matching Accurately adjust the current location and the direction. Eject the map DVD-ROM from the NAVI control unit with the ignition switch turned to OFF, then drive the vehicle. After driving, insert the map DVD-ROM back in the unit, display the track of the vehicle on the map screen and compare it with the actual road configuration. • Sample tests <ul style="list-style-type: none"> — <To determine if the current location mark skips at the same position, if so, whether it is caused by map-matching or by GPS> Perform test pattern 1. — <To determine if the pattern of streets displayed is correct or not> Perform test pattern 1 and 2. Compare the track of the vehicle on the map screen and the actual road configuration. For fairly accurate tracking, plotting shall be made every several hundred meters. — <When the distance is adjusted accurately> Perform test pattern 1 and 2. Drive on a road of which distance is accurately known (by utilizing distance posts on a highway). Calculate the rate of change (increased/decreased) of the distance by comparing with the actual distance. $\text{Correction} = 1 - A/B$ A: Distance shown on the screen B: Actual distance 	
Yes or No	
Yes	▶ <ul style="list-style-type: none"> If adjustment is insufficient, perform adjustment again. If any error is found in the map, please let us know. Replace NAVI control unit.
No	▶ Limit of the location detection capacity of the navigation system.

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction

BASIC OPERATION

Symptom	Cause	Remedy
No image is shown.	Display brightness adjustment is set fully to DARK side.	Adjust the display brightness.
No guide sound is heard. Audio guide volume is too low or too high.	Volume control is set to OFF, MIN or MAX.	Adjust the audio guide volume.
	Audio guidance is not available while the vehicle is driving on a dark pink route.	System is not malfunction.
Screen is too dark. Motion of the image is too slow.	Temperature inside the vehicle is low.	Wait until the temperature inside the vehicle reaches the proper temperature.
Small black or bright spots appear on the screen.	Symptom peculiar to a liquid crystal display.	System is not malfunction.

VEHICLE MARK

Symptom	Cause	Remedy
Map screen and BIRDVIEW® Name of the place vary with the screen.	Some thinning of the character data is done to prevent the display becoming to complex. In some cases and in some locations, the display contents may differ. The same place name, street name, etc. may not be displayed every time on account of the data processing.	System is not malfunction.
Vehicle mark is not positioned correctly.	Vehicle is transferred by ferry or by towing after its ignition switch is turned to OFF.	Drive the vehicle for a while in the GPS satellite signal receiving condition.
Screen will not switch to nighttime mode after the lighting switch is turned ON.	The daytime screen is selected by the "SWITCH SCREENS" when the last time the screen dimming setting is done. Switching between daytime/nighttime screen may be inhibited by the automatic illumination adjustment function.	Perform screen dimming and select the nighttime screen by "SWITCH SCREENS".
Map screen will not scroll in accordance with the vehicle travel.	Current location is not displayed.	Push "MAP" switch to display the current location.
Vehicle mark will not be shown.	Current location is not displayed.	Push "MAP" switch to display the current location.
Accuracy indicator (GPS satellite mark) on the map screen stays gray.	GPS satellite signal is intercepted because the vehicle is in or behind a building.	Move the vehicle out to an open space.
	GPS satellite signal cannot be received because an obstacle is placed on top of the display.	Do not place anything in the center on top of the display.
	GPS satellites are located badly.	Wait until the location becomes better.
Vehicle location accuracy is low.	Accuracy indicator (GPS satellite mark) on the map screen stays gray.	Current location is not determined.
	Vehicle speed setting by the vehicle speed pulse has been deviated (advanced or retarded) from the actual vehicle speed because tire chain is fitted or the system has been used on another vehicle.	Drive the vehicle for a while [for approx. 30 minutes at approx. 30 km/h (19 MPH)] and the deviation will be automatically adjusted. If advancement or retard still occur, perform the distance adjustment by "CONFIRMATION/ADJUSTMENT" mode of diagnosis function.
	Map data has error or omission. (Vehicle mark is always deviated to the same position.)	As a rule, an updated map DVD-ROM will be released once a year.

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

DESTINATION, PASSING POINTS, AND MENU ITEMS CANNOT BE SELECTED/SET

Symptom	Cause	Remedy
Passing point is not searched when re-searching the route.	The vehicle has already passed the passing point, or the system judged so.	To include the passing points that have been passed into the route again, set the route again.
Route information will not be displayed.	Route searching has not been done.	Set the destination and perform route searching.
	Vehicle mark is not on the recommended route.	Drive on the recommended route.
	Route guide is turned OFF.	Turn the route guide ON.
	Route information is not available on the dark pink route.	System is not malfunction.
After the route searching, no guide sign will appear as the vehicle goes near the entrance/exit to the toll road.	Vehicle mark is not on the recommended route. (On the display, only guide signs related to the recommended route will be shown.)	Drive on the recommended route.
Automatic route searching is not possible.	Vehicle is driving on a highway (gray route), or no recommended route is available.	Drive on a road to be searched. Or re-search the route manually. In this case, however, the whole route will be searched.
Performed automatic detour search (or detour search). However, the result is the same as that of the previous search.	Performed search with every conditions considered. However, the result is the same as that of the previous search.	System is not malfunction.
Passing points cannot be set.	More than five passing points were set.	Passing points can be set up to five. To stop at more than five points, perform sharing in several steps.
When setting the route, the starting point cannot be selected.	The current vehicle location is always set as the starting point of a route.	System is not malfunction.
Some menu items cannot be selected.	The vehicle is being driven.	Stop the vehicle at a safe place and then operate the system.

VOICE GUIDE

Symptom	Cause	Remedy
Voice guide will not operate.	Note: Voice guide is only available at intersections that satisfy certain conditions (indicated by ● on the map). Therefore, guidance may not be given even when the route on the map changes direction.	System is not malfunction.
	The vehicle is not on the recommended route.	Return to the recommended route or re-search the route.
	Voice guide is turned OFF.	Turn the voice guide ON.
	Route guide is turned OFF.	Turn the route guide ON.
Voice guide does not match the actual road pattern.	Voice guide may vary with the direction to which the vehicle is turn and the connection of the road to other roads.	Drive in conformity to the actual traffic rules.

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

ROUTE SEARCHING

Symptom	Cause	Remedy
No route is shown.	No road to be searched is found around the destination.	Find wider road (orange road or wider) nearby and reset the destination and passing points onto it. Take care of the traveling direction when there are separate up and down roads.
	Starting point and the destination are too close.	Set the destination at more distant point.
	Conditional traffic regulation (day of the week/time of the day) is set at the area around the current location or the destination.	Turn the time-regulating search conditions OFF. Turn "Avoid regulation time" in the search conditions OFF.
Indicated route is intermittent.	In some areas, highways (gray routes) are not used for the search (Note). Therefore, the route to the current position or the passing points may be intermittent.	System is not malfunction.
When the vehicle has passed the recommended route, it is deleted from the screen.	A recommended route is controlled by each section. When the vehicle has passed the passing point 1, then the map data from the starting point up to the passing point 1 will be deleted. (The data may remain undeleted in some area.)	System is not malfunction.
Detouring route is recommended.	In some areas, highways (gray routes) are not used for the search (Note). Therefore, detour route may be recommended.	Set the route closer to the basic route (gray route).
	A detour route may be shown when some traffic regulation (one-way traffic, etc.) is set at the area around the starting point or the destination.	Slightly move the starting point or the destination, or set the passing point on the route of your choice.
	In the area where highways (gray routes) are used for the search, left turn has priority around the current location and the destination (passing points). For this reason, the recommended route may be detouring.	System is not malfunction.
Landmarks on the map do not match the actual ones.	This can be happen due to omission or error in the map data.	As a rule, an updated map DVD-ROM will be released once a year. Wait until the latest map has become available.
Recommended route is far from the starting point, passing points, and destination.	Starting point, passing points, and destination of the route guide were set far from the desired points because route searching data around these area were not stored.	Reset the destination onto the road nearby. If this road is one of the highways (gray routes), an ordinary road nearby may be displayed as the recommended route.

NOTE:

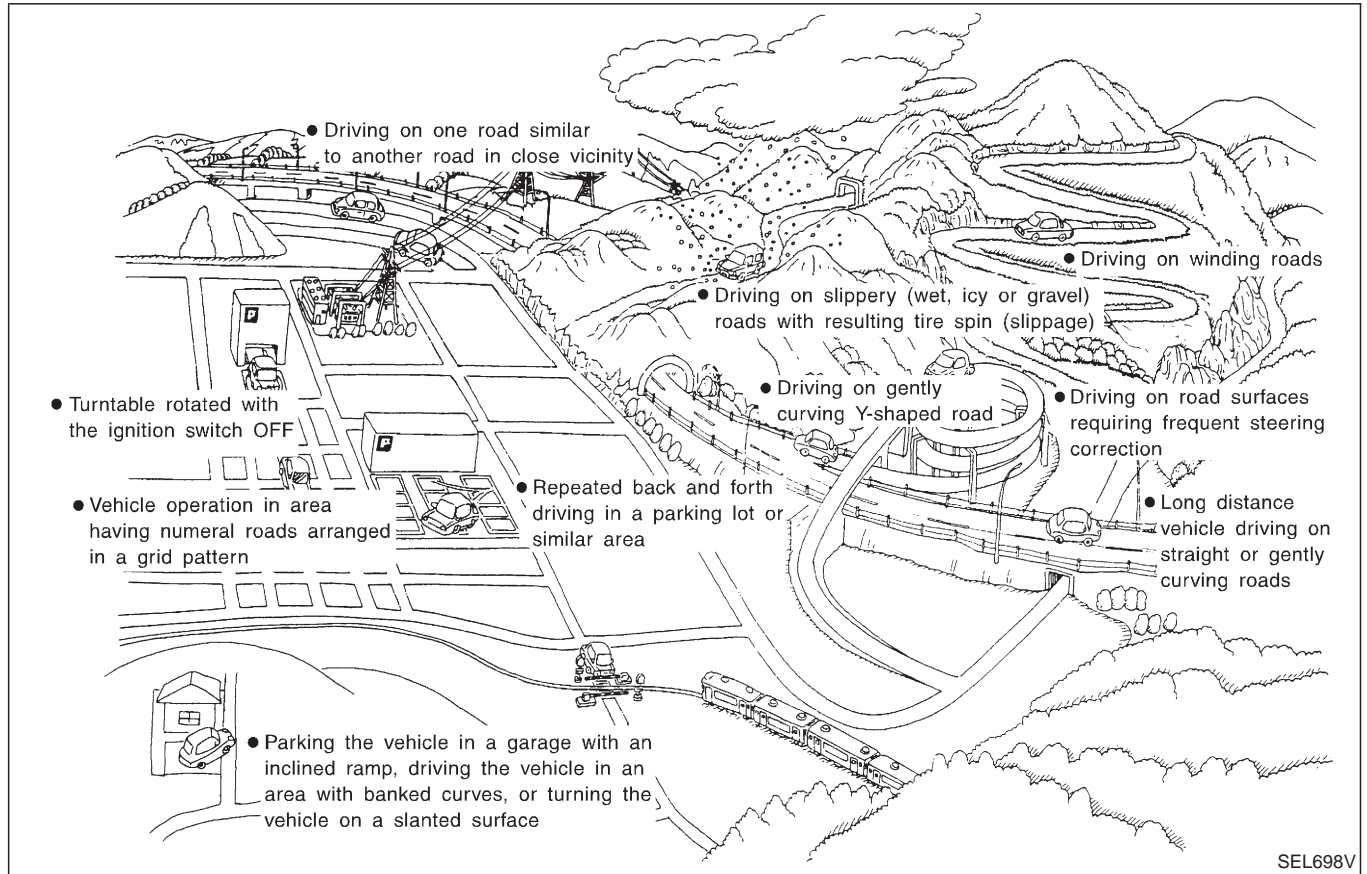
Except for the ordinance-designated cities and the prefectural capitals (Applicable areas may be changed in the updated map disc.)

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

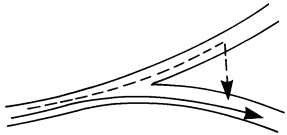
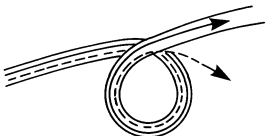
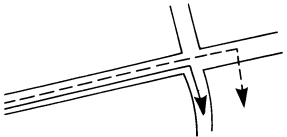
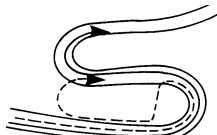
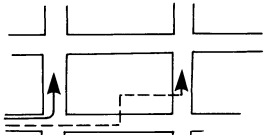
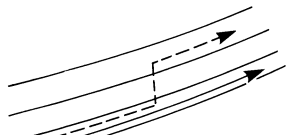
EXAMPLES OF CURRENT LOCATION MARK DISPLACEMENT

Vehicle's travel amount is calculated by reading its travel distance and turning angle. Therefore, if the vehicle is driven in the following manner, an error will occur in the vehicle's current location display. If correct location has not been restored after driving the vehicle for a while, perform location correction.



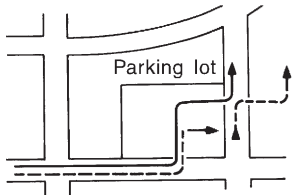
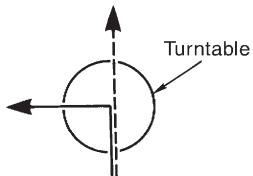
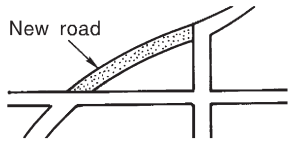
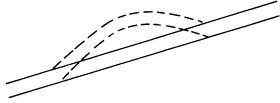
NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

	Cause (condition)	Driving condition	Remarks (correction, etc.)
Road configuration	Y-intersections  ELK0192D	At a Y intersection or similar gradual division of roads, error the direction of travel deduced by the sensor may result in the current location mark appearing on the wrong road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Spiral roads  ELK0193D	When driving on a large, continuous spiral road (such as loop bridge), turning angle error is accumulated and the vehicle mark may deviate from the correct location.	
	Straight roads  ELK0194D	When driving on a long, straight road and slow curve without stopping, map-matching does not work effectively enough and distance errors may accumulate. As a result, the vehicle mark may deviate from the correct location when the vehicle turned at a corner.	
	Zigzag roads  ELK0195D	When driving on a zigzag road, the map may be matched to other roads in the similar direction nearby at every turn, and the vehicle mark may deviate from the correct location.	
	Roads laid out in a grid pattern  ELK0196D	When driving at where roads are laid out in a grid pattern, where many roads are running in the similar direction nearby, the map may be matched to them by mistake and the vehicle mark may deviate from the correct location.	
	Parallel roads  ELK0197D	When two roads are running in parallel (such as highway and sideways), the map may be matched to the other road by mistake and the vehicle mark may deviate from the correct location.	

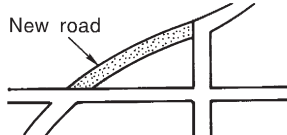
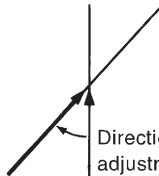
NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

	Cause (condition)	Driving condition	Remarks (correction, etc.)
Place	In a parking lot  SEL709V	When driving in a parking lot, or other location where there are no roads on the map, matching may place the vehicle mark on a nearby road. When the vehicle returns to the road, the vehicle mark may have deviated from the correct location. When driving in circle or turning the steering wheel repeatedly, direction errors accumulate, and the vehicle mark may deviate from the correct location.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
	Turn table  SEL710V	When the ignition switch is OFF, the navigation system cannot get the signal from the gyroscope (angular speed sensor). Therefore, the displayed direction may be wrong and the correct road may not be easily returned to after rotating the vehicle on a turntable with the ignition OFF.	
	Slippery roads	On snow, wet roads, gravel, or other roads where tires may slip easily, accumulated mileage errors may cause the vehicle mark to deviate from the correct road.	
	Slopes	When parking in sloped garages, when travelling on banked roads, or in other cases where the vehicle turns when tilted, an error in the turning angle will occur, and the vehicle mark may deviate from the road.	
Map data	Road not displayed on the map screen  SEL699V	When driving on new roads or other roads not displayed on the map screen, map matching does not function correctly and matches the location to a nearby road. When the vehicle returns to a road which is on the map, the vehicle mark may deviate from the correct road.	
	Different road pattern (Changed due to repair)  ELK0201D	If the road pattern stored in the map data and the actual road pattern are different, map matching does not function correctly and matches the location to a nearby road. The vehicle mark may deviate from the correct road.	
Vehicle	Use of tire chains	When tire chains are used, the mileage is not correctly detected, and the vehicle mark may deviate from the correct road.	Drive the vehicle for a while. If the distance is still deviated, adjust it by using the distance adjustment function. (If the tire chain is removed, recover the original value.)

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

	Cause (condition)	Driving condition	Remarks (correction, etc.)
Precautions for driving	Just after the engine is started	If the vehicle is driven off just after the engine is started when the gyro-scope (angular speed sensor) correction is not completed, the vehicle can lose its direction and may have deviated from the correct location.	Wait for a short while before driving after starting the engine.
	Continuous driving without stopping	When driving long distances without stopping, direction errors may accumulate, and the current location mark may deviate from the correct road.	Stop and adjust the orientation.
	Abusive driving	Spinning the wheels or engaging in other kinds of abusive driving may result in the system being unable to perform correct detection, and may cause the vehicle mark to deviate from the correct road.	If after travelling about 10 km (6 miles) the correct location has not been restored, perform location correction and, if necessary, direction correction.
How to correct location	Position correction accuracy  SEL699V	If the accuracy of location settings is poor, accuracy may be reduced when the correct road cannot be found, particularly in places where there are many roads.	Enter in the road displayed on the screen with an accuracy of approx. 1 mm. NOTE: Whenever possible, use detailed map for the correction.
	Direction when location is corrected  SEL702V	If the accuracy of location settings during correction is poor, accuracy may be reduced afterwards.	Perform direction correction.

THE CURRENT POSITION MARK SHOWS A POSITION WHICH IS COMPLETELY WRONG

In the following cases, the current location mark may appear on completely different position in the map depending on the GPS satellite signal receiving conditions. In this case, perform location correction and direction correction.

- When location correction has not been done
 - If the receiving conditions of the GPS satellite signal is poor, if the current location mark becomes out of place, it may move to a completely different location and not come back if location correction is not done. The position will be corrected if the GPS signal can be received.
- When the vehicle has traveled by ferry, or when the vehicle has been being towed
 - Because calculation of the current location cannot be done when travelling with the ignition OFF, for example when travelling by ferry or when being towed, the location before travel is displayed. If the precise location can be detected with GPS, the location will be corrected.

THE CURRENT POSITION MARK JUMPS

In the following cases, the current location mark may appear to jump as a result of automatic correction of the current location.

- When map matching has been done
 - If the current location and the current location mark are different when map matching is done, the current location mark may seem to jump. At this time, the location may be “corrected” to the wrong road or to a location which is not on a road.
- When GPS location correction has been done
 - If the current location and the current location mark are different when the location is corrected using GPS measurements, the current location mark may seem to jump. At this time, the location may be “corrected” to a location which is not on a road.

NAVIGATION SYSTEM

Example of Symptoms Judged Not Malfunction (Cont'd)

THE CURRENT LOCATION MARK IS IN A RIVER OR THE SEA

The navigation system moves the current location mark with no distinction between land and rivers or sea. If the location mark is somehow out of place, it may appear that the vehicle is driving in a river or the sea.

WHEN DRIVING ON THE SAME ROAD, SOMETIMES THE CURRENT LOCATION MARK IS IN THE RIGHT PLACE AND SOMETIMES IT IS THE WRONG PLACE

The conditions of the GPS antenna (GPS data) and gyroscope (angular speed sensor) change gradually. Depending on the road traveled and the operation of the steering wheel, the location detection results will be different. Therefore, even on a road on which the location has never been wrong, conditions may cause the vehicle mark to deviate.

LOCATION CORRECTION BY MAP MATCHING IS SLOW

- The map matching function needs to refer to the data of the surrounding area. It is necessary to drive some distance for the function to work.
- Because map matching operates on this principle, when there are many roads running in similar directions in the surrounding area, no matching determination may be made. The location may not be corrected until some special feature is found.

ALTHOUGH THE GPS RECEIVING DISPLAY IS GREEN, THE VEHICLE MARK DOES NOT RETURN TO THE CORRECT LOCATION

- The GPS accuracy has an error of about 10 m (30 ft). In some cases the current location mark may not be on the correct street, even when GPS location correction is done.
- The navigation system compares the results of GPS location detection with the results from map-matching location detection. The one which is determined to have higher accuracy is used.
- GPS location correction may not be performed when the vehicle is stopped.

THE NAME OF THE CURRENT PLACE IS NOT DISPLAYED

The current place name may not be displayed if there are no place names displayed on the map screen.

CONTENTS OF THE DISPLAY DIFFER FOR THE BIRDVIEW® AND THE (FLAT) MAP SCREEN

Difference of the BIRDVIEW® screen from the flat map screen are as follows.

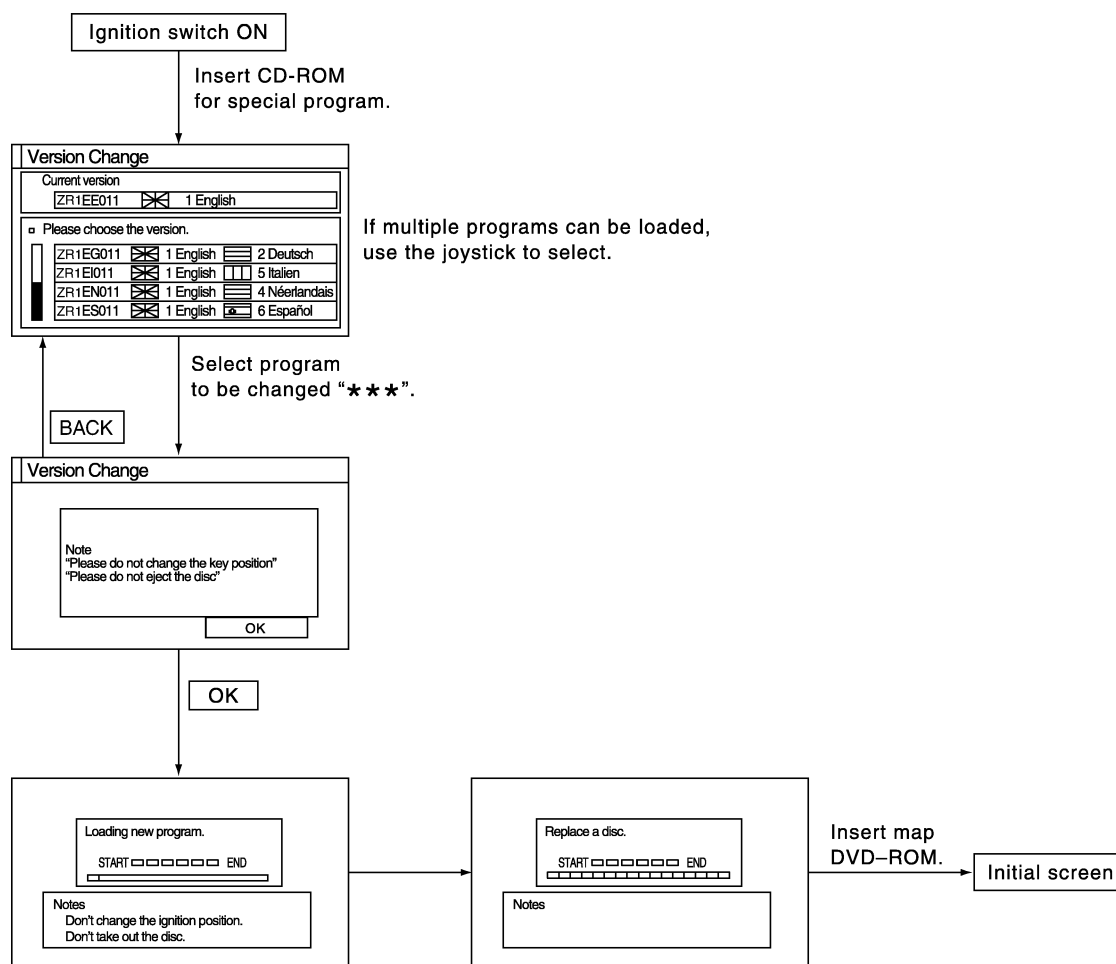
- The current place name displays names which are primarily in the direction of vehicle travel.
- The amount of time before the vehicle travel or turn angle is updated on the screen is longer than for the (flat) map display.
- The conditions for display of place names, roads, and other data are different for nearby areas and for more distant areas.
- Some thinning of the character data is done to prevent the display becoming too complex. In some cases and in some locations, the display contents may differ.
- The same place name, street name, etc. may be displayed multiple times.

NAVIGATION SYSTEM

Program Loading

NOTE:

Program loading is operated when the version of soft is upgraded to the latest one, or when language is switched.

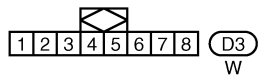
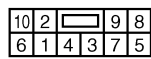


NOTE: Always load a program with the engine running.

SKIA9552E

EL-MIRROR-01

EL-MIRROR-01

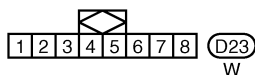
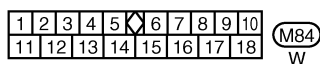
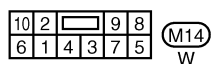


(M22), (D1)
(M2)

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

The diagram illustrates the electrical connections for the EL-MIRROR-0 system. It includes the following components and connections:

- Preceding page:** Provides power to terminals A, B, C, D, E, F, and G.
 - Terminal A connects to the OPEN/CLOSE SWITCH (N).
 - Terminal B connects to the ILLUMINATION lamp.
 - Terminal C connects to the L/OR terminal of the door mirror remote control switch.
 - Terminal D connects to the G/OR terminal of the door mirror remote control switch.
 - Terminal E connects to the G/B terminal of the door mirror remote control switch.
 - Terminal F connects to the R terminal of the door mirror remote control switch.
 - Terminal G connects to the W terminal of the door mirror remote control switch.
- DOOR MIRROR REMOTE CONTROL SWITCH (M14):** Features an OPEN/CLOSE SWITCH with terminals N (Normal) and C (Close) and an ILLUMINATION lamp.
 - The ILLUMINATION lamp is connected to terminal 10 (L/B) and the preceding page terminal B.
 - Terminal 9 (R) connects to the G/B terminal of the door mirror (passenger side).
 - Terminal 8 (W) connects to the G/OR terminal of the door mirror (passenger side).
 - Terminal 10 (L/B) connects to the L/OR terminal of the door mirror (passenger side).
- DOOR MIRROR (PASSENGER SIDE) (D23):** Controls the mirror's movement.
 - Terminal 4 (G/B) controls LEFT-WARD and RIGHT-WARD movement.
 - Terminal 5 (G/W) controls DOWN-WARD and UP-WARD movement.
 - Terminal 6 (G/Y) controls OPEN-WARD and CLOSE-WARD movement.
 - Terminal 3 (R) and terminal 7 (W) are also shown.
- Wiring Details:**
 - Thick black lines represent power supply lines.
 - Thin black lines represent signal or control lines.
 - WT (With theft warning system) and OT (Without theft warning system) labels indicate specific wiring paths.
 - Terminal 10 (L/B) is labeled "To EL-ILL".
 - Terminal 11P (W) is connected to the W terminal of the door mirror (passenger side).
 - Terminal 10P (R) is connected to the R terminal of the door mirror (passenger side).
 - Terminal 14P (G/Y) is connected to the G/Y terminal of the door mirror (passenger side).
 - Terminal 15P (G/W) is connected to the G/W terminal of the door mirror (passenger side).
 - Terminal 16P (G/B) is connected to the G/B terminal of the door mirror (passenger side).

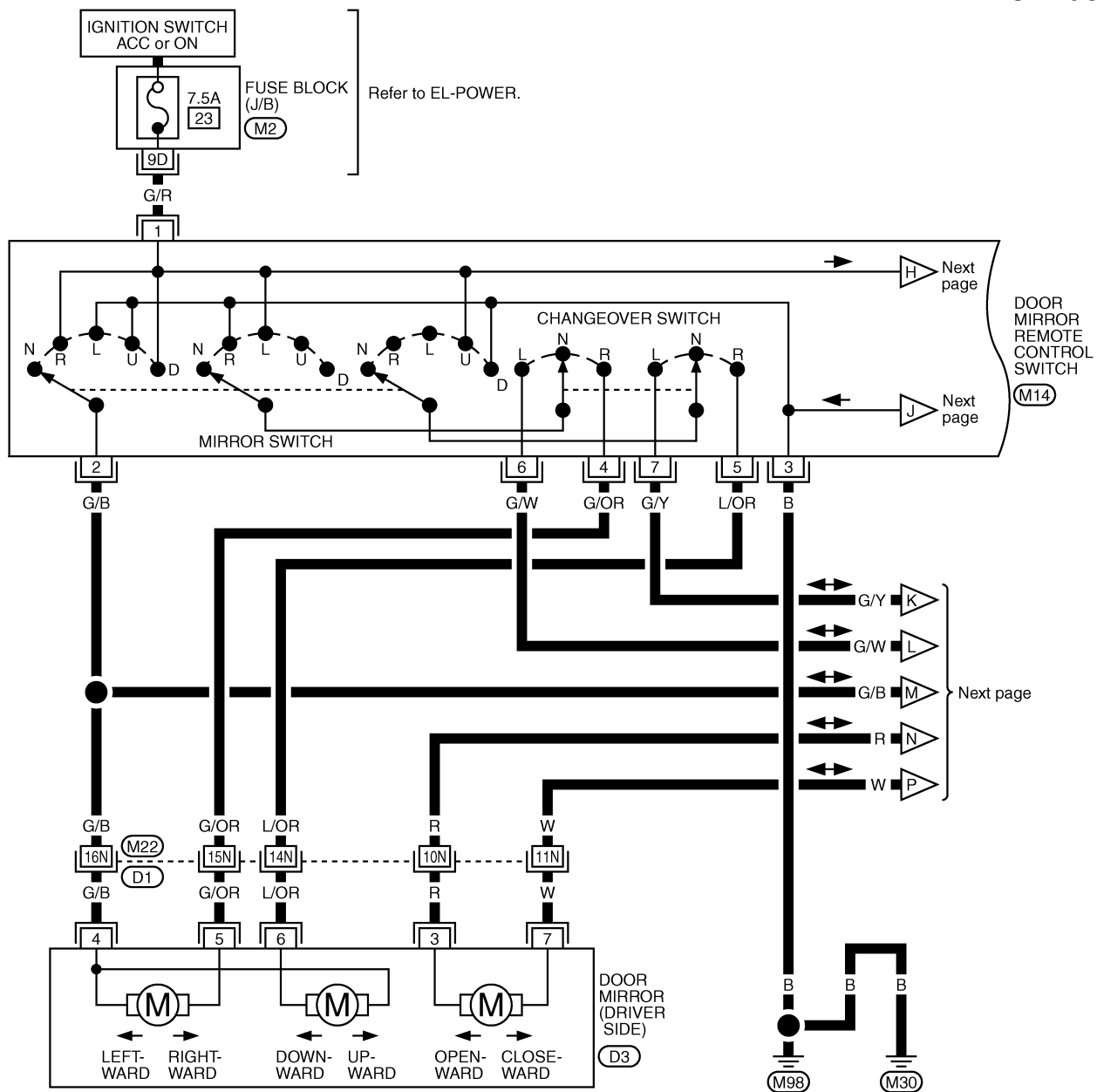


Refer to last page (Foldout page).
(M175), (D29)

DOOR MIRROR/WAGON AND HARDTOP MODELS

Wiring Diagram — MIRROR —/RHD Models

EL-MIRROR-03



10	2	9	8
6	1	4	3

(M14)
W

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

(D3)
W

Refer to last page (Foldout page).

(M22) (D1)
(M2)

Wiring Diagram — MIRROR —/RHD Models

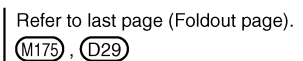
Wiring diagram for the door mirror remote control system (EL-MIRROR-04). The diagram shows the connection between the preceding page, the door mirror remote control switch (M14), the door mirror (passenger side) (D23), and various relays and switches. It includes terminals for G/Y, G/W, G/B, R, and W, and a legend for ET (For Europe and with theft warning system) and OE (Except for Europe and with theft warning system).

Legend:

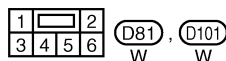
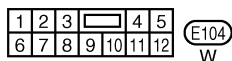
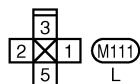
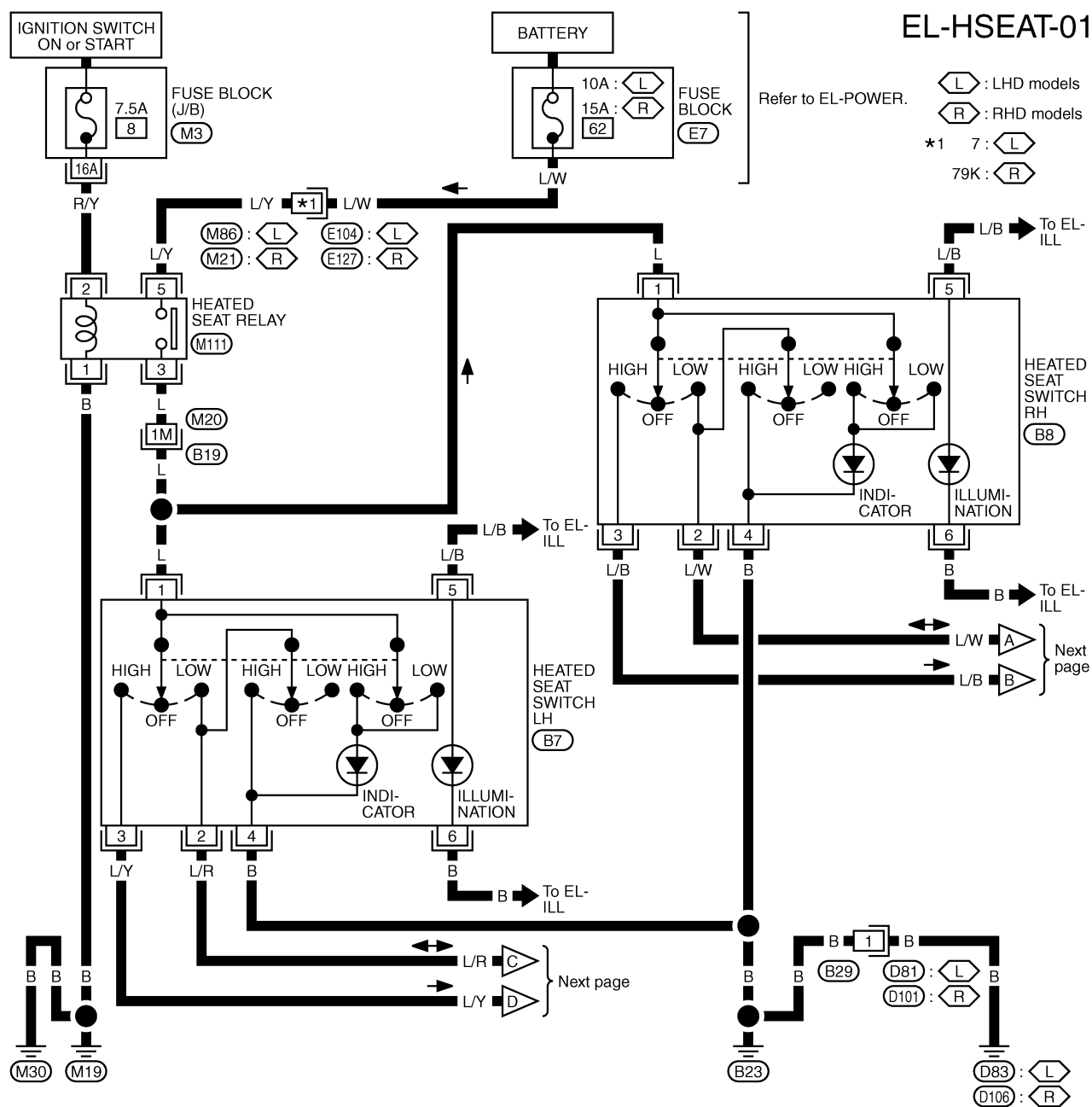
- ET : For Europe and with theft warning system
- OE : Except for Europe and with theft warning system

Components and Connections:

- Preceding page:** Includes terminals H, J, K, L, M, N, P and relays R, W.
- DOOR MIRROR REMOTE CONTROL SWITCH (M14):** Includes terminals 9, 8, 10 and an ILLUMINATION lamp.
- DOOR MIRROR (PASSENGER SIDE) (D23):** Includes terminals 4, 5, 6, 3, 7 and relays M, N, O.
- Relays and Switches:** M84 (D21), M175 (D29), M16P, M15P, M14P, M11P.



Wiring Diagram — HSEAT —



Refer to last page (Foldout page).

(M20), (B19)

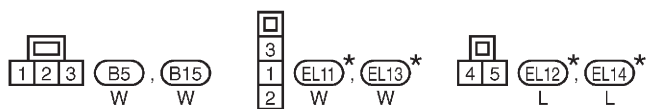
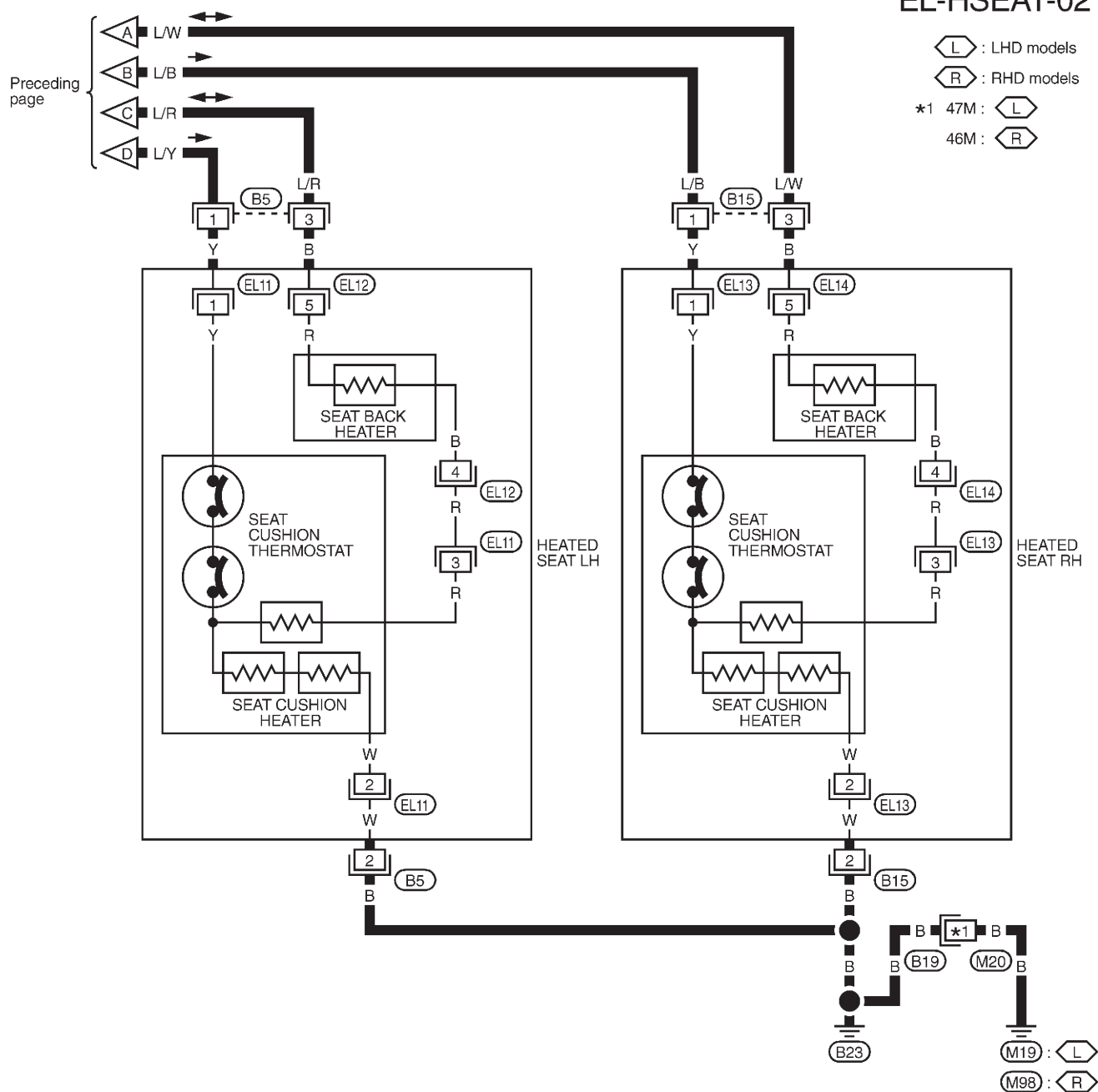
(M21), (E127)



E7

Wiring Diagram — HSEAT — (Cont'd)

EL-HSEAT-02



Refer to last page (Foldout page).

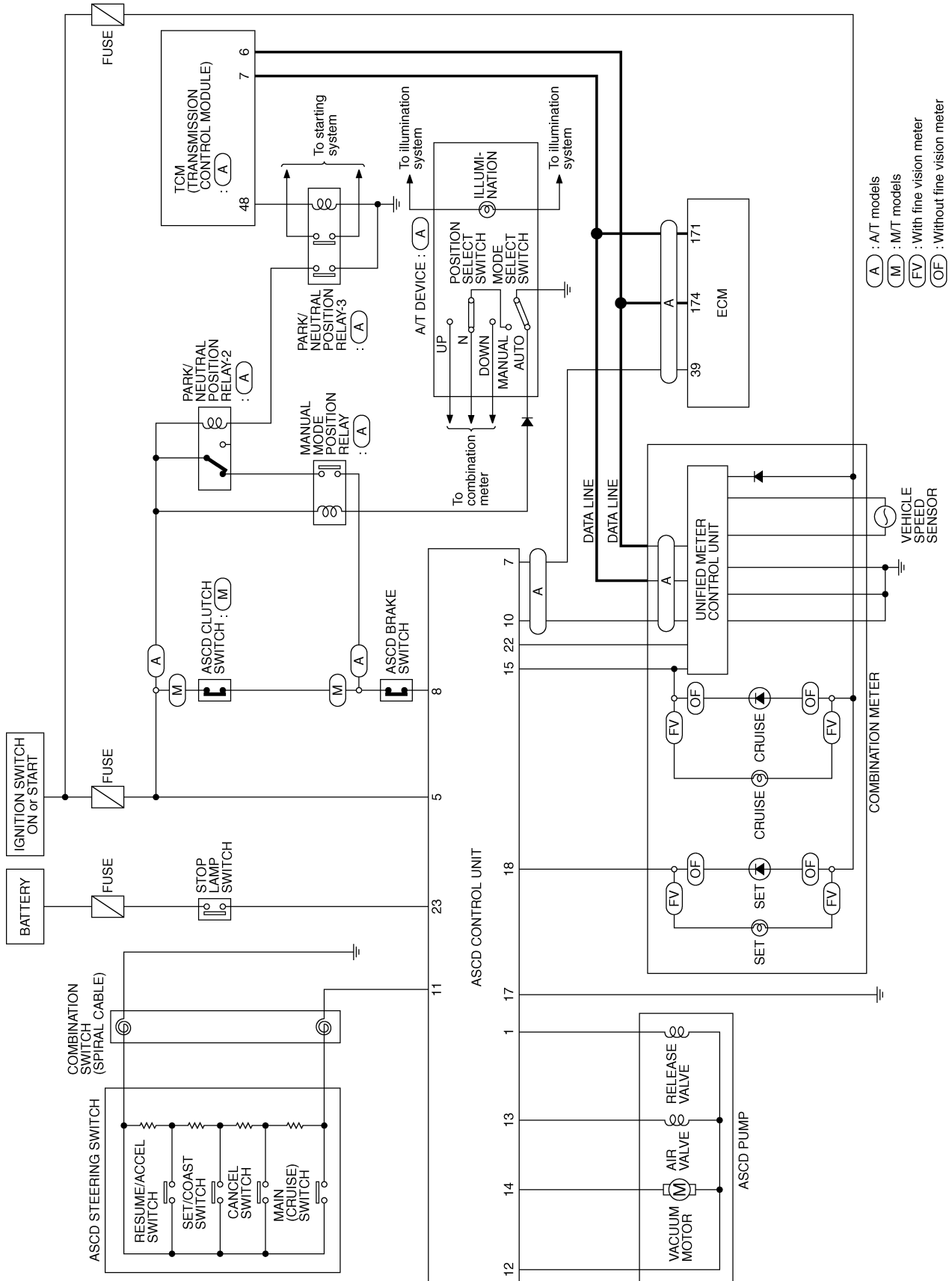
(M20) , (B19)

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

TEL671A

AUTOMATIC SPEED CONTROL DEVICE (ASCD)/WAGON AND HARDTOP MODELS

Schematic/TB48 and TD42Ti Engine Models

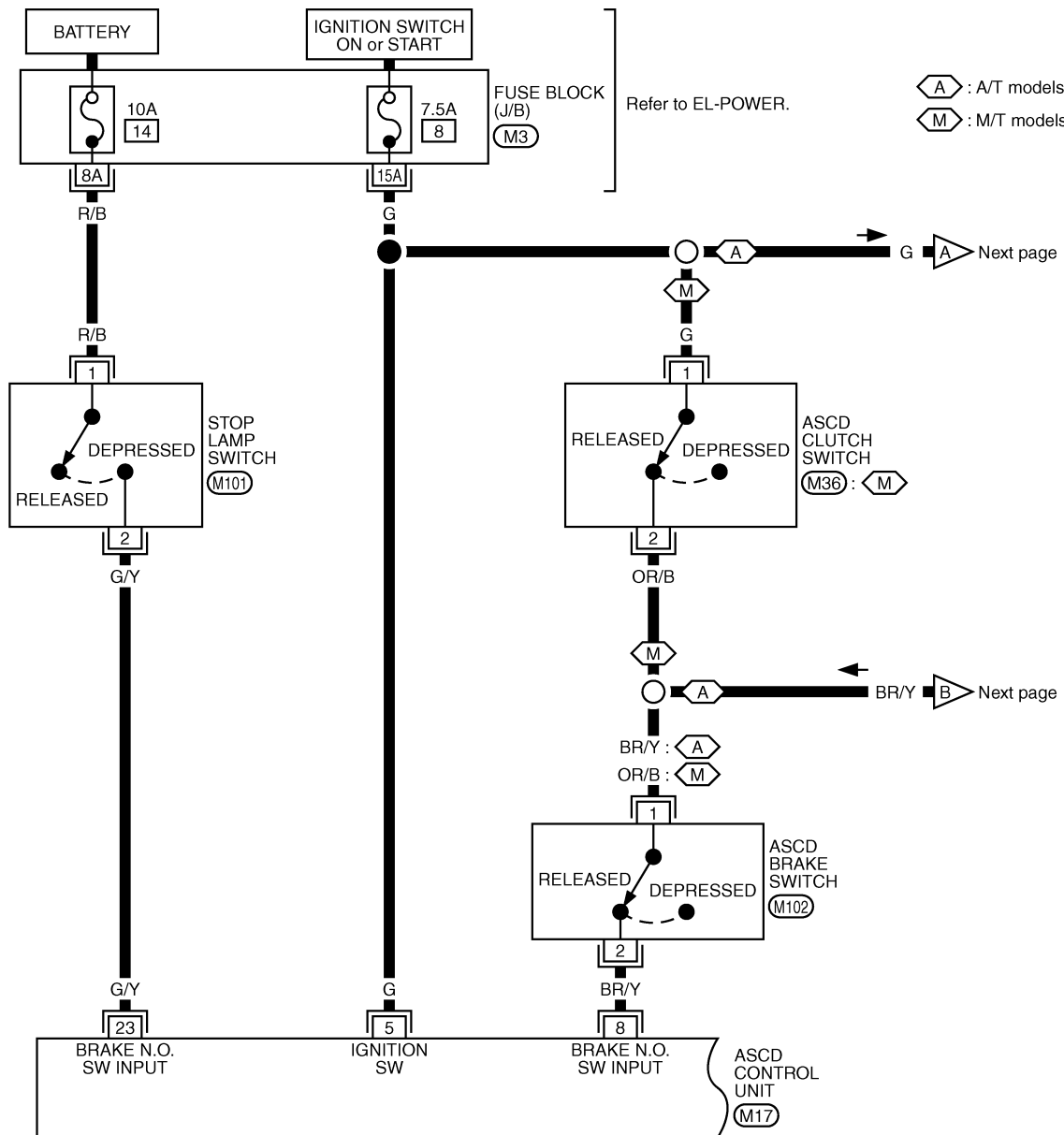


TEL088N

AUTOMATIC SPEED CONTROL DEVICE (ASCD)/WAGON AND HARDTOP MODELS

Wiring Diagram — ASCD —/TB48 and TD42Ti Engine Models

EL-ASCD-01



11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14
13	12									

(M17)
BR

1	2
---	---

(M36), (M102)
L L

1	2
---	---

(M101)
B

Refer to last page (Foldout page).

(M3)

Wiring Diagram — ASCD —/TB48 and TD42Ti Engine Models (Cont'd)

EL-ASCD-02

Preceding page

DATA LINE

L : LHD models
R : RHD models
A : A/T models

*1 18 : L *5 7 : L
56K : R 18 : R
*2 19K : L *6 8 : L
57K : R 19 : R
*3 69M : L
11M : R
*4 47M : L
46M : R

Preceding page

BR/Y

DIODE (M154) : A

MANUAL MODE POSITION RELAY (M153) : A

PARK/NEUTRAL POSITION RELAY-2 (E63) : A

TCM (TRANSMISSION CONTROL MODULE) (E123, E124) : A

START-RLY (E123, E124) : A

PARK/NEUTRAL POSITION RELAY-3 (E147) : A

POSITION SELECT SWITCH

MODE SELECT SWITCH

A/T DEVICE (B25) : A

To EL-AT/IND

To EL-ILL

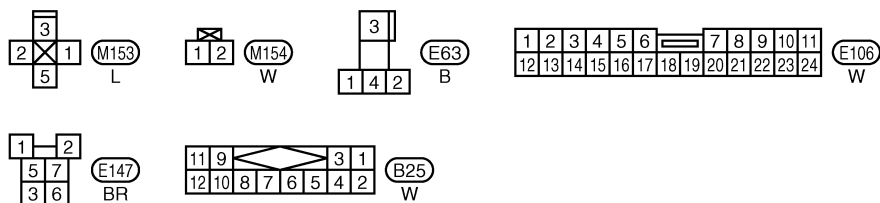
To EL-ASCD-04

To EL-START

To EL-START

B23

M19 : L
M98 : R
E25 : L
E40 : R
E25 : R

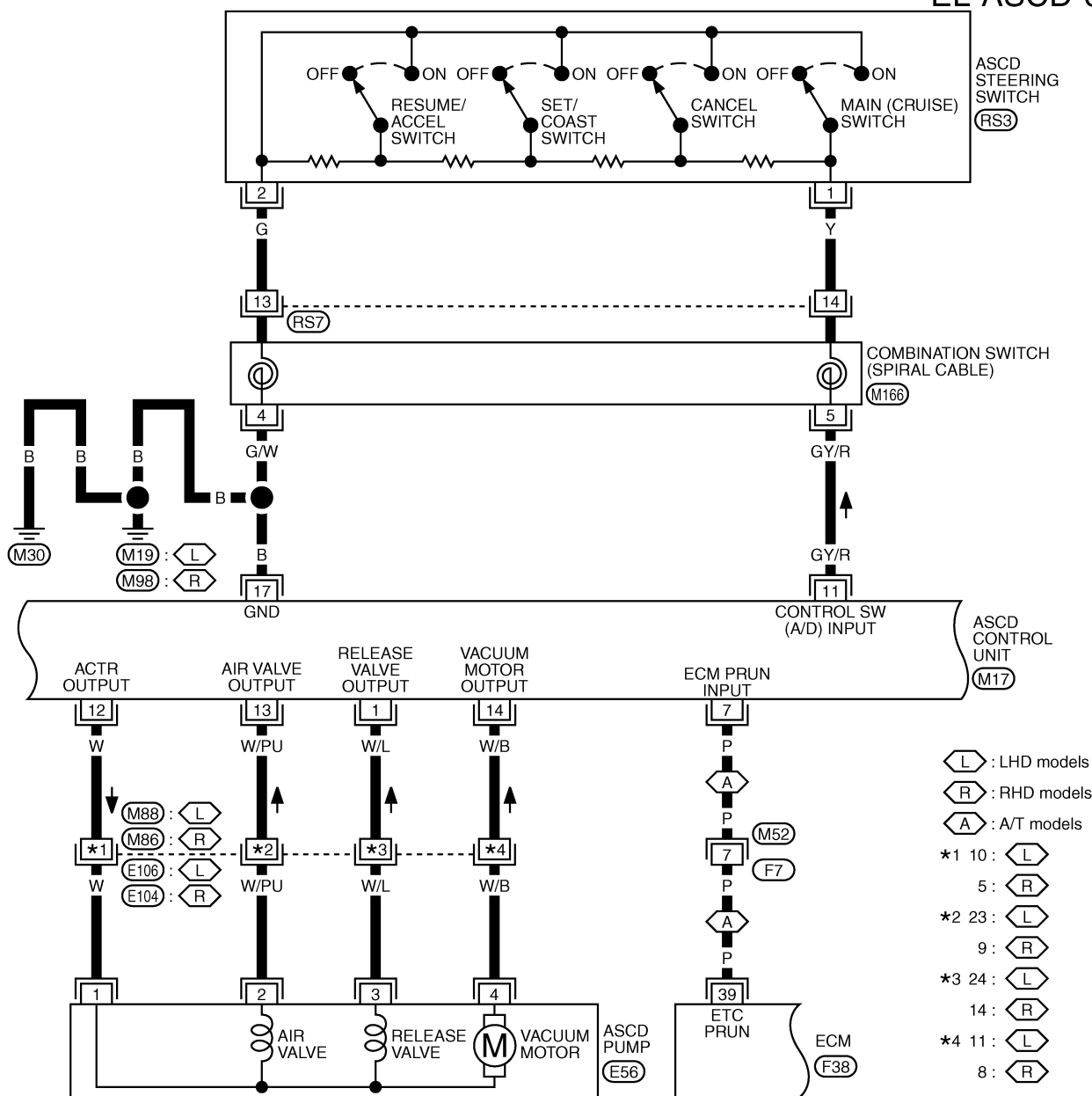


(M20), (B19)
(M21), (E127)
(E123)
(E124)

AUTOMATIC SPEED CONTROL DEVICE (ASCD)/WAGON AND HARDTOP MODELS

Wiring Diagram — ASCD —/TB48 and TD42Ti Engine Models (Cont'd)

EL-ASCD-03



- (L) : LHD models
- (R) : RHD models
- (A) : A/T models
- *1 10: (L)
5: (R)
- *2 23: (L)
9: (R)
- *3 24: (L)
14: (R)
- *4 11: (L)
8: (R)

11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14

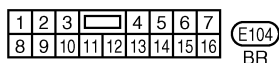
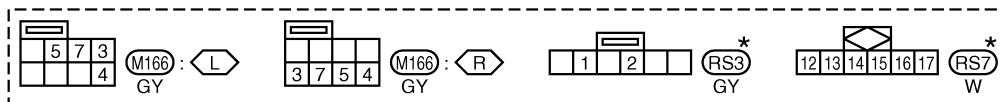
(M17)
BR

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

(M52)
W

(E106)
W

Refer to last page (Foldout page).
(F38)

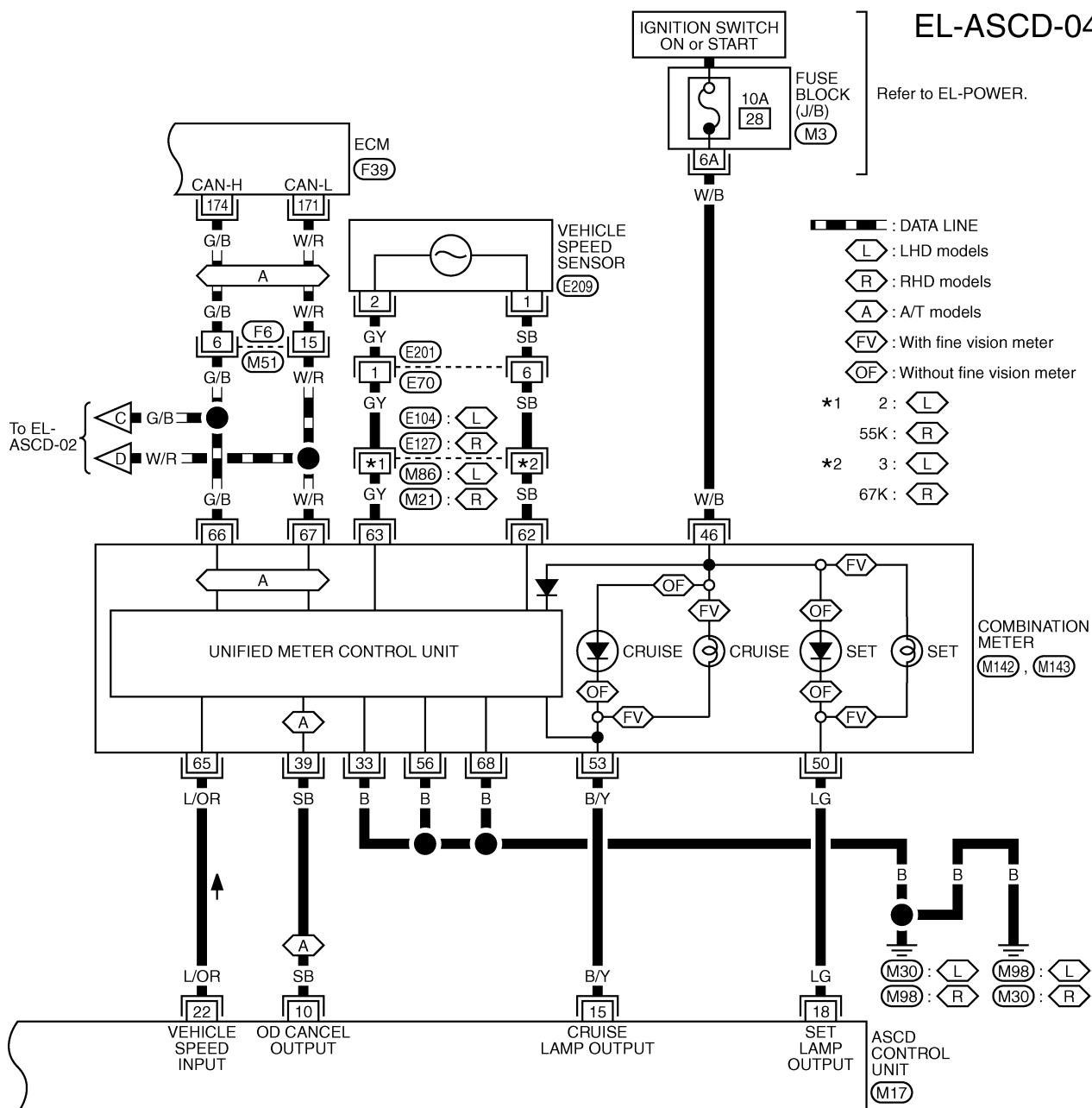


*: This connector is not shown in "HARNESS LAYOUT", EL section.

AUTOMATIC SPEED CONTROL DEVICE (ASCD)/WAGON AND HARDTOP MODELS

Wiring Diagram — ASCD —/TB48 and TD42Ti Engine Models (Cont'd)

EL-ASCD-04



11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14

(M17)
BR

1	2	3	4	5	6	7
8	9	10	11	12	13	14

(M51)
W

25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42

(M142)
BR

45	46	47	48	49	50	51	52	53
54	55	56	57	58	59	60	61	62

(M143)
BR

1	2	3	4	5
6	7	8	9	10

(E104)
W

1	2	3	4	5
6	7	8	9	10

(E201)
GY

2	1
---	---

(E209)
GY

Refer to last page (Foldout page).

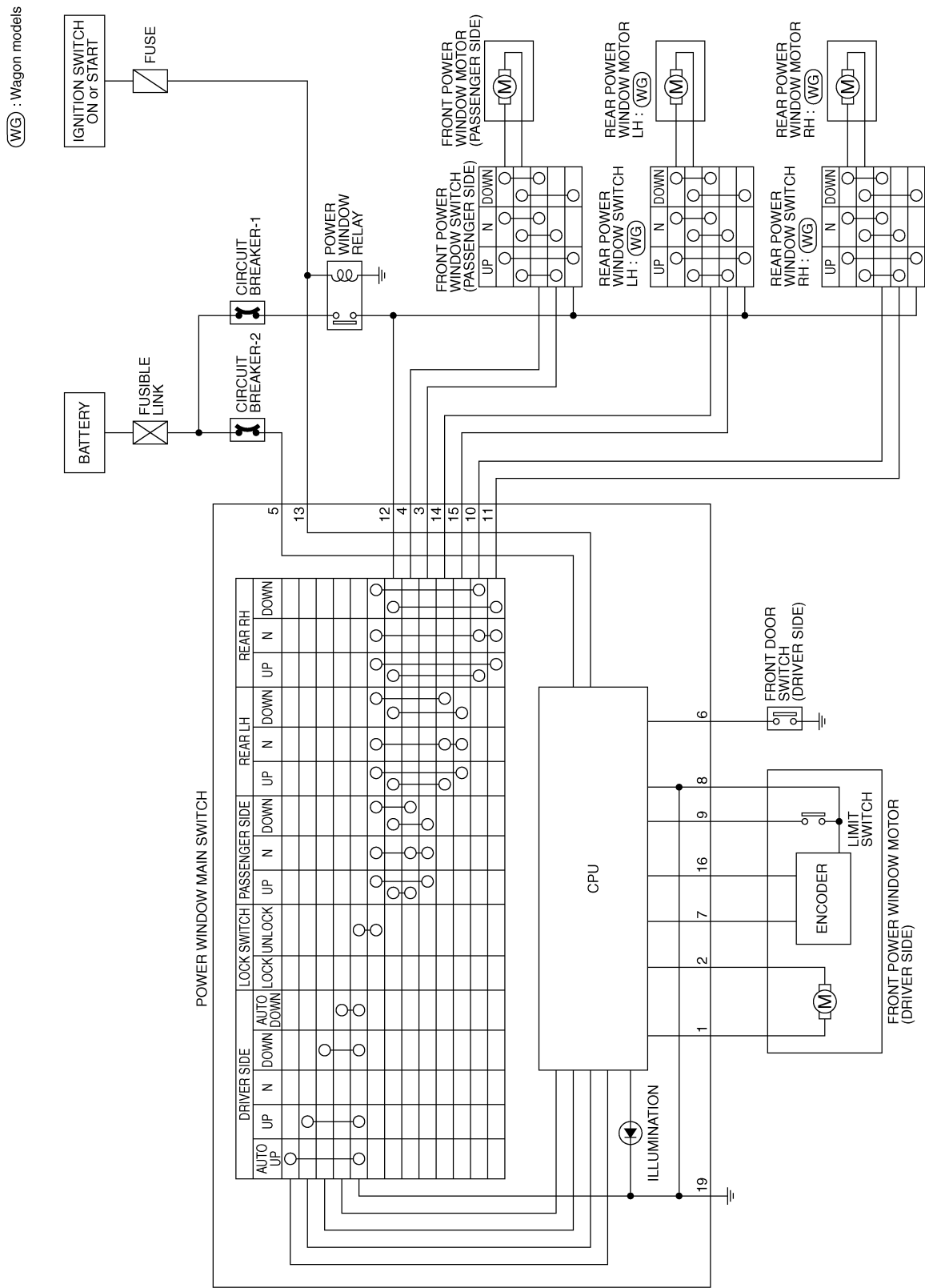
(M21), (E127)

(M3)

(F39)

POWER WINDOW/WAGON AND HARDTOP MODELS

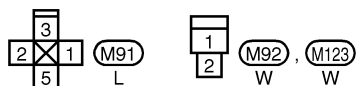
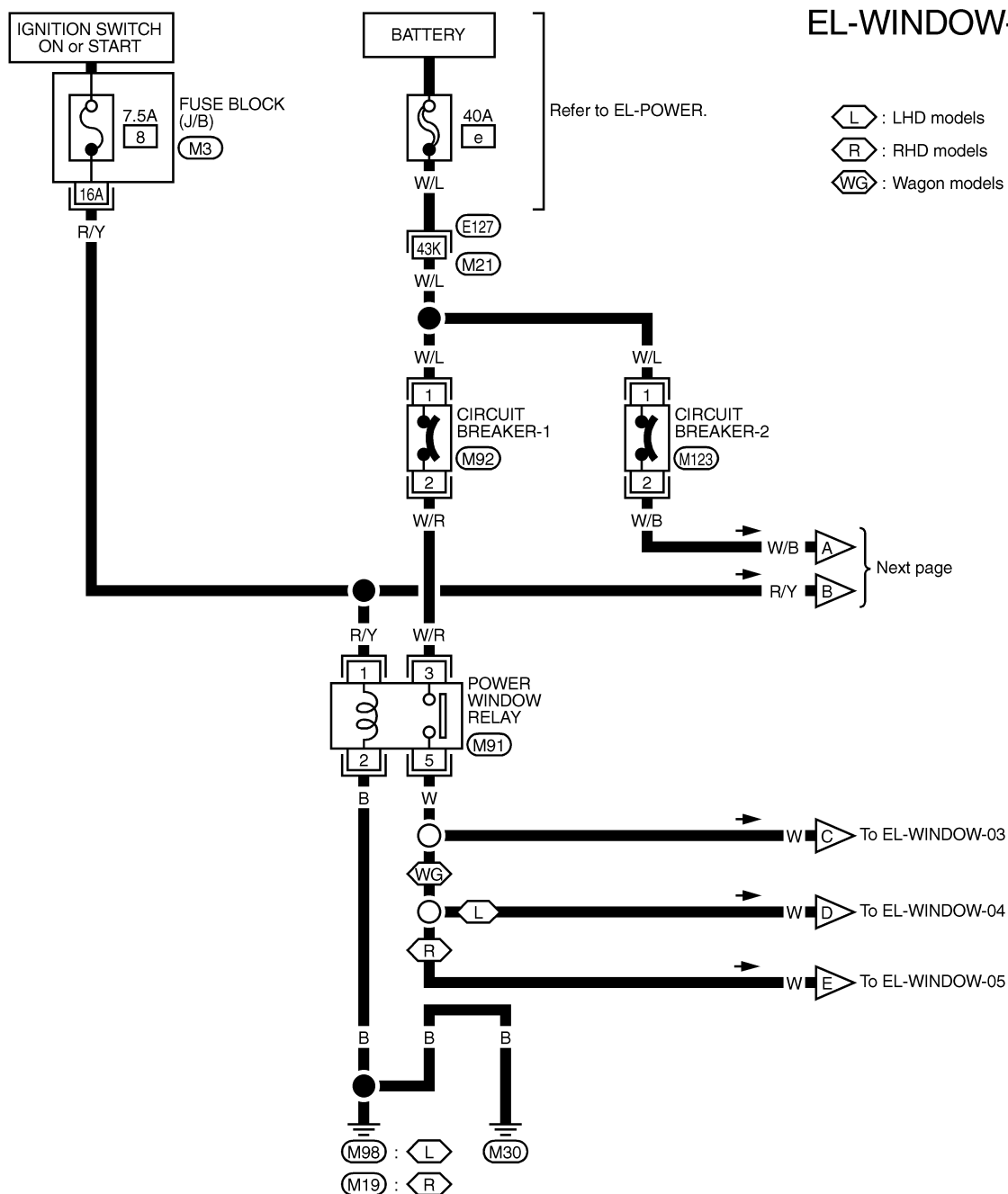
Schematic



POWER WINDOW/WAGON AND HARDTOP MODELS

Wiring Diagram — WINDOW —

EL-WINDOW-01



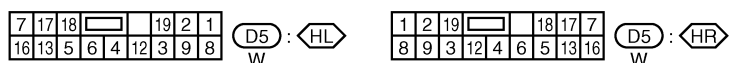
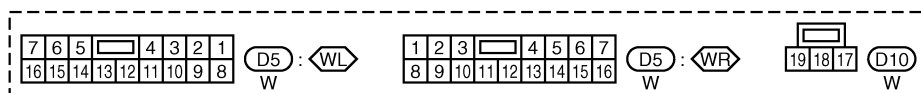
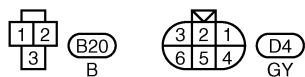
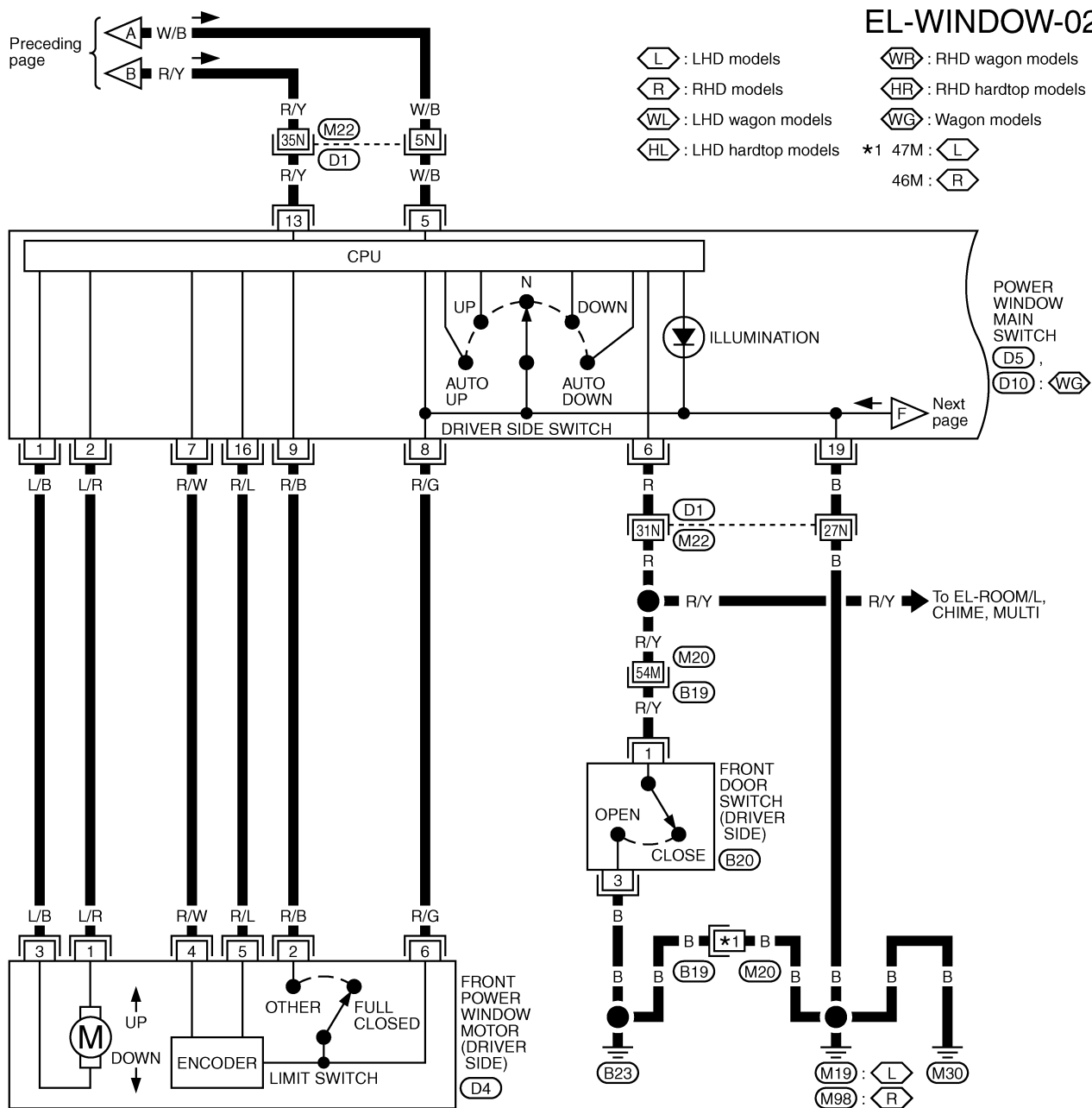
Refer to last page (Foldout page).

M21, E127

M3

Wiring Diagram — WINDOW — (Cont'd)

EL-WINDOW-02



Refer to last page (Foldout page).

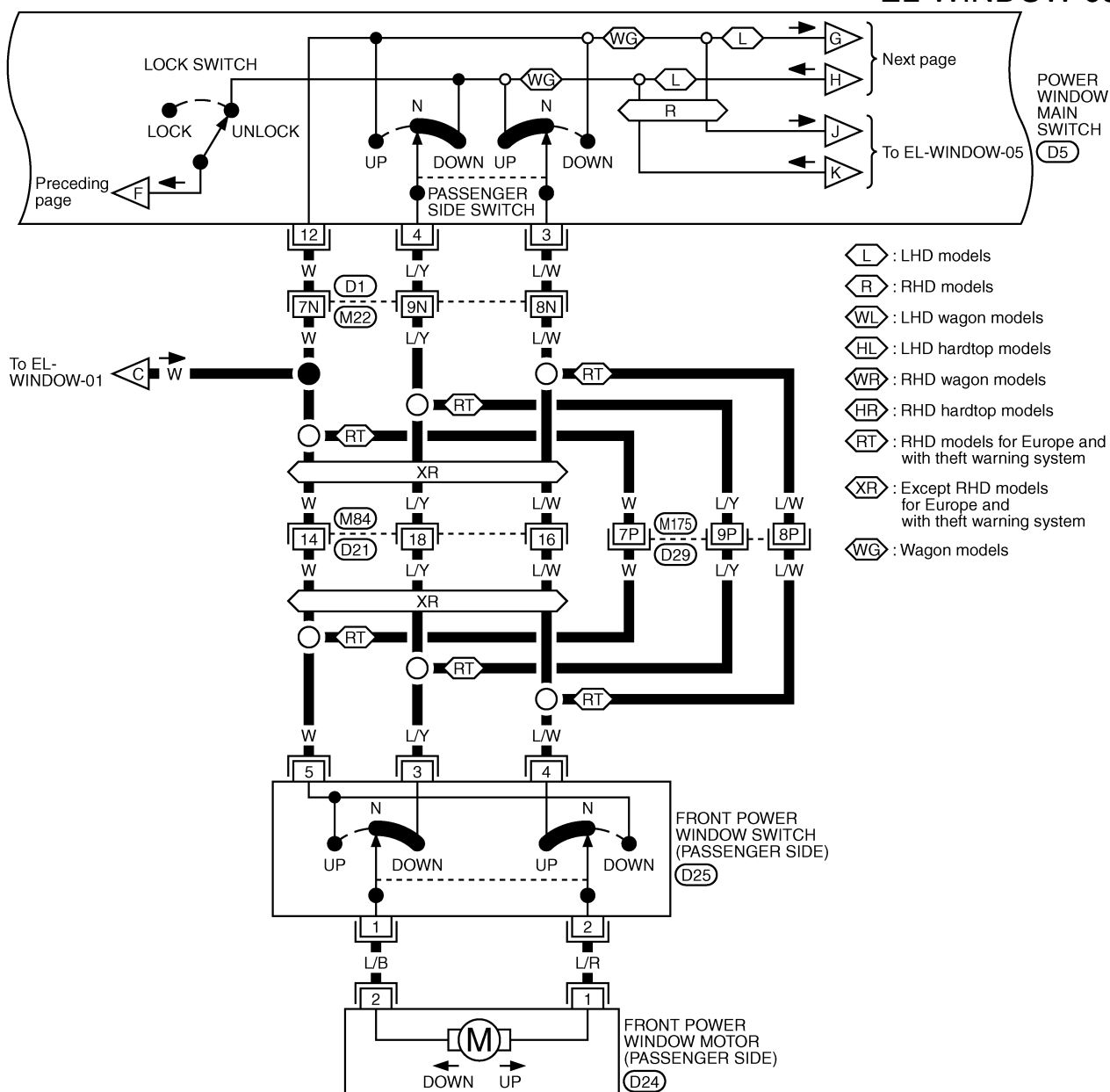
(M20), (B19)

(M22), (D1)

POWER WINDOW/WAGON AND HARDTOP MODELS

Wiring Diagram — WINDOW — (Cont'd)

EL-WINDOW-03



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

M84
W

7	6	5	4	3	2	1
16	15	14	13	12	11	10

D5 : WL
W

7	17	18	6	19	2	1
16	13	5	4	12	3	9

D5 : HL
W

1	2	3	4	5	6	7
8	9	10	11	12	13	14

D5 : WR
W

1	2	19	18	17	7
8	9	3	12	4	6

D5 : HR
W

1	2
4	1

D24
B

4	1	3	2	5
---	---	---	---	---

D25
W

Refer to last page (Foldout page).

M22, D1

M175, D29

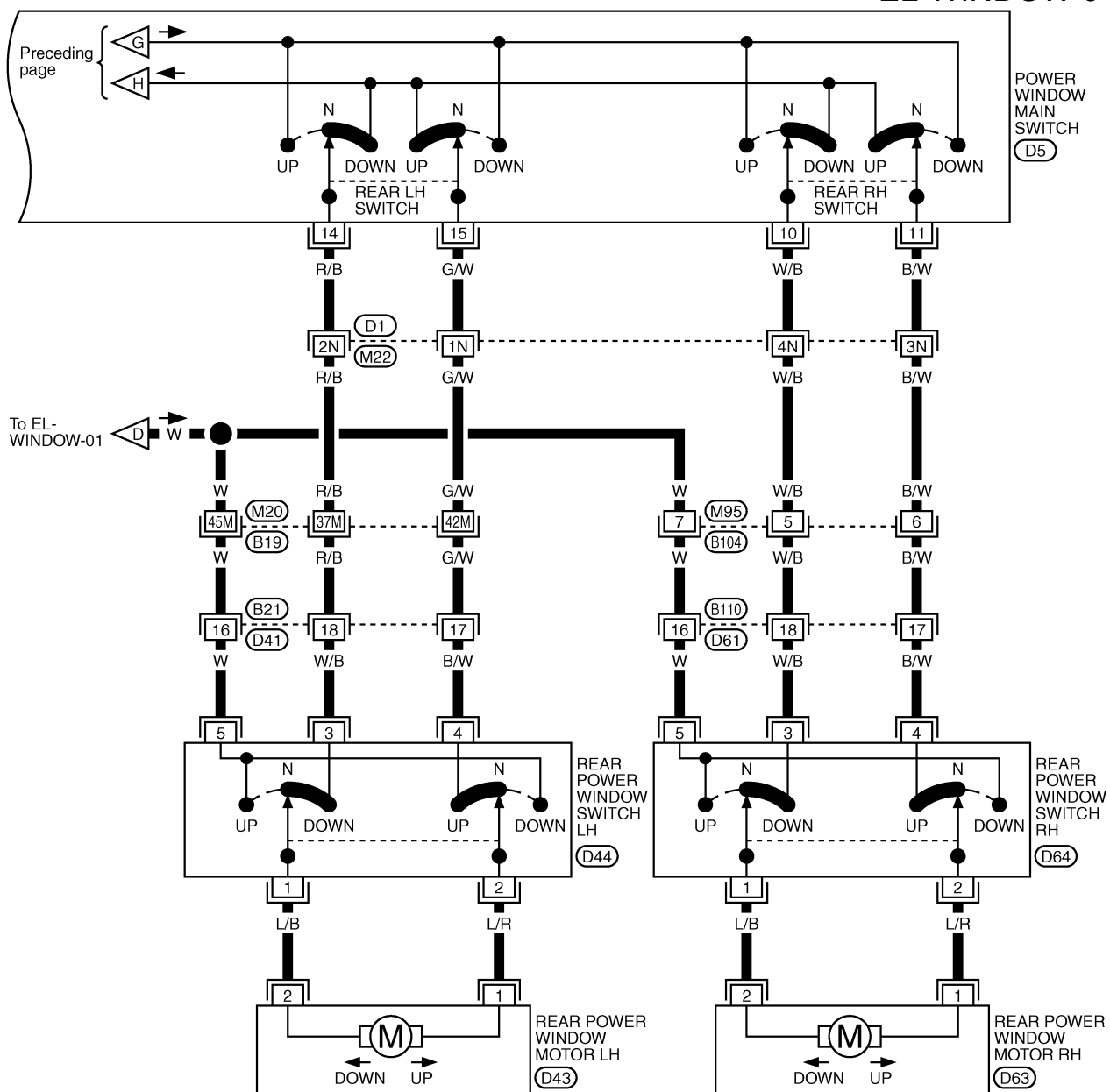
TEL093N

POWER WINDOW/WAGON AND HARDTOP MODELS

Wiring Diagram — WINDOW — (Cont'd)

LHD WAGON MODELS

EL-WINDOW-04



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

B21, B110
W W

1	2	3	4
5	6	7	8

B104
W

7	6	5	4	3	2	1
16	15	14	13	12	11	10

D5
W

Refer to last page (Foldout page).

M20, B19
M22, D1

1	2
---	---

D43, D63
B B

4	1	3	2	5
---	---	---	---	---

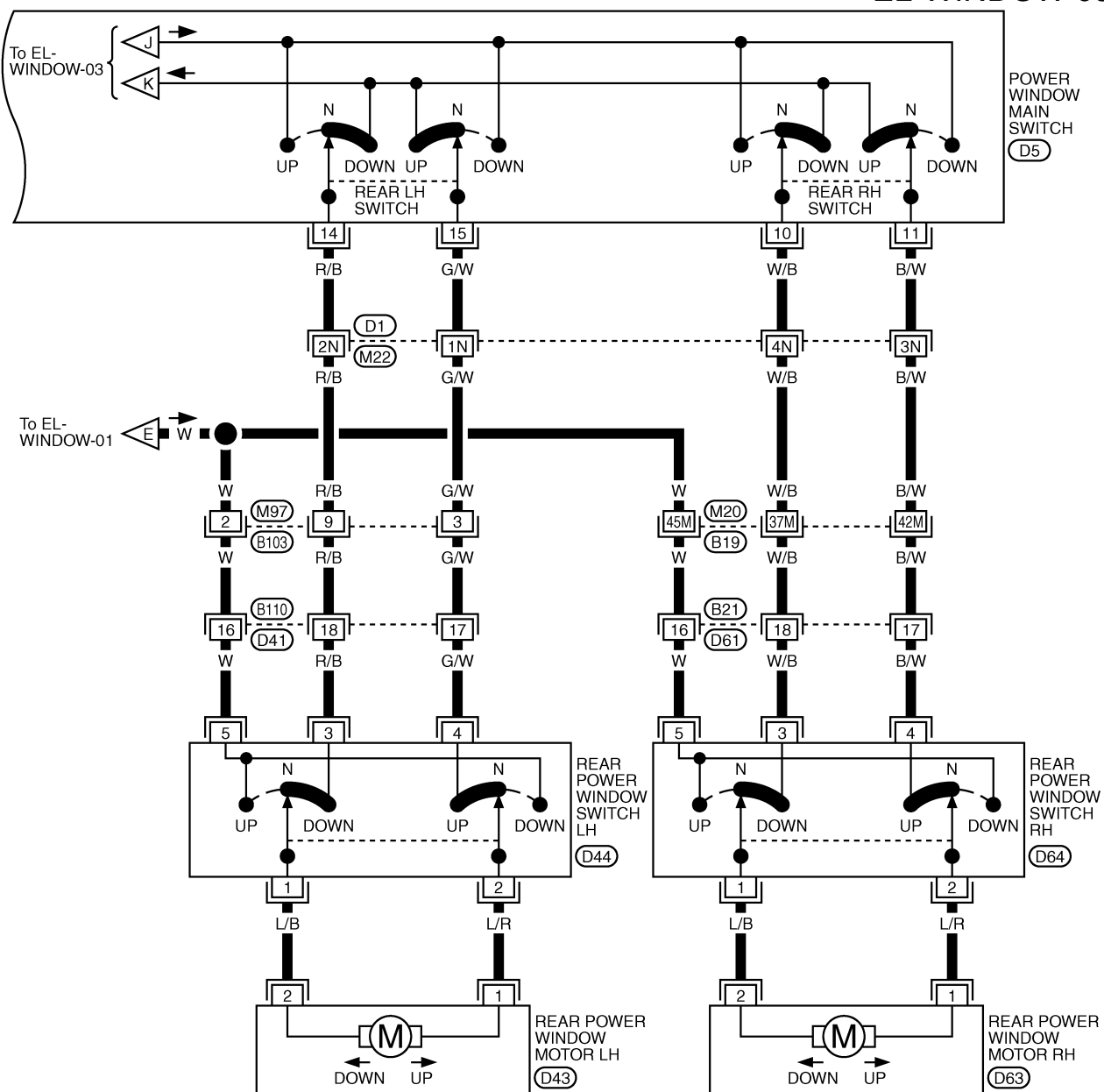
D44, D64
W W

POWER WINDOW/WAGON AND HARDTOP MODELS

Wiring Diagram — WINDOW — (Cont'd)

RHD WAGON MODELS

EL-WINDOW-05



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

B21, B110
W W

1	2	3	4	5	6	7
8	9	10	11	12	13	14

B103, D5
W W

1	2	D43, D63
B	B	

4	1	3	2	5	D44, D64
W	W				

Refer to last page (Foldout page).

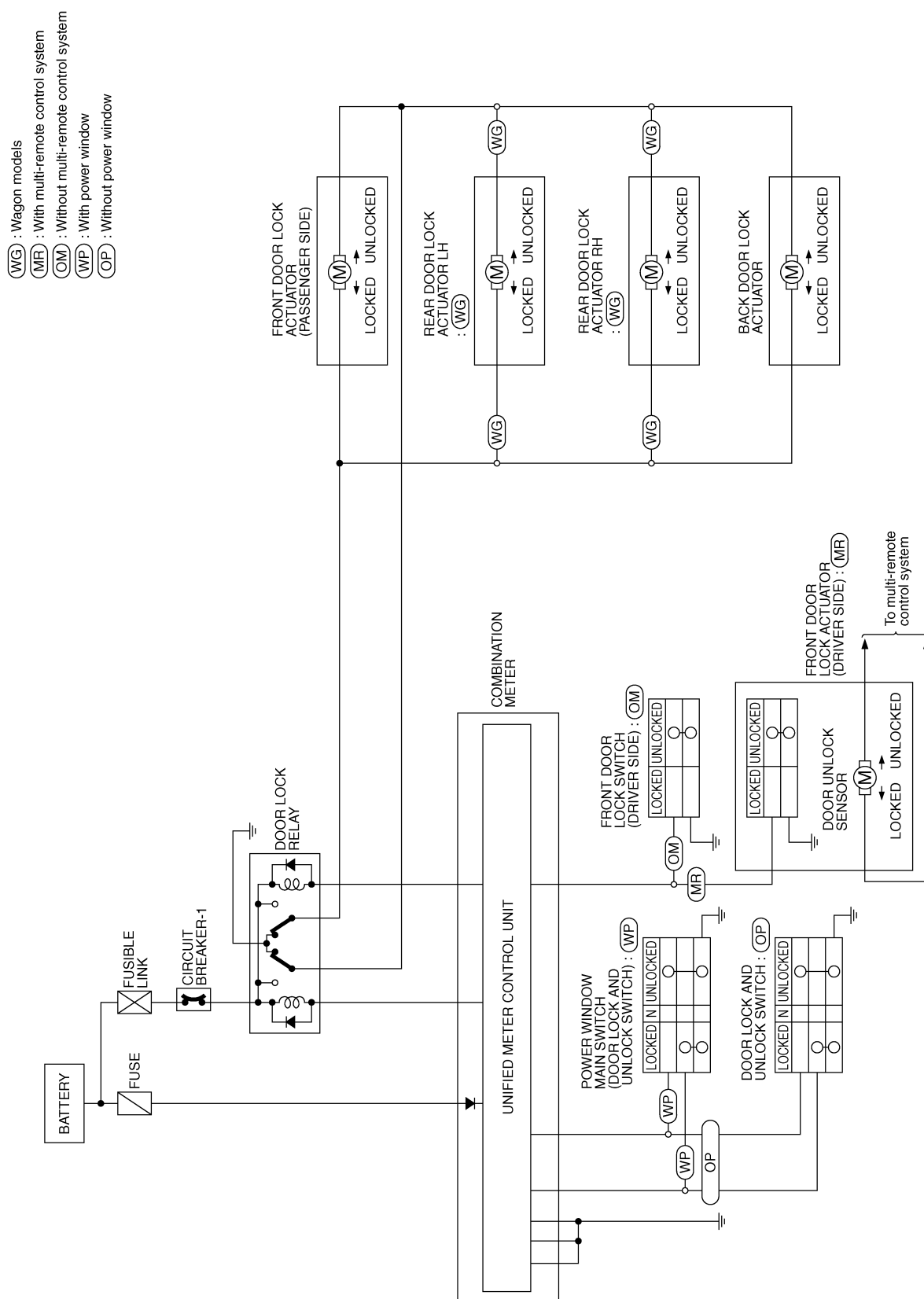
M20, B19

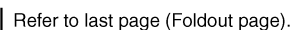
M22, D1

TEL095N

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Schematic/Without Theft Warning System Models

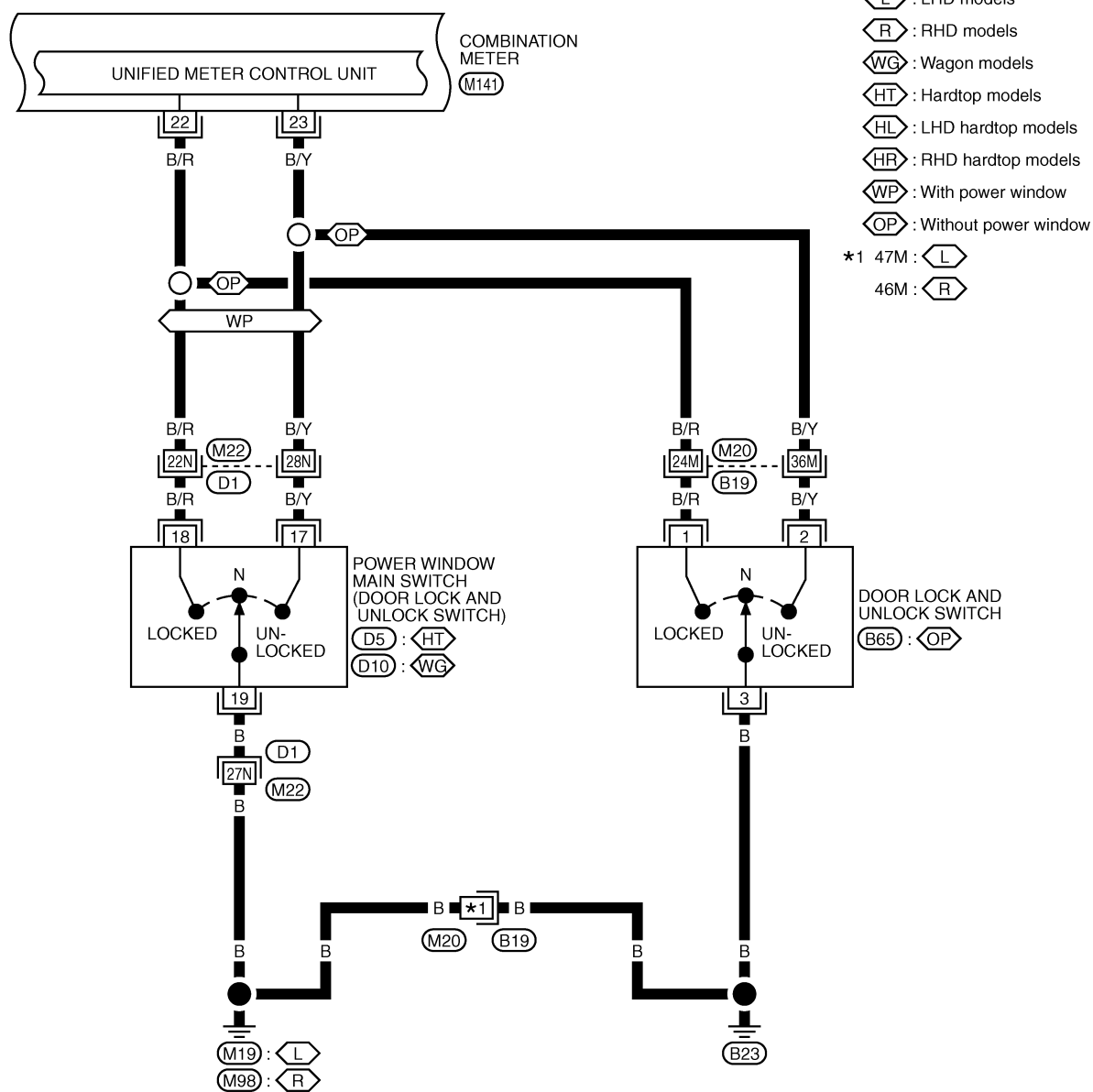




POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/Without Theft Warning System Models (Cont'd)

EL-D/LOCK-02



1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

(M141)
W

	5			4
		3	2	1

B65

W

(B65)
W

7	17	18			19	2	1	
16	13	5	6	4	12	3	9	8

(D5) : HL
W

1	2	19			18	17	7	
8	9	3	12	4	6	5	13	16

(D5) : HR
W

19	18	17
----	----	----

(D10)
W

Refer to last page (Foldout page).

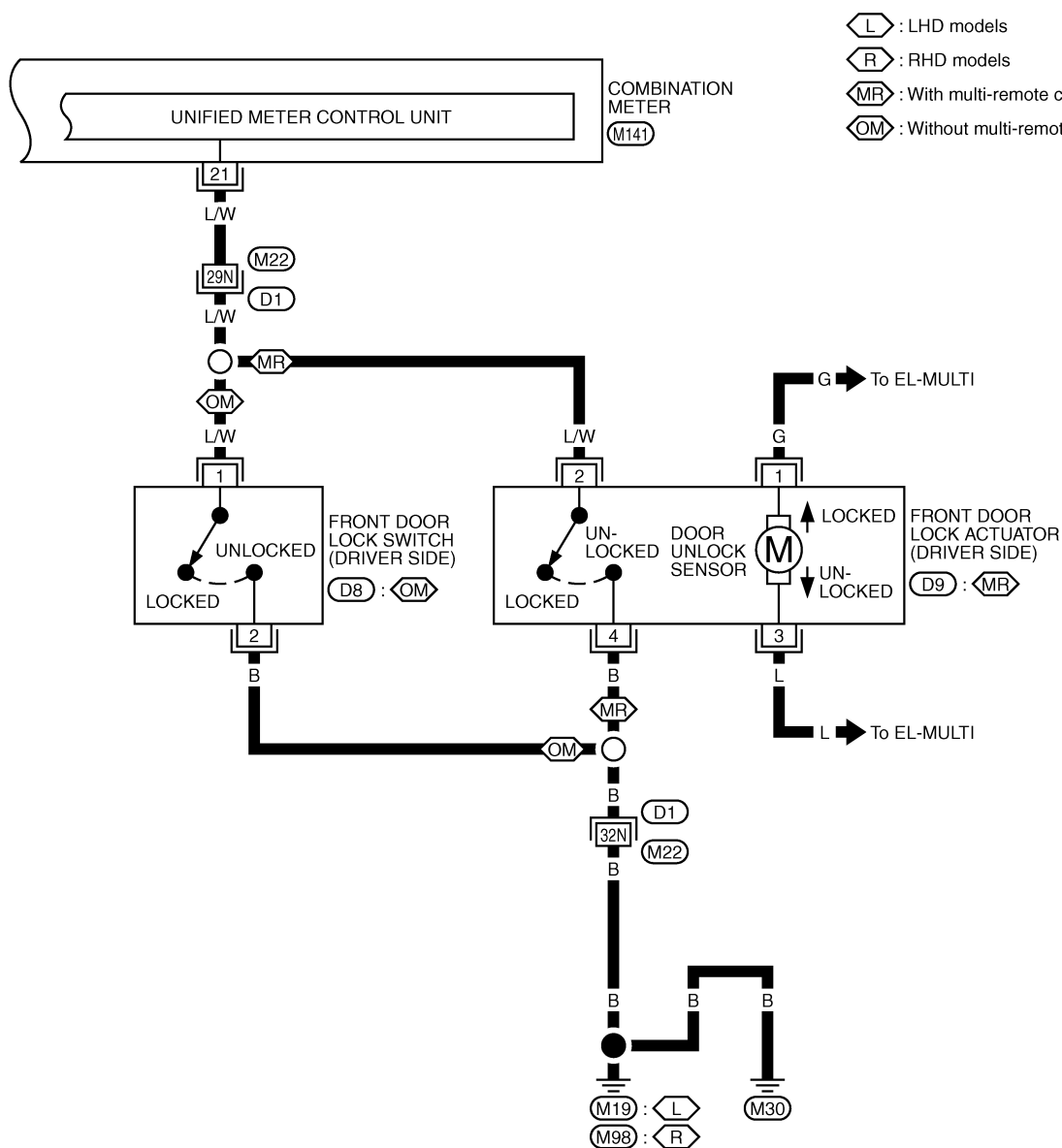
(M20) , (B19)

(M22) , (D1)

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/Without Theft Warning System Models (Cont'd)

EL-D/LOCK-03



1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

(M141)
W

2	1
---	---

(D8)
GY

3	4
1	2

(D9)
GY

Refer to last page (Foldout page).

(M22) , (D1)

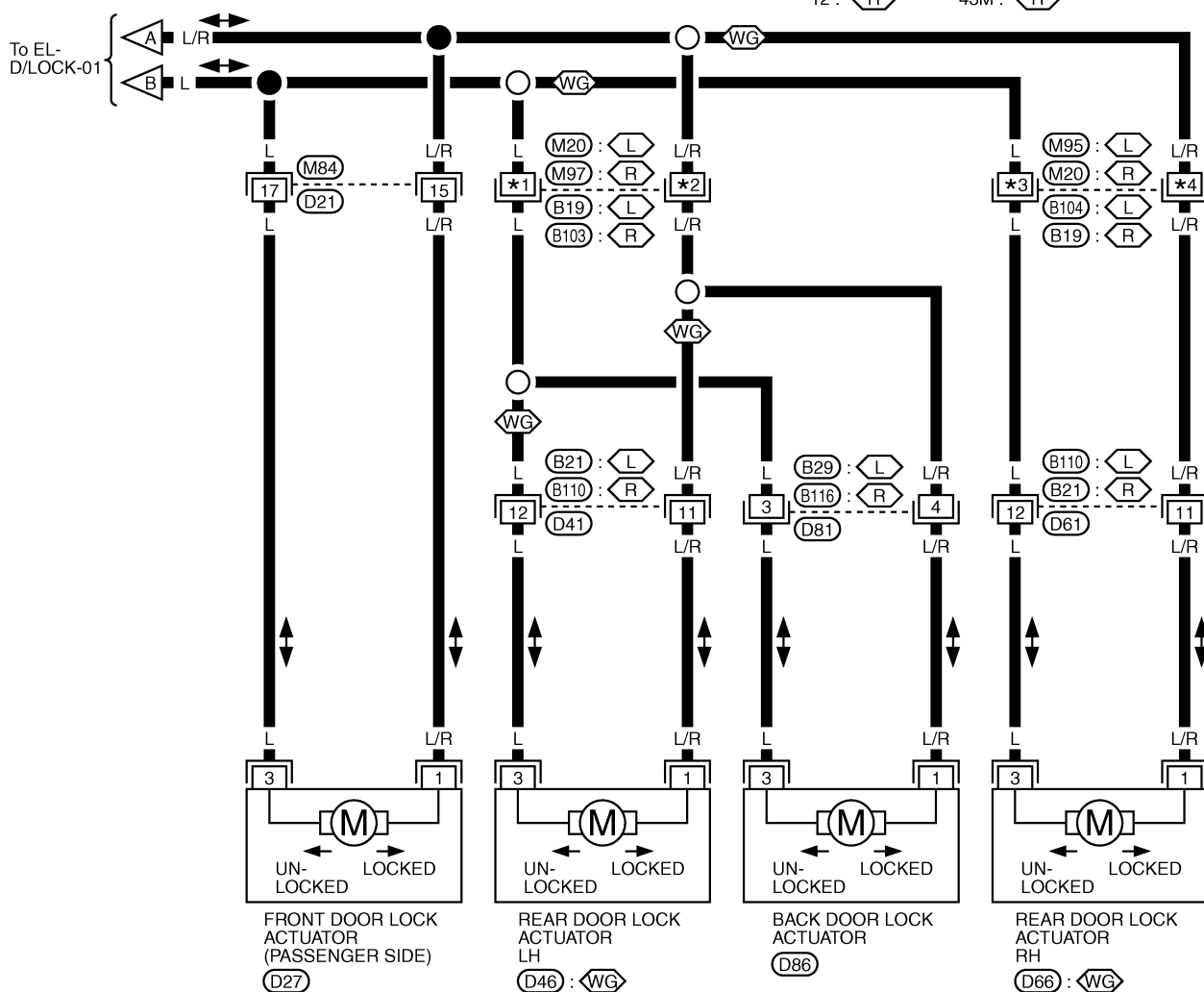
POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/Without Theft Warning System Models (Cont'd)

EL-D/LOCK-04

L : LHD models
 R : RHD models
 WG : Wagon models

*1 39M : L *3 3 : L
 13 : R 39M : R
 *2 43M : L *4 4 : L
 12 : R 43M : R



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

M84, B21, B110
W W W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 B103
W

1 2 3 4 5 6 7 8 9 10 B104
W

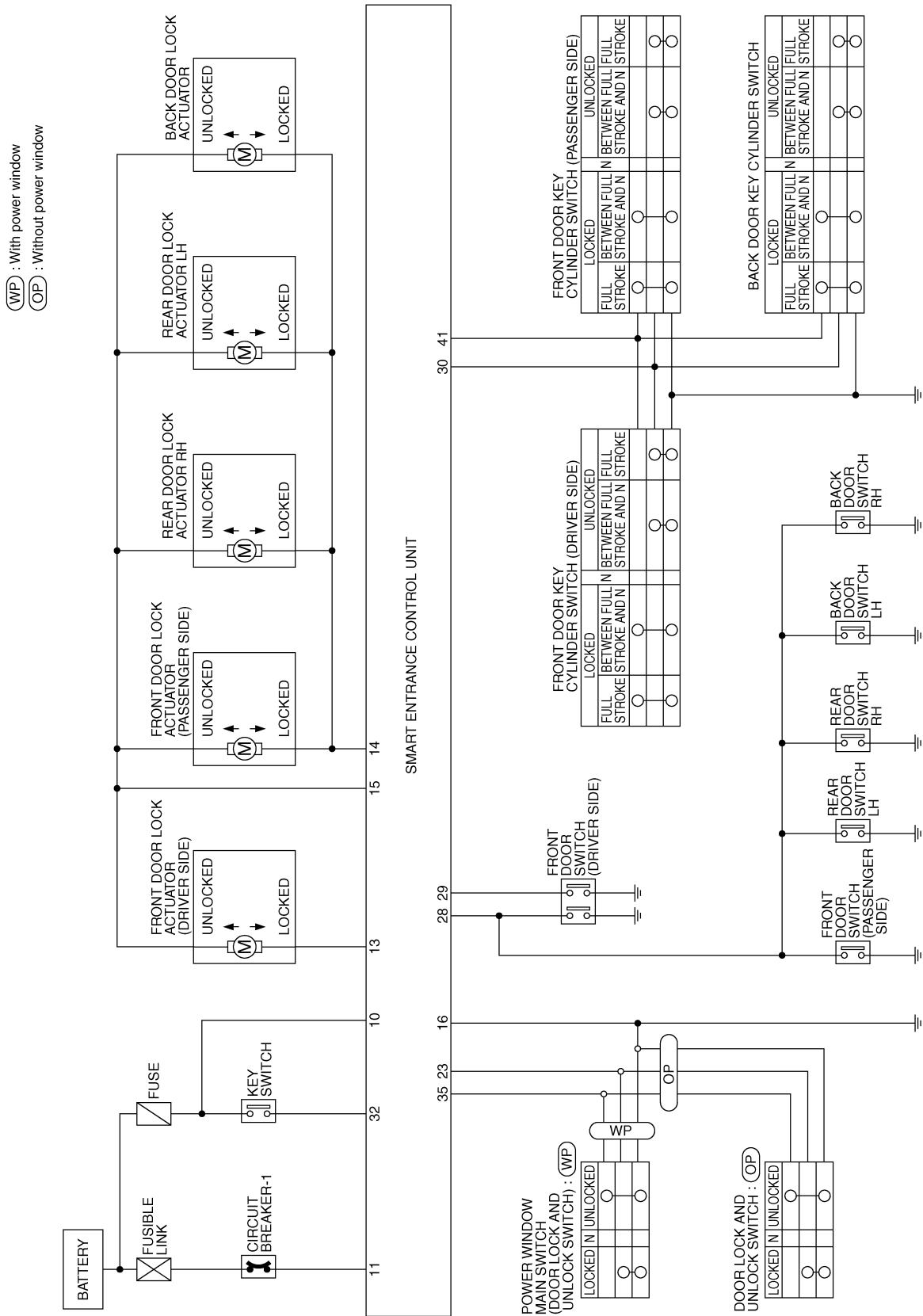
3 4 1 2 D27, D46, D66, D86
GY GY GY GY

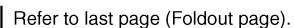
1 2 3 4 5 6 D81
W

Refer to last page (Foldout page).
M20, B19

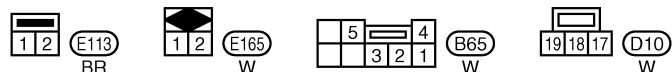
POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Schematic/With Theft Warning System Models





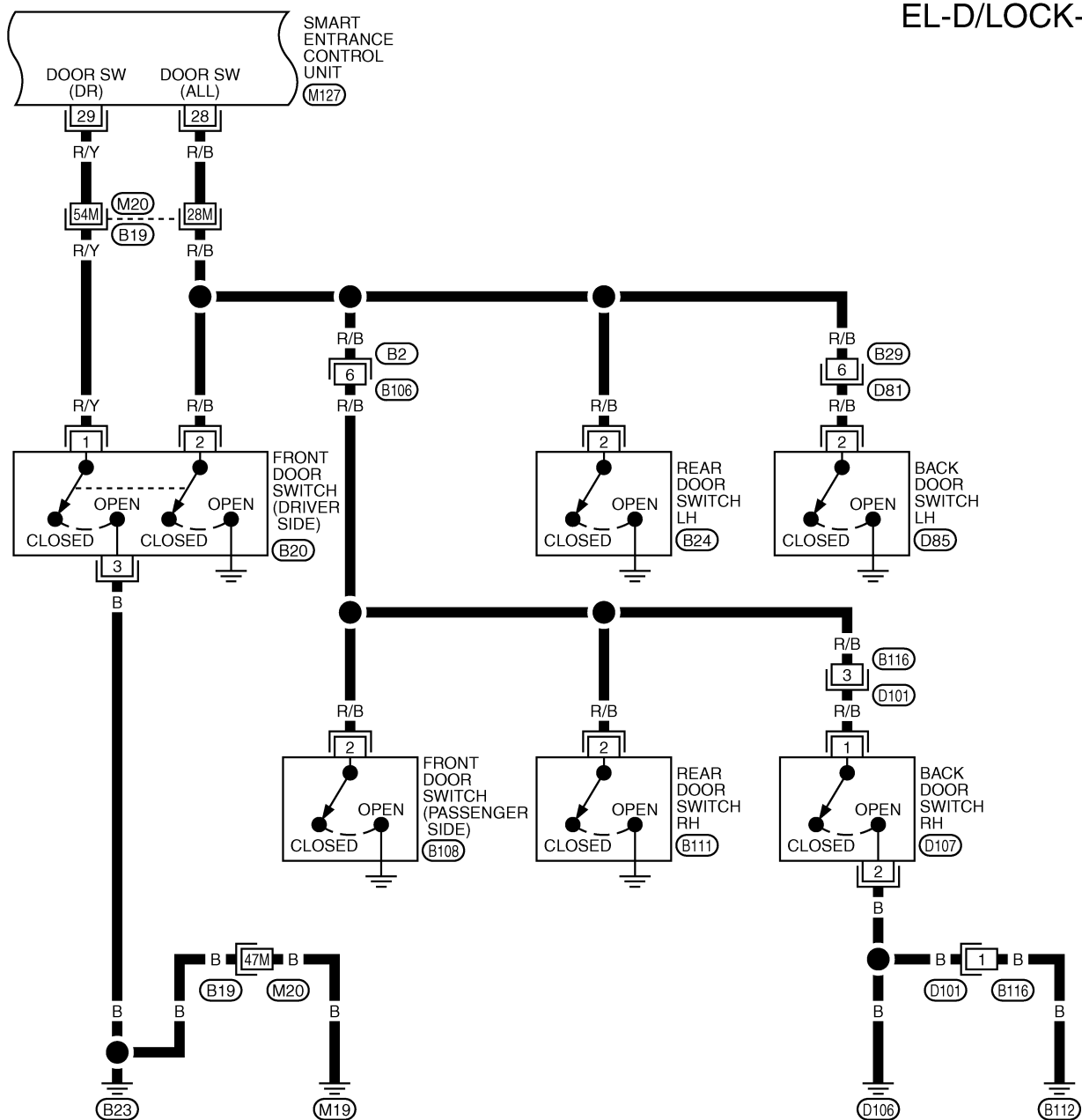
M21, E127
M22, D1
M2



POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/LHD Models With Theft Warning System (Cont'd)

EL-D/LOCK-06



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

M127
B



1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

B2
W

1	2	3
---	---	---

B20, B24, B108, B111, D85, B

1	2	3	4	5	6
---	---	---	---	---	---

D81, D101, W, W

1	2
3	4
5	6

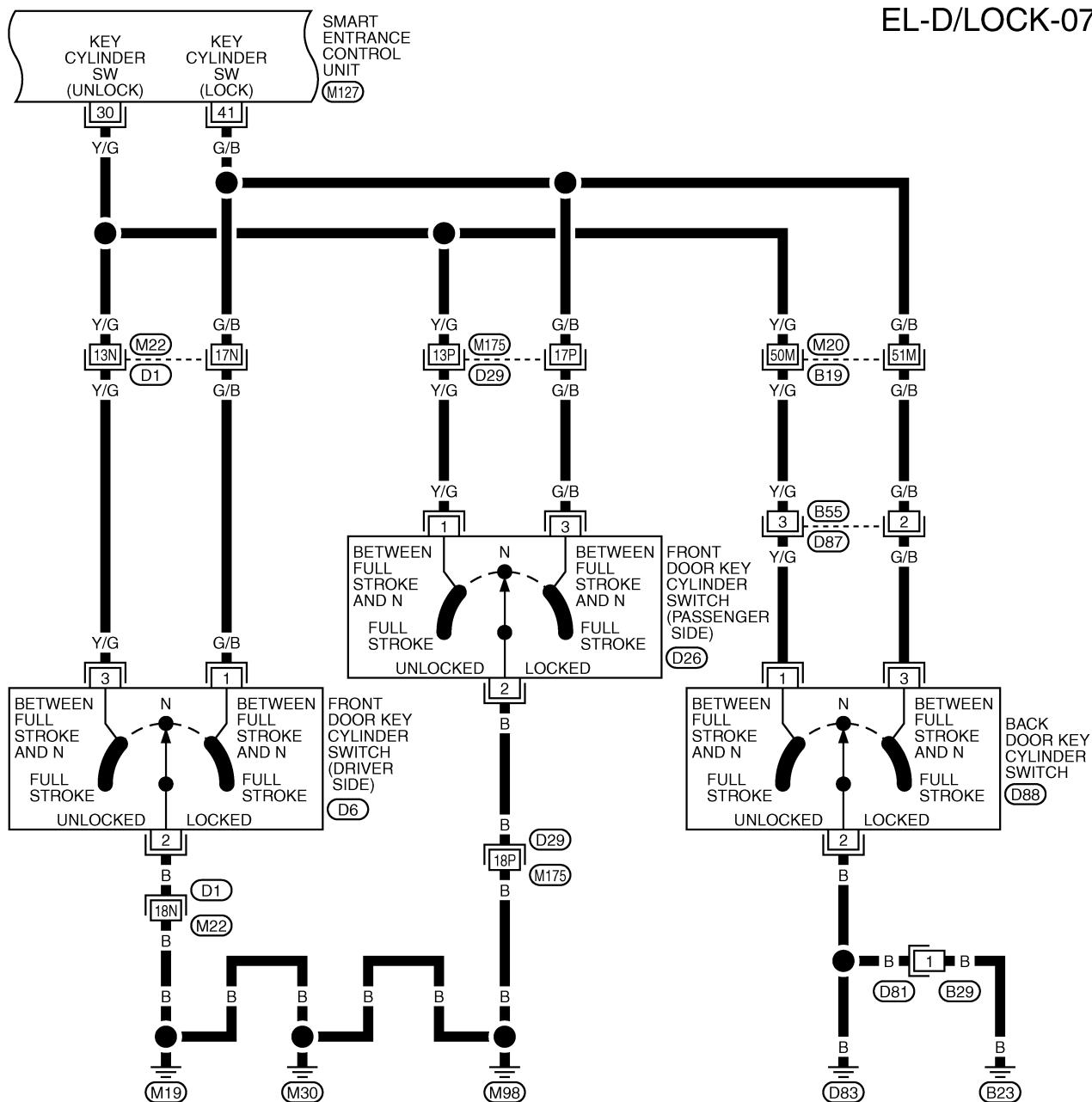
D107, W

Refer to last page (Foldout page).
M20, B19

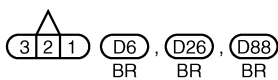
POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/LHD Models With Theft Warning System (Cont'd)

EL-D/LOCK-07



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42



D6, D26, D88
BR BR BR

1	2
3	4
5	6

D81
W

1	2	3	4
---	---	---	---

D87
W

Refer to last page (Foldout page).

M20, B19

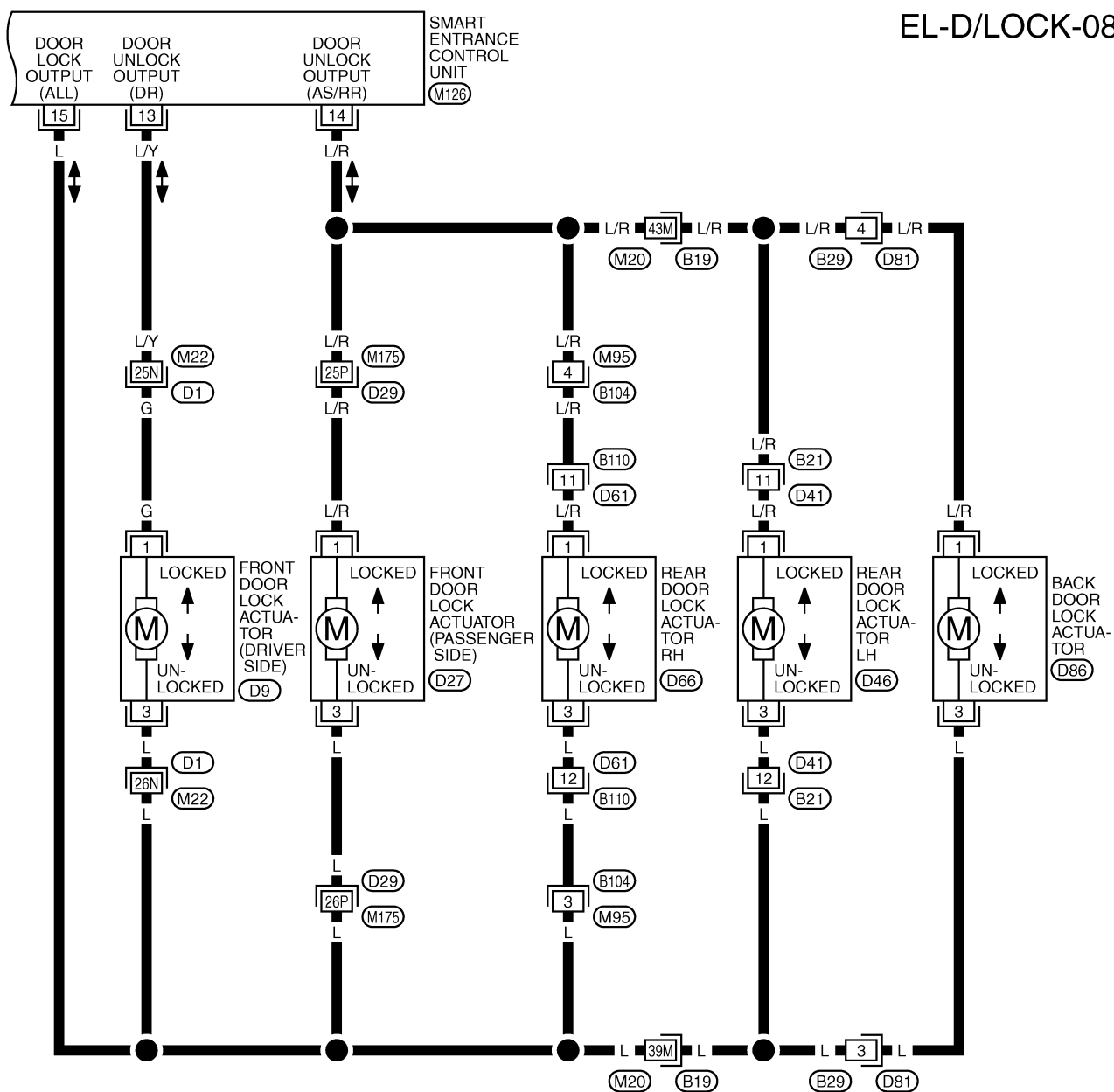
M22, D1

M175, D29

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — D/LOCK —/LHD Models With Theft Warning System (Cont'd)

EL-D/LOCK-08



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(M126)
W



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(B21), (B110)
W

1	2	3	4
5	6	7	8

(B104)
W

3	4
1	2

(D9), (D27), (D46), (D66), (D86)
GY

1	2
3	4

(D81)
W

Refer to last page (Foldout page).

(M20), (B19)

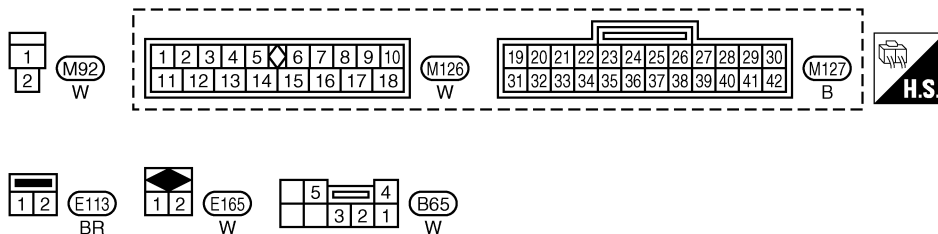
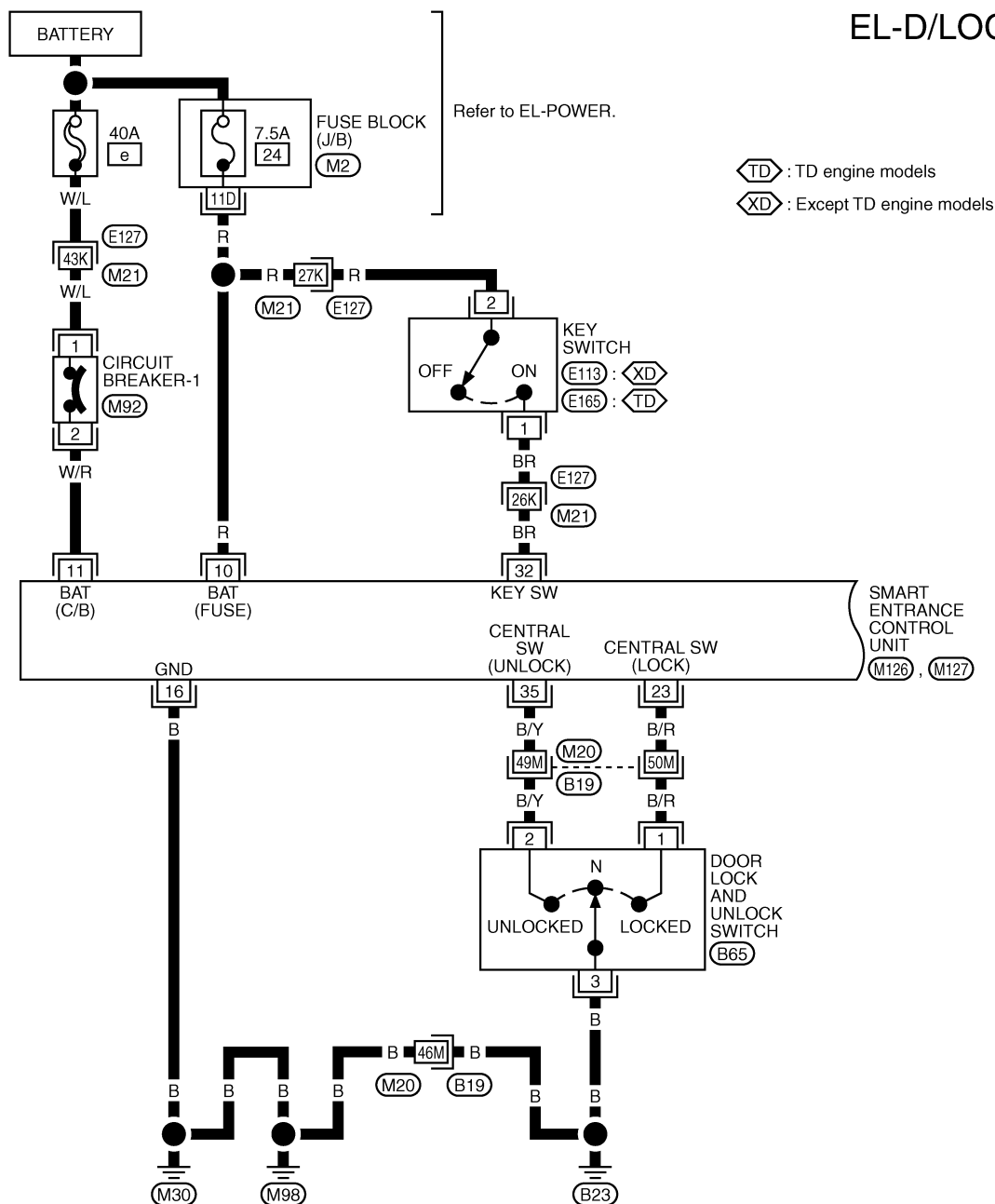
(M22), (D1)

(M175), (D29)

TEL104N

Wiring Diagram — D/LOCK —/RHD Models With Theft Warning System

EL-D/LOCK-09



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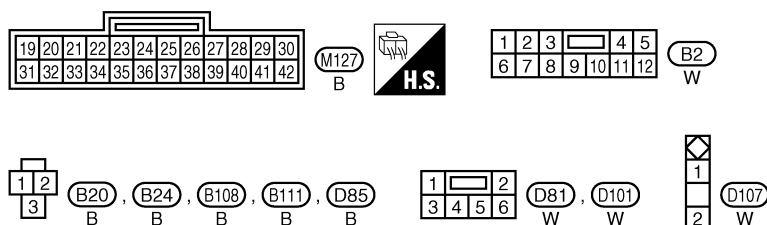
M20, B19
M21, E127
M2

Wiring Diagram — D/LOCK —/RHD Models With Theft Warning System (Cont'd)

The diagram illustrates the wiring for the EL-D/LOCK-10 system. It shows the following components and connections:

- SMART ENTRANCE CONTROL UNIT (M127)**: The central control unit.
- DOOR SW (DR)**: Driver's side door switch, connected to terminal 29 (R/Y).
- DOOR SW (ALL)**: All doors switch, connected to terminal 28 (R/B).
- FRONT DOOR SWITCH (DRIVER SIDE) (B20)**: Contains two switches (OPEN/CLOSED) connected to terminals 1 (R/Y) and 2 (R/B).
- FRONT DOOR SWITCH (PASSENGER SIDE) (B108)**: Contains one switch (OPEN/CLOSED) connected to terminal 2 (R/B).
- REAR DOOR SWITCH LH (B111)**: Contains one switch (OPEN/CLOSED) connected to terminal 2 (R/B).
- BACK DOOR SWITCH LH (D85)**: Contains one switch (OPEN/CLOSED) connected to terminal 2 (R/B).
- REAR DOOR SWITCH RH (B24)**: Contains one switch (OPEN/CLOSED) connected to terminal 2 (R/B).
- BACK DOOR SWITCH RH (D107)**: Contains one switch (OPEN/CLOSED) connected to terminal 1 (R/B).

The wiring includes various terminals (e.g., 29, 28, 54M, 28M, 9, 6, 3, 2, 1) and wire colors (R/Y, R/B, B). Ground connections are indicated by ground symbols.

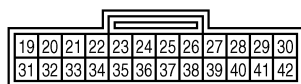


Refer to last page (Foldout page).
(M20), (B19)

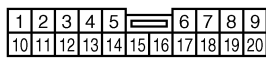
Wiring Diagram — D/LOCK —/RHD Models With Theft Warning System (Cont'd)

The diagram illustrates the electrical wiring for the EL-D/LOCK-11 system. It shows the following components and their interconnections:

- KEY CYLINDER SW (UNLOCK) (30)** and **KEY CYLINDER SW (LOCK) (41)** are connected to the **SMART ENTRANCE CONTROL UNIT (M127)**.
- The **SMART ENTRANCE CONTROL UNIT (M127)** is connected to the **FRONT DOOR KEY CYLINDER SWITCH (DRIVER SIDE) (D6)** and the **FRONT DOOR KEY CYLINDER SWITCH (PASSENGER SIDE) (D26)**.
- The **FRONT DOOR KEY CYLINDER SWITCH (DRIVER SIDE) (D6)** is connected to the **FRONT DOOR KEY CYLINDER SWITCH (PASSENGER SIDE) (D26)**.
- The **FRONT DOOR KEY CYLINDER SWITCH (PASSENGER SIDE) (D26)** is connected to the **BACK DOOR KEY CYLINDER SWITCH (D88)**.
- The **BACK DOOR KEY CYLINDER SWITCH (D88)** is connected to the **BACK DOOR KEY CYLINDER SWITCH (D88)**.
- The **BACK DOOR KEY CYLINDER SWITCH (D88)** is connected to the **BACK DOOR KEY CYLINDER SWITCH (D88)**.



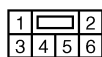
M12
B



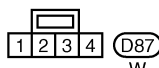
B102
W



D6
BR

D88
BR

D81
W

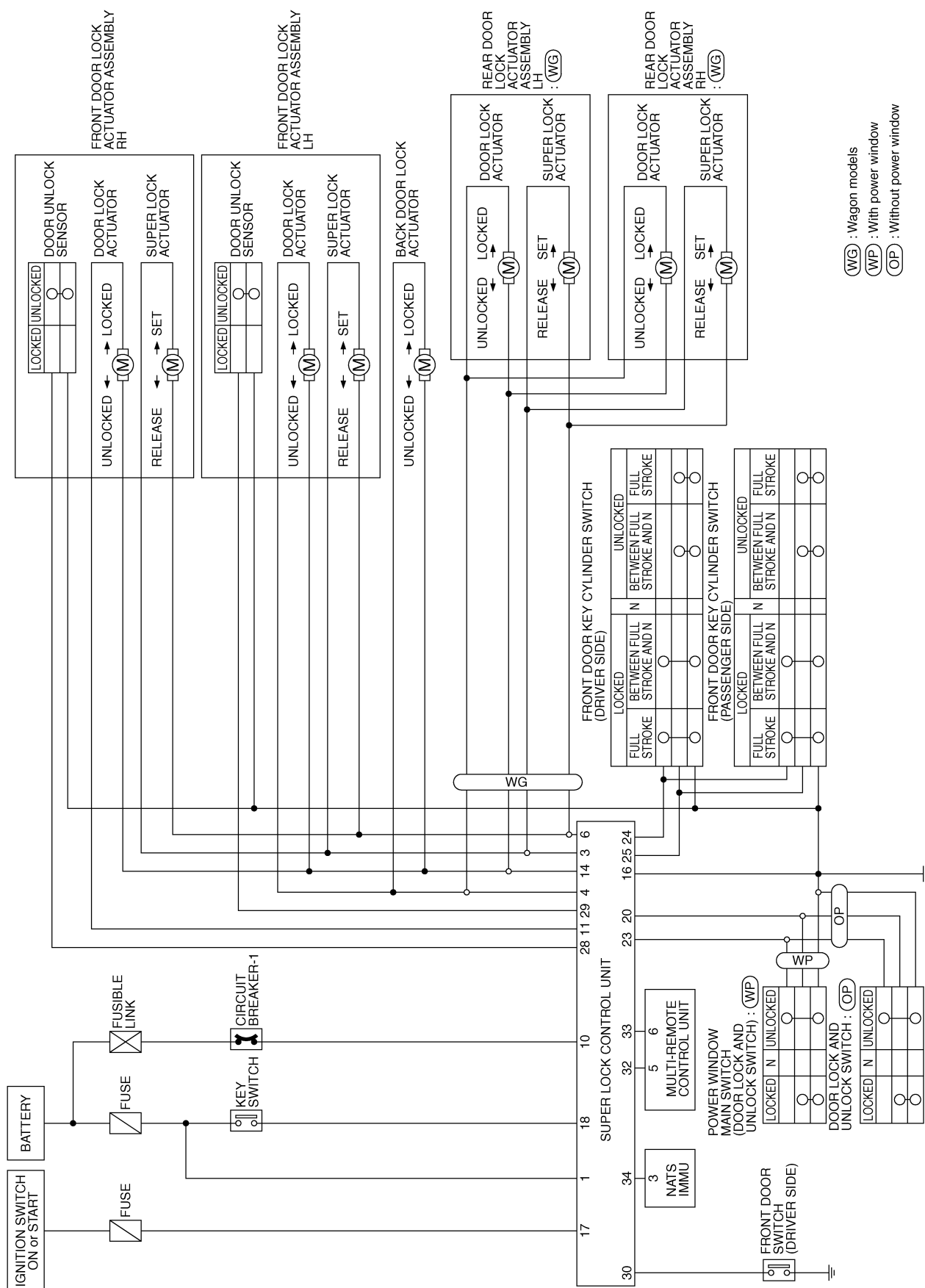

$$w$$

(M22), (D1)

(M175), (D29)

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Schematic — Super Lock —

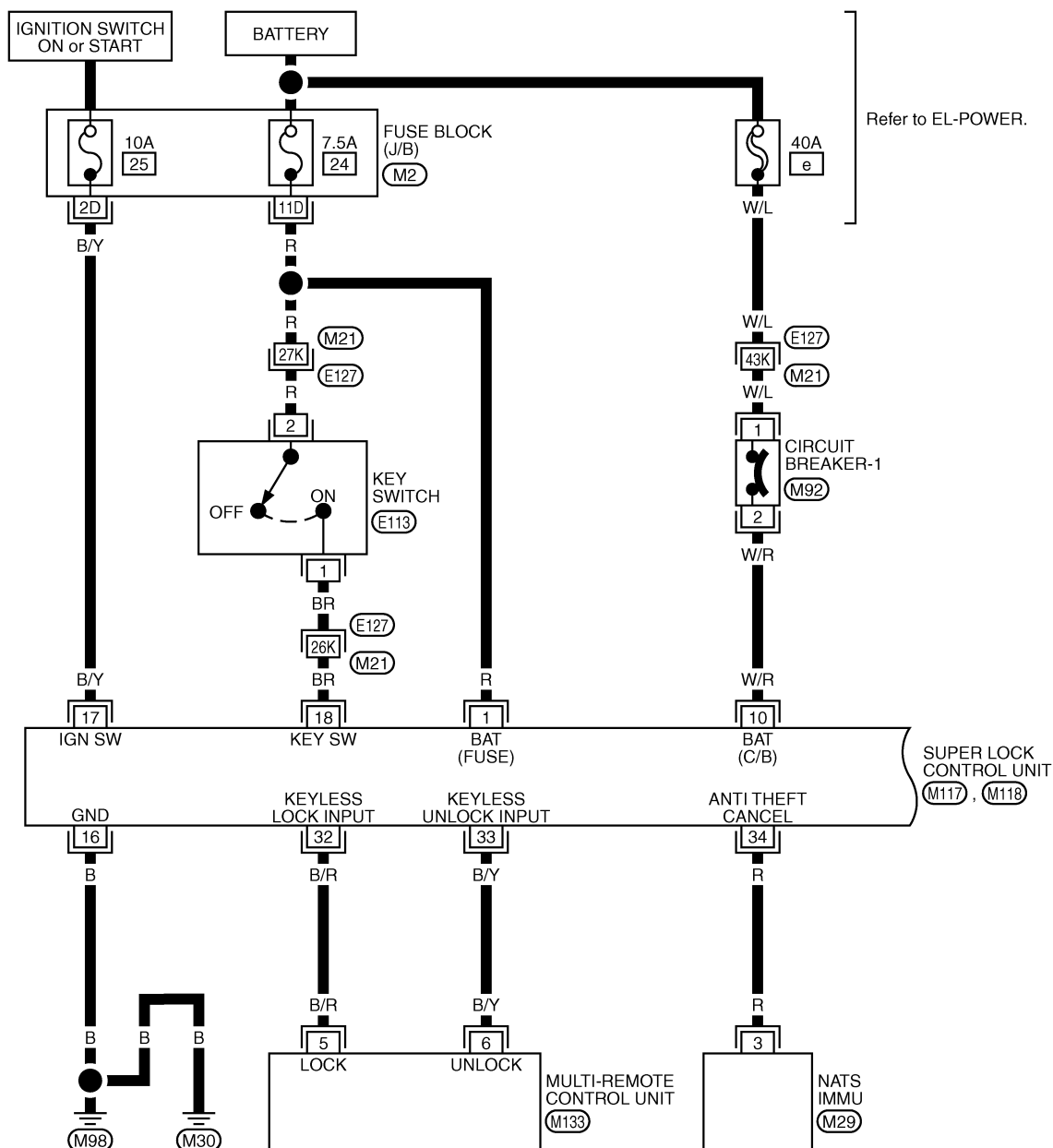


TEL109N

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — S/LOCK —

EL-S/LOCK-01

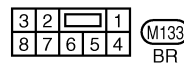
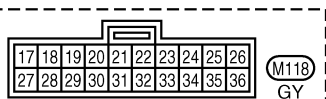
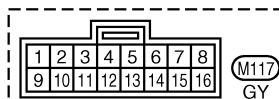
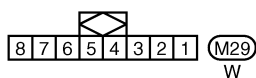


Refer to EL-POWER.

SUPER LOCK CONTROL UNIT (M117, M118)

MULTI-REMOTE CONTROL UNIT (M133)

NATS IMMU (M29)



Refer to last page (Foldout page).

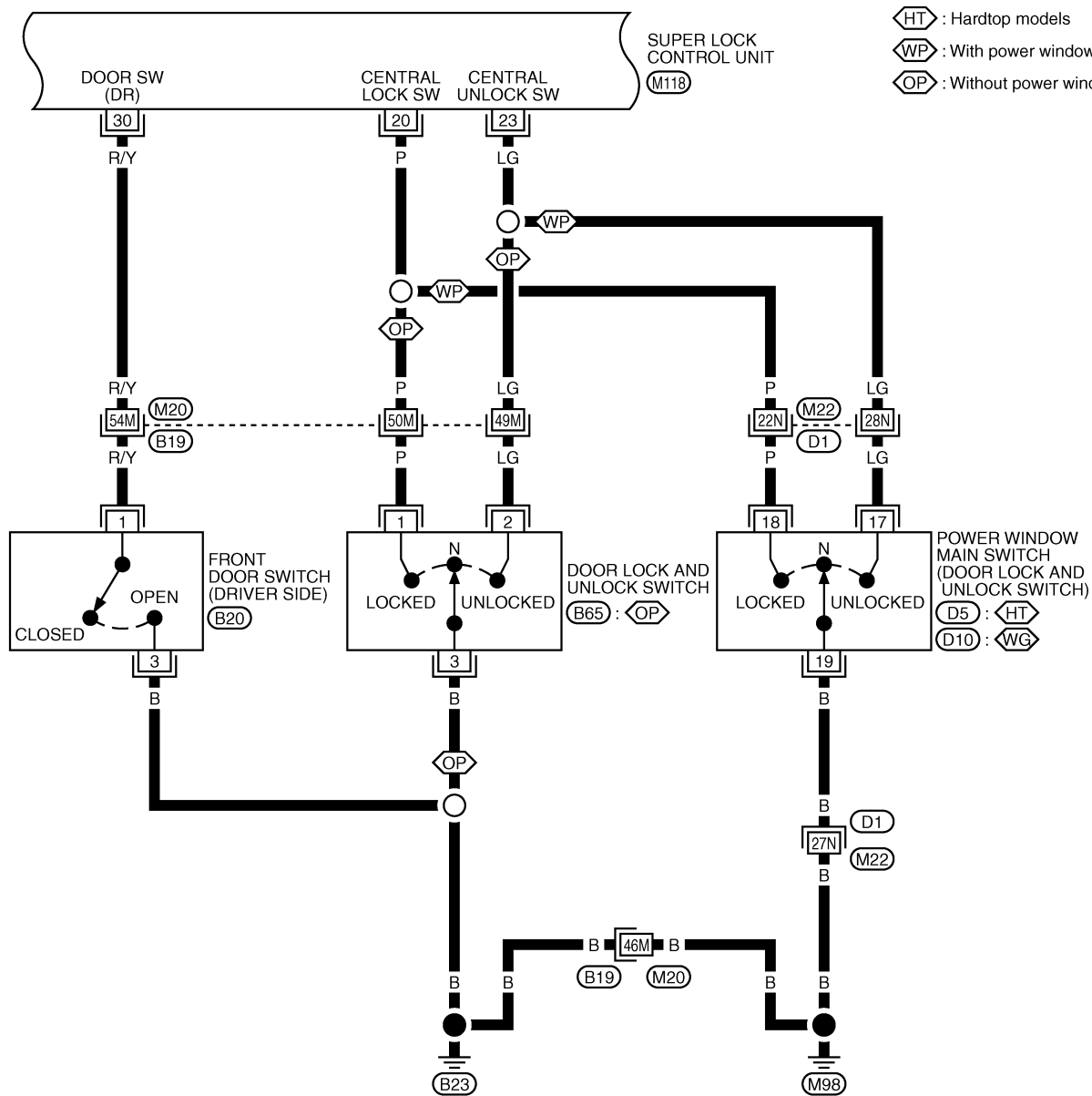
(M21, E127)
(M2)

POWER DOOR LOCK/WAGON AND HARTOP MODELS

Wiring Diagram — S/LOCK — (Cont'd)

EL-S/LOCK-02

- ⬡WG : Wagon models
- ⬡HT : Hardtop models
- ⬡WP : With power window
- ⬡OP : Without power window



17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36

(M118)
GY



1	2
3	

(B20)
B

5	4
3	2
1	

(B65)
W

1	2	19	18	17	7
8	9	3	12	4	6
5	13	16			

(D5)
W

19	18	17
----	----	----

(D10)
W

Refer to last page (Foldout page).

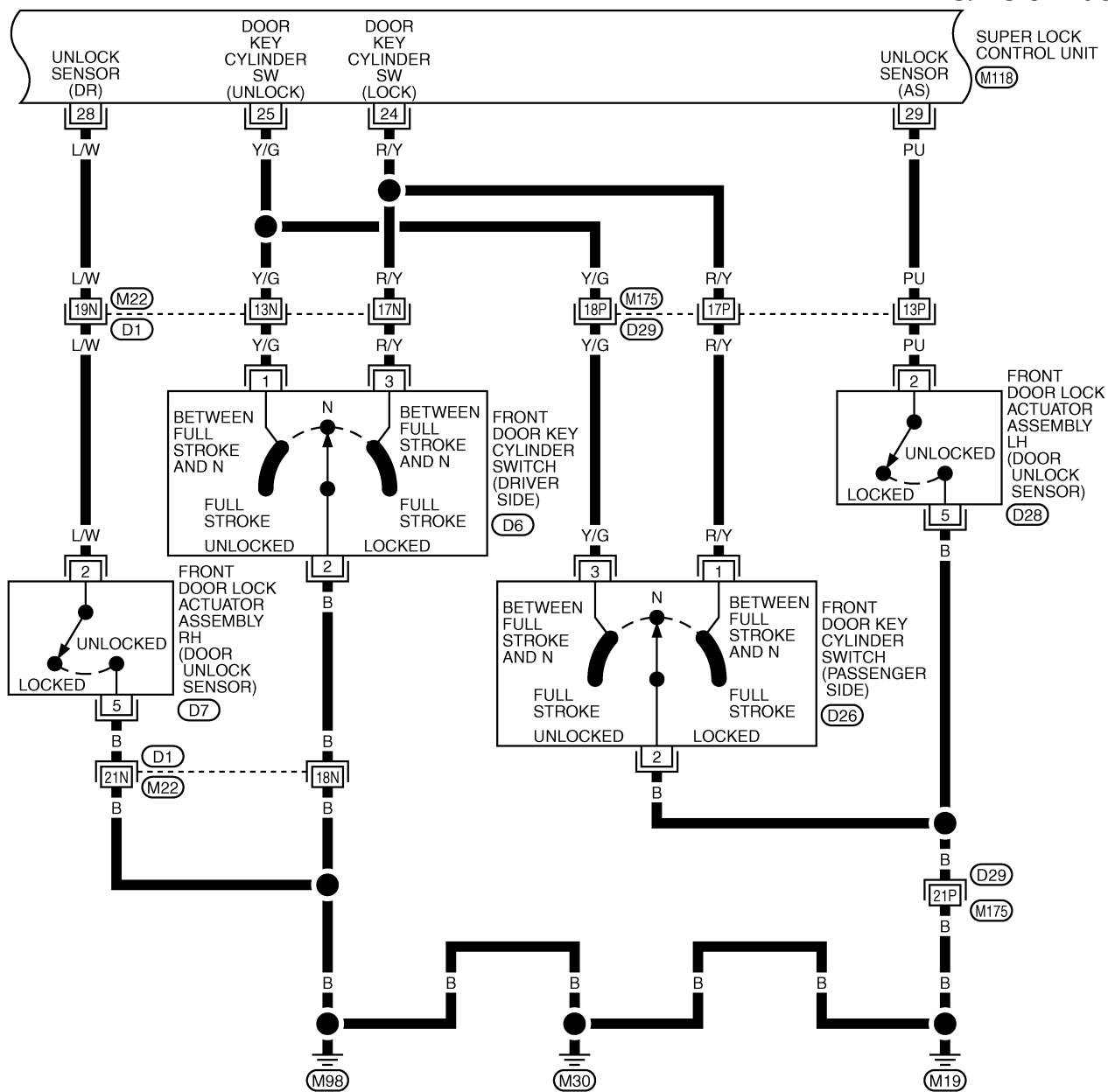
(M20) , (B19)

(M22) , (D1)

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — S/LOCK — (Cont'd)

EL-S/LOCK-03

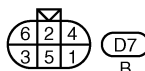


17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36

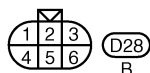
[M118] GY



[D6], [D26] BR



[D7] B



[D28] B

Refer to last page (Foldout page).

[M22], [D1]

[M175], [D29]

TEL112N

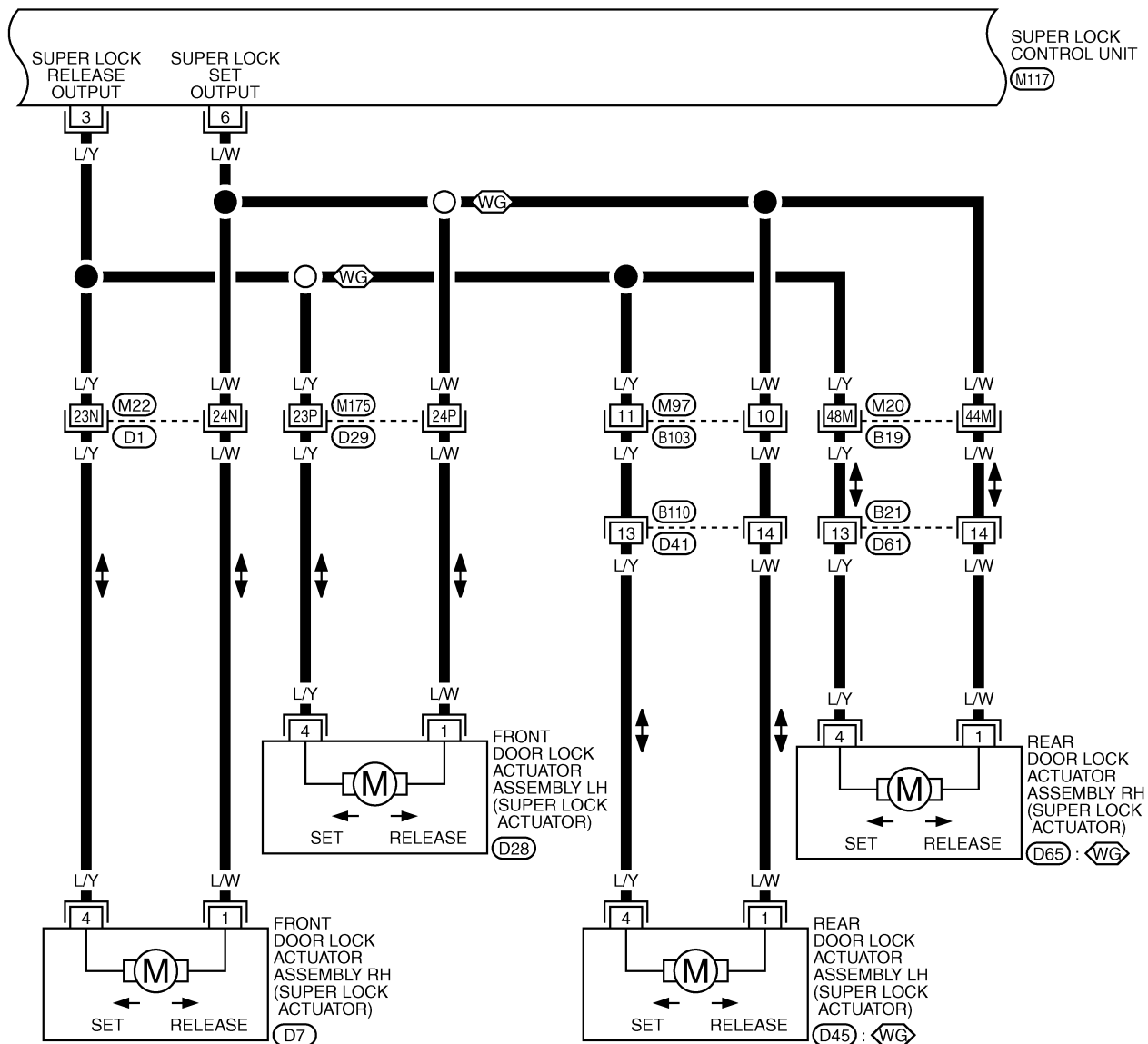
EL-4261

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — S/LOCK — (Cont'd)

EL-S/LOCK-04

WG : Wagon models



1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

(M117)
GY



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

(B21), (B110)
W W

1	2	3	4	5	6	7
8	9	10	11	12	13	14

(B103)
W

6	2	4
3	5	1

(D7), (D65)
B B

1	2	3
4	5	6

(D28), (D45)
B B

Refer to last page (Foldout page).

(M20), (B19)

(M22), (D1)

(M175), (D29)

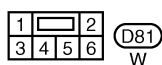
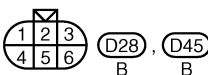
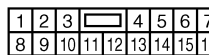
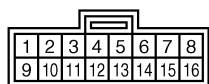
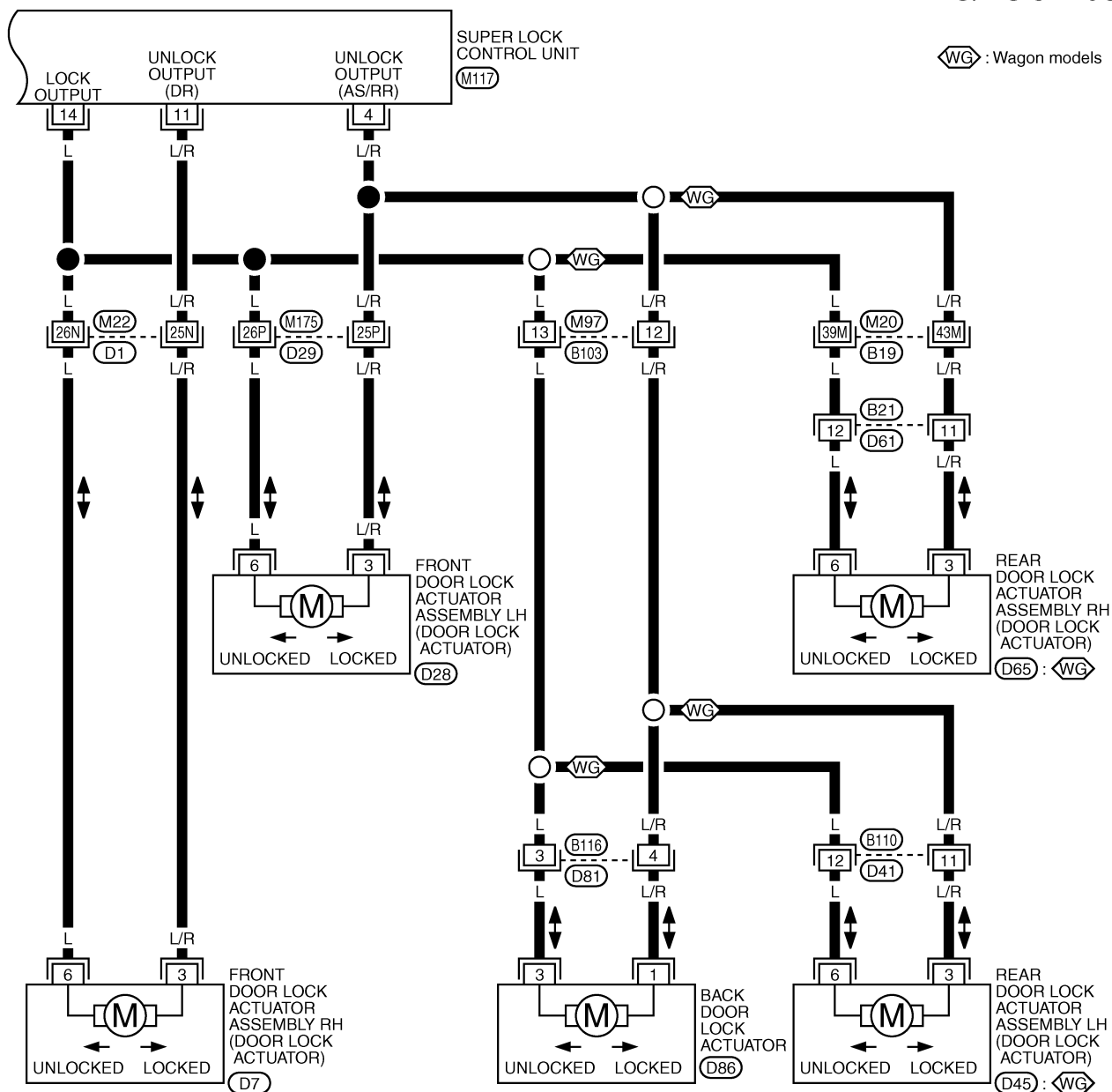
TEL113N

POWER DOOR LOCK/WAGON AND HARDTOP MODELS

Wiring Diagram — S/LOCK — (Cont'd)

EL-S/LOCK-05

WG : Wagon models



Refer to last page (Foldout page).

M20, B19

M22, D1

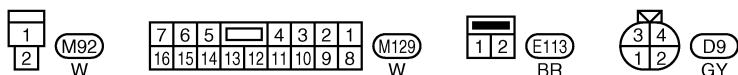
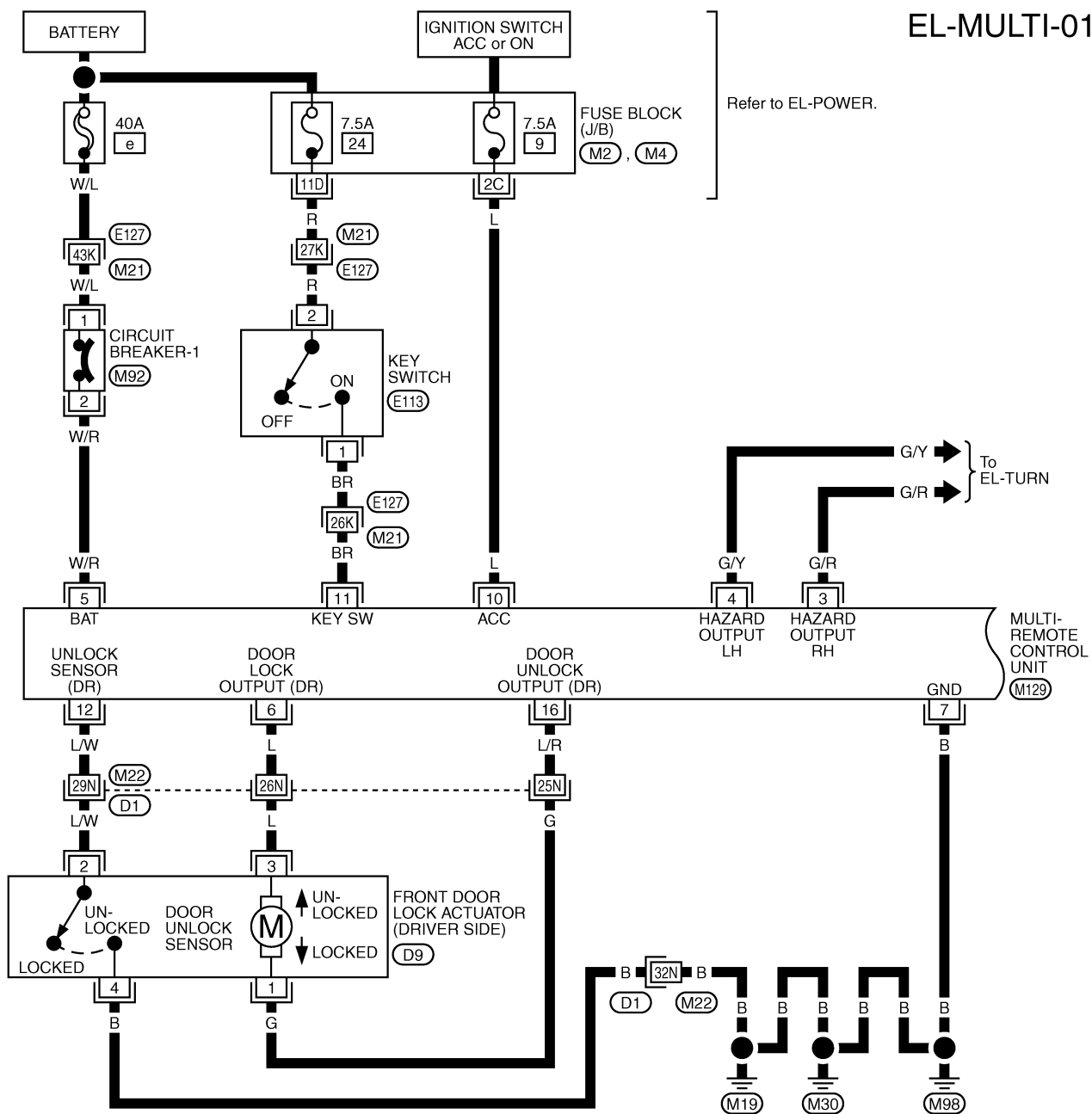
M175, D29

TEL114N

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models Except for Europe, The Middle East and With Theft Warning System

EL-MULTI-01



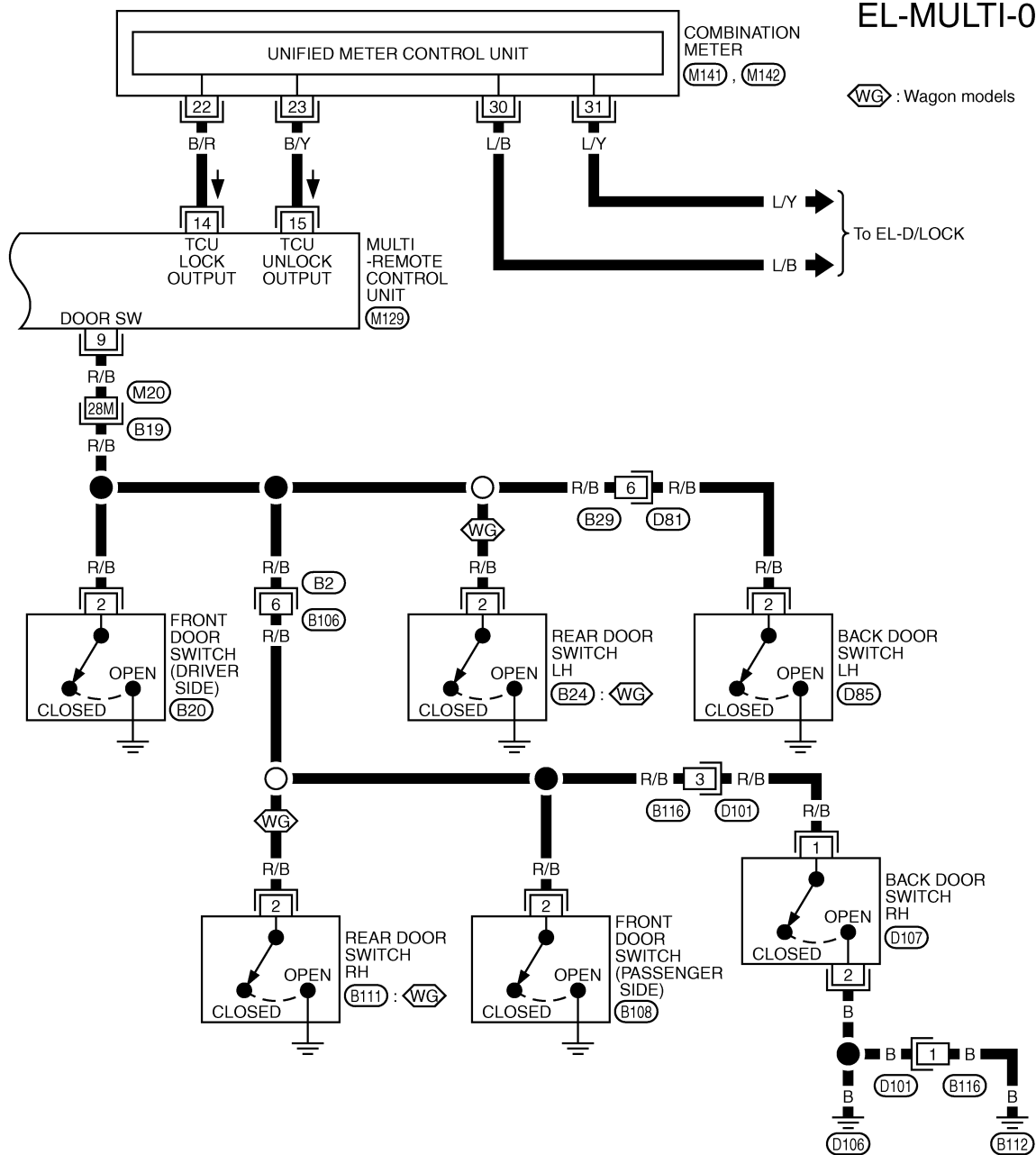
Refer to last page (Foldout page).

- M21, E127
- M22, D1
- M2
- M4

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models Except for Europe, The Middle East and With Theft Warning System (Cont'd)

EL-MULTI-02



7	6	5	4	3	
16	15	14	12	11	9

(M129)
W

1	2	3	4	5	6			7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

(M141)
W

25	26	27	28	29			30	31	32	33
34	35	36	37	38	39	40	41	42	43	44

(M142)
BR

1	2	3
4	5	6

(B2)
W

1	2
3	

(B20, B24, B108, B111, D85)
B

1	2
3	4
5	6

(D81, D101)
W

1
2

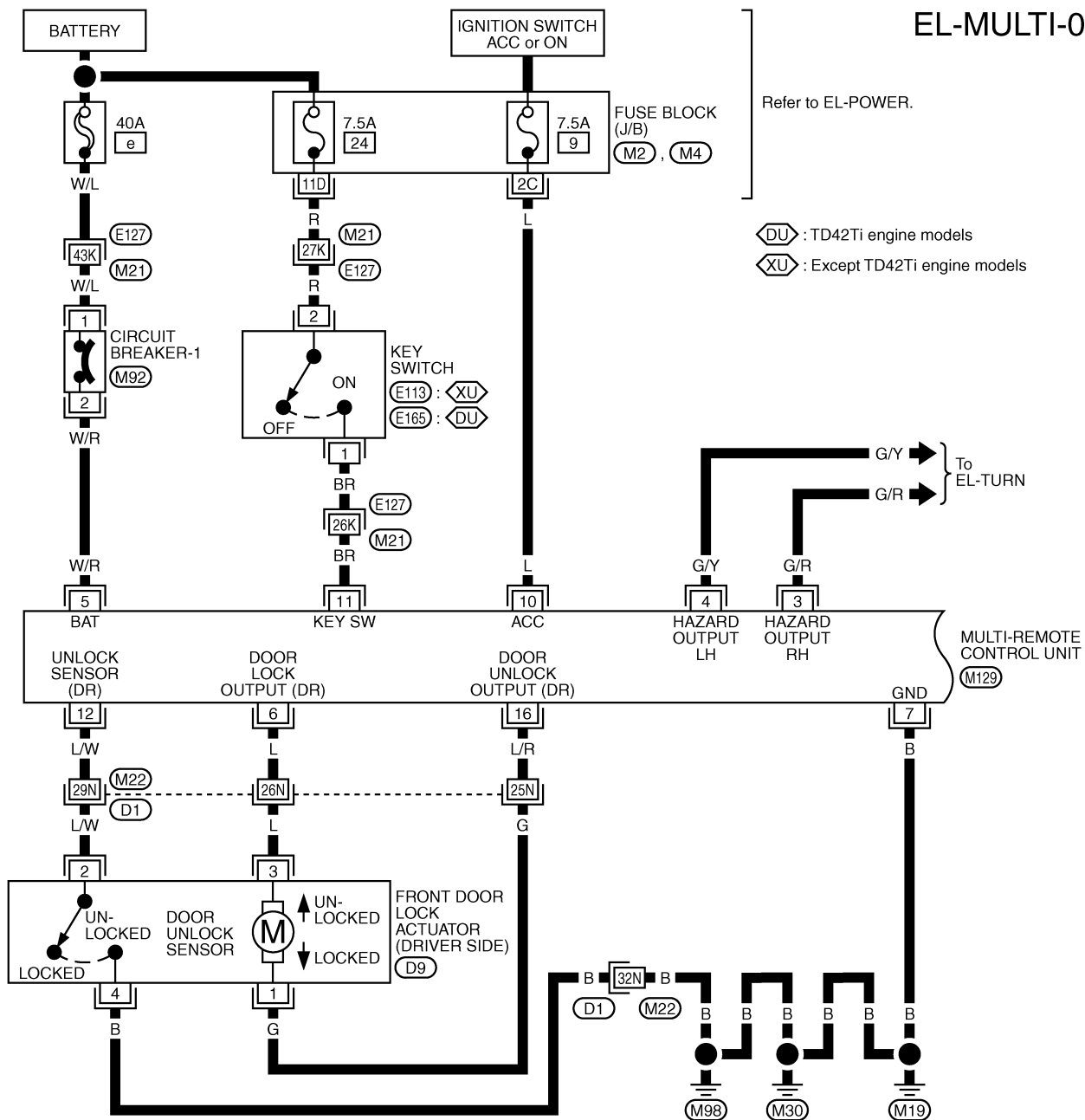
(D107)
W

Refer to last page (Foldout page).
(M20, B19)

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/RHD Models Except for Europe, South Africa and With Theft Warning System

EL-MULTI-03

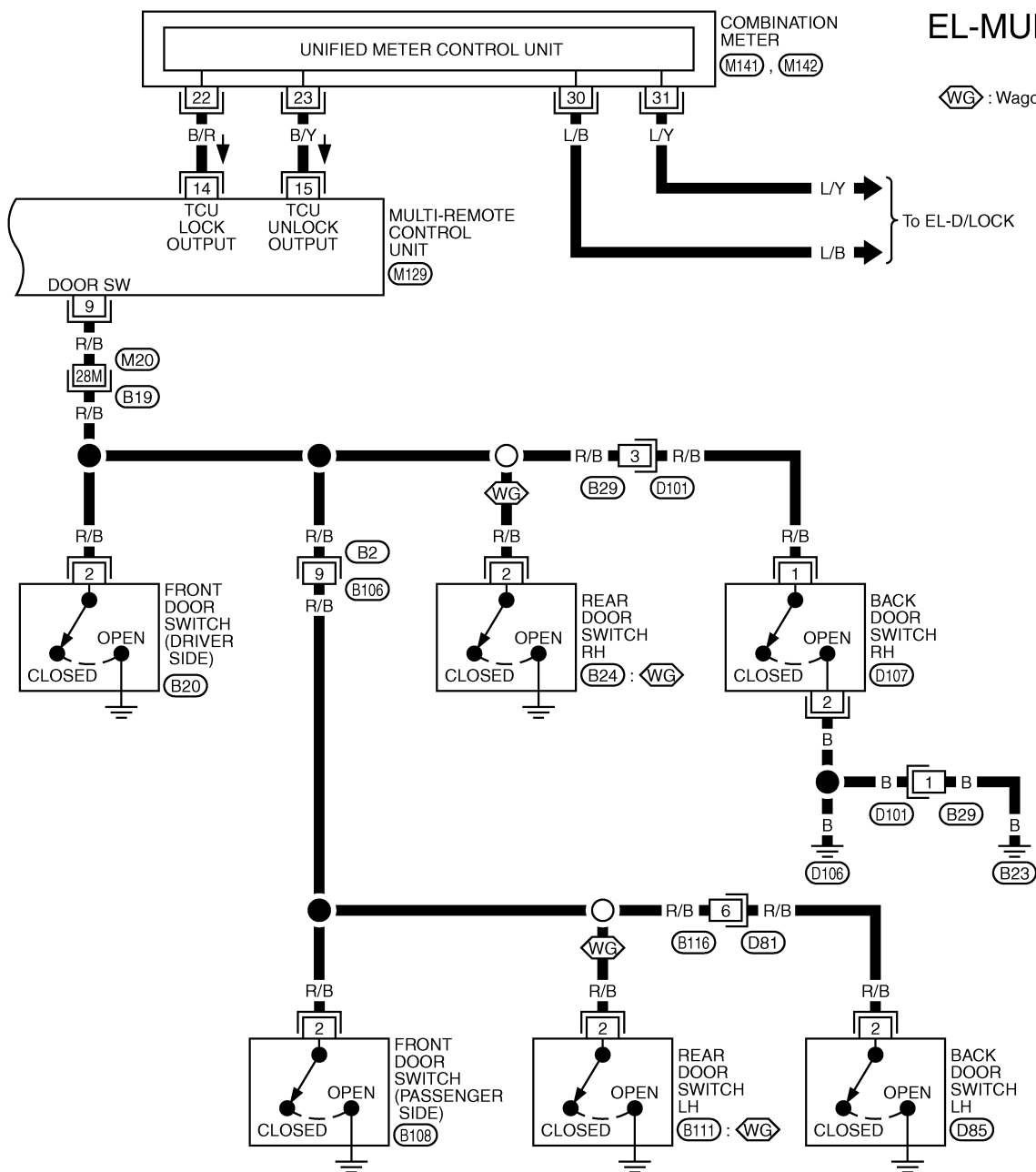


MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/RHD Models Except for Europe, South Africa and With Theft Warning System (Cont'd)

EL-MULTI-04

WG : Wagon models



7	6	5	4	3	2	1
16	15	14	13	12	11	10

(M129)
W

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

(M141) W (M142) BR

1	2	3	4	5
6	7	8	9	10

(B2) W

1	2	3
---	---	---

(B20), (B24), (B108), (B111), (D85) B

1	2	3	4	5	6
---	---	---	---	---	---

(D81), (D101) W

1	2
---	---

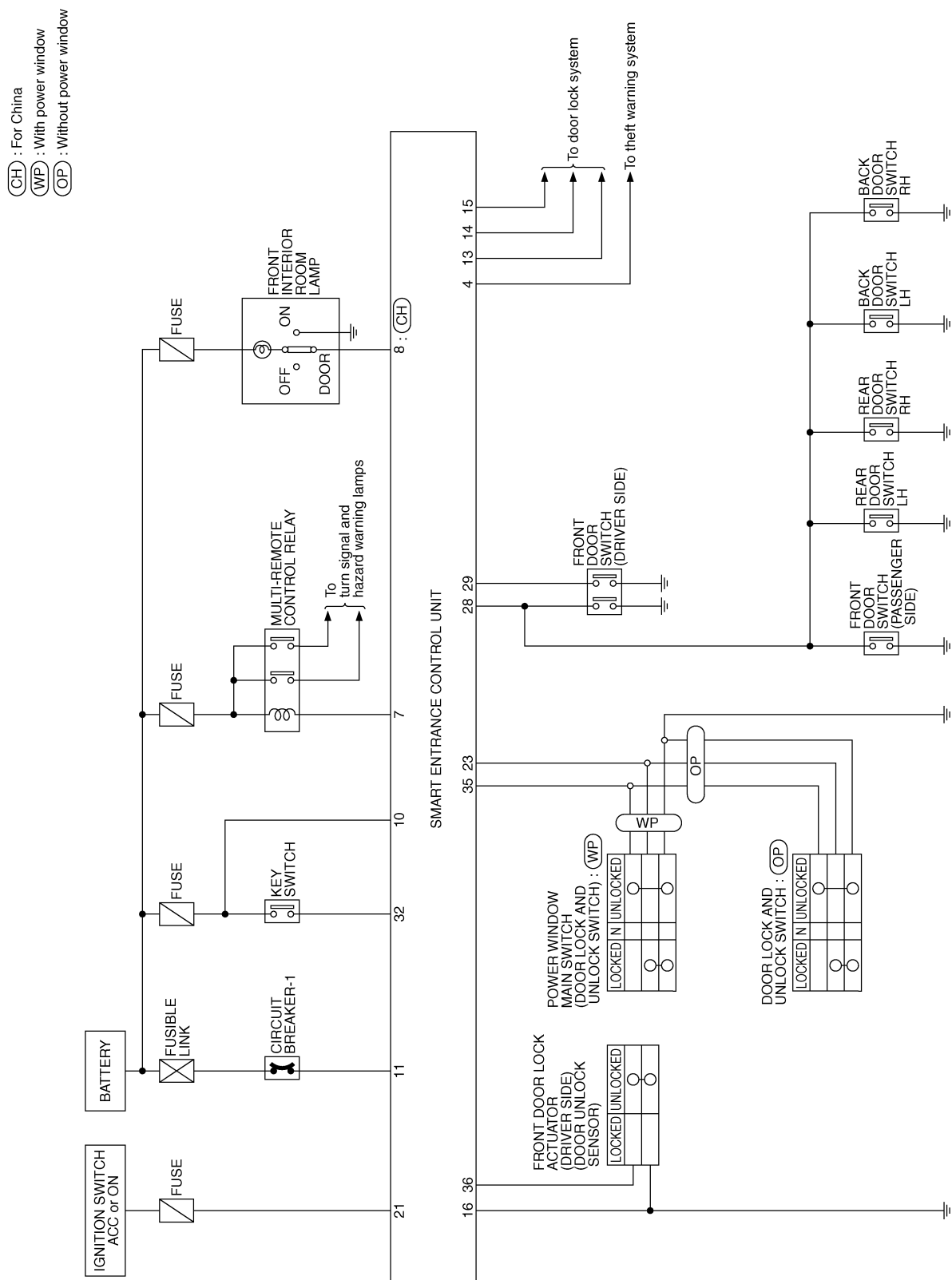
(D107) W

Refer to last page (Foldout page).

(M20), (B19)

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

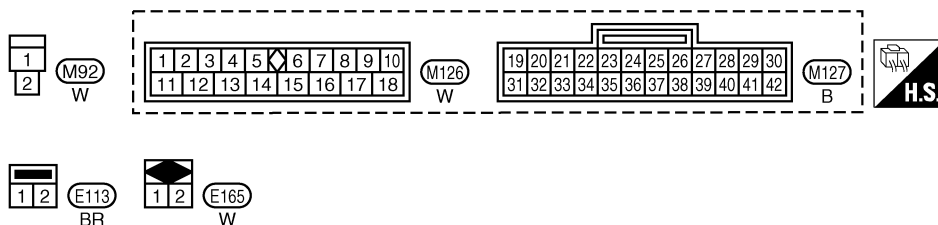
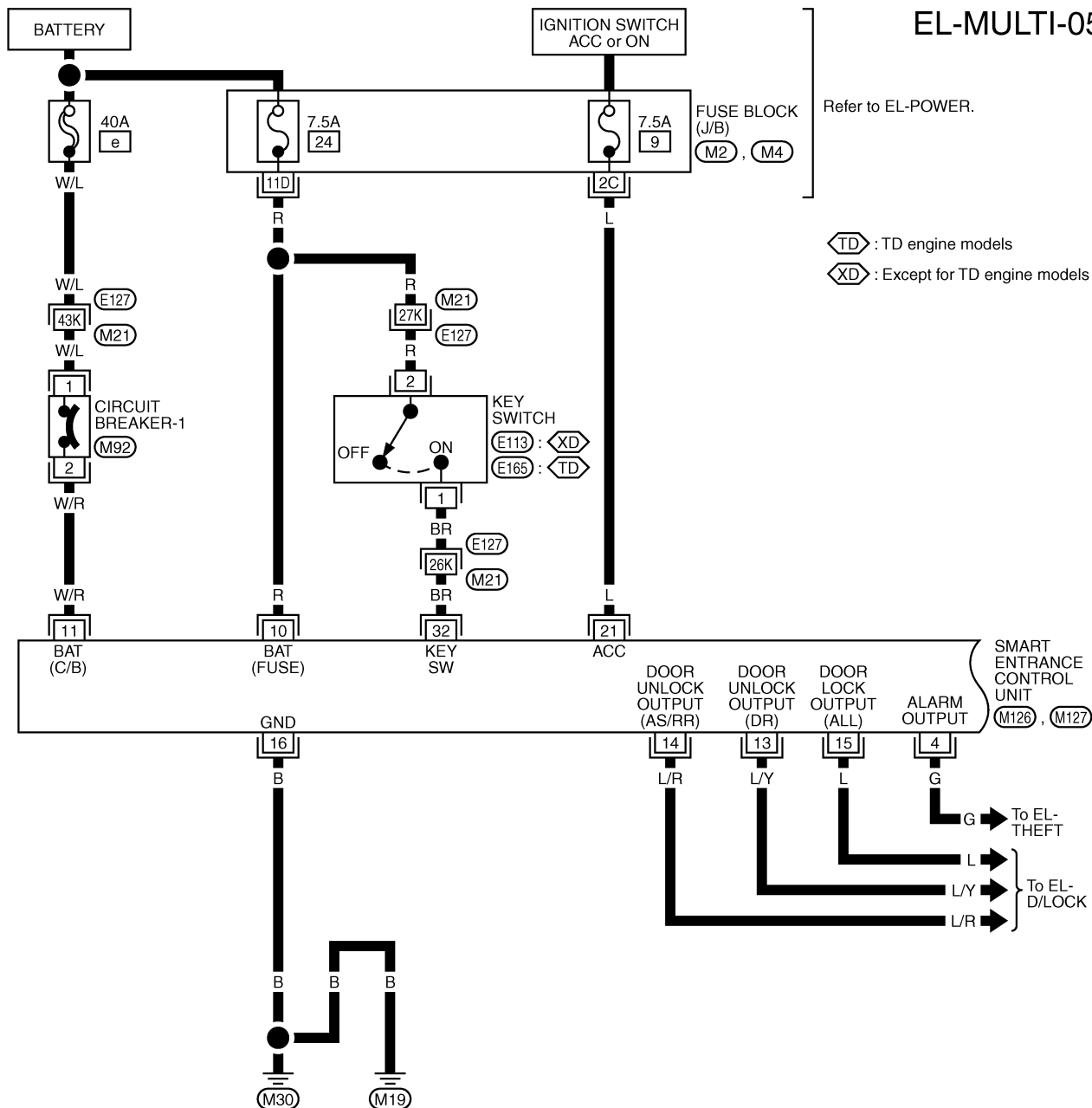
Schematic/With Theft Warning System Models



MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models with Theft Warning System

EL-MULTI-05



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M21, E127

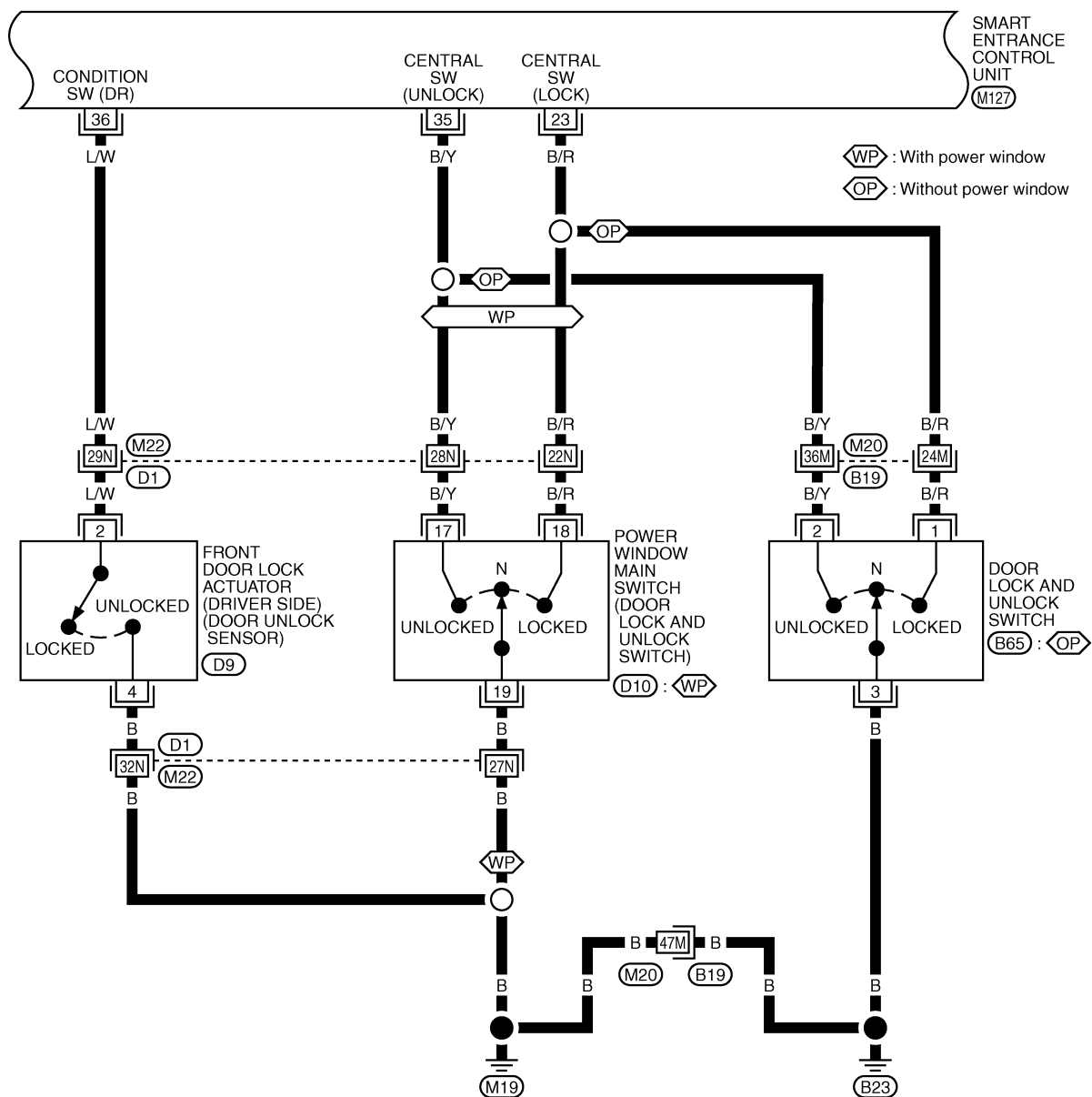
M2

M4

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models with Theft Warning System (Cont'd)

EL-MULTI-06



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

(M127)
B



5	4	
3	2	1

(B65)
W

3	4
1	2

(D9)
GY

19	18	17
----	----	----

(D10)
W

Refer to last page (Foldout page).

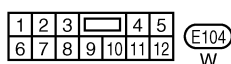
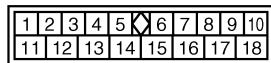
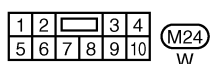
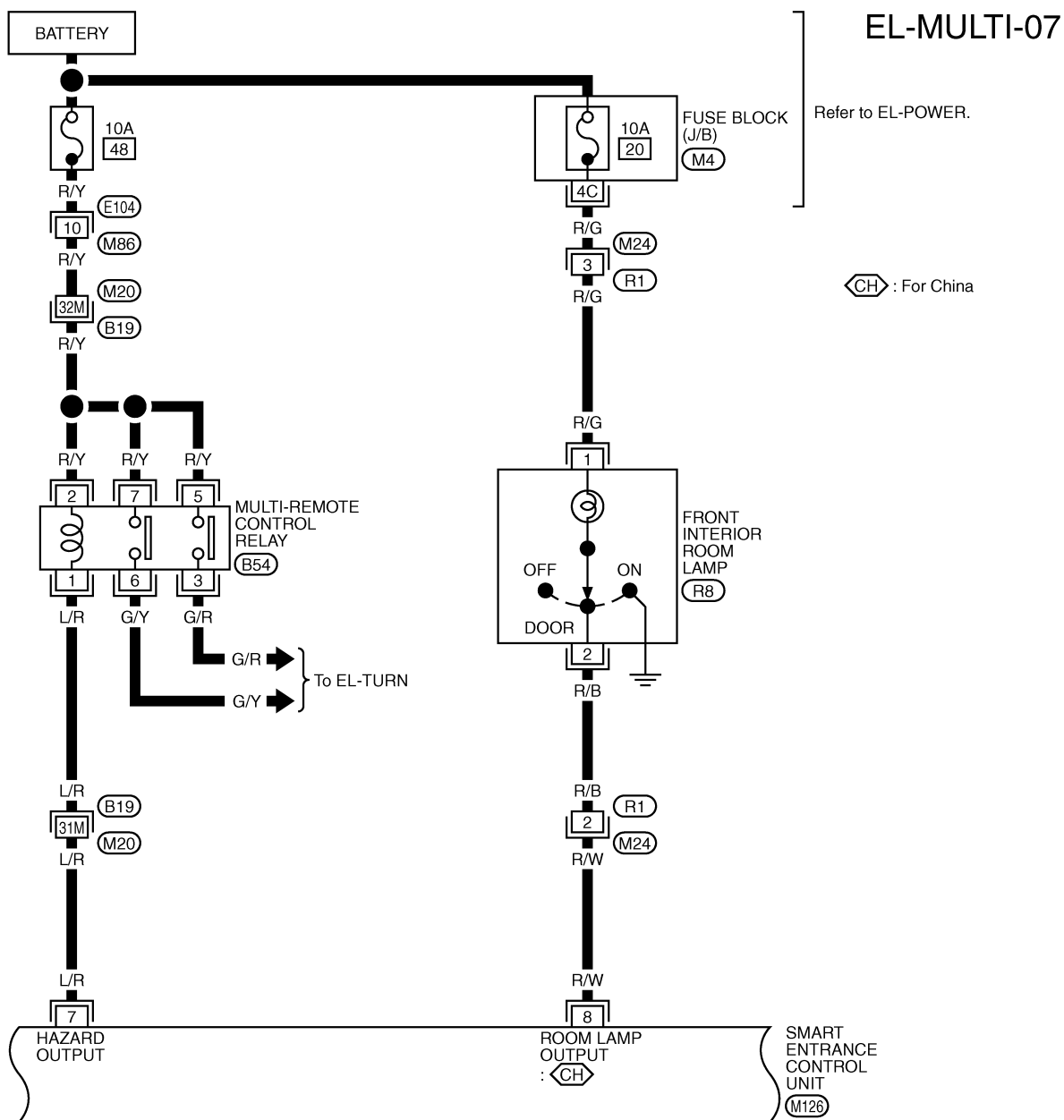
(M20) (B19)

(M22) (D1)

TEL117N

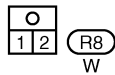
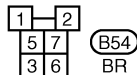
MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models with Theft Warning System (Cont'd)



Refer to last page (Foldout page).

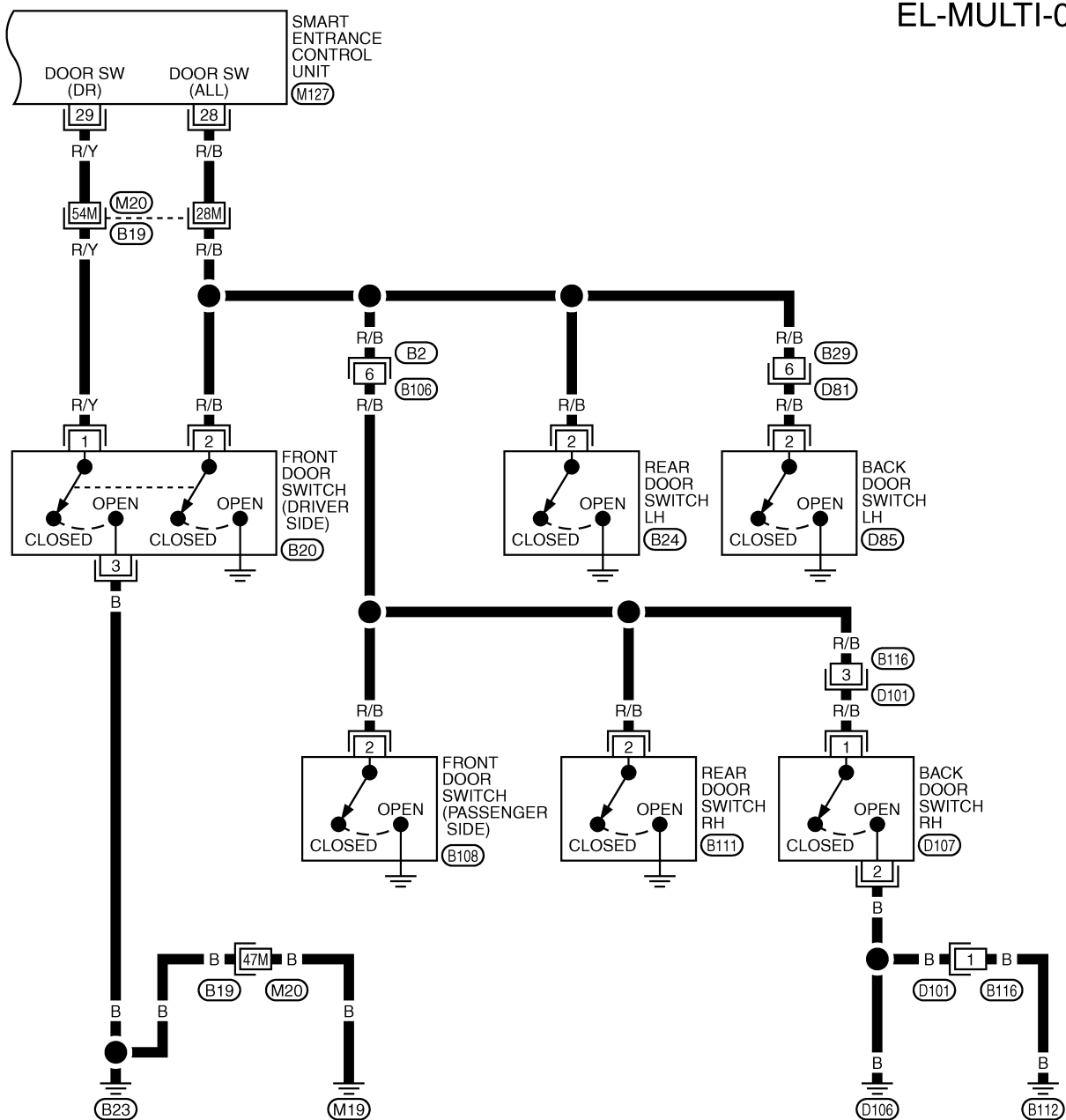
M20, B19
M4



MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models with Theft Warning System (Cont'd)

EL-MULTI-08



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42



1	2	3
4	5	6

B2
W

1	2
3	

B20, B24, B108, B111, D85
B

1	2
3	4

D81, D101
W

1
2

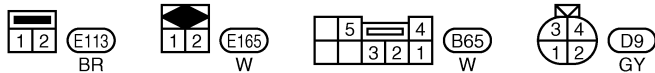
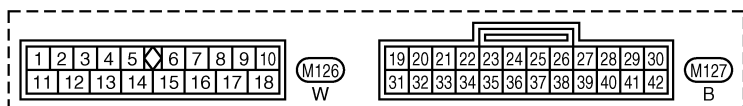
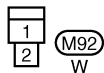
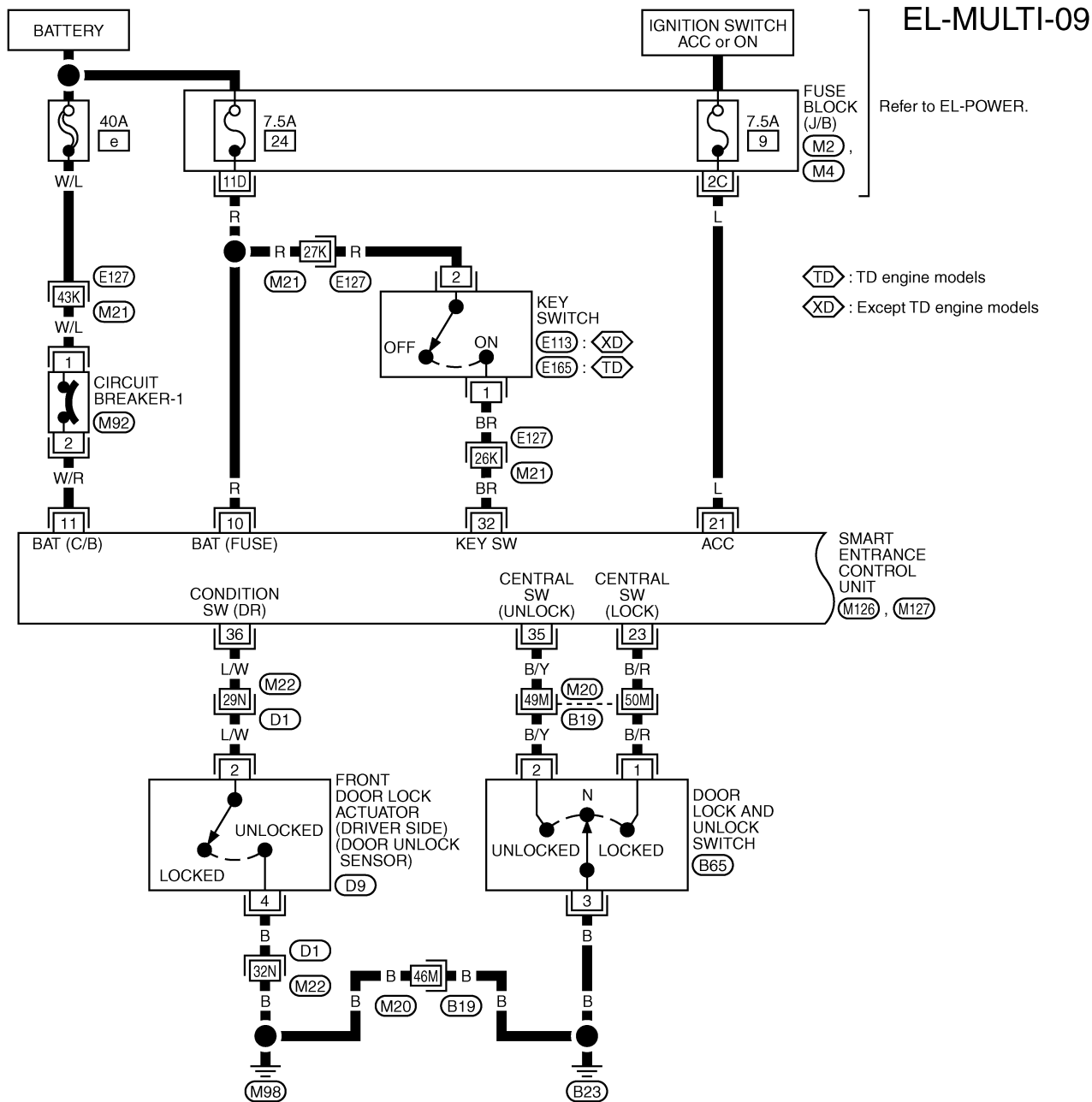
D107
W

Refer to last page (Foldout page).

M20, B19

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/RHD Models with Theft Warning System



Refer to last page (Foldout page).

M20, B19

M21, E127

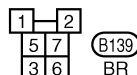
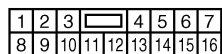
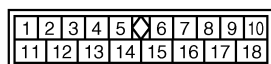
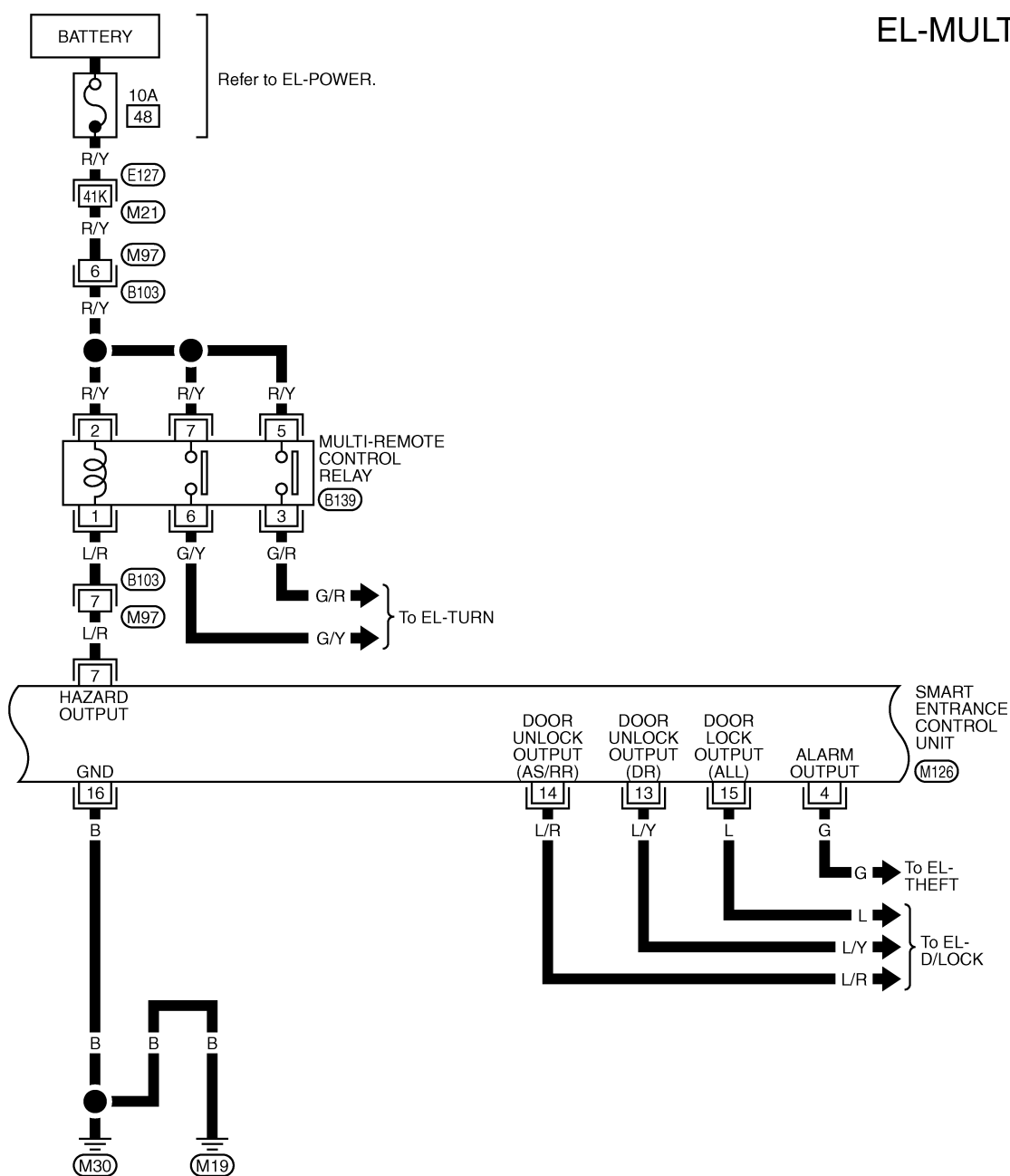
M22, D1

M2

M4

Wiring Diagram — MULTI —/RHD Models with Theft Warning System (Cont'd)

Refer to EL-POWER.

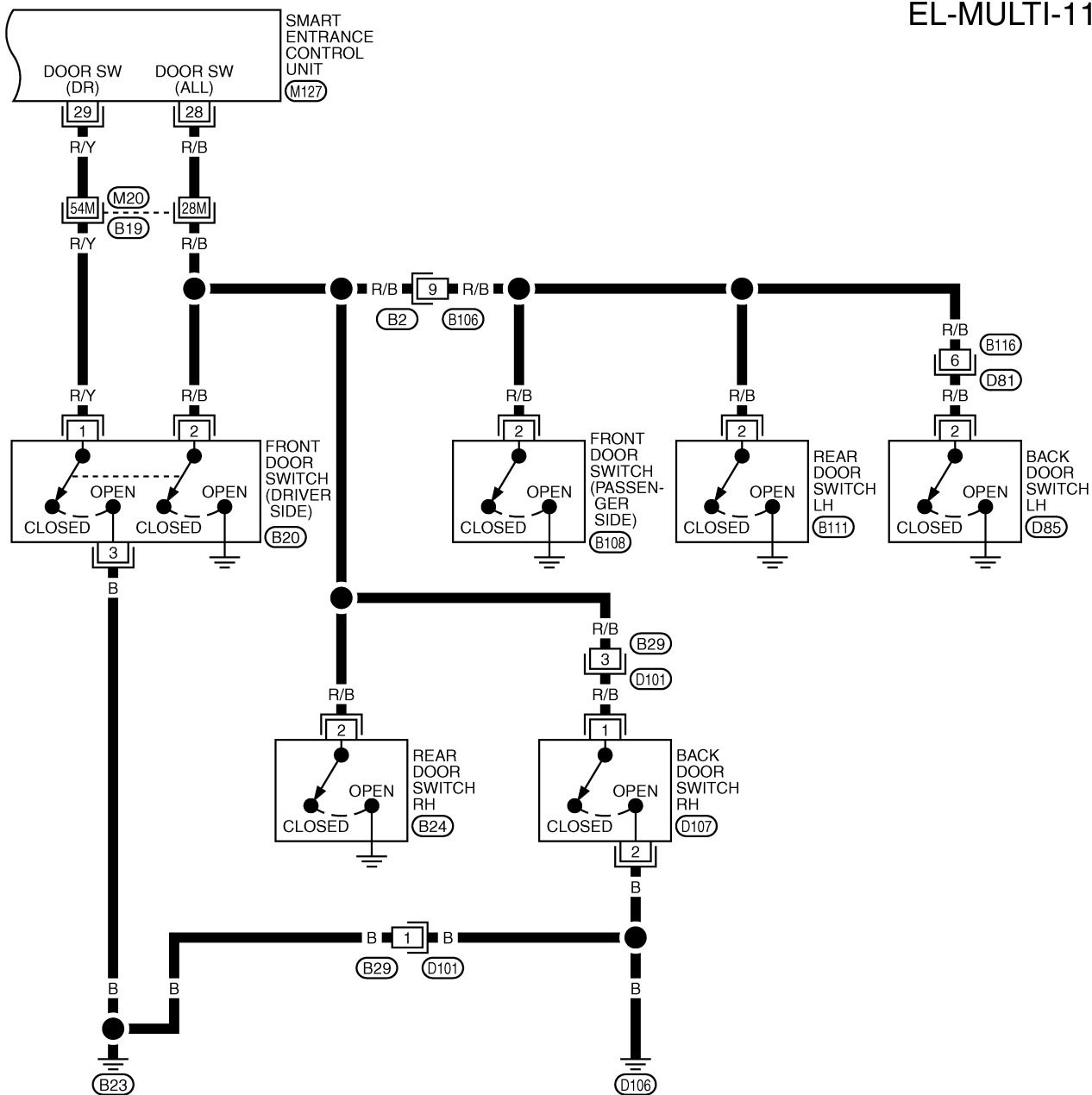


Refer to last page (Foldout page).
(M21), (E127)

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/RHD Models with Theft Warning System (Cont'd)

EL-MULTI-11



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42



1	2	3	4	5
6	7	8	9	10

B2 W

1	2
3	

B20, B24, B108, B111, D85 B

1	2
3	4

D81, D101 W W

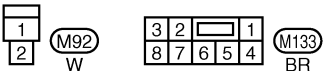
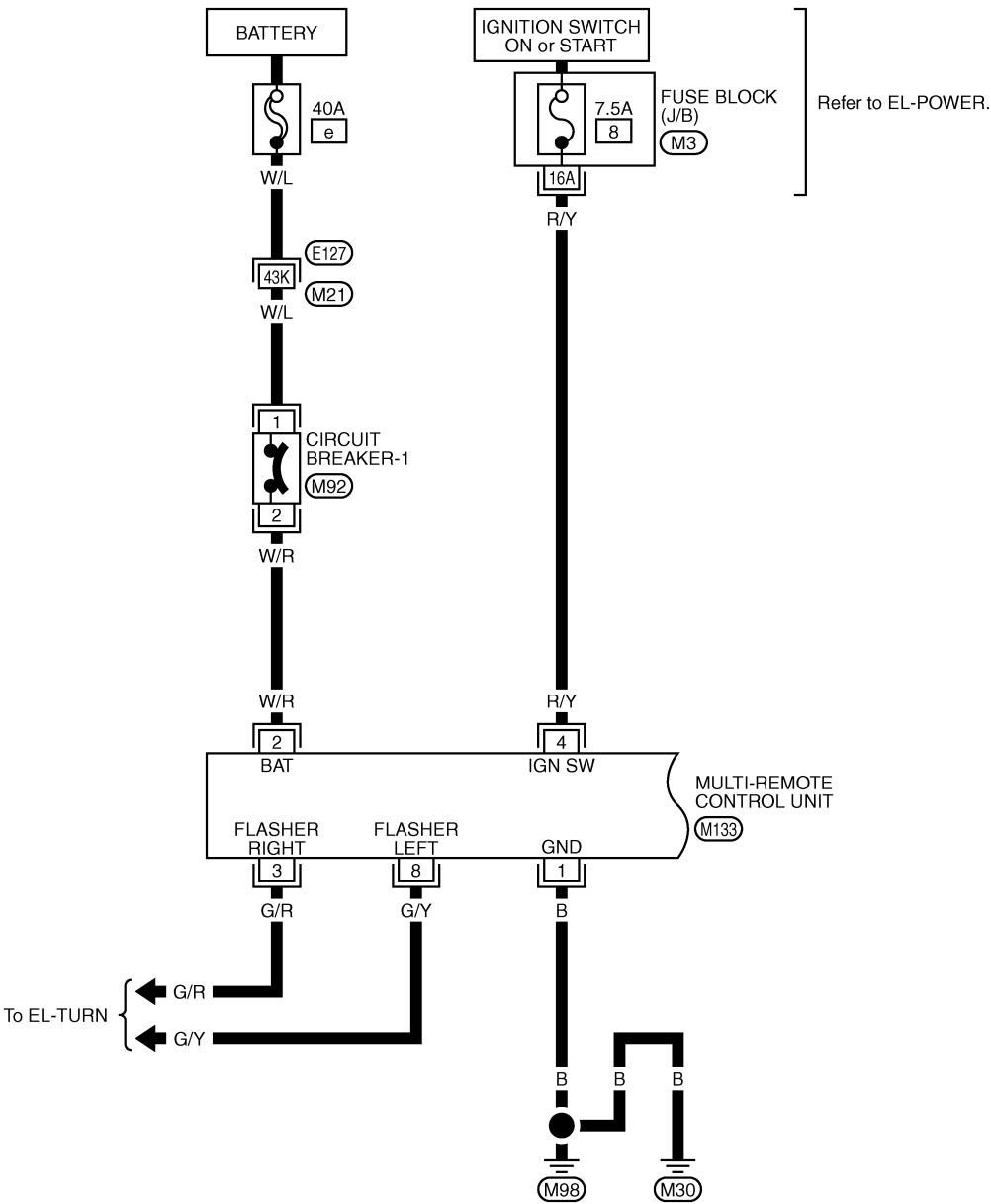
1
2

D107 W

Refer to last page (Foldout page).
(M20), (B19)

Wiring Diagram — MULTI —/LHD Models for Europe and The Middle East

EL-MULTI-12



Refer to last page (Foldout page).

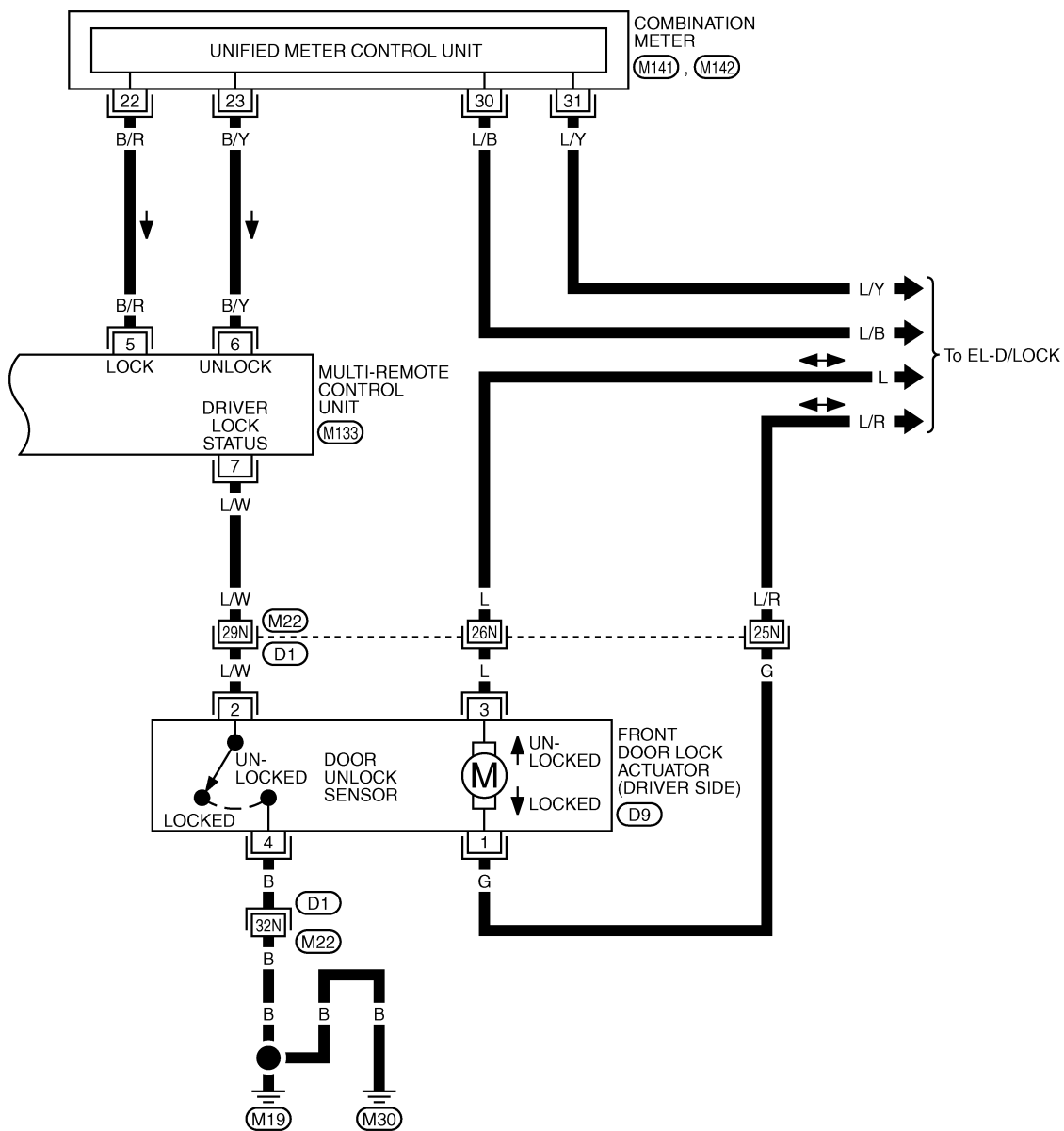
(M21), (E127)

M3

MULTI-REMOTE CONTROL SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — MULTI —/LHD Models for Europe and The Middle East (Cont'd)

EL-MULTI-13



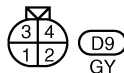
3	2	1
8	7	6

M133
BR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

M141
W

M142
BR



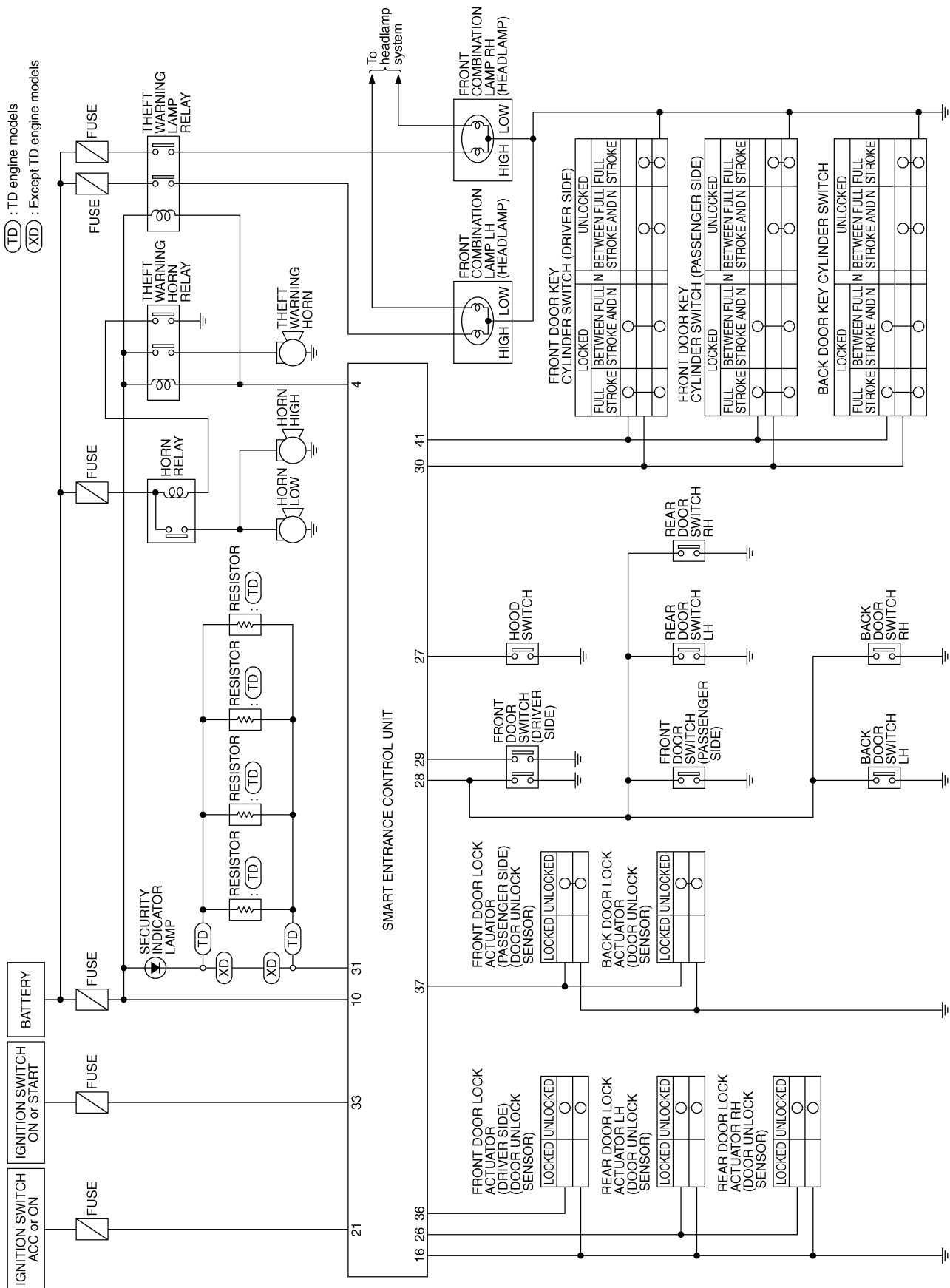
Refer to last page (Foldout page).

M22, D1

TEL121N

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

Schematic

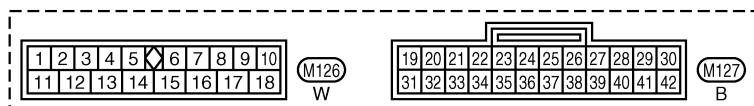
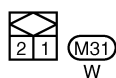
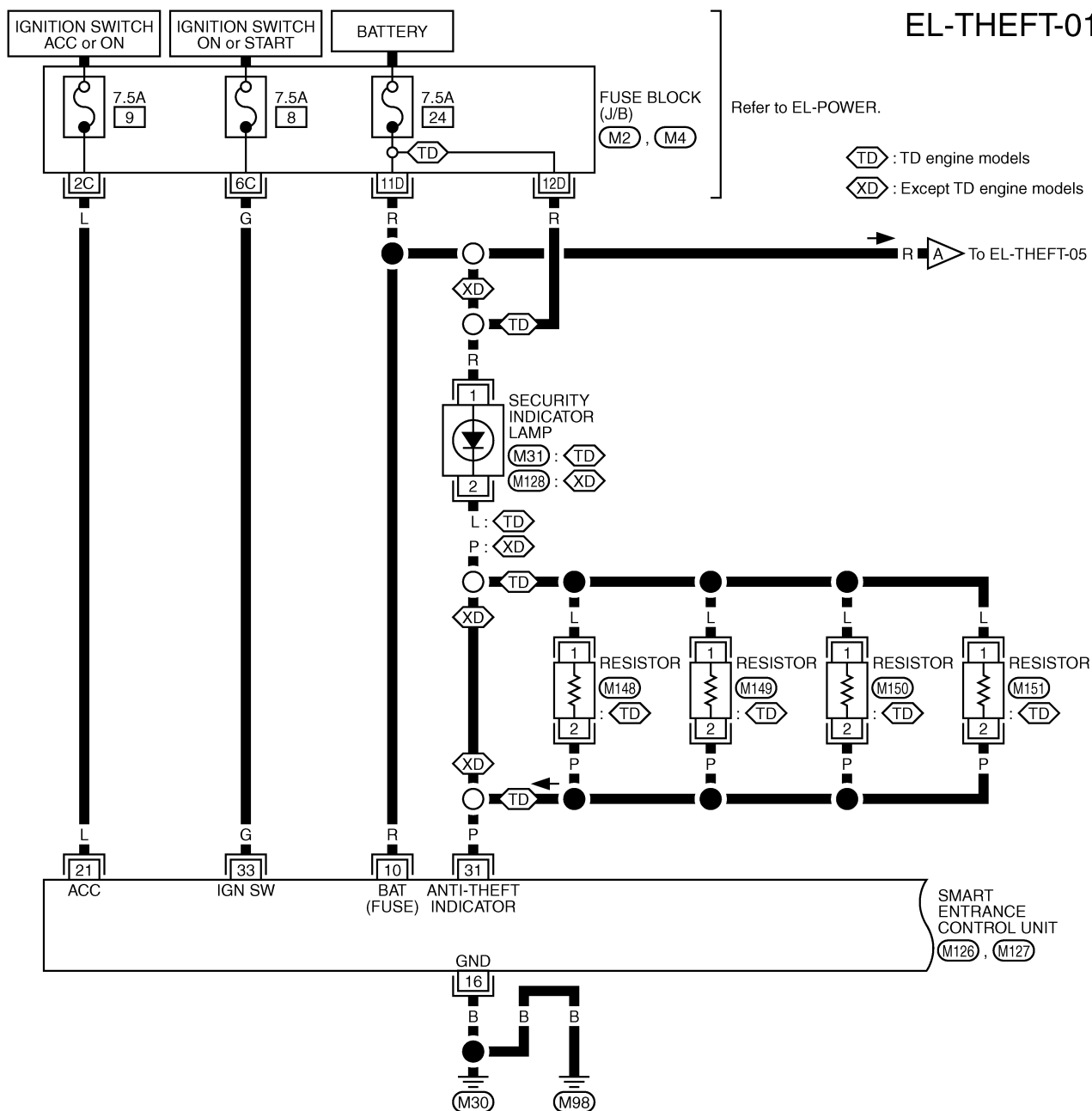


TEL122N

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — THEFT —/LHD Models

EL-THEFT-01



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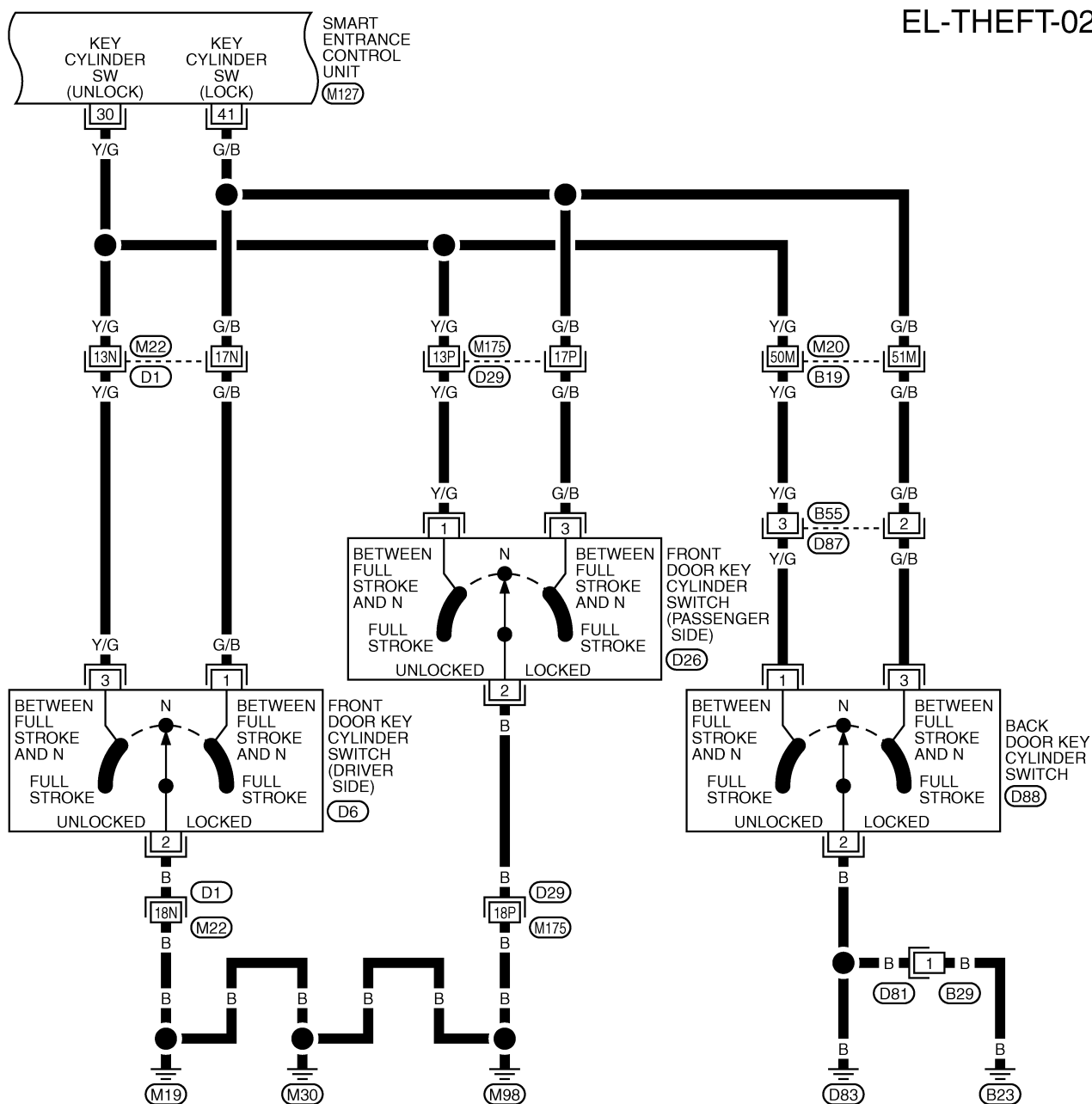


TEL123N

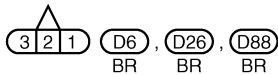
THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-02



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42



D6, D26, D88
BR BR BR

1	2	3	4	5	6
---	---	---	---	---	---

D81
W

1	2	3	4
---	---	---	---

D87
W

Refer to last page (Foldout page).

M20, B19

M22, D1

M175, D29

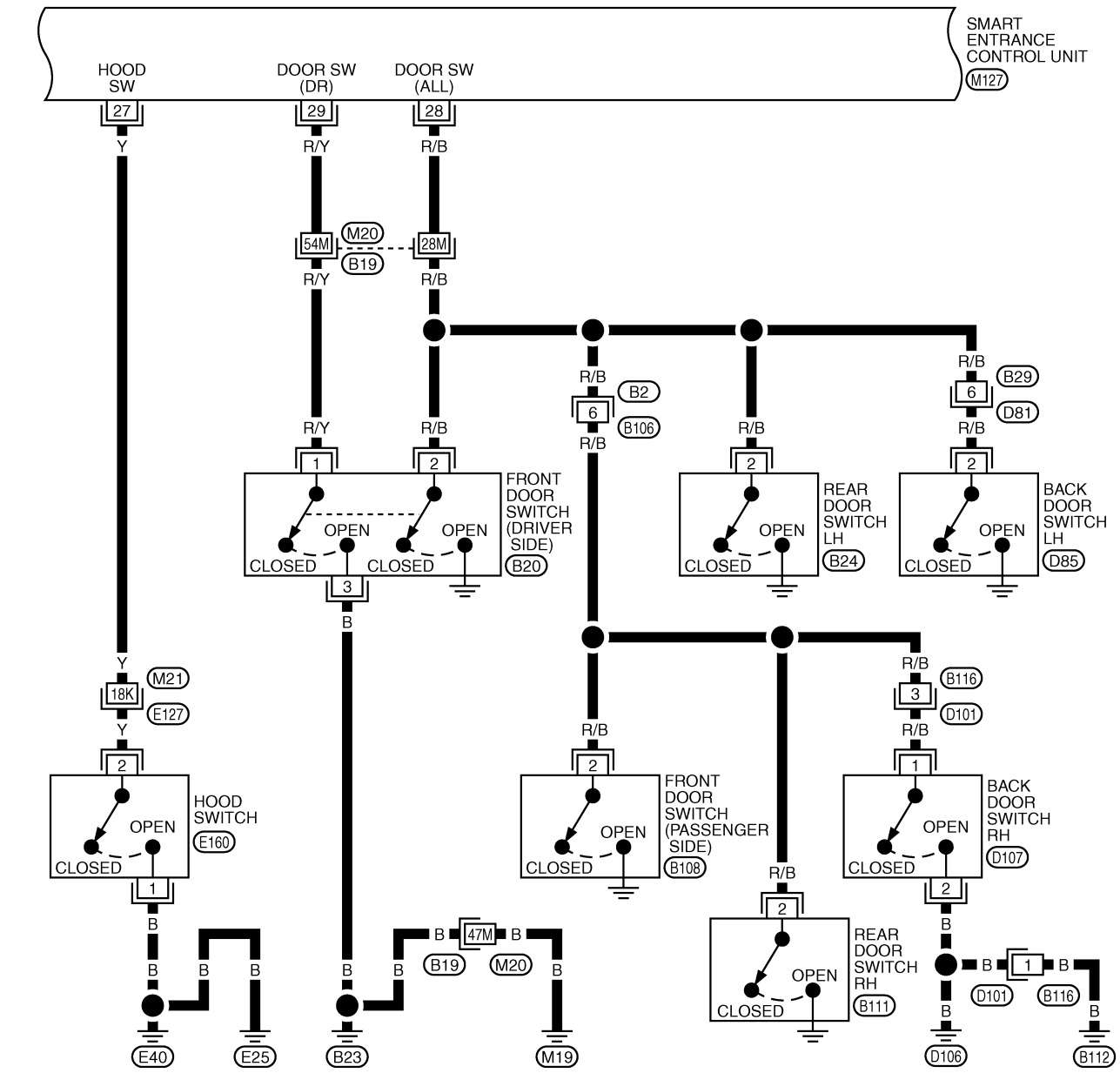
TEL124N

EL-4280

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-03



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

M127
B



1 2
E160
GY

1 2 3 4
5 6 7 8
B2
W

B2
W

1 2
3
B20, B24, B108, B111, D85
B

B20, B24, B108, B111, D85
B

B20, B24, B108, B111, D85
B

B20, B24, B108, B111, D85
B

B20, B24, B108, B111, D85
B

B20, B24, B108, B111, D85
B

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

1 2 3 4 5 6
D81, D101
W

Refer to last page (Foldout page).

M20, B19

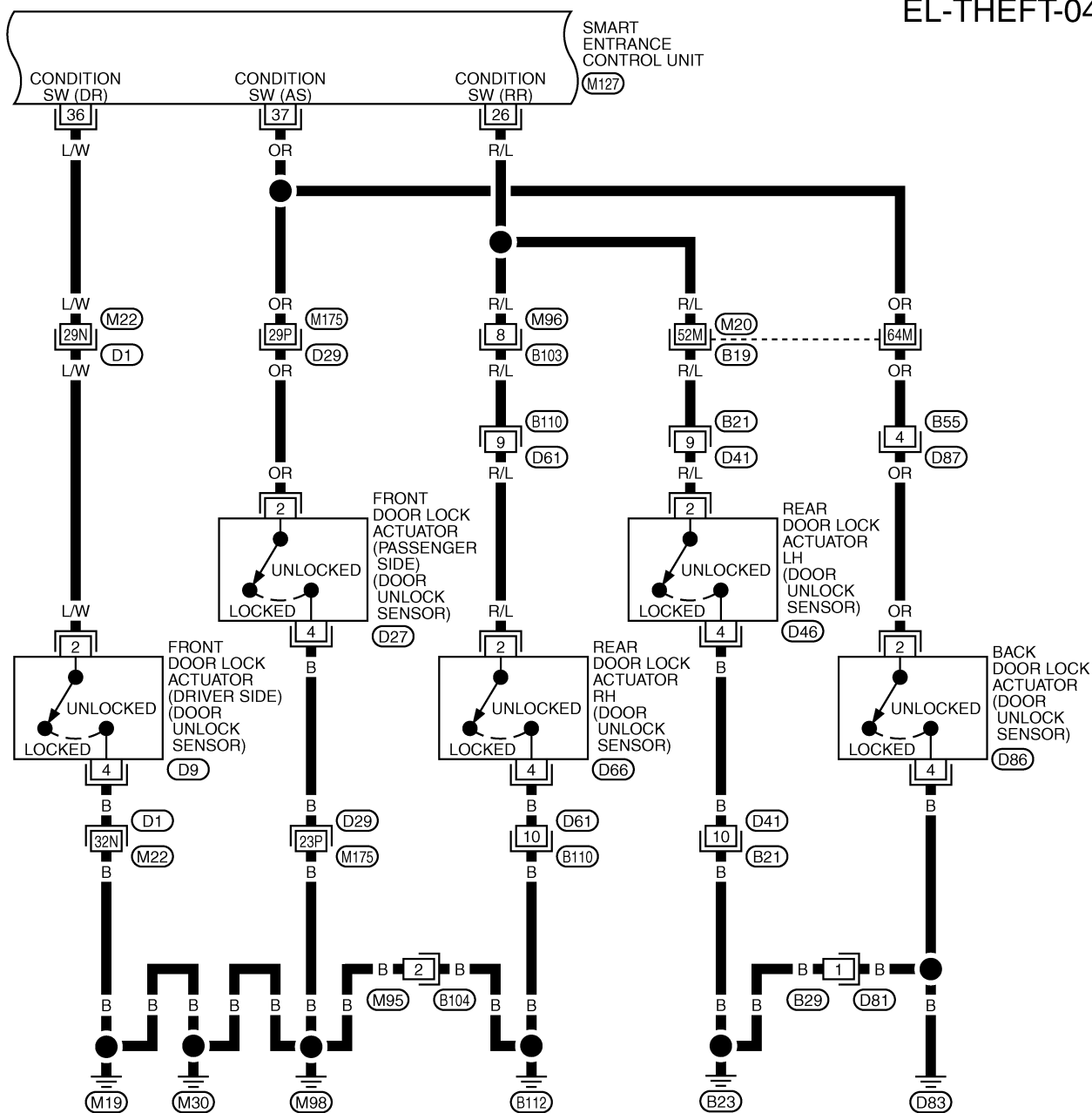
M21, E127

TEL726M

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-04



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

[B21]	[B110]
W	W

1	2	3	4	5	6	7
8	9	10	11	12	13	14

[B103]
W

1	2	3	4
5	6	7	8

[B104]
W

3	4
1	2

[D9]	[D27]	[D46]	[D66]	[D86]
GY	GY	GY	GY	GY

1	2
3	4

[D81]
W

1	2	3	4

[D87]
W

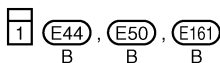
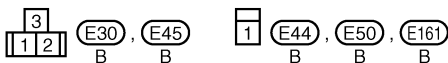
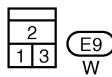
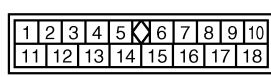
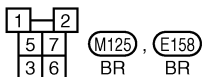
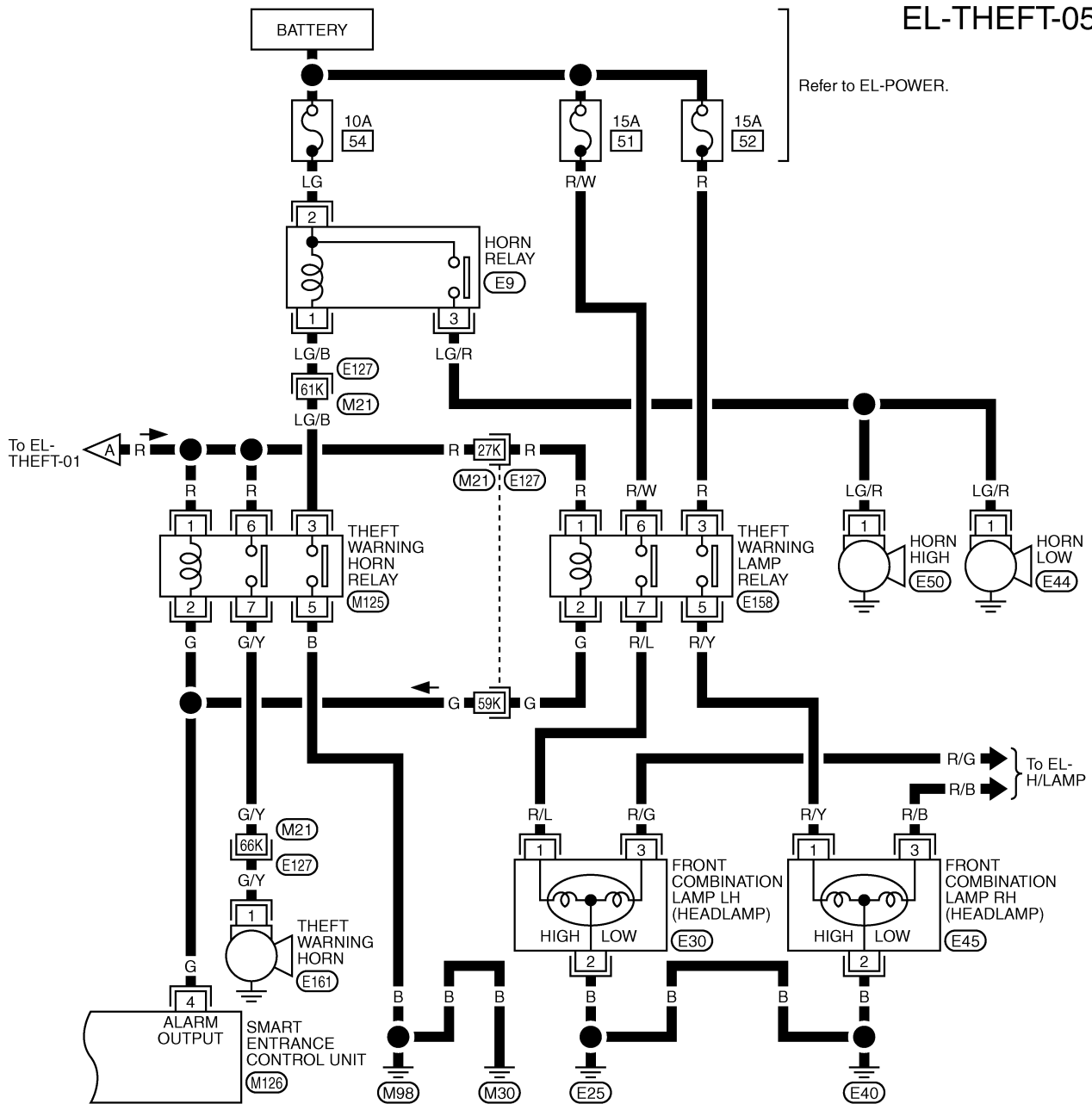
Refer to last page (Foldout page).

[M20]	[B19]
[M22]	[D1]
[M175]	[D29]

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-05

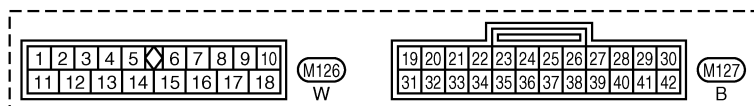
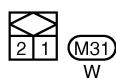
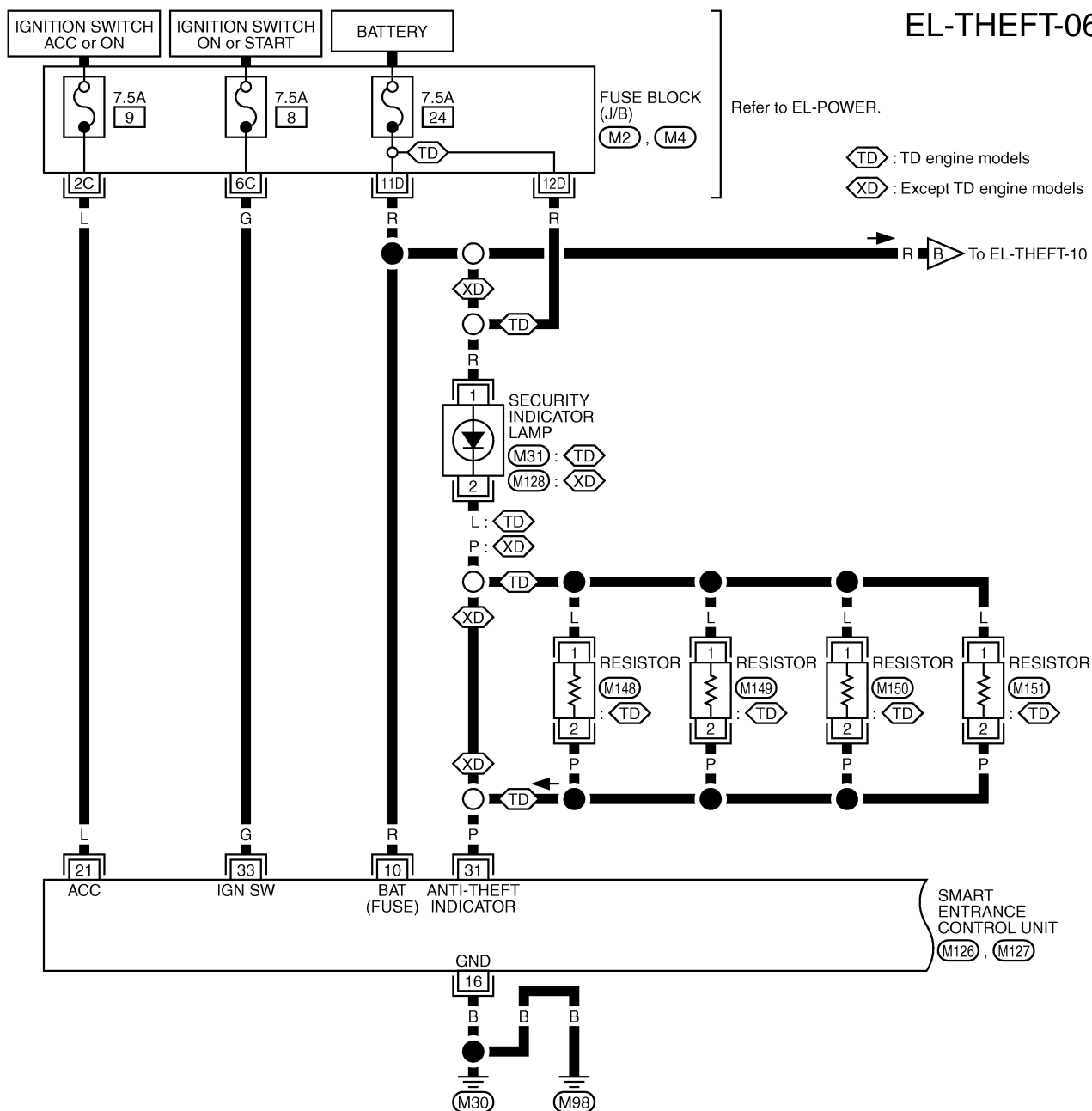


Refer to last page (Foldout page).
(M21), (E127)

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

Wiring Diagram — THEFT —/RHD Models

EL-THEFT-06



Refer to last page (Foldout page).

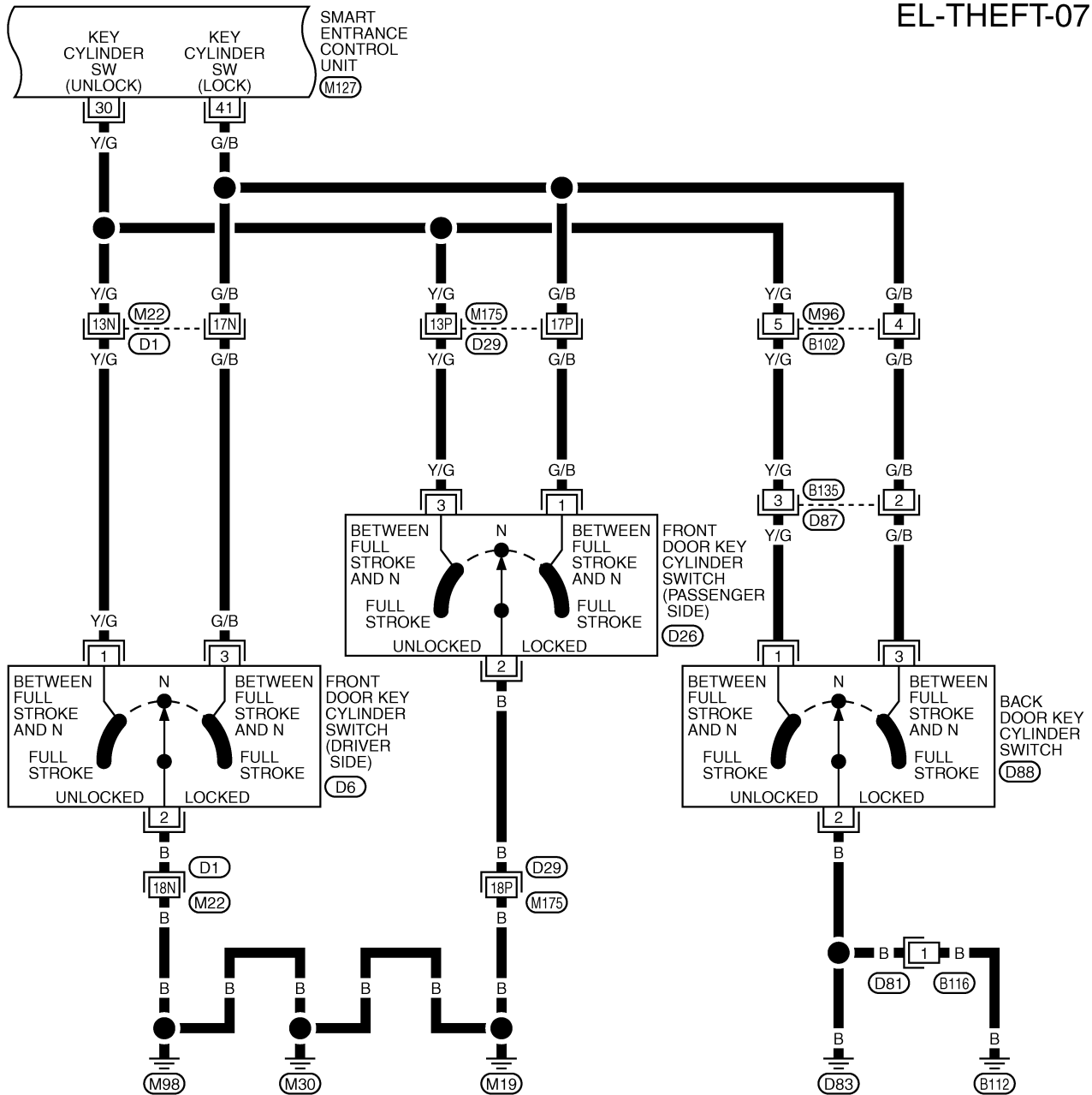


TEL127N

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-07



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

M127
B



1	2	3	4	5			6	7	8	9
10	11	12	13	14	15	16	17	18	19	20

B102
W

3	2	1
---	---	---

D6
BR

D26
BR

D88
BR

1			2
3	4	5	6

D81
W

1	2	3	4
---	---	---	---

D87
W

Refer to last page (Foldout page).

M22, D1

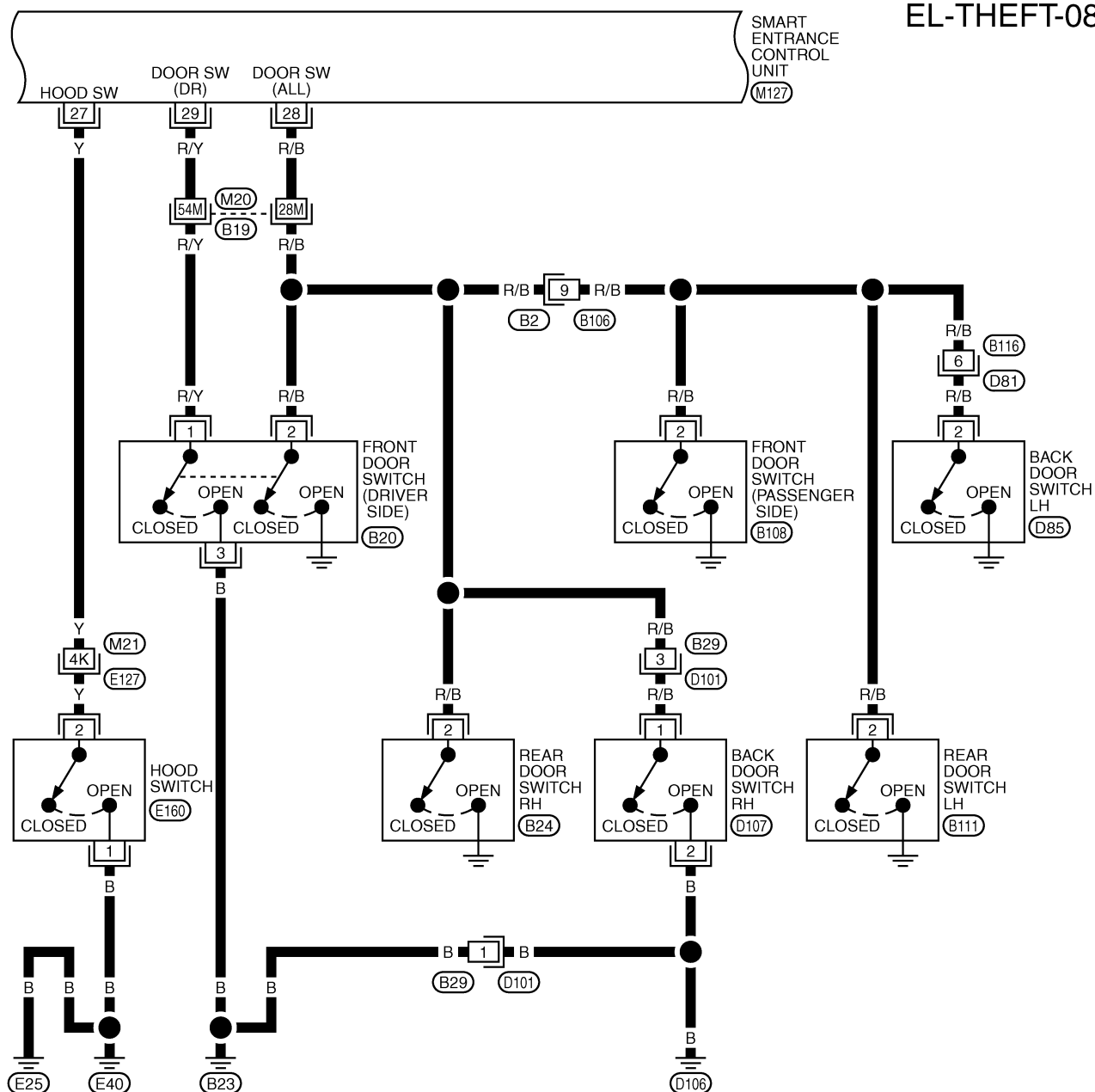
M175, D29

TEL128N

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

EL-THEFT-08



19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42

(M127)
B



(1 2)
E160
GY

1	2	3	4	5
6	7	8	9	10
11	12			

(B2)
W

Refer to last page (Foldout page).

(M20), (B19)

(M21), (E127)

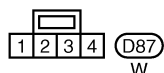
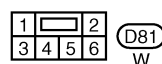
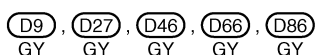
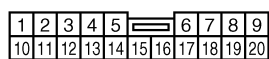
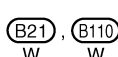
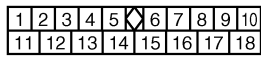
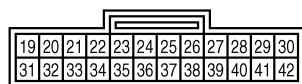
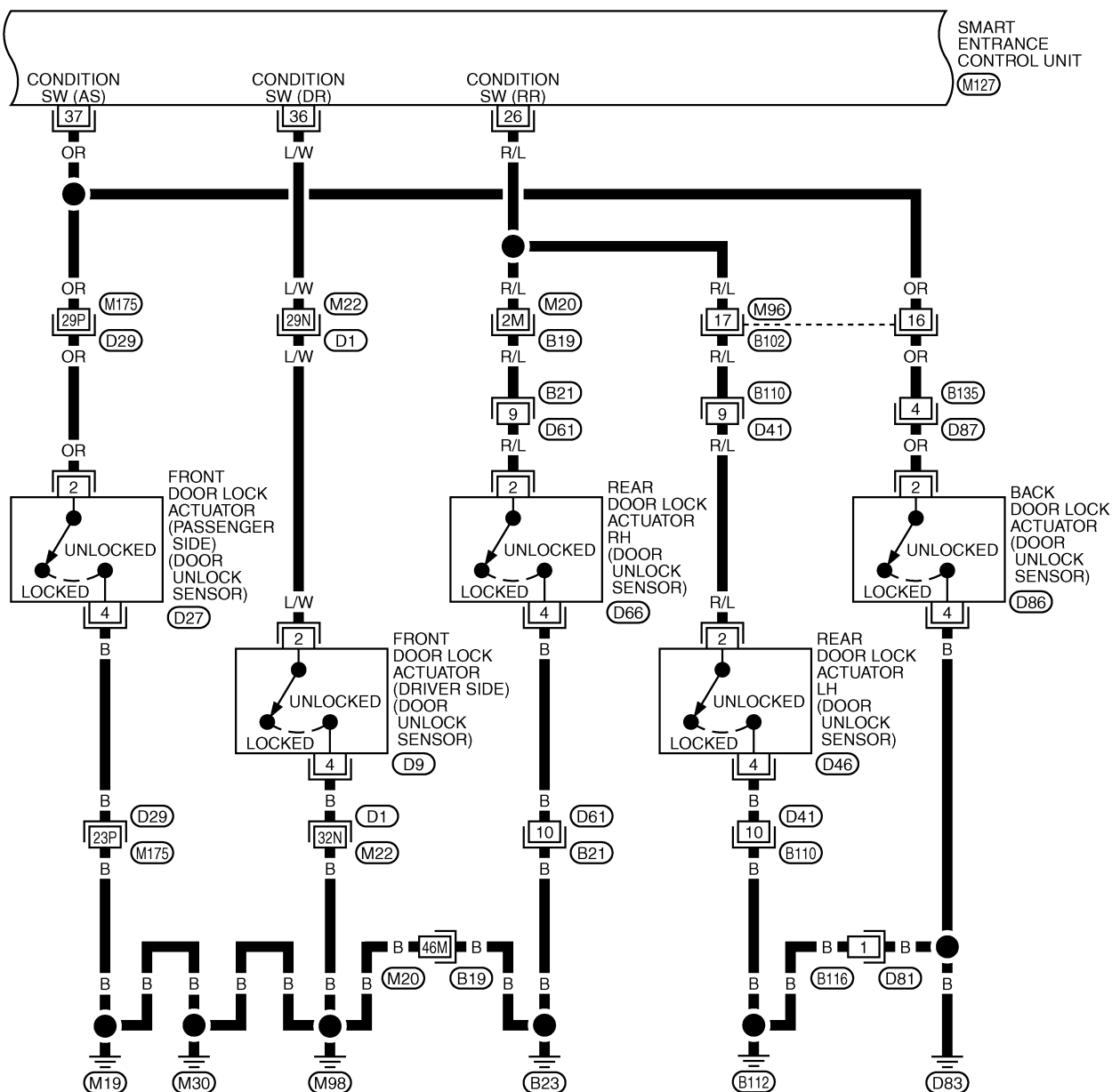
(1 2 3)
(B20), (B24), (B108), (B111), (D85)
B

(1 2 3 4 5 6)
(D81), (D101)
W

(1 2)
(D107)
W

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

SMART
ENTRANCE
CONTROL UNIT
(M127)

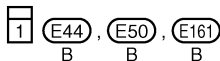
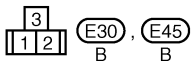
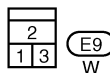
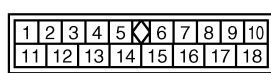
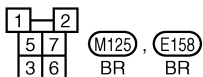
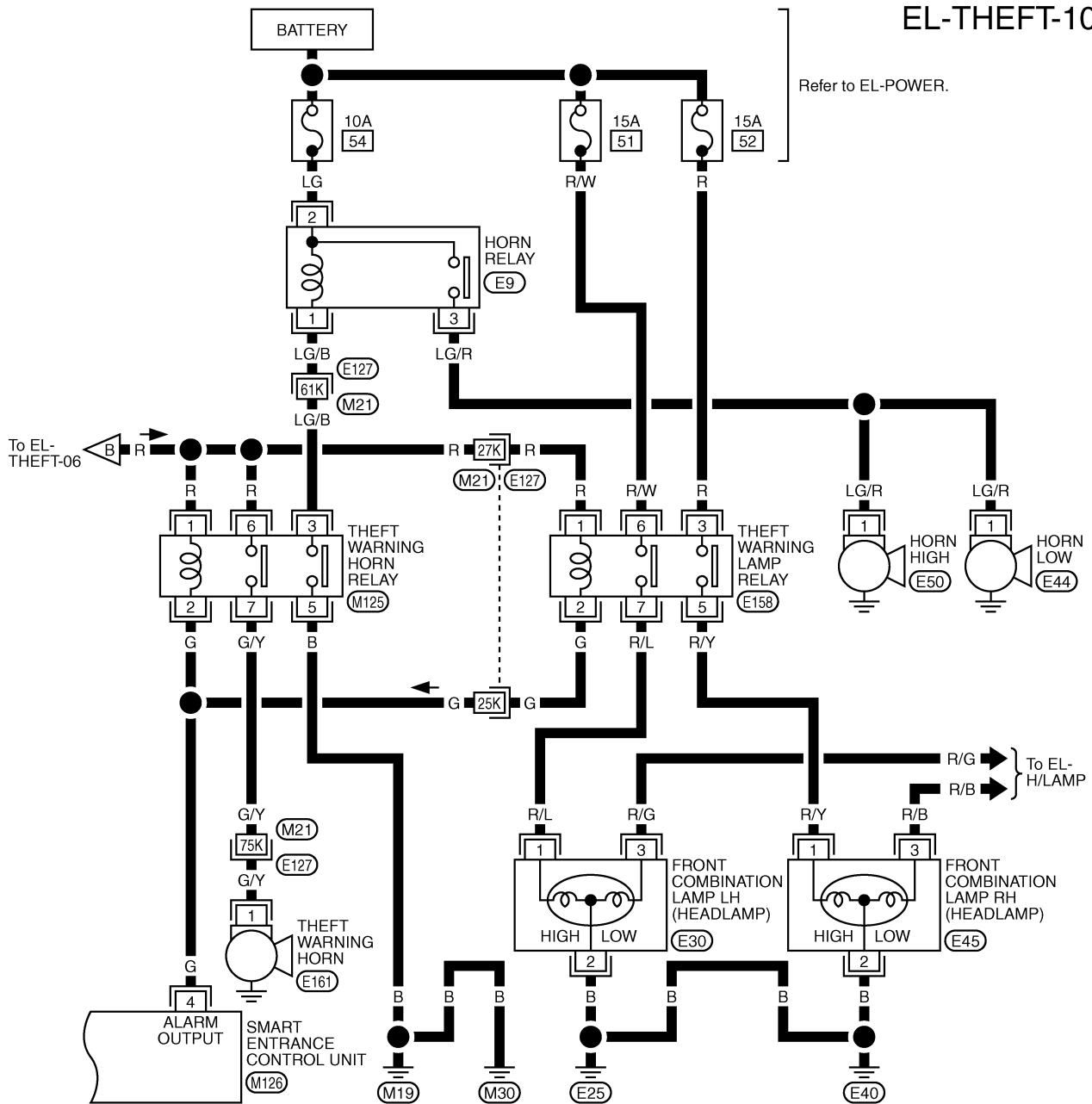


(M20), (B19)
(M22), (D1)
(M175), (D29)

THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

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

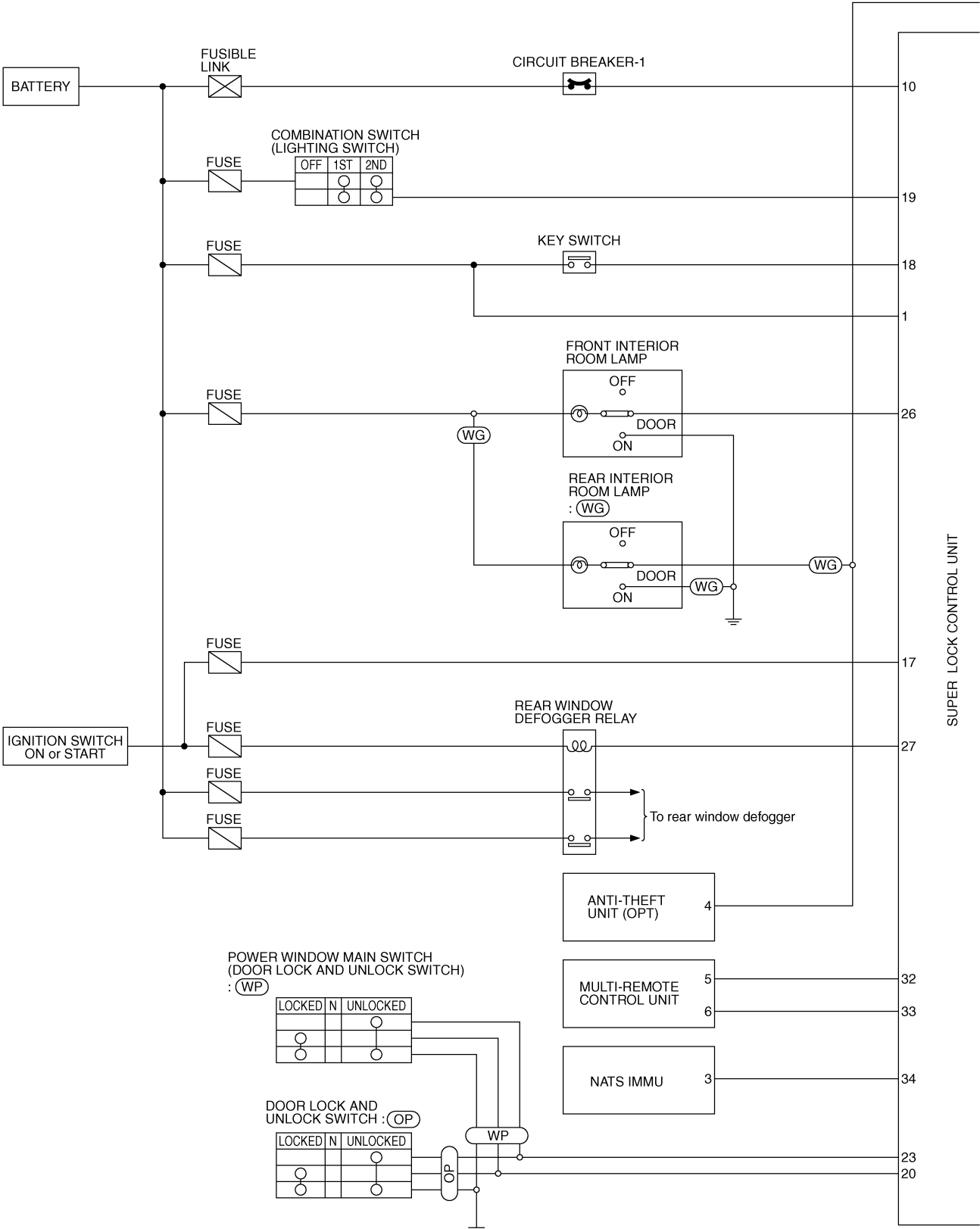
EL-THEFT-10



THEFT WARNING SYSTEM/WAGON AND HARDTOP MODELS

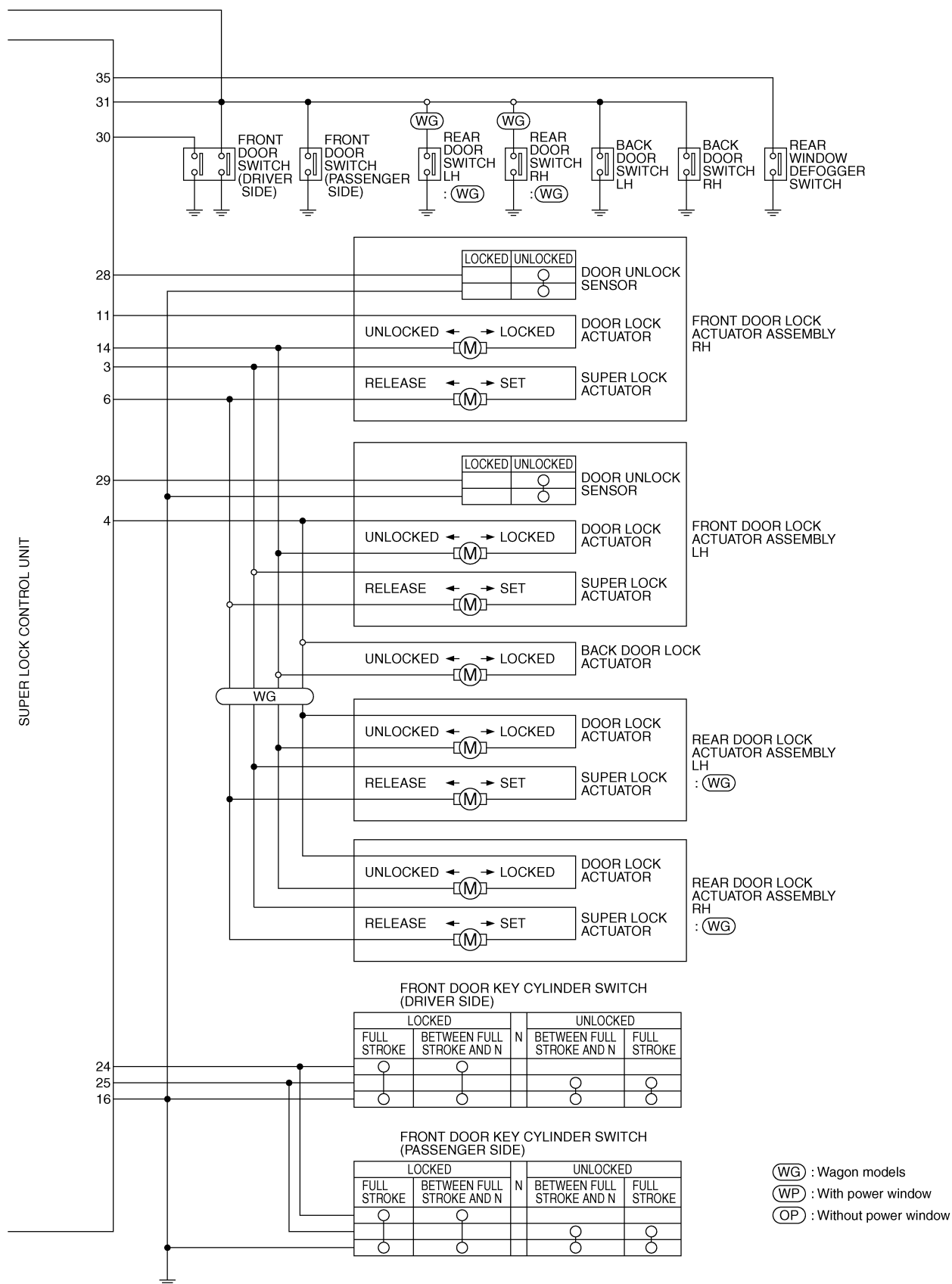
NOTE

Schematic/RHD Models for Europe



SUPER LOCK CONTROL UNIT/WAGON AND HARDTOP MODELS

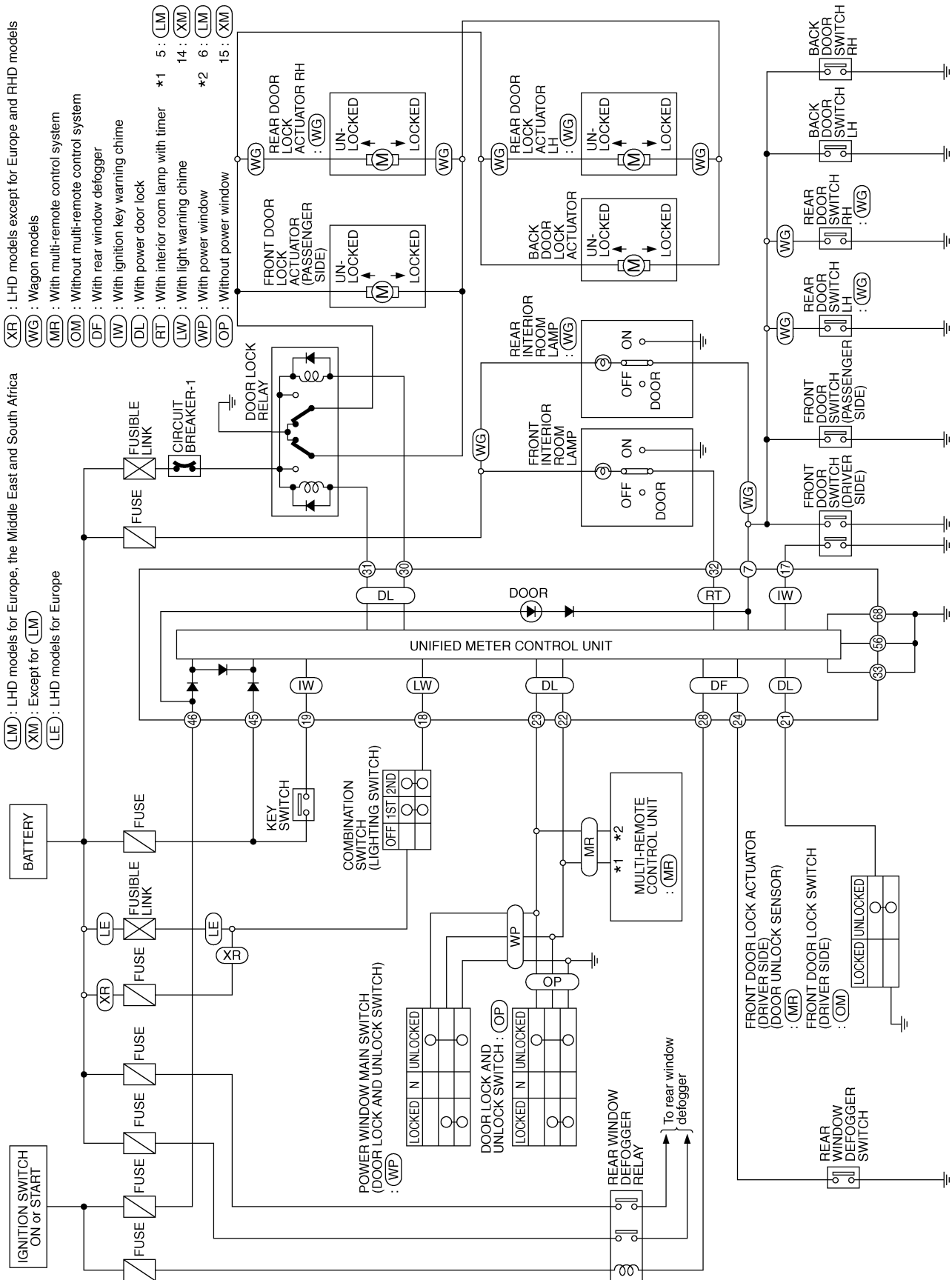
Schematic/RHD Models for Europe (Cont'd)



TEL132N

UNIFIED METER CONTROL UNIT (TIME CONTROL SYSTEM)/WAGON AND HARDTOP MODELS

Schematic/Except RHD Models for Europe and With Theft Warning System Models



TEL133N

NATS (Nissan Anti-Theft System)/TB48DE ENGINE MODELS FOR EUROPE

Wiring Diagram — NATS —

EL-NATS-01

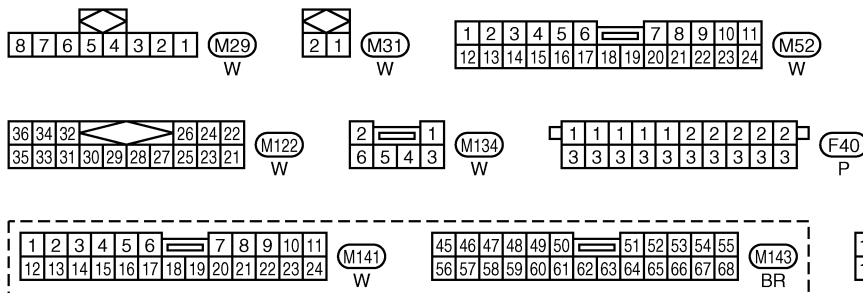
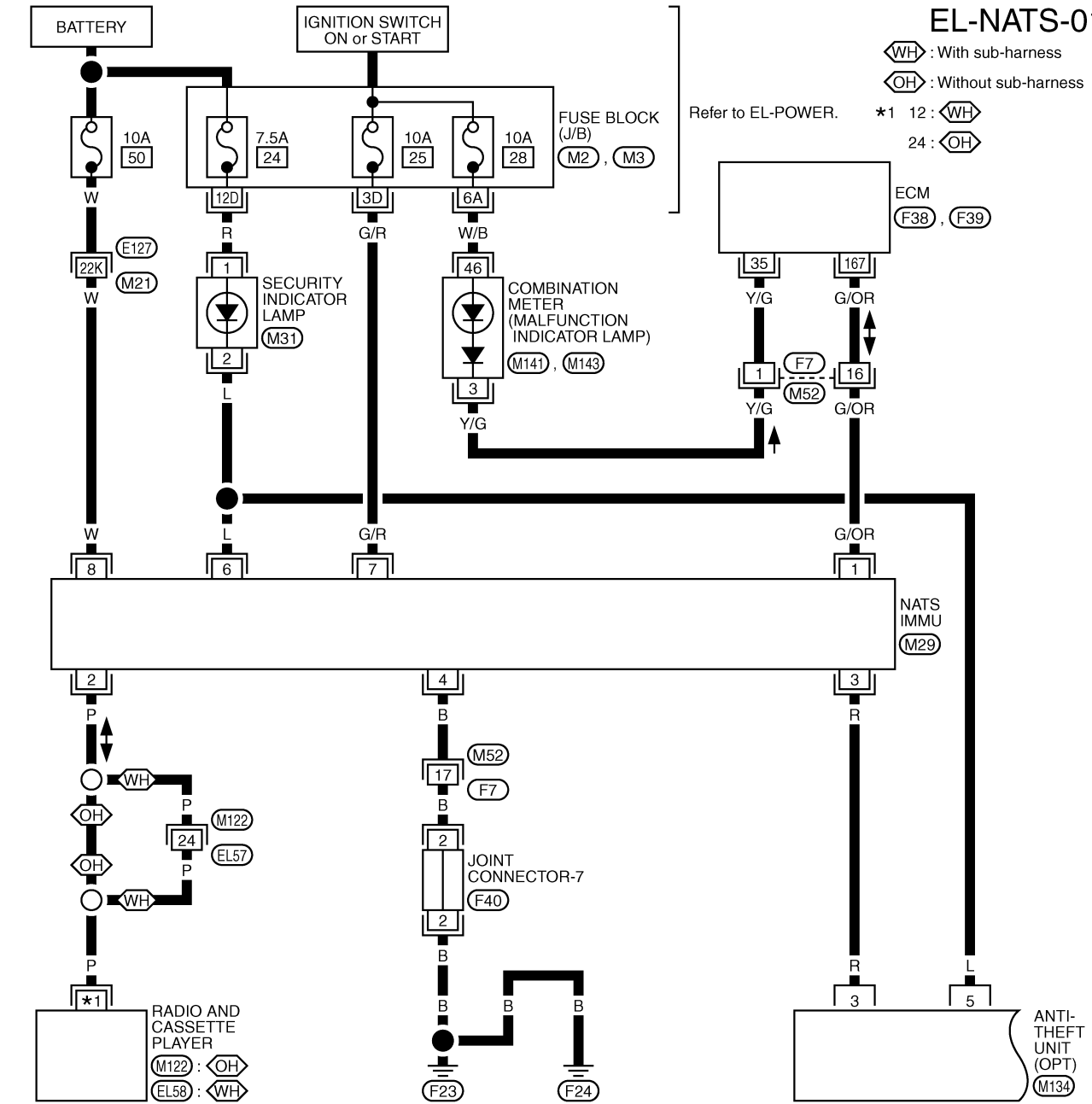
◻WH◻ : With sub-harness

◻OH◻ : Without sub-harness

*1 12 : ◻WH◻

24 : ◻OH◻

Refer to EL-POWER.



Refer to last page (Foldout page).

M21, E127

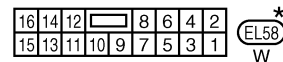
M2

M3

F38

F39

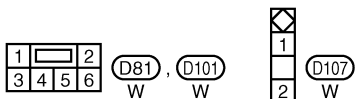
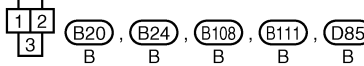
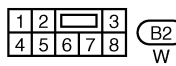
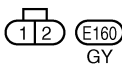
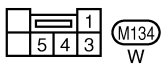
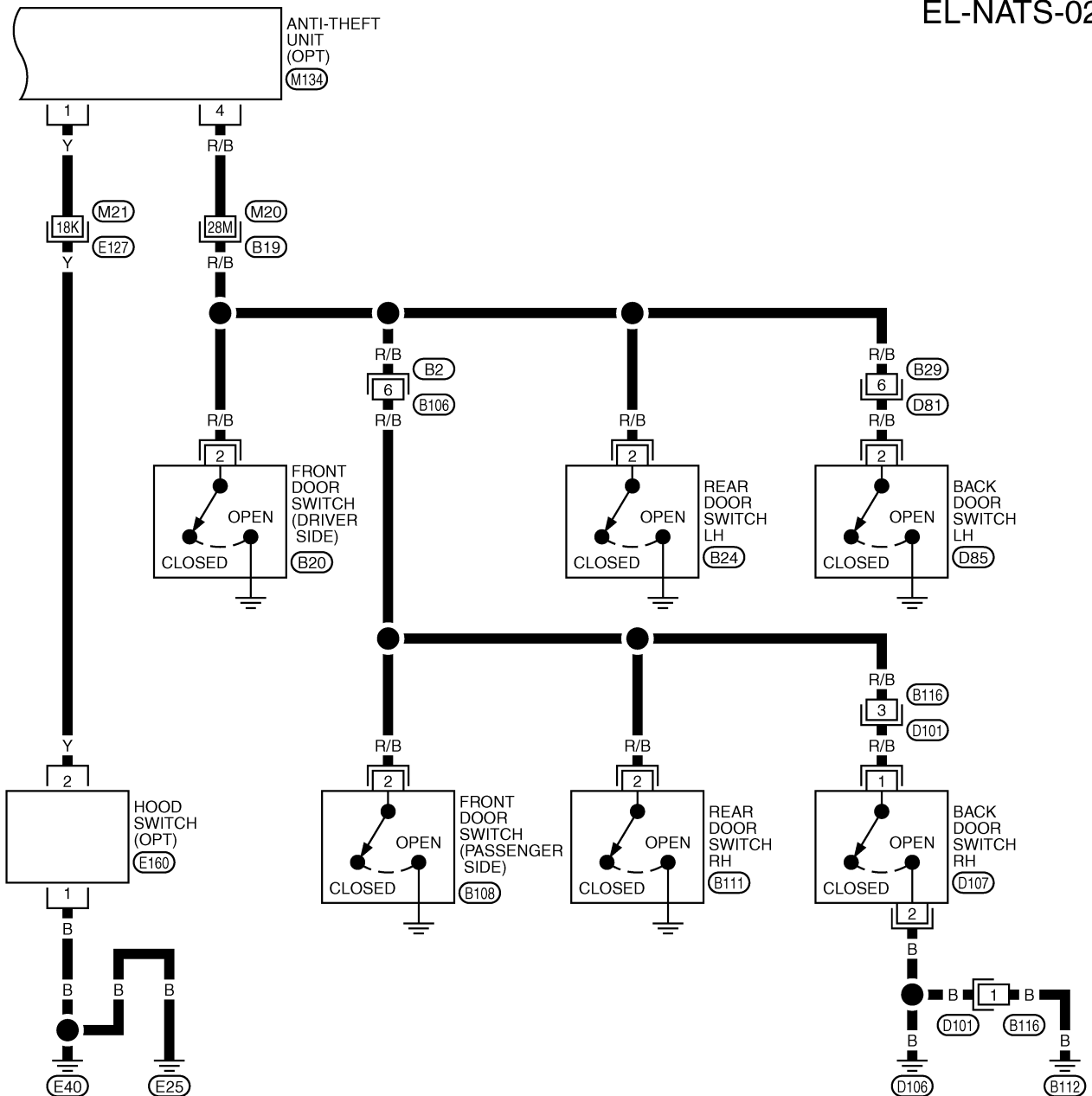
*: This connector is not shown in "HARNESS LAYOUT", EL section.



NATS (Nissan Anti-Theft System)/TB48DE ENGINE MODELS FOR EUROPE

Wiring Diagram — NATS — (Cont'd)

EL-NATS-02



Refer to last page (Foldout page).

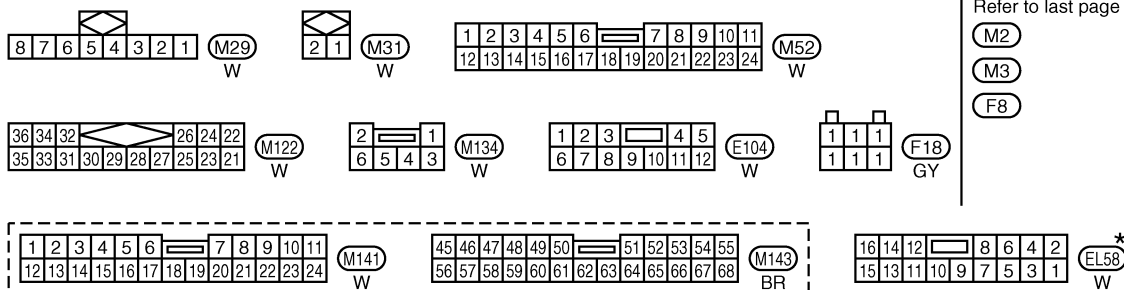
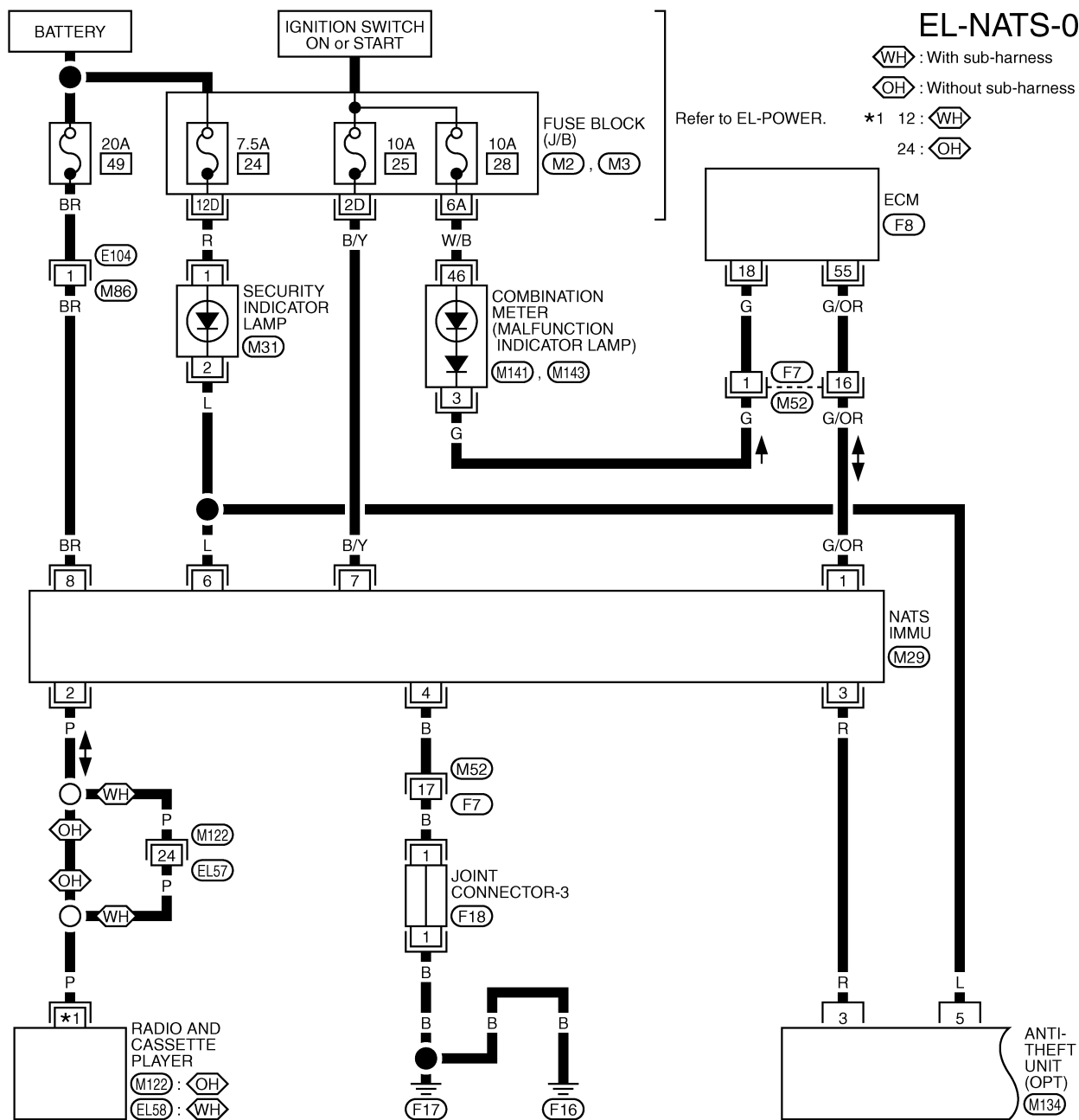
M20, B19
M21, E127

NATS (Nissan Anti-Theft System)/ZD ENGINE MODELS

Wiring Diagram — NATS —/LHD Models for Europe

EL-NATS-03

(WH) : With sub-harness
 (OH) : Without sub-harness
 *1 12 : (WH)
 24 : (OH)



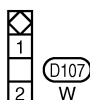
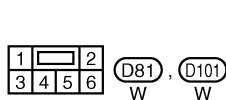
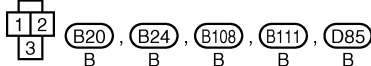
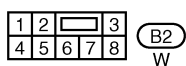
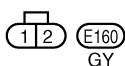
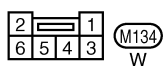
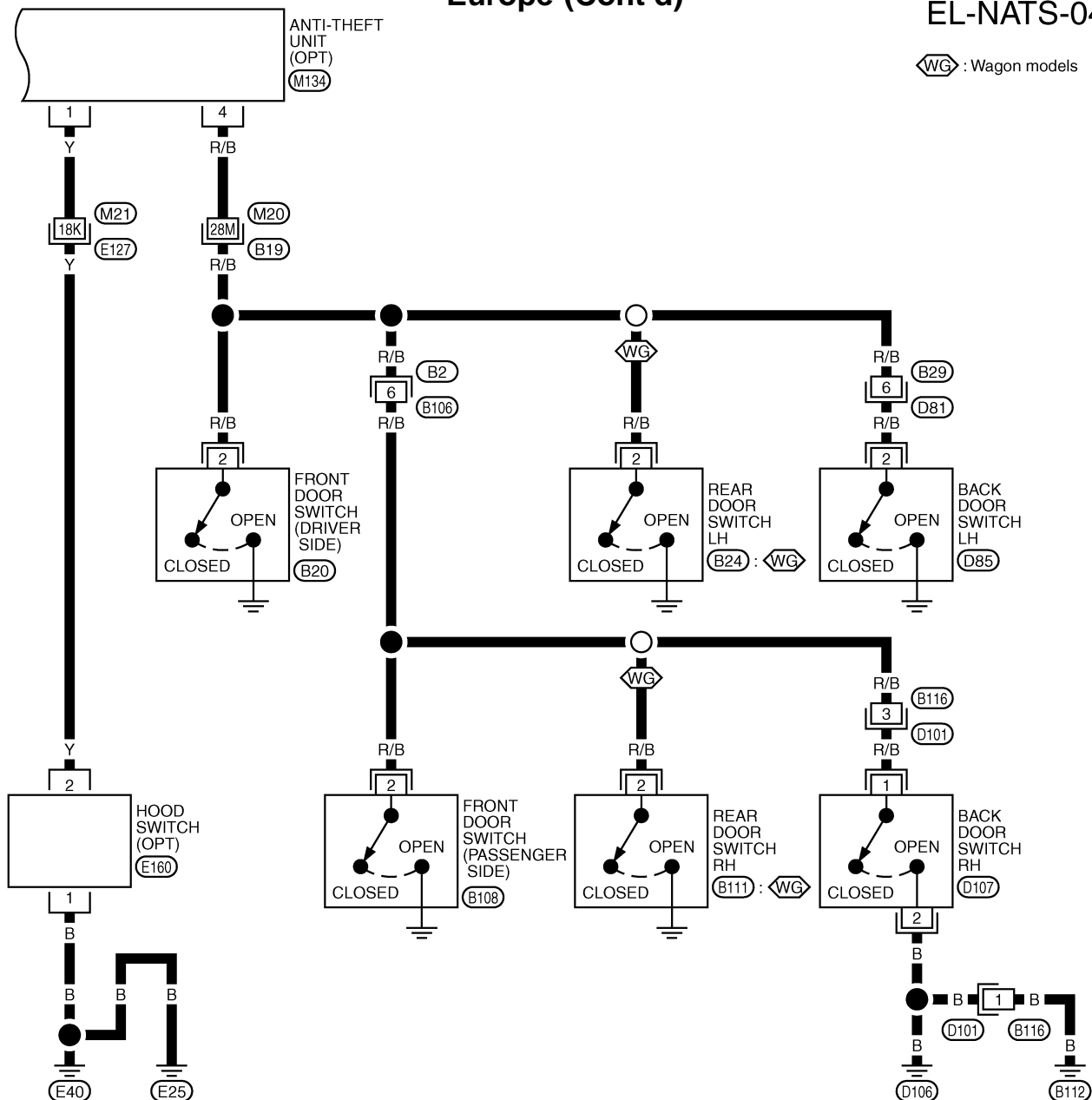
*: This connector is not shown in "HARNESS LAYOUT", EL section.

NATS (Nissan Anti-Theft System)/ZD ENGINE MODELS

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

EL-NATS-04

WG : Wagon models



Refer to last page (Foldout page).

M20, B19

M21, E127

NATS (Nissan Anti-Theft System)/ZD ENGINE MODELS

Wiring Diagram — NATS —/RHD Models for Europe

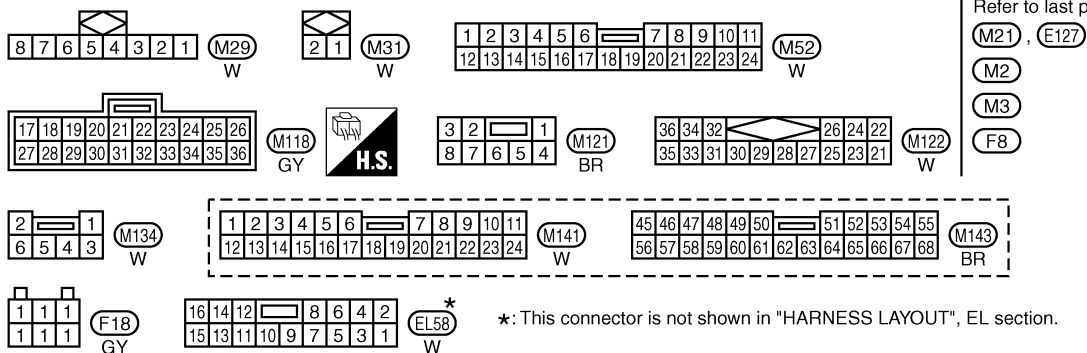
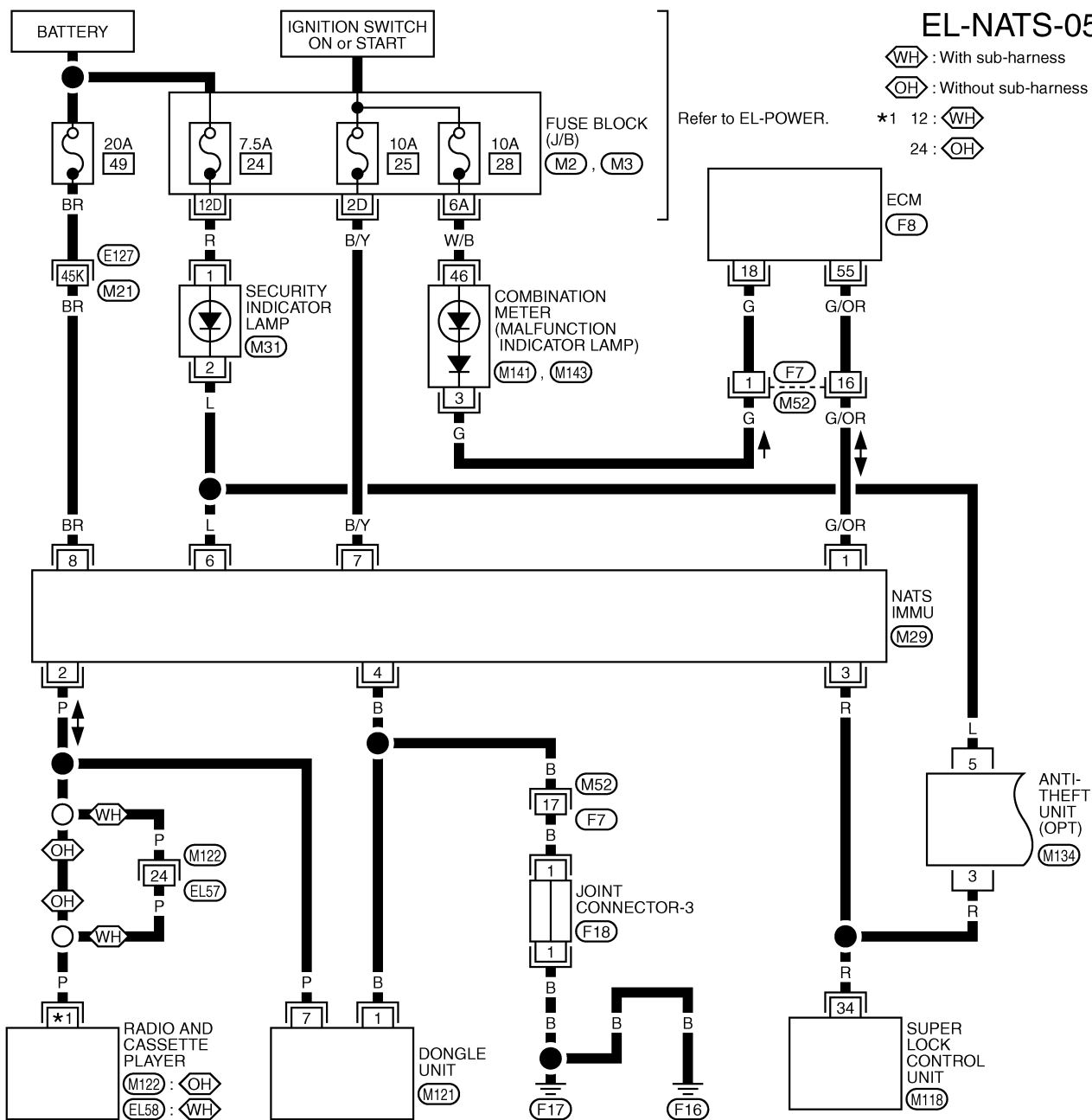
EL-NATS-05

◻WH : With sub-harness

◻OH : Without sub-harness

*1 12 : ◻WH
24 : ◻OH

Refer to EL-POWER.



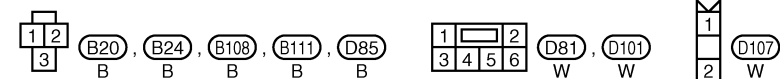
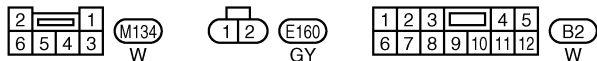
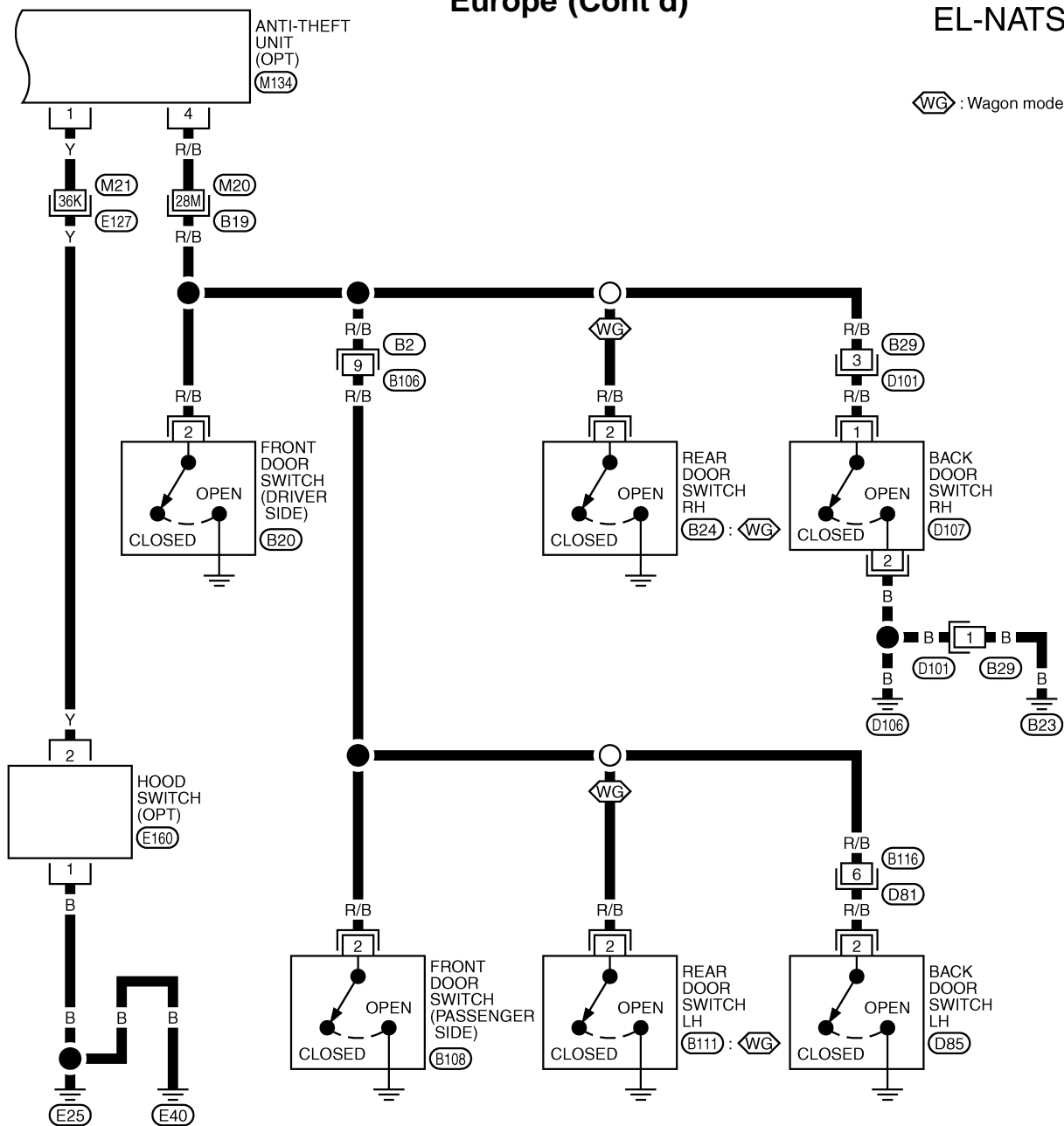
*: This connector is not shown in "HARNESS LAYOUT", EL section.

NATS (Nissan Anti-Theft System)/ZD ENGINE MODELS

Wiring Diagram — NATS —/RHD Models for Europe (Cont'd)

EL-NATS-06

WG : Wagon models



Refer to last page (Foldout page).

(M20), (B19)
(M21), (E127)

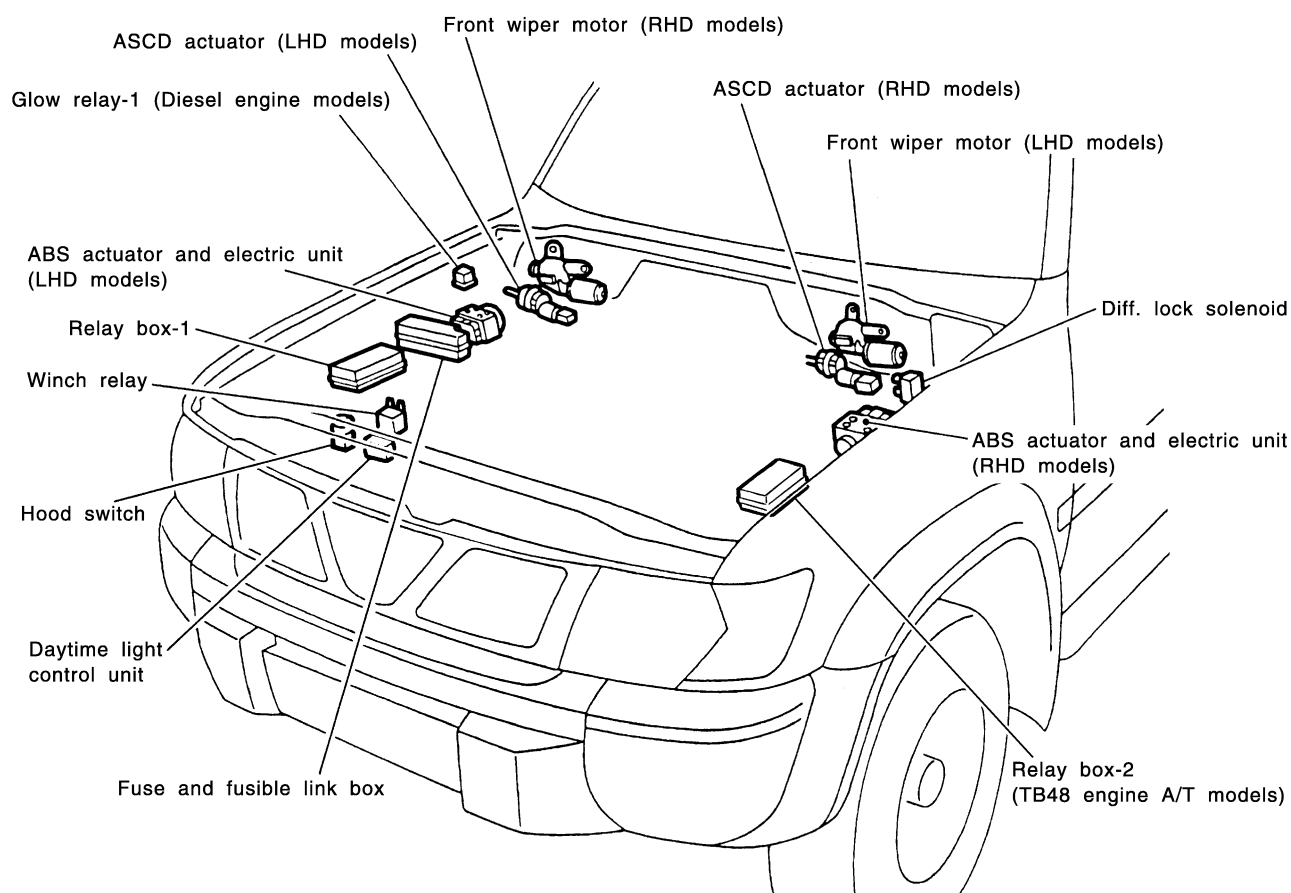
TEL138N

NATS (Nissan Anti-Theft System)/ZD ENGINE MODELS

NOTE

LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

Engine Compartment

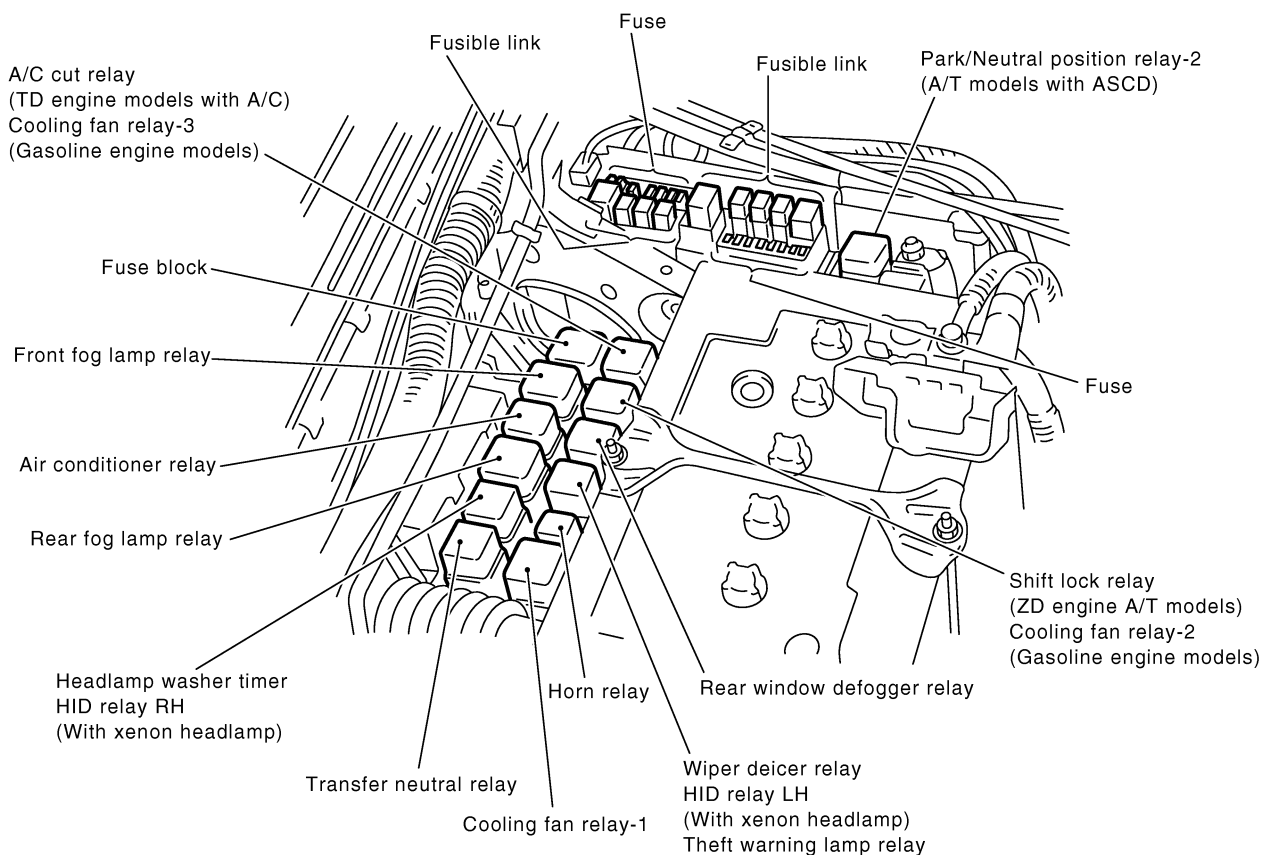


CEL449M

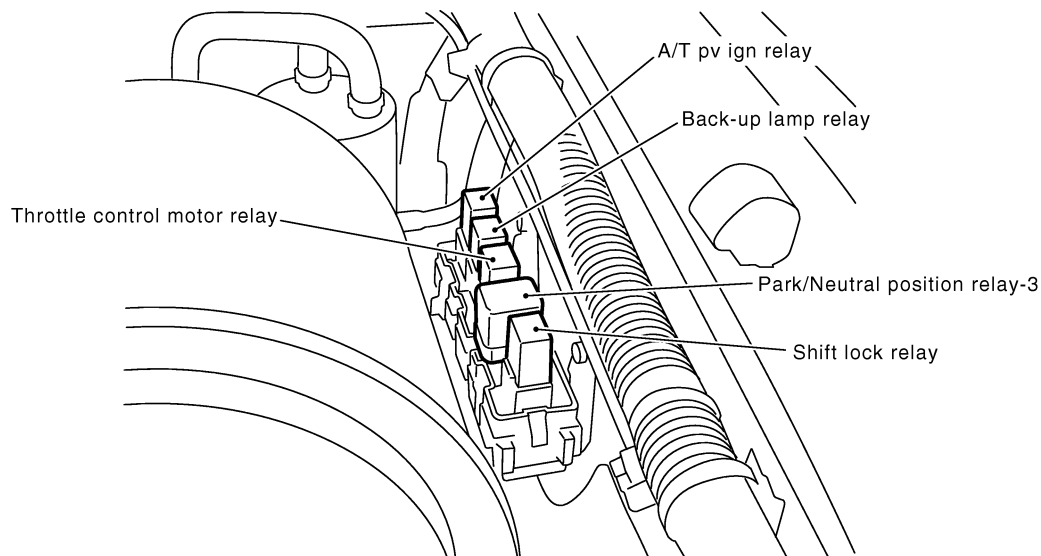
LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

Engine Compartment (Cont'd)

Relay box-1 and Fuse and fusible link box



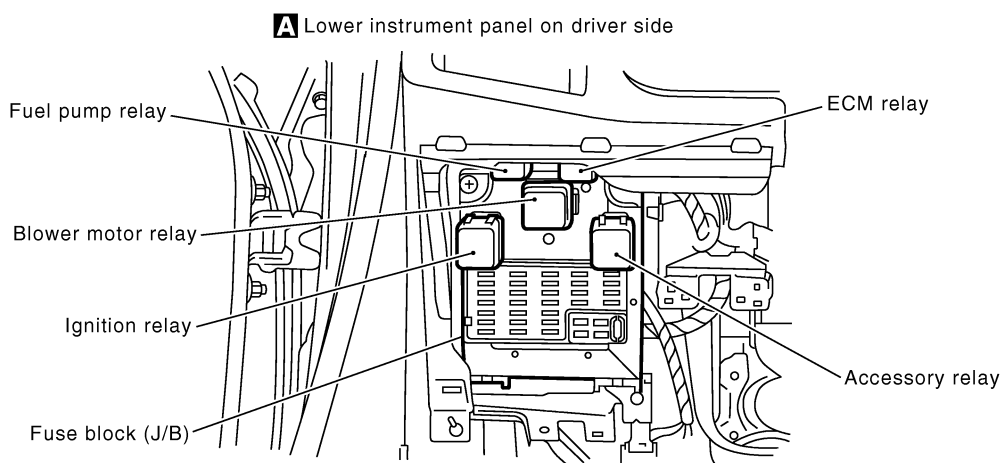
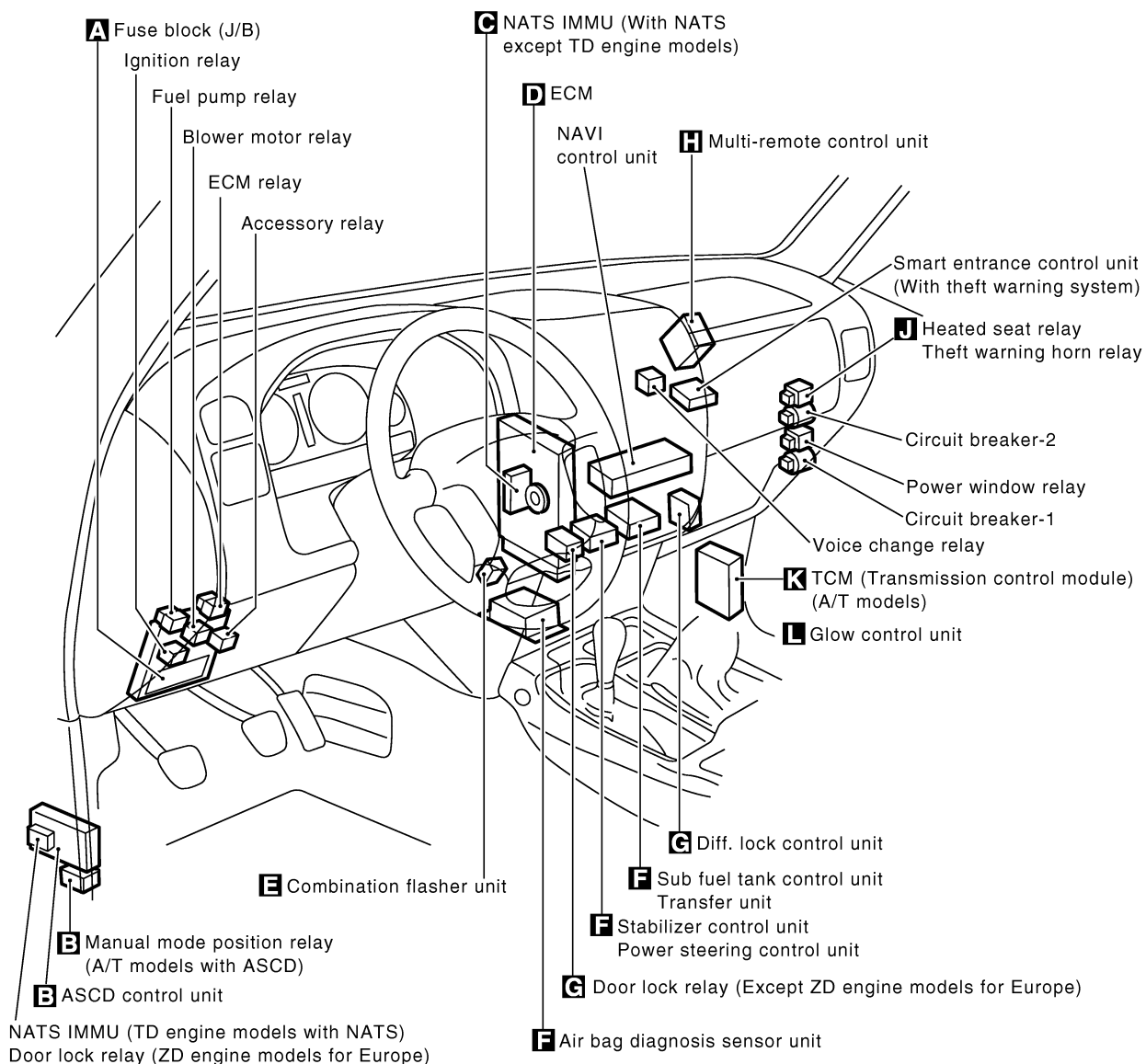
Relay box-2 (TB48 engine A/T models)



CEL579M

LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

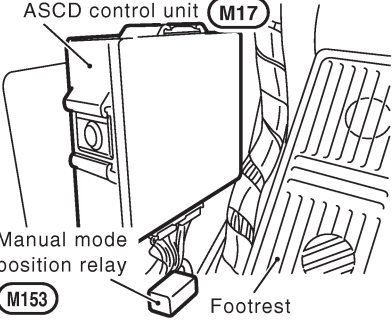
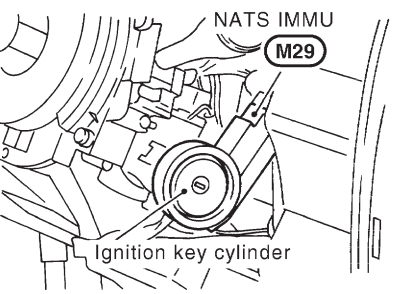
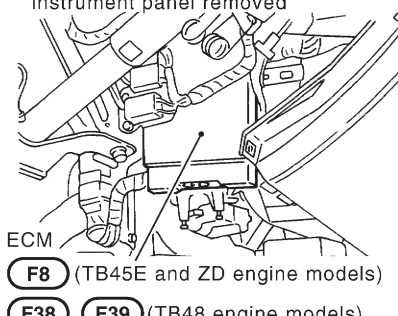
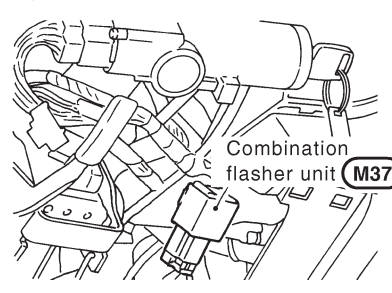
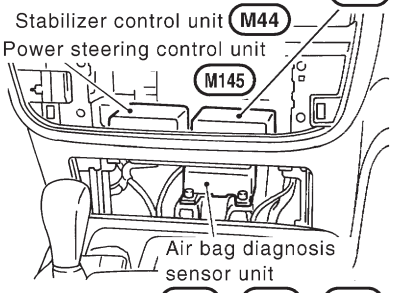
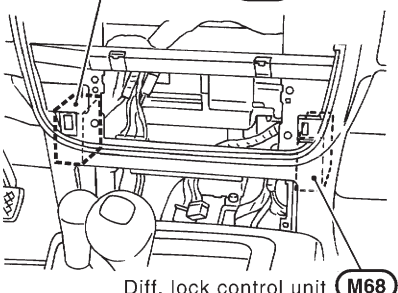
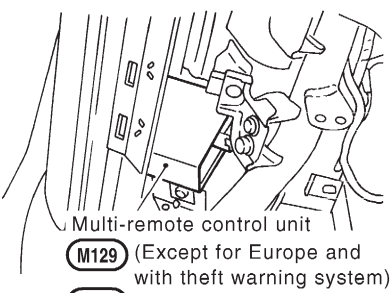
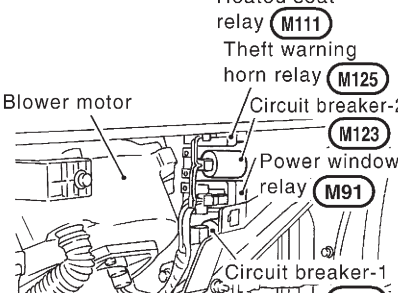
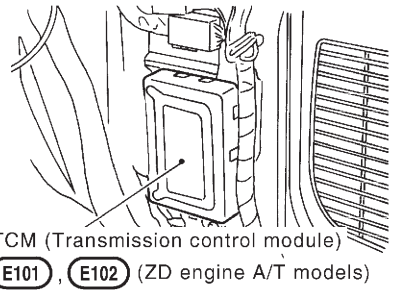
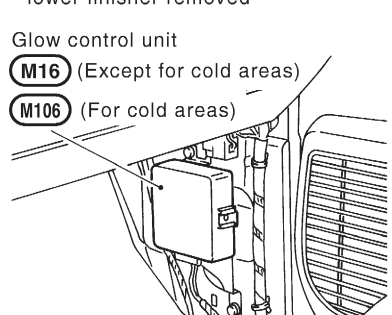
Passenger Compartment — LHD Models



CEL580M

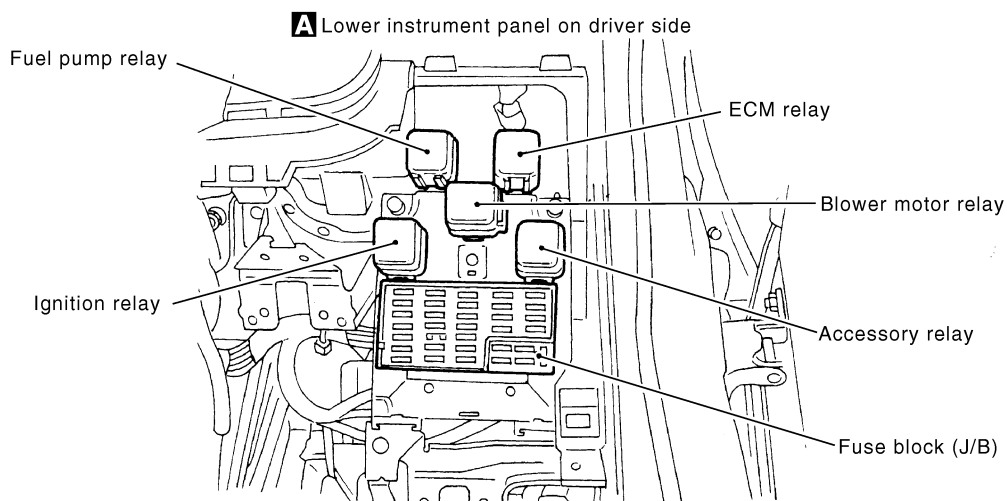
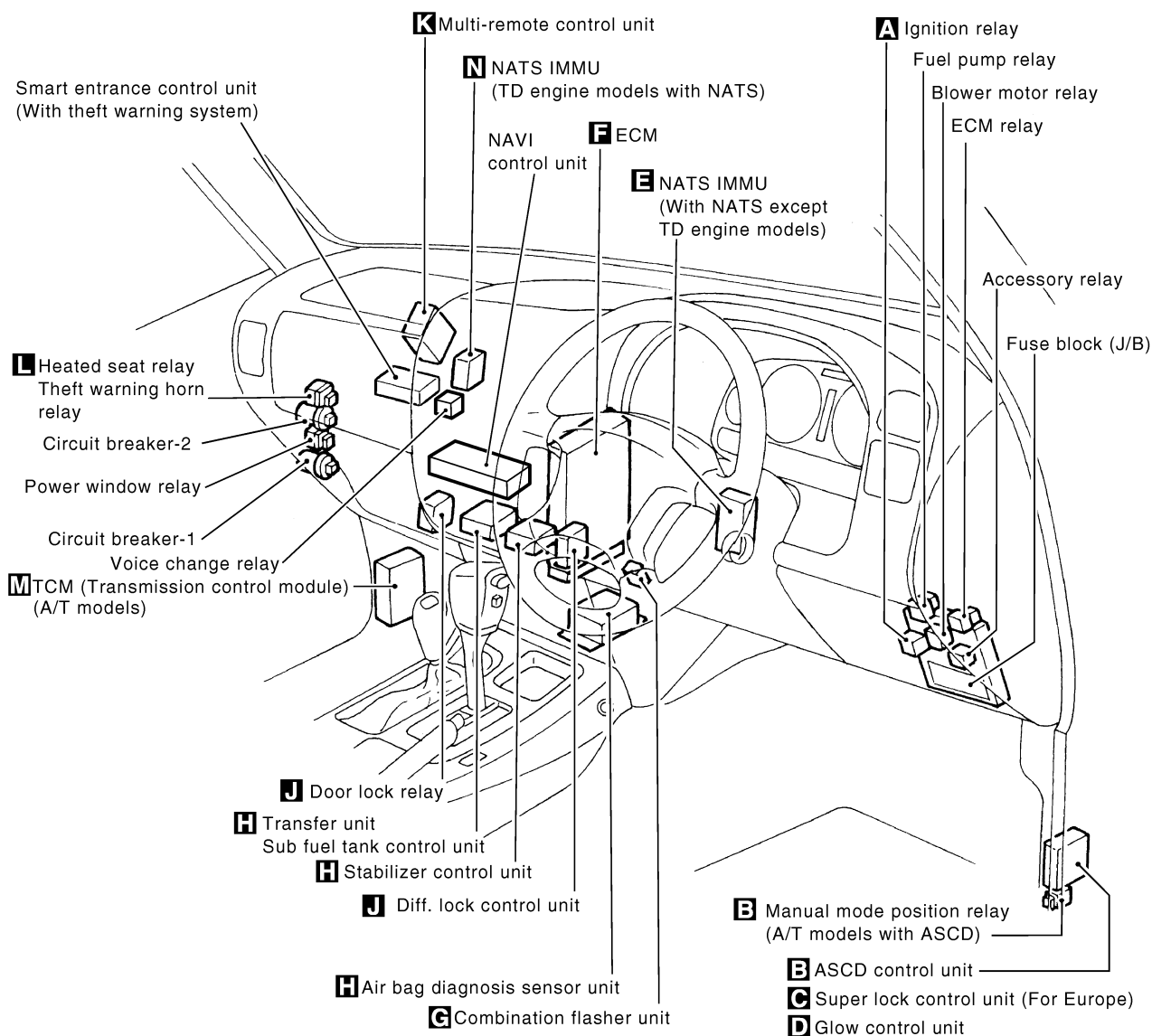
LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

Passenger Compartment — LHD Models (Cont'd)

<p>B Driver side view with dash side lower finisher removed</p> <p>ASCD control unit M17</p> <p>Manual mode position relay M153</p> <p>Footrest</p> 	<p>C With NATS except TD engine models</p> <p>NATS IMMU M29</p> <p>Ignition key cylinder</p> 	<p>D Driver side view with lower instrument panel removed</p> <p>ECM F8 (TB45E and ZD engine models) F38, F39 (TB48 engine models)</p> 
<p>E Driver side view lower instrument panel removed</p> <p>Combination flasher unit M37</p> 	<p>F Transfer unit M173 Sub fuel tank control unit M69 Stabilizer control unit M44 Power steering control unit M145 Air bag diagnosis sensor unit M54, B131, B132</p> 	<p>G Door lock relay M140 Diff. lock control unit M68</p> 
<p>H View with glove box assembly removed</p> <p>Multi-remote control unit M129 (Except for Europe and with theft warning system) M133 (For Europe)</p> 	<p>J View with glove box assembly removed</p> <p>Heated seat relay M111 Theft warning horn relay M125 Blower motor Circuit breaker-2 M123 Power window relay M91 Circuit breaker-1 M92</p> 	<p>K Passenger side view with dash side lower finisher removed</p> <p>TCM (Transmission control module) E101, E102 (ZD engine A/T models) E123, E124 (TB48 engine A/T models)</p> 
<p>L Passenger side view with dash side lower finisher removed</p> <p>Glow control unit M16 (Except for cold areas) M106 (For cold areas)</p> 		

LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

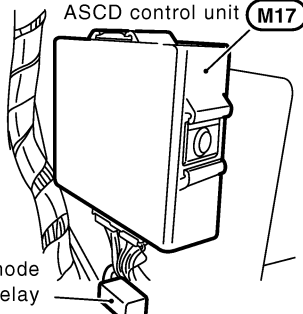
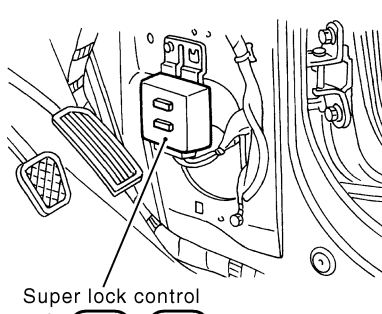
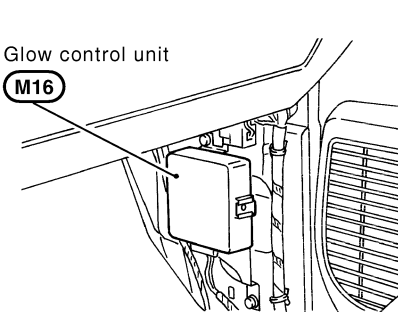
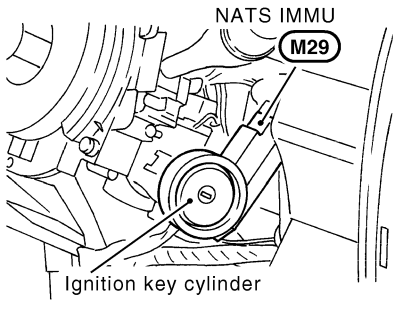
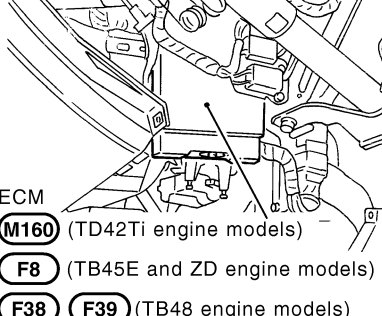
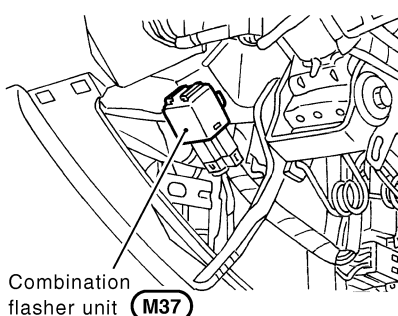
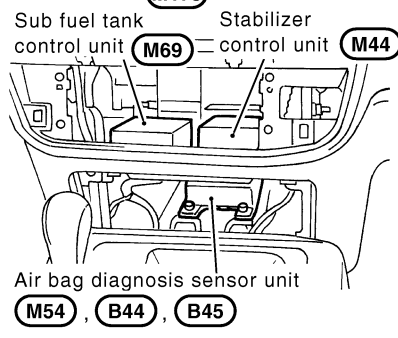
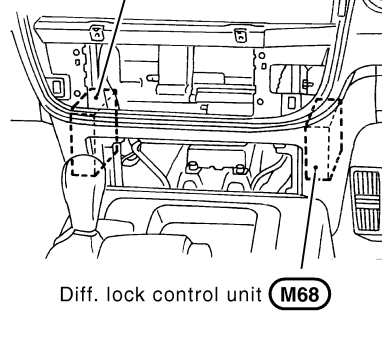
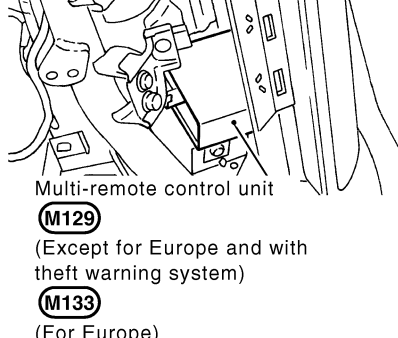
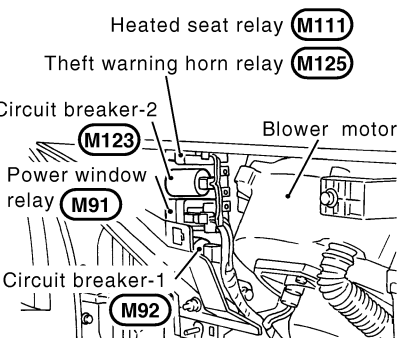
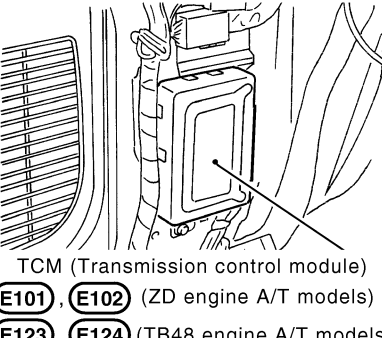
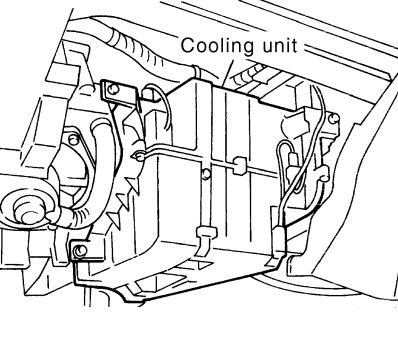
Passenger Compartment — RHD Models



CEL582M

LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

Passenger Compartment — RHD Models (Cont'd)

<p>B Driver side view with dash side lower finisher removed</p>  <p>ASCD control unit (M17)</p> <p>Manual mode position relay (M153)</p>	<p>C Driver side view with dash side lower finisher removed</p>  <p>Super lock control unit (M117, M118)</p>	<p>D Driver side view with dash side lower finisher removed</p>  <p>Glow control unit (M16)</p>
<p>E With NATS except TD engine models</p>  <p>NATS IMMU (M29)</p> <p>Ignition key cylinder</p>	<p>F Driver side view with lower instrument panel removed</p>  <p>ECM (M160 (TD42Ti engine models), F8 (TB45E and ZD engine models), F38, F39 (TB48 engine models))</p>	<p>G Driver side view with lower instrument panel removed</p>  <p>Combination flasher unit (M37)</p>
<p>H</p>  <p>Transfer unit (M173)</p> <p>Sub fuel tank control unit (M69)</p> <p>Stabilizer control unit (M44)</p> <p>Air bag diagnosis sensor unit (M54, B44, B45)</p>	<p>J</p>  <p>Door lock relay (M140)</p> <p>Diff. lock control unit (M68)</p>	<p>K View with glove box assembly removed</p>  <p>Multi-remote control unit (M129) (Except for Europe and with theft warning system) (M133) (For Europe)</p>
<p>L View with glove box assembly removed</p>  <p>Heated seat relay (M111)</p> <p>Theft warning horn relay (M125)</p> <p>Circuit breaker-2 (M123)</p> <p>Power window relay (M91)</p> <p>Circuit breaker-1 (M92)</p> <p>Blower motor</p>	<p>M Passenger side view with dash side lower finisher removed</p>  <p>TCM (Transmission control module) (E101, E102 (ZD engine A/T models), E123, E124 (TB48 engine A/T models))</p>	<p>N NATS IMMU locates behind cooling unit</p>  <p>Cooling unit</p>

CEL583M

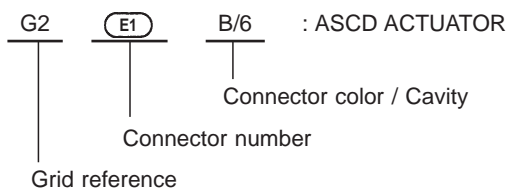
LOCATION OF ELECTRICAL UNITS/WAGON AND HARDTOP MODELS

NOTE

HARNESS LAYOUT

How to Read Harness Layout

Example:



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

- Main Harness
- Engine Room Harness
- Body Harness

To use the grid reference

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

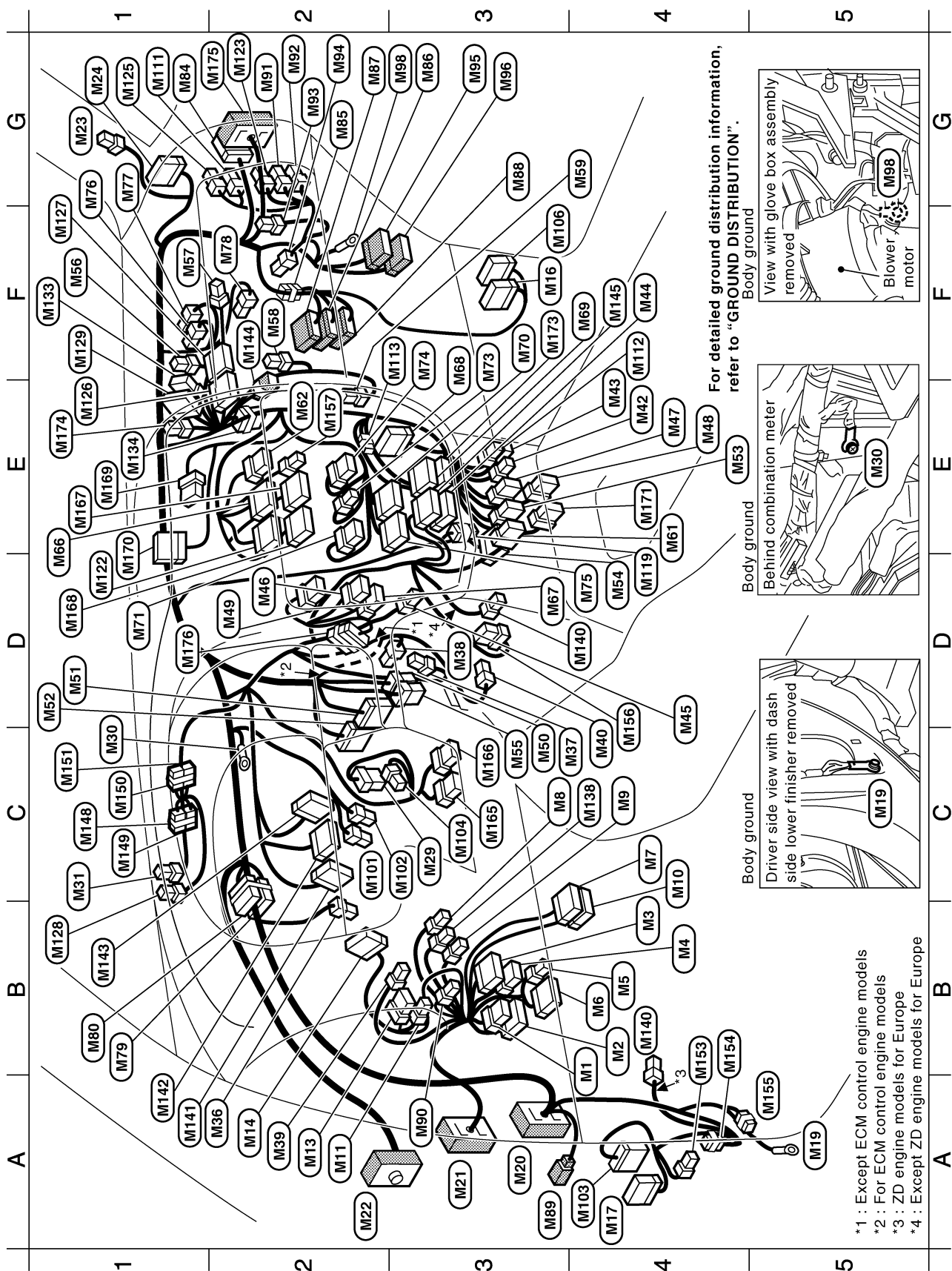
CONNECTOR SYMBOL

Main symbols of connector (in Harness Layout) are indicated in the below.

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
● Cavity: Less than 4 ● Relay connector				
● Cavity: From 5 to 8				
● Cavity: More than 9	—	—		
● Ground terminal etc.	—			

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Main Harness/LHD Models



TEL071V

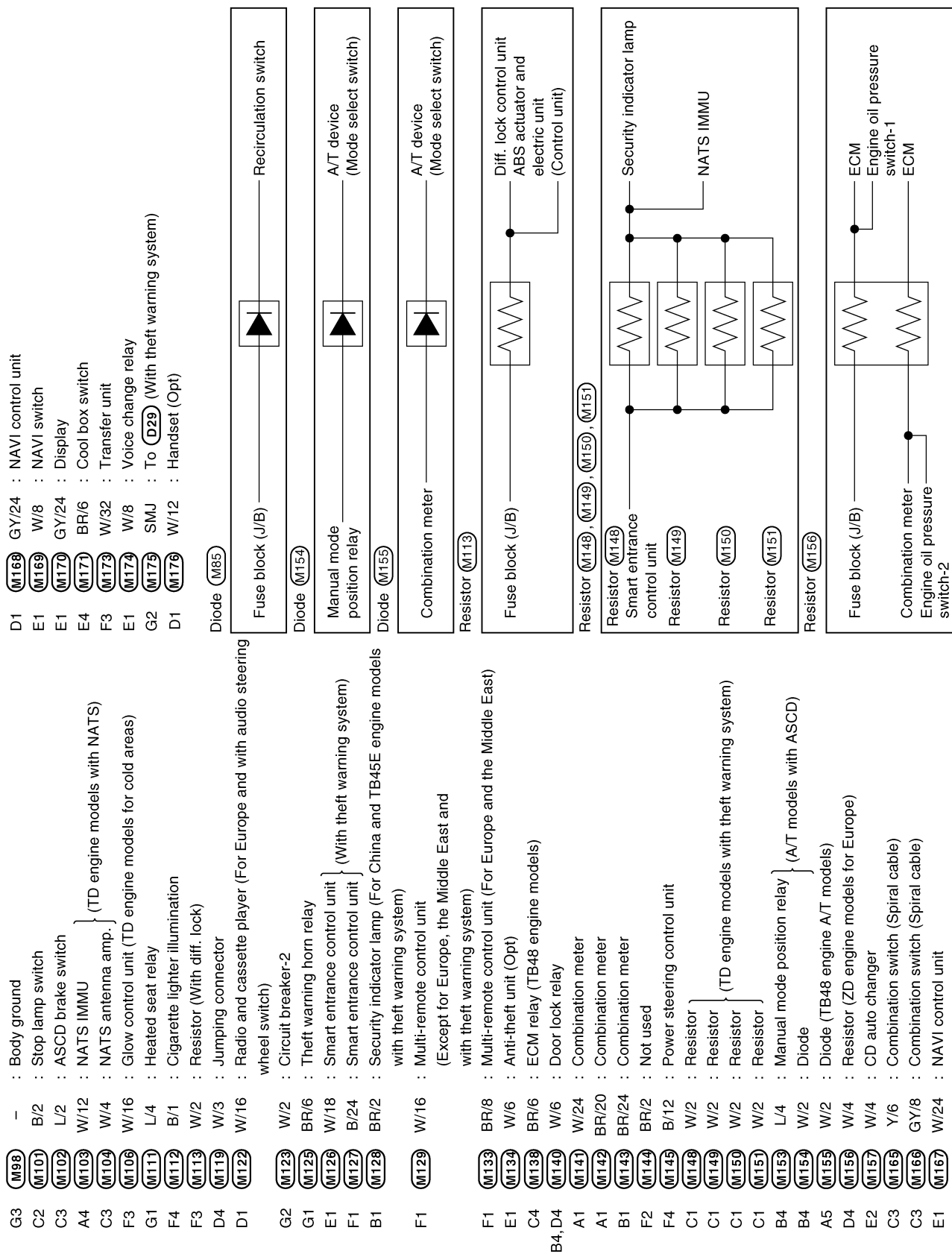
HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Main Harness/LHD Models (Cont'd)

B4	(M1)	W/8	: Fuse block (J/B)	D1	(M52)	W/24	: To (F7)	(ECM control engine models)
B4	(M2)	BR/16	: Fuse block (J/B)	E4	(M53)	W/8	: Rear heater front switch	
B4	(M3)	GY/16	: Fuse block (J/B)	D4	(M54)	Y/20	: Air bag diagnosis sensor unit	
B4	(M4)	GY/8	: Fuse block (J/B)	C3	(M55)	W/8	: To (F35)	(TB48 engine models for Europe)
B4	(M5)	B/2	: Fuse block (J/B)	F1	(M56)	B/2	: Sunload sensor (With front auto A/C)	
B4	(M6)	W/12	: Fuse block (J/B)	F1	(M57)	Y/2	: Air bag module (Passenger side) (With dual air bag system)	
C4	(M7)	GY/14	: Data link connector (With CONSULT)	F2	(M58)	W/2	: Intake sensor (With front auto A/C)	
C3	(M8)	L/4	: ECM relay (TB45E engine models)	G4	(M59)	W/3	: Thermo control amp. (With front manual A/C)	
C4	(M9)	BR/6	: ECM relay (ZD engine models)	E4	(M61)	BR/8	: Rear cooler front switch	
C4	(M10)	W/16	: Data link connector (With CONSULT-II)	E2	(M62)	W/6	: Radio and cassette player	
A2	(M11)	W/4	: Headlamp aiming switch (For the Middle East)	E1	(M66)	W/10	: Radio and cassette player	
A2	(M13)	W/6	: Heat up switch	D3	(M67)	BR/8	: Diff. lock switch	
A2	(M14)	W/10	: Door mirror remote control switch	F3	(M68)	B/12	: Diff. lock control unit	
F3	(M16)	W/12	: Glow control unit (TD engine models except for cold areas)	F4	(M69)	BR/16	: Sub fuel tank control unit	
A4	(M17)	BR/24	: ASCD control unit	F3	(M70)	GY/16	: A/C auto amp. (With front auto A/C)	
A5	(M19)	-	: Body ground	D1	(M71)	W/6	: Fan switch	
A3	(M20)	SMJ	: To (B19)	F3	(M73)	W/3	: Fan switch illumination	{ (With front manual A/C)
A3	(M21)	SMJ	: To (E127)	F3	(M74)	W/8	: Recirculation switch, A/C switch	
A2	(M22)	SMJ	: To (D1)				(Via sub-harness)	
G1	(M23)	W/3	: Tweeter RH					
G1	(M24)	W/10	: To (R1)	D4	(M75)	GY/20	: A/C auto amp.	{ (With front auto A/C)
C3	(M29)	W/8	: NATS IMMU (With NATS except TD engine models)	G1	(M76)	W/4	: Intake door motor	
C1	(M30)	-	: Body ground	G1	(M77)	W/4	: Intake door motor (With front manual A/C)	
C1	(M31)	W/2	: Security indicator lamp (With NATS except for China and TB45E engine models with theft warning system)	F2	(M78)	W/4	: Fan control amp. (With front auto A/C)	
				B1	(M79)	W/20	: Joint connector-1	
				B1	(M80)	B/12	: Joint connector-2	
A2	(M36)	L/2	: ASCD clutch switch (M/T models with ASCD)	G1	(M84)	W/18	: To (D21)	(Without theft warning system)
C4	(M37)	B/3	: Combination flasher unit	G2	(M85)	W/2	: Diode (With front manual A/C)	
D3	(M38)	W/3	: Mode door motor (With front auto A/C)	G3	(M86)	W/12	: To (E104)	
A2	(M39)	W/3	: Illumination control switch (With illumination control switch)	G2	(M87)	W/16	: To (E105)	
C4	(M40)	W/3	: Air mix door motor (With front auto A/C)	G3	(M88)	W/24	: To (E106)	
E4	(M42)	B/2	: Cigarette lighter	A3	(M89)	BR/1	: To (B58)	(With rear power socket)
E4	(M43)	B/2	: Front power socket	A3	(M90)	L/4	: Fuel pump relay (Gasoline engine models)	
F4	(M44)	W/12	: Stabilizer control unit	G2	(M91)	L/4	: Power window relay	
D4	(M45)	W/2	: In-vehicle sensor (With front auto A/C)	G2	(M92)	W/2	: Circuit breaker-1	
D2	(M46)	W/6	: Rear window defogger switch	G2	(M93)	BR/4	: Blower resistor (With front manual A/C)	
E4	(M47)	W/6	: Wiper deicer switch	G2	(M94)	W/2	: Blower motor	
E4	(M48)	GY/8	: Sub fuel tank switch	G3	(M95)	W/10	: To (B104)	
D2	(M49)	W/8	: Hazard switch	G3	(M96)	W/16	: To (B103)	
C3	(M50)	W/6	: To (F5)					
			(TB48 engine models except for Europe, TB45E and ZD engine models)					
D1	(M51)	W/16	: To (F6)					
			(TB48 and ZD engine models)					

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Main Harness/LHD Models (Cont'd)



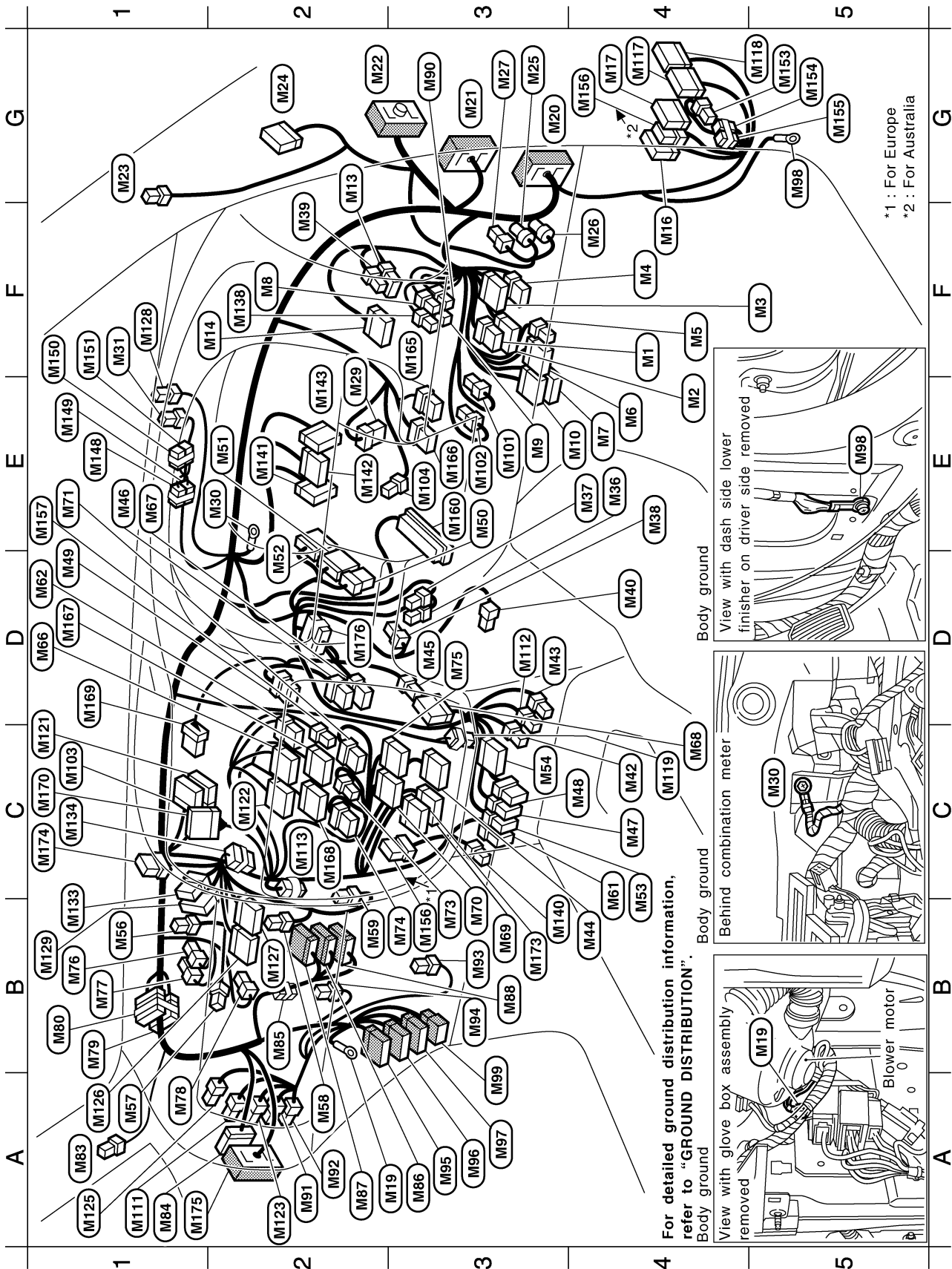
TEL073V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

NOTE

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Main Harness/RHD Models



TEL074V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

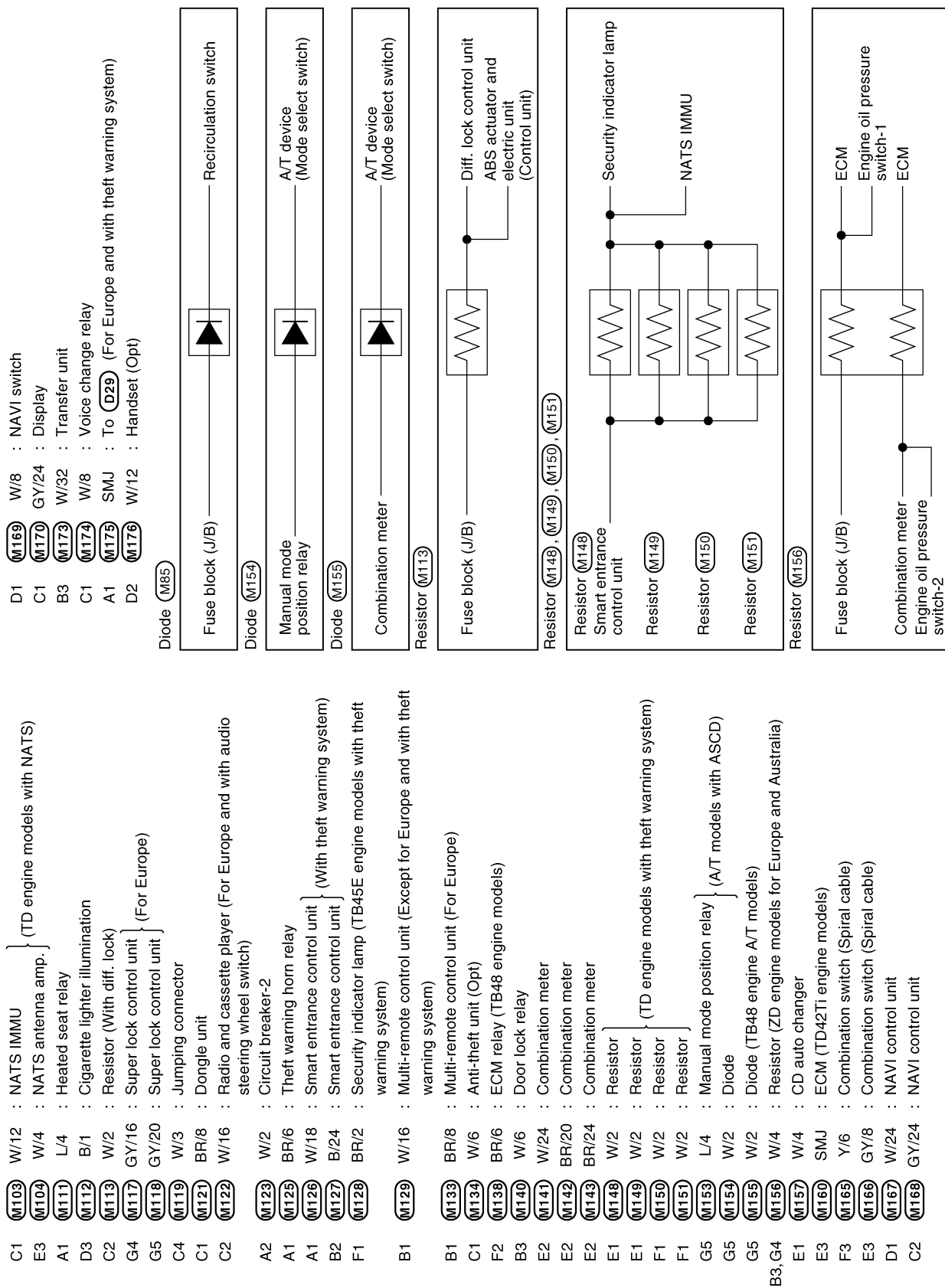
Main Harness/RHD Models (Cont'd)

F4	(M1)	W/8	: Fuse block (J/B)	E2	(M51)	W/16	: To (F6)	(TB48 and ZD engine models)
E4	(M2)	BR/16	: Fuse block (J/B)	D2	(M52)	W/24	: To (F7)	(Except TD engine models)
F5	(M3)	GY/16	: Fuse block (J/B)	C4	(M53)	W/8	: Rear heater front switch	
F4	(M4)	GY/8	: Fuse block (J/B)	C3	(M54)	Y/20	: Air bag diagnosis sensor unit	
F4	(M5)	B/2	: Fuse block (J/B)	B1	(M56)	B/2	: Sunload sensor (With front auto A/C)	
E4	(M6)	W/12	: Fuse block (J/B)	A1	(M57)	Y/2	: Air bag module (Passenger side) (With dual air bag system)	
E4	(M7)	GY/14	: Data link connector (With CONSULT)	A2	(M58)	W/2	: Intake sensor (With front auto A/C)	
F2	(M8)	L/4	: ECM relay (TB45E and TD42Ti engine models)	B2	(M59)	W/3	: Thermo control amp. (With front manual A/C)	
E3	(M9)	BR/6	: ECM relay (ZD engine models)	C4	(M61)	BR/8	: Rear cooler front switch	
E4	(M10)	W/16	: Data link connector (With CONSULT-II)	D1	(M62)	W/6	: Radio and cassette player	
G2	(M13)	W/6	: Heat up switch	D1	(M66)	W/16	: Radio and cassette player (For Europe)	
F2	(M14)	W/10	: Door mirror remote control switch	E1	(M67)	BR/8	: Diff. lock switch	
F4	(M16)	W/12	: Glow control unit	C4	(M68)	B/12	: Diff. lock control unit	
G4	(M17)	BR/24	: ASCD control unit	B3	(M69)	BR/16	: Sub fuel tank control unit	
A3	(M19)	-	: Body ground	B3	(M70)	GY/16	: A/C auto amp. (With front auto A/C)	
G3	(M20)	SMJ	: To (B19)	E1	(M71)	W/6	: Fan switch	
G3	(M21)	SMJ	: To (E127)	B3	(M73)	W/3	: Fan switch illumination	
G2	(M22)	SMJ	: To (D1)	B3	(M74)	W/8	: Recirculation switch, A/C switch (Via sub-harness)	(With front manual A/C)
G1	(M23)	W/3	: Tweeter RH	D3	(M75)	GY/20	: A/C auto amp. }	(With front auto A/C)
G2	(M24)	W/10	: To (R1)	B1	(M76)	W/4	: Intake door motor }	(With front auto A/C)
G3	(M25)	BR/3	: Accelerator pedal position sensor	B1	(M77)	W/4	: Intake door motor (With front manual A/C)	
F4	(M26)	GY/3	: Accelerator pedal position switch	A1	(M78)	W/4	: Fan control amp. (With front auto A/C)	
G3	(M27)	W/3	: Accelerator switch (F/C)	B1	(M79)	W/20	: Joint connector-1	
E2	(M29)	W/8	: NATS IMMU (With NATS except TD engine models)	B1	(M80)	B/12	: Joint connector-2	
E2	(M30)	-	: Body ground	A1	(M83)	W/3	: Tweeter LH	
F1	(M31)	W/2	: Security indicator lamp	A1	(M84)	W/18	: To (D21)	(Except for Europe and with theft warning system)
			(With NATS except TB45E engine models with theft warning system)	B2	(M85)	W/2	: Diode (With front manual A/C)	
E4	(M36)	L/2	: ASCD clutch switch (M/T models with ASCD)	A3	(M86)	BR/16	: To (E104)	
E4	(M37)	B/3	: Combination flasher unit	A2	(M87)	W/16	: To (E105)	
E4	(M38)	W/3	: Mode door motor (With front auto A/C)	B3	(M88)	W/24	: To (E106)	
F2	(M39)	W/3	: Illumination control switch (With illumination control switch)	G3	(M90)	L/4	: Fuel pump relay (Gasoline engine models)	
D4	(M40)	W/3	: Air mix door motor (With front auto A/C)	A2	(M91)	L/4	: Power window relay	
C4	(M42)	B/2	: Cigarette lighter	A2	(M92)	W/2	: Circuit breaker-1	
D3	(M43)	B/2	: Front power socket	B3	(M93)	BR/4	: Blower resistor (With front manual A/C)	
B4	(M44)	W/12	: Stabilizer control unit	B3	(M94)	W/2	: Blower motor	
D3	(M45)	W/2	: In-vehicle sensor (With front auto A/C)	A3	(M95)	W/16	: To (B101)	
E1	(M46)	W/6	: Rear window defogger switch	A3	(M96)	W/20	: To (B102)	
C4	(M47)	W/6	: Wiper deicer switch	A3	(M97)	W/16	: To (B103)	
C4	(M48)	GY/8	: Sub fuel tank switch	G5	(M98)	-	: Body ground	
D1	(M49)	W/8	: Hazard switch	A3	(M99)	W/6	: To (B104)	
E3	(M50)	W/6	: To (F5) (Except to engine models)	E3	(M101)	B/2	: Stop lamp switch	
				E3	(M102)	L/2	: ASCD brake switch	

TEL075V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Main Harness/RHD Models (Cont'd)



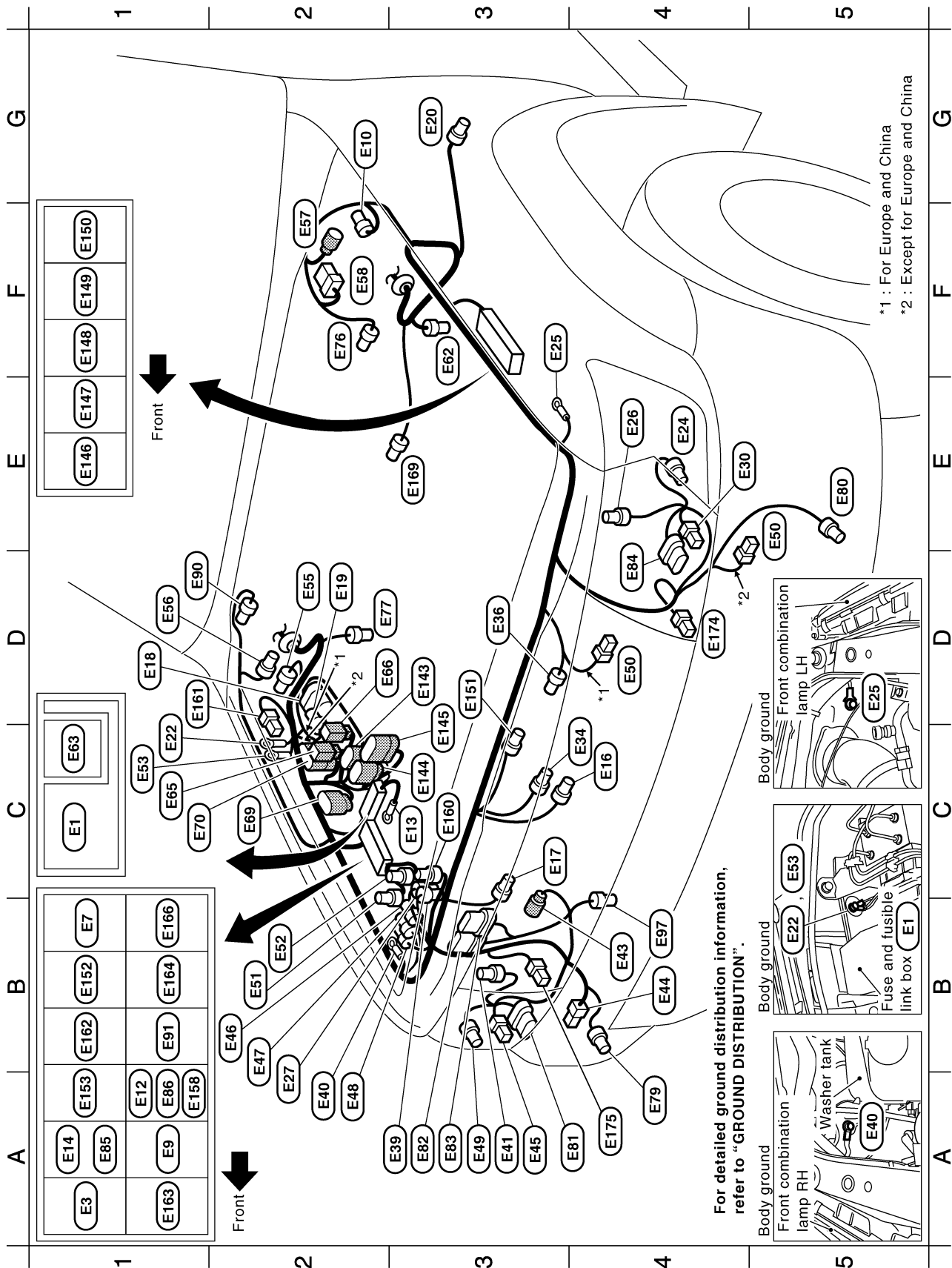
HARNESS LAYOUT/WAGON AND HARDTOP MODELS

NOTE

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models

GASOLINE ENGINE MODELS



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

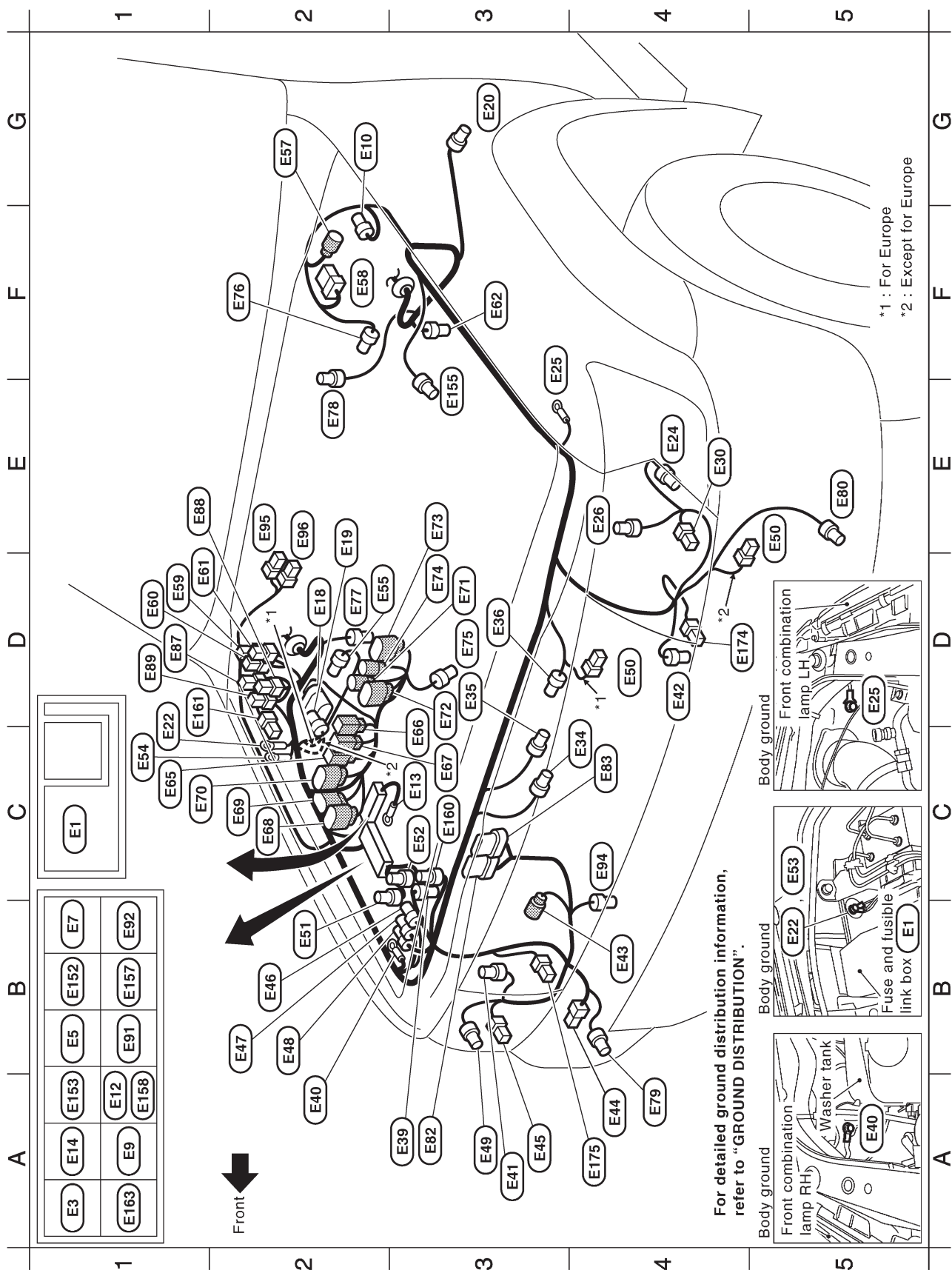
C1	E1	-	: Fuse and fusible link box	C1	E65	B/2	: To E204 (A/T models)
A1	E3	GY/6	: Transfer neutral relay	D2	E66	L/2	: To E203
B1	E7	-	: Fuse block	C2	E69	GY/8	: To E202
A1	E9	W/3	: Horn relay	C1	E70	GY/10	: To E201
G2	E10	SB/4	: Diff. lock solenoid	F2	E76	GY/2	: Brake fluid level switch
A1	E12	L/4	: Wiper deicer relay	D2	E77	GY/2	: Front wheel sensor RH (With ABS)
C3	E13	-	: Battery (+)	A4	E79	-/2	: Front fog lamp RH
A1	E14	BR/6	: Headlamp washer timer	E5	E80	-/2	: Front fog lamp LH
C4	E16	B/2	: Ambient sensor (With front auto A/C)	A4	E81	GY/6	: Front combination lamp RH (With xenon headlamp)
C3	E17	GY/4	: Cooling fan motor-2	A3	E82	GY/8	: Daytime light control unit
D1	E18	SMJ	: ABS actuator and electric unit	A3	E83	GY/6	: Daytime light control unit
D2	E19	GY/3	: Power antenna	D4	E84	GY/3	: Front combination lamp LH
G3	E20	-/2	: Side turn signal lamp LH	A1	E85	L/4	: HID relay RH
C1	E22	-	: Body ground (With ABS)	A1	E86	L/4	: HID relay LH
E4	E24	GY/2	: Front combination lamp LH (With halogen headlamp)	D1	E90	GY/2	: Cool box solenoid valve (Wagon models with cool box for the Middle East)
F3	E25	-	: Body ground	B1	E91	BR/6	: Rear window defogger relay
E4	E26	B/3	: Headlamp aiming motor LH	B4	E97	GY/2	: Engine coolant temperature switch (Rear cooler)
A2	E27	B/3	: Refrigerant pressure sensor (TB48 engine models for Europe)				(TB45E engine models with rear cooler for the Middle East)
E4	E30	B/3	: Front combination lamp LH (With halogen headlamp)	D3	E143	GY/8	: To E239
C4	E34	B/2	: Ambient air temperature sensor	C3	E144	BR/8	: To E234
			(With compass and thermometer)	C3	E145	GY/10	: To E236
D3	E36	GY/4	: Cooling fan motor-1	E1	E146	B/5	: Shift lock relay
A3	E39	B/2	: Dual-pressure switch (Except TB48 engine models for Europe)	E1	E147	BR/6	: Park/Neutral position relay-3
A2	E40	-	: Body ground	F1	E148	L/4	: Throttle control motor relay
A3	E41	B/3	: Headlamp aiming motor RH	F1	E149	L/4	: Back-up lamp relay
B4	E43	GY/2	: To E181 (With electrical winch)	F1	E150	L/4	: A/T pv ign relay
B4	E44	B/1	: Horn low	D3	E151	BR/2	: Ambient air temperature switch (TB48 engine models with front manual A/C and TB45E engine models with front manual A/C and rear cooler for the Middle East)
A3	E45	B/3	: Front combination lamp RH (With halogen headlamp)				
B2	E46	GY/2	: Front washer motor	B1	E152	L/4	: Front fog lamp relay
B2	E47	G/2	: Rear washer motor	A1	E153	L/4	: Rear fog lamp relay
A2	E48	GY/2	: Headlamp washer motor	A1	E158	BR/6	: Theft warning lamp relay
A3	E49	GY/2	: Front combination lamp RH (With halogen headlamp)	C3	E160	GY/2	: Hood switch
D4,E5	E50	B/1	: Horn high	D1	E161	B/1	: Theft warning horn
B2	E51	BR/2	: Park/Neutral position relay-1	B1	E162	L/4	: Air conditioner relay
B2	E52	BR/2	: Park/Neutral position relay-1	A1	E163	BR/6	: Cooling fan relay-1
C1	E53	-	: Body ground	B1	E164	BR/6	: Cooling fan relay-2
D2	E55	-/2	: Side turn signal lamp RH	B1	E166	BR/6	: Cooling fan relay-3
D1	E56	GY/4	: ASCD pump	E3	E169	W/1	: Oxygen sensor (TB45E engine models)
F2	E57	B/2	: Wiper deicer	D4	E174	B/2	: Front combination lamp LH
F2	E58	W/6	: Front wiper motor	A4	E175	B/2	: Front combination lamp RH
F3	E62	BR/2	: Front wheel sensor LH (With ABS)				
C1	E63	B/5	: Park/Neutral position relay-2 (A/T models with ASCD)				

TEL078V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

DIESEL ENGINE MODELS



TEL079V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

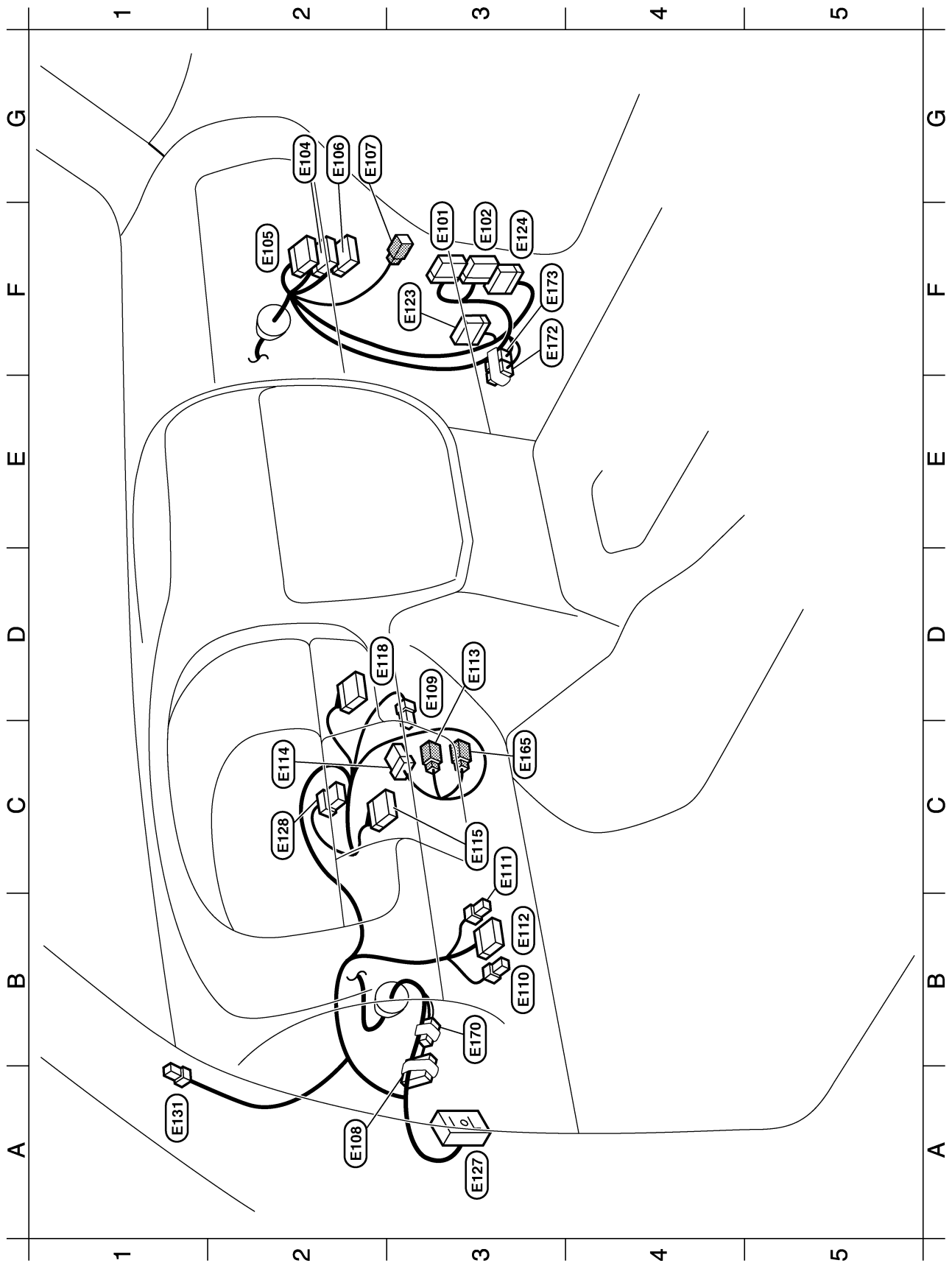
C1	(E1)	-	: Fuse and fusible link box	D1	(E61)	W/1	: Glow relay-1
A1	(E3)	GY/6	: Transfer neutral relay	F3	(E62)	BR/2	: Front wheel sensor LH (With ABS)
B1	(E5)	BR/6	: Air conditioner relay	C1	(E65)	B/2	: To (E204)
B1	(E7)	-	: Fuse block	C3	(E66)	L/2	: To (E203)
A1	(E9)	W/3	: Horn relay	C3	(E67)	R/2	: To (E223)
G2	(E10)	SB/4	: Diff. lock solenoid	C2	(E68)	SB/8	: To (E222) (TD engine models)
A1	(E12)	L/4	: Wiper deicer relay	C2	(E69)	GY/8	: To (E202)
C3	(E13)	-	: Battery (+)	C1	(E70)	GY/10	: To (E201)
A1	(E14)	BR/6	: Headlamp washer timer	D3	(E71)	GY/3	: Revolution sensor
D2	(E18)	SMJ	: ABS actuator and electric unit	D3	(E72)	BR/8	: A/T solenoid valve
E2	(E19)	GY/3	: Power antenna	E3	(E73)	GY/8	: Park/Neutral position switch
G3	(E20)	-/2	: Side turn signal lamp LH	D3	(E74)	GY/2	: Park/Neutral position switch
D1	(E22)	-	: Body ground (With ABS)	D3	(E75)	BR/2	: Fuel filter switch (Except for Europe)
E4	(E24)	GY/2	: Front combination lamp LH	F2	(E76)	GY/2	: Brake fluid level switch
F3	(E25)	-	: Body ground	D2	(E77)	GY/2	: Front wheel sensor RH (With ABS)
E4	(E26)	B/3	: Headlamp aiming motor LH	E2	(E78)	GY/2	: Dropping resistor (A/T models)
E4	(E30)	B/3	: Front combination lamp LH	A4	(E79)	-/2	: Front fog lamp RH
C4	(E34)	B/2	: Ambient air temperature sensor (With compass and thermometer)	E5	(E80)	-/2	: Front fog lamp LH
D3	(E35)	B/2	: Ambient sensor (With front auto A/C)	A3	(E82)	GY/8	: Daytime light control unit
D3	(E36)	GY/4	: Cooling fan motor-1	C4	(E83)	GY/6	: Daytime light control unit
A3	(E39)	B/2	: Dual-pressure switch	D1	(E87)	G/2	: Glow relay-2
A2	(E40)	-	: Body ground	E1	(E88)	W/1	: Glow relay-2
A3	(E41)	B/3	: Headlamp aiming motor RH	D1	(E89)	W/1	: Glow relay-2
D4	(E42)	GY/2	: Engine coolant temperature switch-2 (TD engine models with A/C)	B1	(E91)	BR/6	: Rear window defogger relay
B4	(E43)	GY/2	: To (E181) (With electrical winch)	B1	(E92)	B/5	: A/C cut relay
A4	(E44)	B/1	: Horn low	C4	(E94)	GY/2	: Engine coolant temperature switch-1
A3	(E45)	B/3	: Front combination lamp RH	E2	(E95)	B/1	: IACV-FICD solenoid valve
B2	(E46)	GY/2	: Front washer motor	E2	(E96)	B/1	: IACV-FICD solenoid valve
B2	(E47)	G/2	: Rear washer motor	B1	(E152)	L/4	: Front fog lamp relay
B2	(E48)	GY/2	: Headlamp washer motor	A1	(E153)	L/4	: Rear fog lamp relay
A3	(E49)	GY/2	: Front combination lamp RH	E3	(E155)	B/2	: Exhaust gas control valve control solenoid valve
D4,E5	(E50)	B/1	: Horn high				: (ZD engine models)
B2	(E51)	BR/2	: Park/Neutral position relay-1	B1	(E157)	B/5	: Shift rock relay (A/T models)
C3	(E52)	BR/2	: Park/Neutral position relay-1	A1	(E158)	BR/6	: Theft warning lamp relay
C1	(E54)	-	: Body ground	C3	(E160)	GY/2	: Hood switch
D2	(E55)	-/2	: Side turn signal lamp RH	D1	(E161)	B/1	: Theft warning horn
G2	(E57)	B/2	: Wiper deicer	A1	(E163)	BR/6	: Cooling fan relay-1
F2	(E58)	W/6	: Front wiper motor	D4	(E174)	B/2	: Front combination lamp LH
D1	(E59)	G/2	: Glow relay-1	A4	(E175)	B/2	: Front combination lamp RH
D1	(E60)	W/1	: Glow relay-1				

TEL080V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

PASSENGER COMPARTMENT

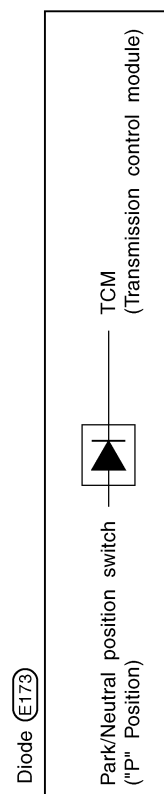
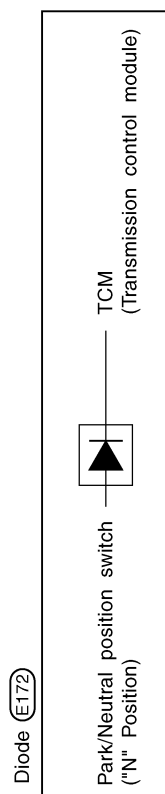
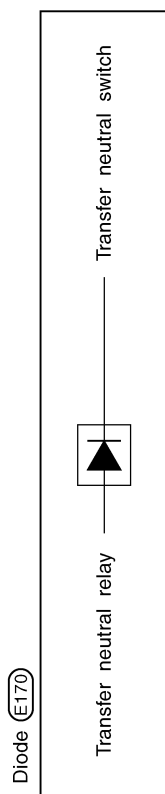
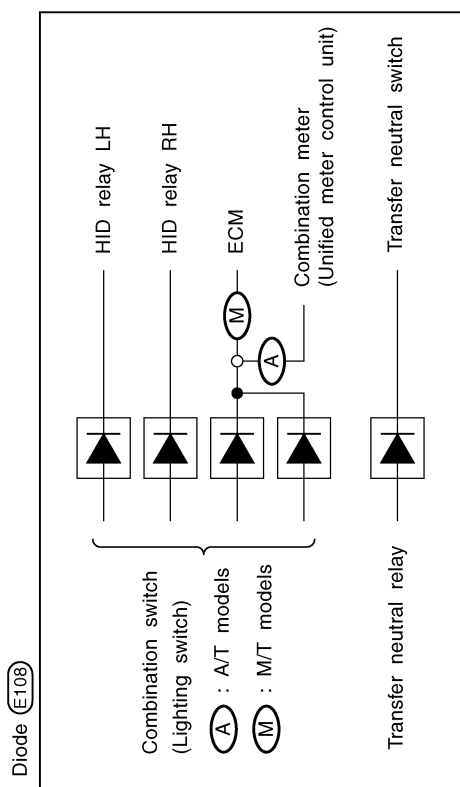


TEL081V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/LHD Models (Cont'd)

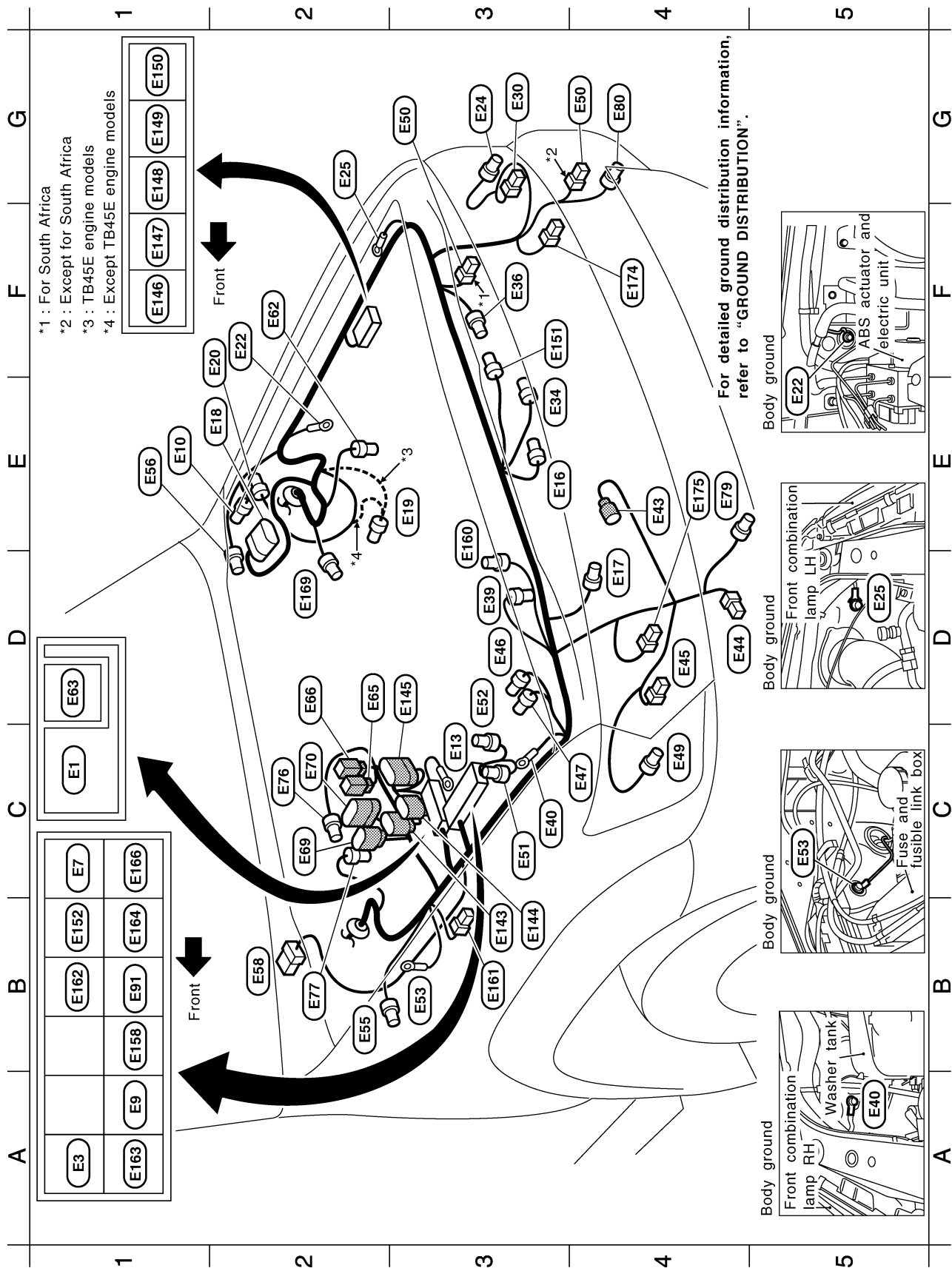
F3	(E101)	W/24	: TCM (Transmission control module)	{ (ZD engine A/T models)
F3	(E102)	GY/24	: TCM (Transmission control module)	{ (ZD engine A/T models)
G2	(E104)	W/12	: To (M86)	
F2	(E105)	W/16	: To (M87)	
G2	(E106)	W/24	: To (M88)	
G2	(E107)	W/2	: To (E101)	
A2	(E108)	L/10	: Diode (TB48 engine models)	
D3	(E109)	B/1	: Horn switch (Without air bag)	
B3	(E110)	B/2	: Fuse block (J/B)	
C3	(E111)	W/4	: Fuse block (J/B)	
B3	(E112)	W/16	: Fuse block (J/B)	
D3	(E113)	BR/2	: Key switch (Except TD engine models with NATS)	
C2	(E114)	W/6	: Ignition switch	
C3	(E115)	BR/12	: Combination switch (Lighting switch)	
D2	(E118)	GY/12	: Combination switch (Wiper switch)	
F3	(E123)	W/24	: TCM (Transmission control module)	{ (TB48 engine A/T models)
F3	(E124)	GY/24	: TCM (Transmission control module)	{ (TB48 engine A/T models)
A3	(E127)	SMJ	: To (M21)	
C2	(E128)	W/8	: Combination switch (Fog lamp switch)	
A1	(E131)	W/3	: Tweeter LH	
C3	(E165)	W/2	: Key switch (TD engine models with NATS)	
B3	(E170)	W/2	: Diode (Except TB48 engine models)	
F3	(E172)	W/2	: Diode	{ (ZD engine A/T models)
F3	(E173)	W/2	: Diode	{ (ZD engine A/T models)



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models

GASOLINE ENGINE MODELS



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models (Cont'd)

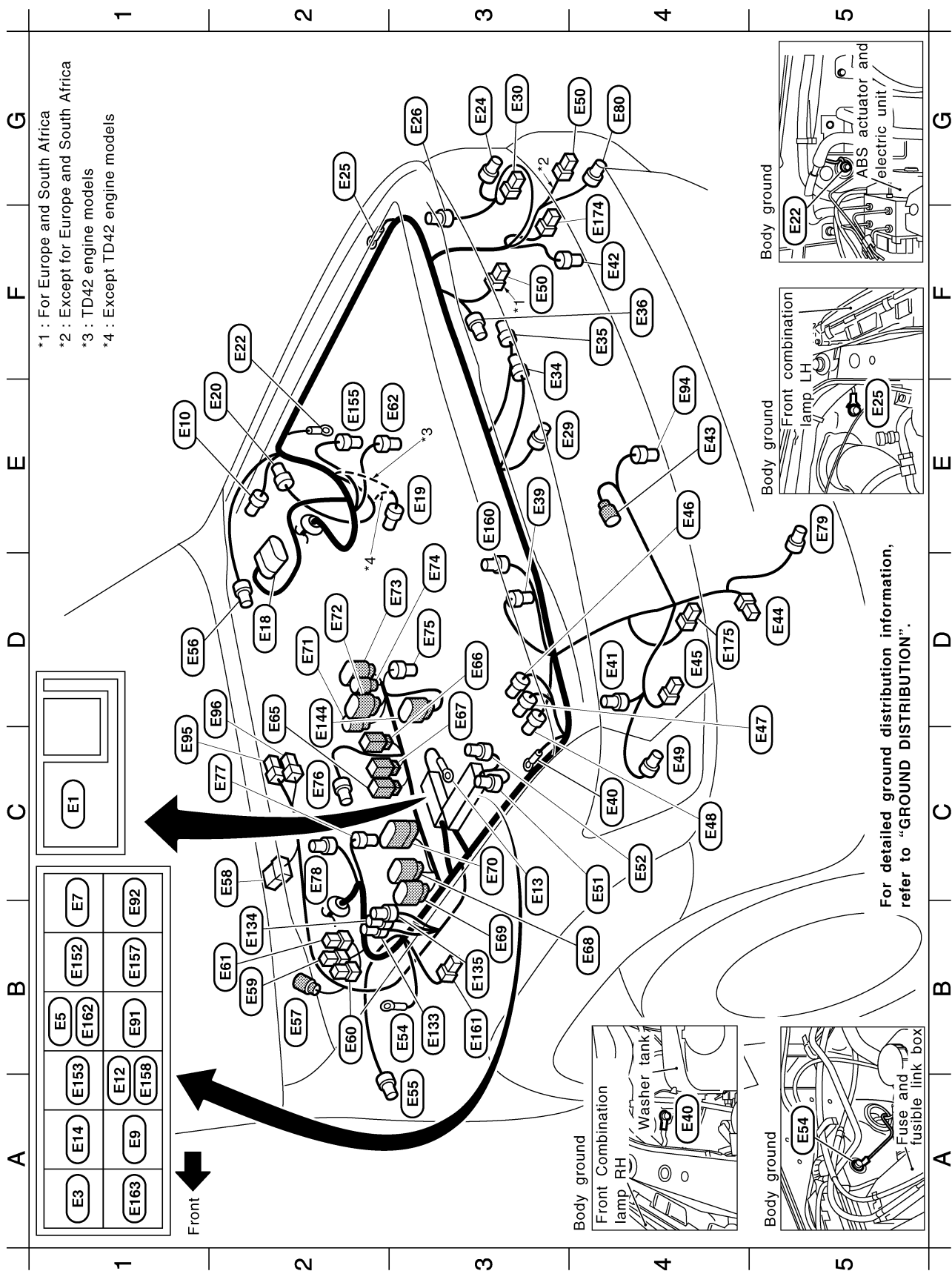
C1	(E1)	-	: Fuse and fusible link box	B1	(E91)	BR/6	: Rear window defogger relay	(A/T models)
A1	(E3)	GY/6	: Transfer neutral relay	B3	(E143)	GY/8	: To (E233)	
C1	(E7)	-	: Fuse block	B3	(E144)	BR/8	: To (E234)	
A1	(E9)	W/3	: Horn relay	D3	(E145)	GY/10	: To (E236)	
E1	(E10)	SB/4	: Diff. lock solenoid	F1	(E146)	B/5	: Shift lock relay	
C3	(E13)	-	: Battery (+)	F1	(E147)	BR/6	: Park/Neutral position relay-3	
E3	(E16)	B/2	: Ambient sensor (With front auto A/C)	G1	(E148)	L/4	: Throttle control motor relay	
D4	(E17)	GY/4	: Cooling fan motor-2	G1	(E149)	L/4	: Back-up lamp relay	
E2	(E18)	SMJ	: ABS actuator and electric unit	G1	(E150)	L/4	: A/T pv ign relay	
E3	(E19)	SB/4	: Power antenna	F3	(E151)	BR/2	: Ambient air temperature switch	
F2	(E20)	-/2	: Side turn signal lamp LH				(TB48 engine models with front manual A/C)	
F2	(E22)	-	: Body ground (With ABS)	B1	(E152)	L/4	: Front fog lamp relay	
G3	(E24)	GY/2	: Front combination lamp LH	B1	(E158)	BR/6	: Theft warning lamp relay	
G2	(E25)	-	: Body ground	E3	(E160)	GY/2	: Hood switch	
G3	(E30)	B/3	: Front combination lamp LH	B3	(E161)	B/1	: Theft warning horn	
E3	(E34)	B/2	: Ambient air temperature sensor (With compass and thermometer)	B1	(E162)	L/4	: Air conditioner relay	
F3	(E36)	GY/4	: Cooling fan motor-1	A1	(E163)	BR/6	: Cooling fan relay-1	
D3	(E39)	B/2	: Dual-pressure switch	B1	(E164)	BR/6	: Cooling fan relay-2	
C3	(E40)	-	: Body ground	C1	(E166)	BR/6	: Cooling fan relay-3	
E4	(E43)	GY/2	: To (E181) (With electrical winch)	D2	(E169)	W/1	: Oxygen sensor (TB45E engine models)	
D4	(E44)	B/1	: Horn low	F4	(E174)	B/2	: Front combination lamp LH	
D4	(E45)	B/3	: Front combination lamp RH	E4	(E175)	B/2	: Front combination lamp RH	
D3	(E46)	GY/2	: Front washer motor					
C4	(E47)	G/2	: Rear washer motor					
C4	(E49)	GY/2	: Front combination lamp RH					
G3,G4	(E50)	B/1	: Horn high					
C3	(E51)	BR/2	: Park/Neutral position relay-1					
D3	(E52)	BR/2	: Park/Neutral position relay-1					
B3	(E53)	-	: Body ground					
B2	(E55)	-/2	: Side turn signal lamp RH					
E1	(E56)	GY/4	: ASCD pump					
B2	(E58)	W/6	: Front wiper motor					
F2	(E62)	BR/2	: Front wheel sensor LH (With ABS)					
D1	(E63)	B/5	: Park/Neutral position relay-2 (A/T models with ASCD)					
D2	(E65)	B/2	: To (E204) (A/T models)					
D2	(E66)	L/2	: To (E203)					
C2	(E69)	GY/8	: To (E202)					
C2	(E70)	GY/10	: To (E201)					
C2	(E76)	GY/2	: Brake fluid level switch					
B2	(E77)	GY/2	: Front wheel sensor RH (With ABS)					
E4	(E79)	-/2	: Front fog lamp RH					
G4	(E80)	-/2	: Front fog lamp LH					

TEL084V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models (Cont'd)

DIESEL ENGINE MODELS



TEL085V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

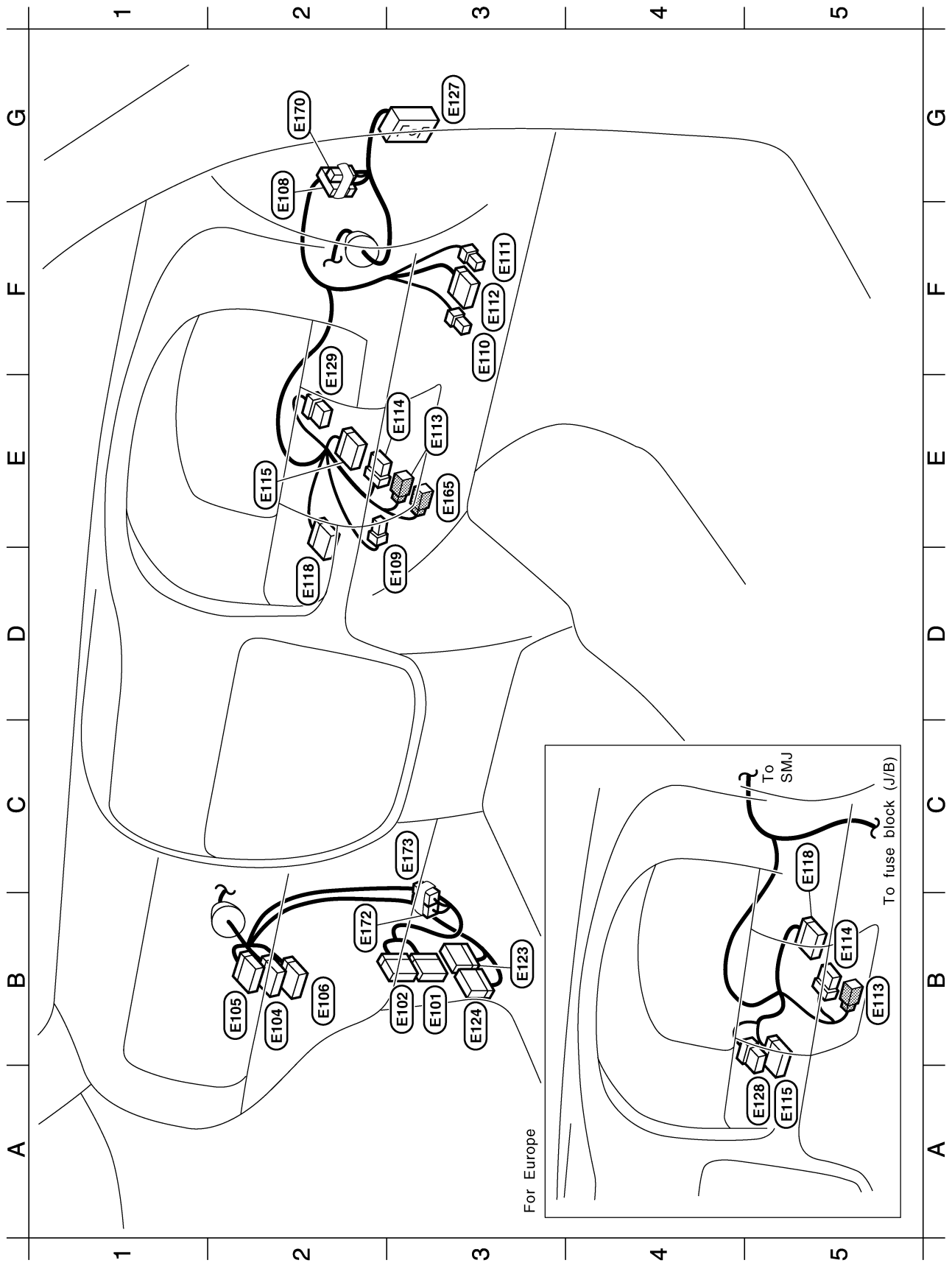
Engine Room Harness/RHD Models (Cont'd)

C1	(E1)	-	: Fuse and fusible link box	B2	(E61)	W/1	: Glow relay-1
A1	(E3)	GY/6	: Transfer neutral relay	E2	(E62)	BR/2	: Front wheel sensor LH (With ABS)
B1	(E5)	BR/6	: Air conditioner relay (TD42 and ZD engine models)	D2	(E65)	B/2	: To (E204)
B1	(E7)	-	: Fuse block	D3	(E66)	L/2	: To (E203)
A1	(E9)	W/3	: Horn relay	D3	(E67)	R/2	: To (E223)
E1	(E10)	SB/4	: Diff. lock solenoid	B4	(E68)	SB/8	: To (E222) (TD engine models)
A1	(E12)	L/4	: Wiper deicer relay	B3	(E69)	GY/8	: To (E202)
C3	(E13)	-	: Battery (+)	C3	(E70)	GY/10	: To (E201)
A1	(E14)	BR/6	: Headlamp washer timer	D2	(E71)	GY/3	: Revolution sensor
D2	(E18)	SMJ	: ABS actuator and electric unit	D2	(E72)	BR/8	: A/T solenoid valve
E3	(E19)	SB/4	: Power antenna	D3	(E73)	GY/8	: Park/Neutral position switch
E2	(E20)	BR/2	: Side turn signal lamp LH	D3	(E74)	GY/2	: Park/Neutral position switch
F2	(E22)	-	: Body ground (With ABS)	D3	(E75)	BR/2	: Fuel filter switch (Except for Europe)
G3	(E24)	GY/2	: Front combination lamp LH	C2	(E76)	GY/2	: Brake fluid level switch
G2	(E25)	-	: Body ground	C2	(E77)	GY/2	: Front wheel sensor RH (With ABS)
G3	(E26)	-/3	: Headlamp aiming motor LH	C2	(E78)	GY/2	: Dropping resistor (A/T models)
E3	(E29)	B/2	: Intake air temperature sensor (TD42Ti engine models)	E5	(E79)	GY/2	: Front fog lamp RH
G3	(E30)	B/3	: Front combination lamp LH	G4	(E80)	GY/2	: Front fog lamp LH
F3	(E34)	B/2	: Ambient air temperature sensor (With compass and thermometer)	B1	(E91)	BR/6	: Rear window defogger relay
F4	(E35)	B/2	: Ambient sensor (With auto A/C)	B1	(E92)	B/5	: A/C cut relay
F4	(E36)	GY/4	: Cooling fan motor-1	E4	(E94)	GY/2	: Engine coolant temperature switch-1
E3	(E39)	B/2	: Dual-pressure switch	C1	(E95)	B/1	: IACV-FICD solenoid valve
C4	(E40)	-	: Body ground	D2	(E96)	B/1	: IACV-FICD solenoid valve
D4	(E41)	-/3	: Headlamp aiming motor RH	B3	(E133)	BR/2	: EGRC-solenoid valve
F4	(E42)	GY/2	: Engine coolant temperature switch-2 (TD engine models with A/C)	B2	(E134)	B/2	: Throttle control solenoid valve-A
E4	(E43)	GY/2	: To (E181) (With electrical winch)	B3	(E135)	G/2	: Throttle control solenoid valve-B
D5	(E44)	B/1	: Horn low	D2	(E144)	BR/8	: To (E234)
D4	(E45)	B/3	: Front combination lamp RH	B1	(E152)	L/4	: Front fog lamp relay
E4	(E46)	GY/2	: Front washer motor	A1	(E153)	L/4	: Rear fog lamp relay
D5	(E47)	G/2	: Rear washer motor	E2	(E155)	B/2	: Exhaust gas control valve control solenoid valve
C4	(E48)	GY/2	: Headlamp washer motor				(ZD engine models)
C4	(E49)	GY/2	: Front combination lamp RH	B1	(E157)	B/5	: Shift lock relay (A/T models)
F3,G4	(E50)	B/1	: Horn high	A1	(E158)	BR/6	: Theft warning lamp relay
C4	(E51)	BR/2	: Park/Neutral position relay-1	E3	(E160)	GY/2	: Hood switch
C4	(E52)	BR/2	: Park/Neutral position relay-1	B3	(E161)	B/1	: Theft warning horn
B3	(E54)	-	: Body ground	B1	(E162)	L/4	: Air conditioner relay (TD42Ti engine models)
A3	(E55)	BR/2	: Side turn signal lamp RH	A1	(E163)	BR/6	: Cooling fan relay-1
D1	(E56)	GY/4	: ASCD pump	F4	(E174)	B/2	: Front combination lamp LH
B2	(E57)	B/2	: Wiper deicer	D4	(E175)	B/2	: Front combination lamp RH
C2	(E58)	W/6	: Front wiper motor				
B2	(E59)	G/2	: Glow relay-1				
B2	(E60)	W/1	: Glow relay-1				

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models (Cont'd)

PASSENGER COMPARTMENT



TEL087V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Room Harness/RHD Models (Cont'd)

B3	E101	W/24	: TCM (Transmission control module)	(ZD engine A/T models)
B3	E102	GY/24	: TCM (Transmission control module)	
B2	E104	BR/16	: To M86	
B2	E105	W/16	: To M87	
B2	E106	W/24	: To M88	
G2	E108	L/10	: Diode (TB48 engine models)	
D3	E109	B/1	: Horn switch (Without air bag)	
F3	E110	B/2	: Fuse block (J/B)	
F3	E111	W/4	: Fuse block (J/B)	
F3	E112	W/16	: Fuse block (J/B)	
B5,E3	E113	BR/2	: Key switch (Except TD engine models with NATS)	
B5,E3	E114	W/6	: Ignition switch	
A5,E2	E115	BR/12	: Combination switch (Lighting switch)	
C5,D2	E118	GY/12	: Combination switch (Wiper switch)	
B3	E123	W/24	: TCM (Transmission control module)	(TB48 engine A/T models)
B3	E124	GY/24	: TCM (Transmission control module)	
G3	E127	SMJ	: To M21	
A5	E128	W/8	: Combination switch (Fog lamp switch for Europe)	
F2	E129	W/6	: Combination switch (Fog lamp switch except for Europe)	
E3	E165	W/2	: Key switch (TD engine models with NATS)	
G2	E170	W/2	: Diode (Except TB48 engine models)	
B2	E172	W/2	: Diode	(ZD engine A/T models)
C3	E173	W/2	: Diode	

Diode **E170**

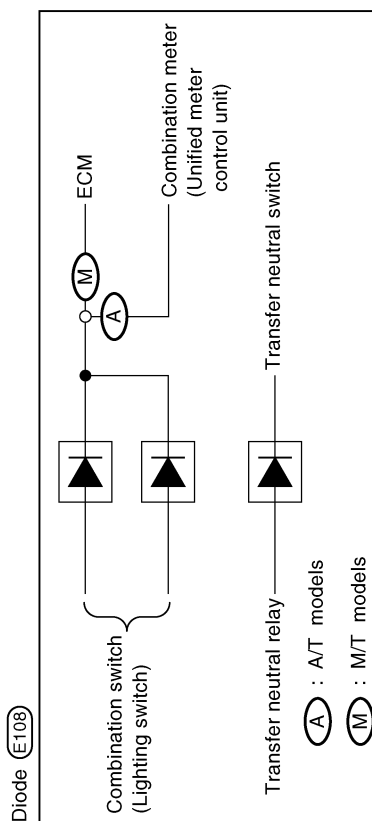
Transfer neutral relay ——— Transfer neutral switch

Diode **E172**

Park/Neutral position switch ("N" Position) ——— TCM (Transmission control module)

Diode **E173**

Park/Neutral position switch ("P" Position) ——— TCM (Transmission control module)

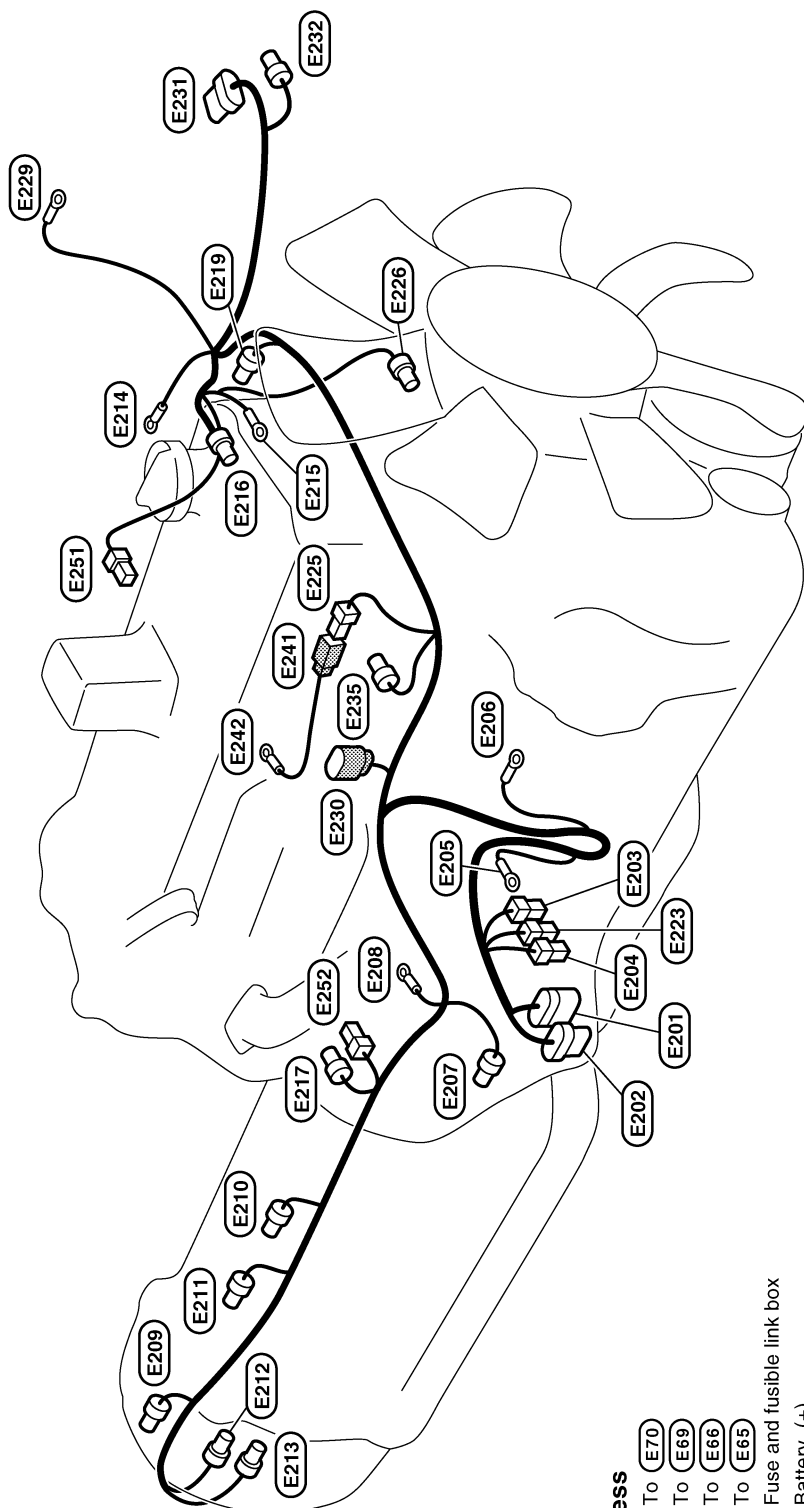


TEL088V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Engine Harness

ZD ENGINE



Engine harness

E201	GY/10	To	E70
E202	B/8	To	E69
E203	L/2	To	E66
E204	B/2	To	E65
E205	—	Fuse and fusible link box	
E206	—	Battery (+)	
E207	GY/1	Starter motor	
E208	—	Starter motor	
E209	GY/2	Vehicle speed sensor	
E210	GY/2	Back-up lamp switch	(M/T models)
E211	B/2	Park/Neutral position switch	
E212	GY/2	4WD switch	
E213	BR/2	Transfer neutral switch	
E214	—	Alternator	
E215	—	Alternator	
E216	GY/2	Alternator	
E217	GY/1	Oil pressure switch (Except for Europe and Australia)	
E219	GY/2	Engine coolant temperature sensor	
E223	R/2	To	E67
E225	B/1	To	E241

E226	B/1	Compressor
E229	—	Battery (+) (For cold areas)
E230	B/8	To (F12)
E231	B/6	Mass air flow sensor
E232	BR/2	Variable nozzle turbocharger control solenoid valve
E235	B/1	Thermal transmitter
E251	B/1	Engine oil pressure switch-2
E252	B/1	Engine oil pressure switch-1

Glow sub-harness

E241	B/1	To	E225
E242	—	Glow plug	

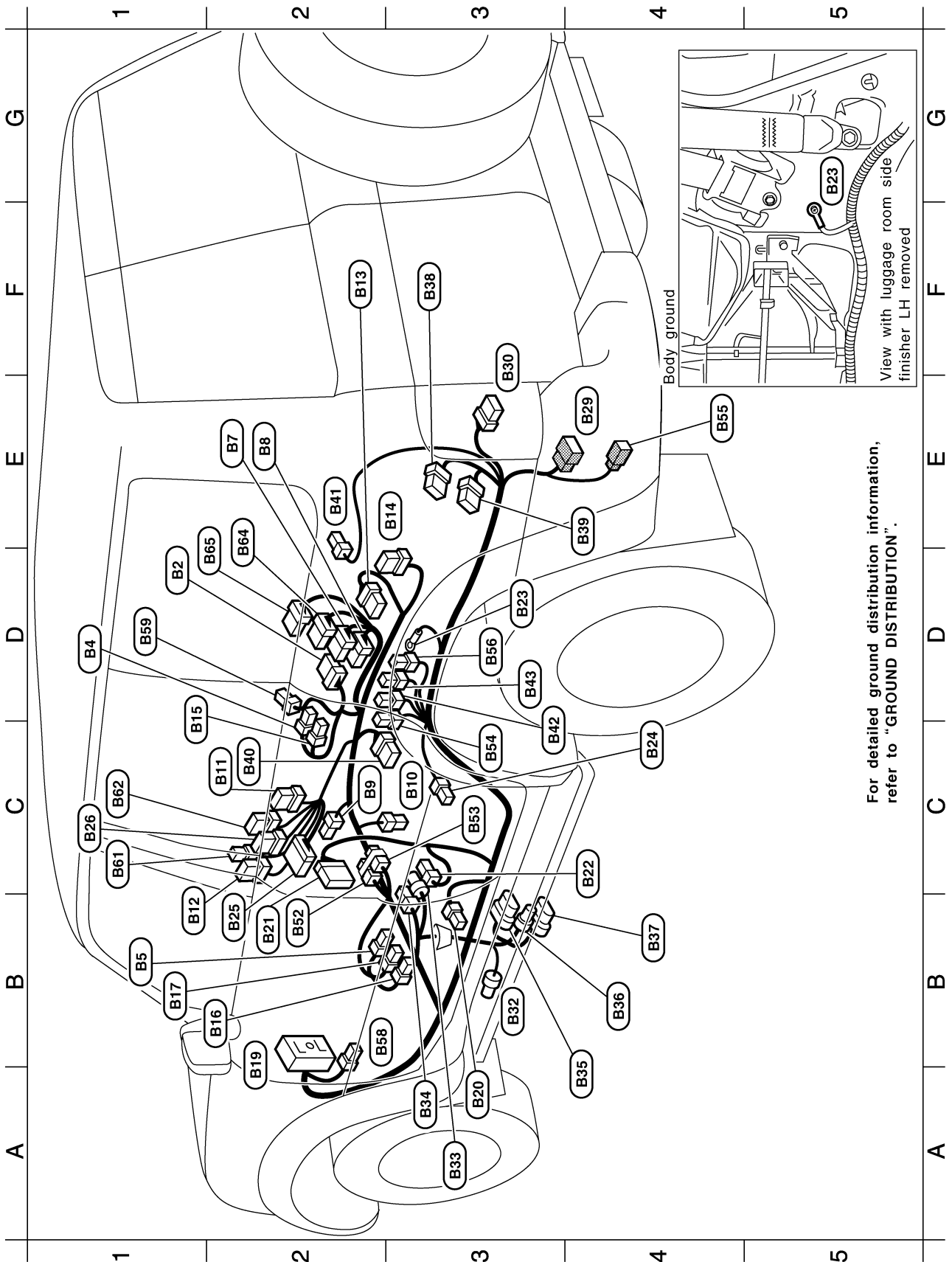
HARNESS LAYOUT/WAGON AND HARDTOP MODELS

NOTE

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body Harness/LHD Models

WAGON

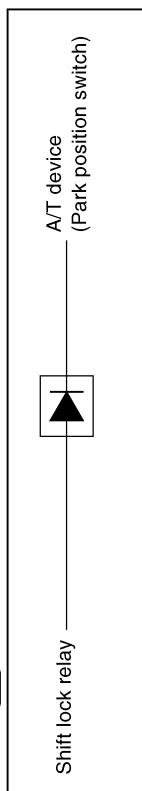


HARNESS LAYOUT/WAGON AND HARDTOP MODELS

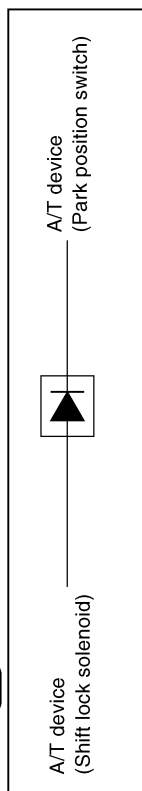
Body Harness/LHD Models (Cont'd)

D3 (B56) L/4 : Rear cooler cut relay (TB48 engine models with rear cooler)
 B2 (B58) BR/1 : To (M89) (With rear power socket)
 D1 (B59) BR/2 : To (B141) (With 7-speakers)
 C1 (B61) W/4 : Headlamp aiming switch (Except for the Middle East)
 C1 (B62) GY/8 : Headlamp washer switch
 D2 (B64) W/6 : Stabilizer switch
 D2 (B65) W/8 : Door lock and unlock switch

Diode-1 (B52)



Diode-2 (B53)

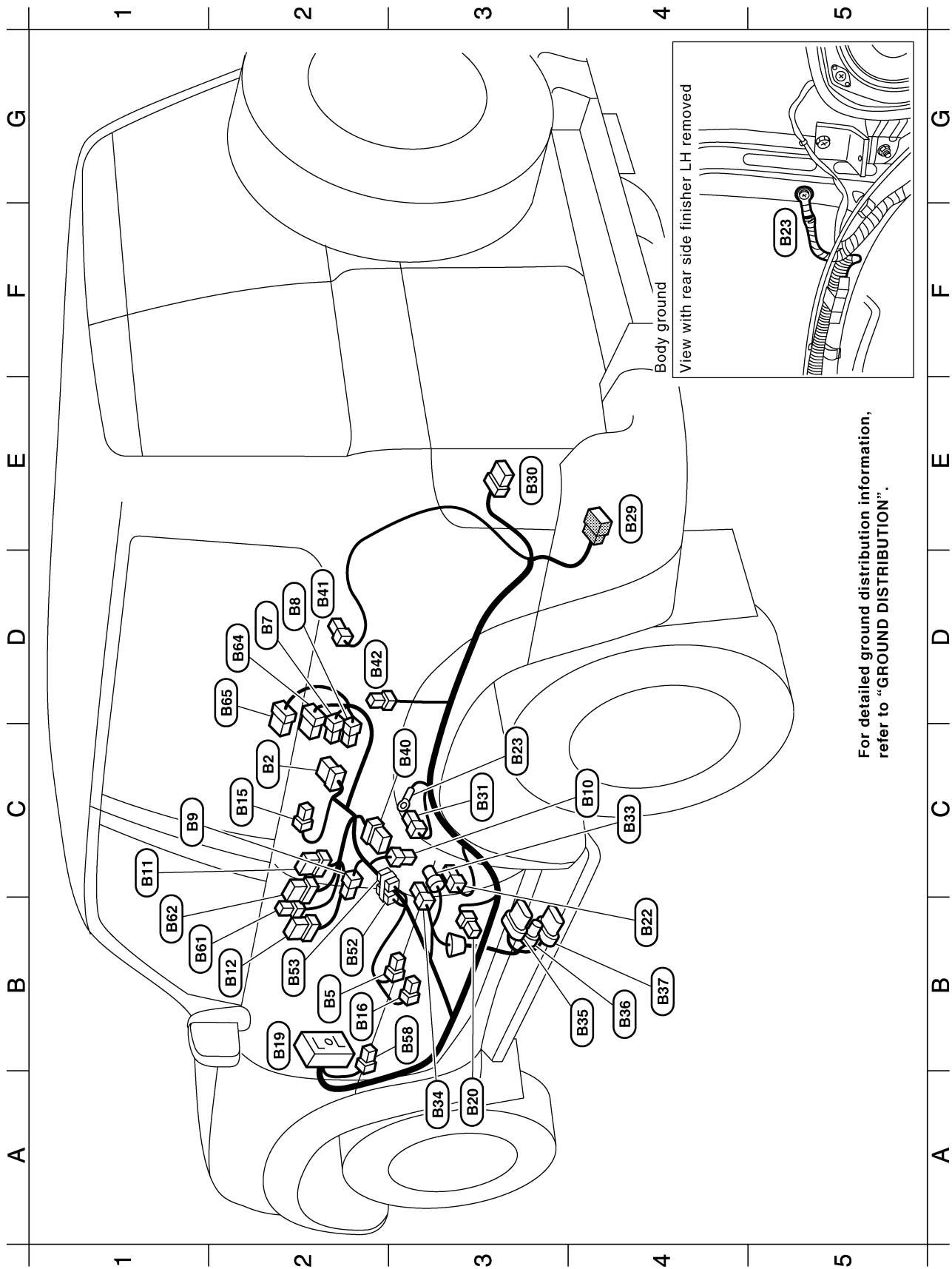


D1 (B2) W/8 : To (B106)
 D1 (B4) W/2 : Power seat (Passenger side)
 B1 (B5) W/3 : Heated seat LH
 E2 (B7) BR/6 : Heated seat switch LH
 E2 (B8) W/6 : Heated seat switch RH
 C2 (B9) W/3 : Ashtray illumination
 C3 (B10) B/1 : Parking brake switch
 C2 (B11) W/8 : A/T device (ZD engine A/T models)
 B1 (B12) W/8 : A/T mode switch (ZD engine A/T models with A/T mode switch)
 F2 (B13) W/6 : Rear cooler switch
 E3 (B14) W/6 : Rear fan switch
 D1 (B15) W/3 : Heated seat RH
 B2 (B16) W/3 : Seat belt buckle switch (Driver side)
 B1 (B17) W/2 : Power seat (Driver side)
 B2 (B19) SMJ : To (M20)
 A3 (B20) B/3 : Front door switch (Driver side)
 B2 (B21) W/18 : To (D41)
 C4 (B22) Y/2 : Seat belt pre-tensioner (Driver side)
 D3 (B23) — : Body ground
 C4 (B24) B/3 : Rear door switch LH
 B2 (B25) W/12 : A/T device (TB48 engine A/T models)
 C1 (B26) W/8 : Snow mode switch (TB48 engine A/T models with snow mode switch)
 E4 (B29) W/6 : To (D81)
 F3 (B30) W/6 : Rear combination lamp LH
 B3 (B32) GY/2 : Rear cooler solenoid valve
 A3 (B33) BR/2 : G sensor (With ABS for Europe and the Middle East)
 A3 (B34) GY/2 : G sensor (With ABS)
 B4 (B35) B/6 : To (C1)
 B4 (B36) SB/4 : To (C3)
 B4 (B37) SB/8 : To (C2)
 F3 (B38) W/8 : Rear cooler unit
 E4 (B39) B/6 : Rear cooler unit
 C2 (B40) W/6 : Cool box
 E2 (B41) B/2 : Rear power socket
 C3 (B42) L/4 : Power socket relay
 D3 (B43) B/5 : Rear cooler cut relay (TB45E engine models with rear cooler for the Middle East)
 B2 (B52) W/2 : Diode-1 } (A/T models)
 C3 (B53) W/2 : Diode-2 }
 C3 (B54) BR/6 : Multi-remote control relay (With theft warning system)
 E4 (B55) W/4 : To (D87) (With theft warning system)

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body Harness/LHD Models (Cont'd)

HARDTOP



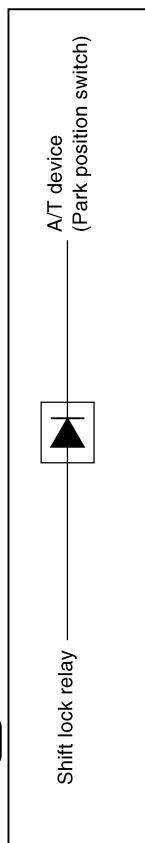
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

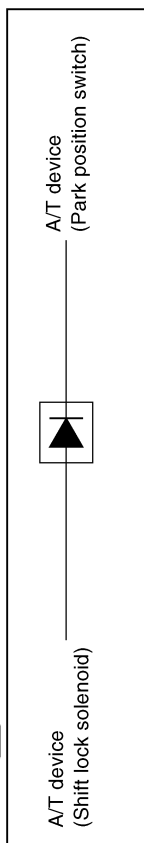
Body Harness/LHD Models (Cont'd)

C2	(B2)	W/8	: To (B106)
B2	(B5)	W/3	: Heated seat LH
D2	(B7)	BR/6	: Heated seat switch LH
D2	(B8)	W/6	: Heated seat switch RH
C1	(B9)	W/3	: Ashtray illumination
C4	(B10)	B/1	: Parking brake switch
C1	(B11)	W/8	: A/T device
B2	(B12)	W/8	: A/T mode switch
C2	(B15)	W/3	: Heated seat RH
B2	(B16)	W/3	: Seat belt buckle switch (Driver side)
B2	(B19)	SMJ	: To (M20)
A3	(B20)	B/3	: Front door switch (Driver side)
B4	(B22)	Y/2	: Seat belt pre-tensioner (Driver side)
C3	(B23)	-	: Body ground
E4	(B29)	W/6	: To (D81)
E3	(B30)	W/6	: Rear combination lamp LH
C3	(B31)	BR/2	: Rear speaker LH
C4	(B33)	BR/2	: G sensor (With ABS for Europe and the Middle East)
A3	(B34)	GY/2	: G sensor (With ABS)
B4	(B35)	B/6	: To (C1)
B4	(B36)	SB/4	: To (C3)
B4	(B37)	SB/8	: To (C2)
C3	(B40)	W/6	: Cool box
D2	(B41)	B/2	: Rear power socket
D2	(B42)	L/4	: Power socket relay
B2	(B52)	W/2	: Diode-1
B2	(B53)	W/2	: Diode-2
B3	(B58)	BR/1	: To (M89) (With rear power socket)
B1	(B61)	W/4	: Headlamp aiming switch (Except for the Middle East)
B1	(B62)	GY/8	: Headlamp washer switch
D2	(B64)	W/6	: Stabilizer switch
D2	(B65)	W/8	: Door lock and unlock switch

Diode-1 (B52)



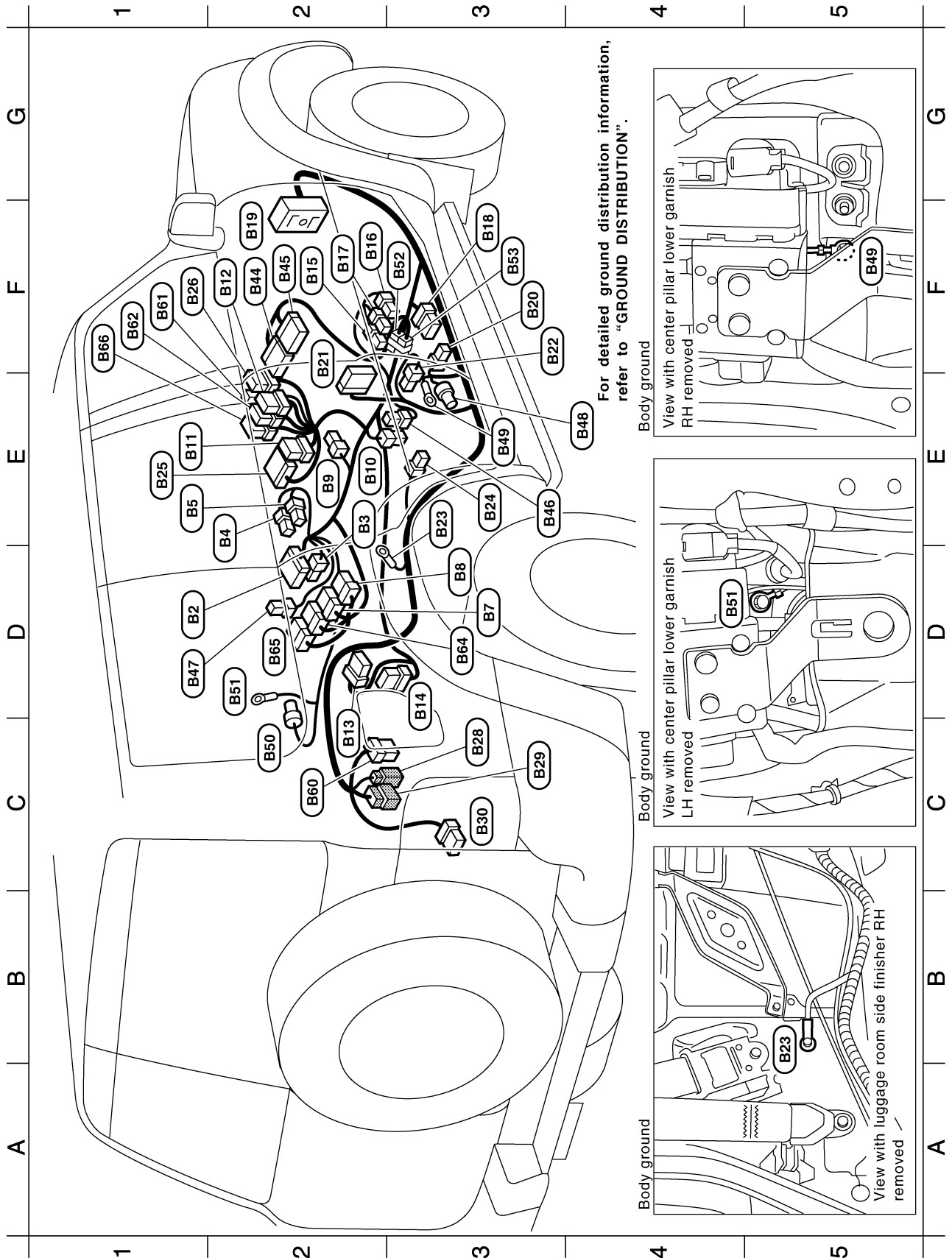
Diode-2 (B53)



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body Harness/RHD Models

WAGON

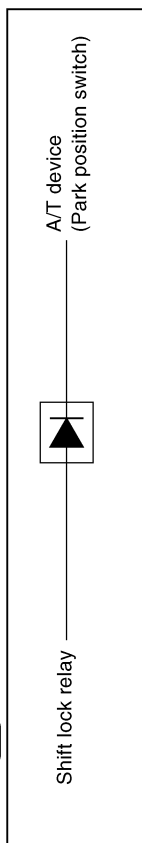


HARNESS LAYOUT/WAGON AND HARDTOP MODELS

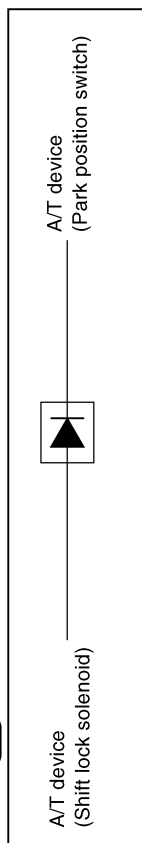
Body Harness/RHD Models (Cont'd)

D3 (B64) W/6 : Stabilizer switch
D2 (B65) W/8 : Door lock and unlock switch
F1 (B66) W/6 : power antenna switch

Diode-1 (B52)



Diode-2 (B53)



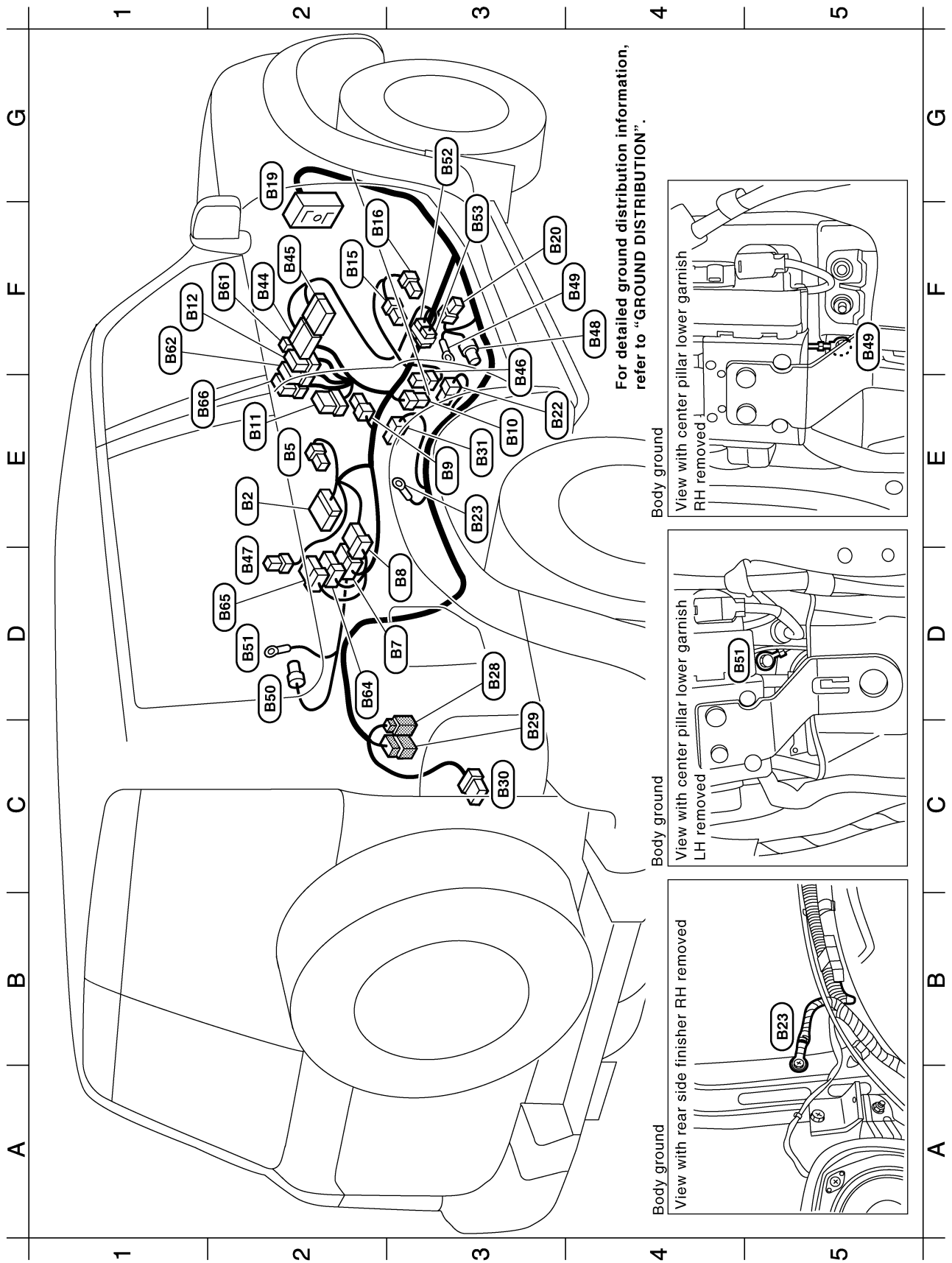
D1	(B2)	W/12	: To (B106)
E2	(B3)	W/4	: To (B130)
E2	(B4)	W/2	: Power seat (Passenger side)
E1	(B5)	W/3	: Heated seat LH
D3	(B7)	BR/6	: Heated seat switch LH
D3	(B8)	W/6	: Heated seat switch RH
E2	(B9)	W/3	: Ashtray illumination
E2	(B10)	B/1	: Parking brake switch
E1	(B11)	W/8	: A/T device (ZD engine A/T models)
F2	(B12)	W/8	: A/T mode switch
(ZD engine A/T models with A/T mode switch)			
C2	(B13)	W/6	: Rear cooler switch
D3	(B14)	W/6	: Rear fan switch
F2	(B15)	W/3	: Heated seat RH
F2	(B16)	W/3	: Seat belt buckle switch (Driver side)
F2	(B17)	W/2	: Power seat (Driver side)
F3	(B18)	W/6	: Rear heater unit
F2	(B19)	SMJ	: To (M20)
F3	(B20)	B/3	: Front door switch (Driver side)
F2	(B21)	W/18	: To (D61)
F3	(B22)	Y/2	: Seat belt pre-tensioner (Driver side)
E3	(B23)	—	: Body ground
E3	(B24)	B/3	: Rear door switch RH
E1	(B25)	W/12	: A/T device (TB48 engine A/T models)
F1	(B26)	W/8	: Snow mode switch
(TB48 engine A/T models with snow mode switch)			
C3	(B28)	BR/1	: To (D102)
C3	(B29)	W/6	: To (D101)
C3	(B30)	W/6	: Rear combination lamp RH
F2	(B44)	Y/12	: Air bag diagnosis sensor unit
F2	(B45)	Y/12	: Air bag diagnosis sensor unit
E3	(B46)	Y/2	: Side air bag module RH
D1	(B47)	Y/2	: Side air bag module LH
E4	(B48)	Y/2	: Satellite sensor RH
E3	(B49)	—	: Body ground
C2	(B50)	Y/2	: Satellite sensor LH
D2	(B51)	—	: Body ground
F3	(B52)	W/2	: Diode-1 } (A/T models)
F3	(B53)	W/2	: Diode-2 }
C2	(B60)	W/8	: Woofer (With 7-speakers)
F1	(B61)	W/4	: Headlamp aiming switch
F1	(B62)	GY/8	: Headlamp washer switch

TEL095V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body Harness/RHD Models (Cont'd)

HARDTOP

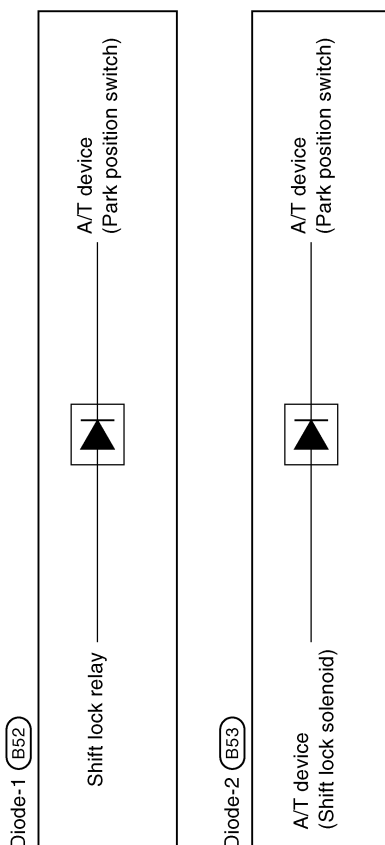


TEL096V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body Harness/RHD Models (Cont'd)

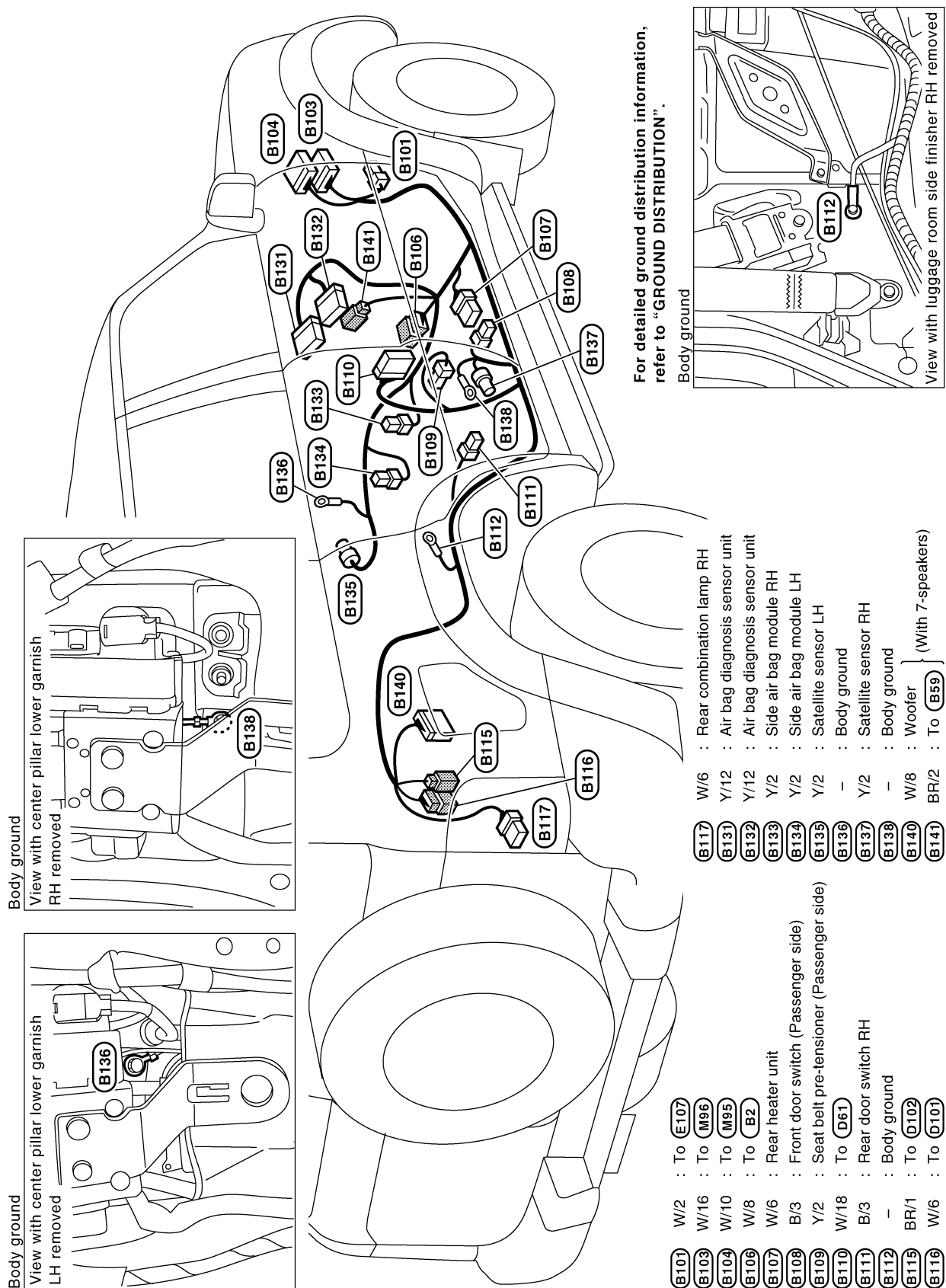
E2	(B2)	W/12	: To (B106)
E2	(B5)	W/3	: Heated seat LH
D3	(B7)	BR/6	: Heated seat switch LH
D3	(B8)	W/6	: Heated seat switch RH
E3	(B9)	W/3	: Ashtray illumination
E3	(B10)	B/1	: Parking brake switch
E2	(B11)	W/8	: A/T device
F1	(B12)	W/8	: A/T mode switch
F2	(B15)	W/3	: Heated seat RH
F2	(B16)	W/3	: Seat belt buckle switch (Driver side)
G2	(B19)	SMJ	: To (M20)
F3	(B20)	B/3	: Front door switch (Driver side)
E3	(B22)	Y/2	: Seat belt pre-tensioner (Driver side)
E3	(B23)	-	: Body ground
D3	(B28)	BR/1	: To (G102)
C3	(B29)	W/6	: To (G101)
C3	(B30)	W/6	: Rear combination lamp RH
E3	(B31)	BR/2	: Rear speaker RH
F2	(B44)	Y/12	: Air bag diagnosis sensor unit
F2	(B45)	Y/12	: Air bag diagnosis sensor unit
F3	(B46)	Y/2	: Side air bag module RH
D2	(B47)	Y/2	: Side air bag module LH
F4	(B48)	Y/2	: Satellite sensor RH
F4	(B49)	-	: Body ground
D2	(B50)	Y/2	: Satellite sensor LH
D2	(B51)	-	: Body ground
G3	(B52)	W/2	: Diode-1 } (A/T models)
F3	(B53)	W/2	: Diode-2 }
F2	(B61)	W/4	: Headlamp aiming switch
F1	(B62)	GY/8	: Headlamp washer switch
D2	(B64)	W/6	: Stabilizer switch
D2	(B65)	W/8	: Door lock and unlock switch
E1	(B66)	W/6	: Power antenna switch



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body No. 2 Harness/LHD Models

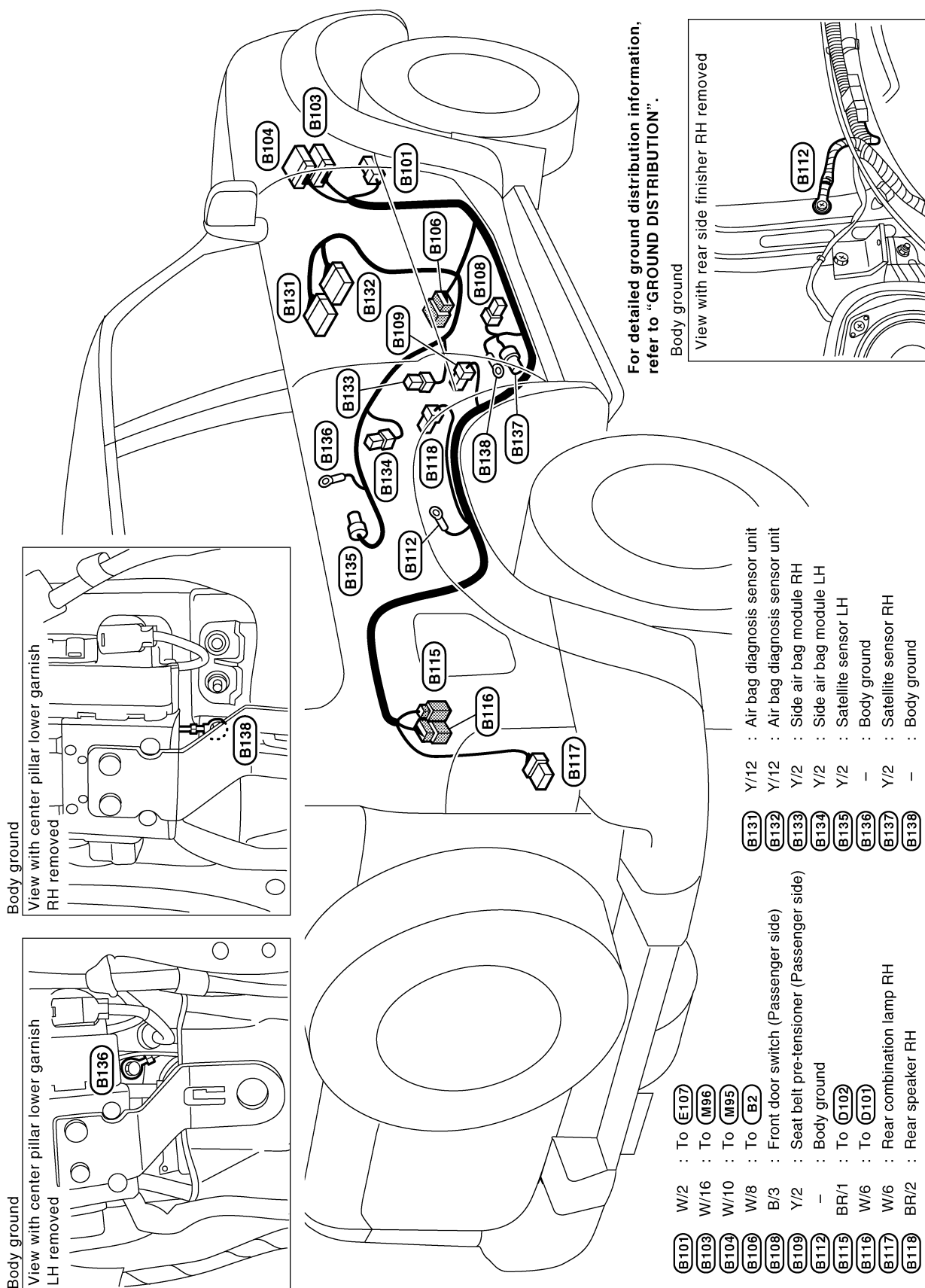
WAGON



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body No. 2 Harness/LHD Models (Cont'd)

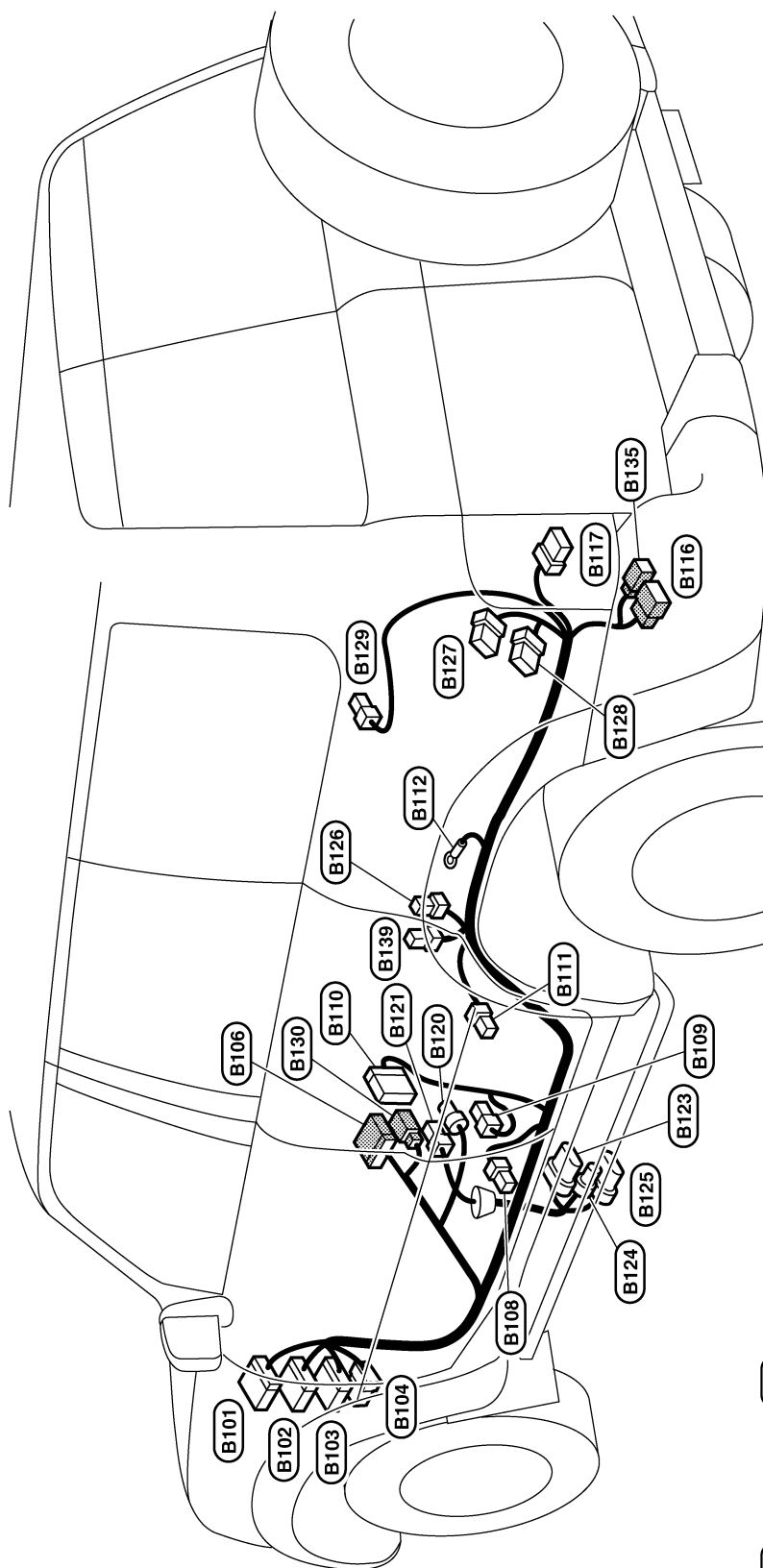
HARDTOP



HARNESS LAYOUT/WAGON AND HARDTOP MODELS

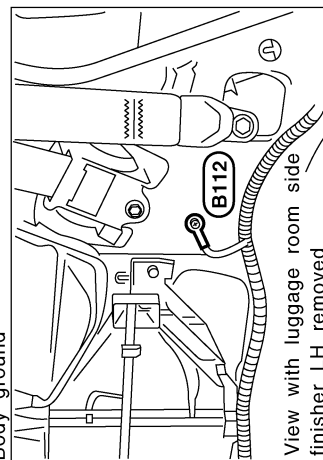
Body No. 2 Harness/RHD Models

WAGON



For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

Body ground



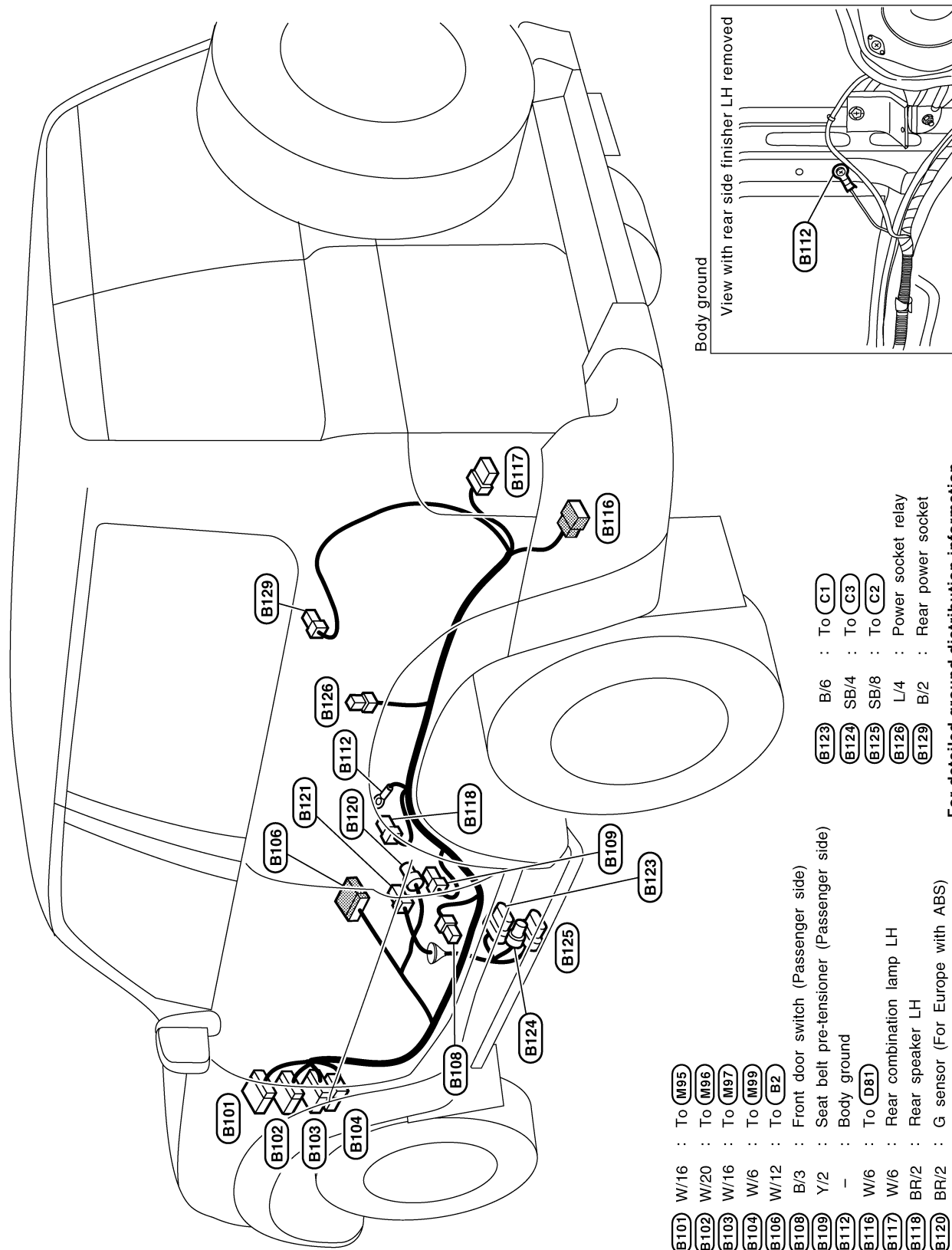
View with luggage room side finisher LH removed

B101	W/16	:	To (M95)	B123	B/6	:	To (C1)
B102	W/20	:	To (M96)	B124	SB/4	:	To (C3)
B103	W/16	:	To (M97)	B125	SB/8	:	To (C2)
B104	W/6	:	To (M99)	B126	L/4	:	Power socket relay
B106	W/12	:	To (B2)	B127	W/8	:	Rear cooler unit
B108	B/3	:	Front door switch (Passenger side)	B128	B/6	:	Rear cooler unit
B109	Y/2	:	Seat belt pre-tensioner (Passenger side)	B129	B/2	:	Rear power socket
B110	W/18	:	To (D41)	B130	W/4	:	To (B3)
B111	B/3	:	Rear door switch LH	B135	W/4	:	To (D87) (With theft warning system)
B112	-	:	Body ground	B139	BR/6	:	Multi-remote control relay (With theft warning system)
B119	W/6	:	To (D81)				
B117	W/6	:	Rear combination lamp LH				
B120	BR/2	:	G sensor (With ABS for Europe and South Africa)				
B121	GY/2	:	G sensor (With ABS)				

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Body No. 2 Harness/RHD Models (Cont'd)

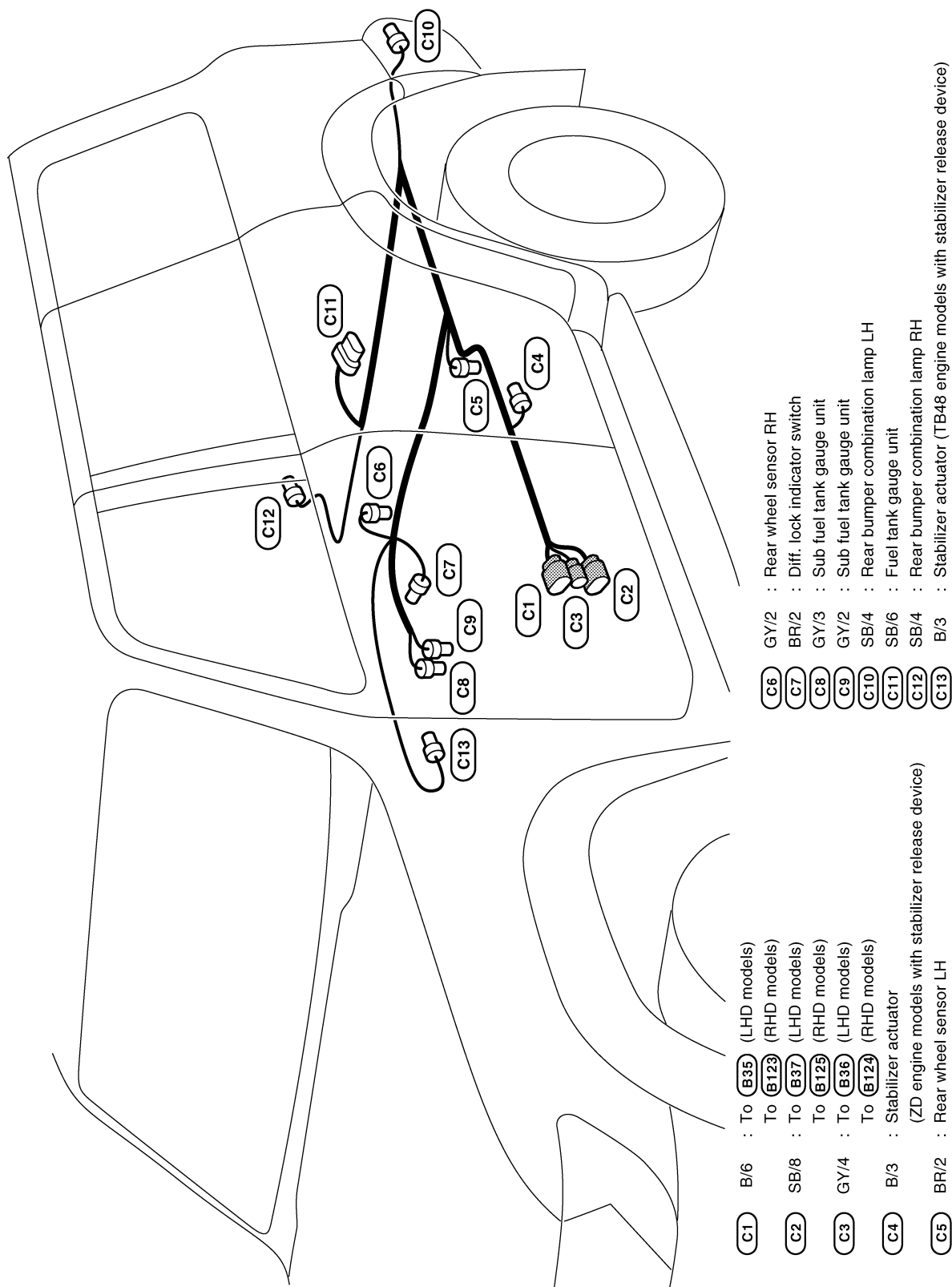
HARDTOP



TEL101V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Chassis Harness

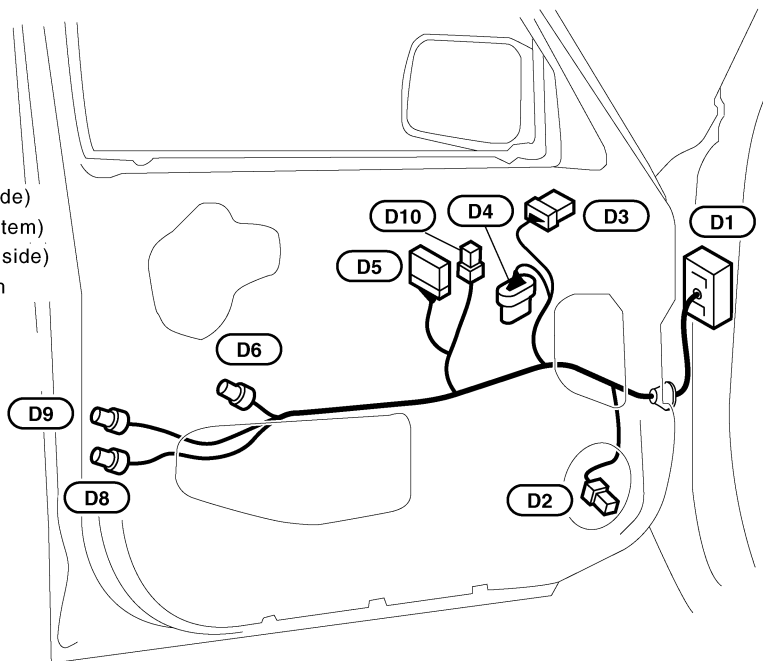


HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Front Door Harness (Driver side)

LHD MODELS

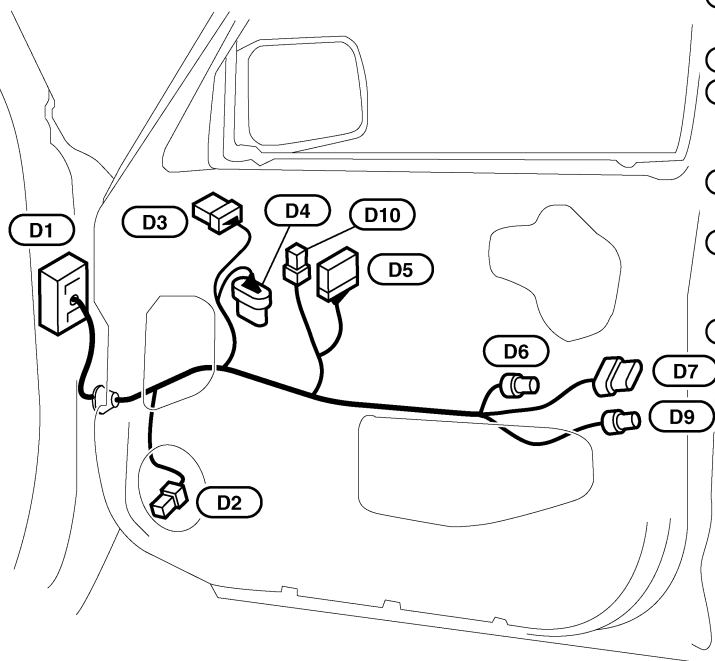
- (D1) SMJ : To (M22)
- (D2) BR/2 : Front door speaker LH
- (D3) W/8 : Door mirror (Driver side)
- (D4) GY/6 : Front power window motor (Driver side)
- (D5) W/16 : Power window main switch
- (D6) BR/3 : Front door Key cylinder switch (Driver side)
(With theft warning system)
- (D8) GY/2 : Front door lock switch (Driver side)
(Without multi-remote control system)
- (D9) GY/4 : Front door lock actuator (Driver side)
(With multi-remote control system and theft warning system)
- (D10) W/3 : Power window main switch (Wagon models)



TEL103V

RHD MODELS

- (D1) SMJ : To (M22)
- (D2) BR/2 : Front door speaker RH
- (D3) W/8 : Door mirror (Driver side)
- (D4) GY/6 : Front power window motor (Driver side)
- (D5) W/16 : Power window main switch
- (D6) BR/3 : Front door Key cylinder switch (Driver side) (For Europe and with theft warning system)
- (D7) B/6 : Front door lock actuator assembly RH (For Europe)
- (D9) GY/4 : Front door lock actuator (Driver side) (With multi-remote control system except for Europe)
- (D10) W/3 : Power window main switch (Wagon models)

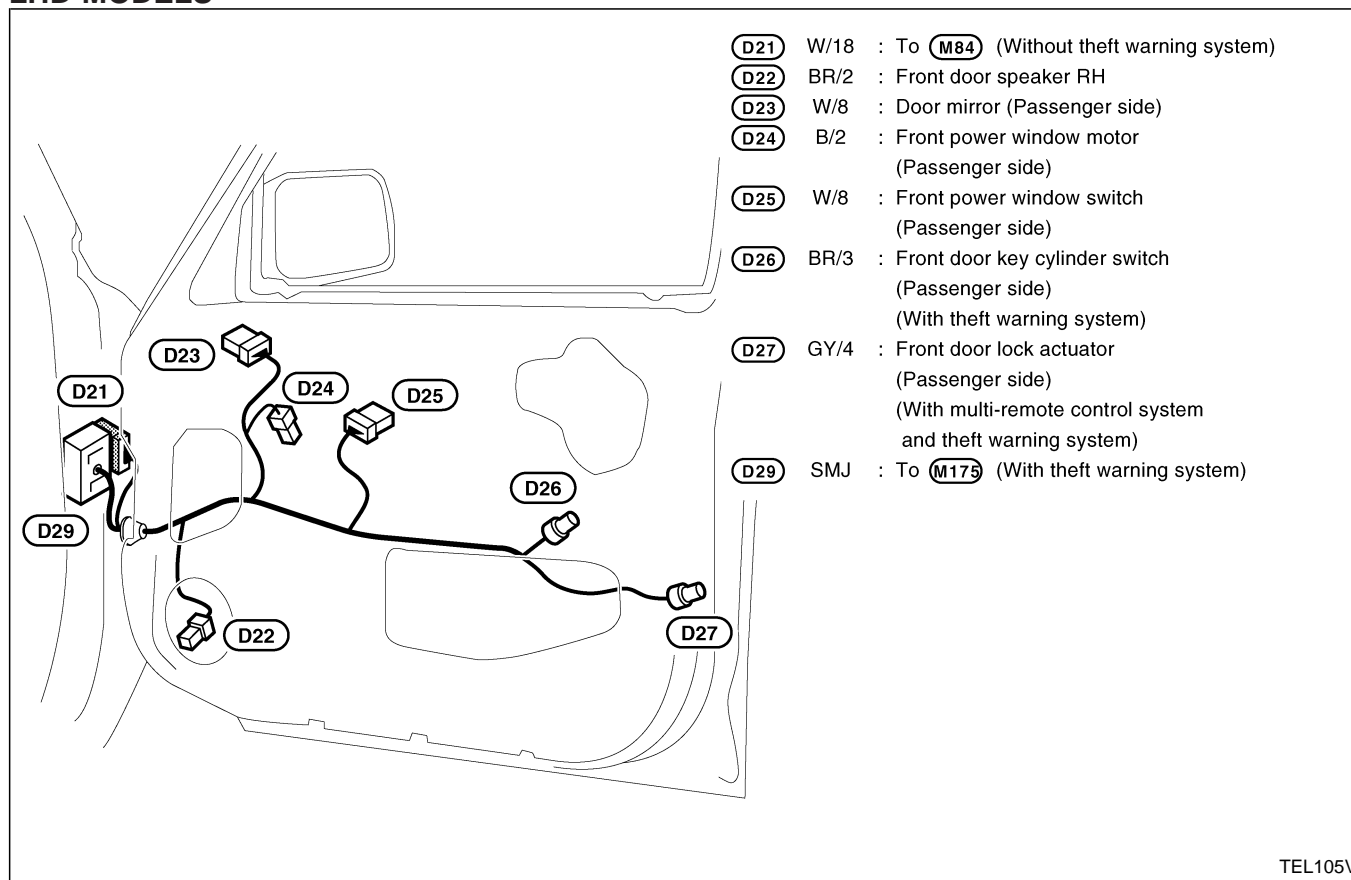


TEL104V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

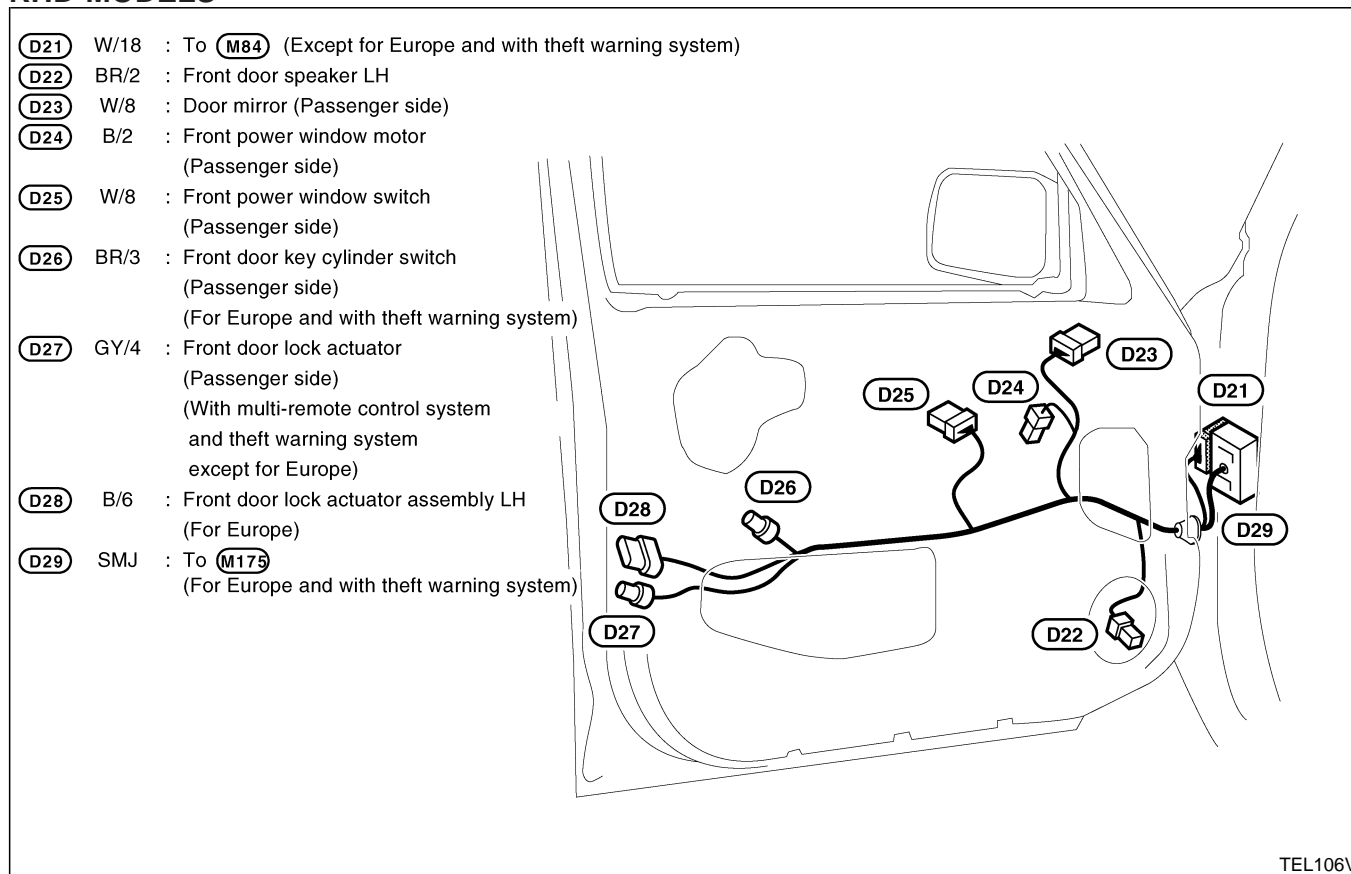
Front Door Harness (Passenger side)

LHD MODELS



TEL105V

RHD MODELS



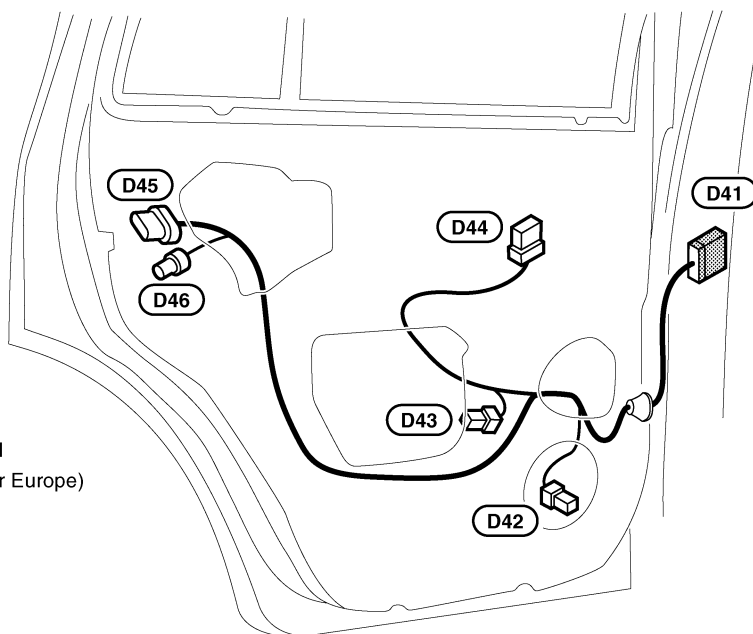
TEL106V

HARNESS LAYOUT/WAGON AND HARDTOP MODELS

Rear Door Harness

LH SIDE

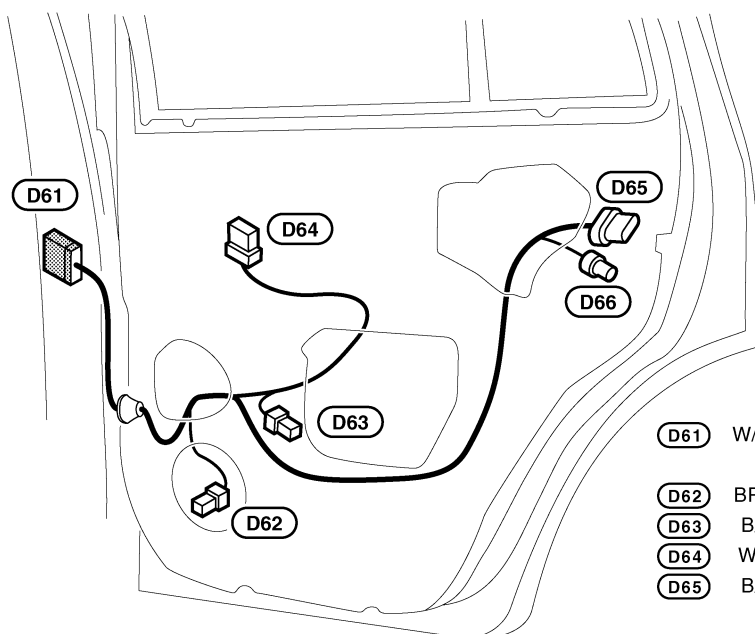
- (D41)** W/18 : To **(B21)** (LHD models)
: To **(B110)** (RHD models)
- (D42)** BR/2 : Rear door speaker LH
- (D43)** B/2 : Rear power window motor LH
- (D44)** W/8 : Rear power window switch LH
- (D45)** B/6 : Rear door lock actuator assembly LH
(Door lock actuator) (RHD models for Europe)
- (D46)** GY/4 : Rear door lock actuator LH



TEL107V

RH SIDE

- (D61)** W/18 : To **(B110)** (LHD models)
: To **(B21)** (RHD models)
- (D62)** BR/2 : Rear door speaker RH
- (D63)** B/2 : Rear power window motor RH
- (D64)** W/8 : Rear power window switch RH
- (D65)** B/6 : Rear door lock actuator assembly RH
(Door lock actuator) (RHD models for Europe)
- (D66)** GY/4 : Rear door lock actuator RH



TEL108V

Back Door Harness and Rear Window Defogger Harness

Back door harness LH

- D81 W/6 : To B29 (LHD models)
To B116 (RHD models)
- D82 BR/2 : License plate lamp
- D83 - : Body ground
- D84 BR/1 : To D133
- D85 B/3 : Back door switch LH
- D86 GY/4 : Back door lock actuator
- D87 W/4 : To B55 (LHD models)
To B135 (RHD models) (With theft warning system)
- D88 BR/3 : Back door key cylinder switch

Back door harness RH

- D101 W/6 : To B116 (LHD models)
To B29 (RHD models)
- D102 BR/1 : To B115 (LHD models)
To B28 (RHD models)
- D103 BR/1 : To B121
- D104 W/2 : High-mounted stop lamp
- D105 W/4 : Rear wiper motor
- D106 - : Body ground
- D107 W/3 : Back door switch RH

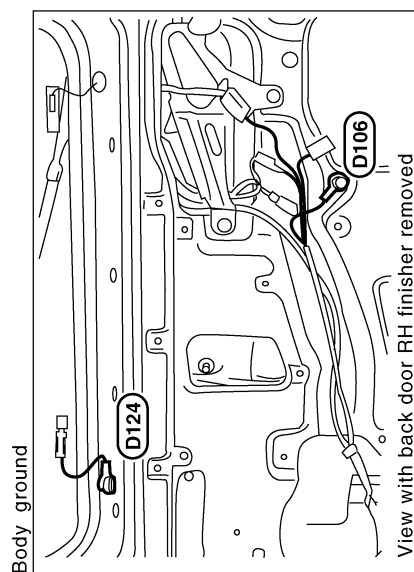
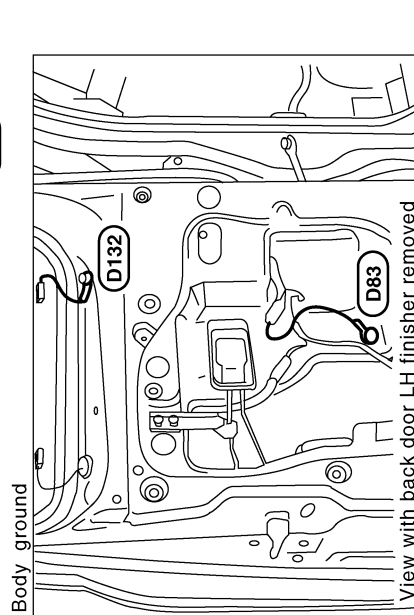
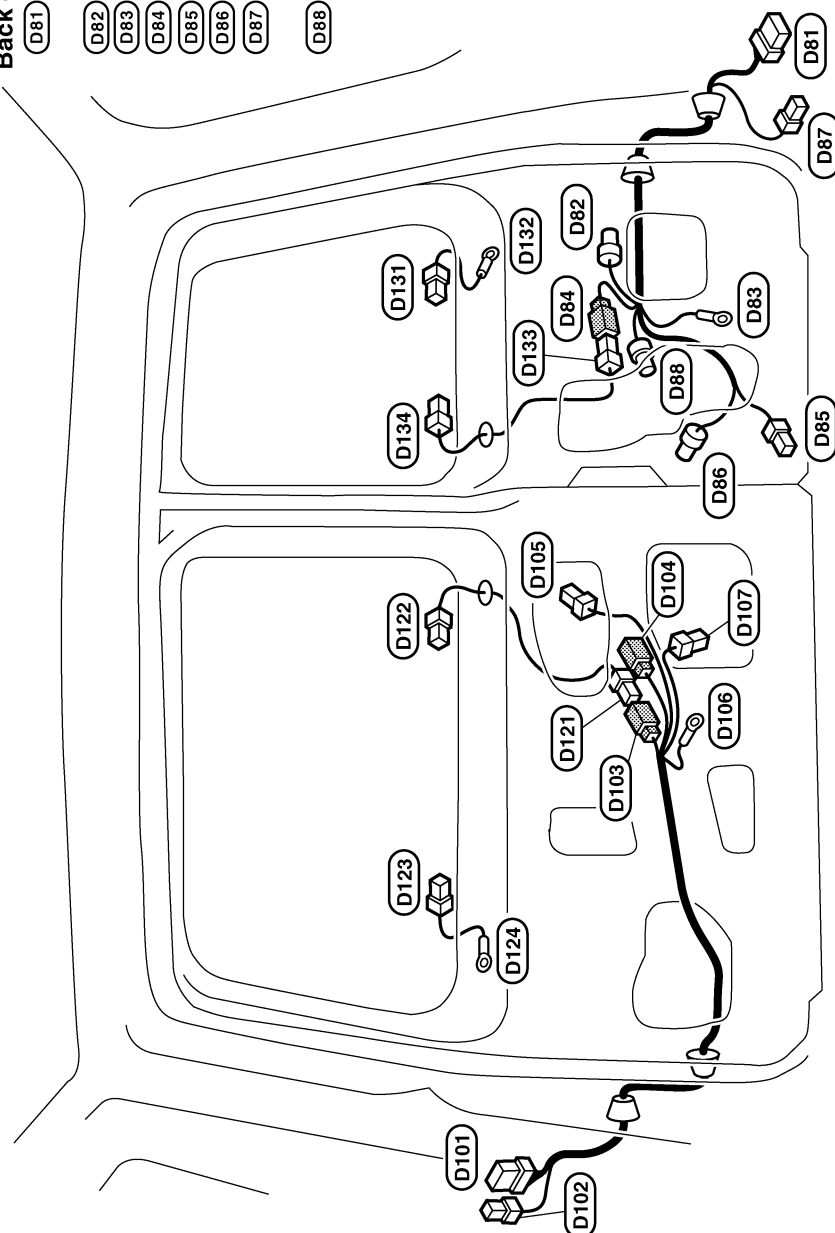
Rear defogger harness RH

- D121 BR/1 : To B103
- D122 B/1 : Rear window defogger RH (+)
- D123 B/1 : Rear window defogger RH (-)
- D124 - : Body ground

Rear defogger harness LH

- D131 B/1 : Rear window defogger LH (-)
- D132 - : Body ground
- D133 BR/1 : To D84
- D134 B/1 : Rear window defogger LH (+)

For detailed ground distribution information, refer to "GROUND DISTRIBUTION".



WIRING DIAGRAM CODES (CELL CODES)

Wiring Diagram Codes (Cell Codes)

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

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

Code	Section	Wiring Diagram Name
A/C, A	HA	Auto Air Conditioner
A/C, M	HA	Manual Air Conditioner
A/CCUT	EC	Air Conditioner Control
A/T	AT	A/T
ASCD	EL	Automatic Speed Control Device
AUDIO	EL	Audio
BACK/L	EL	Back-up Lamp
CD/CHG	EL	CD Auto Changer
CHIME	EL	Warning Chime
COMPAS	EL	Compass and Thermometer
COOL/B	HA	Cool Box
D/LOCK	EL	Power Door Lock
DEF	EL	Rear Window Defogger
DEICER	EL	Wiper Deicer
DTRL	EL	Headlamp — Daytime Light System
F/FOG	EL	Front Fog Lamp
FICD	EC	IACV-FICD Solenoid Valve
GLOW	EC	Quick Glow System
H/AIM	EL	Headlamp Aiming Control System
H/LAMP	EL	Headlamp
HEATUP	EC	Heat Up Switch
HLC	EL	Headlamp Washer
HORN	EL	Horn
HSEAT	EL	Heated Seat
ILL	EL	Illumination
LOAD	EC	Electrical Load Signal
MAFS	EC	Mass Air Flow Sensor
METER	EL	Meter and Gauges
MIRROR	EL	Door Mirror
MULTI	EL	Multi-remote Control System
NATS	EL	Nissan Anti-Theft System
NAVI	EL	Navigation System
NONDTC	AT	Non-detective Items
P/ANT	EL	Power Antenna
PHONE	EL	Telephone
POWER	EL	Power Supply Routing
R/COOL	HA	Rear Cooler System
R/FOG	EL	Rear Fog Lamp

Code	Section	Wiring Diagram Name
R/HEAT	HA	Rear Heater System
REMOTE	EL	Audio (Remote Control Switch)
ROOM/L	EL	Interior Room Lamp
S/LOCK	EL	Power Door Lock — Super Lock
S/TANK	FE	Sub Fuel Tank Control System
SRS	RS	Supplemental Restraint System
STAB	RA	Stabilizer Release Device
STOP/L	EL	Stop Lamp
TAIL/L	EL	Parking, License and Tail Lamps
THEFT	EL	Theft Warning System
TRQ/SG	EC	Engine Torque Control Signal
TURN	EL	Turn Signal and Hazard Warning Lamps
VSS	EC	Vehicle Speed Sensor
WARN	EL	Warning Lamps
WINDOW	EL	Power Window
WIP/R	EL	Rear Wiper and Washer
WIPER	EL	Front Wiper and Washer