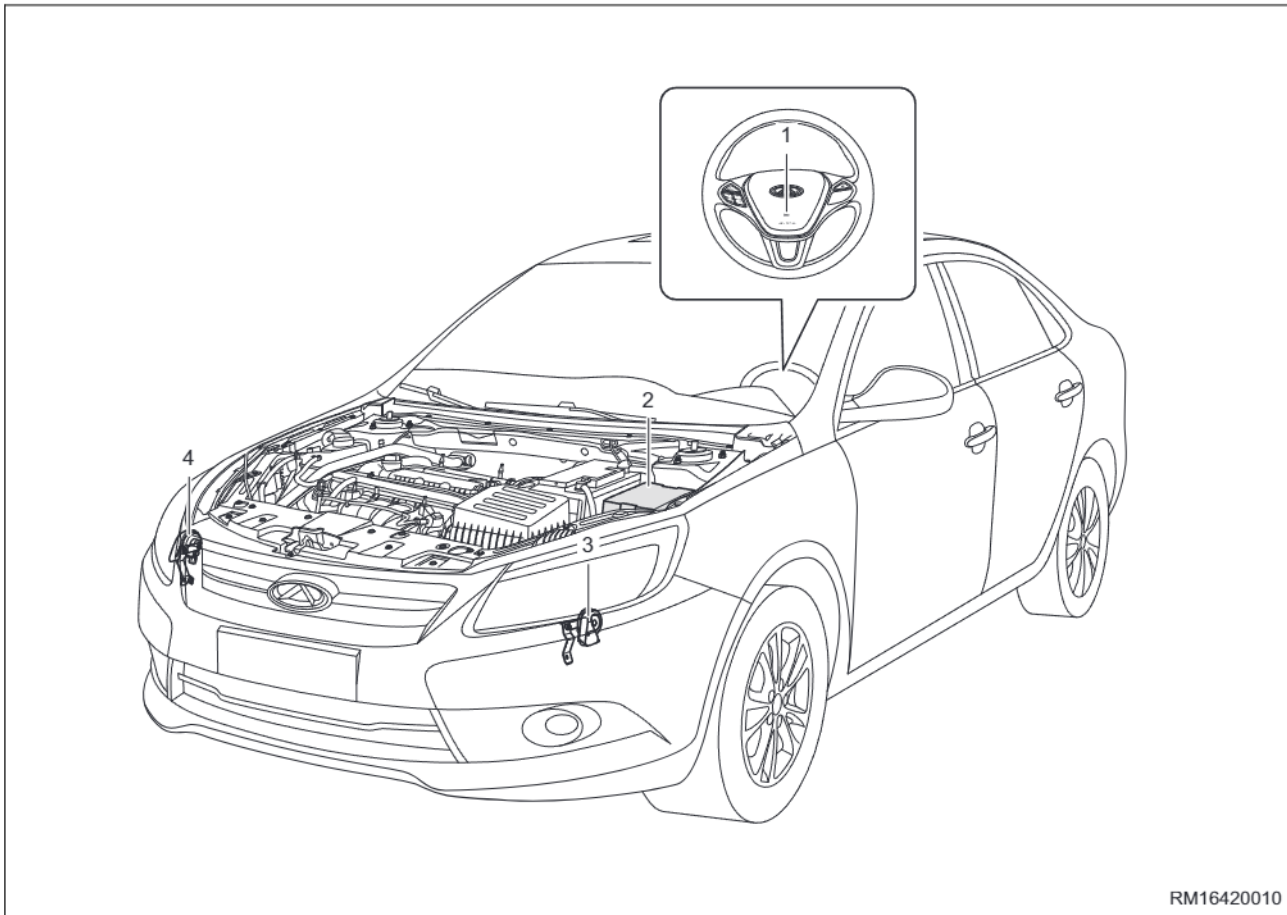

HORN

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GENERAL INFORMATION

Description



RM16420010

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1 - Horn Switch	2 - Engine Compartment Fuse and Relay Box
3 - High Pitched Horn	4 - Low Pitched Horn

This vehicle is equipped with high pitched and low pitched electronic horn system.

Horn system consists of the following components:

- Horn: both high pitched horn and low pitched horn are installed on body frame side rail.
- Horn switch: horn switch is installed on steering wheel.
- Horn fuse: horn fuse is located in engine compartment fuse and relay box.
- Horn relay: horn relay is located in engine compartment fuse and relay box.

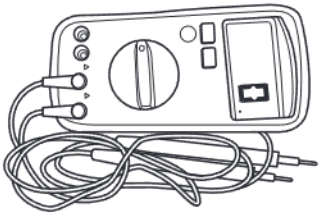
Specification

Torque Specification

Description	Torque (N·m)
Horn Bracket Fixing Nut	15 ± 2

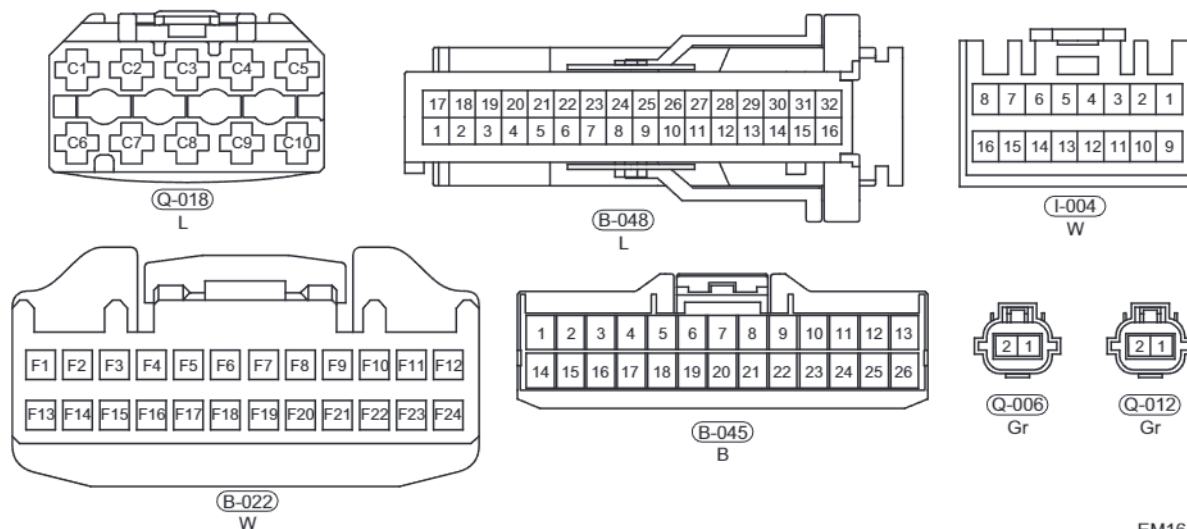
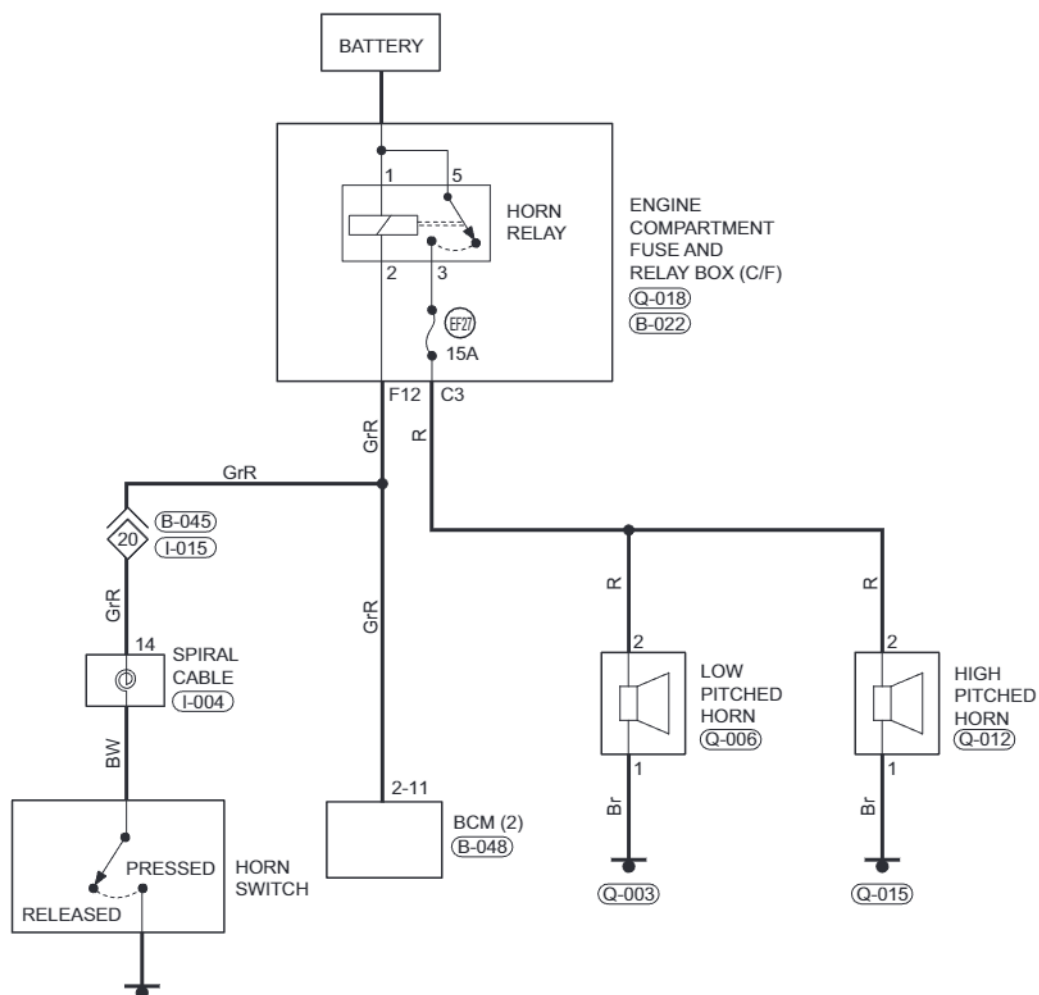
Tool

General Tool

Digital Multimeter	 RCH0000002
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Circuit Diagram

Horn System



EM16420010

DIAGNOSIS & TESTING

Problem Symptoms Table

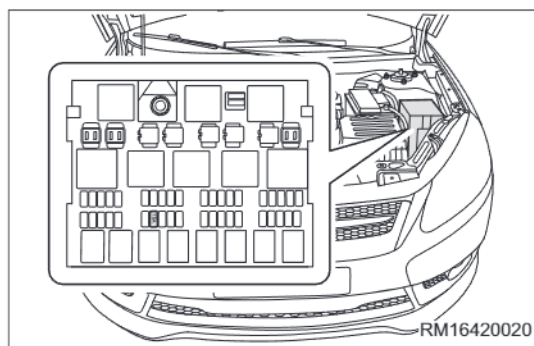
HINT:

Use symptoms table below to help determine cause of problem. Check each suspected area in sequence. Repair or adjust faulty components, or replace as necessary.

Symptom	Suspected Area	See page
Horn does not sound	Horn fuse (blown)	53-37
	Low pitched horn (damaged)	42-8
	High pitched horn (damaged)	42-8
	Horn switch (damaged)	32-85
	Spiral cable (damaged)	32-87
	Wire harness (short or open)	-

Horn Fuse Inspection

1. Identify the horn fuse on engine compartment fuse and relay box.



2. Check the horn fuse.
 - a. Using a fuse puller, remove the horn fuse (15 A).
 - b. Check if fuse is blown. Replace the fuse if it is blown.

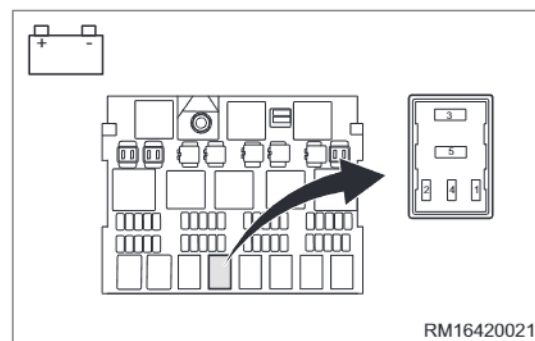
CAUTION

- Use a fuse with the same specification as original fuse to avoid affecting the normal usage of electrical equipment.

Horn Relay Inspection

1. Check the horn relay.
 - a. Remove the horn relay from engine compartment fuse and relay box.
 - b. Check the horn relay.

Multimeter Connection	Condition	Specified Condition
Terminal 3 - Terminal 5	When battery voltage is not applied between terminal 2 and terminal 1	No continuity
Terminal 3 - Terminal 5	When battery voltage is applied between terminal 2 and terminal 1	Continuity



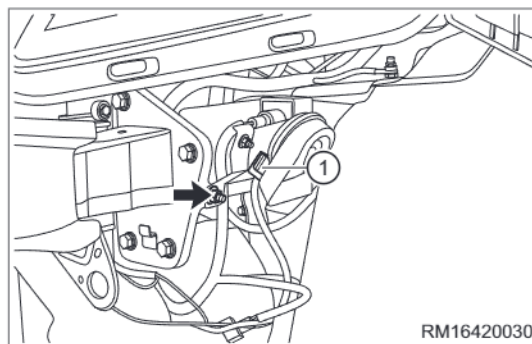
If result is not as specified, replace the relay.

ON-VEHICLE SERVICE

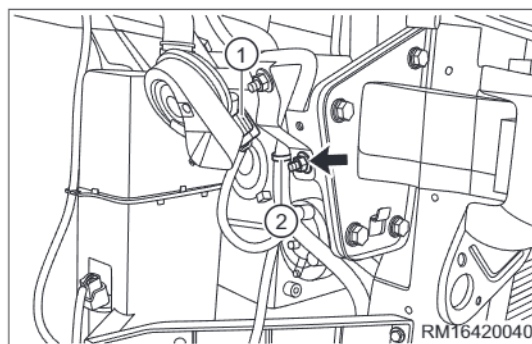
Horn

Removal

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front bumper assembly (See page 49-8).
4. Remove the high pitched horn.
 - a. Disconnect the high pitched horn wire harness connector (1).
 - b. Remove the fixing nut (arrow) from high pitched horn bracket, and remove the high pitched horn.
(Tightening torque: $15 \pm 2 \text{ N}\cdot\text{m}$)



5. Remove the low pitched horn.
 - a. Disconnect the low pitched horn wire harness connector (1) and wire harness fixing clip (2).
 - b. Remove the fixing nut (arrow) from low pitched horn bracket, and remove the low pitched horn.
(Tightening torque: $15 \pm 2 \text{ N}\cdot\text{m}$)

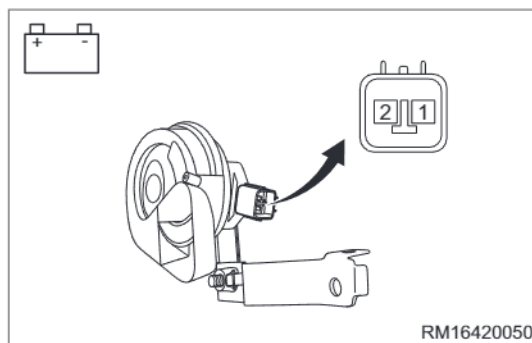


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Inspection

1. Check the high pitched horn.
Apply battery voltage to high pitched horn and check the operation of high pitched horn.

Measurement Condition	Condition	Specified Condition
Battery positive (+) - Terminal 1 Battery negative (-) - Terminal 2	Always	Sounds

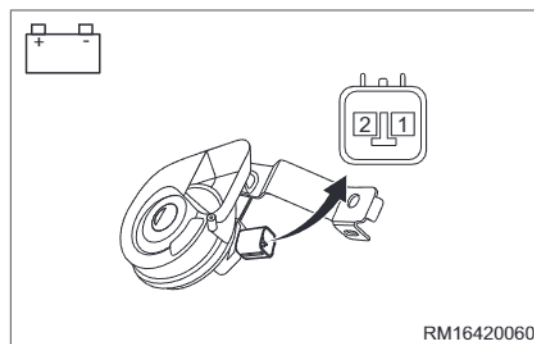


If result is not as specified, replace the high pitched horn.

2. Check the low pitched horn.

Apply battery voltage to low pitched horn and check the operation of low pitched horn.

Measurement Condition	Condition	Specified Condition
Battery positive (+) - Terminal 1 Battery negative (-) - Terminal 2	Always	Sounds



If result is not as specified, replace the low pitched horn.

3. Check the wire harness.

Using a digital multimeter, check horn system wire harness for an open, short or ground failure. Replace the wire harness if necessary.

Installation

Installation is in the reverse order of removal.

CAUTION

- Tighten fixing bolts to the specified torque.
- Install each connector in place.

