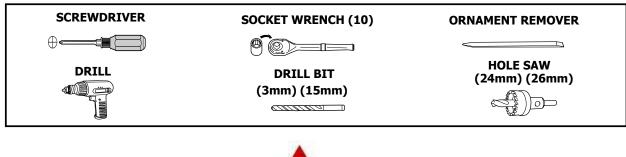
INSTALLATION MANUAL PARKING SENSOR SYSTEM

Thank you for purchasing MITSUBISHI genuine * PARKING SENSOR SYSTEM *. This manual explains the procedure for installing * PARKING SENSOR SYSTEM *. Read this manual thoroughly before installation to ensure proper work.

PART NUMBER	APPLICABLE MODEL
MZ380466EX	Outlander Sport

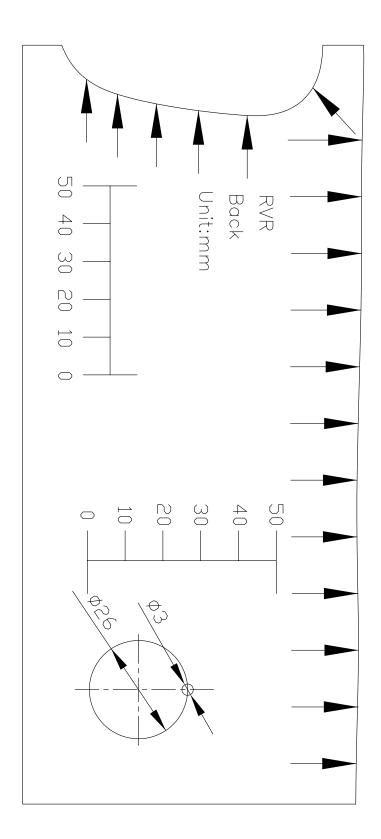
COMPONENT PARTS

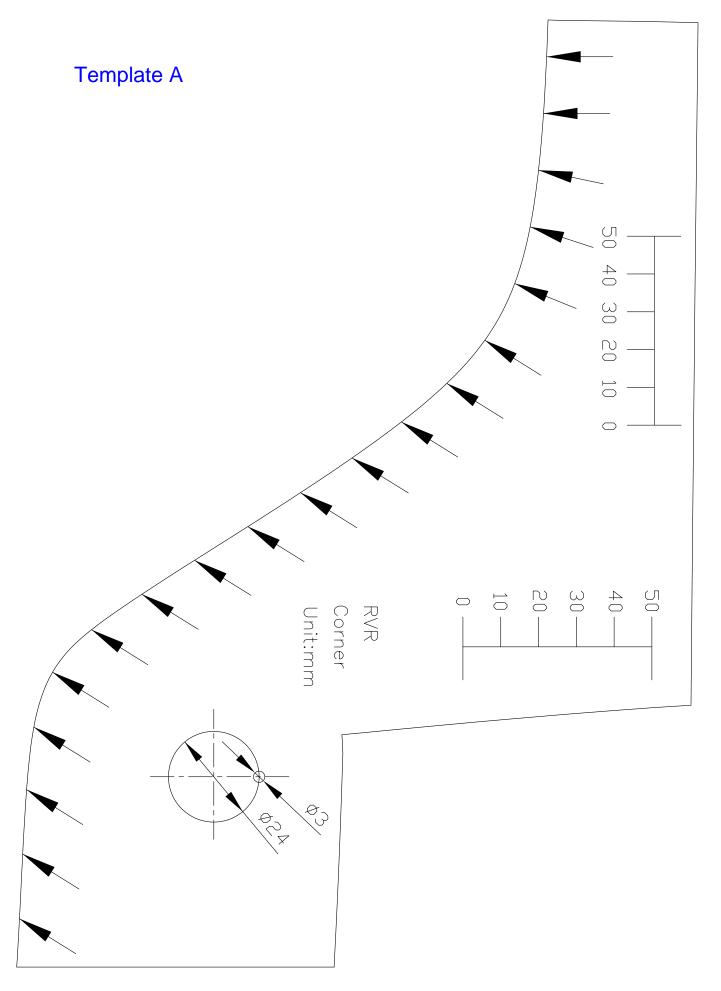






Template B





PRECAUTIONS

Disconnect the negative pole cable from the battery before installation in order to avoid possible electric shock or bodily injury

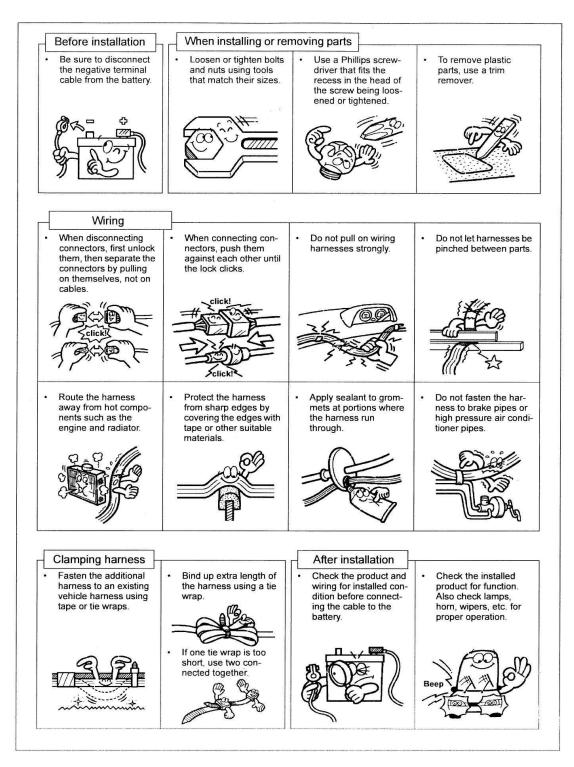


- 1. The parking sensor system detects the distance between a vehicle and obstacles nearby when the vehicle moves backward and warns the driver of the distance with buzzer sound. It is designed as a tool to enhance a driver's comfort, but is not intended to relieve the driver's safety responsibility. Please remember to take all usual care even when using this system.
- 2. As there is time lag between detection and real warning, please park your car at the speed of no more than 10 km/h.
- 3. You will hear beep sound when the vehicle starts to move backward. Please put on the brake softly when the warning alert starts to beep continuously.
- 4. Please turn down the radio when using this system so that the warning alert can be heard well.
- 5. Please prevent the sensors from being knocked hard or washed by high-pressure spray guns to avoid damage.
- 6. Snow, mud, water drops or other substances on the sensors are likely to cause malfunction of the system. Please always keep the sensor surface clean.
- 7. Please note that there could be possible system failure under the following circumstances: > when the shape of an object to detect is pyramidal or acute
 - > when the system tries to detect an object which can easily absorb microwave (e.g. fabric, snow, etc)
- 8. Please note that there could be possible misdetection under the following circumstances: > when the vehicle moves on rugged, gravel, uphill and/or bushed roads
 - > when the level of the back of the vehicle is lower due to overload
 - > when the system is in the environment of 40KHz-noise from metal or high-pressure gas exhaust
 - > when other accessories are equipped inside the system's detection field
- 9. This system is suitable only for DC 12V vehicles.

Main

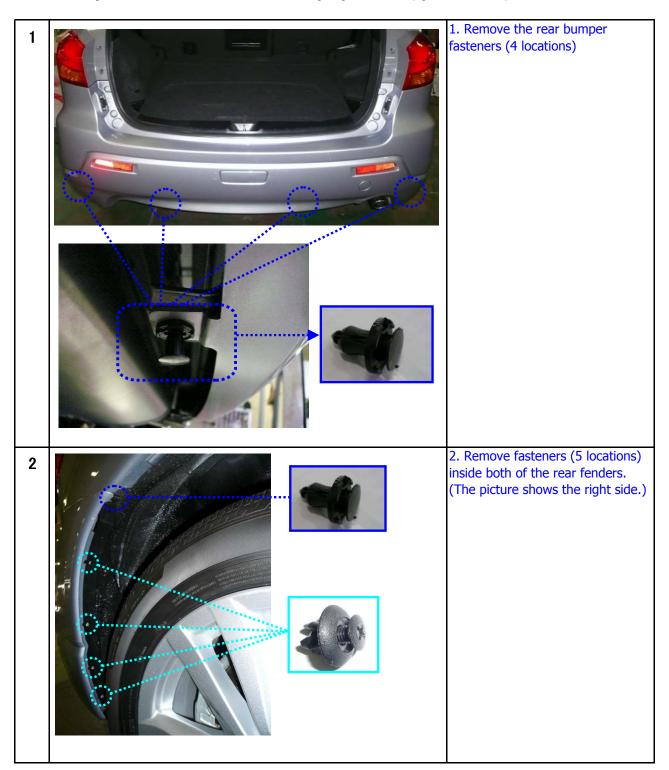
※ Before Installation:

Start and stop the engine to check if the power system functions properly, such as door locks and the power ignition system.

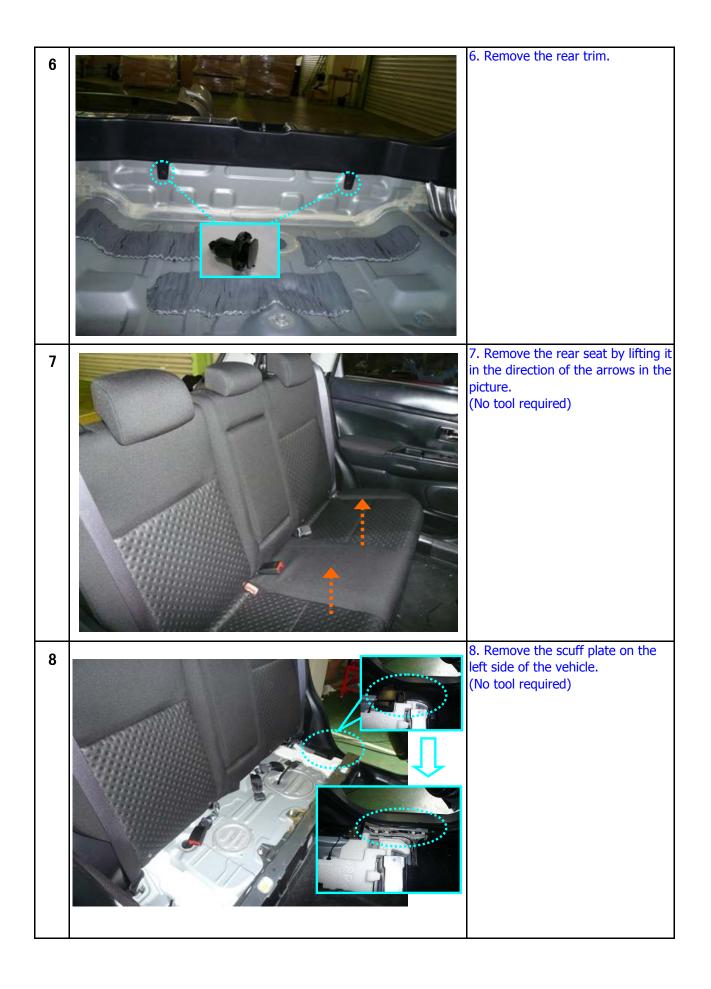


Instructions for Car Parts Removal and System

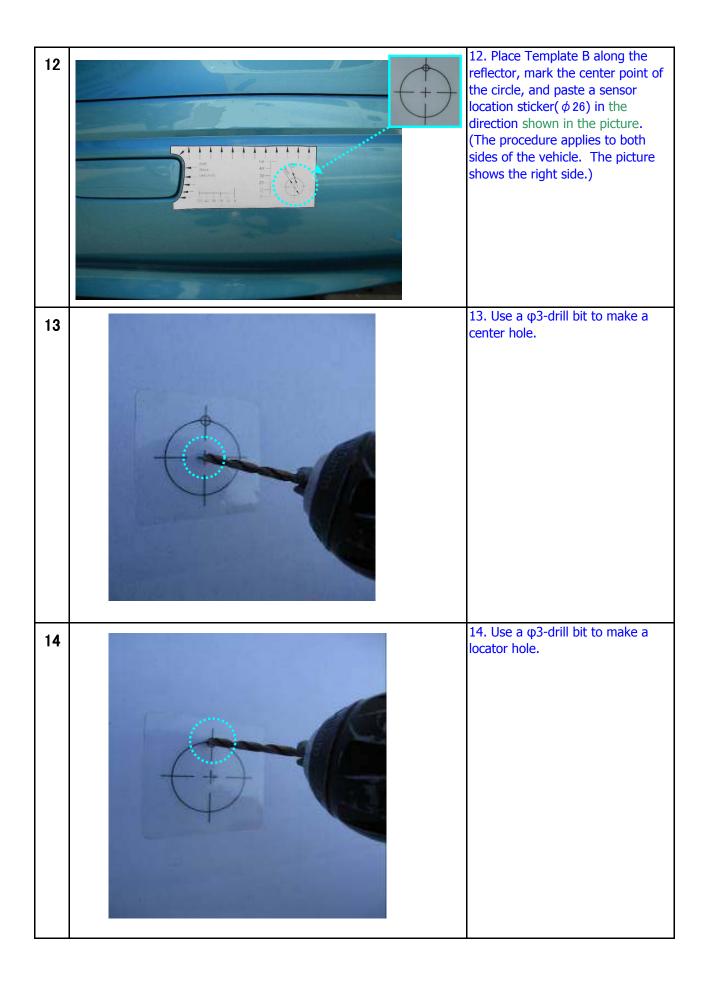
* Necessary tools for installation: General purpose tools, power drills, stabber



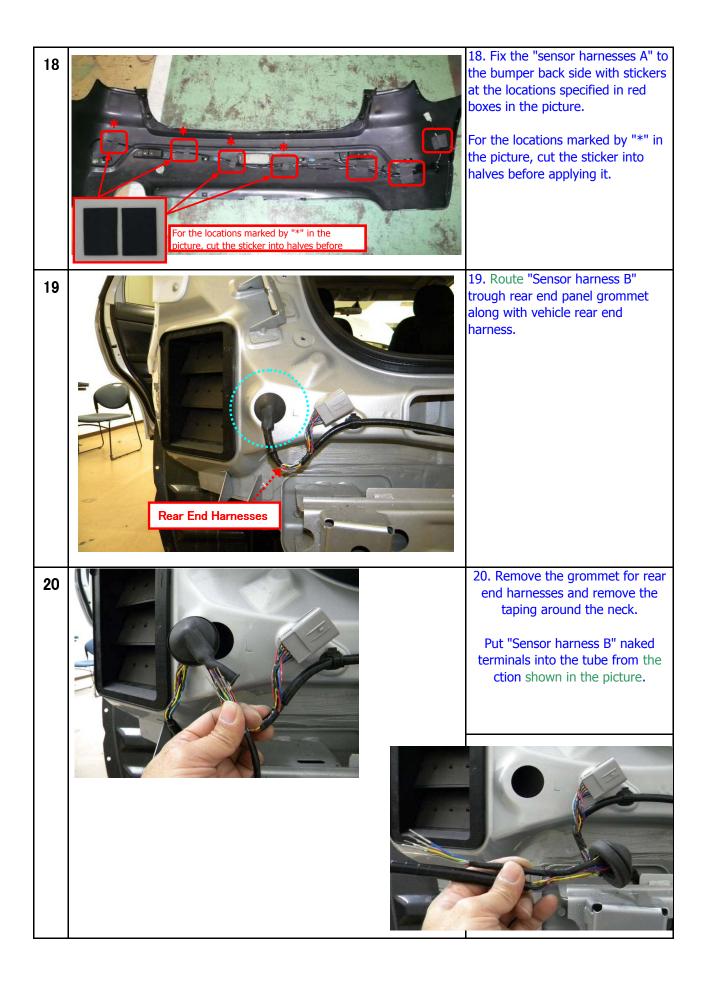
3	3. Remove the bolts fixing the rear bumper and the tailgate stopper from both sides.(The picture shows the right side.)
4	 Remove both of the rear combination lamps. (The picture shows the right side.)
5	5. Remove the luggage tray. (No tool required)

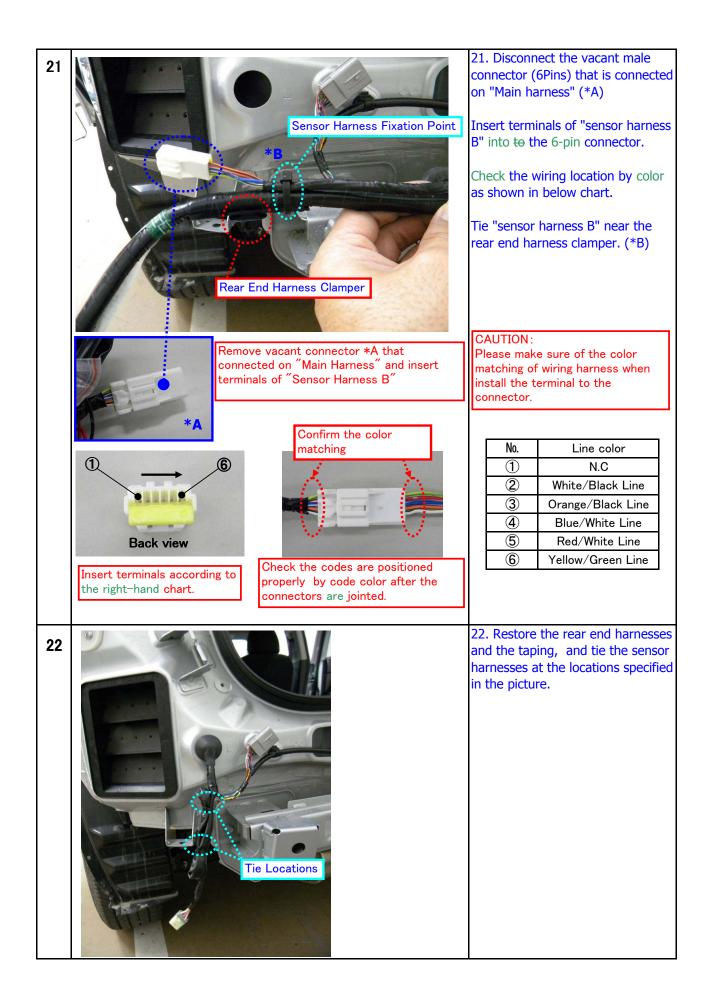


9	9. Remove the screws and fasteners from the locations specified in the picture.
10	10. Remove the trim panel on the left side.
11	11. Prepare Template A by cutting along the bold line. Place the template along the bumper line, mark the center point of the circle, and paste a sensor location sticker(ϕ 24) in the direction shown in the picture. (The procedure applies to both sides of the vehicle. The picture shows the right side.)

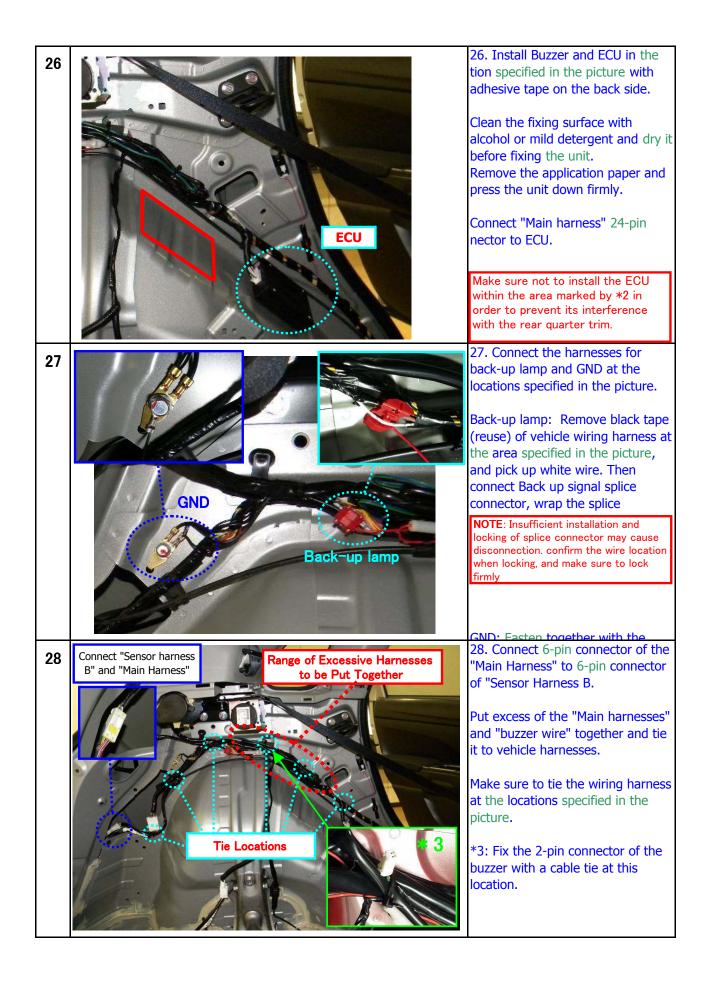


15	15. Drill holes.
	[Important] Use φ24 drill hole saw for two OUTER SIDE holes. Use φ26 drill hole saw for two INNER SIDE holes.
16	 16. Installation of sensors. 1. Insert the sensor into the to hole and locate tentatively. [Important] Sensors with yellow connector : Outer side Sensors with blue connector : Inner side 2. Adjust set prong into the φ3 hole that you have made in the previous procedure. 3. Put the hook from the back side of connector and check the firm fixing.
17	17. Install the sensors and "sensor harnesses A" as shown in the picture.

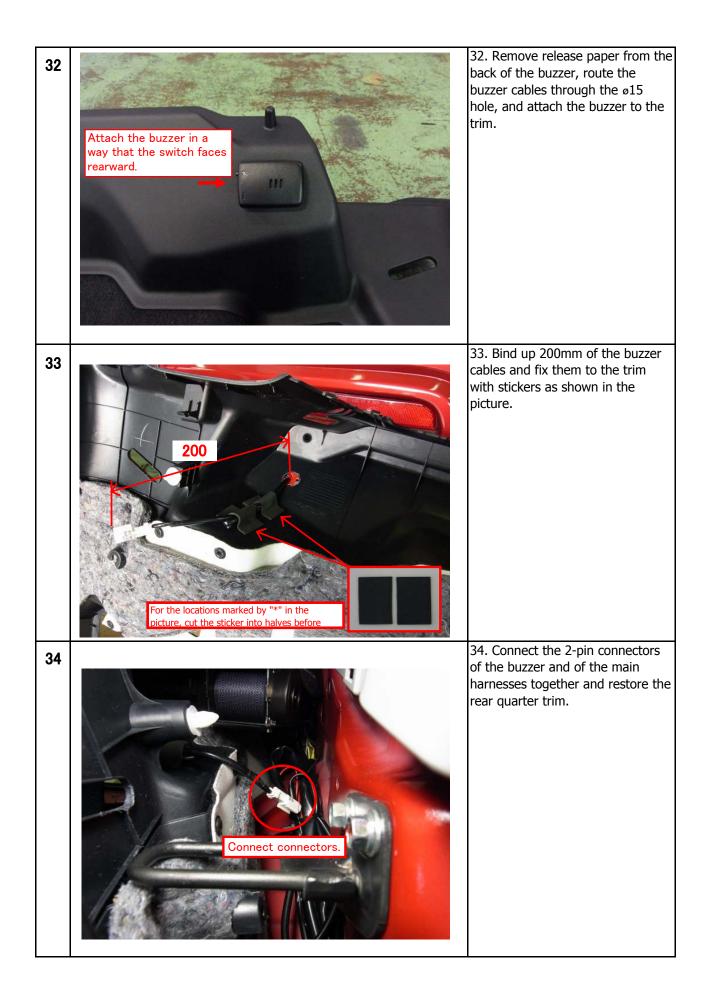




23	Sensor Harness Connector	23. When restoring the rear end harnesses, make sure that the sensor harness connector (*A of fig 21) is positioned as shown in the picture.
24		 24. For vehicles without rear end harnesses, make a small cross slit on the blindfold plug with knife and route the "Sensor harnesses B" through it. * 1: Water-proof treatment with
		sealant has to be applied to the plug after routing the harnesses through it.
25		25. Refer to the picture for the "Main Harness" routing inside the vehicle.



29	29. For vehicles without rear end harnesses, tie the main harnesses at the locations specified in the picture.
30	30. Connect the sensor harnesses and restore the bumper.
	31. Make a ø15 hole at the location specified in the picture on the rear quarter panel on the left side.



Items	Specification
Rated Voltage	DC 12.0V
Operation Temp	-20°C~70°C
Storage Temp	-30°C~80°C

Reminder:

After installing the sensor system, please confirm that the system functions properly. Temporarily reconnect the negative (-) cable to the battery to test. Please also confirm that the original electronic devices work properly before re-assembling the removed parts. Then:

Restore cargo side trim (LH), rear scuff plate (LH), rear seat cushion, rear trim, luggage tray, rear combination lamps, and fasten all bolts and fasteners of the rear bumper.

Reconnect the negative (-) cable to the battery.

Function inspection- Troubleshooting

Symptom	Possible Cause	Confirmation Method	Solution
When the gear is shifted to "R", the alert	The buzzer plug has not been inserted.	Confirm whether the buzzer plug is inserted.	Insert the buzzer plug correctly.
does not beep.	Tail light power wire has not been spliced correctly.	Check if reverse lights are on or that the thick white wire has been spliced.	Splice the thick white wire.
	The fuse to the ECU may have blown.	Check whether the fuse has been blown.	Replace the fuse with a new one.
	ECU is damaged.	Confirm whether the ECU is damaged.	Replace ECU with a new one.
When the gear is shifted to "R", the alert beeps twice, not once.	One or more of the sensors is not connected properly.	Confirm whether the sensors are properly connected.	Connect the plug of each sensor properly.
	One of the sensors may be damaged.	Confirm whether each sensor functions properly.	Replace any damaged sensor with a new one.
When the gear is shifted to "R", the alert beeps three times.	Two of the sensors are not connected properly or may be damaged.	Confirm whether the sensors are properly connected and whether each sensor functions properly.	Connect the plug of each sensor properly and replace any damaged sensors with a new one.
When the gear is shifted to "R", the alert beeps four times.	Three or more of the sensors are not connected properly or may be damaged.	Confirm whether the sensors are properly connected and whether each sensor functions properly.	Connect the plug of each sensor properly and replace any damaged sensors with a new one.
	The sensor's harness has not been connected to the ECU.	Confirm whether the harness has been connected properly.	Connect the plug of the harness to the ECU.

The gear is in "R" but the warning does not	One of the sensors is damaged.	Confirm whether each sensor functions	Replace any damaged sensor with a new one.
go off although there are objects behind the	uumageu.	properly.	sensor with a new one.
vehicle.	The objects are outside	Refer to the service	(The warning does not
	the range of detection.	manual for the range of	go off when objects are
		detection.	outside the detection area).
	ECU is damaged.	Confirm whether the	Replace ECU with a
		ECU is damaged.	new one.
The gear is in "R" and	The sensor surface is	Confirm whether the	Clean up the sensor
the warning goes off	covered with foreign	sensor surface is	surface and see if it
for a while although	materials such as mud,	covered with foreign	functions normally.
there is no object behind the vehicle.	water drops, etc.	materials.	
bennia the venicle.	One of the sensors is	Confirm whether each	Replace any damaged
	damaged.	sensor functions	sensor with a new one.
		properly.	
The gear is in "R", and	The sensors are not	Confirm whether the	Reinstall the sensors in
the warning goes off	installed in the proper	sensors are installed in	the proper position.
intermittently although there is no object	position.	the proper position.	
behind the vehicle.	The sensors have	Confirm the road	(Misdetection is
	detected harsh roads.	condition.	possible when the
			system detects harsh
			roads or small objects
			on the road.)
	The vehicles posture is	Confirm the vehicles	Misdetection may
	weighted heavily to	posture.	occur if the vehicle is
	one side.		heavily weighted in the
			rear or at the cusp of a
			steep incline. (Refer to
			service manual for
			figure.)