

ELECTRICAL SYSTEM

SECTION **EL**

When you read wiring diagrams:

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

CONTENTS

HARNESS CONNECTOR	3	Wiring Diagram - TURN -	56
Description	3	Bulb Specifications	60
STANDARDIZED RELAYS	4	INTERIOR LAMP	61
Description	4	Schematic	61
POWER SUPPLY ROUTING	6	Wiring Diagram - ILL -	62
Schematic	6	Wiring Diagram - INT/L -	66
Wiring Diagram - POWER -	8	METER AND GAUGES	70
Fuse	17	Combination Meter	70
Fusible Link.....	17	Schematic	71
Circuit Breaker Inspection	17	Wiring Diagram - METER -	72
GROUND DISTRIBUTION	18	Combination Meter Self-Diagnosis	76
COMBINATION SWITCH	23	Components Inspection	78
Check.....	23	Trouble Diagnoses.....	79
Replacement.....	24	Fuel Tank Gauge Unit Check	80
STEERING SWITCH	25	Thermal Transmitter Check	80
Check.....	25	Oil Pressure Switch Check.....	80
HEADLAMP - Without Daytime Light System -	26	WARNING LAMPS AND CHIME	81
Wiring Diagram - H/LAMP -	26	Schematic	81
HEADLAMP - Daytime Light System -	29	Wiring Diagram - WARN -	82
Operation	29	Diode Check	92
Schematic	30	Wiring Diagram - CHIME -	93
Wiring Diagram - DTRL -	31	WIPER AND WASHER	94
HEADLAMP - Headlamp Aiming Control -	37	Wiring Diagram - WIPER -	94
Description	37	Wiring Diagram - WIP/R -	96
Replacing Headlamp Aiming Actuator	38	Installation.....	98
Wiring Diagram - H/AIM -	39	Washer Nozzle Adjustment	99
Trouble Diagnoses.....	42	Check Valve	99
HEADLAMP	43	Wiring Diagram - HLC -	100
Bulb Replacement	43	HORN, CIGARETTE LIGHTER AND CLOCK	104
Aiming Adjustment.....	43	Wiring Diagram - HORN -	104
EXTERIOR LAMP	45	Wiring Diagram - CIGAR -	105
Wiring Diagram - TAIL/L -	45	Wiring Diagram - CLOCK -	106
Wiring Diagram - STOP/L -	48	REAR WINDOW DEFOGGER AND DOOR	
Wiring Diagram - BACK/L -	49	MIRROR DEFOGGER	107
Wiring Diagram - F/FOG -	51	Wiring Diagram - DEF -	107
Front Fog Lamp Aiming Adjustment.....	53	Filament Check.....	109
Wiring Diagram - R/FOG -	54	Filament Repair	110
Schematic	55	AUDIO	111

CONTENTS (Cont'd)

System Description.....	111	Trouble Diagnosis.....	182
Schematic	113	Schematic	184
Wiring Diagram - AUDIO -	115	NATS (Nissan Anti-Theft System).....	186
Wiring Diagram - REMOTE -	122	System Description.....	186
Trouble Diagnoses.....	124	System Composition.....	187
Inspection.....	126	Component Parts Location	188
Location of Roof Mounted Antenna.....	127	Wiring Diagram - NATS -	189
HEATED SEAT	128	CONSULT-II	193
Wiring Diagram - HSEAT -	128	Trouble Diagnoses.....	195
SUNROOF.....	130	How to Replace NATS IMMU	208
Wiring Diagram - SROOF -	130	THEFT WARNING SYSTEM	209
DOOR MIRROR.....	131	Components Parts and Harness Connector	
Wiring Diagram - MIRROR -	131	Location	209
POWER WINDOW.....	133	System Description.....	210
Schematic	133	Theft Warning System/Schematic	213
Wiring Diagram - WINDOW -	134	Wiring Diagram - THEFT -	214
POWER DOOR LOCK.....	137	Trouble Diagnoses.....	230
Power Door Lock	137	LOCATION OF ELECTRICAL UNITS.....	241
Schematic	138	Engine Compartment.....	241
Wiring Diagram - D/LOCK -	140	Passenger Compartment/LHD Models.....	242
POWER DOOR LOCK - SUPER LOCK -	145	Passenger Compartment/RHD Models	244
Component Parts Location	145	HARNESS LAYOUT	247
System Description.....	146	Outline.....	247
Schematic	148	Main Harness.....	248
Wiring Diagram - S/LOCK -	150	EFC Harness	264
Trouble Diagnoses.....	158	Engine Harness	276
MULTI-REMOTE CONTROL SYSTEM	168	Body Harness	278
Schematic	168	Chassis Harness.....	286
Wiring Diagram - MULTI -	169	Room Lamp Harness.....	287
Trouble Diagnoses.....	177	Tailgate Harness	288
ID Code Entry Procedure	179	Door Harness (LH side).....	289
TIME CONTROL UNIT (TCU)	180	Door Harness (RH side)	290
System Description.....	180	WIRING DIAGRAM CODES (CELL CODES).....	291

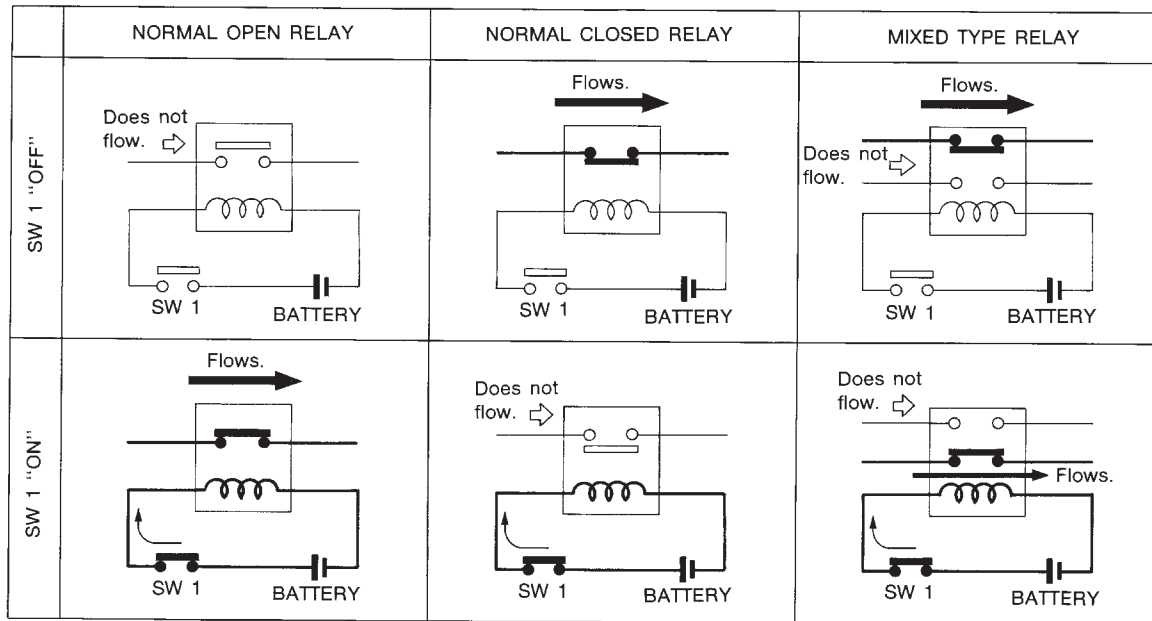
WIRING DIAGRAM REFERENCE CHART

ENGINE CONTROL SYSTEM, IGNITION SYSTEM	EC SECTION
RESTRAINT SYSTEM (AIR BAG)	RS SECTION
HEATER AND AIR CONDITIONER.....	HA SECTION

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

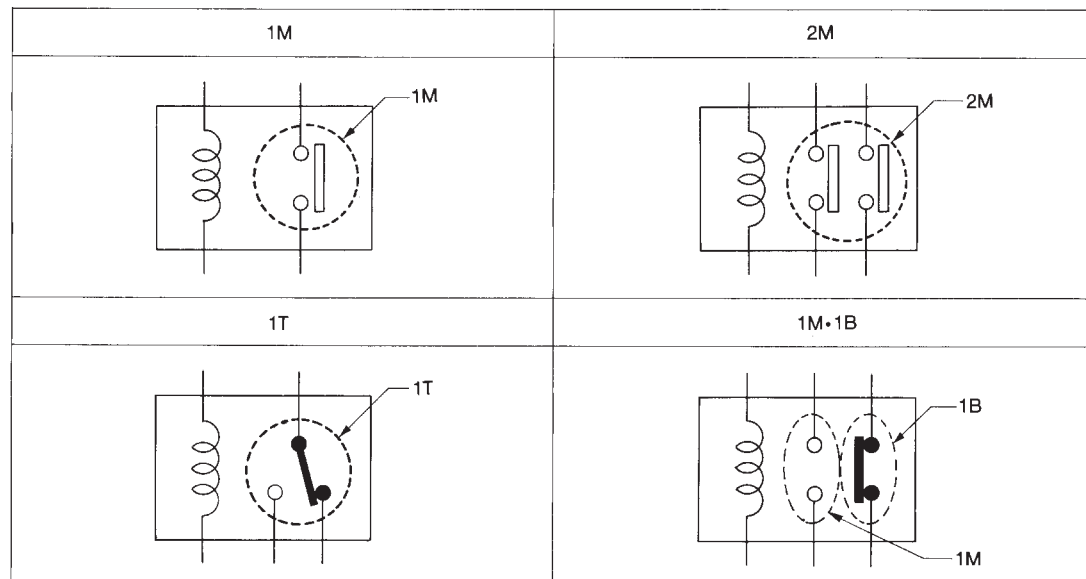
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

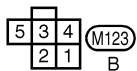
1M 1 Make
 1T 1 Transfer
 2M 2 Make
 1M-1B 1 Make 1 Break



SEL882H

Wiring Diagram — POWER — (Cont'd)

 : LHD MODELS
 : RHD MODELS
 : ZD30DDTi ENGINE MODELS



(M756) , (M821) , (M822) , (M823) ,
(M833) , (F48) , (F112) , (B74)

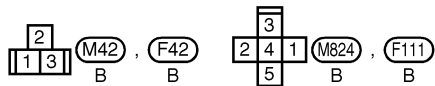
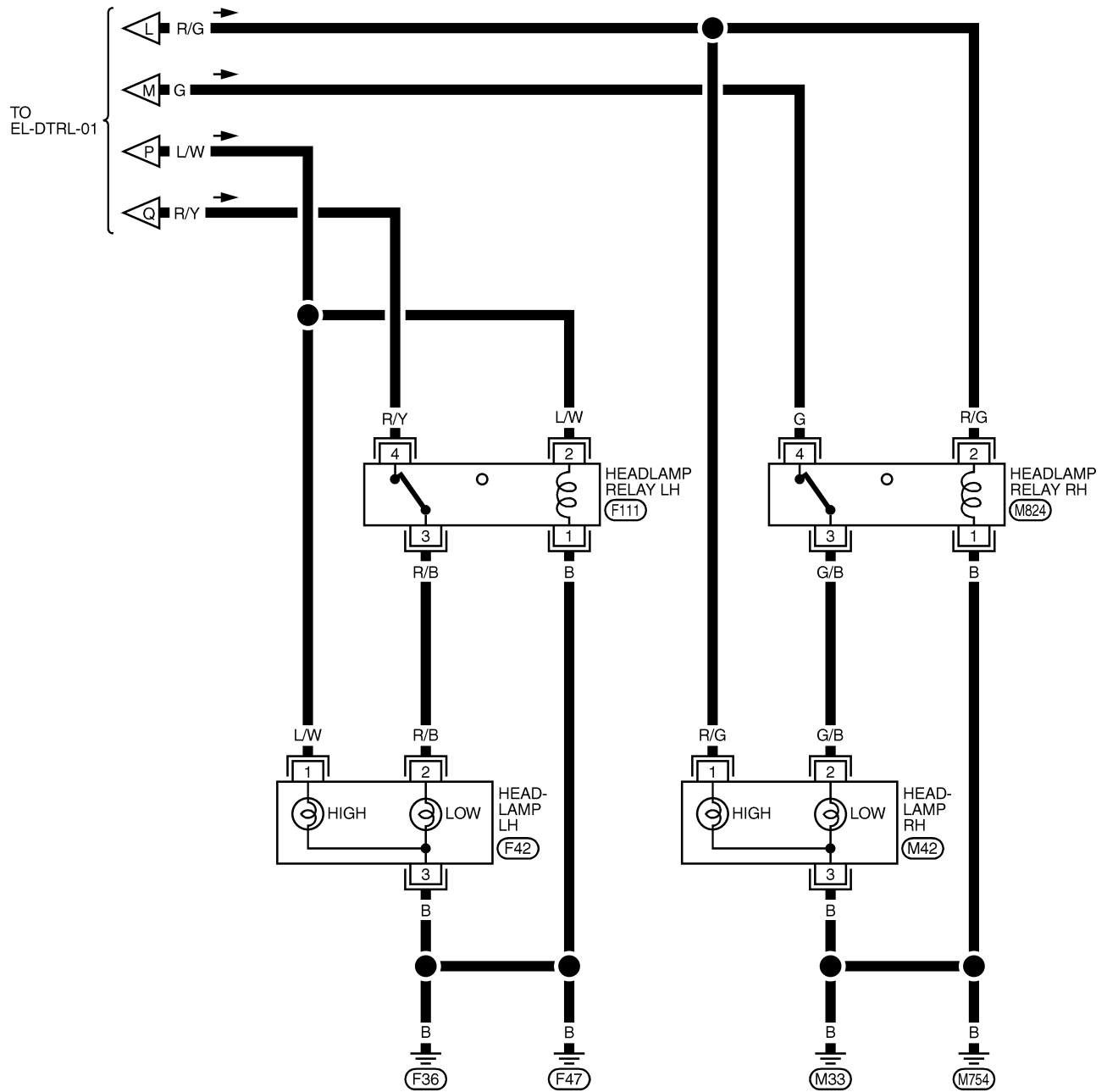
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16		18	19	20	21	22	23	24		26

HEADLAMP — Daytime Light System —

Wiring Diagram — DTRL — (Cont'd)

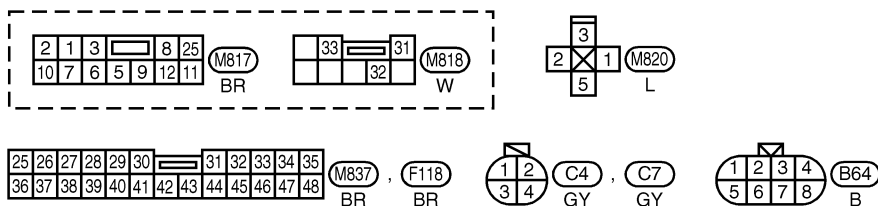
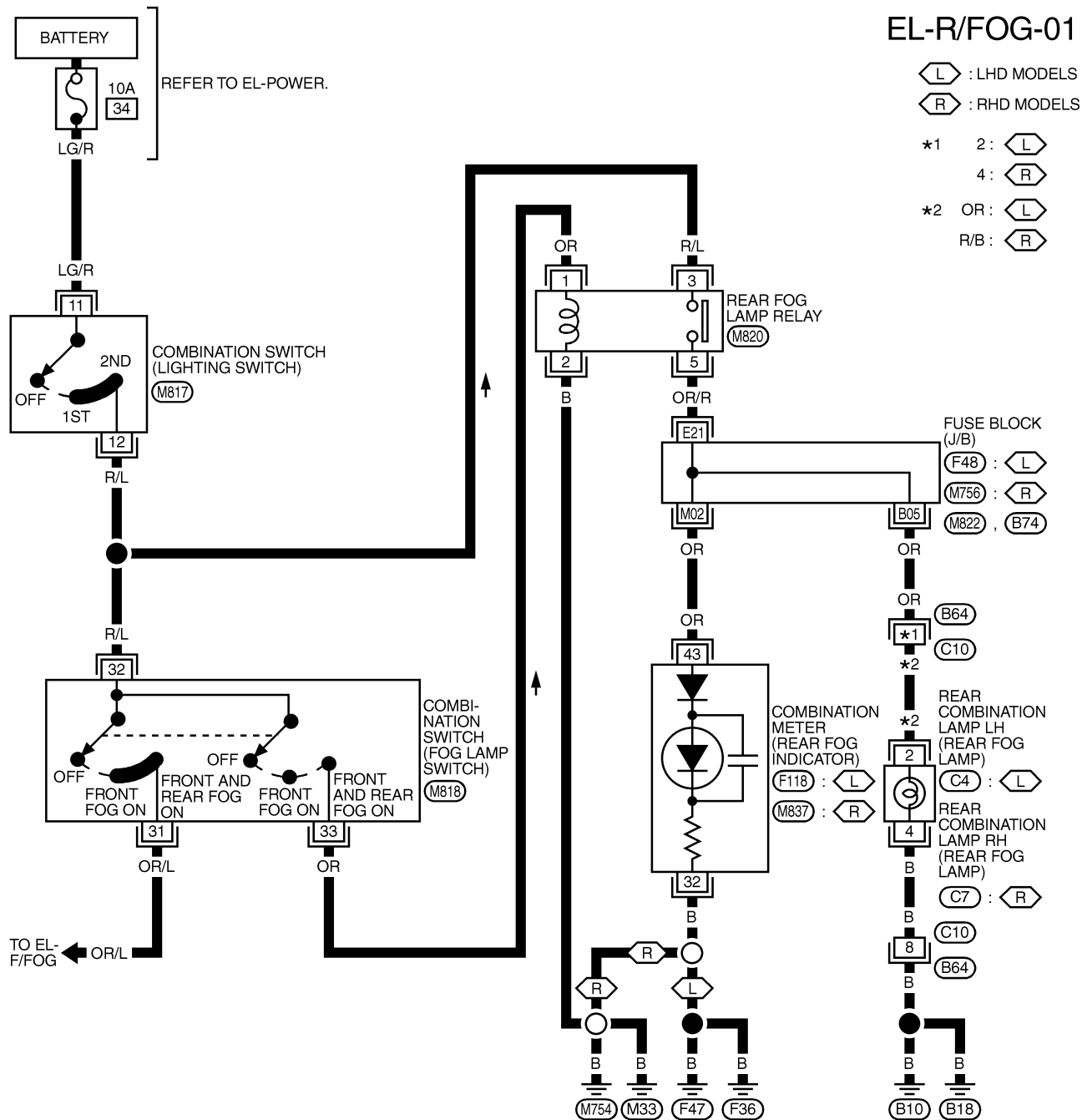
ZD30DDTi ENGINE MODELS

EL-DTRL-06



YEL067D

Wiring Diagram — R/FOG —



REFER TO THE FOLLOWING.

(M756) , (M822) , (F48) , (B74)

-FUSE BLOCK-
JUNCTION BOX (J/B)

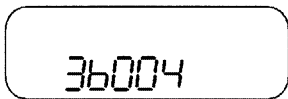
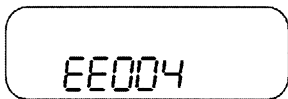
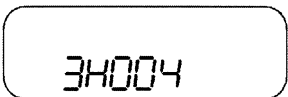
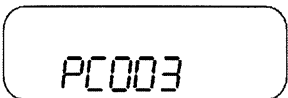
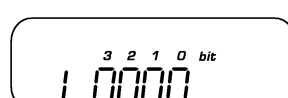
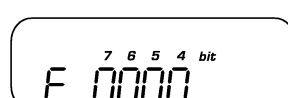
Combination Meter Self-Diagnosis

PERFORMING SELF-DIAGNOSIS MODE

1. Turn the ignition switch to the "LOCK" position.
2. Press both reset buttons on the combination meter and keep them depressed.
3. Turn the ignition switch to the "ON" position, while keeping the reset buttons pressed.
4. Release both reset buttons then self-diagnosis will start. The sequence (A to I) is activated by press the either reset buttons.

NOTE:

If either reset button is not pressed for 20 seconds at each step or if the ignition switch is turned OFF, the self-diagnosis mode is exited.

	Check items	Display	Remarks
A)	Odometer segment test		All odo trip meter segments are ON.
B)	Software code	 This code is an example. NEL735	This information is not used for service. Please skip this step.
C)	EEPROM code	 This code is an example. NEL736	This information is not used for service. Please skip this step.
D)	Hardware code	 This code is an example. NEL737	This information is not used for service. Please skip this step.
E)	PCB code	 This code is an example. NEL738	This information is not used for service. Please skip this step.
F)	Meter/gauge test (Sweeping movement)	 Flashing SEL440X	Tachometer, speedometer, fuel level gauge and water temperature gauge have sweeping movement test. (The meter/gauges operate MIN. → MAX., MAX. → MIN. for 2 times) The odo trip meter segment flashes during the sweep movement.
G)	Error 1 (Bit 0 - Bit 3)	 SEL441X	The segment of each bit displays "0", meaning no failure. If the bit(s) displays figures other than "0", the item of the bit has failed. For details, refer to "Failure chart for Error 1 and Error E" below.
H)	Error E (Bit 4 - Bit 7)	 SEL442X	

Wiring Diagram — WARN — (Cont'd)

EL-WARN-07

PRE-CE-
DING
PAGE

NEXT PAGE

CHARGE

A/T OIL TEMP.

O/D OFF INDICATOR

PRE-CE-
DING
PAGE

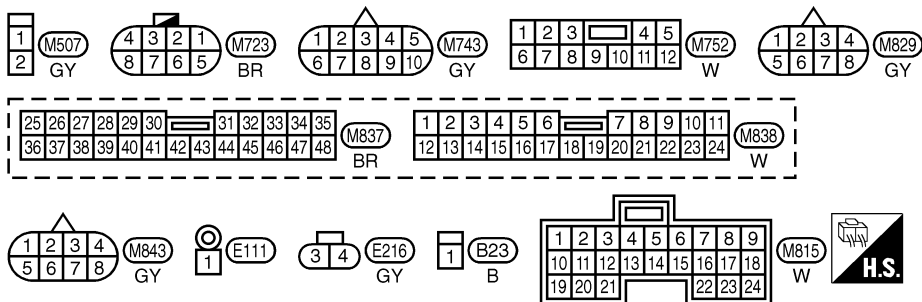
TO EL-WARN-09

COMBINATION METER (M837) (M838)

A : A/T MODELS
AB : WITH ABS
OA : WITHOUT ABS

*1 Y/B : (AB)
B : (OA)

Wiring diagram for EL-WARN-07 combination meter. The diagram shows the internal circuitry of the meter and its connections to various vehicle components. The meter has terminals for CHARGE, A/T OIL TEMP., O/D OFF INDICATOR, and a PRE-CE- DING PAGE input. The output terminals are labeled 2 (GY/L), 37 (GY), 17 (OR/B), 44 (*1), 32 (B), 46 (Y/B), and 45 (Y/L). The diagram includes connections for the ALTERNATOR (E111 for TD, E216 for ZD), A/T FLUID TEMPERATURE (LOW/HIGH), O/D OFF SW, ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (F29 for AB), TCM (TRANSMISSION CONTROL MODULE) (M815 for A), BRAKE FLUID LEVEL SWITCH (M507), and PARKING BRAKE SWITCH (B23). The diagram also shows the internal circuitry of the meter, including the CHARGE indicator, A/T OIL TEMP. indicator, O/D OFF INDICATOR, and the PRE-CE- DING PAGE input. The diagram includes a legend for the combination meter (M837, M838) and the meter models (A, AB, OA). The legend also includes a note for the Y/B and B terminals (*1 Y/B : (AB), B : (OA)).

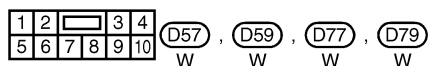
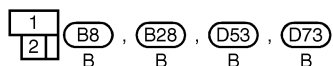
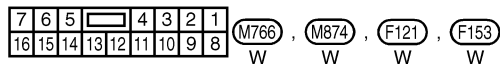
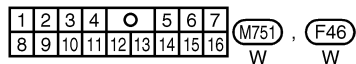
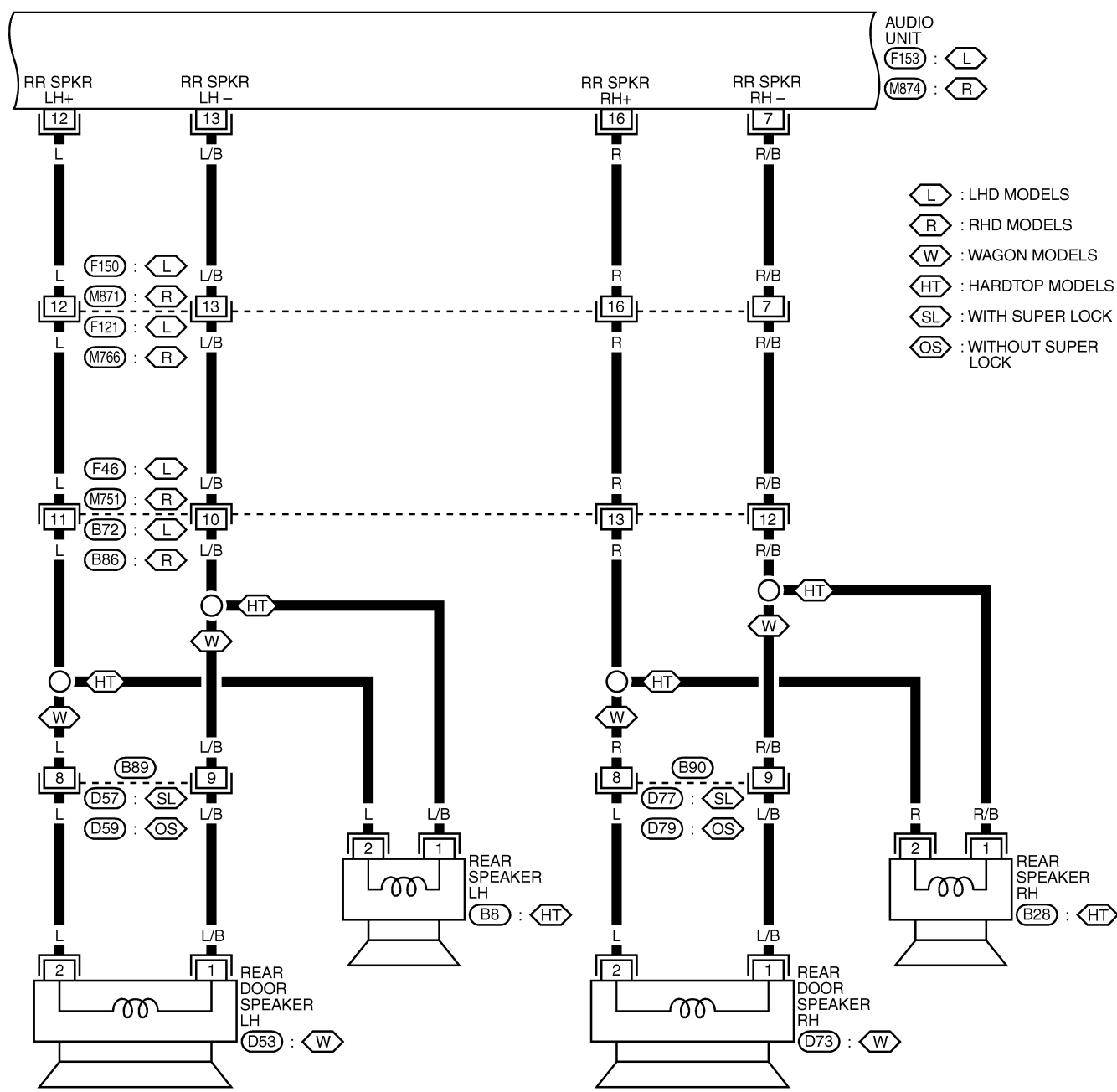


(F29) -ELECTRICAL UNITS

AUDIO

TYPE 2

EL-AUDIO-06



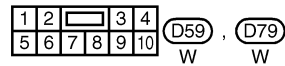
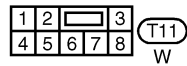
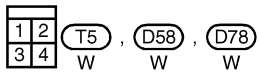
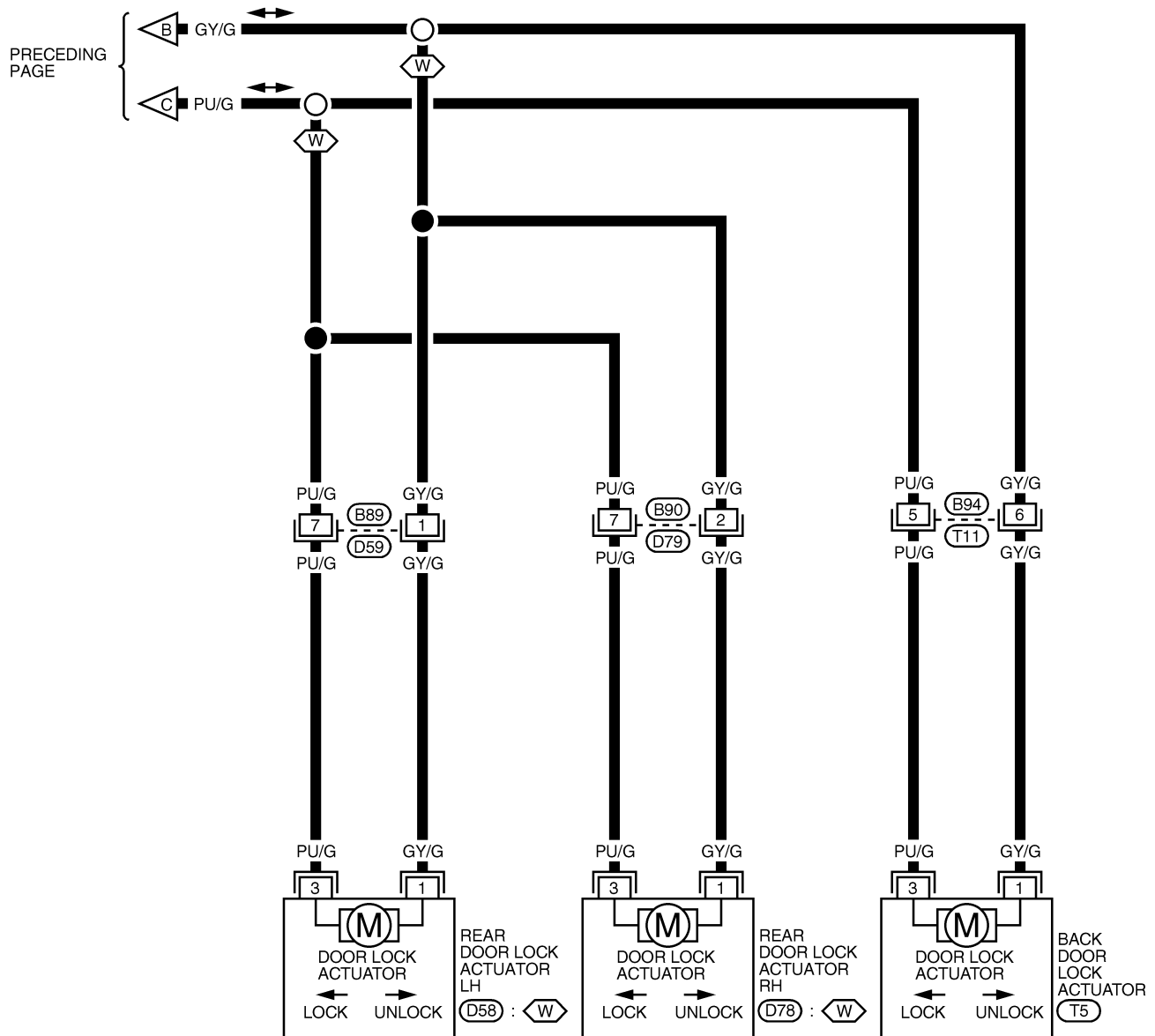
POWER DOOR LOCK

Wiring Diagram — D/LOCK — (Cont'd)

LHD MODELS

EL-D/LOCK-05

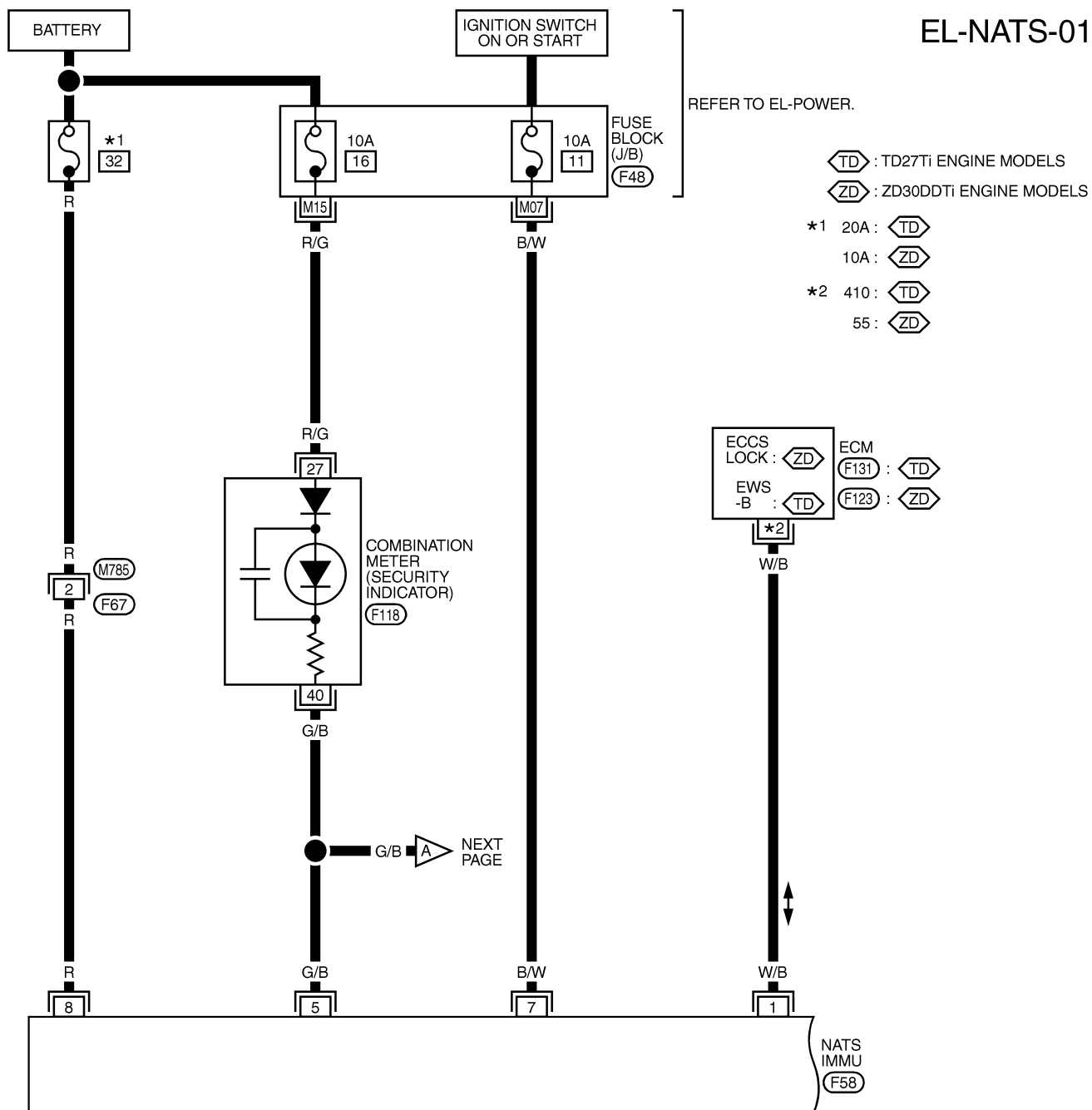
⬡W⬡ : WAGON MODELS



Wiring Diagram — NATS —

LHD MODELS

EL-NATS-01



REFER TO THE FOLLOWING.

- (F48) -FUSE BLOCK-
- JUNCTION BOX (J/B)
- (F123) , (F131)
- ELECTRICAL UNITS

Trouble Diagnoses (Cont'd)

DIAGNOSTIC PROCEDURE 4

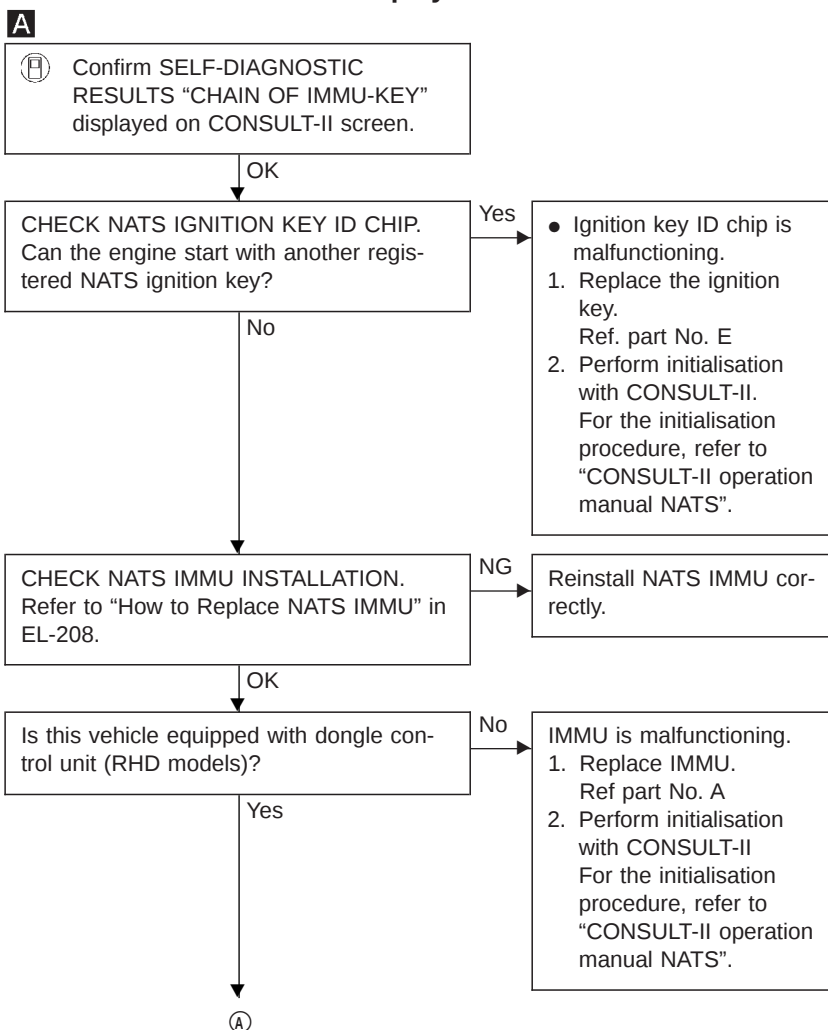
Self-diagnostic results:

“CHAIN OF IMMU-KEY” displayed on CONSULT-II screen

A

SELF DIAGNOSIS	
DTC RESULTS	TIME
CHAIN OF IMMU-KEY	0

YEL480B

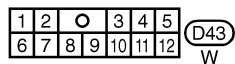
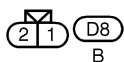
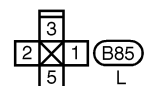
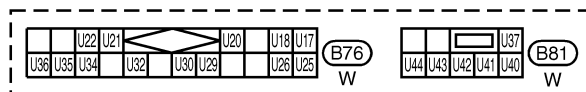
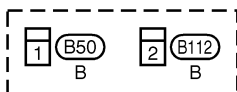
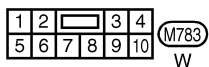
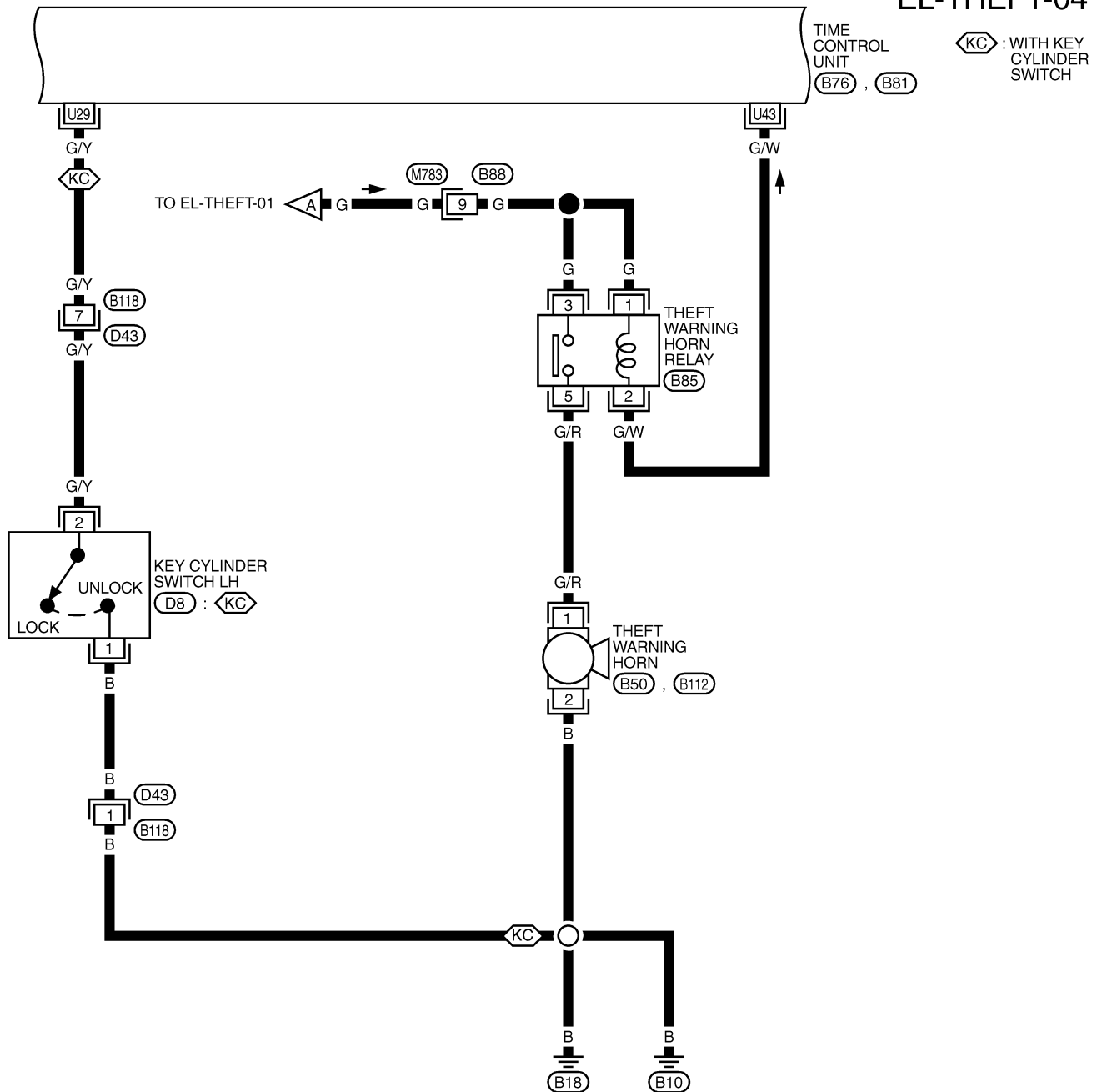


THEFT WARNING SYSTEM

Wiring Diagram — THEFT — (Cont'd)

LHD MODELS

EL-THEFT-04



YEL174D

LOCATION OF ELECTRICAL UNITS

Passenger Compartment/RHD Models

