

## FAIL-SAFE CHART

### 1. HEADLAMP BEAM LEVEL CONTROL ECU

- (a) If the headlamp beam level control ECU detects the following malfunctions, it performs the fail safe control, blinks the master warning lamp in the combination meter, and displays "AUTO LEVELING WARNING" on the multi-display.
- (b) \*1: Stops the actuator operation.  
\*2: Replaces the minimum or maximum value of the actuator's operating range with the calculated value.

Item	Condition to transfer	Condition to return	Warning indication
Over voltage (*1)	Detects input voltage of more than 18.5 V	Detects less than 17.5 V	Appears
Low voltage (*1)	Detects input voltage of less than 9 V	Detects more than 9.3 V	Does not appear
Vehicle height sensor malfunction (*1)	<ul style="list-style-type: none"> <li>• Detects vehicle height sensor supply voltage of less than 4 V</li> <li>• Detects vehicle height signal malfunction (not within 0.5 V and 4.5 V)</li> <li>• Vehicle height sensor power source supply line is open, or short to GND</li> <li>• Vehicle height sensor GND line is open</li> </ul>	Detects normal voltage for 5 sec.	Appears
Microcomputer (*1)	Detects ECU malfunction	Cancels reset of microcomputer	Appears
Leveling angle calculation value (*2)	Calculates values out of the actuator's operative range	–	Does not appear

### 2. MULTIPLEX NETWORK BODY ECU (CONLIGHT CONTROL)

- (a) The multiplex network body ECU keeps the headlamp or taillamp on if there is a malfunction in the light sensor systems while the headlamp is on due to the conlight control (headlamp dimmer switch is in AUTO position).
- (b) The multiplex network body ECU prohibits conlight control if there is a malfunction in the sensor systems when the headlamp goes off.