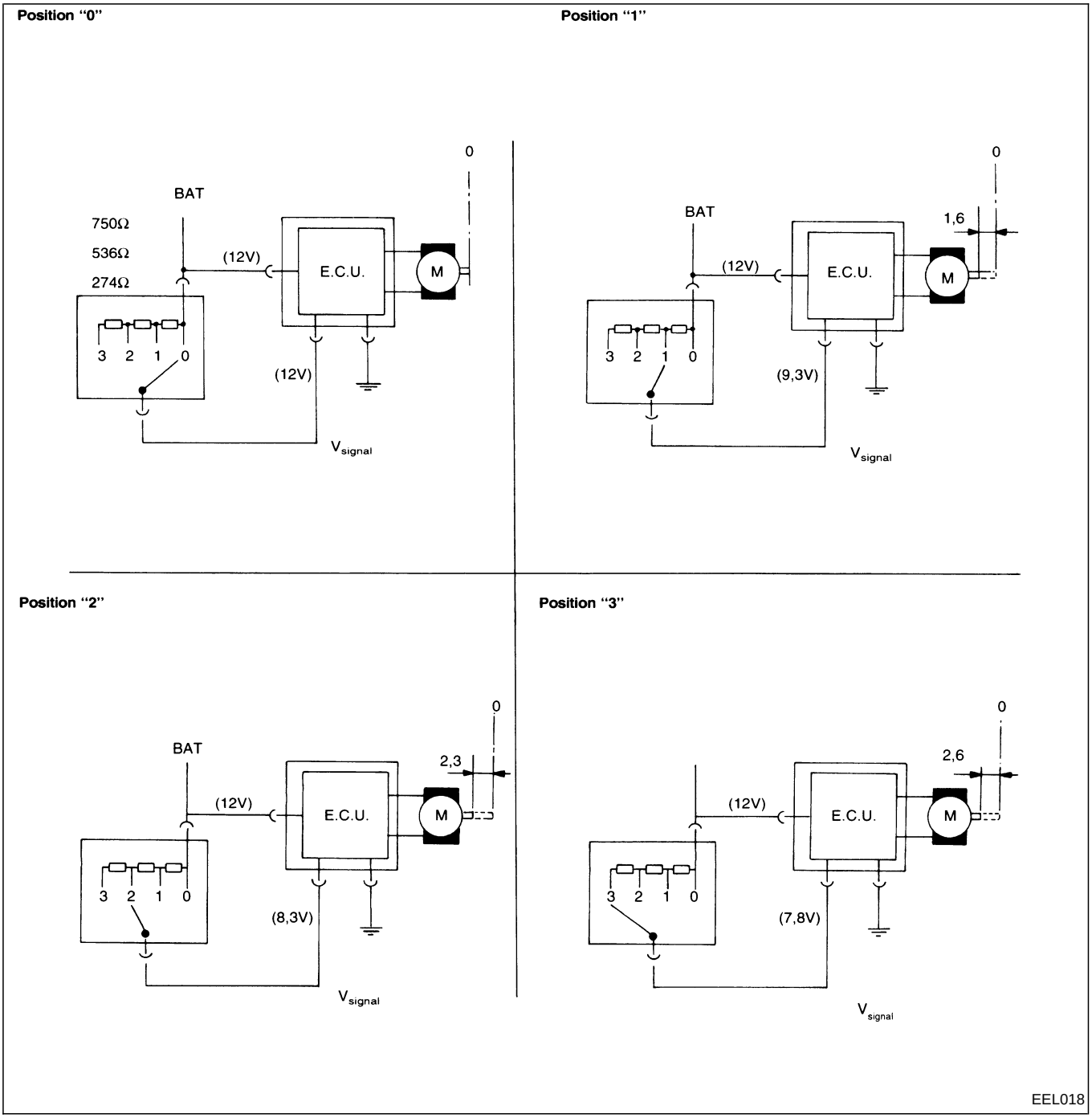
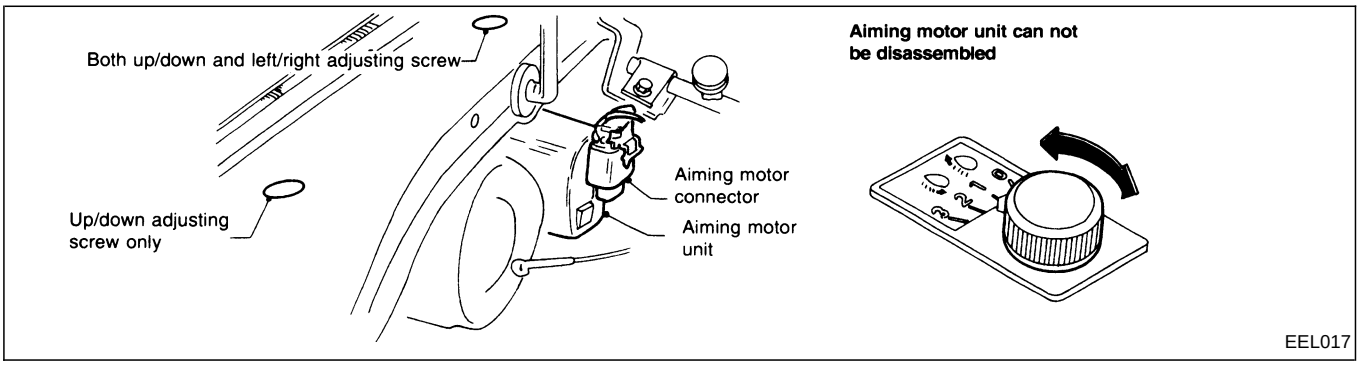
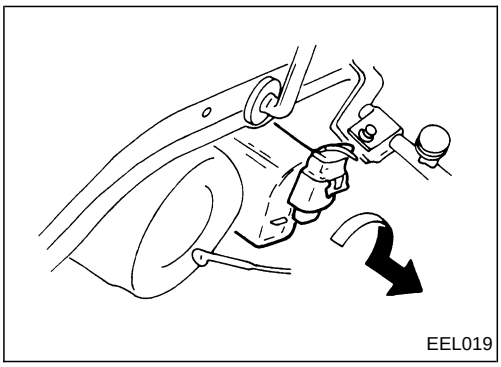
Description

- The vertical direction of the headlamp projection can be adjusted from inside the vehicle to prevent the headlamp beam axis from facing upward due to a change in the number of occupants and load conditions in the vehicle.
- A little Electronic Control Unit (ECU) is incorporated in each actuator (one for each headlamp), which compares a signal voltage (V_{signal}), coming from the headlamp aiming switch, with battery voltage (12V). The signal voltage varies with the position of the switch.
  Related to the difference in voltage the actuator rod will move more or less and adjust the headlamp beam angle accordingly.



Description (Cont'd)





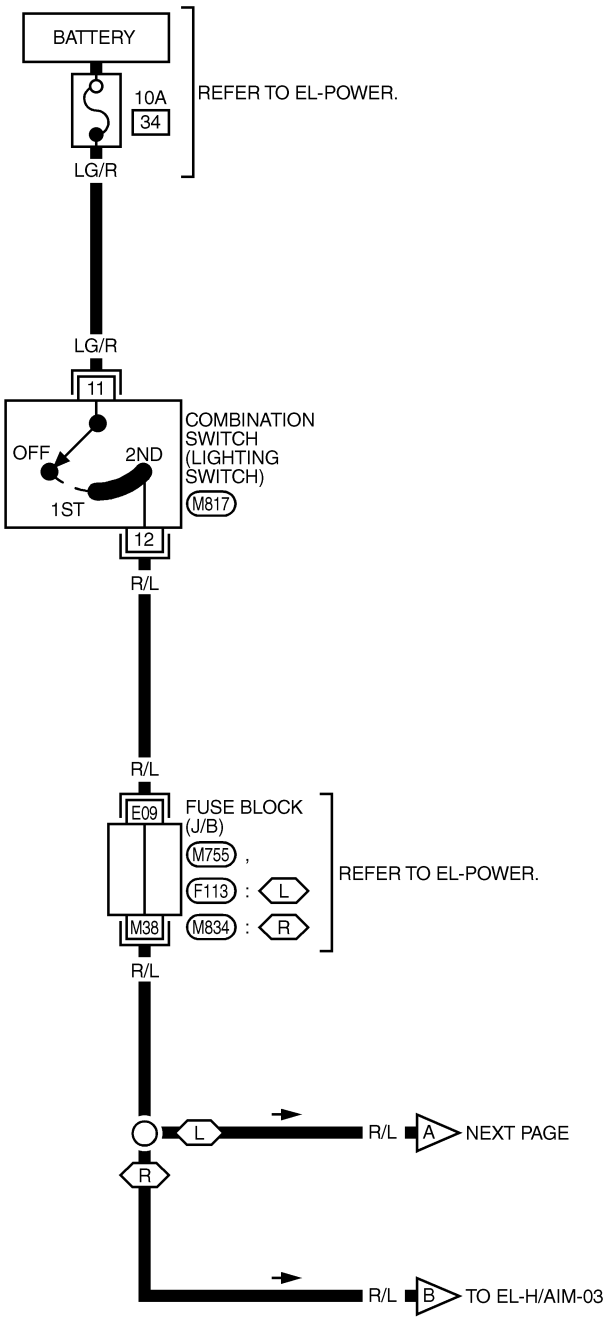
Replacing Headlamp Aiming Actuator

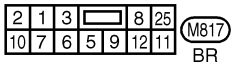
Headlamp aiming actuator can not be disassembled.
To remove aiming actuator, turn it 90° to the center of the vehicle (left and right symmetrical) and pull outward.

Wiring Diagram — H/AIM —

EL-H/AIM-01

L : LHD MODELS
R : RHD MODELS





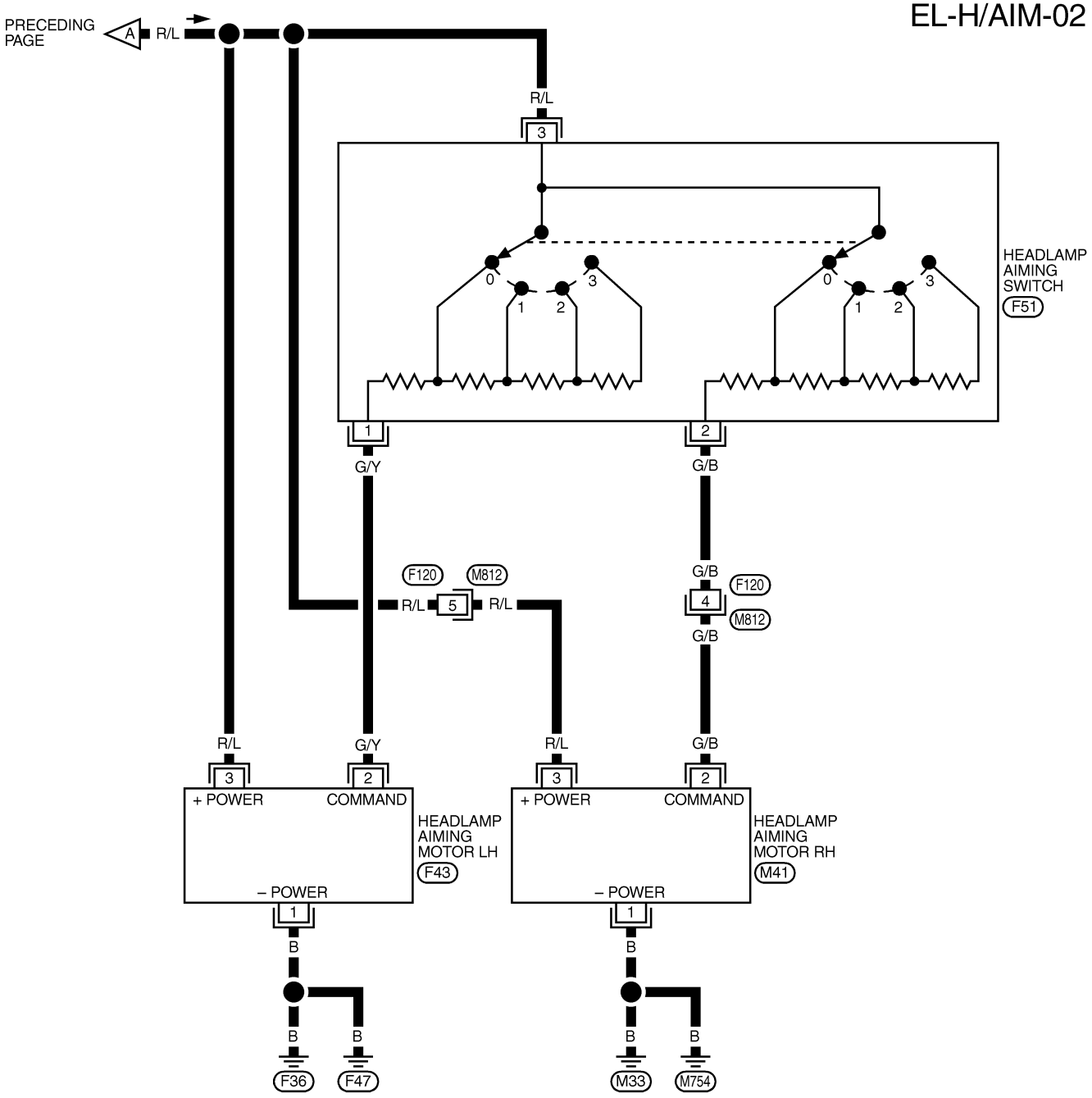
REFER TO THE FOLLOWING.
M755 , M834 , F113
-FUSE BLOCK-
JUNCTION BOX (J/B)

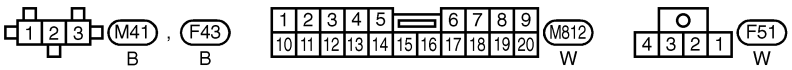
YEL068D

Wiring Diagram — H/AIM — (Cont'd)

LHD MODELS

EL-H/AIM-02

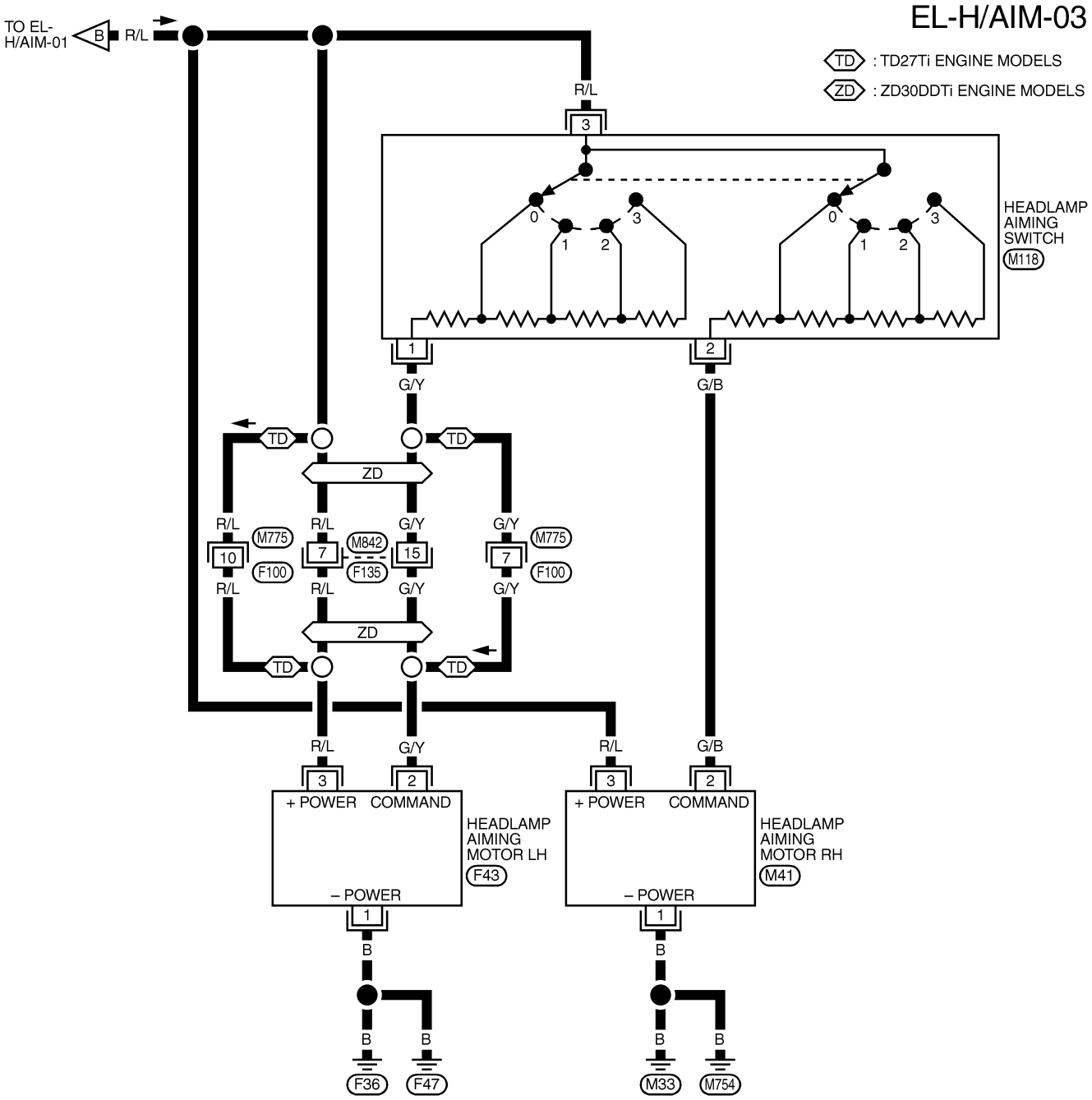


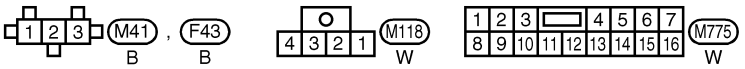


YEL069D

Wiring Diagram — H/AIM — (Cont'd)

RHD MODELS

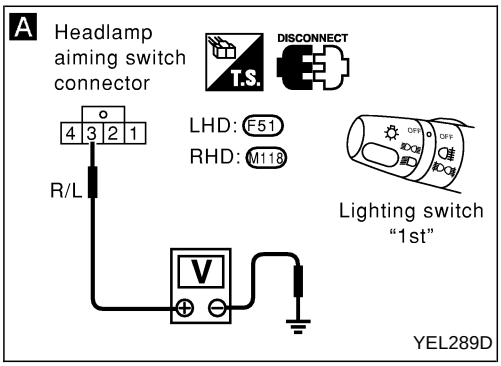




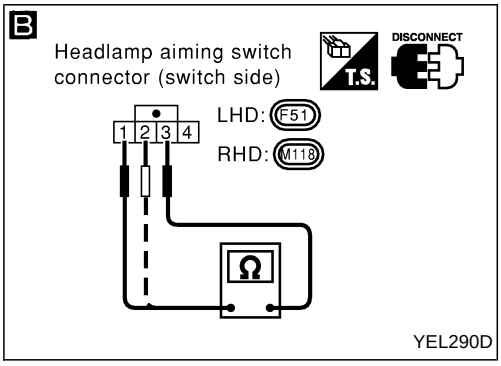
REFER TO THE FOLLOWING.
F135 -SUPER MULTIPLE JUNCTION (SMJ)

YEL070D

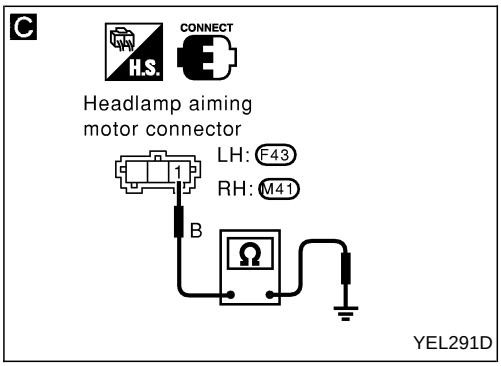
A



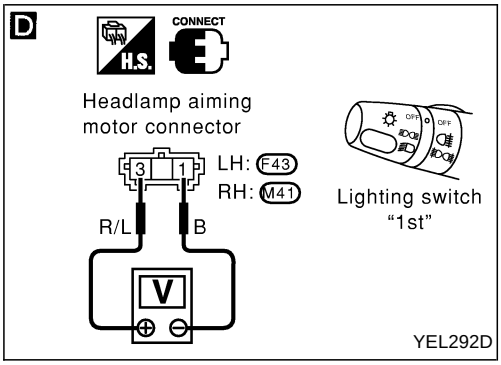
B



C



D



Trouble Diagnoses

SYMPTOM: Headlamp aiming does not operate.

A

POWER SUPPLY CIRCUIT CHECK
(For aiming switch)
- Disconnect headlamp aiming switch connector.
- Turn lighting switch to 1st. position.

Check if voltage between headlamp aiming switch connector terminal ③ and body ground.

Voltmeter terminals		Voltage [V]
(+)	(−)	
③	Ground	Approx. 12

NG → Check the following:
- 10A fuse at fuse block (Refer to "POWER SUPPLY ROUTING", EL-6).
- Condition and operation of ignition switch.
- Battery charge condition.

If NG, replace 10A fuse, recharge battery or repair ignition switch.

OK ↓

B

AIMING SWITCH CHECK
Check resistance between headlamp aiming switch connector (switch side) terminals ①/② and ③ at each switch position.

Switch position	Ohmmeter terminals	
	① / ②	③
0	below 10W	
1	743 — 757W	
2	1,274 — 1,298W	
3	1,545 — 1,575W	

NG → Replace headlamp aiming switch

OK ↓

C

GROUND CIRCUIT CHECK FOR AIMING MOTOR
- Connect headlamp aiming switch connector.

Check continuity between headlamp aiming motor connector terminal ① and body ground.

Continuity exists ... OK

NG → Repair harness or connectors between aiming motor and body ground.

OK ↓

D

POWER SUPPLY CIRCUIT CHECK
(For aiming motor unit)
- Turn lighting switch to 1st. position

Check if 12 volts exist between headlamp aiming motor connector terminals ① and ③.

NG → Check harness between headlamp aiming switch and aiming motor unit.

OK ↓

Replace aiming motor unit.