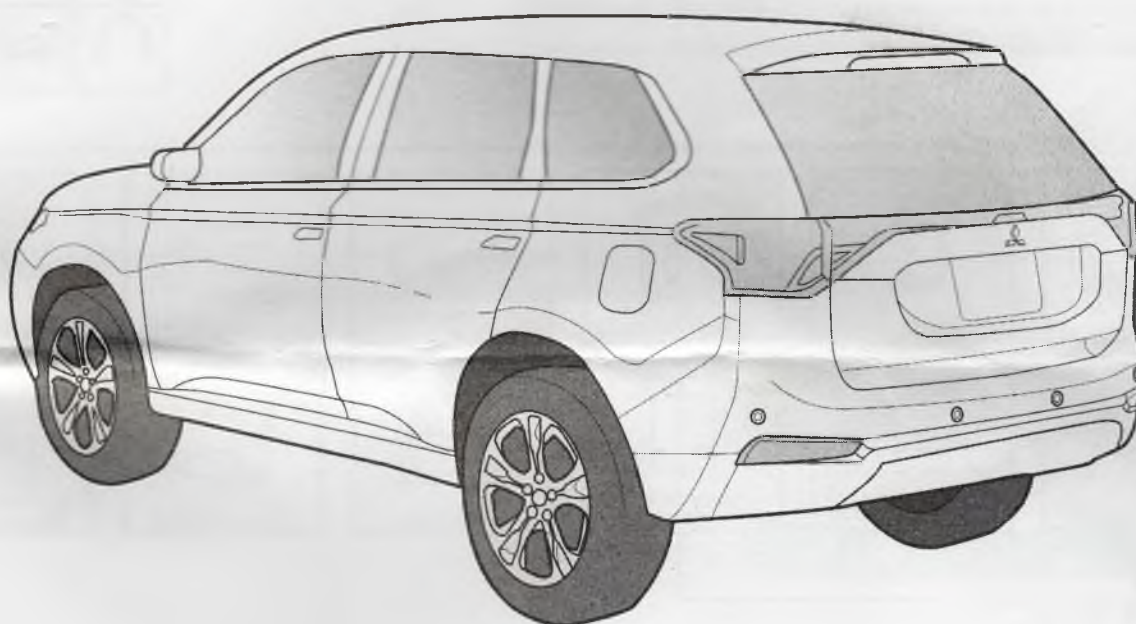




OUTLANDER

Kit Part No: MZ350216ZZ



Reverse Parking Assist Fitting Instructions

– General Notes

- Read through the fitting instructions before installation of accessory.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- It is always recommended that this accessory is fitted by a qualified Mitsubishi Technician.
- Safely store and protect any removed vehicle components.
- Ensure all bare metal surfaces are protected using Automotive Bare Metal Primer and touch-up paint.
- Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.

– Safety Notes

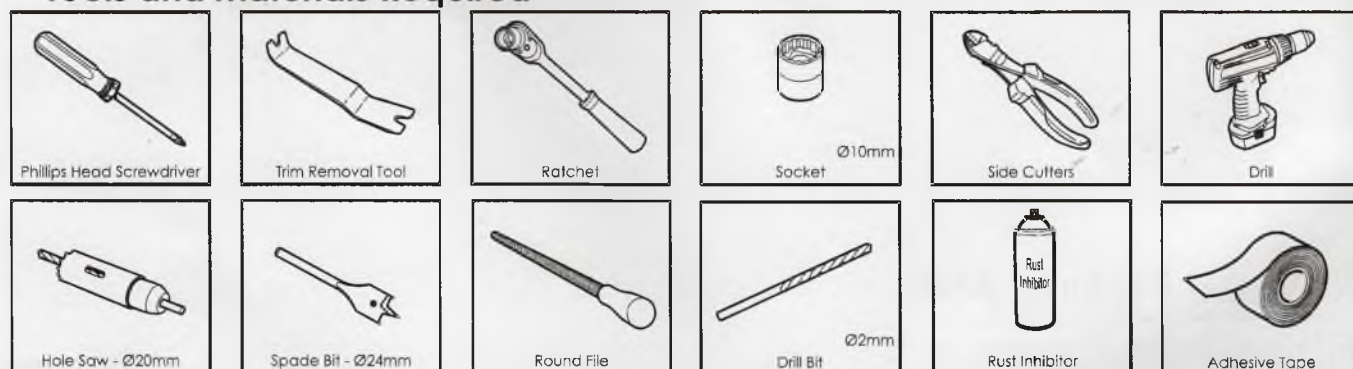
- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.



– Parts Supplied



– Tools and Materials Required



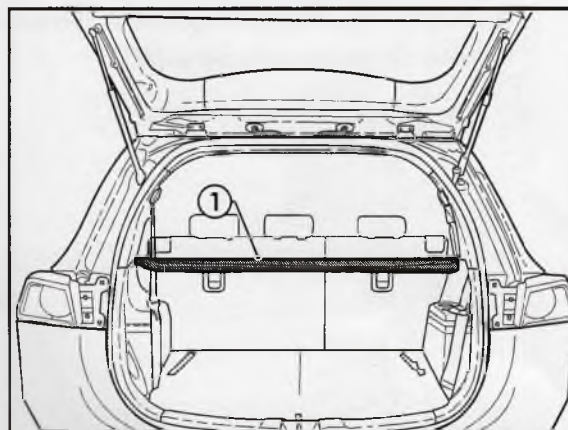
– Step 1

Important



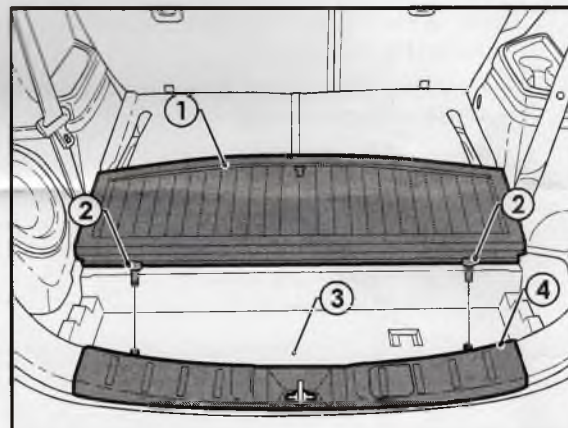
Always refer to the vehicle's Workshop Manual when removing vehicle components.

- Note down all clock and radio settings.
- In the engine bay, disconnect the negative battery terminal.
- Inside the luggage compartment, remove the parcel shelf (1).



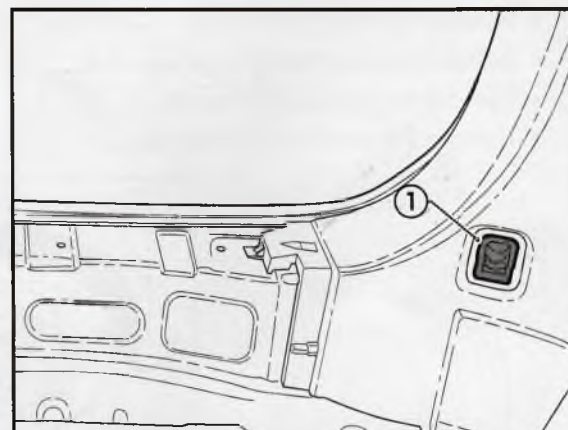
– Step 2

- On the rear of the luggage compartment, open the rear storage box compartment cover (1) and remove the two fasteners (2).
- Remove the storage box (3) by pulling in an upwards direction.
- Remove the rear boot luggage compartment trim (4) by pulling in an upwards direction.



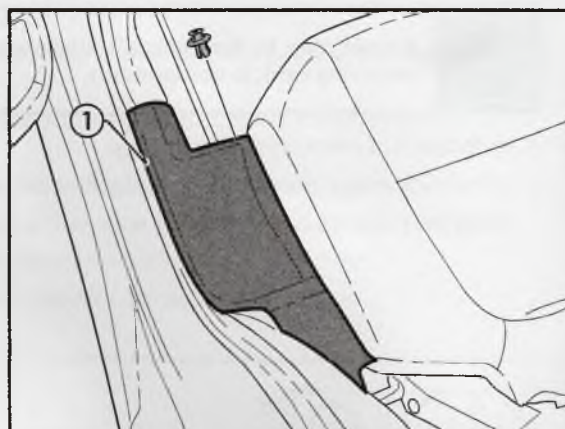
– Step 3

- On the LHS rear quarter of the luggage compartment, remove the cargo hook (1).



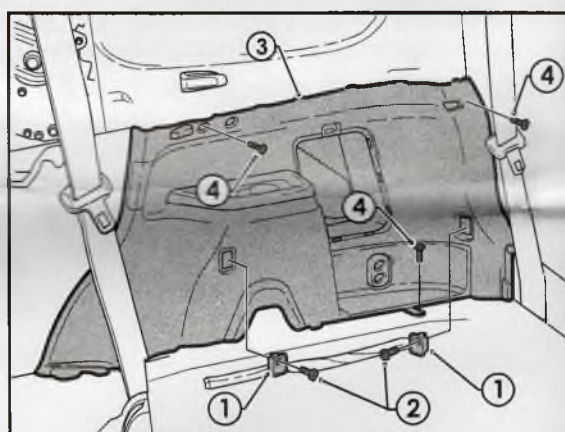
— Step 4 —

- On the rear LHS of the passenger's side, fold the seats forward.
- Remove the rear door trim panel **(1)**.



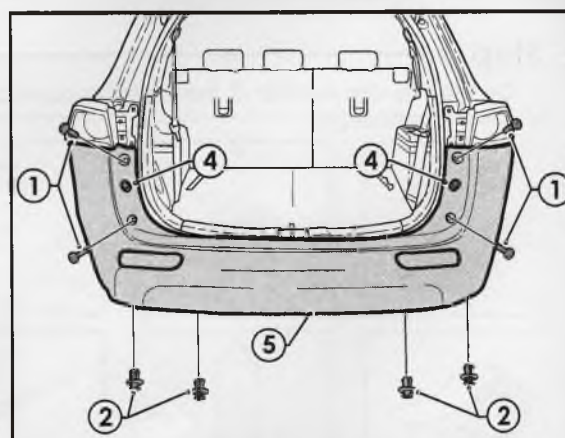
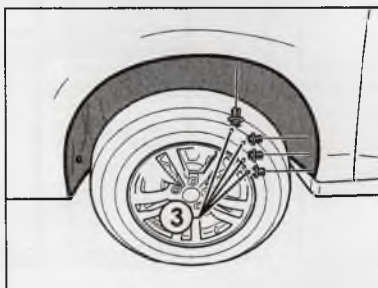
— Step 5 —

- Remove the LHS rear luggage compartment cargo hooks **(1)** and fasteners **(2)**.
- Remove the LHS luggage compartment trim **(3)** by first removing the Phillips head screws **(4)**.



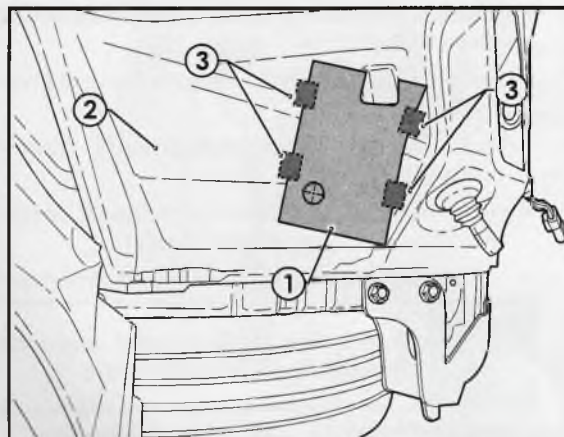
— Step 6 —

- On the rear of the vehicle, remove four fasteners **(1)** from the top inner bumper section.
- Remove four clips **(2)** from under the bumper.
- Remove four clips **(3)** in each wheel arch.
- Remove the two boot lid stops **(4)**.
- Remove the rear bumper fascia **(5)**.



– Step 7 –

- Cut out the grommet template (1) (Page 15) and adhere to the LHS rear quarter panel (2) using adhesive tape (3) as shown.
- Using a Ø20mm hole saw, drill through the LHS rear quarter panel (2) as indicated.
- Discard the template (1) after drilling.



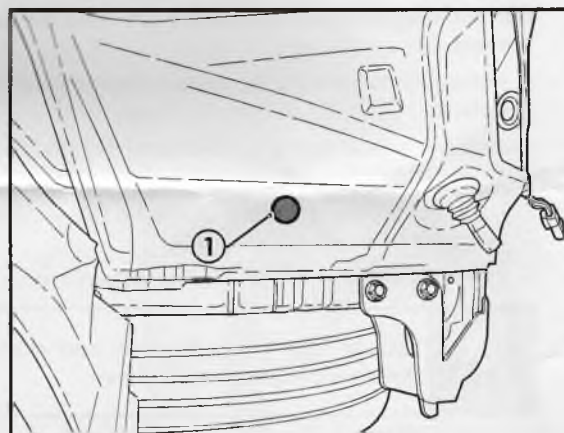
– Step 8 –

- Using a round file, file any rough or sharp edges from the previously drilled hole (1).
- Spray any bare metal with rust inhibitor.

Important

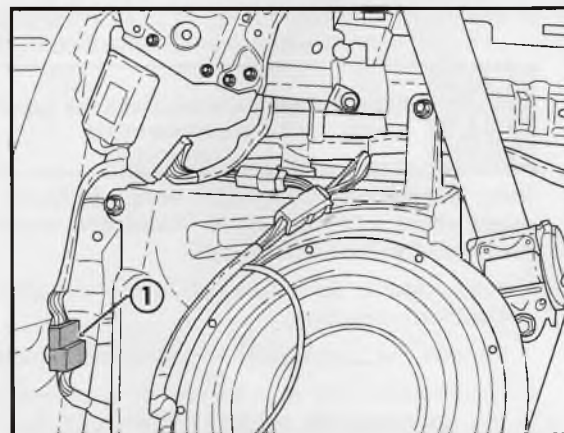


Allow the area sprayed with rust inhibitor to dry before continuing.



– Step 9 –

- On the LHS rear quarter luggage compartment, locate the vehicle male and female 18-Way connectors (1).
- Disconnect the male and female 18-Way connectors (1).



– Step 10 –

If vehicle is fitted with a Genuine Mitsubishi Towbar Harness, please proceed to Step 11.

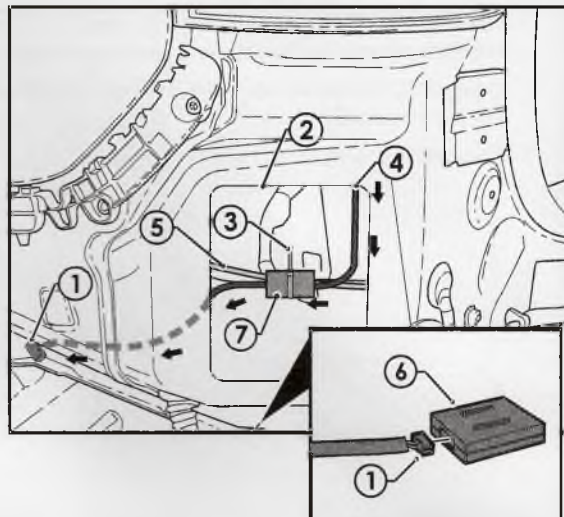
- From outside the vehicle, remove the vent from the exterior of the vehicle.
- Route the ECU harness connector (1) down through the vent cavity (2).
- Using the supplied 200mm Cable Tie (3), secure the ECU harness (4) to the existing vehicle harness (5).
- Connect the ECU (6) to its mating wiring harness connector (1).

Important



Ensure fuse (7) is located and retained at vehicle harness clip location as shown.

Proceed to Step 12.



– Step 11 –

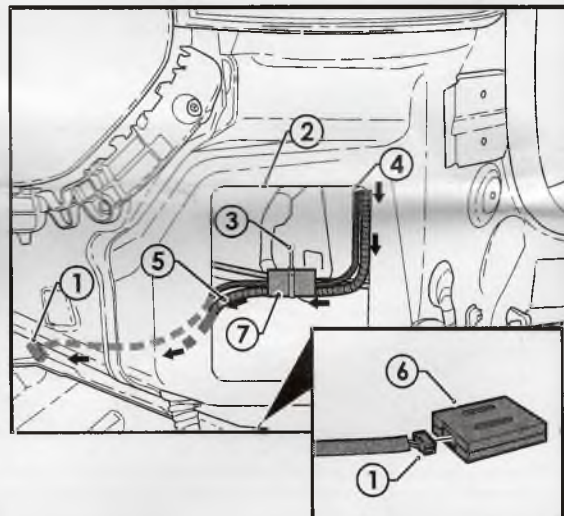
The following step is for vehicle models fitted with a Genuine Towbar Harness.

- From outside the vehicle, remove the vent from the exterior of the vehicle.
- Route the ECU harness connector (1) down through the vent cavity (2).
- Using the supplied 200mm Cable Tie (3), secure the ECU harness (4) to the Trailer Wire Harness (5).
- Connect the ECU (6) to its mating wiring harness connector (1).

Important



Ensure fuse (7) is located and retained at vehicle harness clip location as shown.



– Step 12 –

- Using the supplied Cleaning Pad, clean the area (1) on the inside of the sheet metal where the ECU (2) will be mounted.

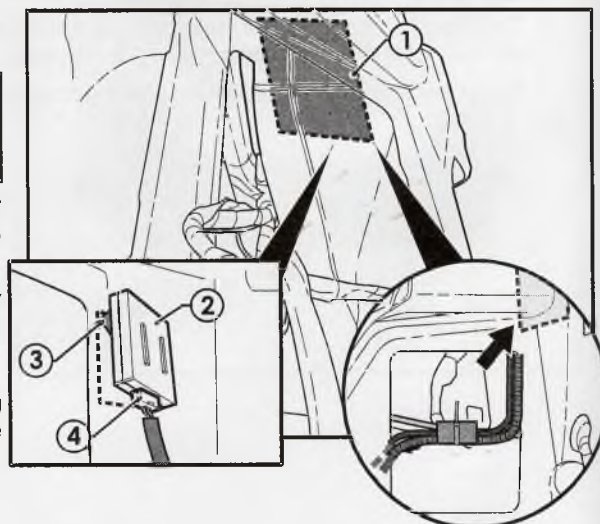
Important



Allow the area cleaned with the supplied cleaning pad to dry before proceeding.

Note: When mounting the ECU, ensure to clean the interior sheet metal panel, NOT the exterior panel and mount ECU as high as possible within the vehicle cavity.

- Apply double sided tape (3) to the ECU (2) on the previously cleaned flat surface.
- Remove the backing (3) from the adhesive tape on the ECU (2).
- Mount the ECU (2) onto the previously cleaned area (1), ensuring the connector (4) is facing downwards on the inside of the vehicle.



– Step 13

If vehicle is fitted with a Genuine Mitsubishi Towbar Harness, please proceed to Step 14.

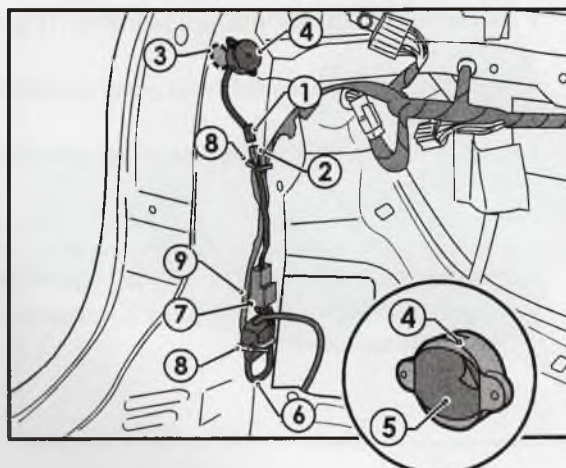
- On the upper rear quarter panel, on the LHS of the luggage compartment, connect the 2-way buzzer connector (1) to its mating connector (2).
- Using the supplied Cleaning Pad, clean the area (3) where the buzzer (4) will be mounted.

Important



Allow the area cleaned with the supplied cleaning pad to dry before proceeding.

- Remove the backing (5) from the adhesive tape on the back of the buzzer (4) and mount the buzzer (4) onto the previously cleaned area (3).
- Patch the RPA Harness 18-way connectors (6) in between the vehicle harness 18-way connector (7).
- Using the supplied 200 mm Cable Ties (8), secure the RPA harness (9) to the existing vehicle harness.



Proceed to step 16.

– Step 14

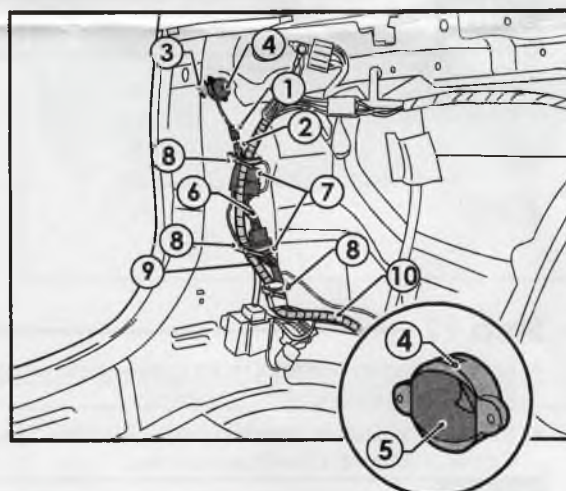
- On the upper rear quarter panel, on the LHS of the luggage compartment, connect the 2-way buzzer connector (1) to its mating connector (2).
- Using the supplied Cleaning Pad, clean the area (3) where the buzzer (4) will be mounted.

Important



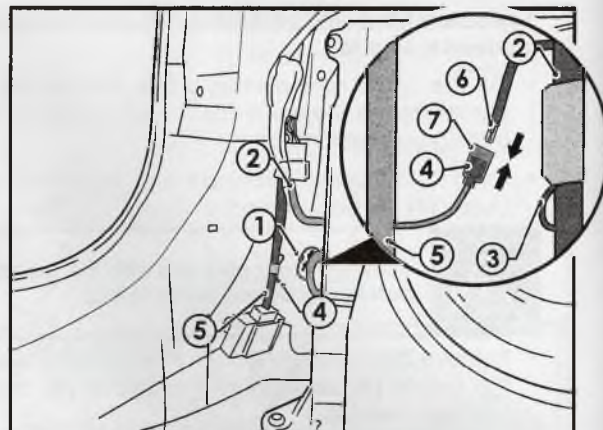
Allow the area cleaned with the supplied cleaning pad to dry before proceeding.

- Remove the backing (5) from the adhesive tape on the back of the buzzer (4) and mount the buzzer (4) onto the previously cleaned area (3).
- Patch the RPA Harness 18-way connectors (6) in between the vehicle harness 18-way connectors (7).
- Using the supplied 200 mm Cable Ties (8), secure the RPA harness (9) to the Trailer Wiring Harness (10).



– Step 15 –

- Disconnect the trailer interrupt terminals **(1)** on the RPA harness **(2)**.
- Tape back female terminal and cover completely **(3)** to the RPA harness **(2)**.
- Locate the taped back female spade terminal **(4)** on the trailer harness **(5)**.
- Remove the tape securing the female spade terminal **(4)** and connect to the male terminal **(6)** on the RPA harness **(2)**, ensuring that the rubber insulator **(7)** covers female spade terminal **(4)**.
- Tie back any excess wire with supplied cable ties.



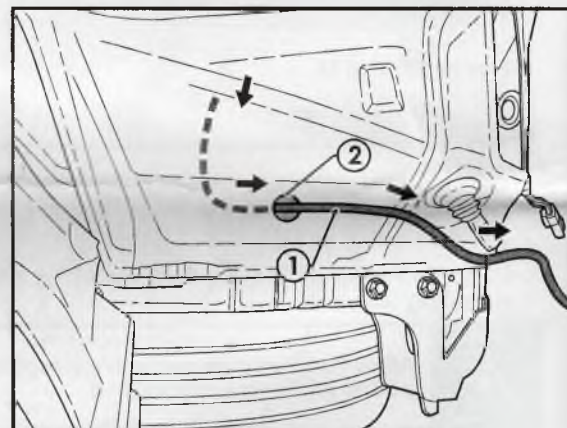
– Step 16 –

- On the LHS rear quarter panel, route the Sensor Harness **(1)** through the previously drilled grommet hole **(2)** and towards the rear of the vehicle.

Important



Ensure the grommet seal is seated correctly before proceeding.



– Step 17 –

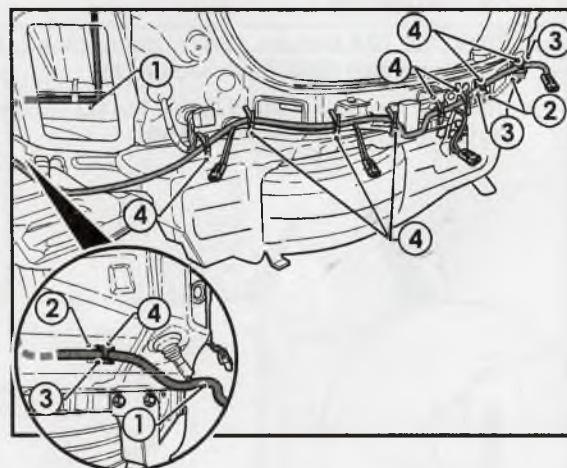
- Route the Sensor Harness **(1)** along the vehicle wiring towards the RHS, following the existing vehicle harness.
- Using the supplied cleaning pad, clean the areas **(2)** where the Cable Tie Mounts **(3)** will be mounted.

Important



Allow the area cleaned with the supplied cleaning pad to dry before proceeding.

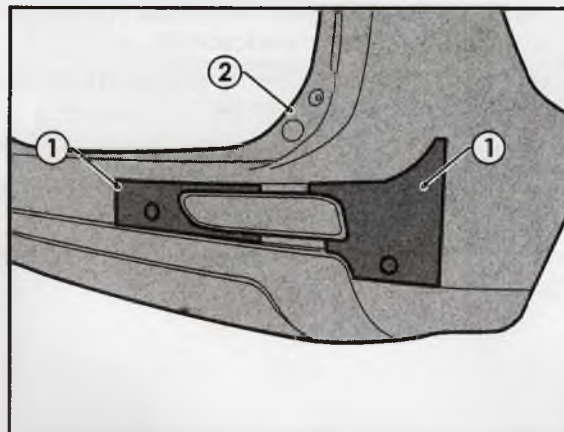
- Adhere the Cable Tie Mounts **(3)** to the previously cleaned areas **(2)** and using the supplied 200mm Cable Tie **(4)**, secure the Sensor Harness **(1)** to the Cable Tie Mount **(3)** and the vehicle harness.



– Step 18

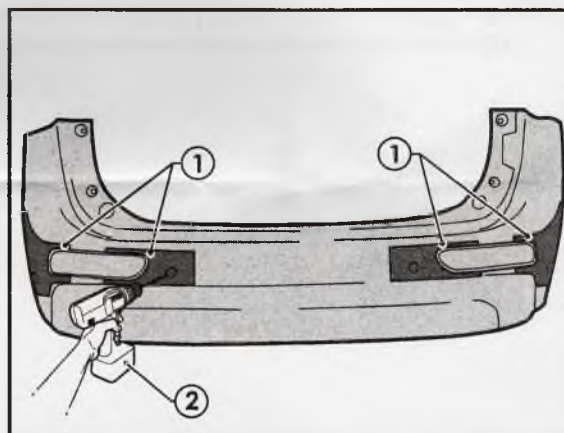
- Cut out and adhere the templates (Pages 16-18) **(1)** onto the RHS of the rear bumper **(2)** as shown.

Repeat for the LHS.



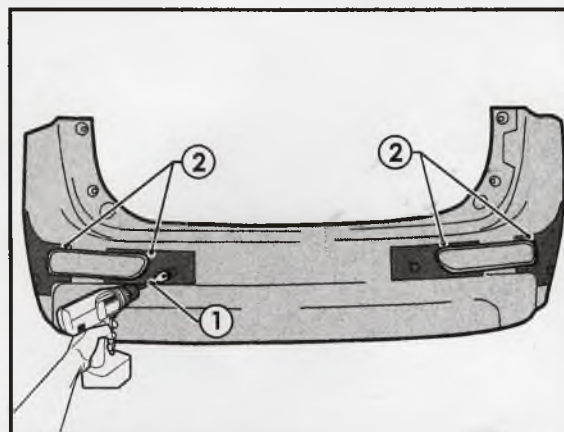
– Step 19

- Drill pilot holes through the templates **(1)** (Pages 16-18) using a Ø2mm drill bit **(2)**.



– Step 20

- Using a Ø24mm spade bit **(1)**, drill out the centre pilot holes on the templates **(2)**.
- Discard the templates **(2)** after drilling.



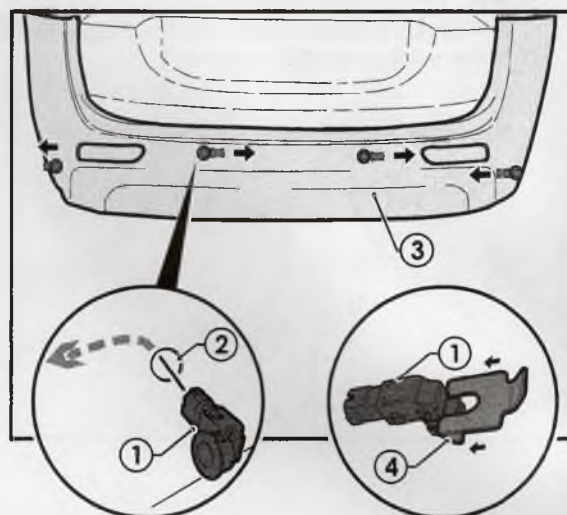
– Step 21 –

- Insert the Sensor Head Assemblies (1) into the previously drilled holes (2) on the bumper fascia (3).
- Secure the Sensor Head Assemblies (1) to the bumper fascia (3) with the supplied C-Clips (4).

Important

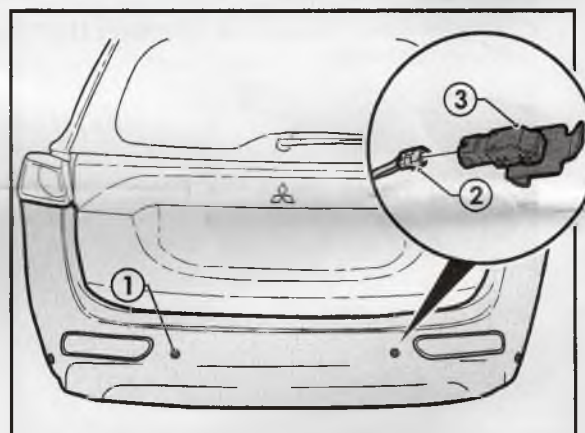


Using the palm of your hand only, carefully push the sensor head assemblies into place.



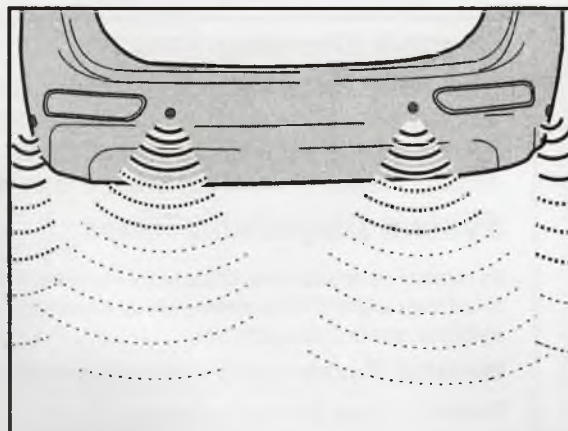
– Step 22 –

- Refit the rear bumper fascia (1) and connect the Sensor Harness (2) to its mating Sensor Head Assemblies (3) at the same time.



— Step 23 —

- In the luggage compartment, secure all harnesses to the vehicle wiring using the supplied Cable Ties.
- In the engine bay, reconnect the negative battery terminal.
- Test the Reverse Parking Assist System for correct operation as follows:
 - Start the vehicle.
 - Select the Reverse gear.
 - Reverse slowly towards a large flat object.
 - Each sensor has 3 stages of detection.
- Refer to the RPA Owner's Manual for further information and trouble shooting.
- Turn the ignition to the 'OFF' position after testing.



Important



Secure all harnesses to the vehicle using cable ties. Refit all removed parts and secure all fasteners to the Service Manual torque specifications.

Important



Reprogram all radio stations and clock settings by referring to the vehicle's Owner Manual.



Please place the Fitting Instructions and Owner's Manual in the glove box after installation is completed.



– Trouble Shooting –

Trouble Shooting

The details below will help determine whether your system has a malfunction. If the system fails to operate after you have completed all of the required actions, you will need to consult the Mitsubishi Motors Dealer from which the unit was purchased or installed.

System Diagnostic Tones

In normal operation the Mitsubishi Reverse Park Assist System will emit one beep when the reverse gear is selected. The following "diagnostic tones" indicate abnormal operation.

Warning Buzzer continuously sounds two beeps.

Reason: One sensor is faulty.

Solution: - Clean sensors.

- Replace or reinstall sensor (Consult your installer).

Warning Buzzer continuously sounds three beeps.

Reason: Two or more sensors are faulty.

Solution: - Clean sensors.

- Replace or reinstall sensors (Consult your installer).

Warning Buzzer continuously sounds four beeps.

Reason: Three or more sensors are faulty.

Solution: - Clean sensors.

- Replace or reinstall sensors (Consult your installer).

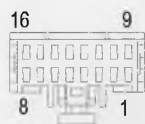
– QC Final Check List –

QC FINAL CHECK LIST (ELECTRICAL FUNCTION & COMPONENT FIT)

- | | |
|--|--------------------------|
| 1. Audio / Navi Functions properly (GPS, and Hazard Switch / SRS)..... | <input type="checkbox"/> |
| 2. Combination Meter operates properly..... | <input type="checkbox"/> |
| 3. Ignition Push Start Switch (If equipped)..... | <input type="checkbox"/> |
| 4. Info. Button operates properly..... | <input type="checkbox"/> |
| 5. Traction Control operates..... | <input type="checkbox"/> |
| 6. Headlight Levelling Switch/Controls..... | <input type="checkbox"/> |
| 7. Fog Lights (If equipped)..... | <input type="checkbox"/> |
| 8. Daytime Running Lights (If equipped)..... | <input type="checkbox"/> |
| 9. Check re-installed interior trim fit properly(No gaps, scratches and damage)..... | <input type="checkbox"/> |
| 10. Exterior (Front Fascia, Wheel Well Liner, etc.)..... | <input type="checkbox"/> |
| 11. Interior (Scuff Plate, Kick Panel, Knee Bolster, Meter Trim, Steering Column, Audio Trim)..... | <input type="checkbox"/> |

SCHEMATIC - CONNECTOR VIEW IS FRONT FACING (TERMINAL SIDE)

TERM	COLOUR	FUNCTION
1	RED	REVERSE +VE
2	BROWN	SENSOR CL
3	GREEN	SENSOR CR
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	BLUE	SENSOR L
10	RED/WHITE	SENSOR R
11	WHITE	BUZZER -VE
12	ORANGE	BUZZER +VE
13	-	-
14	GREY	SENSOR GND
15	BLACK	POWER GND
16	-	-



**CONTROL
MODULE**



BUZZER

- (1) ORANGE - BUZZER +VE
(2) WHITE - BUZZER -VE

BACK UP LAMP

CUT-OUT

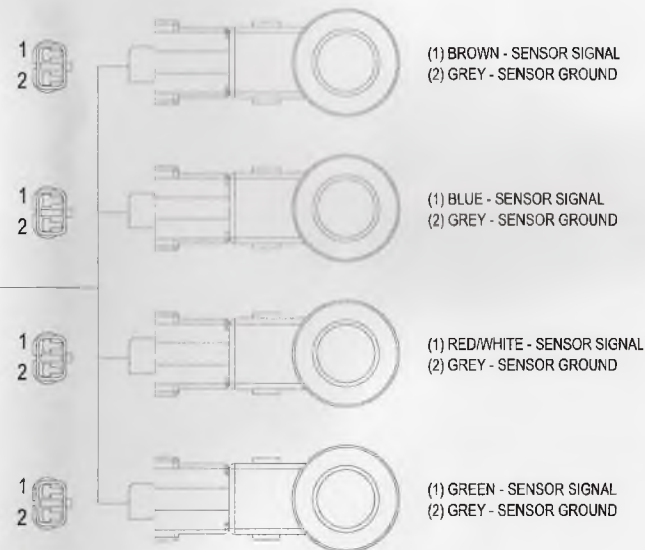
- RED - REVERSE +VE
RED - REVERSE +VE

**FUSE
2A**

REVERSE SIGNAL PATCH

- (8) RED/BLACK - REVERSE +VE
(9) BLACK - GROUND
(1-7,10-18) GREY, GREY/BLACK - PATCH WIRES

SENSORS



— Schematic —



OUTLANDER



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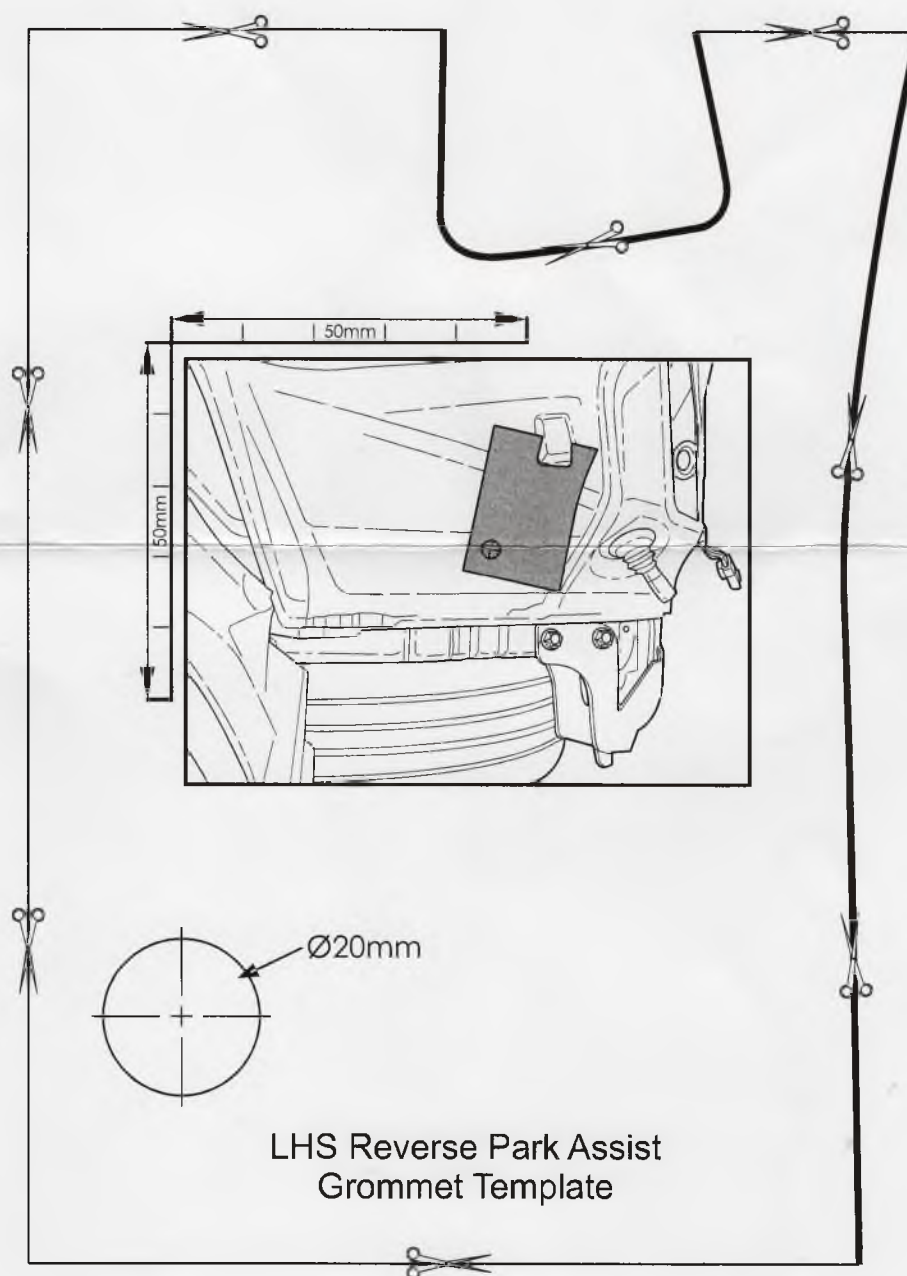
LHS Reverse Park Assist Grommet Template

– Templates

Important



Always confirm the length of the 50mm scale markers before drilling.



Sheet size: A4
Scale 1:1
Kit Part No: MZ350216ZZ