

GROUP 42

BODY

CONTENTS

GENERAL INFORMATION	42-2	DOOR LOCK AND TAILGATE LOCK	42-9
		KEYLESS ENTRY SYSTEM	42-12
MAIN BODY	42-3	POWER WINDOW	42-17
BODY PANELING	42-3	WEATHERSTRIP	42-20
BODY SHELL	42-4		
QUIETNESS	42-7	FUEL LID	42-22
BODY COLOUR CHARTS	42-8	WINDOW GLASS	42-22
HOOD	42-9	SUNROOF	42-24
DOOR	42-9		

GENERAL INFORMATION

M2420000100541

FEATURES

WEIGHT REDUCTION AND HIGH RIGIDITY

- Application ranges of high tension steel plate, antirust steel plate, and uneven thickness steel plate have been expanded.
- Connection between cowl top with larger cross-sectional surface and spring housing has been improved.
- Rigidity of the rear shock absorber installation part has been improved.
- 3-way support structure for the front frame has been adopted.

REDUCTION OF VIBRATION, NOISE, AND AERODYNAMIC NOISE

- Straight frame structure has been adopted.
- Uneven thickness steel plate and curved front floor have been introduced.
- Rigidity of the suspension installation part has been improved.
- More sound absorption/insulator and styrene foam filler have been adopted.

IMPROVEMENTS IN SAFETY

- Features an impact safety body for the main body.
- Side door beam has been adopted for improving safety during side collision.
- Features an inside lock cable on the front door to prevent door locking due to door deformation upon frontal impact.
- One-touch power window equipped with safety mechanism (with key-off operation) has been installed. <Vehicles for Hong Kong and Singapore>
- One-touch power window equipped with safety mechanism (with key-off operation) has been installed. <Except vehicles for Hong Kong and Singapore>
- If vehicle goes under the water, the power window can be opened using the power window switch. <Vehicles for Hong Kong and Singapore>

IMPROVEMENTS IN OPERATION QUALITY

- Multimode keyless entry system (with retractable door mirror and resume control functions) has been adopted. <Except vehicles for Hong Kong and Singapore>
- Multimode keyless entry system (with door mirror retract/open function, power window and sunroof control) has been adopted. <Vehicles for Hong Kong and Singapore>
- Comes with a centre door lock with a lock/unlock option in all doors (including the tailgate).
- When all the doors are locked, driver's door can be opened using the driver's side inside door handle. (Override function)
- Convenient bar type handle has been adopted as an outside door handle.
- Electrically operated tailgate lock release handle that requires only the slightest operating force has been adopted.

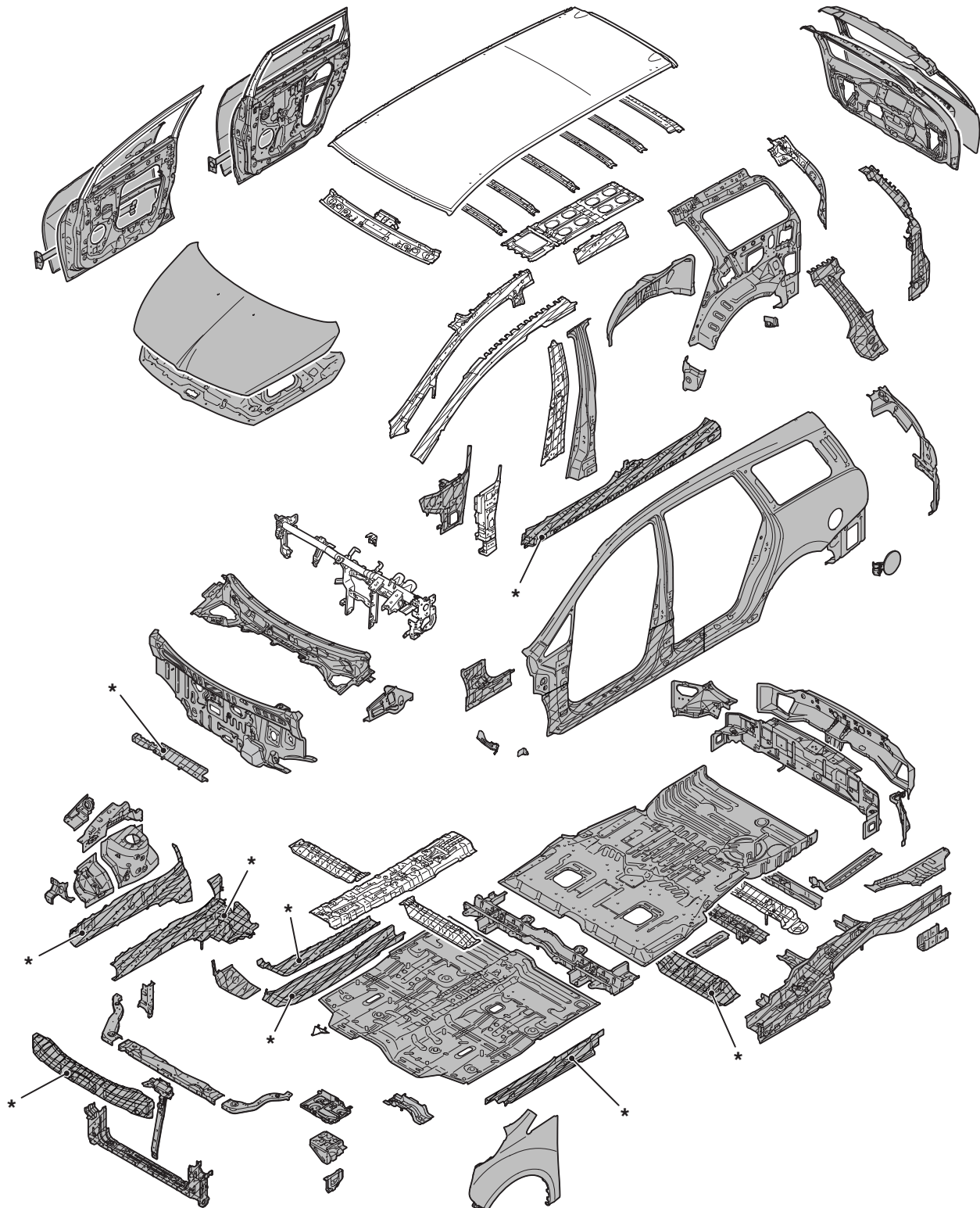
IMPROVEMENTS OF PRODUCT PACKAGE AND APPEARANCE

- By improving the engaging sound in the door latch and striker, the door locking sound has been enhanced.
- UV protection glasses for the front door windows have been installed. <Vehicles for Hong Kong and Singapore>
- Privacy glasses for the rear window glasses, quarter window glasses, and a tailgate window glass have been installed for optional. <Vehicles for Hong Kong, Singapore, Australia and New Zealand>
- The manual tilt-up function for the front sunroof and the power slide mechanism for the rear sunroof have been installed respectively. (Option)
- Fuel filler cap holder has been installed to the fuel lid.
- A cover has been installed to the upper side of the hood latch to deter thieves.
- A cover has been installed on the hood release cable near the hood latch to deter thieves.
- Security alarm function has been integrated into the keyless entry system. <Vehicles for Hong Kong and Singapore>
- "P" position shift linked with door unlock function has been introduced to the centre door lock system. <Vehicles for Hong Kong and Singapore>

MAIN BODY

BODY PANELING

M2420002000302



- : Anti-corrosion steel panels
- ▨ : High-tensile steel panels (*: Indicates 590MPa-high-tensile steel panels.)

- RISE (Reinforced Impact Safety Evolution) has been adopted for the main body in order to ensure all-round impact safety at high level.

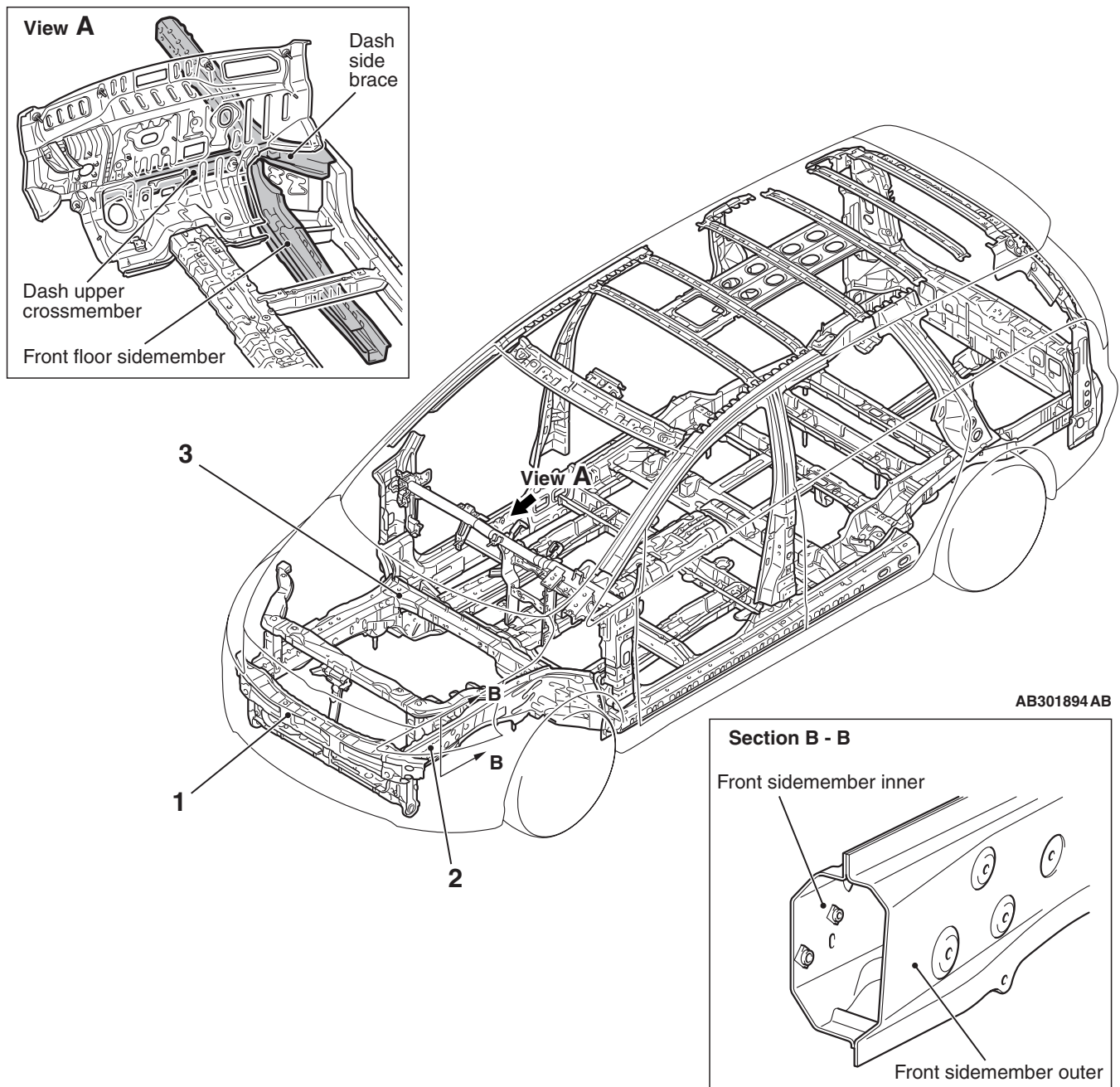
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- The use range of anti-corrosion steel plates has been expanded and high tensile steel plates have been optimally arranged. In addition, anti-corrosion steel plates are adopted for items such as the bonnet, doors, inner panels of tailgate, and reinforcements in order to improve the rust resistance of the main body and to reduce its weight.

BODY SHELL

IMPACT SAFETY BODY

M2420003000220



The front and rear structures to absorb high energy, and the highly tough cabin structure reduce the risk of passenger injuries at front-, rear-, and side-impact collisions, secure the space for life protection, and facilitate rescuing passengers. The structures also have the following features:

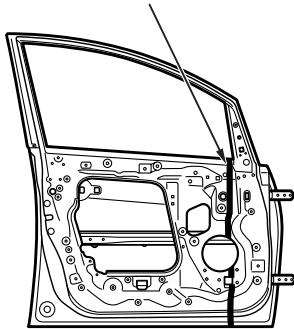
1. A front end beam with a large cross section has been adopted for the front end in order to improve collision characteristics.
2. The front sidemembers have been changed to straight frames with an octagon cross section in order to improve collision characteristics.

3. The front frame structure is supported in three directions by the dash upper crossmember, dash side braces, and large front floor sidemembers in order to improve collision characteristics, and increase strength and rigidity.

STEEL PLATE WITH UNEVEN THICKNESS

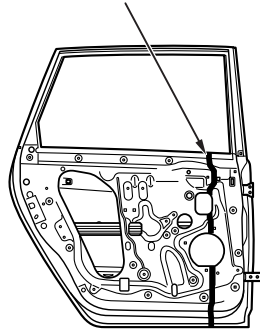
Front door inner panel

Thickness is thicker on the forward part of the vehicle from this line.



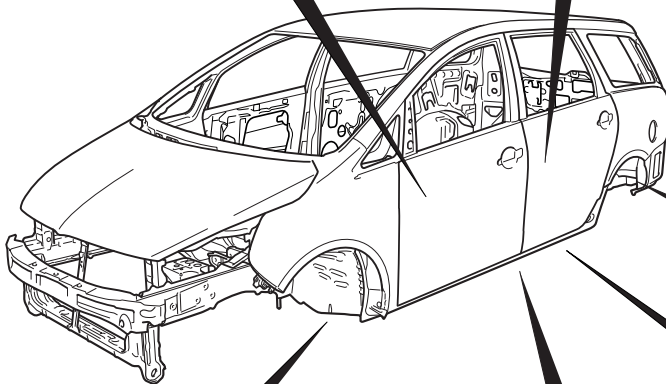
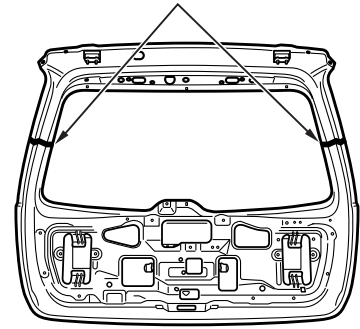
Rear door inner panel

Thickness is thicker on the forward part of the vehicle from this line.



Tailgate inner panel

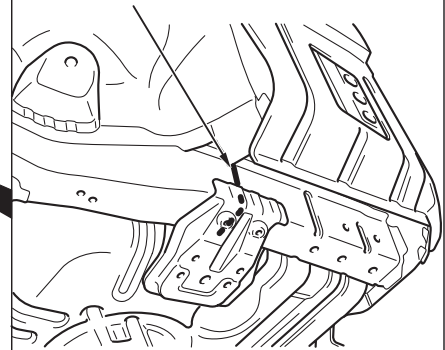
Thickness is thicker on the upper part of the vehicle from this line.



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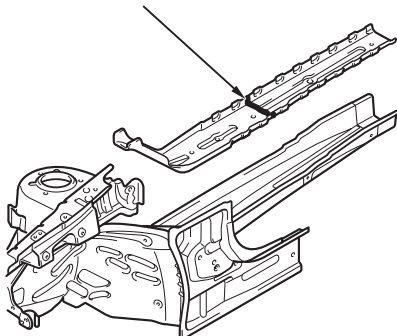
Rear floor sidemember

Thickness is thicker on the forward part of the vehicle from this line.



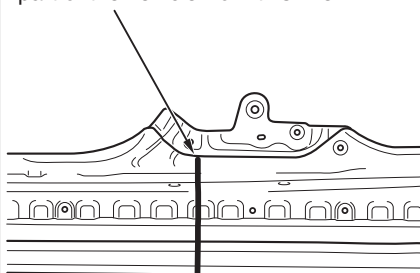
Front floor sidemember reinforcement

Thickness is thicker on the backward part of the vehicle from this line.



Side sill reinforcement

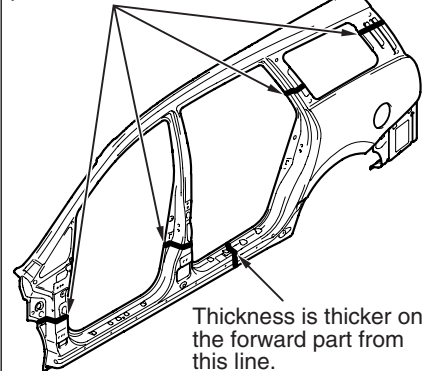
Thickness is thicker on the forward part of the vehicle from this line.



(Condition with side outer panel removed)

Side outer panel

Thickness is thicker on the lower part of the vehicle from this line.

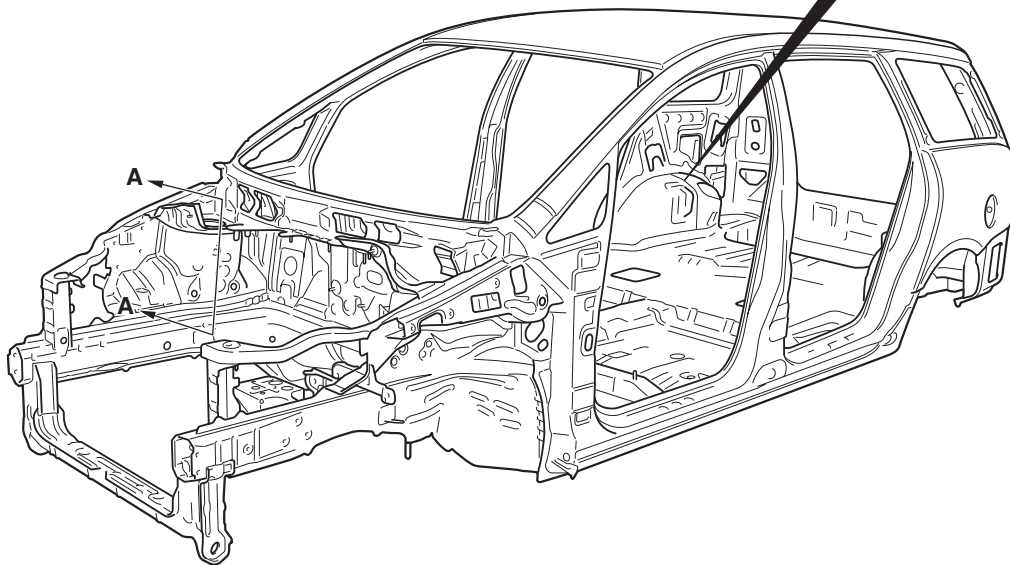
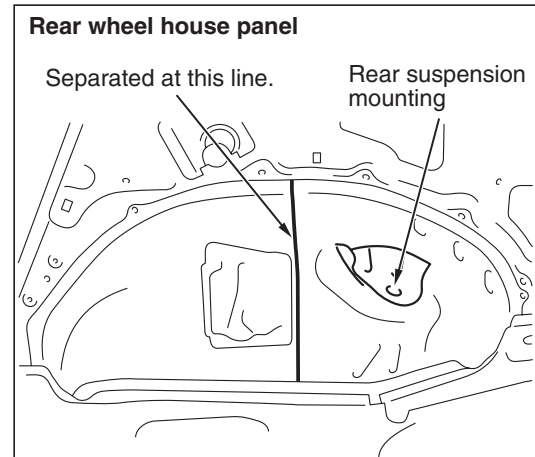
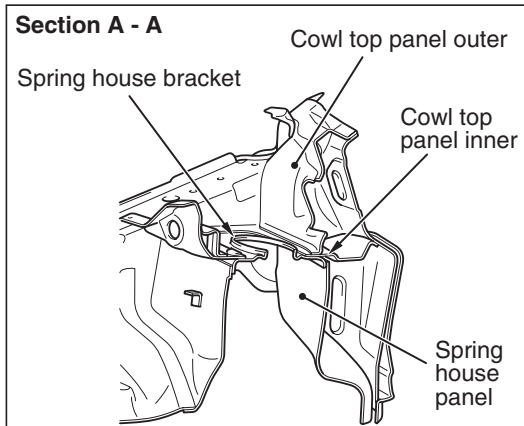


Thickness is thicker in the order of upper part, backward part and lower part.

Steel plates with an uneven thickness* have been adopted for the parts illustrated in the figure in order to improve impact safety and to reduce weight.

NOTE: *: Steel plates with different thickness welded together to make one steel plate

STEERING ABILITY

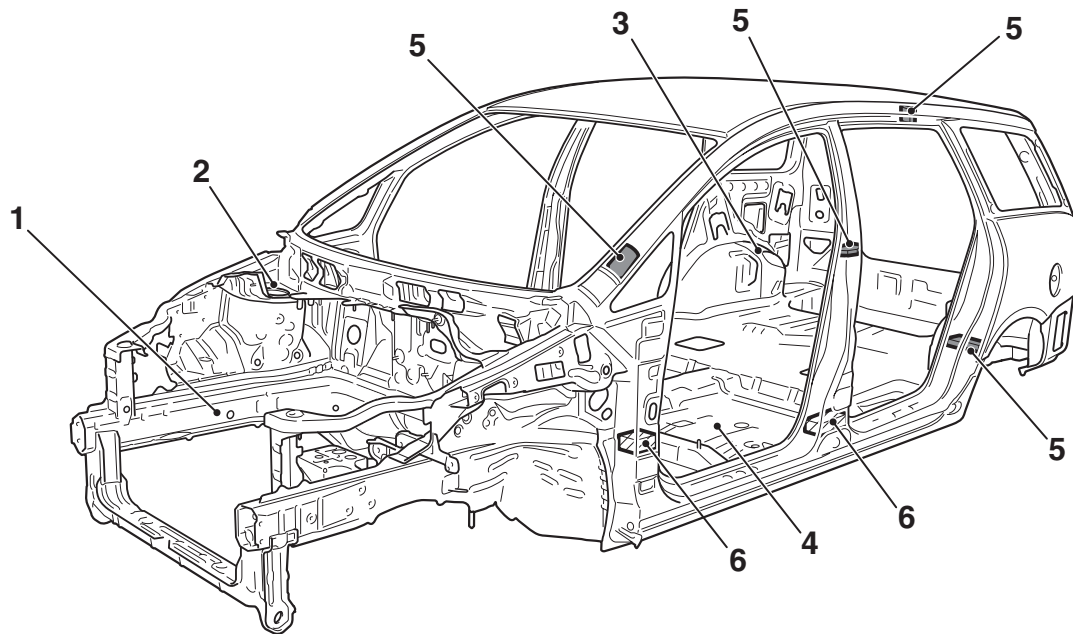


AB301895 AB

- The coupling between the cowl tops with a large cross section and the spring houses has been strengthened in order to increase the rigidity of the front suspension installation sections, thereby improving the steering ability.
- The rear wheel houses each consist of a front and a rear panel, and thick steel plates are used for the rear wheel house panels where the rear suspensions are installed, in order to increase the rigidity and improve the steering ability.

QUIETNESS

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AB300473AB

1. The sidemembers have been straightened from the front to the rear in order to reduce vibrations.
2. The sections coupling the cowl tops with a large cross section, to the spring houses have been strengthened in order to increase the rigidity of the suspension installation sections, thereby reducing incoming road noise.
3. Thick steel plates have been adopted for the rear wheel house panels where the rear suspensions are installed, in order to increase the rigidity of the suspension installation sections, thereby reducing incoming road noise.
4. The front floor pans have been curved in order to reduce vibration and noise.
5. The front pillars, side roof rails, centre pillars, and the front sections of the rear wheel houses are filled with acoustic foam materials in order to prevent incoming noise.
6. A polyurethane foam has been inserted into the bottoms of the front and centre pillars in order to prevent incoming noise.

BODY COLOUR CHARTS

M2420005000862

[VEHICLE FOR GENERAL EXPORT (EXCEPT HONG KONG AND SINGAPORE), GCC AND AUSTRALIA AND NEW ZEALAND]

Outer panel - colour					Inner panel - colour	
Colour	Colour code	Colour number	Colour name (Precious name)	Composition of film	Colour number	Colour name
SILVER	A19	CMA10019	Cool Silver Metallic	Metallic	AC10595	GREY
DARK GREY	A72	CMA10072	Dark Blueish Grey Mica	Pearl	CMH17005	DARK GREY
DEEP BLUE	T65	CMT10065	Deep Blue Mica	Pearl	CMB17002	DARK BLUE
BEIGE	S74	AC11174	Beige Metallic (Fraser Beige)	Metallic	AC10845	BEIGE
BLACK	X24	CMX10024	Black Mica	Pearl	AC10903	BLACK
WHITE	W09	AC10809	White Solid	Solid	CMW17002	WHITE
RED	P26	CMP10026	Red Metallic	Metallic	CMR17003	RED
PURPLE	V03	CMV10003	Medium Purple Metallic	Metallic	CMV17004	PURPLE

NOTE:

- Inner panel-colour refers to the coat colour of the engine, cabin and floor.
- Black (AC10657) is used for the roof rail bars.
- Medium Grey Metallic (CMH18022) is used for the radiator grille.

[VEHICLE FOR HONG KONG AND SINGAPORE]

Outer panel - colour					Inner panel - colour	
Colour	Colour code	Colour number	Colour name (Precious name)	Composition of film	Colour number	Colour name
SILVER	A19	CMA10019	Cool Silver Metallic	Metallic	AC10595	GREY
DARK GREY	A72	CMA10072	Dark Blueish Grey Mica	Pearl	CMH17005	DARK GREY
DEEP BLUE	T65	CMT10065	Deep Blue Mica	Pearl	CMB17002	DARK BLUE
BEIGE	S74	AC11174	Beige Metallic (Fraser Beige)	Metallic	AC10845	BEIGE
BLACK	X24	CMX10024	Black Mica	Pearl	AC10903	BLACK
WHITE	W23	CMW10023	Warm White Pearl	Pearl	AC10955	WHITE
RED	P26	CMP10026	Red Metallic	Metallic	CMR17003	RED
PURPLE	V03	CMV10003	Medium Purple Metallic	Metallic	CMV17004	PURPLE

NOTE:

- Inner panel-colour refers to the coat colour of the engine, cabin and floor.
- Black (AC10657) is used for the roof rail bars.
- Medium Grey Metallic (CMH18022) is used for the radiator grille.

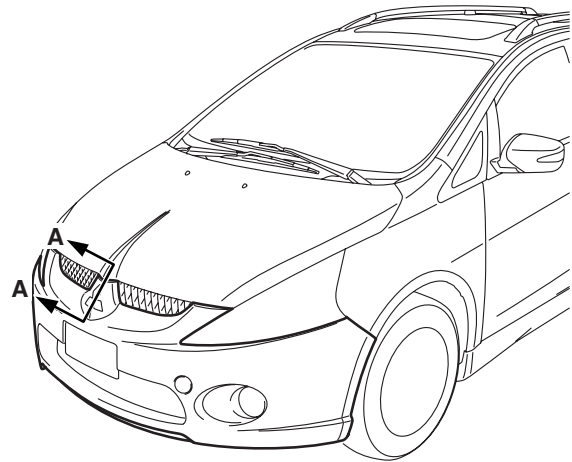
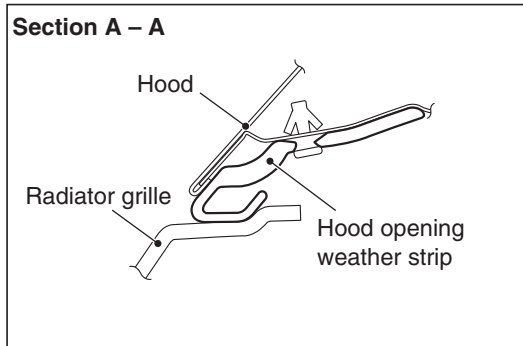
HOOD

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HOOD OPENING WEATHERSTRIP

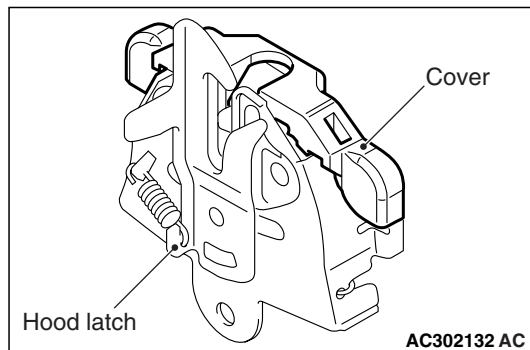
Hood opening weather strip has been installed in front of the hood, reducing wind noise during driving and improving appearance.

CONSTRUCTION DIAGRAM



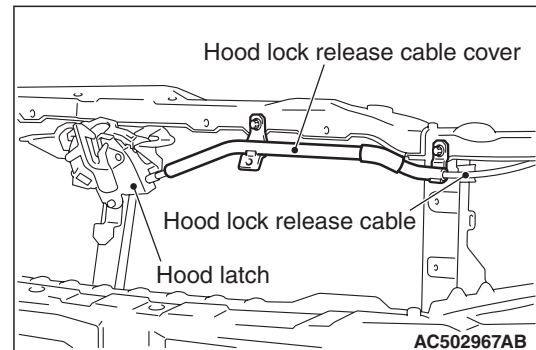
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HOOD LATCH COVER



A cover is added to the hood latch upper part to deter thieves.

HOOD LOCK RELEASE CABLE COVER



A hood lock release cable cover has been installed to the hood lock release cable near the hood latch. This prevents the hood latch from being unlocked by manipulating the hood lock release cable through the grille gaps to deter thieves.

DOOR

DOOR LOCK AND TAILGATE LOCK

M2420009000262

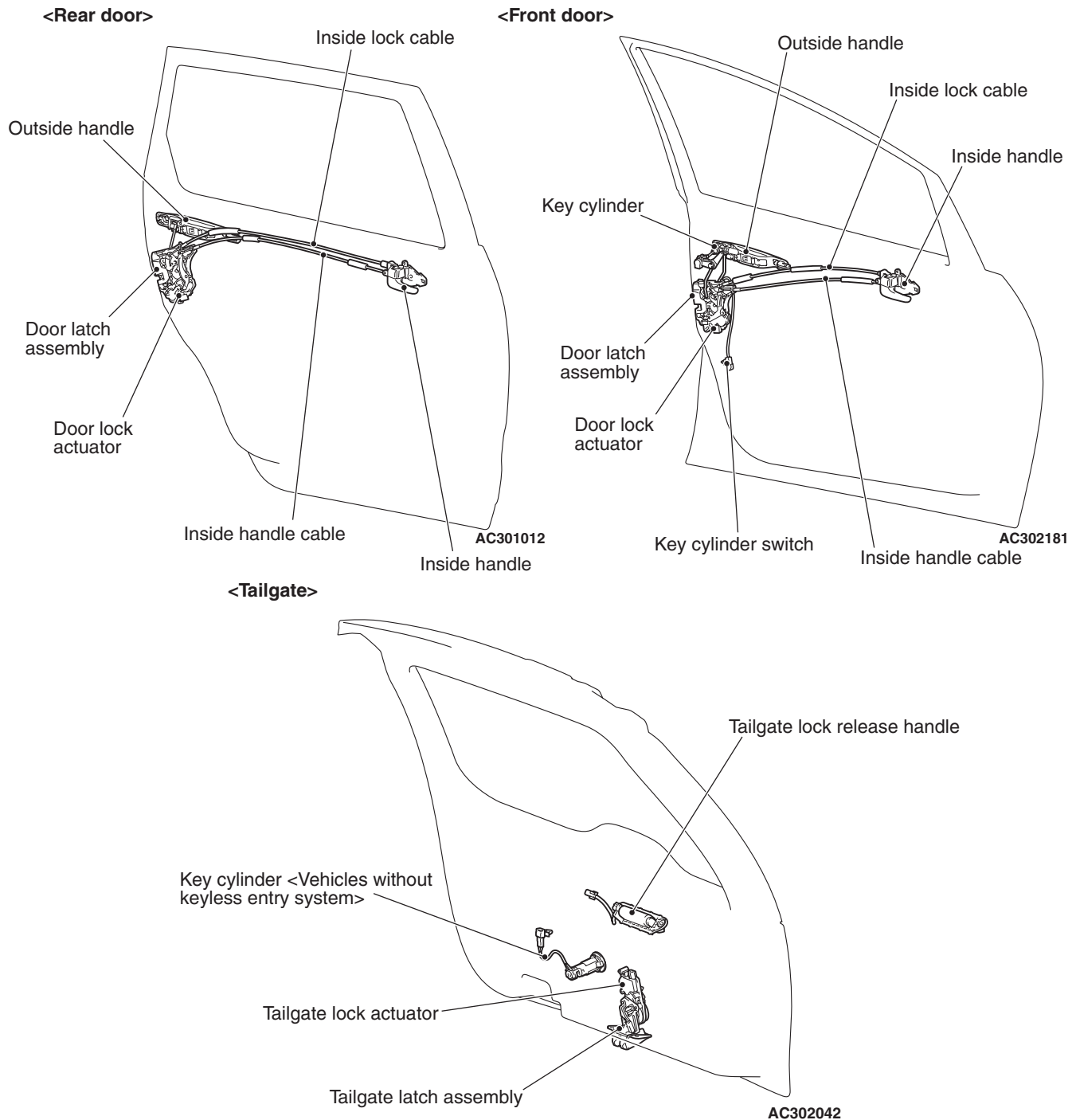
CENTRAL DOOR LOCKING

- A centre door lock system that locks and unlocks all doors (including the tailgate) via the driver's door key cylinder or the centre door lock switch has been installed. <Vehicles for Hong Kong and Singapore>

- All the doors (including tailgate) can be locked/unlocked, using the door key cylinders on the driver's door, passenger's door, tailgate (vehicles without keyless entry system), or the driver's door inside lock knob. <Except vehicles for Hong Kong and Singapore>

- A child protection is used to prevent the rear doors from being opened accidentally during driving.
- Key-in prevention function has been introduced for driver's door.
- The door unlock function linked with "P" position shift has been adopted. <Vehicles for Hong Kong and Singapore>
- Direct combination key cylinder mechanism has been adopted to maintain its function at the side collision and improve theft protection.

CONSTRUCTION DIAGRAM



DESCRIPTION OF STRUCTURE AND OPERATION

CENTRAL DOOR LOCKING

- All doors (including the tailgate) locks and unlocks by operating the driver's door key or the centre door lock switch.

NOTE: When the centre door lock switch is locked with the driver's door opened, all doors other than driver's door (including the tailgate) will lock. <Vehicles for Hong Kong and Singapore>

- All the doors (including tailgate) can be locked/unlocked, using the door key cylinders on the driver's door, passenger's door, tailgate (vehicles without keyless entry system), or the driver's door inside lock knob. <Except vehicles for Hong Kong and Singapore>
- The driver's door can be opened by pulling the driver's door inside handle even though the driver's door inside lock knob is locked. This function is called "Override function".

KEY-IN PREVENTION FUNCTION

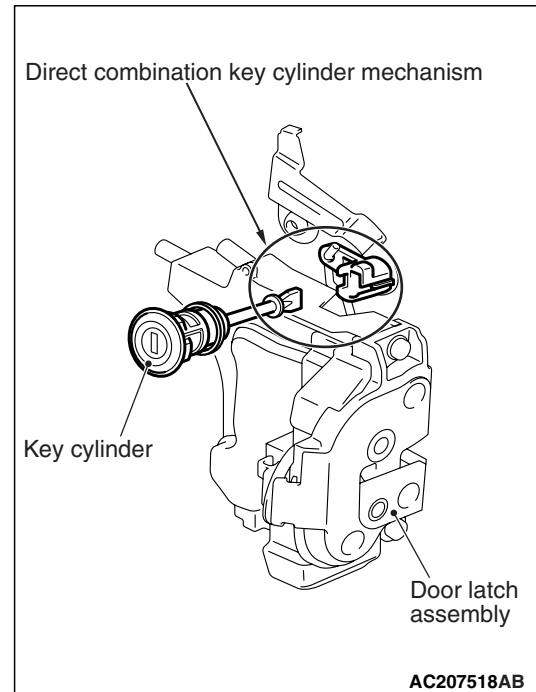
If the driver's door remained open, it cannot be locked even though the driver's door key cylinder or driver's side inside lock knob is pushed. This prevents the ignition key from being left in the passenger compartment.

DOOR UNLOCK FUNCTION LINKED WITH "P" POSITION SHIFT <VEHICLES FOR HONG KONG AND SINGAPORE>

When the selector lever is shifted to the "P" (parking) position, all the doors (including the tailgate) will unlock, improving passengers' convenience during alighting. Using a customisation function*, the door unlock function linked with "P" position shift can be changed to the following setting: "Active," "Active only when power window lock switch is OFF," "Inactive." The initial setting at factory is "Inactive."

NOTE: *. Using a customisation function, the door unlock function linked with "P" position shift can be set. Refer to GROUP 54B, Customize Function P.54B-40.

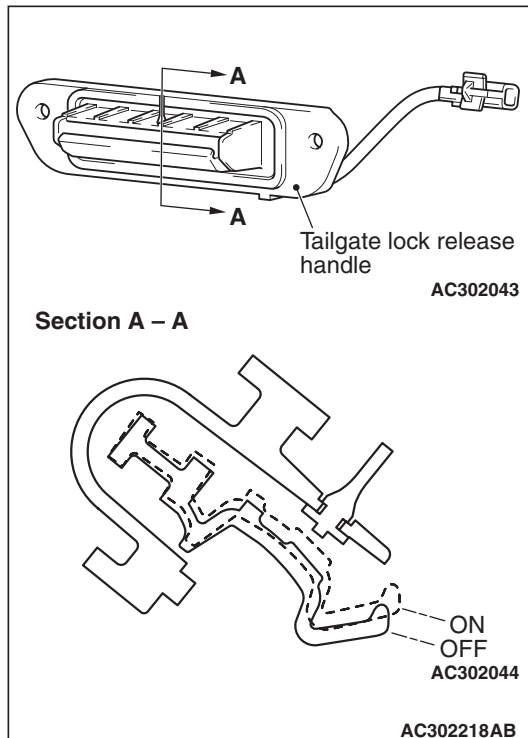
DIRECT COMBINATION KEY CYLINDER MECHANISM



- When doors are unlocked, an impact of a side collision is not easily transmitted to the door latch structurally, improving door opening performance.
- Even if any door key cylinder is attempted to be tampered with the doors locked, the tampering force is not easily transmitted to the door latch to deter thieves.

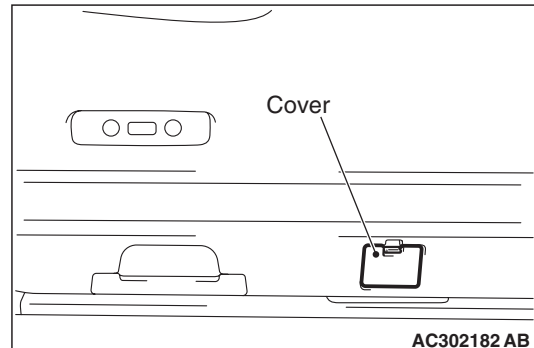
TAILGATE LOCK

TAILGATE LOCK RELEASE HANDLE

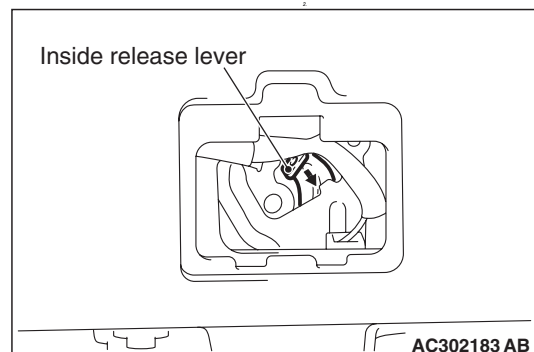


Electrically-operated release handle that requires only the slightest operating force and has no temperature dependency has been adopted to improve the opening operation. When the tailgate lock release handle is operated, the switch is turned ON or OFF.

NOTE: If the tailgate cannot be opened from the outside of the vehicle due to any malfunction such as discharged battery, it can be opened from the inside of the vehicle using the following procedures.



1. Remove the inside release lever cover from the inside of the vehicle.



2. Push down the inside release lever in the direction of arrow shown in the figure.
3. Open the tailgate while pushing it up.

KEYLESS ENTRY SYSTEM

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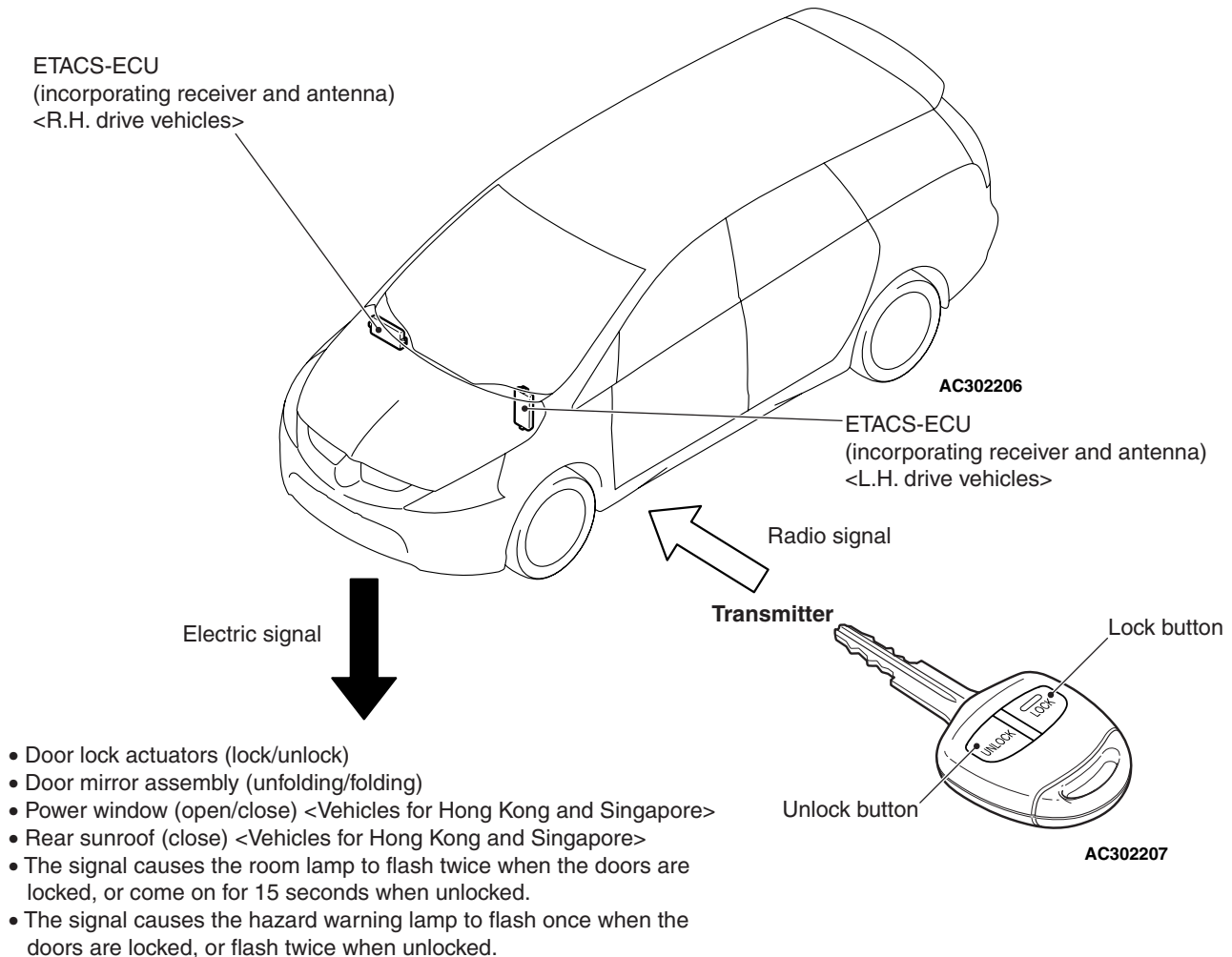
The multimode keyless entry system is installed. There are the following features.

- Transmitter has two buttons (LOCK/UNLOCK).
- The ETACS-ECU is equipped with the integral receiver and receiving antenna.
- Up to 4 security codes can be registered using M.U.T.-III.
- Answer-back function has been adopted.
- All doors (including the tailgate) can be locked or unlocked, and door mirrors can be folded or unfolded using the LOCK/UNLOCK buttons of the transmitter <Except vehicles for Hong Kong and Singapore>.
- The LOCK/UNLOCK buttons can lock or unlock all doors (including the tailgate), fully close the power windows and sunroof (if equipped), and fold or unfold the door mirrors. <Vehicles for Hong Kong and Singapore>

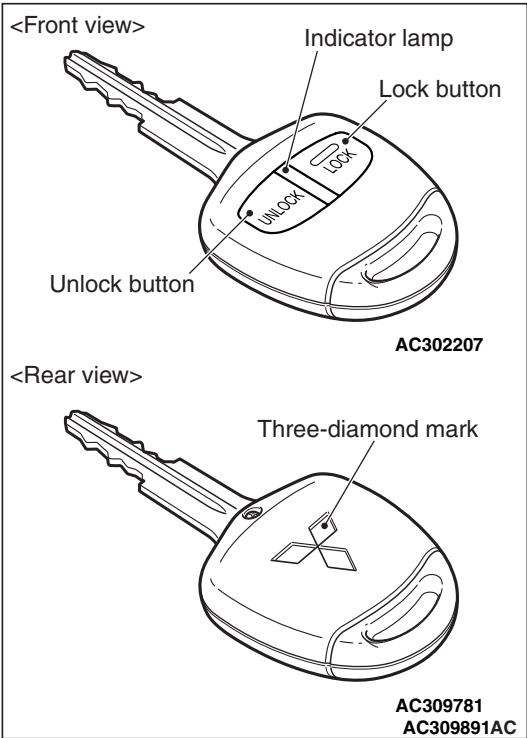
- Using a customisation function, the full closing operation of the power windows and sunroof can be enabled or disabled when required. In addition, the full opening operation of the power windows (only for front windows) can be added.
<Vehicles for Hong Kong and Singapore>

*NOTE: *:Using a customisation function, the operation of the power window, door mirrors and the sunroof can be enabled or disabled. Refer to GROUP 54B, Customize Function P.54B-40.*

CONSTRUCTION DIAGRAM



DESCRIPTION OF STRUCTURE AND
OPERATION
TRANSMITTER



- The transmitter is integrated into the master key.
- When either button is pressed, the transmitter emits a radio signal representing a specific ID code.
- There are two buttons on the transmitter; the lock button and the unlock button.
- An indicator lamp, which illuminates when signals are transmitted, is added on the key grip. This indicator lamp informs you of the signal transmission status and warns you of flat battery.
- A brilliant silver Three-diamond mark is stamped on the back side of the key grip to improve appearance.
- A signal transmission circuit (printed circuit) and a battery are housed in one case. The case is housed in the key grip, thus improving resistance to water ingress.
- A coin type battery, CR1616 is used in the transmitter.
- The transmitter switch operation allows the system to operate as follows:

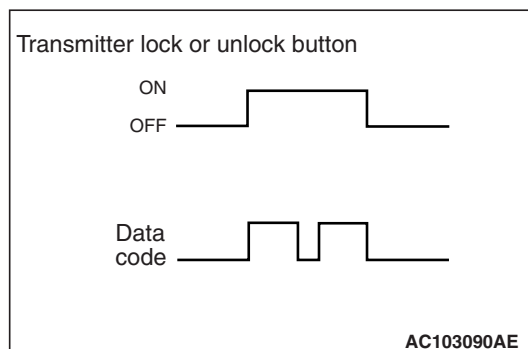
<EXCEPT VEHICLES FOR HONG KONG AND SINGAPORE>

Operation of keyless entry system	Operation of transmitter
All doors (including the tailgate) are locked.	Press the lock button once.
All doors (including the tailgate) are unlocked.	Press the unlock button once.
The door mirrors are retracted.	Press the lock button once to lock all doors (including the tailgate), and within 5 seconds press the lock button twice quickly.
The door mirrors return to the original position.	Press the unlock button once to unlock all doors, and within 5 seconds press the unlock button twice quickly.

<VEHICLES FOR HONG KONG AND
SINGAPORE>

System operation	The transmitter is operated.
All doors (including the tailgate) are locked. <i>NOTE: If the retracting function of the electric folding mirrors is added as an adjustment function, it can be retracted in synchronization with a lock operation.</i>	Press the lock button once.
All doors (including the tailgate) are unlocked. <i>NOTE: If the opening function of the electrical folding mirrors is added as an adjustment function, it can be opened in synchronization with an unlock operation.</i>	Press the unlock button once.
Fully close the power windows and sunroof. <i>NOTE: Using a customisation function, the full opening operation of the power window and sunroof can be enabled or disabled.</i>	Press the lock button once to lock all doors (including the tailgate), and within 30 seconds press and hold the lock switch for 1 second or longer.
Fully open the power windows (only for front windows). <i>NOTE: Using a customisation function, the full opening operation of the power window (only for front doors) can be set.</i>	Press the unlock button once to unlock all doors (including the tailgate), and within 30 seconds press and hold the unlock switch for 1 second or longer.
The door mirrors are retracted.	Press the lock switch once to lock all doors (including the tailgate), and within 30 seconds press the lock switch twice quickly.
The door mirrors return to the original position.	Press the unlock switch once to unlock all doors, and within 30 seconds press the unlock switch twice quickly.

ENCRYPTED CODE



The figure shows the codes transmitted from the transmitter. Every time the button is pressed, the data code is transmitted twice. The encrypted code for user identification is a combination of 0 and 1, and more than 1 million different combinations are available. In addition to the encrypted code, the data code contains a rolling code that changes at each transmission, protecting transmission codes from theft by copying.

ETACS-ECU (RECEIVER)

- The ETACS-ECU incorporates a receiver with an antenna. The receiver compares the code sent through the antenna from the transmitter with the code retained in the receiver.
- The ETACS-ECU sends a signal only when those two codes correspond and the rolling code is judged correct.
- All of those output signals are processed internally in the ETACS-ECU.
- A maximum of four encrypted code (4 transmitters) can be registered by connecting the diagnosis connector to the M.U.T.-III.

FUNCTION FOR CONFIRMING ETACS-ECU (RECEIVER) OUTPUT AND OPERATION

When the ETACS-ECU receives an electric wave signal of the identification code stored in the receiver, the ETACS-ECU outputs LOCK/UNLOCK signal and informs the driver of the keyless entry system operation by flashing the lamp. (Answer-back) Using a customisation feature, the flashing patterns for the answer-back function can be changed according to the table below. The initial setting at factory for the answer-back function is as follows: "Hazard warning lamp: LOCK, Flash once, UNLOCK, Flash twice / Room lamp: LOCK, Flash once, UNLOCK, Stay on for 15 seconds."

Item		Operation	
		Lock signal received	Unlock signal received
ETACS-ECU (Receiver)		Lock signal output	Unlock signal output
Hazard warning lamp	*1	Flash once (Initial setting)	Flash twice (Initial setting)
		Not available	Flash twice
		Flash once	Not available
		Not available	Not available
	*2	Flash twice	Flash once
		Not available	Flash once
		Flash twice	Not available
		Not available	Not available
Room lamp	*1	Flash once (Initial setting)	15 seconds (Initial setting)
	*2	Flash twice	Stay ON for 15 seconds

NOTE:

- *1: If the hazard warning lamp answer-back function is set to "LOCK: Flash once" or "UNLOCK: Flash twice", the room lamp answer-back function is set to "LOCK: Flash once" and "UNLOCK: Stay ON for 15 seconds" accordingly.
- *2: If the hazard warning lamp answer-back function is set to "LOCK: Flash twice" or "UNLOCK: Flash once", the room lamp answer-back function is set to "LOCK: Flash twice" and "UNLOCK: Stay ON for 15 seconds" accordingly.
- If the hazard warning lamp answer-back function is set to "LOCK and UNLOCK Not available", the room lamp answer-back function can be selected from either "*1" or "*2."
- Using a customisation feature, the hazard warning lamp answer-back function can be changed. Refer to GROUP 54B, Customise Function [P.54B-40](#) <When M.U.T.-III and SWS monitor are used>.

The horn answer-back function is available only when the auto lamp manner switch is installed optionally. Using a customisation function*, the horn answer-back function can be changed to the following setting: "Sounds once after locking operation," "Sounds once after two consecutive locking operation (within 1 second)," "Inactive." The initial setting of the horn answer-back function at factory is "Inactive." When the auto lamp manner switch is turned on, the horn answer-back function operates according to the configured setting only in the daytime and does not operate at night. <Vehicles for Hong Kong and Singapore>

KEYLESS ENTRY TIMER LOCK TIME

If any door (including the tailgate) is not opened or closed within 30 seconds after the doors (including the tailgate) are unlocked by the keyless entry system, ETACS-ECU automatically outputs the door lock signal to lock the doors (including the tailgate). (When the power window is opened by the multi-mode keyless entry system, the doors are not locked). This function prevents the doors (including the tailgate) from being unlocked unexpectedly by operation errors. Using a customisation feature*, the timer lock delay can be changed to 30, 60, 120, or 180 seconds. The initial setting at factory is 30 seconds.

NOTE: *: Using a customisation feature, the timer lock delay can be changed. Refer to GROUP 54B, Customise Function [P.54B-40](#) <When M.U.T.-III and SWS monitor are used>.

OPERATION INHIBITION CONDITIONS

The operation of the keyless entry system is inhibited in the following conditions.

- When the ignition key is inserted into the ignition switch.
- When either door (including the tailgate) is open (the door switch: ON). (including door ajar)

SECURITY ALARM <VEHICLES FOR HONG KONG AND SINGAPORE>

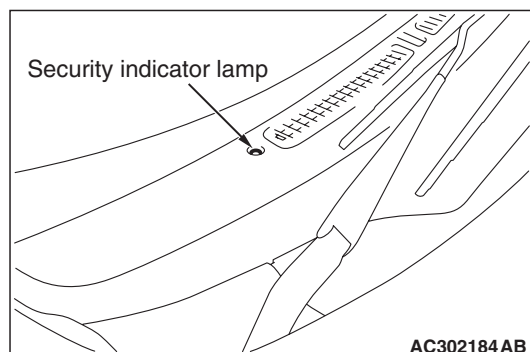
SECURITY ALARM FUNCTION

The security alarm function assumes a door lock operation by the transmitter of the keyless entry system. The function issues a warning when the doors (including the tailgate) or hood are opened by any operation other than the keyless entry system. Using a customisation function*, the security alarm setting can be changed to "Active: Horn and hazard lamp are used for alarm," or "Inactive." The initial setting at factory is "Inactive."

NOTE: *: Using a customisation function, the security alarm settings can be changed. Refer to GROUP 54B, Customize Function P.54B-39 <When M.U.T.-III and SWS monitor is not used> or P.54B-40 <When M.U.T.-III and SWS monitor are used>.

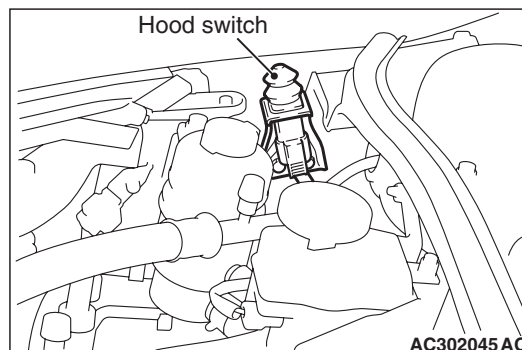
This customisation function is described on the instruction manual to help customers adjust.

SECURITY INDICATOR LAMP



The security indicator lamp has been installed on the upper side of the instrument panel (driver's side).

HOOD SWITCH



The bonnet switch is installed in the engine compartment. The bonnet switch detects that the bonnet is opened, and sends the signal to the ETACS-ECU.

POWER WINDOW

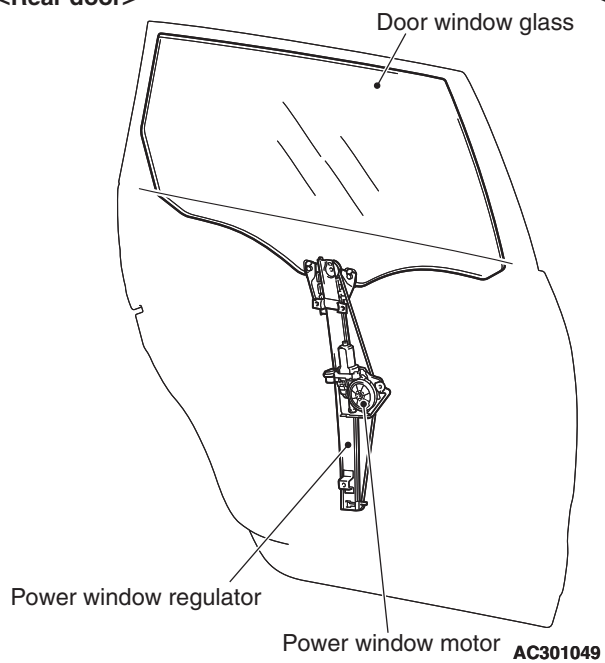
M2420022000069

The power window has the following features.

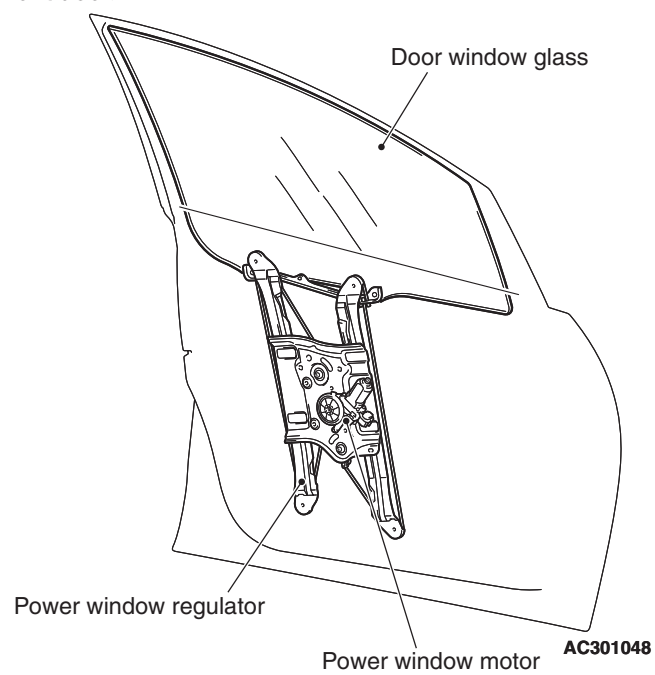
- New window glass regulator has been installed to the front doors.
- The new power window system is adopted. The system enables to open the power window even if the vehicle is submerged. <Vehicles for Hong Kong and Singapore>
- The anti-trapping function is adopted. <Vehicles for Hong Kong and Singapore>
- The power window timer function is adopted. <Vehicles for Hong Kong and Singapore>
- The power window lock switch is adopted. <Vehicles for Hong Kong and Singapore>

CONSTRUCTION DIAGRAM

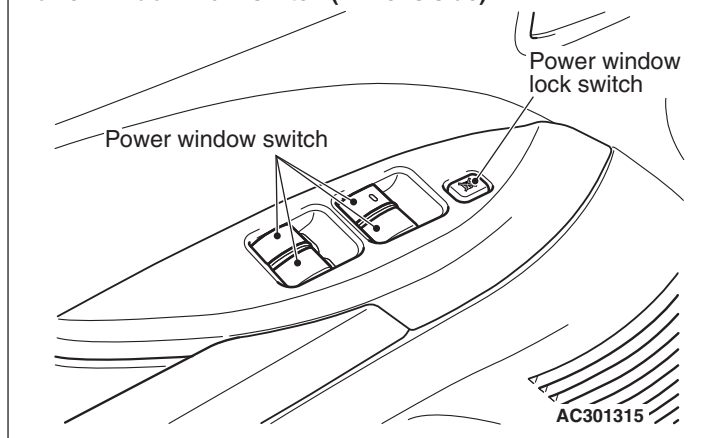
<Rear door>



<Front door>



Power window main switch (Driver's side)

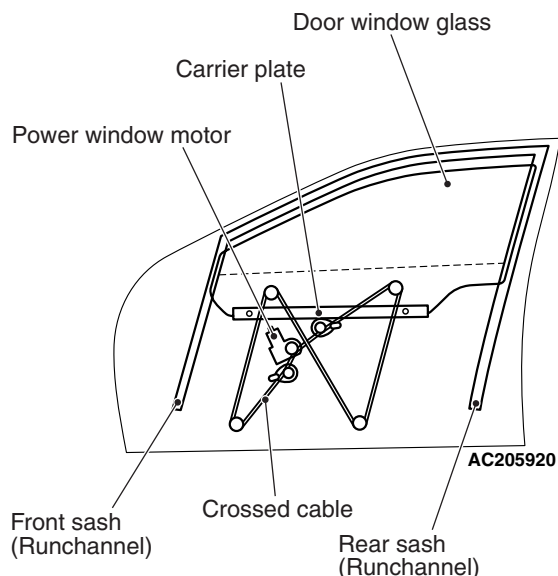


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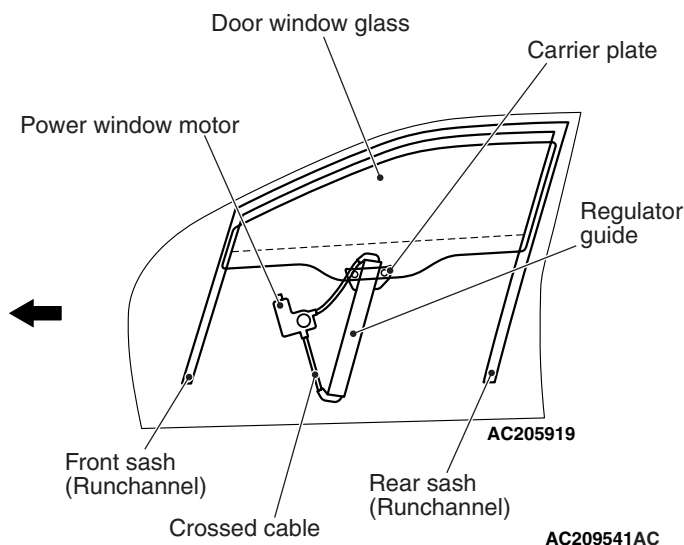
DESCRIPTION OF STRUCTURE AND OPERATION

FRONT DOOR POWER WINDOW REGULATOR

<New mechanism>



<Conventional mechanism>



- The window glasses smoothly slide up and down along the front and rear sashes.
- Window glass is supported by a longer carrier plate which extends in the cross direction of the vehicle, achieving higher rotational rigidity in the cross direction. And this mechanism prevents the vibration of the window glass during riding and alighting.
- Because this type of power window system does not have any guide rail, it prevents abnormal noise generated between carrier plate and guide rail in the conventional window glass regulator.

POWER WINDOW SYSTEM <VEHICLES FOR HONG KONG AND SINGAPORE>

- If the vehicle should be submerged in river or sea, each power window can be opened for a while to improve safety.
- "For a while" means that the period while the operation voltage is supplied from the battery to the power windows. The duration varies depending on the severity of the submergence, battery capacity, and battery charging level.
- The power window switch has a waterproofing structure which prevents water such as rain drops from entering via the upper side. If water should be entered, it is drained through the hole located on the lower area of the switch. No water may be accumulated.

NOTE: Only if the whole switch is submerged in water, the switch determines that the vehicle is submerged.

ANTI-TRAPPING FUNCTION <VEHICLES FOR HONG KONG AND SINGAPORE>

The power window with the safety mechanism is adopted. If any obstacle such as a hand or a head is detected to be trapped during a window glass closing operation, the window glass is opened by approximately 150 mm to improve safety.

NOTE: If anti-trapping function is activated consecutively three times or more, the fully closed position that power window switch has learned will be erased. With this state, auto-up/down function becomes in effective. To make the power window switch learn the fully closed position the initialization is required. Please refer to Workshop Manual for how to initialize.

POWER WINDOW SWITCH

- The power window switch employs the push-pull operation method to improve safety. To open a door window glass, press in the switch knob, and to close, pull it up.
- The one-touch mechanism is adopted to the driver's power window switch to fully open or close any door window glass in a single operation. <Vehicles for Hong Kong and Singapore>

- The one-touch mechanism is adopted to the driver's power window switch to fully close any door window glass in a single operation. <Except vehicles for Hong Kong and Singapore>

POWER WINDOW TIMER FUNCTION <VEHICLES FOR HONG KONG AND SINGAPORE>

The power window has a timer function which allows the window glass to be closed or opened after the ignition switch is turned OFF. (During the timer operation, if the driver's door is opened, the time is extended by 30 seconds from the moment. However, the timer is expired when the driver's door is closed during the extended time).

POWER WINDOW LOCK SWITCH <VEHICLES FOR HONG KONG AND SINGAPORE>

The driver's power window switch is equipped with the lock switch. This switch inhibits the opening/closing operation of the door window glass by the front passenger's power window switch or rear power window switches. Using a customisation feature*, the lock switch operation can be configured to "All power windows are operative when locked" or "Only driver's side power window are operative when locked." The initial setting at factory is "When locked, operation from all seats is possible."

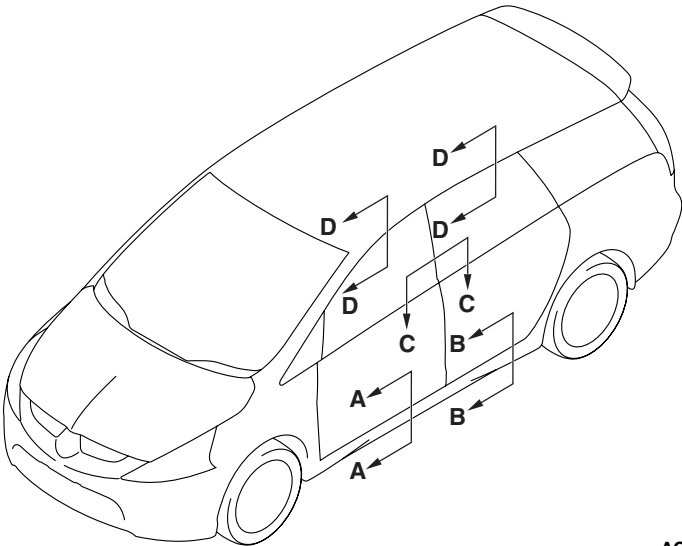
*NOTE: *:Using a customisation feature, the power window lock switch operation can be changed. Refer to GROUP 54B, Customize Function [P.54B-40](#).*

WEATHERSTRIP

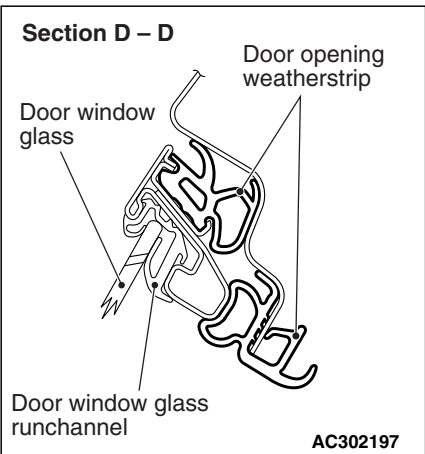
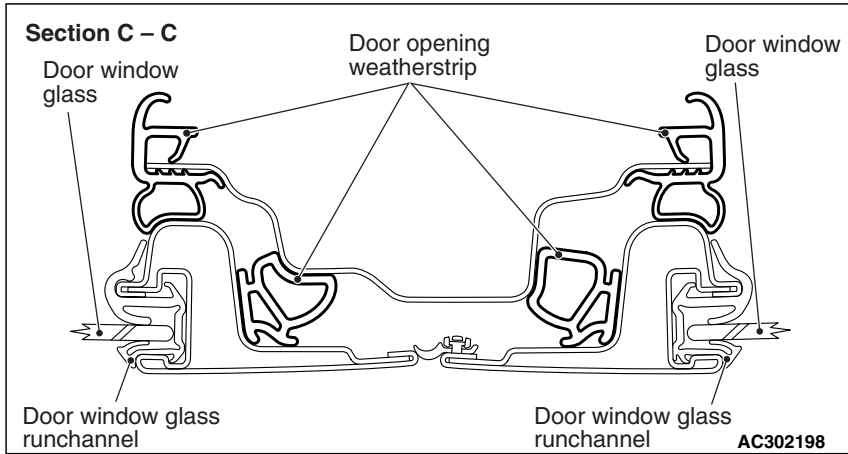
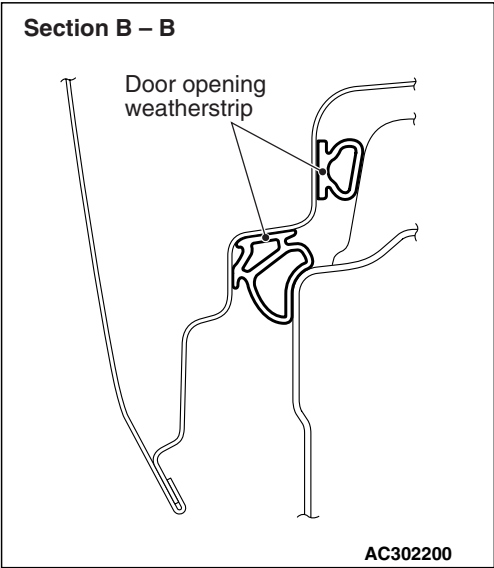
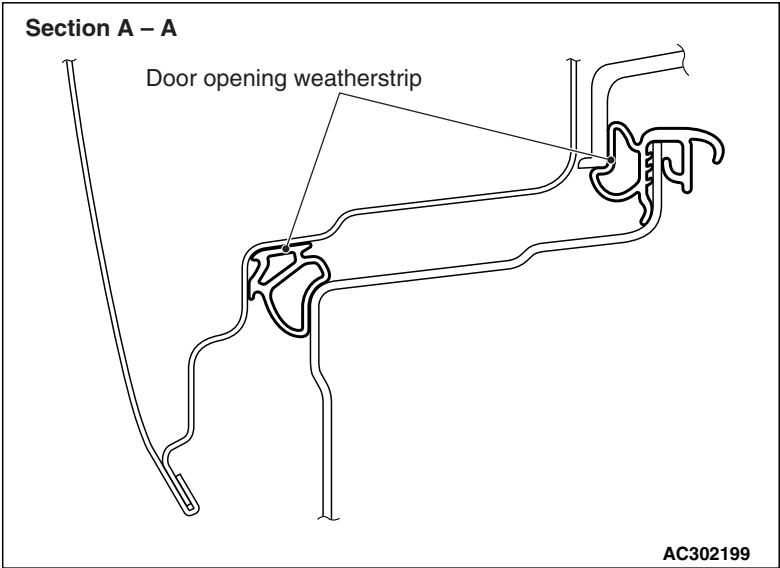
M2420020000085

Double weather strips have been installed along the perimeter of the door, improving sound-proof and water-proof performance.

CONSTRUCTION DIAGRAM



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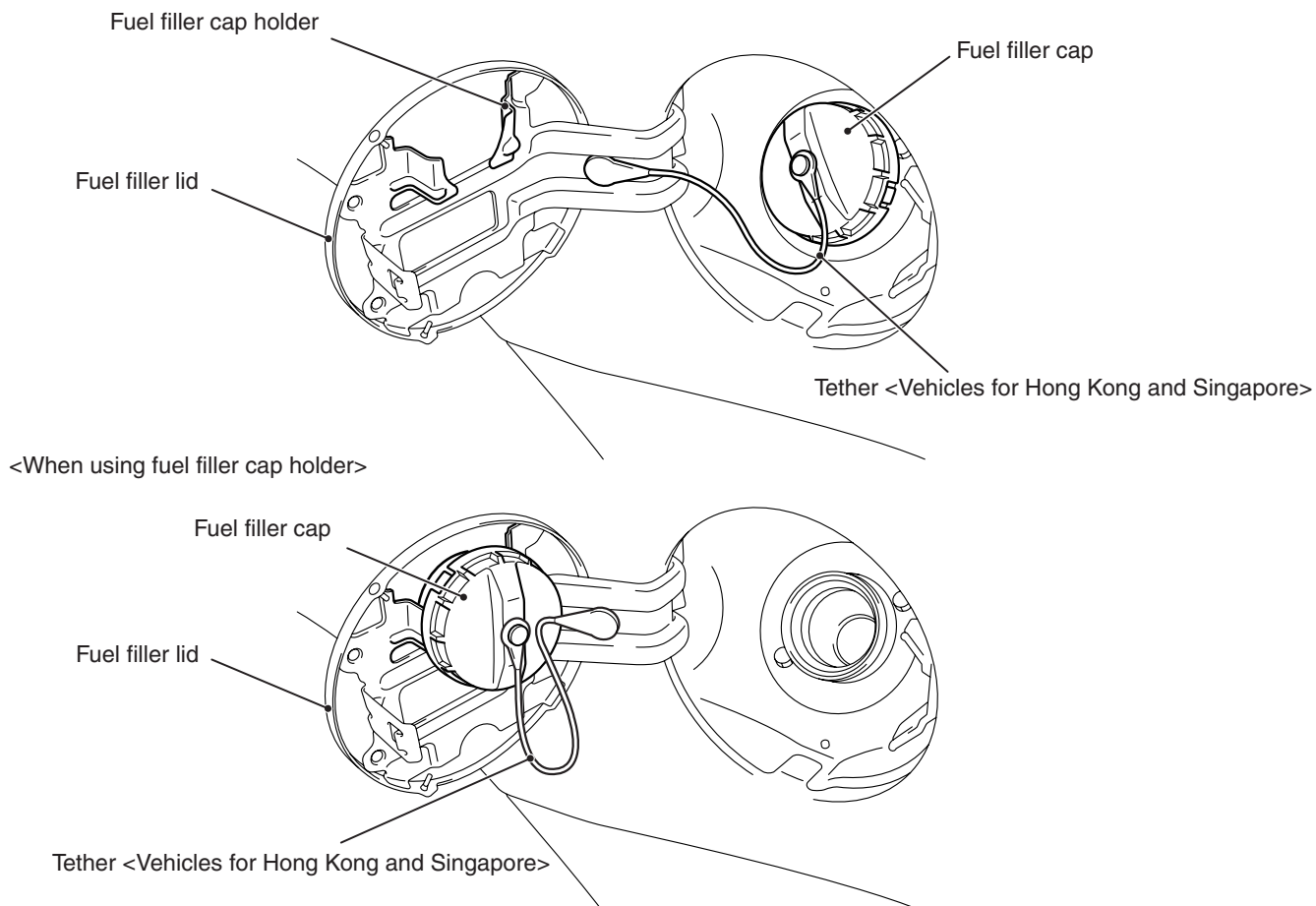


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FUEL LID

M2420014000105

Fuel filler cap holder has been installed to the fuel lid.
Using a fuel filler cap holder during refueling prevents a fuel filler cap from being left behind.



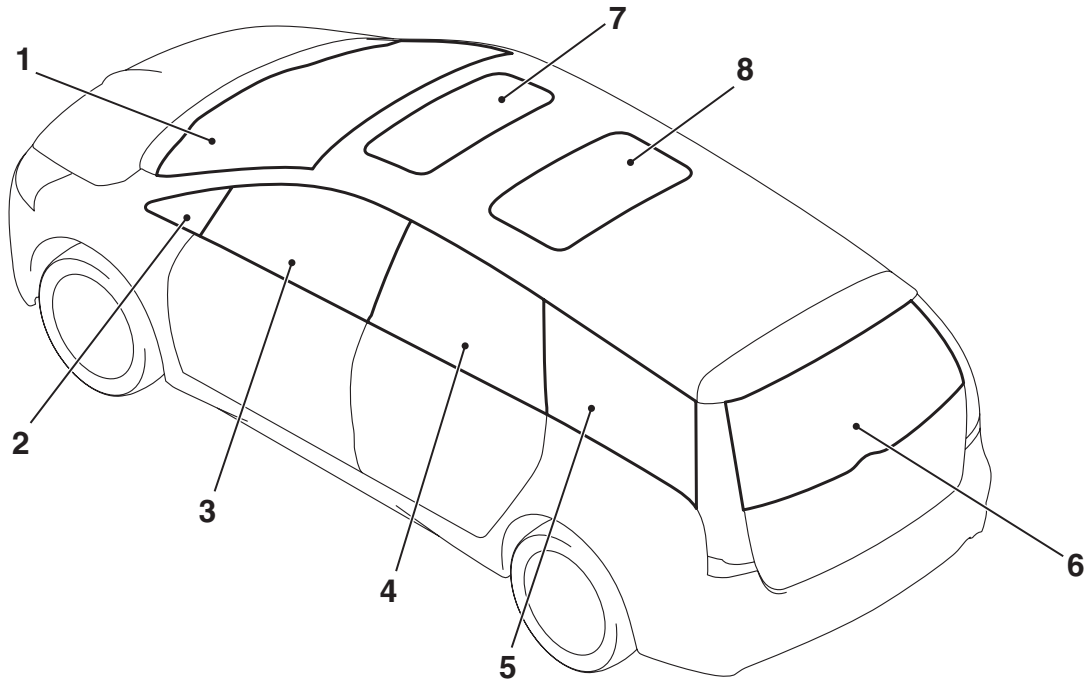
AC313339AC

WINDOW GLASS

M2420015000584

- The windshield is laminated glass and the other glass is made of reinforced glass.
- Privacy glasses for rear door window glass, quarter window glass, and tailgate window glass have been introduced as an option. <Vehicles for Hong Kong, Singapore, Australia and New Zealand>

**VISIBLE LAMP PERMEATION RATE FOR
WINDOW GLASS**



AC301010 AC

No.	Name	Type	Thick ness (mm)	Colour	Visible light permeation rate (%)
1	Windshield <Except vehicles for Hong Kong, Singapore, Australia and New Zealand>	Laminated glass	5.3	Green	78
	Windshield <Vehicles for Hong Kong, Singapore, Australia and New Zealand>			Green (with sunshade)	
2	Delta window glass	Tempered glass	3.1	Green	82
3	Front door window glass <Except vehicles for Hong Kong and Singapore>		3.5	Green	81
	Front door window glass <Vehicles for Hong Kong and Singapore>	Tempered glass (UV protection glass)			

No.	Name	Type	Thick ness (mm)	Colour	Visible light permeation rate (%)
4	Rear door window glass	Tempered glass	3.5	Green	81
	Rear door window glass (Option) <Vehicles for Hong Kong, Singapore, Australia and New Zealand>			Dark grey (privacy grass)	22
5	Quarter window glass		3.1	Green	82
	Quarter window glass (Option) <Vehicles for Hong Kong, Singapore, Australia and New Zealand>			Dark grey (privacy grass)	24
6	Tailgate window glass		3.1	Green	82
	Tailgate window glass (Option) <Vehicles for Hong Kong, Singapore, Australia and New Zealand and>			Dark grey (privacy grass)	25
7	Front sunroof lid glass		5.0	Dark grey (privacy grass)	14
8	Rear sunroof lid glass		5.0	Dark grey (privacy grass)	14

NOTE:

- The visible light permeation rate (%) is a reference value.

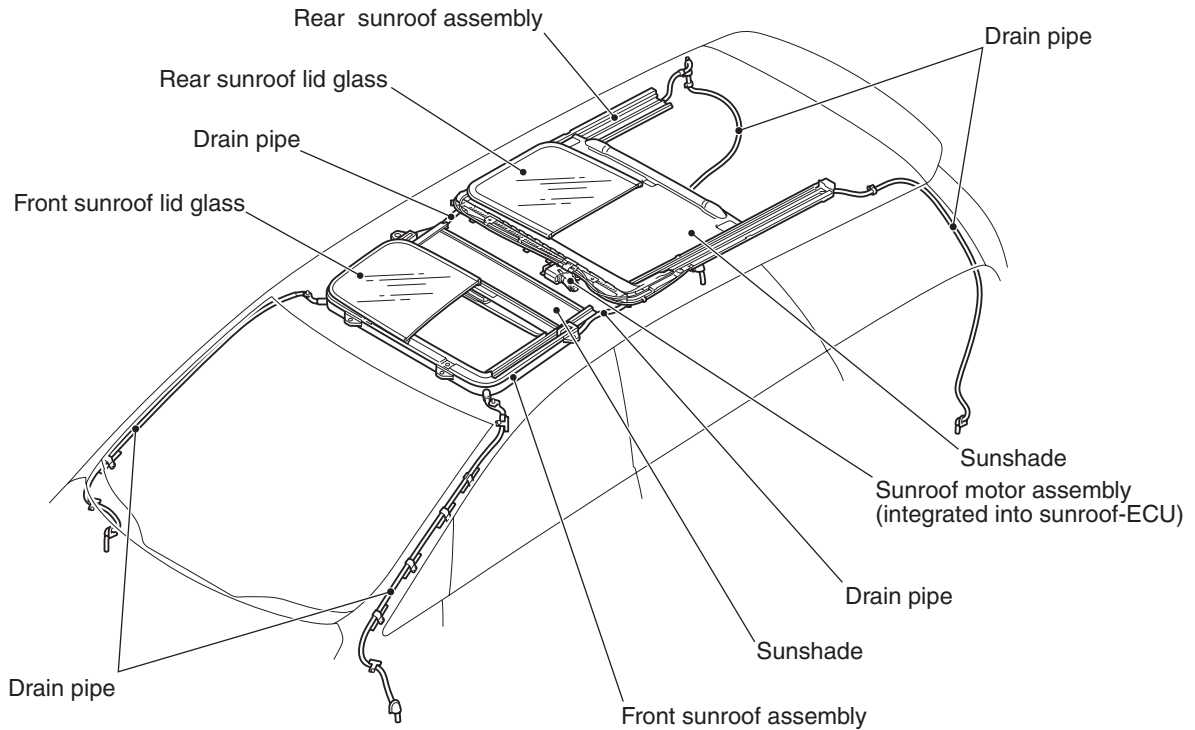
SUNROOF

M2420016000208

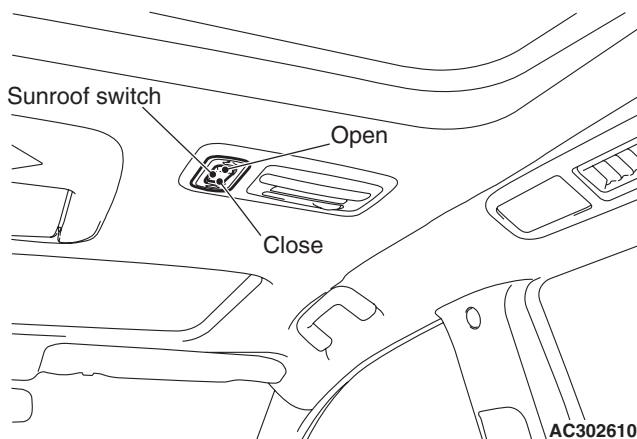
The manual tilt-up function for the front sunroof and the power slide mechanism for the rear sunroof have been introduced respectively. (Option) This sunroof features the following characteristics.

- Lightweight sunroofs have been adopted.
- Rear sunroof can be operated to slide open/close and stop, using an integrated switch. All operations are available at one touch.
- Anti-trapping function has been adopted for the rear sunroof. If the sunroof lid glass is obstructed by any external force during slide-closing operation, the sunroof lid glass reverses, and then stops.
- The rear sunroof can be locked by turning ON the driver's side window lock switch (sunroof lock switch).
- The rear sunroof timer function is adopted.<Vehicles for Hong Kong and Singapore>

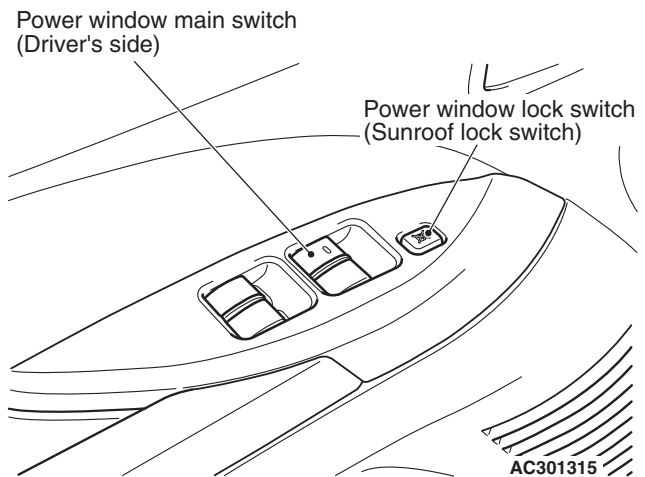
CONSTRUCTION DIAGRAM



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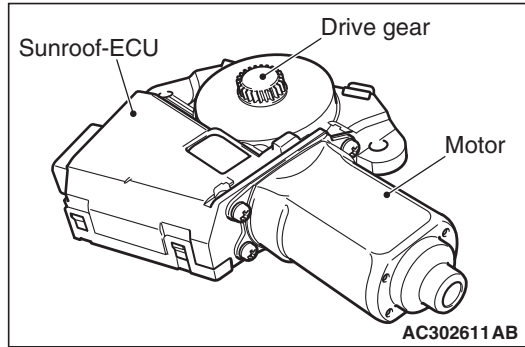
DESCRIPTION OF STRUCTURE AND OPERATION

REAR SUNROOF TIMER FUNCTION

The rear sunroof can be opened or closed by a timer function after the ignition switch is turned OFF. (During the timer operation, if the driver's door is opened, the time is extended by 30 seconds from the moment. However, the timer is expired when the driver's door is closed during the extended time). Using a customisation feature*, timer delay can be changed to no delay, 30 seconds, 3 minutes, or 10 minutes. The initial setting at factory is 30 seconds.

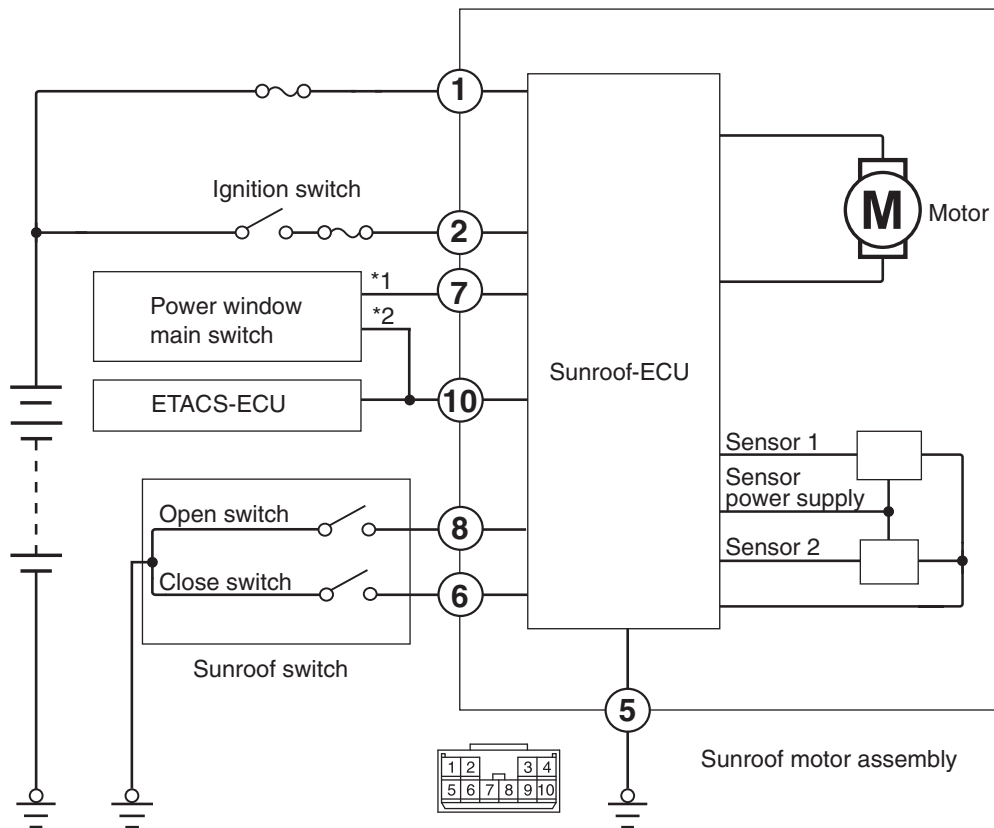
NOTE: *:Using a customisation feature, the rear sunroof timer delay can be changed. Refer to GROUP 54B, Customise Function [P.54B-40](#).

SUNROOF MOTOR ASSEMBLY



There is sunroof motor assembled on the front-side of the housing and the structure consists of the motor unit, drive gear and sunroof-ECU.

SUNROOF-ECU



NOTE

*1: Except vehicles for Hong Kong and Singapore

*2: Vehicles for Hong Kong and Singapore

The sunroof-ECU incorporates a microcomputer and controls the motor operations according to the sunroof switch signal and ETACS signal state.

AC313774AB