



Description

According to driving environment and loading state of vehicle, headlamp lighting direction is changed to keep the driver's visibility range and to protect the driver's vision from glare, aiming at safety driving.

Sensor integrated ECU mounted on the rear center arm drives the actuator mounted on the headlamp after sensing the input signal for the static change of vehicle.

Headlamp beam is automatically operated by chassis tilt.

Operation

Operating Procedure

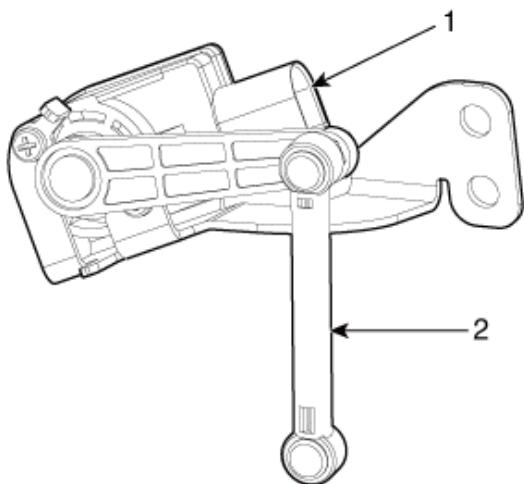
1. Suspension angle change resulted from vehicle's load change.
2. Sensor angle change.
3. Microprocessor calculates necessary headlamp angle change amount.
4. Sending a proper signal to headlamp leveling device and driving actuator.

Operating Condition

1. Ignition on
2. Low beam on
3. On stop : If sensor lever change is 0.3° and above, headlamps are operated after max. 1.5 seconds.
4. On driving : If vehicle velocity is over 4 km/h (2.48 mph), velocity change is not over 0.8 - 1.6 km/h (0.5 - 1.0 mph) per second, and loading condition is changed, then headlamps are operated.

Components

1. Auto headlamp leveling unit
 - (1) Leveling unit & sensor
 - (2) Sensor mounting bracket
 - (3) Sensor linkage



- Using a micro-processor, detect the operation level's change in mechanical angle and speed signal.
- A device mounted on the rear center arm controls the actuator via internal control program.