

## GROUP 54A

# CHASSIS ELECTRICAL

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BATTERY

GENERAL INFORMATION

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|                                                                           |        |
|---------------------------------------------------------------------------|--------|
| Item                                                                      | 80D26L |
| Voltage V                                                                 | 12     |
| Capacity (5-hour rate) Ah                                                 | 55     |
| Electrolytic fluid specific gravity [fully charged state at 20°C (68° F)] | 1.280  |

LIGHTING

GENERAL INFORMATION

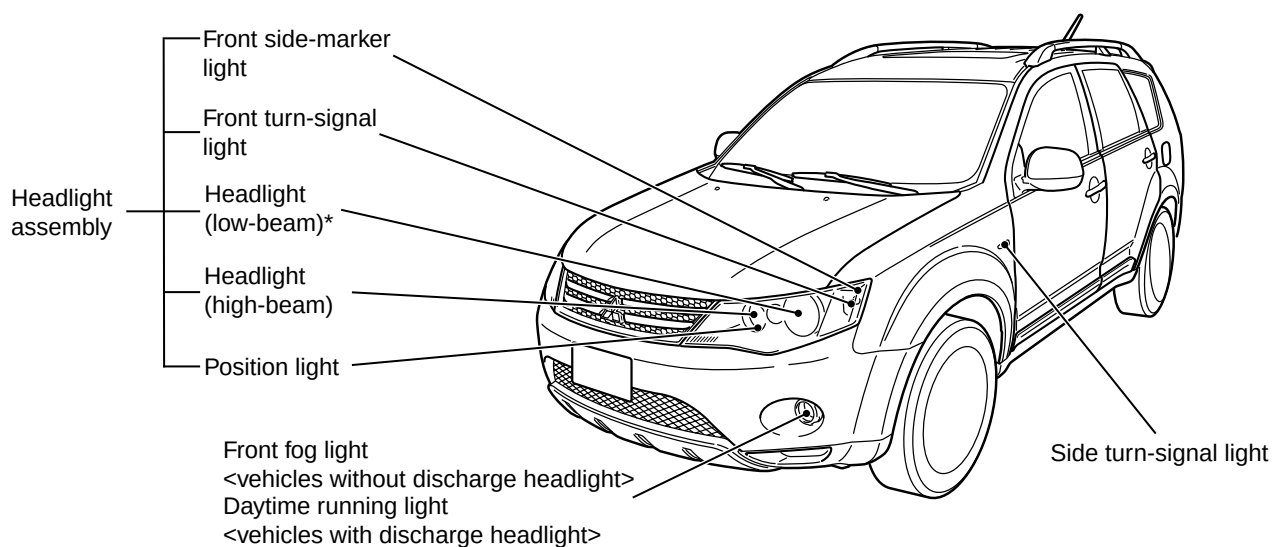
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- For exterior lights, the headlight assemblies, front fog lights <vehicles without discharge headlight> and daytime running light\* have been installed to the front of the vehicle, the side turn-signal lights to the sides of the vehicle (to the fender panel), and the rear combination light assemblies, tail light assemblies, rear side marker lights, license plate lights, and high-mounted stop lights to the rear of the vehicle.
- Even if the headlight assembly bracket is damaged, the damaged bracket can be replaced.
  - For interior lights, the front dome light, rear dome light, luggage compartment light, glove box light, center console down light, foot light, and ignition key cylinder illumination lights have been installed.
- NOTE: \*: Vehicles for halogen headlight: Headlight low-beam decrease in lights. Vehicles without discharge headlight: Light only for daytime running light.*

## EXTERIOR LIGHTS

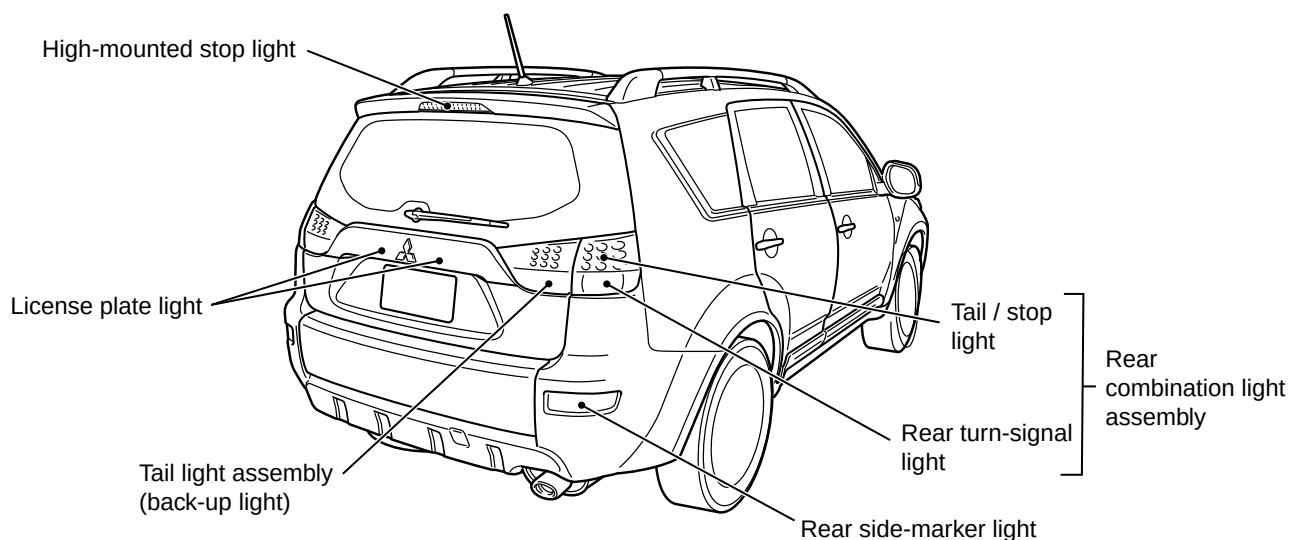
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### Construction diagram



NOTE: \*:
   
<Vehicles for halogen headlight>
   
Headlight (low-beam) + daytime running light
   
<Vehicles for discharge headlight>
   
Headlight (low-beam)

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ZC5018070000

- The headlight assembly employs the large four-light integrated with the front turn-signal light, position light and front side-marker light.
- Uncut lenses have been adopted to the headlight lens for an improved appearance.

- The newly adopted discharge headlight for low-beam provides a much better view than ordinary halogen lights. <XLS model (Option)>

- For the low-beam of the headlight, the headlight automatic leveling system vehicle with discharge headlight have been adopted so that the height adjustment of the optical axis can be performed depending on the vehicle load status.
- The side turn-signal lights have been installed to the fender.
- The rear combination lights are integrated with the tail/stop light and rear turn-signal light.
- The LED type tail/stop lights have been adopted for less power consumption and higher safety with illumination speed improvement.
- The back-up light has been integrated into the tail light assembly.
- The LED-type high-mounted stop light has been integrated into the tailgate spoiler.
- The lighting system is provided with headlight automatic-shutdown function and daytime running light function (Refer to P.54A-10).
- For the flasher timer function of turn-signal, the comfort flasher function has been adopted to improve the operability when changing the lane. When the turn-signal light switch (lighting switch) is operated for a short time, this function flashes the turn-signal light of the operated direction three times (Refer to P.54A-10).

### Specifications

| Item                                                        |                                  |             |
|-------------------------------------------------------------|----------------------------------|-------------|
| Headlight assembly <vehicles without discharge headlight>   | High-beam W <halogen headlight>  | 60 (HB3)    |
|                                                             | Low-beam W <halogen headlight>   | 51 (HB4)    |
|                                                             | Position light W                 | 5 (W5W)     |
|                                                             | Front turn-signal light W        | 21 (WY21W)  |
|                                                             | Front side-marker light W        | 5 (W5W)     |
| Headlight assembly <vehicles with discharge headlight>      | High-beam W <halogen headlight>  | 60 (HB3)    |
|                                                             | Low-beam W <discharge headlight> | 35 (D2R)    |
|                                                             | Position light W                 | 5 (W5W)     |
|                                                             | Front turn-signal light W        | 21 (WY21W)  |
|                                                             | Front side-marker light W        | 5 (W5W)     |
| Front fog light <vehicles without discharge headlight> W    |                                  | 55 (H11)    |
| Daytime running light <vehicles with discharge headlight> W |                                  | 27 (1156LL) |
| Side turn-signal light W                                    |                                  | 5 (W5W)     |
| Rear combination light assembly                             | Tail/stop light                  | LED type    |
|                                                             | Rear turn-signal light W         | 21 (WY21W)  |
| Tail light assembly                                         | Back-up light W                  | 21 (W21W)   |
| Rear side-marker light W                                    |                                  | 5 (W5W)     |
| High-mounted stop light                                     | Integrated in liftgate spoiler   | LED type    |
| License plate light W                                       |                                  | 5 (W5W)     |

**NOTE:** The brackets ( ) show the bulb type.

### Headlight automatic leveling system

The beam direction (vertical angle) of the headlights changes according to the number of passengers and the amount of load. The headlight automatic leveling system is a system that automatically controls the

beam direction of headlights so that the drivers of oncoming cars are not dazzled by the headlights if the beam direction of the headlight upwards when parking or driving at a constant speed.

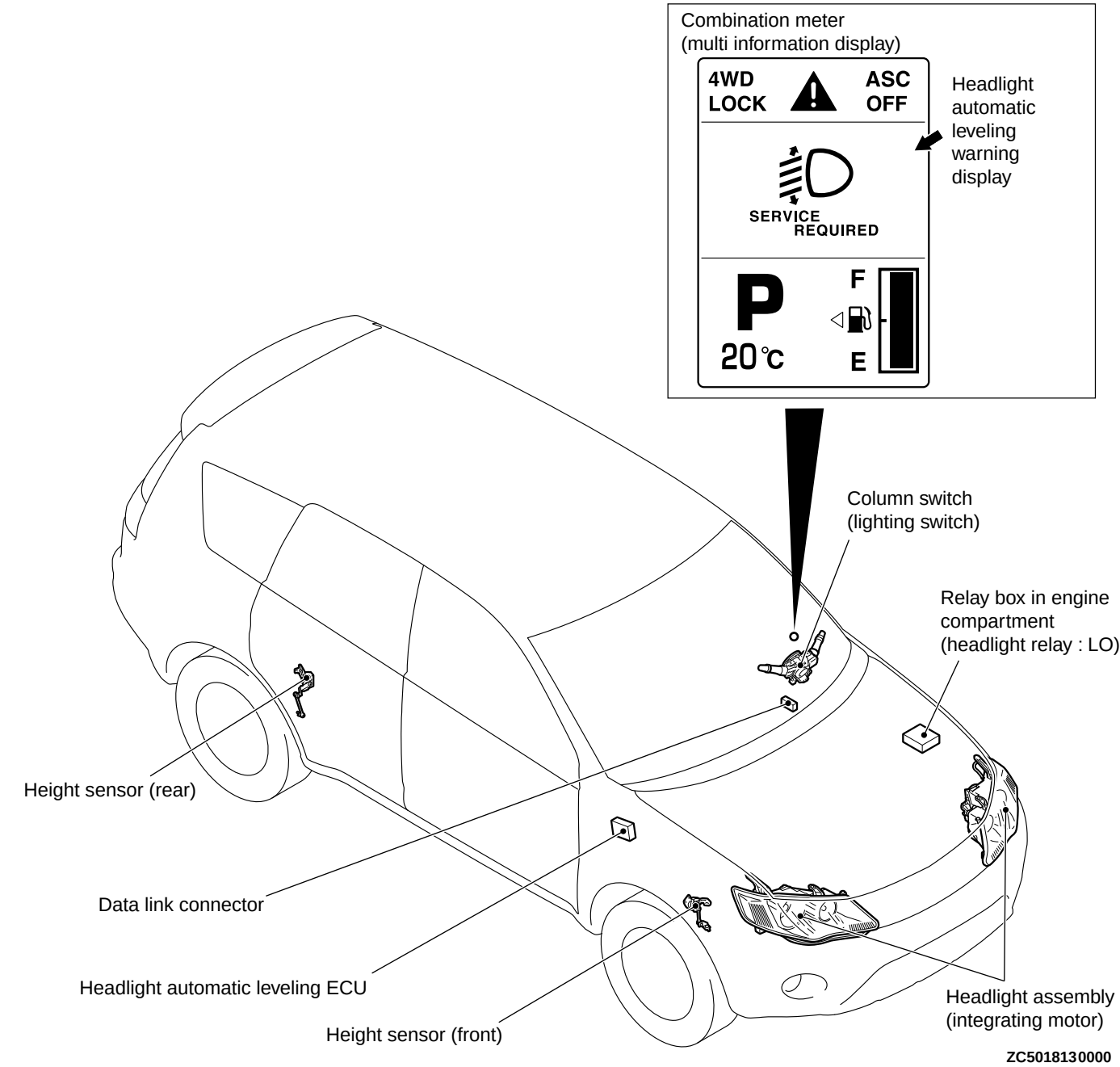
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**Function**

The beam direction of headlights is automatically controlled according to driving conditions as described in the table below.

| Vehicle condition                | Control content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| When parking                     | The headlight automatic leveling ECU calculates the vehicle pitch angle from the height sensor values according to the change in load resulting from getting on/off or loading/unloading to control the beam direction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| When driving at a constant speed | When a vehicle starts on curb, the traveling vehicle posture changes from the posture during parking, so that the beam direction changes. To control the improper beam direction caused by such vehicle posture change, the headlight automatic leveling ECU calculates the vehicle pitch angle based on the average of height sensor values obtained for 12 seconds after the vehicle speed becomes constant. This beam direction control while driving at a constant speed is performed only once between a vehicle stop and the next stop. If driving is started at a constant speed on the gravel or rough road, to prevent unnecessary control resulting from detection of road uneven surface, the beam direction control is launched after the driving speed becomes constant on pavement. |

Construction diagram

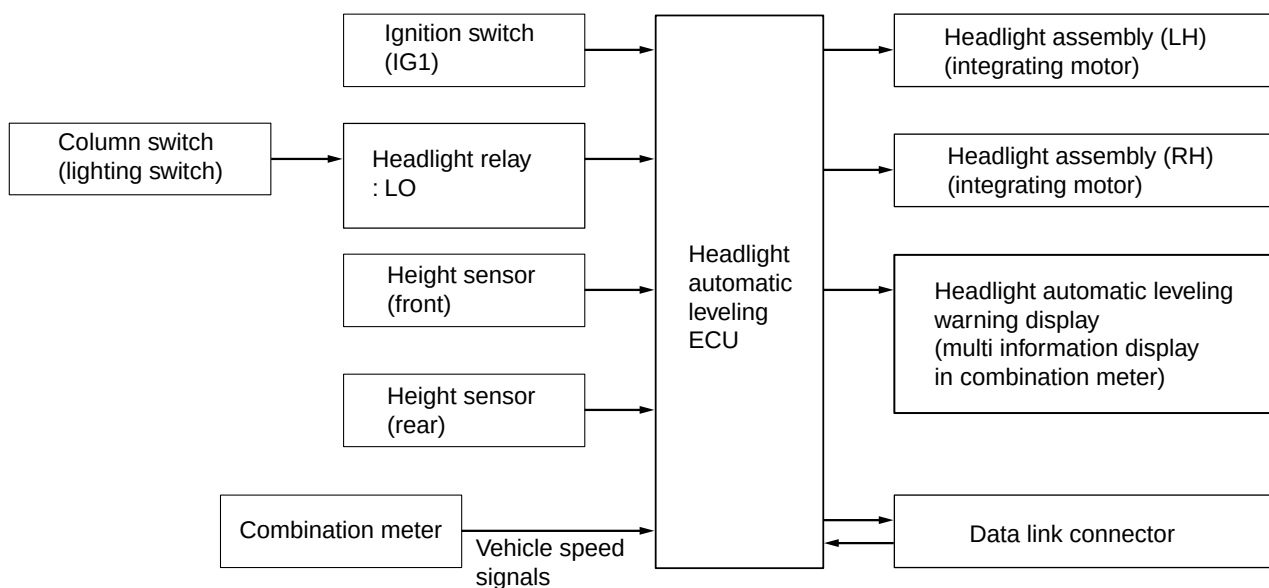


System component and function

| Parts name                      | Functional description                                                                                                                                                                     |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column switch (lighting switch) | When the lighting switch is set to the headlight position, the headlight relay (LO) inside the engine compartment turns ON to transmit the signal to the headlight automatic leveling ECU. |
| Height sensor (Front)           | Detects the elongation/contraction of the front suspension and transmits the signal to the headlight automatic leveling ECU.                                                               |

|                                              |                                                                                                                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height sensor (Rear)                         | Detects the elongation/contraction of the rear suspension and transmits the signal to the headlight automatic leveling ECU.                                            |
| Combination meter                            | Transmits the vehicle speed signals to the headlight automatic leveling ECU.                                                                                           |
| Headlight assembly (integrating motor)       | Drives the headlight reflector by receiving signals from the headlight automatic leveling ECU.                                                                         |
| Headlight automatic leveling warning display | Lights up on the multi-information display in the combination meter to warn the driver that an abnormality occurs in the headlight automatic leveling system.          |
| Headlight automatic leveling ECU             | Controls the motor integrated in the headlight assembly based on the signals from switches and sensors to control the beam direction according to the vehicle posture. |
| Data link connector                          | Outputs diagnosis codes.                                                                                                                                               |

### System block diagram

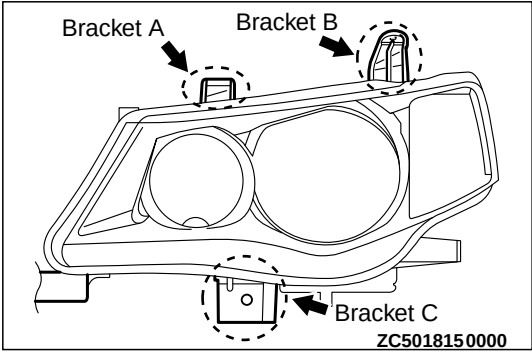


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### Fail-safe function

| Trouble spot                             | Trouble condition     | Headlight automatic leveling warning display | Countermeasures for trouble               |
|------------------------------------------|-----------------------|----------------------------------------------|-------------------------------------------|
| Height sensor                            | Open or short circuit | Warning display                              | Control stop                              |
| Vehicle speed signal                     | Open or short circuit | -                                            | Judges as parking, and continues control. |
| Motor (integrated in headlight assembly) | Open circuit          | -                                            | Control stop                              |
|                                          | Short                 | Warning display                              | Control stop                              |
| Headlight automatic leveling ECU         | Open or short circuit | -                                            | Control stop                              |
|                                          | ECU is out of control | -                                            | Program reset by ECU self-diagnosis       |

|                  |                       |   |              |
|------------------|-----------------------|---|--------------|
| Headlight signal | Open or short circuit | - | Control stop |
|------------------|-----------------------|---|--------------|

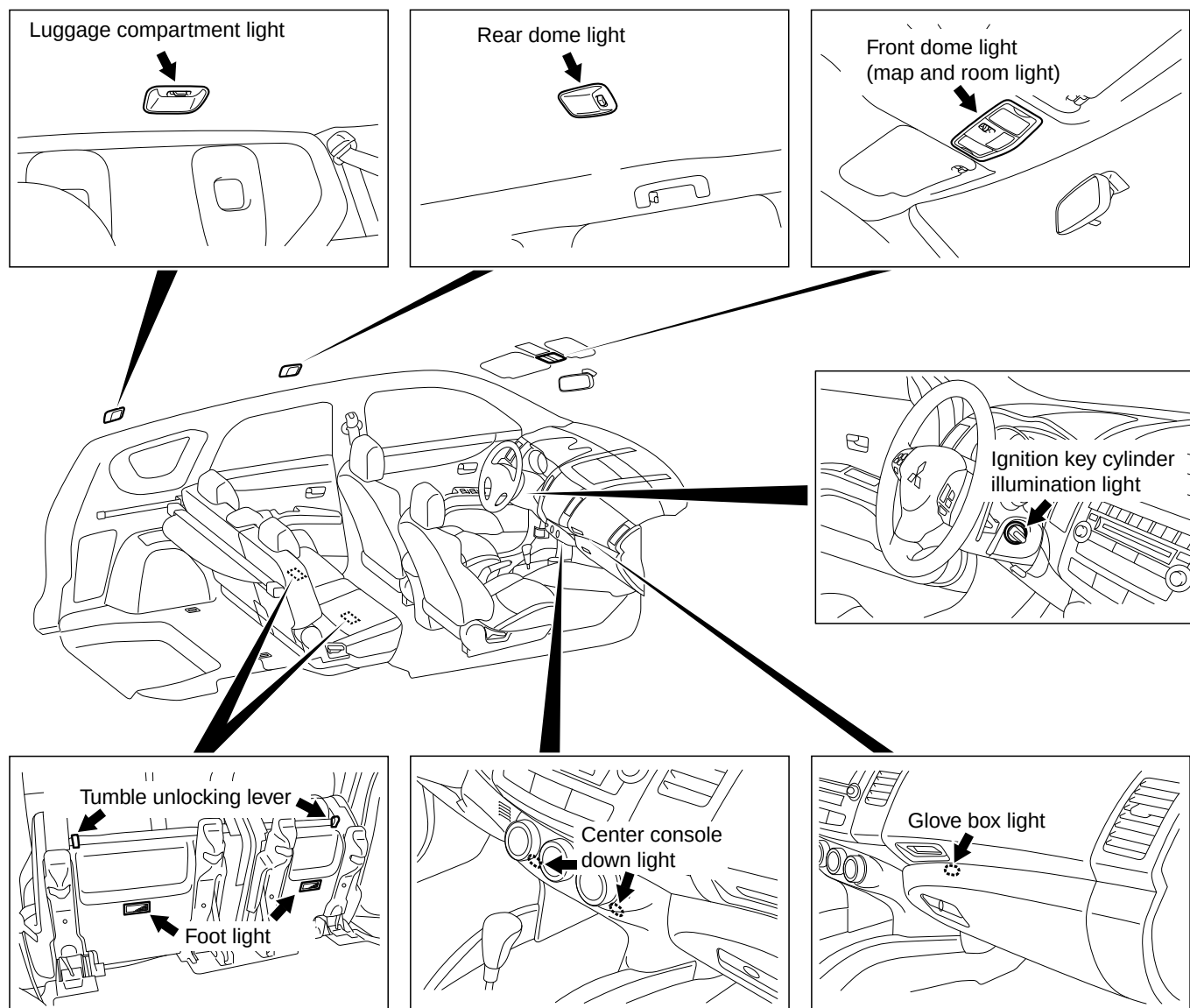


**Bracket repair of the headlight assembly**

When only brackets A, B, or C shown in the figure are damaged, a low-cost repair can be performed by mounting a repair bracket. For the repair procedures, refer to Workshop Manual.

## INTERIOR LIGHT

### Construction diagram



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- A front dome light, installed to the front part of the roof, has been equipped with the lens-push type map and dome light which can be operated easily from the driver's and front passenger's seat, offering excellent operability for turning on and off the light.
- The rear dome light, which illuminates the rear passenger's seat, is installed above the second seat.
- The luggage compartment light is installed to the upper part of the luggage compartment.
- A glove box light has been added to the glove box.
- The center console down light has been installed to the upper surface of the center lower box.
- To provide safety for the foot area when getting into or off the third seat, foot lights have been installed to the backside of the second seat cushion. The foot light is turned ON and illuminates the foot area of third seat for approximately 10 seconds when the tumble unlocking lever is operated to return the second seat to a seat occupancy position.

▪A ignition key cylinder light has been added to the ignition key cylinder.

▪The dimmer interior light control function and ignition key cylinder illumination light control function have been adopted for the interior light (Refer to Function and Control by ETACS-ECU P.54A-10).

### Specifications

| Item                                               | Specifications |
|----------------------------------------------------|----------------|
| Front dome light (map and dome light) W × quantity | 8 × 2          |
| Rear dome light W                                  | 8              |
| Luggage compartment light W                        | 8              |
| Glove box light W                                  | 1.4            |
| Center console down light W                        | LED type       |
| Foot light W                                       | 1.4            |
| Ignition key cylinder illumination light W         | 1.5            |

### FUNCTION AND CONTROL BY ETACS-ECU.

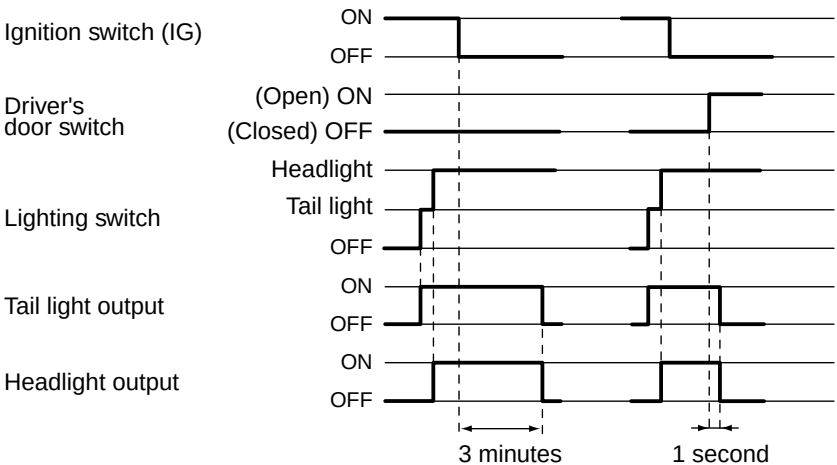
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Following functions are controlled by ETACS-ECU.

| Function                                         |                                                           | Function description |
|--------------------------------------------------|-----------------------------------------------------------|----------------------|
| Headlight                                        | Headlight automatic-shutdown function                     | P.54A-10             |
| Flasher timer function                           | Turn-signal light                                         | P.54A-12             |
|                                                  | Comfort flasher function                                  | P.54A-12             |
|                                                  | Hazard warning light                                      | P.54A-12             |
| Daytime running light                            | Daytime running light function                            | P.54A-13             |
| Fog light <Vehicles without discharge headlight> | Fog light function                                        | P.54A-14             |
| Interior light                                   | Interior light dimmer control function                    | P.54A-15             |
|                                                  | Interior light automatic-shutoff function                 | P.54A-16             |
|                                                  | Ignition key cylinder illumination light control function | P.54A-16             |

## HEADLIGHT

**HEADLIGHT AUTOMATIC-SHUTDOWN FUNCTION THE INITIAL CONDITION: WITH FUNCTION>**  
(Specification C: When the ignition switch is in OFF position is turned ON, the headlights are not turned OFF automatically.)



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Even when the lighting switch (tail light switch or headlight switch) is ON, the headlight (including the tail lights) turns off automatically under any of the following conditions to prevent the battery discharge caused by unattended operation.

- If the ignition switch is turned OFF with the lighting switch ON, the light turns off automatically after 3 minutes. If the driver's door is opened during the 3 minutes, the light turns off after one second. (One seconds before turning off, the light reminder tone alarm sounds. However, if the driver's door is opened with the ignition key inserted, the key

reminder alarm tone alarm operates in the first priority).

- If the lighting switch is turned to the tail light position from OFF with the ignition switch OFF, the lights do not turn off automatically.

*NOTE: The auto-turn off can be made by the customize function (Refer to P. 54A-17).*

After this function is activated, when the lighting switch is turned OFF and then ON or the ignition switch is turned ON, the headlights illuminate again.

*NOTE: This function can be cancelled through customization (Refer to Customize Function P. 54A-17).*

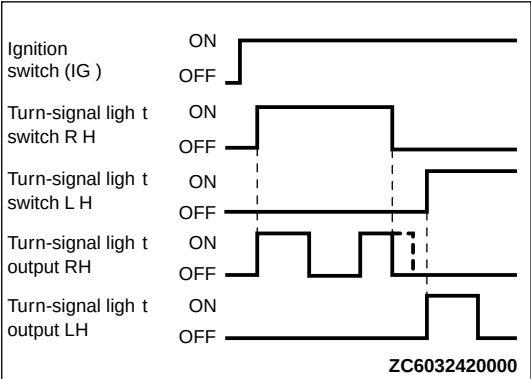
FLASHER TIMER FUNCTION

TURN-SIGNAL LIGHT (INITIAL SETTING: TURN SIGNAL LIGHT CAN BE OPERATED WHEN THE IGNITION SWITCH IS IN THE ON POSITION)

When the turn-signal light switch is ON (LH or RH) with the ignition switch is ON, the turn-signal light output (flash signal) is turned ON.

If the light bulb of the front or rear turn-signal light has burned out, the flashing speed becomes faster to alert the driver that the light bulb has burned out.

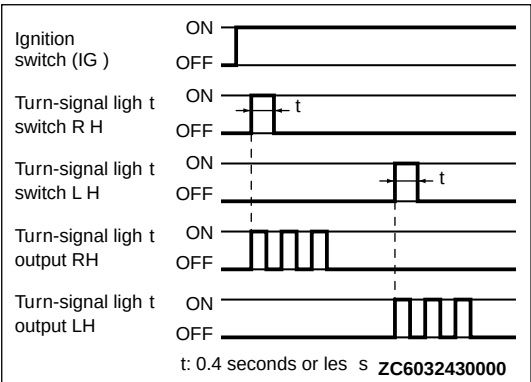
*NOTE: Using a customization function, this function becomes available even when the ignition switch is in the ACC position. For more information about the customization feature, refer to P. 54A-17.*



COMFORT FLASHER FUNCTION (THE INITIAL CONDITION: WITH FUNCTION)

With the ignition switch in the ON position, when the turn signal switch is turned ON momentarily (0.4 second or less), ETACS-ECU turns ON the turn signal light output, and flashes the turn signal light three times.

*NOTE: The comfort flasher function can be cancelled through customization. (Refer to Customize Function P. 54A-17.)*

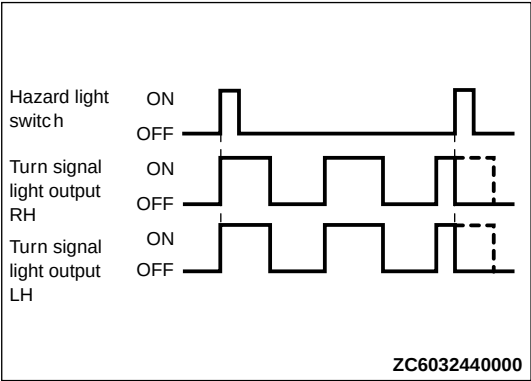


HAZARD WARNING LIGHT

ETACS-ECU detects the signal that changes the hazard light switch from OFF to ON, and reverses the flashing state by the signal (to the flashing state when the hazard light is not flashing, and to the turned OFF state when flashing).

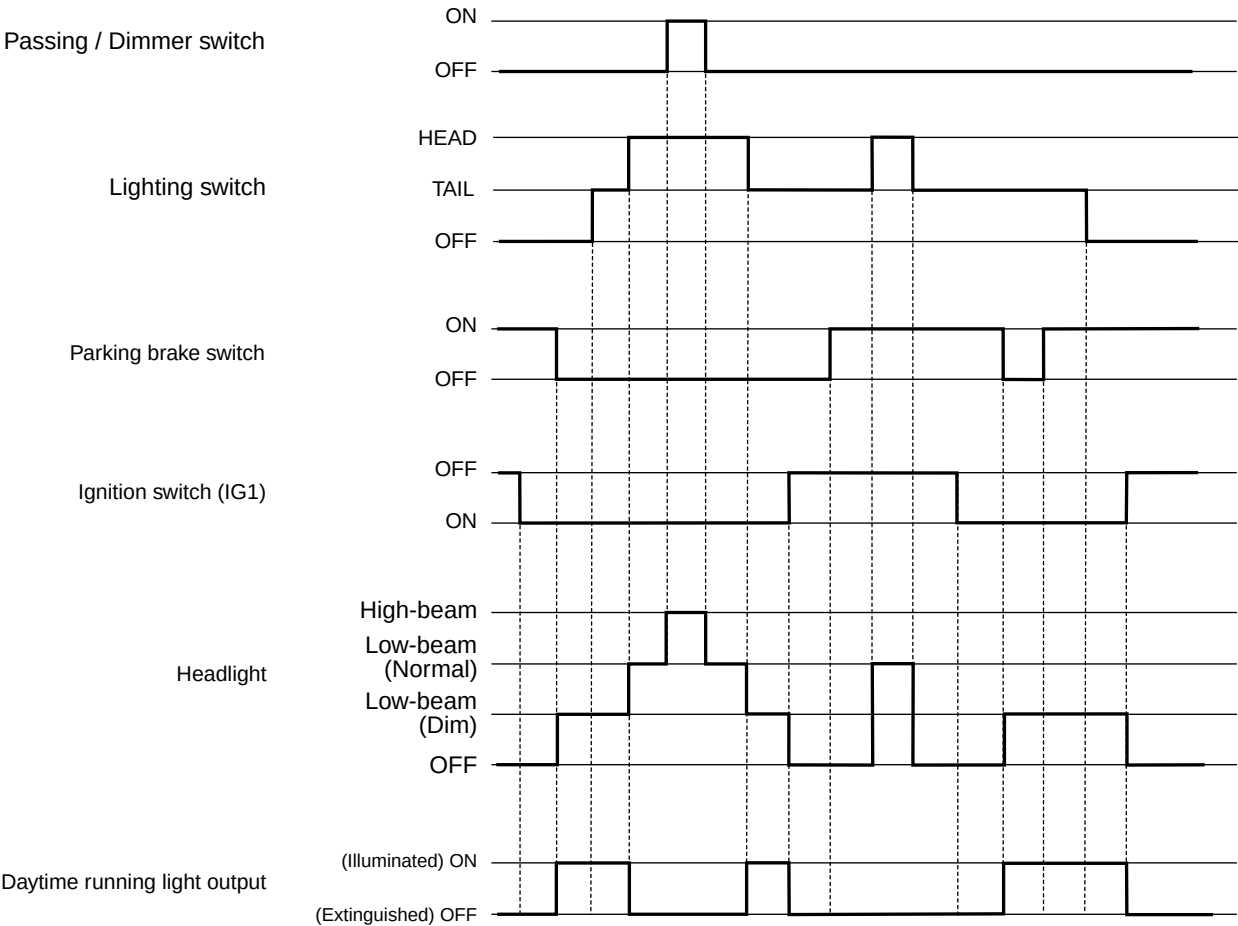
*NOTE:*

1. The push-return switch has been adopted for the hazard light switch.
2. Even if the light bulb has burned out, the flashing speed of the hazard light is not changed.



DAYTIME RUNNING LIGHT

DAYTIME RUNNING LIGHT FUNCTION



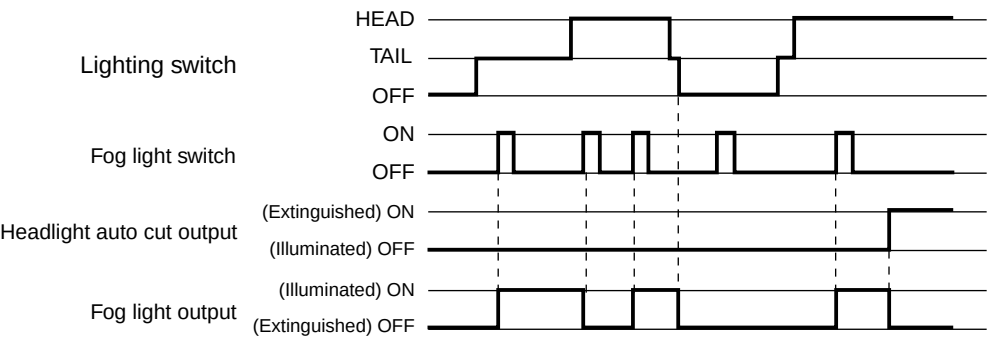
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ETACS-ECU releases the parking brake (the parking brake switch turns OFF) with the ignition switch ON, and illuminates the daytime running lights <vehicles with discharge headlight> or illuminates the low-beam headlights <vehicles without discharge headlight> with the lighting switch OFF or in the taillight position. Also, ETACS-ECU extinguishes the daytime running light with the lighting switch in the headlight position <vehicles with discharge headlight>, or illuminates the

low-beam headlights of 100% illuminance <vehicles without discharge headlight>. When the ignition switch is turned to the "LOCK" (OFF) position while the daytime running light <vehicles with discharge headlight> is illuminated or the low-beam headlights <vehicles without discharge headlight> are illuminated with the brightness reduced, the ETACS-ECU extinguishes the daytime running light <vehicles with discharge headlight> or the low-beam headlights.

FOG LIGHT <VEHICLES WITHOUT DISCHARGE HEADLIGHT>

FOG LIGHT FUNCTION



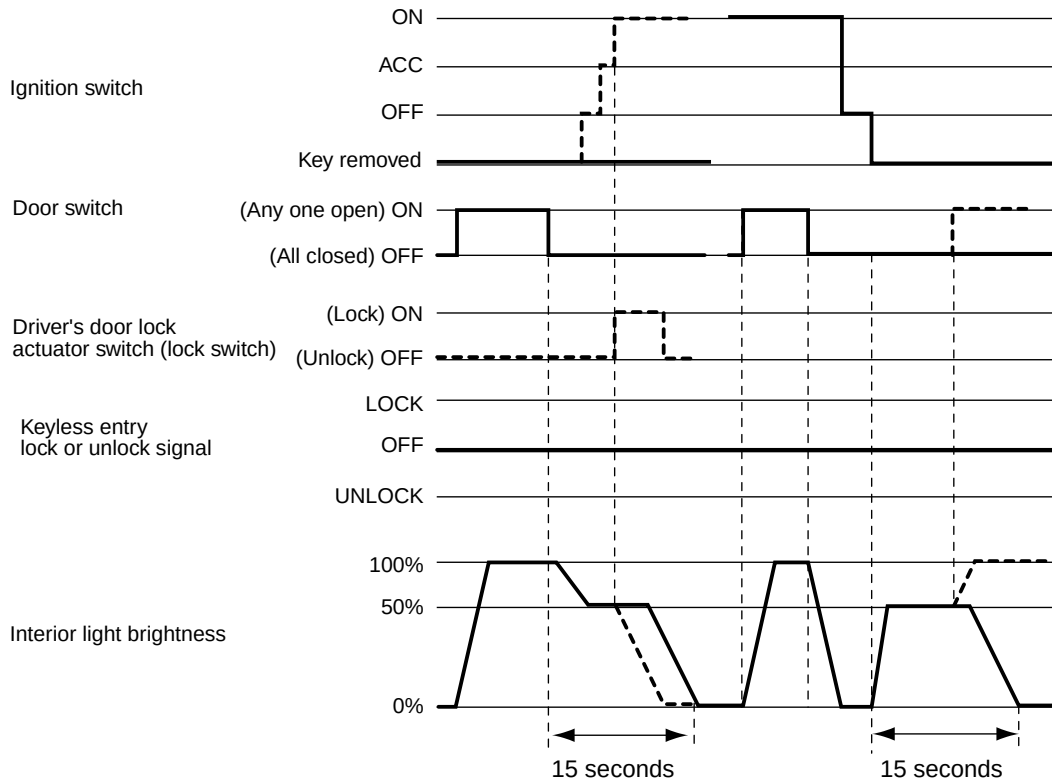
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When the fog light switch is turned to ON with the tail lights or the headlights lit (the tail light switch or the headlight switch is ON), the ETACS-ECU illuminates the fog lights.

If the tail light or the headlight is turned off with the lighting switch OFF while the fog lights lit, the fog lights turn off at the same time to prevent unattended operation.

## INTERIOR LIGHT

### INTERIOR LIGHT DIMMER CONTROL FUNCTION (THE INITIAL CONDITION: 15 SECONDS)



ZC603246 0000

When the interior light switch is set to the DOOR position, ETACS-ECU controls the interior light as follows.

1. When the ignition switch is OFF:  
By opening any door or liftgate, the light turns ON (100%), and dims (50%) when the door or liftgate is closed, then and turns off after 15 seconds. However, when the ignition switch is turned ON or the door lock is operated, the lights turn off at that time.
2. When the ignition switch is ON:  
By opening any door or liftgate, the light (100%) turns ON and OFF when the door or liftgate is closed.

3. When all doors and the liftgate are closed, and the ignition key is removed\*:

By removing the ignition key with all doors and the liftgate closed, the light turns ON 50%, and turns off after 15 seconds.

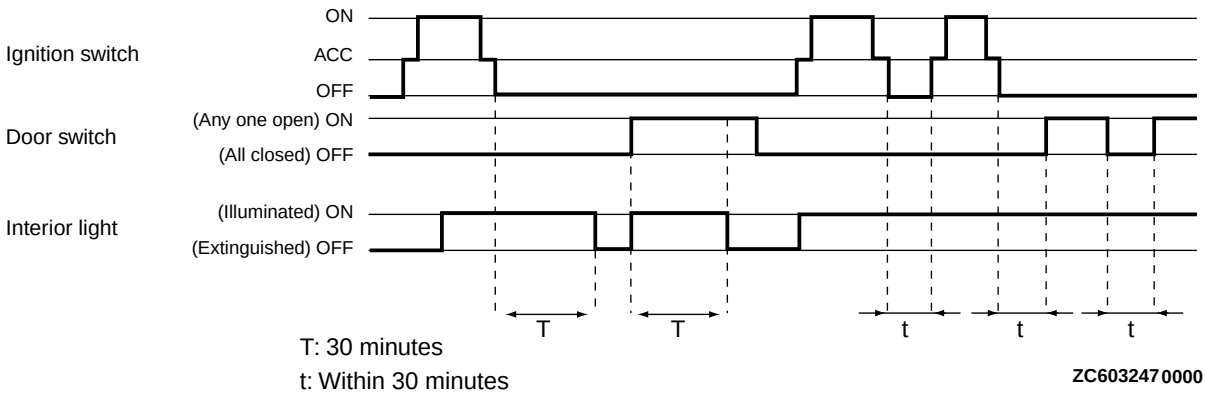
By inserting the ignition key again or operating the door lock with the light lit, the lights turn off.

#### NOTE:

\*: For the vehicles with KOS, it is operated the same way when the steering lock is locked or when the emergency key is removed from the key cylinder.

\*For the vehicles with the keyless entry system, the delayed light-off time and the operation times of the keyless entry interior light answer back can be changed by the customize function (Refer to P.54A-17).

INTERIOR LIGHT AUTOMATIC-SHUTOFF FUNCTION (THE INITIAL CONDITION: 30 MINUTES)



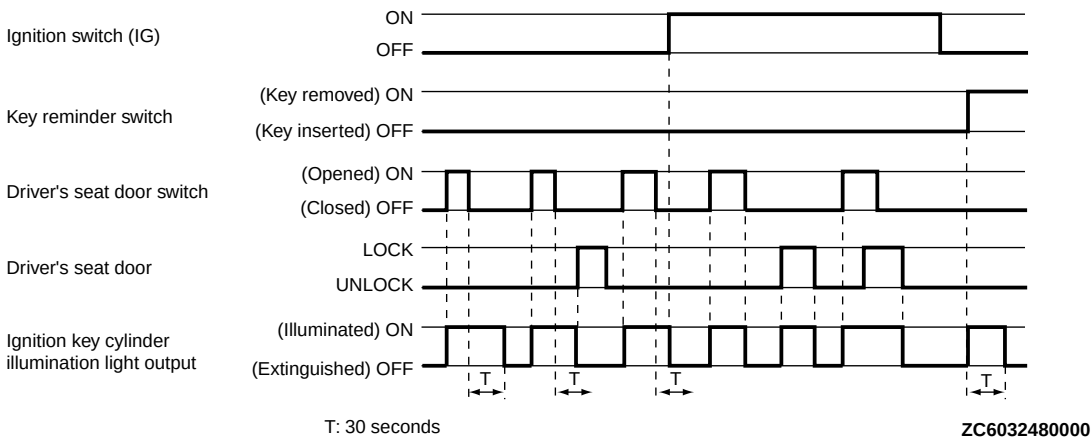
When an interior light such as the room light [all interior lights connecting to the room light fuse (the front room light, the rear room light, the luggage compartment light, and the ignition key cylinder illumination lights)] is lit, but either one of the conditions is met, the interior light is turned off automatically for preventing the battery discharge caused by the unattended operation or the door-ajar.

- After 30 minutes with the interior light lit while the ignition switch is OFF, the light turns off automatically.

- After 30 minutes with any door opened while the ignition switch is OFF, the light turns off automatically.
- After the auto-turn OFF, the interior light returns to the illumination state when the doors are opened/closed, keyless entry transmitter switch is operated, or ignition switch is turned to ACC position. After returning, the light turns OFF after 30 minutes, when the interior light auto turn off condition is met.

*NOTE: The interior light automatic shut-off time can be adjusted by the customize function (Refer to P. 54A-17).*

IGNITION KEY CYLINDER ILLUMINATION LIGHT AND FOOT LIGHT CONTROL FUNCTION



The ETACS-ECU controls the ignition key cylinder illumination light as described below.

- With the ignition switch OFF, the light is illuminated when the driver's door is opened, and it is turned off 30 seconds after the driver's door is closed.

However, the light is turned off if the ignition switch is turned ON or doors are locked within 30 seconds.

•When the ignition key is removed from the ignition key cylinder, the light illuminates for 30 seconds.\*  
*operated the same way when the steering lock is locked or when the emergency key is removed from the key cylinder.*

NOTE: \*: For the vehicles with KOS, it is

## CONFIGURATION FUNCTION

M25400000119USA0000010004

With the scan tool MB991958 operation, the following information is held even when the battery is disconnected. functions can be programmed. The programmed disconnected.

| Adjustment item (scan tool MB991958 display) | Adjustment item                                                              | Adjusting contents (scan tool MB991958 display) | Adjusting contents                                  |
|----------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|
| Turn power source                            | Adjustment of turn-signal light operation condition                          | ACC or IG1                                      | Operable with ACC or ON position                    |
|                                              |                                                                              | IG1                                             | Operable with ON position (default)                 |
| Comfort flasher                              | With/without comfort flasher function                                        | Disable                                         | Without function                                    |
|                                              |                                                                              | Enable                                          | With function (default)                             |
| Comfort flasher switch time                  | Switch operation time to activate the comfort flasher function               | Normal                                          | 0.4 seconds (default)                               |
|                                              |                                                                              | Long                                            | 0.8 seconds                                         |
| Hazard answer back                           | Adjustment of the number of keyless hazard warning light answer back flashes | Lock:1, Unlock:2                                | LOCK: Flashes once, UNLOCK: Flashes twice (default) |
|                                              |                                                                              | Lock:1, Unlock:0                                | LOCK: Flashes once, UNLOCK: No flash                |
|                                              |                                                                              | Lock:0, Unlock:2                                | LOCK: No flash, UNLOCK: Flash twice                 |
|                                              |                                                                              | Lock:2, Unlock:1                                | LOCK: Flash twice, UNLOCK: Flash once               |
|                                              |                                                                              | Lock:2, Unlock:0                                | LOCK: Flash twice, UNLOCK: No flash                 |
|                                              |                                                                              | Lock:0, Unlock:1                                | LOCK: No flash, UNLOCK: Flash once                  |
| Dome light delay timer with door             | Adjustment of interior light delay shutdown time                             | 0sec                                            | 0 second (no delay shutdown time)                   |
|                                              |                                                                              | 7.5sec                                          | 7.5 seconds                                         |
|                                              |                                                                              | 15sec                                           | 15 seconds                                          |
|                                              |                                                                              | 30sec                                           | 30 seconds (default)                                |
|                                              |                                                                              | 60sec                                           | 60 seconds                                          |
|                                              |                                                                              | 120sec                                          | 120 seconds                                         |
|                                              |                                                                              | 180sec                                          | 180 seconds                                         |
| Head light auto cut customize                | Adjustment of headlight automatic shutdown function                          | Disable                                         | Without function                                    |
|                                              |                                                                              | C-spec.                                         | With function (default)                             |
| Interior light auto cut timer                | Adjustment of interior light automatic shutdown function operation time      | Disable                                         | Without function                                    |
|                                              |                                                                              | 3min                                            | 3 minutes                                           |
|                                              |                                                                              | 30min                                           | 30 minutes (default)                                |
|                                              |                                                                              | 60min                                           | 60 minutes                                          |

## COMBINATION METER

## GENERAL INFORMATION

M25400000001USA0000010002

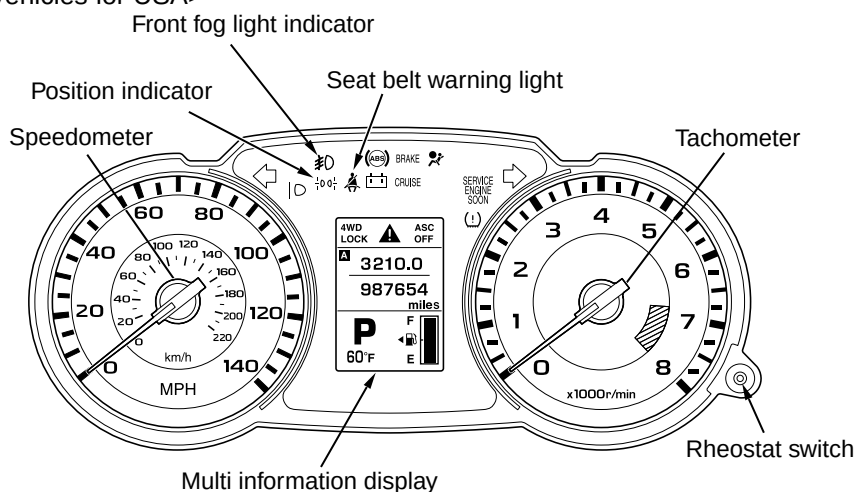
Metallic silver and black are used as the base color of the combination meter. The meter has the independently arranged speedometer to the left, indicator to the upper center, multi information display (large full dot matrix LCD display) to the lower center, tachometer to the right, so that its sporty design allows a driver to easily distinguish the information from the meters. The combination meter offers the following features:

- The multi information display that displays two colors (red and yellow) has been adopted.
- The multi information display can be switched to display the trip meter.
- The service reminder function has been adopted which notifies the users of the next periodic

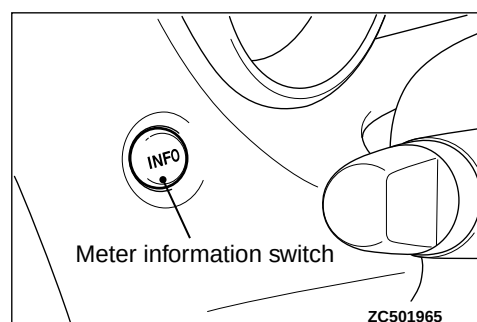
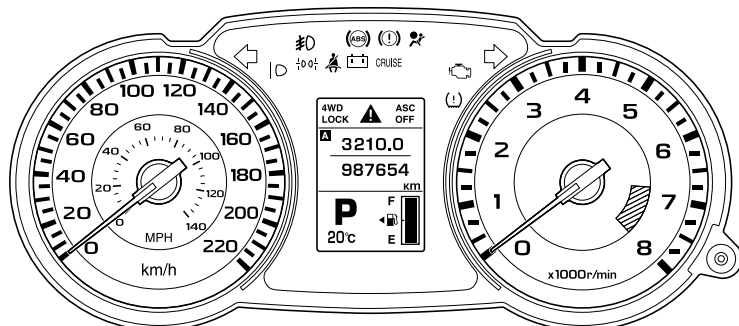
inspection timing using the driving distance and elapsed time.

- By operating the rheostat switch, the brightness of the meter and illumination can be adjusted in eight steps.
- The layout has been simplified by displaying what is required to meet the legislative requirements with the indicator, and by displaying other things with multi information display.
- Even with the ignition switch in the OFF position, the odometer, trip meter, or service reminder information can be displayed by pressing the meter information switch.
- A tone alarm is integrated in the combination meter so that the alarm contents or the operation status of switches can be checked with the tone alarm sound.

## &lt;Vehicles for USA&gt;



## &lt;Vehicles for CANADA&gt;



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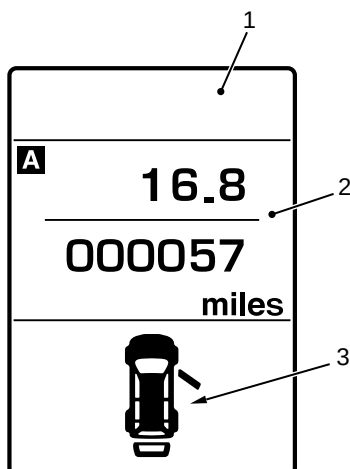
## MULTI INFORMATION DISPLAY

M25400000121USA0000010000

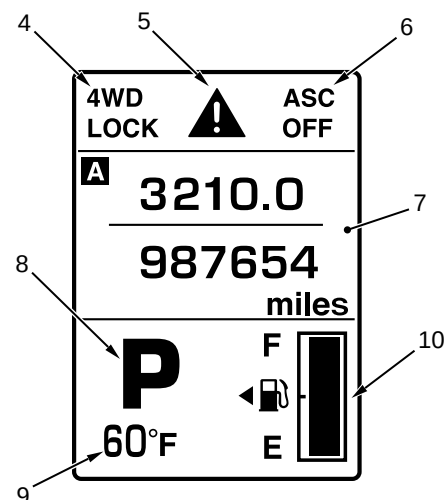
The multi information display can display the following items: various warnings, odometer and trip meter, service reminder information, engine coolant temperature, remaining fuel amount, ambient temperature, selector lever position, AWD operation status, average and instantaneous fuel consumption,

possible cruising distance, average vehicle speed, and others. Displayed contents can be switched by operating the meter information switch. Also, the displayed language or unit on the multi information display can be changed from the function setting screen.

When the ignition switch is LOCK (OFF) position



When the ignition switch is ON position



ZC5018580000

## When the ignition switch is LOCK (OFF) position

| Item                                          | Content                                                                                                                                                                                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Caution mark display screen                 | When warnings are displayed on the interrupt display screen, pressing the meter information switch turns off the warning display and displays the caution mark. Caution mark is displayed also when two or more alarms occur simultaneously. |
| 2 Information screen/interrupt display screen | The odometer and trip meter or service reminder information will be displayed. Also, appropriate contents are displayed when a warning is issued.                                                                                            |
| 3 Door-ajar warning display screen            | Displays the door or liftgate that is open.                                                                                                                                                                                                  |

## When the ignition switch is ON position

| Item                                          | Content                                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 Drive mode indicator display screen         | Displays the AWD operation status.                                                                                                                                                                                                     |
| 5 Caution mark display screen                 | When warnings are displayed on the information screen, pressing the meter information switch turns off the warning display and displays the caution mark. Caution mark is displayed also when two or more alarms occur simultaneously. |
| 6 ASC OFF display screen                      | Displayed when the ASC system is turned OFF using the ASC OFF switch.                                                                                                                                                                  |
| 7 Information screen/interrupt display screen | A screen changes in following order by operating meter information switch.<br>1. Odometer/Trip odometer A                                                                                                                              |

| Item |                                        | Content                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                        | 2. Odometer/Trip odometer B<br>3. Service reminder (when service reminder function is effective)<br>4. Engine coolant temperature display<br>5. Driving range display<br>6. Average speed display, average fuel consumption display, momentary fuel consumption display<br>7. Function setting screen<br>8. Redisplay of a warning display screen<br>Also, appropriate contents are displayed when a warning is issued. |
| 8    | Selector lever position display screen | Displays the selector lever position.                                                                                                                                                                                                                                                                                                                                                                                   |
| 9    | Outside temperature display screen     | Displays the ambient temperature.                                                                                                                                                                                                                                                                                                                                                                                       |
| 10   | Fuel remaining display screen          | Displays the remaining fuel amount.                                                                                                                                                                                                                                                                                                                                                                                     |

### Service reminder function

Displays the periodic inspection timing based on the predetermined schedule. With the inspection timing coming up (warning start point of the warning criteria is achieved), when the ignition switch is turned to ON position, the service reminder function displays "PERIODIC INSPECTION" for 4 seconds to inform the inspection timing. When the "PERIODIC INSPECTION" achieves the warning end point of warning criteria, it will be turned off by the scan tool MB991958 special function or the meter information switch special operation\*.

**NOTE:** The service reminder function is disabled at shipment. If any of the following conditions is

*met, the function becomes available. When delivering the vehicle to the customer, enable the service reminder function, and check that the schedule is "NAS 10".*

*\*The ignition switch is turned to "ON" while pressing the meter information switch.*

*\*The driving distance of the odometer reaches 100 km or 60 miles.*

**NOTE:** Using the scan tool MB991958 special functions or the meter information switch special operation\*, the schedule can be changed and the service reminder function can be made unavailable.

**NOTE:** \*: For details about the meter information switch special operation, refer to the Service Manual.

**Schedule table**

| Schedule                 | Warning types            | Warning criteria                      |
|--------------------------|--------------------------|---------------------------------------|
| NAS 10 (initial setting) | Elapsed time (month)     | Every 6 elapsed months                |
|                          | Driving distance (miles) | Every 7,500 miles of driving distance |
|                          | Driving distance (km)    | Every 12,000 km of driving distance   |
| NAS 11                   | Elapsed time (month)     | Every 3 elapsed months                |
|                          | Driving distance (miles) | Every 3,750 miles of driving distance |
|                          | Driving distance (km)    | Every 6,000 km of driving distance    |
| NAS 20                   | Elapsed time (month)     | Every 5 elapsed months                |
|                          | Driving distance (miles) | Every 5,000 miles of driving distance |
|                          | Driving distance (km)    | Every 8,000 km of driving distance    |
| NAS 21                   | Elapsed time (month)     | Every 4 elapsed months                |
|                          | Driving distance (miles) | Every 3,750 miles of driving distance |

| Schedule | Warning types         | Warning criteria                   |
|----------|-----------------------|------------------------------------|
|          | Driving distance (km) | Every 6,000 km of driving distance |

NOTE: For schedule, "JPN", "EU", "GCC/EXP" and "MMAL" can also be selected.

#### Warning criteria (warning start and end points)

| Elapsed time        |                   | Driving distance (km) |                   | Driving distance (miles) |                   |
|---------------------|-------------------|-----------------------|-------------------|--------------------------|-------------------|
| Warning start point | Warning end point | Warning start point   | Warning end point | Warning start point      | Warning end point |
| -15 days            | +15 days          | -500 km               | +500 km           | -300 miles               | +300 miles        |

## TONE ALARM

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Using its own signal or signal sent via CAN communication, the combination meter sounds the integrated tone alarm.

| Item                                                                   | Relating ECU                                                    |
|------------------------------------------------------------------------|-----------------------------------------------------------------|
| Seat belt reminder function                                            | Combination meter                                               |
| Paddle shift cancel tone alarm                                         | Transaxle control module                                        |
| Theft-alarm function                                                   | ETACS-ECU                                                       |
| Keyless operation key reminder tone alarm function (vehicles with KOS) | WCM                                                             |
| Ignition key reminder tone alarm function (vehicles without KOS)       | ETACS-ECU                                                       |
| Light reminder tone alarm function                                     | ETACS-ECU                                                       |
| Door-ajar warning tone alarm function                                  | ETACS-ECU                                                       |
| Freeze warning tone alarm                                              | A/C-ECU                                                         |
| Parking brake reminder tone alarm function                             | Combination meter                                               |
| Multi information display interrupt display tone alarm                 | Combination meter                                               |
| ETACS-ECU function customization tone alarm                            | ETACS-ECU                                                       |
| A/C operation tone alarm                                               | A/C-ECU                                                         |
| Audio operation tone alarm                                             | Radio and CD player, CD changer or audio visual navigation unit |
| Meter information switch operation tone alarm                          | Combination meter                                               |
| Turn-signal light tone alarm function                                  | ETACS-ECU                                                       |

## SEAT BELT REMINDER FUNCTION

### When the driver's seat belt is released

1. When the ignition switch is turned ON, the driver's seat belt indicator illuminates and the alarm sounds for 6 seconds.
2. 60 seconds after the ignition switch is turned ON, if the vehicle speed exceeds 8 km/h, the driver's seat belt indicator illuminates and blinks for 90 seconds. The alarm sounds simultaneously with the blinks of the indicator.

3. On Step 2 completion, if the seat belt is not fastened when the vehicle speed changes from 3 km/h to 8 km/h, the indicator illuminates and blinks again and the alarm sounds again.

**When the front passenger's seat belt is released**

1. When the ignition switch is turned ON, the front passenger's seat belt indicator illuminates for 6 seconds, regardless of whether the front passenger's seat belt is fastened or released. The alarm does not sound.
2. 60 seconds after the ignition switch is turned ON, the front passenger's seat belt reminder operates the same manner as for the driver's seat belt that is released, but the alarm does not sound.

**PADDLE SHIFT CANCEL TONE ALARM**

When the paddle shift switch is operated, the tone alarm sounds.

**THEFT-ALARM FUNCTION**

When the theft-alarm function is activated, the tone alarm sounds.

**KEYLESS OPERATION KEY REMINDER TONE ALARM FUNCTION (VEHICLES WITH KOS)/IGNITION KEY REMINDER TONE ALARM FUNCTION (VEHICLES WITHOUT KOS)**

With the ignition switch in the LOCK (OFF) position, when the driver's door is opened with the ignition key inserted into the ignition key cylinder or the keyless operation key left in the vehicle, the tone alarm sounds.

**LIGHT REMINDER TONE ALARM FUNCTION**

With the ignition switch in the LOCK (OFF) position, when the driver's door is opened with the tail light switch remaining ON, the tone alarm sounds.

**DOOR-AJAR WARNING TONE ALARM FUNCTION**

With the ignition switch in the ON position, when any of the doors (including the liftgate) is open and the vehicle speed information sent via the CAN communication is 8 km/h or more, the tone alarm sounds.

**FREEZE WARNING TONE ALARM**

When the ignition switch is in the ON position, if the ambient temperature is at 0°C or below, the tone alarm sounds.

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#### **PARKING BRAKE REMINDER TONE ALARM FUNCTION**

With the ignition switch in the ON position, if the parking brake has not been reset (parking brake switch: ON), and when the vehicle speed information transmitted via CAN communication is 8 km/h or more, the tone alarm sounds.

#### **MULTI INFORMATION DISPLAY INTERRUPT DISPLAY TONE ALARM**

When the interrupt display is displayed on the multi information display because of alarms, the tone alarm sounds.

#### **ETACS-ECU FUNCTION CUSTOMIZATION TONE ALARM**

When entering into the customize mode of ETACS-ECU functions or when the customization is executed, the tone alarm sounds in each case.

#### **A/C OPERATION TONE ALARM, AUDIO OPERATION TONE ALARM**

According to the tone alarm sounding request signal which is received when the A/C, radio and CD player, CD changer or audio visual navigation unit is operated, the tone alarm sounds.

#### **METER INFORMATION SWITCH OPERATION TONE ALARM**

When the meter information switch or rheostat switch is operated, the tone alarm sounds.

#### **TURN-SIGNAL LIGHT TONE ALARM FUNCTION**

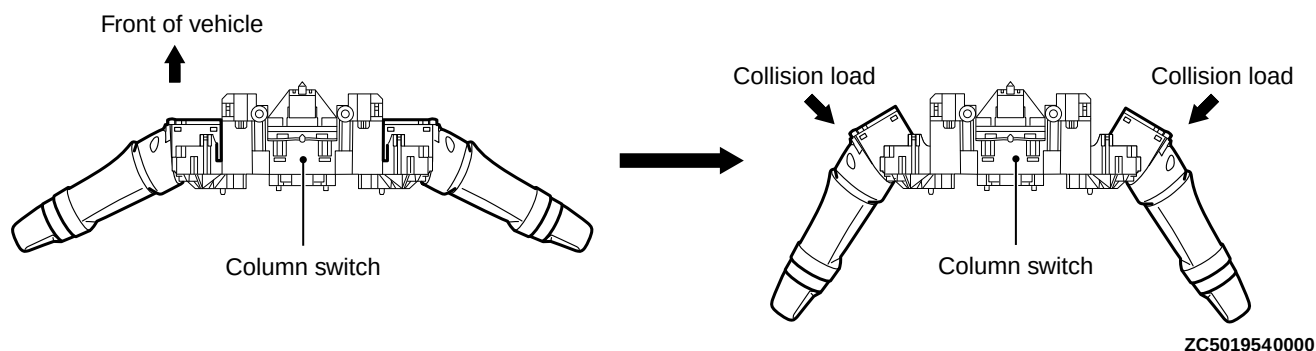
The tone alarm sounds in synchronization with the turn signal light operation.

### **COLUMN SWITCH**

## **GENERAL INFORMATION**

Column switch ensures the driver's safety during frontal collision of vehicle.

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**Function**

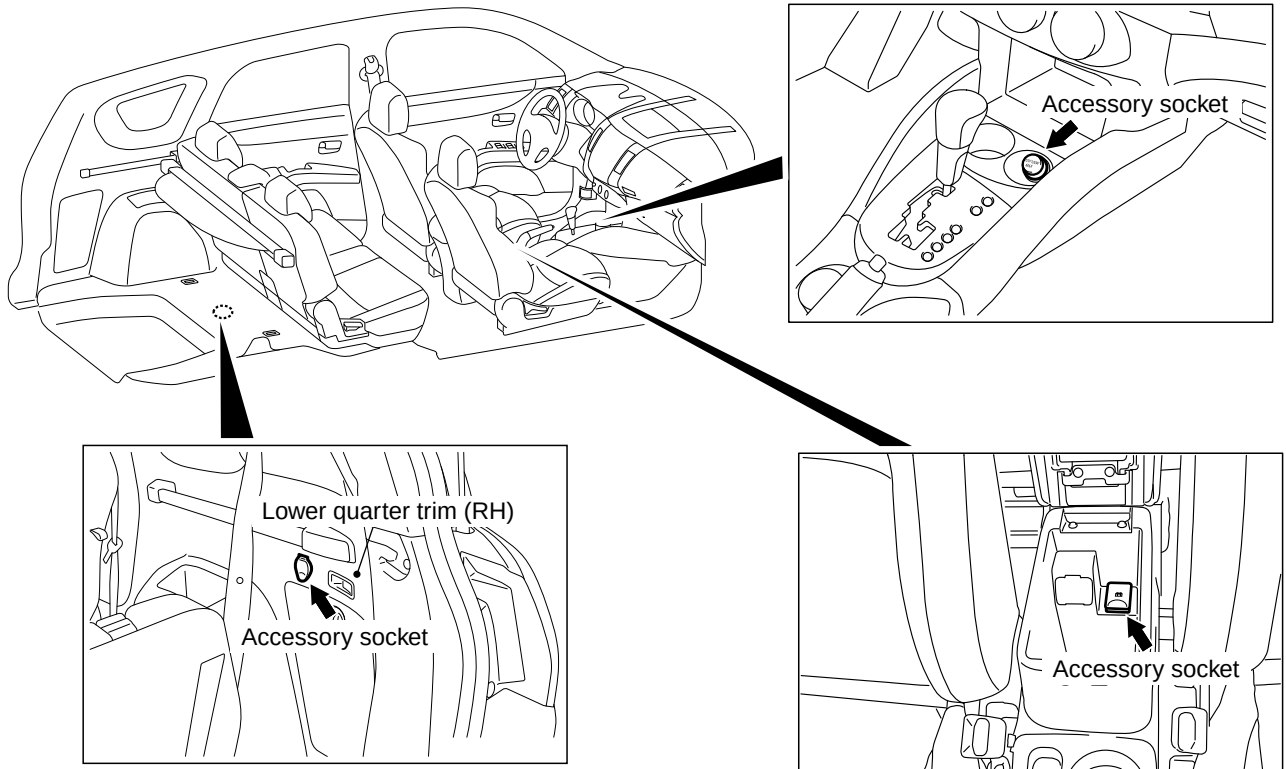
If the column switch is moved to the front of the vehicle and hit on the instrument panel or meter bezel by the frontal collision of vehicle, the steering wheel is moved to the front of the vehicle because the right and left

levers fall down, ensuring the driver's safety. In addition, the column switch secures the rigidity that the levers do not fall down by the normal operation, however, it cannot be reused after the deformation.

**ACCESSORY****ACCESSORY SOCKET****GENERAL INFORMATION**

The plug-in type accessory socket has been installed for the convenient use of accessories.

M25400000001USA0000010003



ZC6004910000

- Accessory socket has been added to the front floor console.
- Accessory sockets have been added to the rear floor console and lower quarter trim (RH). <High

price class: Standard equipment, Medium price class: Option>

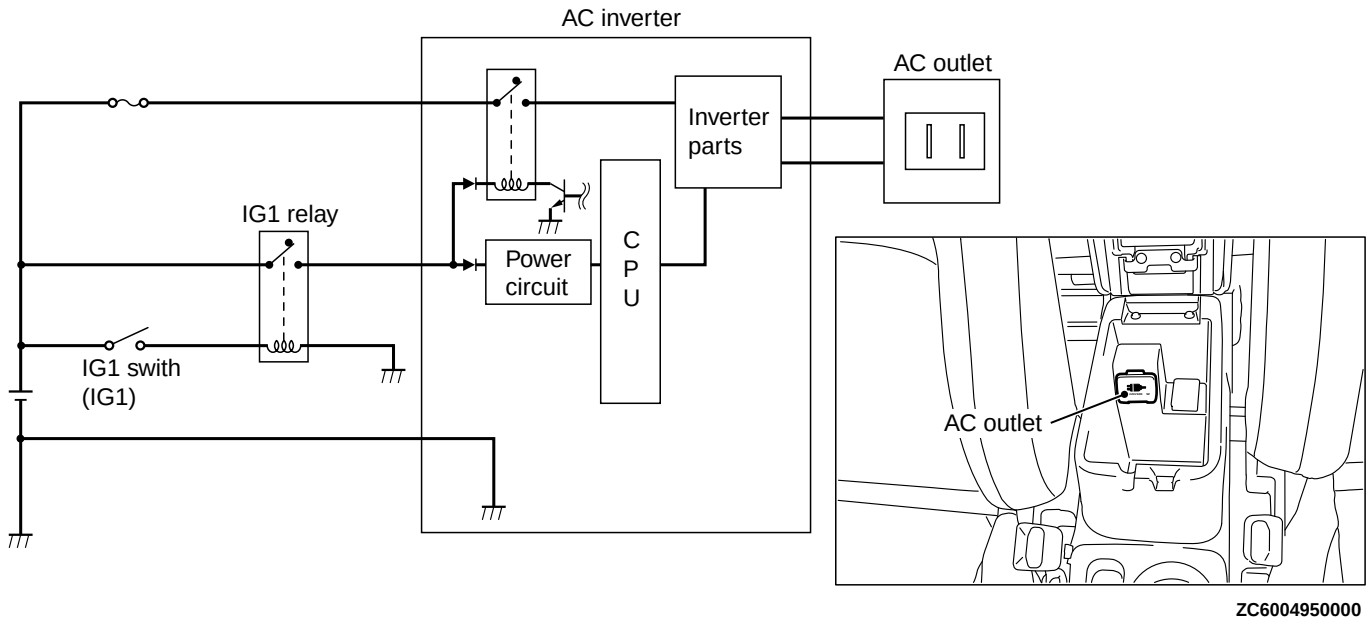
- The maximum load is 120 W when a single accessory socket is used. When three accessory sockets are used simultaneously, the combined maximum load for three sockets is 120 W.

## AC POWER SUPPLY

### GENERAL INFORMATION

The AC power supply which can be used as power supply for home electric appliances has been installed to the rear floor console. <Option>

M25400000001USA0000010004



•With the AC inverter, the DC power supply of the vehicle battery can be inverted into the AC power supply and provided from the AC outlet.

•The electric appliance whose power consumption is 100 W or less when 115 V AC is supplied can be used.

**NOTE:** The home appliance whose power consumption is 100 W or less but requires a large amount of power at startup (such as TV, refrigerator, vacuum cleaner) may not be used.

•To prevent damage caused by overcurrent, overvoltage, low voltage, and overheat\* when the power is supplied, there is a protection function to

stop the power supply and prevention function against dead battery.

**NOTE:** \*: When the inside of the vehicle is held at high temperatures (35° C or more) for a long time (for example under the scorching sun), if the AC power supply is used with the vehicle parked, the operation may automatically stop to prevent the inverter unit from being overheated. After the power supply is cut off, when the AC inverter temperature decreases, the power automatically returns to ON.

•When the power supply stops, turn the ignition switch to "LOCK" (OFF) position once to inhibit the power supply to the AC inverter. After that, turn the ignition switch to "ON" again for return.

## HANDS FREE CELLULAR PHONE SYSTEM

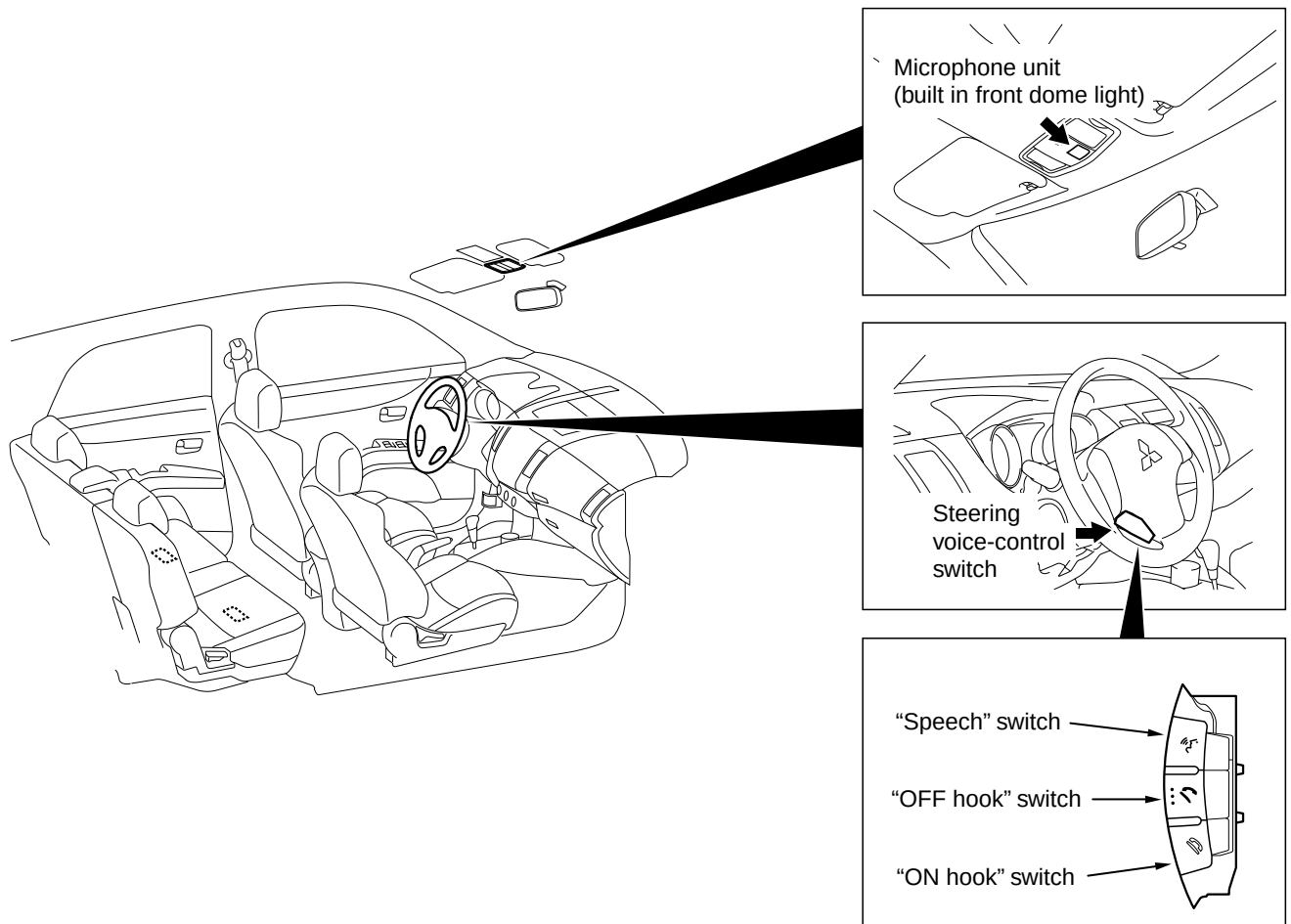
### GENERAL INFORMATION

With the hands-free cellular phone system, by registering a cellular phone for Bluetooth™\* with voice recognition to the hands free module, the telephone function becomes available without operating the cellular phone directly. The hands-free cellular phone

system can be used without connecting the cellular phone to the vehicle via wiring cable.

**NOTE:** \*: Bluetooth™ is the short-distance digital wireless communication technology using 2.45 GHz frequency band. The communication effective area is within 10 m, and the feature is that the communication can be achieved even when an obstacle is present between the communicating devices.

## Construction diagram



ZC6026180000

When the registered cellular phone is inside the vehicle, the hands-free cellular phone system operates as follows.

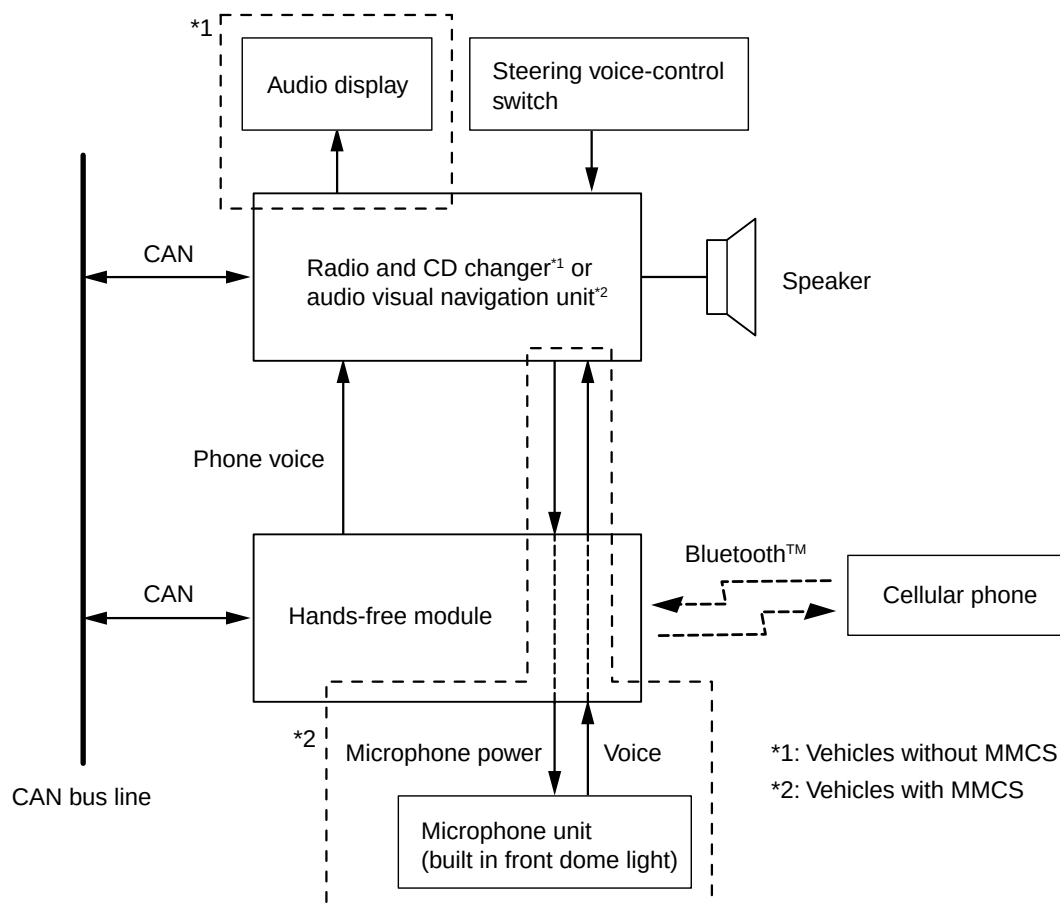
**NOTE:** The owner's manual contains details on pairing a cellular phone with the Bluetooth system, speaker enrollment, and other functions.

- When the cellular phone receives a call, the occupant can start conversation by pressing "OFF hook" in the steering voice-control switches on the steering wheel. When the conversation ends, the occupant can finish the call by pressing "ON hook" in the steering voice-control switches.
- To make a call, press "Speech" in the steering voice-control switches on the steering wheel, call up the registered receiver's information in the voice input mode, press "OFF hook." Then, the transmission starts to call the receiver. In addition, with the vehicle stopped, the occupant can call the

receiver by operating the cellular phone unit and then have a conversation using the hands-free cellular phone system. Also, when the conversation ends, the occupant can finish the call by pressing "ON hook" in the steering voice-control switches.

- The voice of occupant is picked up by the microphone unit incorporated in the front dome light, and then transmitted to the cellular phone via hands-free module. Also, the receiver's voice is transmitted from the cellular phone to the radio and CD changer <vehicles without MMCS> or audio visual navigation unit <vehicles with MMCS> via hands-free module, and then output from the vehicle-mounted speaker.
- The reception state of the cellular phone is indicated on the display section of the radio and CD changer <vehicles without MMCS> or audio visual navigation unit <vehicles with MMCS>.

## System block diagram



ZC6026000000

## ETACS

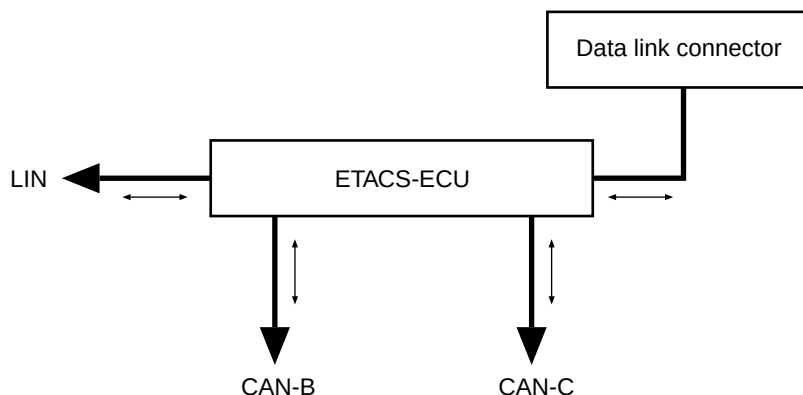
## GENERAL INFORMATION

ETACS\* -ECU has three main functions.

**NOTE:** \*: ETACS (Electronic Time and Alarm Control System)

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## GATEWAY FUNCTION



ZC6004720000

As a central ECU for the on-vehicle communication network system established in the vehicle, the gateway function is integrated into ETACS-ECU. The gateway function offers the following functions:

▪Data transfer among four networks\*<sup>1</sup>

Transfers the data flowing in a network to another network in real time.

**NOTE:** \*<sup>1</sup>: CAN\*<sup>2</sup>-C (power train network), CAN\*<sup>2</sup>-B (middle-speed body network), LIN\*<sup>3</sup> (low-speed body network), diagnostics CAN-C (diagnosis exclusive network)

**NOTE:** \*<sup>2</sup>: For details of CAN, refer to GROUP 54D, Controller Area Network (CAN) P. 54D-2.

**NOTE:** \*<sup>3</sup>: For details of LIN, refer to GROUP 54C, Local Interconnect Network (LIN) P. 54C-2.

▪Diagnosis of each network communication line  
Detects and stores an open circuit and short circuit of communication line.

▪Communication error diagnosis of network ECUs  
Detects and stores the ECU that is not properly transmitting data.

## CODING FUNCTION

By writing the coding data such as vehicle model, destination, and equipment level to ECUs, the functions of ECUs can be changed. There are two types of coding method, the local coding and global coding.

## BODY ELECTRICAL EQUIPMENT CONTROL FUNCTION

This function controls the following electrical equipment.

- Exterior lights
- Wiper, washer
- Central door locking system
- Interior light
- Keyless entry, keyless operation system
- Theft alarm system

## CONFIGURATION FUNCTION

Using the M.U.T.-III scan tool, the following functions can be programmed. The programmed information is held even when the battery is disconnected.

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| Adjustment item (M.U.T.-III scan tool display) | Adjustment item                                                              | Adjusting contents (M.U.T.-III scan tool display) | Adjusting contents                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| ACC power auto cut                             | Time to ACC power cut-off when the ignition switch is in the ACC position    | Disable                                           | No function (default)                                                                                                     |
|                                                |                                                                              | 30 min                                            | 30 minutes                                                                                                                |
|                                                |                                                                              | 60 min                                            | 60 minutes                                                                                                                |
| Turn power source                              | Adjustment of turn-signal light operation condition                          | ACC or IG1                                        | Operable with ACC or ON position                                                                                          |
|                                                |                                                                              | IG1                                               | Operable with ON position (default)                                                                                       |
| Comfort flasher                                | With/without comfort flasher function                                        | Disable                                           | No function                                                                                                               |
|                                                |                                                                              | Enable                                            | With function (default)                                                                                                   |
| Comfort flasher switch time                    | Switch operation time to activate the comfort flasher function               | Normal                                            | 0.4 seconds (default)                                                                                                     |
|                                                |                                                                              | Long                                              | 0.8 seconds                                                                                                               |
| Hazard answer back                             | Adjustment of the number of keyless hazard warning light answer back flashes | Lock:1, Unlock:2                                  | LOCK: Flashes once, UNLOCK: Flashes twice (default)                                                                       |
|                                                |                                                                              | Lock:1, Unlock:0                                  | LOCK: Flashes once, UNLOCK: No flash                                                                                      |
|                                                |                                                                              | Lock:0, Unlock:2                                  | LOCK: No flash, UNLOCK: Flash twice                                                                                       |
|                                                |                                                                              | Lock:2, Unlock:1                                  | LOCK: Flash twice, UNLOCK: Flash once                                                                                     |
|                                                |                                                                              | Lock:2, Unlock:0                                  | LOCK: Flash twice, UNLOCK: No flash                                                                                       |
|                                                |                                                                              | Lock:0, Unlock:1                                  | LOCK: No flash, UNLOCK: Flash once                                                                                        |
|                                                |                                                                              | Lock:0, Unlock:0                                  | No function                                                                                                               |
| Front wiper operation                          | Adjustment of the intermittent windshield wiper operation                    | Normal INT                                        | Intermittent wiper interval is fixed to 4 seconds.                                                                        |
|                                                |                                                                              | Variable INT                                      | Intermittent wiper interval is calculated only by the wiper volume control.                                               |
|                                                |                                                                              | Vehicle speed dependent                           | Intermittent wiper interval is calculated according to the intermittent wiper volume control and vehicle speed (default). |
| Front wiper washer                             | Disabling or enabling washer-linked wiper function                           | Washer only                                       | No function                                                                                                               |
|                                                |                                                                              | Washer-linked wiper                               | With function (default)                                                                                                   |
| Rear wiper intermittent duration               | Adjustment of rear wiper interval                                            | 0 seconds                                         | No wiper interval                                                                                                         |
|                                                |                                                                              | 4 seconds                                         | 4 seconds                                                                                                                 |
|                                                |                                                                              | 8 seconds                                         | 8 seconds (default)                                                                                                       |
|                                                |                                                                              | 16 seconds                                        | 16 seconds                                                                                                                |
| Rear wiper low speed mode                      | Disabling or enabling rear wiper continuous operation                        | Disabled                                          | No function (default)                                                                                                     |
|                                                |                                                                              | Enabled                                           | With function                                                                                                             |

| Adjustment item (M.U.T.-III scan tool display) | Adjustment item                                                         | Adjusting contents (M.U.T.-III scan tool display) | Adjusting contents                                                                            |
|------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Dome light delay timer with door               | Adjustment of interior light delay shutdown time                        | 0sec                                              | 0 second (no delay shutdown time)                                                             |
|                                                |                                                                         | 7.5sec                                            | 7.5 seconds                                                                                   |
|                                                |                                                                         | 15sec                                             | 15 seconds                                                                                    |
|                                                |                                                                         | 30sec                                             | 30 seconds (default)                                                                          |
|                                                |                                                                         | 60sec                                             | 60 seconds                                                                                    |
|                                                |                                                                         | 120sec                                            | 120 seconds                                                                                   |
|                                                |                                                                         | 180sec                                            | 180 seconds                                                                                   |
| Head light auto cut customize                  | Adjustment of headlight automatic shutdown function                     | Disable                                           | No function                                                                                   |
|                                                |                                                                         | C-spec.                                           | With function (default)                                                                       |
| Interior light auto cut timer                  | Adjustment of interior light automatic shutdown function operation time | Disable                                           | No function                                                                                   |
|                                                |                                                                         | 3min                                              | 3 minutes                                                                                     |
|                                                |                                                                         | 30min                                             | 30 minutes (default)                                                                          |
|                                                |                                                                         | 60min                                             | 60 minutes                                                                                    |
| Door unlock mode                               | Door lock system                                                        | All doors unlock                                  | All the doors are unlocked when the driver's side door is unlocked.                           |
|                                                |                                                                         | Dr door unlock                                    | Only the driver's side door is unlocked when the driver's side door is unlocked. (default)    |
| Auto door unlock by P position                 | Auto door unlock by P position function                                 | Disable                                           | No function (default)                                                                         |
|                                                |                                                                         | Always enabled                                    | Always with function                                                                          |
|                                                |                                                                         | P/W unlocked                                      | With function (with power window unlocked)                                                    |
| Duration of horn chirp                         | Horn sounding time during horn answer back                              | Short                                             | 0.01 second (default)                                                                         |
|                                                |                                                                         | Long                                              | 0.02 second                                                                                   |
| Horn chirp by RKE                              | Horn chirp by RKE                                                       | Not sound horn                                    | No horn answerback function                                                                   |
|                                                |                                                                         | Lock any time                                     | The horn sounds when the lock button of keyless entry transmitter is pressed once.            |
|                                                |                                                                         | W lock any time                                   | The horn sounds when the lock button of keyless entry transmitter is pressed twice. (default) |
| Tone alarm answer back                         | Adjusts the tone alarm answer back function.                            | Not sound tone alarm                              | No function                                                                                   |
|                                                |                                                                         | At keyless key                                    | Sounds when the keyless entry system is activated.                                            |
|                                                |                                                                         | At keyless                                        | Sounds when KOS is activated (default).                                                       |
|                                                |                                                                         | At Both                                           | Sounds when the keyless entry system or KOS is activated.                                     |

| Adjustment item (M.U.T.-III scan tool display) | Adjustment item                                                         | Adjusting contents (M.U.T.-III scan tool display) | Adjusting contents                        |
|------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------|
| Timer lock timer                               | Timer lock period adjustment                                            | 30sec                                             | 30 seconds (default)                      |
|                                                |                                                                         | 60sec                                             | 60 seconds                                |
|                                                |                                                                         | 120sec                                            | 120 seconds                               |
|                                                |                                                                         | 180sec                                            | 180 seconds                               |
| Duration pre-alarm                             | Adjustment of pre-alarm continue time                                   | 10 sec                                            | 10 seconds (default)                      |
|                                                |                                                                         | 6 sec                                             | 6 seconds                                 |
| Alarm                                          | With/without theft-alarm function                                       | Disable                                           | No function                               |
|                                                |                                                                         | Enable                                            | With function (default)                   |
| Panic alarm switch                             | With/without panic alarm function                                       | Disable                                           | No function                               |
|                                                |                                                                         | Enable                                            | With function (default)                   |
| KOS auto lock                                  | With/without KOS auto lock function                                     | Enable                                            | No function (default)                     |
|                                                |                                                                         | Disable                                           | With function                             |
| Fob out of car                                 | With/without KOS key exterior detection function                        | Enable                                            | No function                               |
|                                                |                                                                         | Disable                                           | With function (default)                   |
| KOS feature                                    | KOS function adjustment                                                 | Both enable                                       | All KOS functions are enabled (default).  |
|                                                |                                                                         | DoorEntry enable                                  | Only door entry function is enabled.      |
|                                                |                                                                         | ENG strt enable                                   | Only engine starting function is enabled. |
|                                                |                                                                         | Both disabled                                     | All KOS functions are disabled.           |
| KOS unlock disable time                        | Adjusts the door unlock inhibition period after door lock is activated. | 0sec                                              | 0 seconds                                 |
|                                                |                                                                         | 3sec                                              | 3 seconds (default)                       |
|                                                |                                                                         | 5sec                                              | 5 seconds                                 |

## THEFT-ALARM SYSTEM

## GENERAL INFORMATION

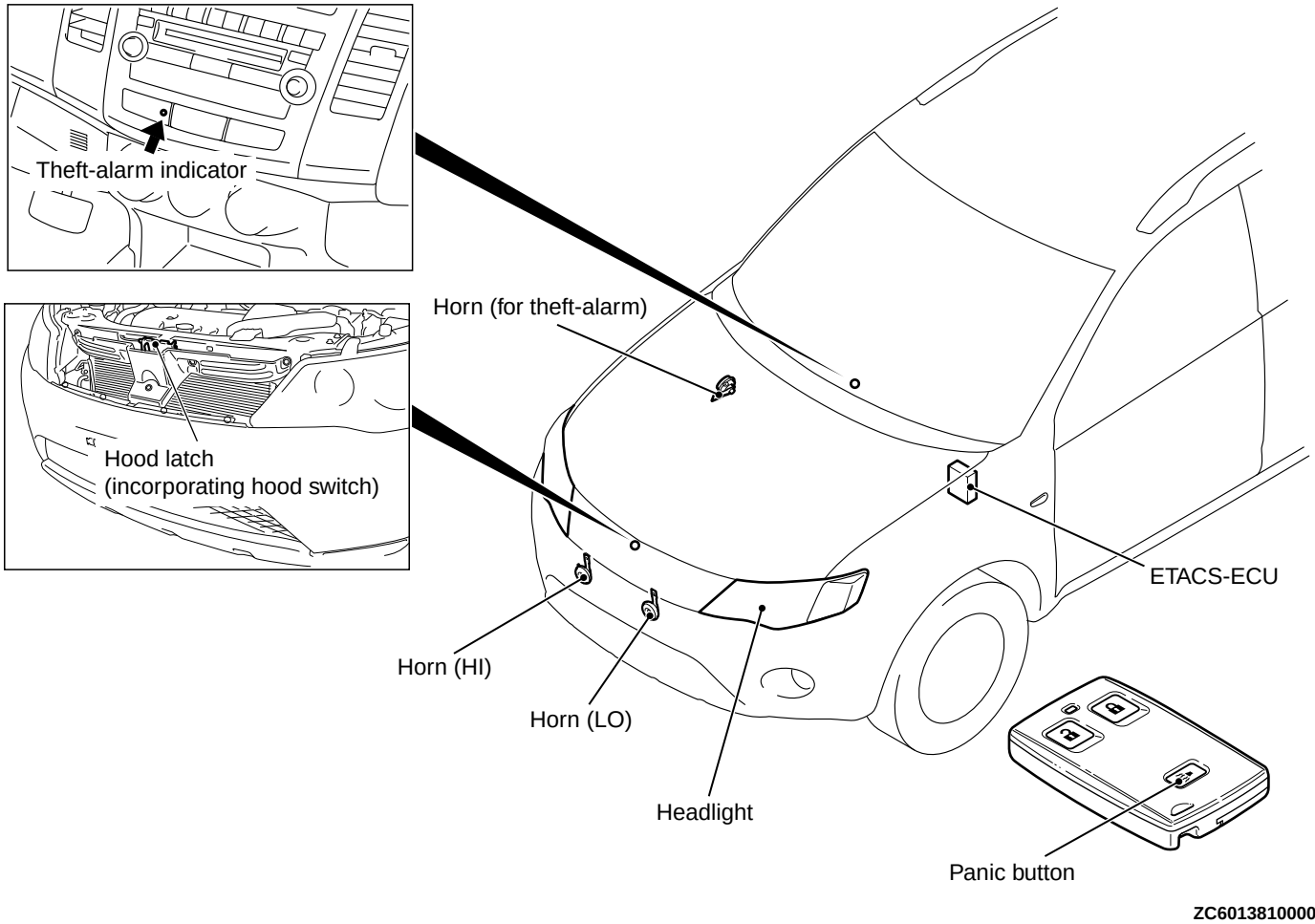
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▪When the doors are locked using the keyless entry or KOS (except when locked by using the key cylinder or door lock switch), the improper opening of door or hood causes the ETACS-ECU function and control to give off an alarm with the flashing of head lights and the intermittent sounding of horn. Also, the ETACS-ECU warns that the theft-alarm

system is being set by flashing the theft-alarm indicator.(Refer to ETACS-ECU function and controls P.54A-34)

▪By pressing the panic button of transmitter, the flashing of head lights and the intermittent sounding of horn can be performed by remote control operation.(Refer to ETACS-ECU function and controls P.54A-34)

## CONSTRUCTION DIAGRAM



## DATA LIST

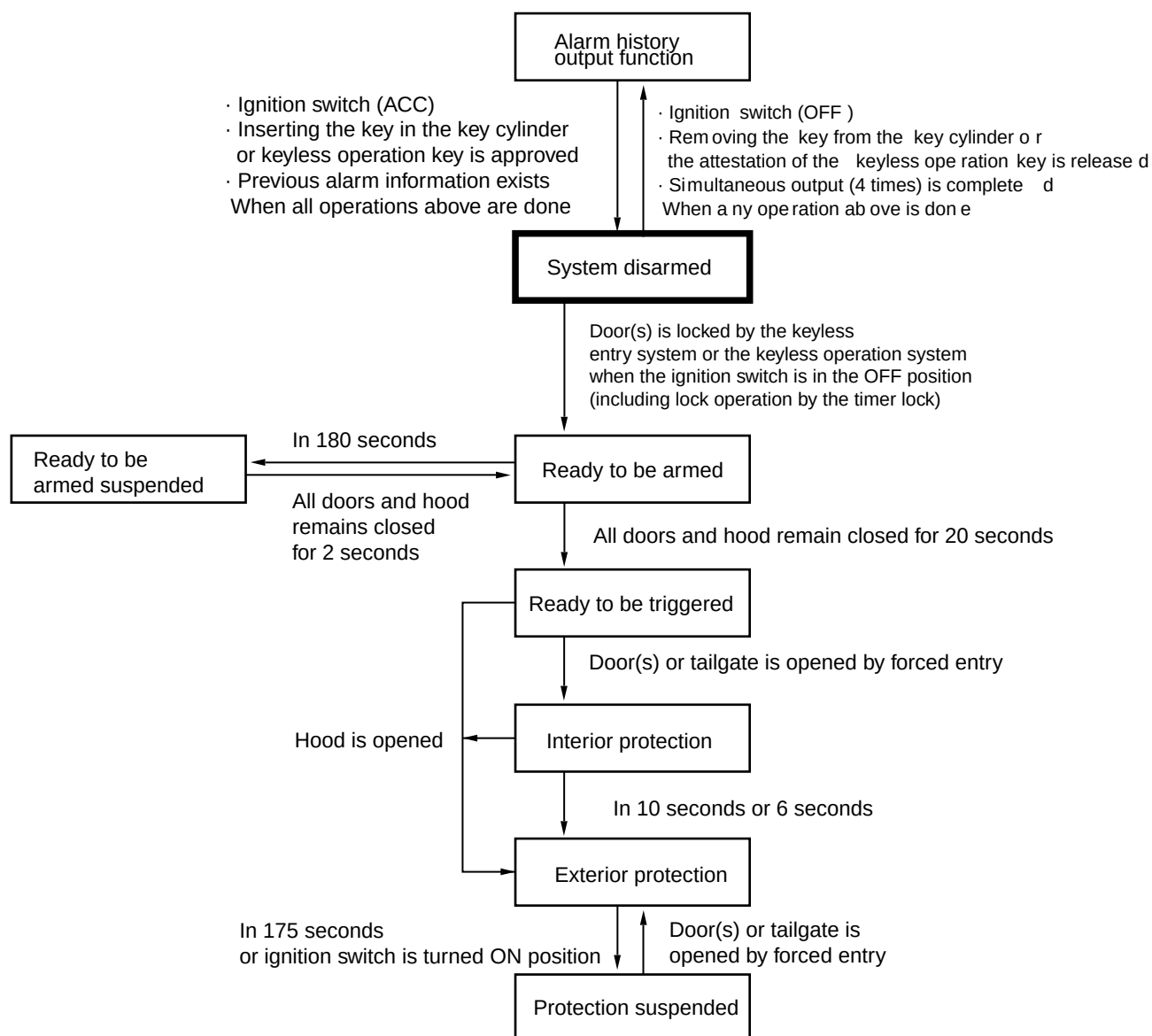
Using the M.U.T.-III scan tool MB991958, the input data sent from the sensors and switches can be read. For service data items, refer to Workshop Manual.

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## ETACS-ECU FUNCTIONS AND CONTROLS

M25400000120USA0000010002

## THEFT-ALARM FUNCTION (DEFAULT: WITH FUNCTION)



ZC6010800000

Operating the door lock with the keyless entry transmitter or keyless operation key (except when locked by the key cylinder or door lock switch) makes the vehicle ready for the alarm, and a "ping" tone starts. After 20 seconds, the incorrect door opening (opening door or liftgate without unlocking by the keyless entry) sounds the room alarm with "Beep" tone under the alarm state. After 10 seconds, in addition to the "Beep" tone, the headlight blink, and

the horn sounds intermittently for 175 seconds to execute exterior protection. If the hood is opened while the vehicle is under the alarm state or the interior protection state, the exterior protection will be executed immediately.

**NOTE:** Availability of the theft-alarm and the warning output can be adjusted by the configuration function (Refer to P. 54A-35).

**ALARM HISTORY OUTPUT FUNCTION**

If the interior protection or the exterior protection is activated between the last OFF operation and the next ON operation of the ignition switch, this function informs the driver by flashing the theft-alarm indicator and by the tone alarm.

**PANIC ALARM FUNCTION(DEFAULT: WITH FUNCTION)**

With the ignition key removed from the ignition key cylinder, when the panic button of transmitter is pressed, the panic alarm is given off with flashing of

headlights and intermittent sounding of horn for 175 seconds.

*NOTE: Using the configuration function, the panic alarm function can be enabled/disabled. (Refer to P. 54A-35)*

**CONFIGURATION FUNCTION**

M25400000119USA0000010002

Using scan tool MB991958 adjusts the following function. The programmed information is held even when the battery is disconnected.

| Adjustment item<br>(scan tool MB991958 display) | Adjustment item                       | Adjusting contents (scan tool MB991958 display) | Adjusting contents      |
|-------------------------------------------------|---------------------------------------|-------------------------------------------------|-------------------------|
| Alarm                                           | With/without theft-alarm function     | Disable                                         | Without function        |
|                                                 |                                       | Enable                                          | With function (default) |
| Duration of pre-alarm                           | Adjustment of pre-alarm continue time | 10 sec                                          | 10 seconds (default)    |
|                                                 |                                       | 6 sec                                           | 6 seconds               |
| Panic alarm switch                              | With/without panic alarm function     | Disable                                         | Without function        |
|                                                 |                                       | Enable                                          | With function (default) |

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