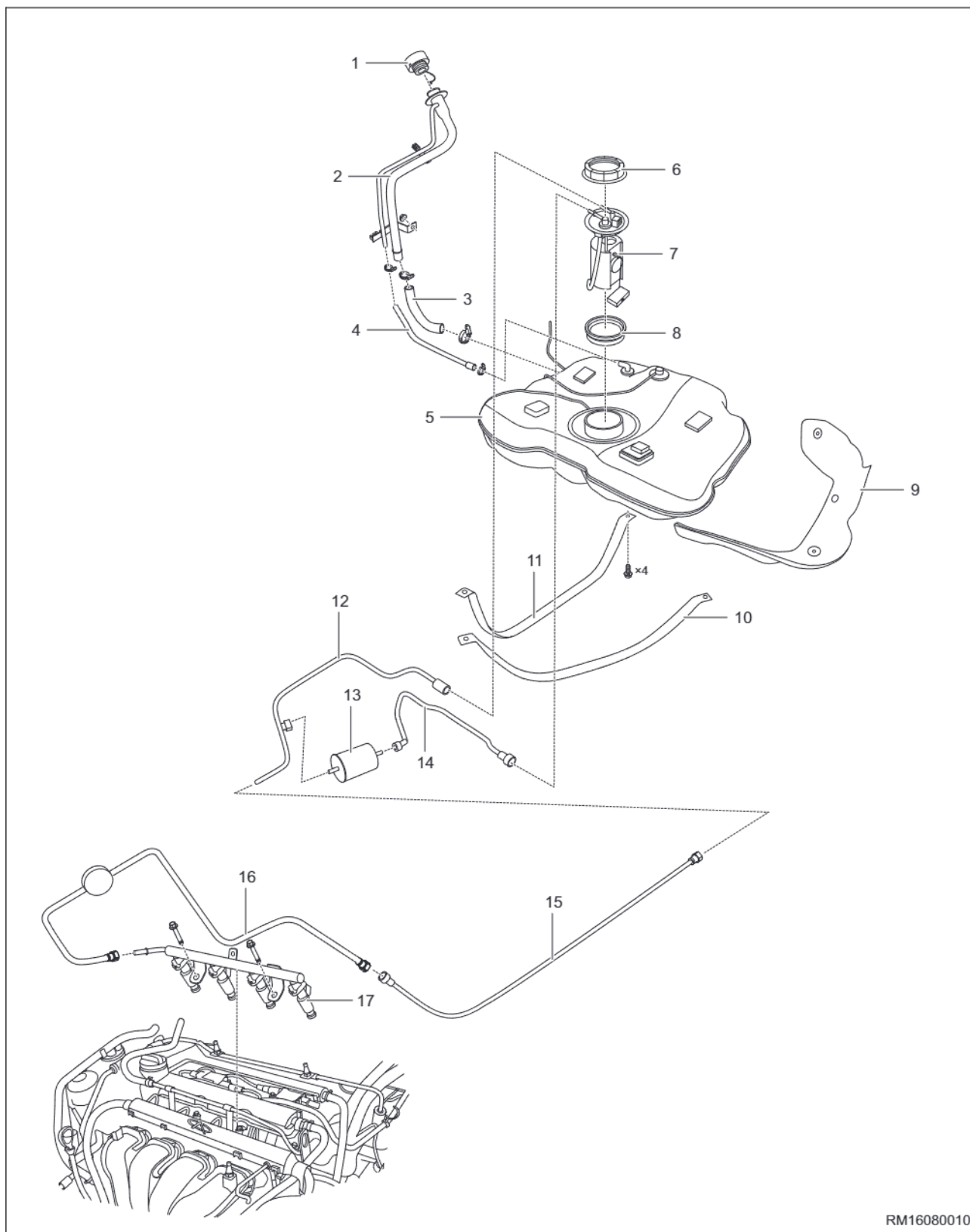

SQRE4G16 FUEL SUPPLY SYSTEM

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GENERAL INFORMATION

Description



1 - Fuel Tank Cap Assembly	2 - Filler Tube Assembly
3 - Fuel Filler Hose	4 - Fuel Breather Hose
5 - Fuel Tank	6 - Fuel Pump Pressure Cap
7 - Electric Fuel Pump Assembly	8 - Fuel Tank Seal Ring
9 - Heat Insulator I	10 - Fuel Tank Fixing Strap I
11 - Fuel Tank Fixing Strap II	12 - Inlet and Return Pipe Assembly
13 - Fuel Filter Assembly	14 - Inlet Pipe I Assembly
15 - Inlet Pipe II Assembly	16 - Inlet Pipe III Assembly
17 - Fuel Rail Injector Assembly	

Engine fuel supply system provides a certain amount and concentration of combustible air-fuel mixture and supplies it to cylinders according to the requirements under various operating conditions of engine. Fuel supply system consists of fuel tank, electric fuel pump assembly, fuel filter assembly, delivery pipes, fuel rail and injectors, which is used for fuel storage, filtration, delivery and injection. The function of fuel supply system is to provide gasoline with sufficient pressure to fuel injectors by using electric fuel pump assembly, and the injector injects a certain amount of gasoline to the top of intake valve in intake manifold in accordance with control signals from ECM.

Specifications

Torque Specifications

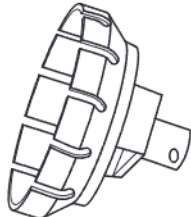
Description	Torque (N·m)
Fuel Filter Bracket Fixing Screw	3.5 ± 0.5
Electric Fuel Pump Assembly Protective Cap Fixing Screw	5 ± 1
Fuel Pump Pressure Cap	75 ± 5
Filler Tube Assembly Fixing Nut	5 ± 1
Filler Tube Assembly Fixing Screw	7 ± 1
Fuel Tank Fixing Strap Fixing Bolt	23 ± 3
Fuel Rail Fixing Bolt	20 + 5
Worm Clamp	3.5 ± 0.5

Fuel Pressure Specifications

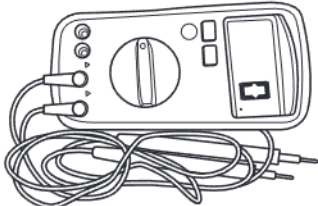
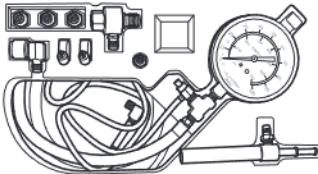
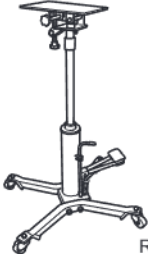
SQRE4G16	Pressure (kPa)
Fuel Rail Fuel Pressure - Key (ON)	400
Fuel Rail Fuel Pressure - Engine Idling	400
Fuel Rail Fuel Pressure - Key (LOCK)	400

Tools

Special Tool

Fuel Pump Pressure Cap Remover	 RCH0000004
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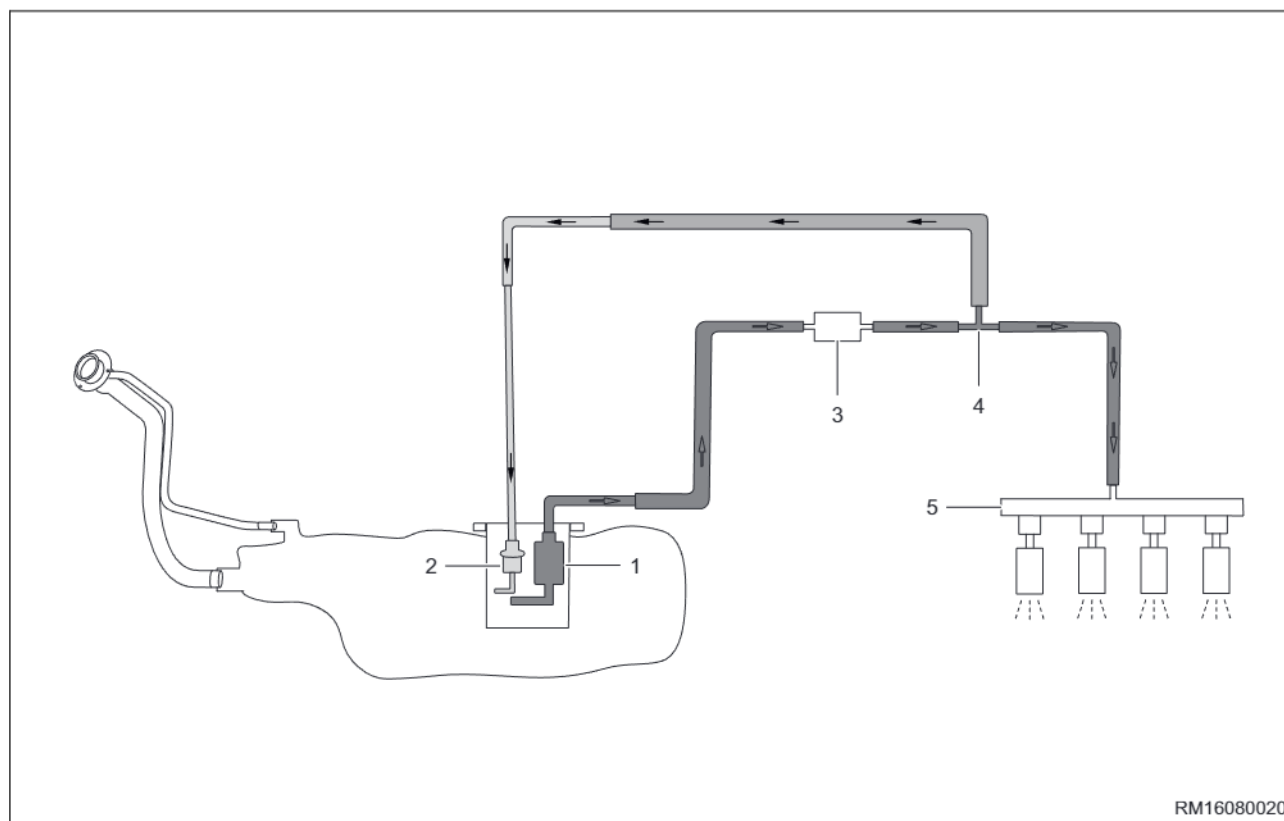
General Tools

Digital Multimeter	 RCH0000002
Fuel System Pressure Tester	 RCH0000048
Transmission Carrier	 RCH0000005

08

Fuel Supply System Line Connection Diagram

08



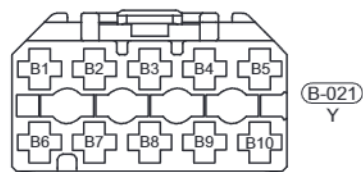
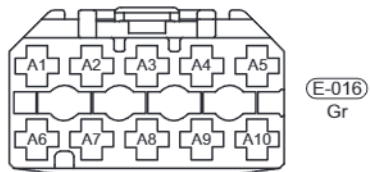
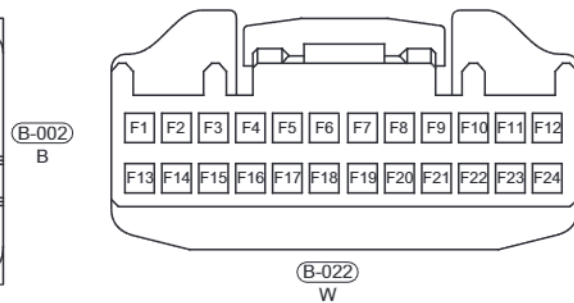
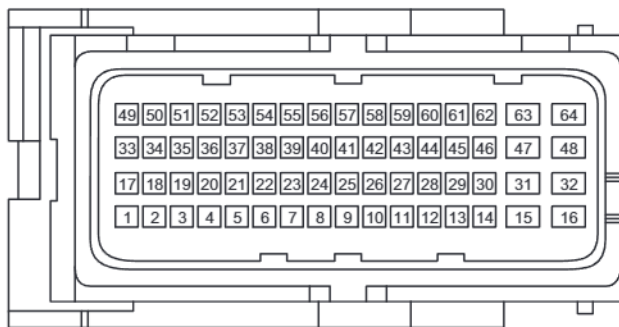
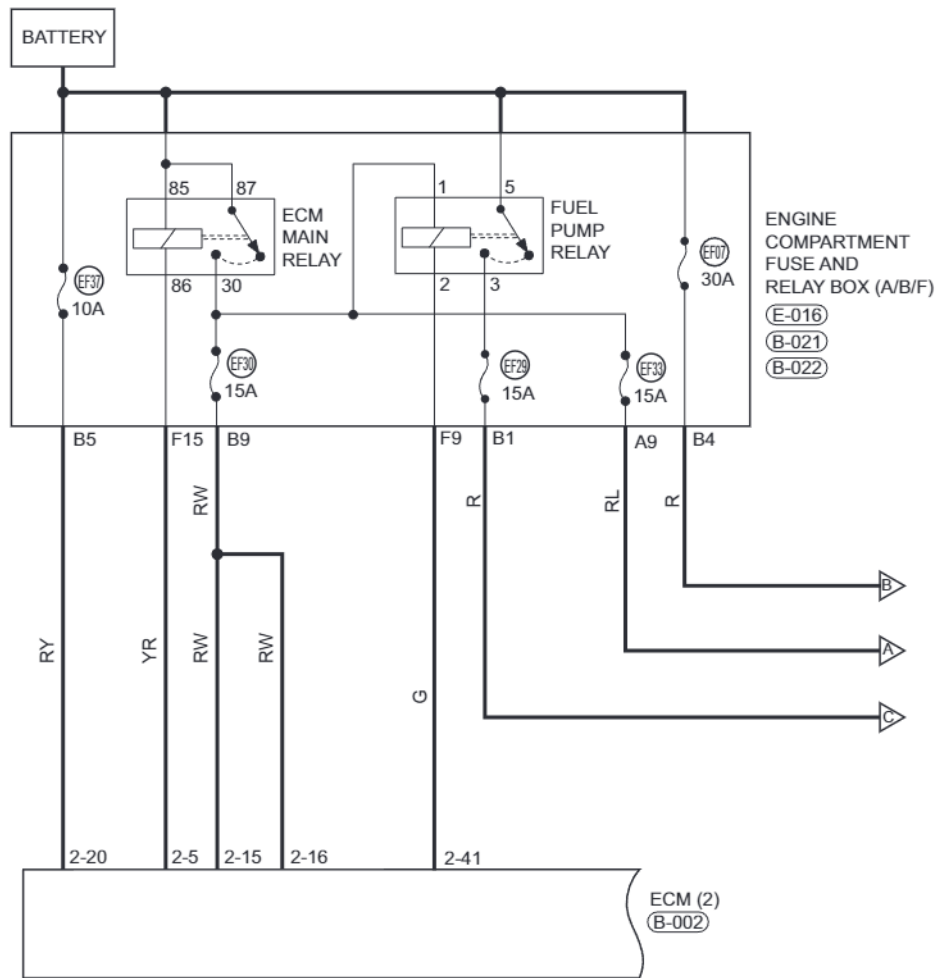
RM16080020

1 - Electric Fuel Pump Assembly	2 - Electric Fuel Pump Assembly Pressure Regulator
3 - Fuel Filter Assembly	4 - Inlet and Return Pipe Assembly
5 - Fuel Rail Injector Assembly	

When engine operates properly, the electric fuel pump assembly (1) sucks fuel from fuel tank and filters it through the fuel filter assembly (3), and then deliveries it to the inlet and return pipe assembly (4). Some fuel enters the fuel rail (5) and is supplied to injectors. Some fuel flows back to the electric fuel pump assembly pressure regulator (2) directly. When fuel supply system pressure is high, the diaphragm spring in the regulator is jacked up by pressure, then the valve opens and fuel flows out from regulator. When pressure reaches normal value, the regulator shuts off and fuel stops flowing out. Finally, the system pressure reaches a steady state.

Circuit Diagram

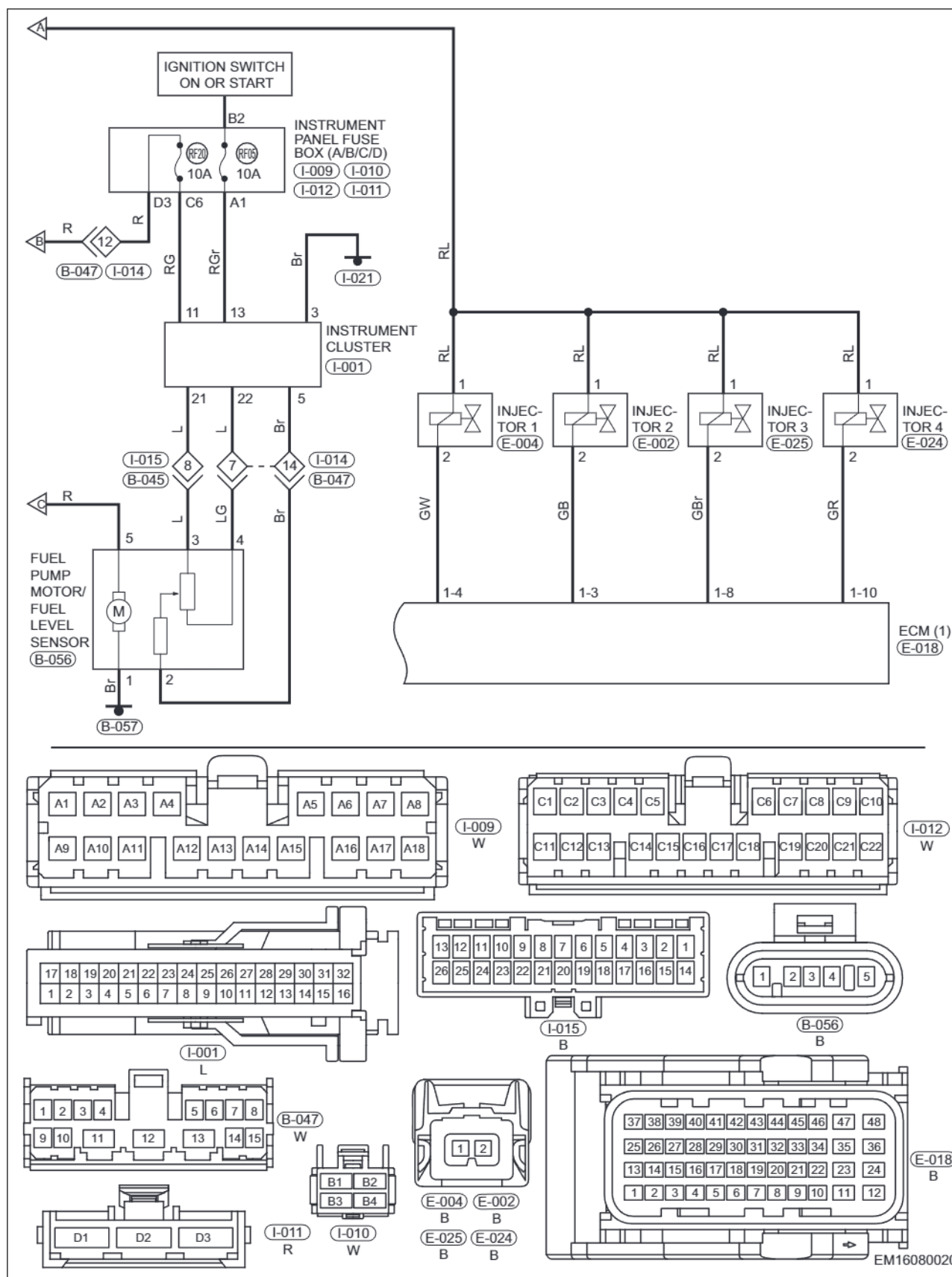
Fuel Supply System (Page 1 of 2)



EM16080010

Fuel Supply System (Page 2 of 2)

08



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
Fuel pressure in fuel supply system is too low	Fuel filter assembly (blocked)	08-13
	Electric fuel pump assembly (strainer blocked)	08-15
Fuel pressure in fuel supply system is too high	Fuel injector (clogged)	08-26
	Electric fuel pump assembly	08-15
Electric fuel pump assembly has loud noise or a delay in operating	Low fuel level	-
	Electric fuel pump assembly relay	53-37
	Electric fuel pump assembly	08-15
Fuel injector is clogged or leaked	Fuel filter assembly (blocked)	08-13
	Fuel injector	08-26
	Poor fuel quality	-
	Excessive impurities in fuel tank	-
Fuel injector does not work	Fuel supply system line (broken)	-
	Fuel injector (short in coil)	08-26
	Electric fuel pump assembly (damaged)	08-15
	Wire harness	-

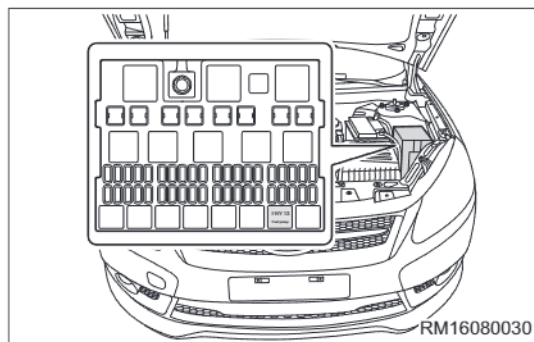
Fuel System Pressure Release

WARNING

- When engine is not operating, the fuel pressure in fuel supply system is still high. Before repairing or disconnecting the fuel line or fuel supply system components, it is necessary to release the fuel supply system pressure to prevent fuel from spraying out accidentally. Failure to follow these instructions may result in serious personal injury or death.

Perform the following procedures to release the fuel pressure in fuel supply system:

1. Recognize and remove the electric fuel pump assembly relay from engine compartment fuse and relay box.



2. Start and run the engine until it stalls.
3. Restart the engine until it does not run.
4. Turn ignition switch off.
5. Disconnect the negative battery cable.
6. Insert the electric fuel pump assembly relay into the original place.

Fuel Supply System Pressure Test

Fuel Pressure Specifications

SQRE4G16	Pressure (kPa)
Fuel Rail Fuel Pressure - Key (ON)	400
Fuel Rail Fuel Pressure - Engine Idling	400
Fuel Rail Fuel Pressure (LOCK)	400

WARNING

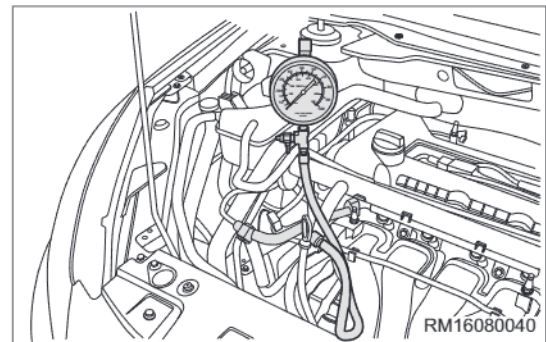
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- Before removing and installing fuel pipes, release the fuel supply system pressure.

08

CAUTION

- Make sure that battery voltage is 11 - 12 V.
- The service life of fuel filter assembly should be within 5000 km.
- Make sure that fuel supply system lines are securely connected, preventing the fuel supply system from leaking.

1. Release the fuel system pressure ([See page 08-10](#)).
2. Remove the engine trim cover.
3. Disconnect the inlet hose connector and connect the fuel supply system pressure tester between inlet hose and fuel rail.



4. Start engine and run it at idle, and then read the value on pressure tester.

Start engine and read the value while idling:

- The standard pressure at idle should be higher than 400 kPa.
- If the measured pressure value is lower than 400 kPa, check fuel filter assembly for blockage.
Replace the fuel filter assembly if necessary ([See page 08-13](#)).
- If the measured pressure value is lower than 400 kPa and fuel filter assembly operates properly, check the electric fuel pump assembly. Replace it as necessary.
- If the measured pressure value is too high, the injector may be clogged or electric fuel pump assembly pressure modulating valve may be malfunctioning.
Replace injector ([See page 08-26](#)) or electric fuel pump assembly ([See page 08-15](#)) if necessary.

ON-VEHICLE SERVICE

Fuel Filter Assembly

Removal

⚠ WARNING

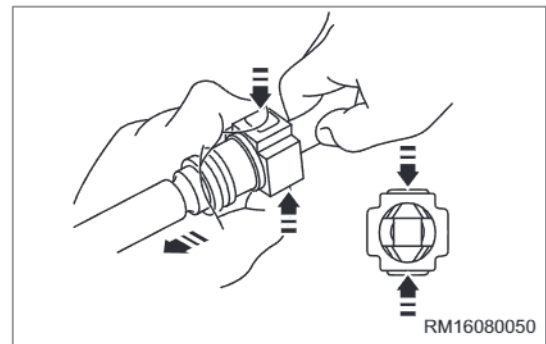
- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- After performing the procedures for fuel system pressure release, there still remains some pressure in fuel line. When disconnecting the fuel line, cover the joint with a piece of cloth or equivalent to prevent fuel from spraying out.
- If fuel leakage occurs when operating the fuel supply system, please handle the leaked fuel in time.

08

👁 CAUTION

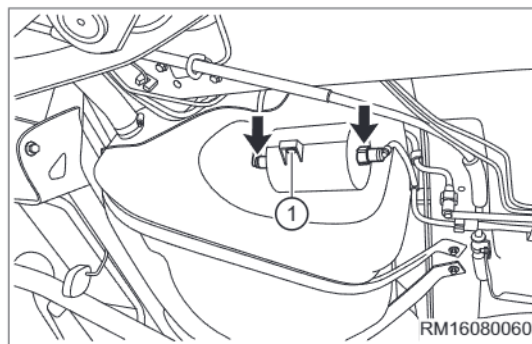
- DO NOT damage the disconnected fuel system line or connectors. Cover the line joints or connectors with plastic bags or equivalent, preventing foreign matter from entering.
- Be sure to wear necessary safety equipment to prevent accidents when repairing.
- Try to prevent body paint surface from being scratched during removal and installation.

Disconnection way for all fuel pipe coupling joints in following procedures is shown in the illustration.



1. Release the fuel pressure in fuel supply system ([See page 08-10](#)).
2. Turn off all electrical equipment and the ignition switch.
3. Disconnect the negative battery cable.
4. Raise the vehicle to a proper height.
5. Remove the fuel filter assembly.

- a. Remove the fuel filter bracket fixing screw (1).
(Tightening torque: $3 \pm 0.5 \text{ N}\cdot\text{m}$)
- b. Disconnect the connecting joints (arrow) on both ends of the fuel filter assembly.



- c. Remove the fuel filter assembly from fuel filter bracket.

CAUTION

- Cover both ends of the fuel filter assembly with plastic bags or equivalent to prevent foreign matter from entering.
- Drain the remaining fuel in fuel filter.

08

ENVIRONMENTAL PROTECTION

- The removed fuel filter assembly should be handled by the specialized department according to local laws and regulations. Never discard it at will.

Installation

Installation is in the reverse order of removal.

CAUTION

- Before connecting hose, check if there is any damage or foreign matter on the hose or joint.
- During installation, push in fuel pipe connector until a click sound is heard from coupling joint, then check that fuel pipe joint clip is on the collar of fuel pipe joint. After installing the pipe joint clip, check that fuel pipe joint cannot be pulled out. Be careful not to damage the joint. If the clip is damaged, replace it.
- Turn ignition switch to ON (without starting engine) to apply fuel pressure to fuel supply system, and then check connections for leakage.

Electric Fuel Pump Assembly

On-vehicle Inspection

1. Inspect the electric fuel pump fuel level sensor.
 - a. Remove the fixing screw from electric fuel pump assembly protective cap, and open the electric fuel pump assembly protective cap.
 - b. Disconnect the electric fuel pump assembly connector.
 - c. Using a digital multimeter, measure the resistance of fuel level sensor based on the fuel volume in fuel tank.

Fuel Level Indicator	Multimeter Connection	Specification (Ω)
E	Terminal 3 - Terminal 2	275 ± 5
1/4	Terminal 3 - Terminal 2	165 ± 4
1/2	Terminal 3 - Terminal 2	97 ± 4
3/4	Terminal 3 - Terminal 2	79 ± 3
F	Terminal 3 - Terminal 2	32 ± 3

If result is not as specified, replace the fuel level sensor.

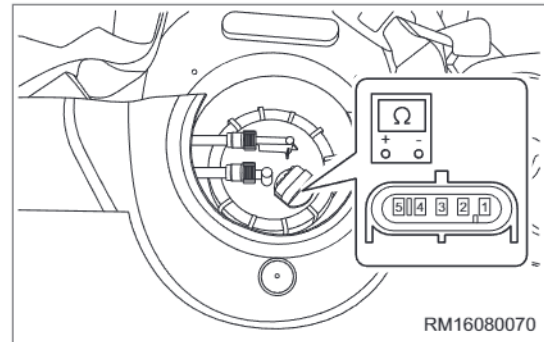
2. Check the electric fuel pump assembly operation.
 - a. Remove the fixing screw from electric fuel pump assembly protective cap, and open the electric fuel pump assembly protective cap.
 - b. Disconnect the electric fuel pump assembly connector.
 - c. Apply battery voltage to terminals 5 and 1. Check if electric fuel pump assembly operates in 10 seconds.

HINT:

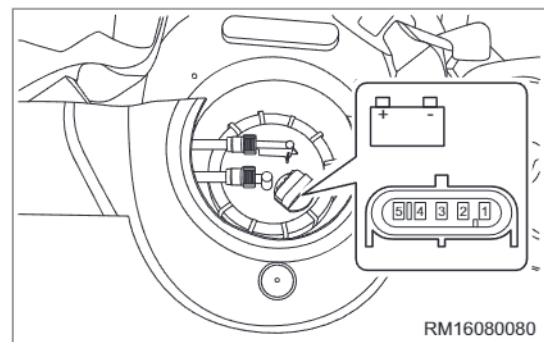
- These tests must be finished within 10 seconds to prevent the coils from being burnt.
- Leave the electric fuel pump assembly as far as possible from the battery.
- Always switch voltage on and off on the battery side, rather than the electric fuel pump assembly side.

Battery Connection	Specification
Battery positive (+) to Terminal 5 Battery negative (-) to Terminal 1	Fuel pump operates

If the electric fuel pump assembly does not operate, replace it.



08



Removal

⚠ WARNING

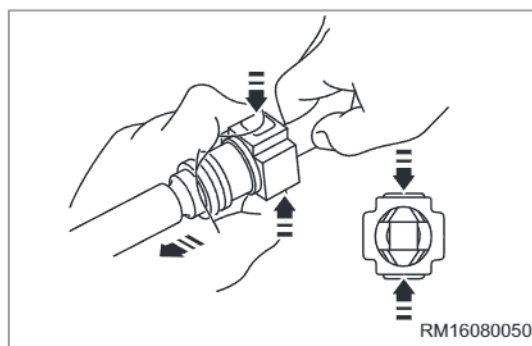
- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- After performing the procedures for fuel system pressure release, there still remains some pressure in fuel line. When disconnecting the fuel line, cover the joint with a piece of cloth or equivalent to prevent fuel from spraying out.
- If fuel leakage occurs when operating the fuel supply system, please handle the leaked fuel in time.

👁 CAUTION

08

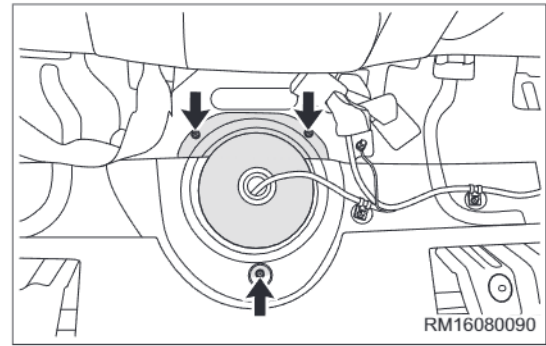
- Be sure to wear necessary safety equipment to prevent accidents when repairing.
- Try to prevent body paint surface from being scratched during removal and installation.
- Operation staff should wear protective glasses and rubber gloves during repairment and avoid inhaling much fuel gas.
- Only use parts approved by Chery Automobile Co., Ltd. to replace the electric fuel pump assembly.
- As electric fuel pump assembly radiates through fuel, low fuel level in fuel tank will directly shorten the service life of electric fuel pump assembly.
- Keep electric fuel pump assembly and work area clean when replacing electric fuel pump assembly; otherwise the electric fuel pump assembly element will be clogged.
- DO NOT damage the disconnected fuel system line or connectors. Cover the line joints or connectors with plastic bags or equivalent, preventing foreign matter from entering.
- Keep fuel tank and line clean, and replace the fuel filter assembly if the electric fuel pump assembly has been replaced.

Disconnection way for all fuel pipe coupling joints in following procedures is shown in the illustration.

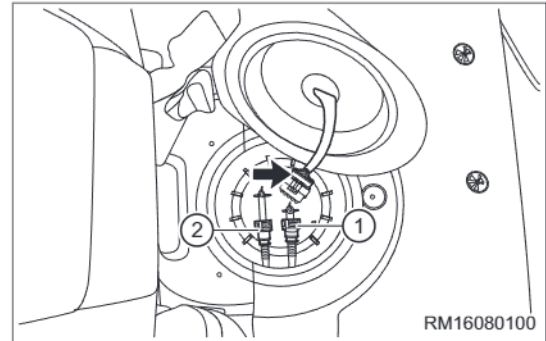


1. Release the fuel system pressure ([See page 08-10](#)).
2. Turn off all electrical equipment and the ignition switch.
3. Disconnect the negative battery cable.
4. Open the fuel tank cap assembly and discharge the fuel vapor in fuel tank.
5. Remove the rear seat cushion ([See page 47-25](#)).
6. Remove the electric fuel pump assembly.

- a. Remove 3 fixing screws (arrow) from electric fuel pump assembly protective cap, and open the electric fuel pump assembly protective cap.
(Tightening torque: 5 ± 1 N·m)



- b. Disconnect the electric fuel pump assembly connector (arrow).
c. Disconnect the coupling joint (1) between electric fuel pump assembly and inlet pipe I assembly.
d. Disconnect the coupling joint (2) between electric fuel pump assembly and inlet and return pipe assembly.

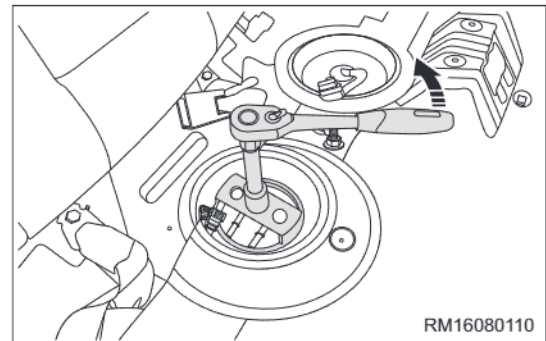


08

CAUTION

- Before disconnecting joints, remove all dirt and foreign matter from electric fuel pump pressure cap.
- DO NOT forcefully bend or twist delivery pipes.

- e. Using the special tool (fuel pump pressure cap remover), remove the fuel pump pressure cap.
(Tightening torque: 75 ± 5 N·m)



- f. Take the electric fuel pump assembly out of fuel tank.

 CAUTION

- Operate carefully when pulling the electric fuel pump assembly out of fuel tank, preventing damaging lines, wire harnesses and floats.
- Cover the electric fuel pump assembly completely with a plastic bag or equivalent to prevent foreign matter from entering.
- The electric fuel pump assembly can be put into a container and taken out of the cabin, thus preventing fuel in the pump from dropping into the cabin.
- It is not allowed to perform running test for electric fuel pump assembly under dry state or in water. Otherwise service life will be reduced. In addition, do not inversely connect electric fuel pump assembly positive and negative poles.
- To keep fuel tank clean, cover it completely with a plastic bag or equivalent to prevent foreign matter from entering.

g. Drain the fuel in the electric fuel pump assembly.

08 Installation

Installation is in the reverse order of removal.

 CAUTION

- DO NOT connect the negative battery cable during installation. Work area should be in good ventilation and keep fire sources or open flames away.
- To avoid damaging electric fuel pump assembly, align electric fuel pump assembly with installation position of fuel tank and do not run the electric fuel pump assembly without fuel in fuel tank.
- Before connecting hose, check if there is any damage or foreign matter on the hose or joint.
- During installation, push in fuel pipe connector until a click sound is heard, then check that fuel pipe joint clip is on the collar of fuel pipe joint. After installing the pipe joint clip, check that fuel pipe joint cannot be pulled out. Be careful not to damage the joint. If the clip is damaged, replace it.
- Turn ignition switch to ON (without starting engine) to apply fuel pressure to fuel supply system, and then check connections for leakage.

Filler Tube Assembly

Removal

⚠ WARNING

- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- If fuel leakage occurs when operating the fuel supply system, please handle the leaked fuel in time.

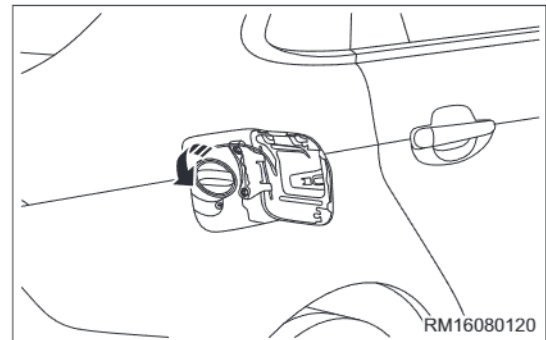
👁 CAUTION

- Be sure to wear necessary safety equipment to prevent accidents when repairing.
- Try to prevent body paint surface from being scratched during removal and installation.

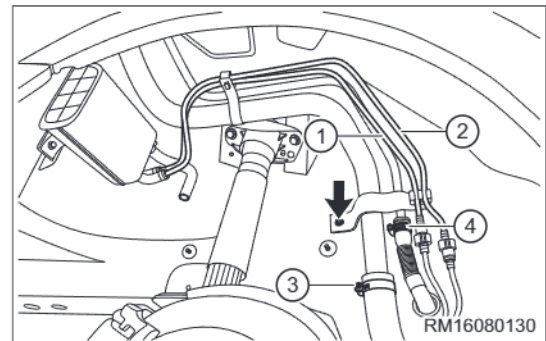
08

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the rear right wheel house protector ([See page 49-32](#)).
4. Remove the filler tube assembly.

- a. Open the fuel filler door, rotate the fuel tank cap assembly in the direction of arrow as shown in the illustration.



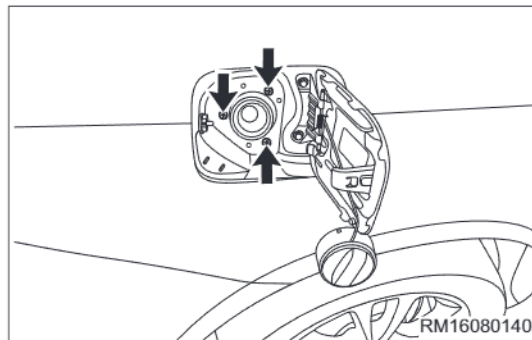
- b. Remove the fuel vapor hose I assembly (1) and fuel vapor hose II assembly (2) from filler tube assembly.
- c. Loosen the worm clamp (3) and disconnect the connection between fuel breather hose and filler tube assembly.
(Tightening torque: $3.5 \pm 0.5 \text{ N}\cdot\text{m}$)
- d. Loosen the worm clamp (4) and disconnect the connection between fuel filler hose and filler tube assembly.
(Tightening torque: $3.5 \pm 0.5 \text{ N}\cdot\text{m}$)
- e. Remove the coupling bolt (arrow) between filler tube assembly and body.
(Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$)



CAUTION

- Cover the joints with plastic bags after disconnecting the fuel filler hose and fuel breather hose, in order to prevent foreign matter from entering the fuel tank and fuel from evaporating or leaking.

- f. Remove 3 fixing screws (arrow) from filler tube assembly.
(Tightening torque: 7 ± 1 N·m)

**08**

- g. Remove the filler tube assembly.

Installation

Installation is in the reverse order of removal.

Fuel Tank

Removal

⚠ WARNING

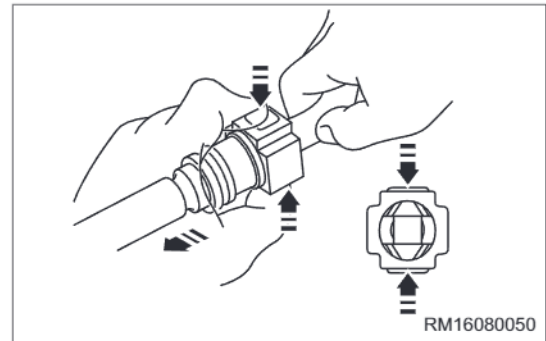
- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- After performing the procedures for fuel system pressure release, there still remains some pressure in fuel line. When disconnecting the fuel line, cover the joint with a piece of cloth or equivalent to prevent fuel from spraying out.
- If fuel leakage occurs when operating the fuel supply system, please handle the leaked fuel in time.

👁 CAUTION

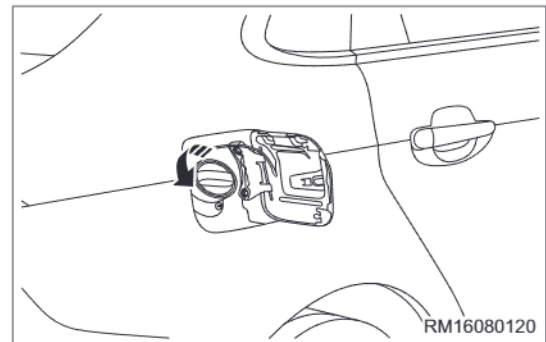
- DO NOT damage the disconnected fuel system line or connectors. Cover line joints or connectors with plastic bags or equivalent, preventing foreign matter from entering.
- Be sure to wear necessary safety equipment to prevent accidents when repairing.
- Try to prevent body paint surface from being scratched during removal and installation.

08

Disconnection way for all fuel pipe coupling joints in following procedures is shown in the illustration.

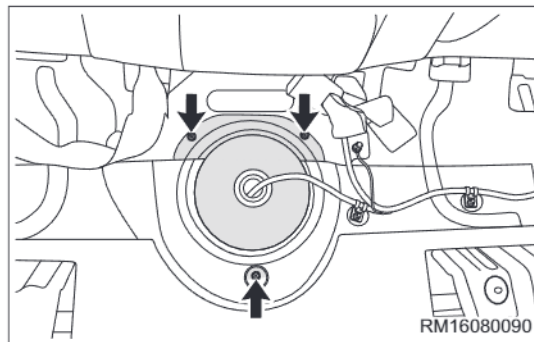


1. Release the fuel system pressure ([See page 08-10](#)).
2. Turn off all electrical equipment and the ignition switch.
3. Disconnect the negative battery cable.
4. Open the fuel filler door, rotate the fuel tank cap assembly in the direction of arrow as shown in the illustration and discharge fuel vapor in fuel tank.

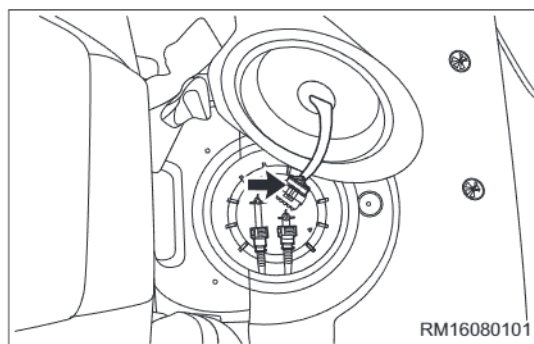


5. Disconnect the electric fuel pump assembly side pipe and line connection.

- a. Remove the rear seat cushion (See page 47-25).
- b. Remove 3 fixing screws (arrow) from electric fuel pump assembly protective cap, and open the electric fuel pump assembly protective cap.
(Tightening torque: 5 ± 1 N·m)



- c. Disconnect the electric fuel pump assembly connector (arrow).



08

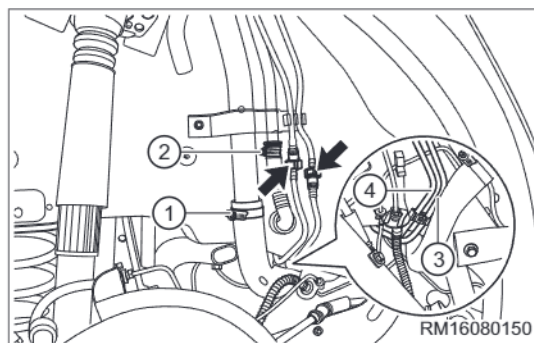
CAUTION

- Before disconnecting the joints, remove all dirt and foreign matter from electric fuel pump assembly pressure cap.
- DO NOT forcefully bend or twist delivery pipes.

6. Remove the fuel filter assembly (See page 08-13).

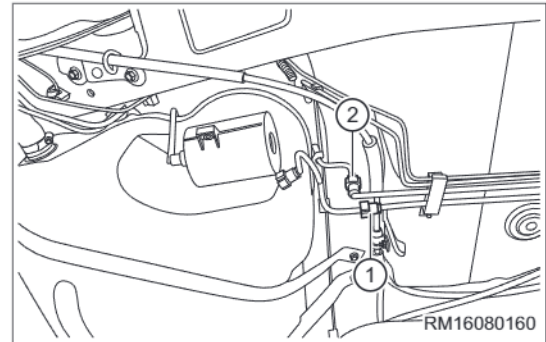
7. Remove the fuel tank.

- a. Loosen the worm clamp (1) and disconnect the connection between fuel breather hose and filler tube assembly.
(Tightening torque: 3.5 ± 0.5 N·m)
- b. Loosen the worm clamp (2) and disconnect the connection between fuel filler hose and filler tube assembly.
(Tightening torque: 3.5 ± 0.5 N·m)
- c. Disconnect the coupling joints (arrow) between fuel vapor hoses.
- d. Move away the fuel vapor hose (3) and fuel vapor hose III assembly (4) from hose clamp.

**CAUTION**

- Cover the joints with plastic bags after disconnecting the fuel filler hose and fuel breather hose, in order to prevent foreign matter from entering the fuel tank and fuel from evaporating or leaking.

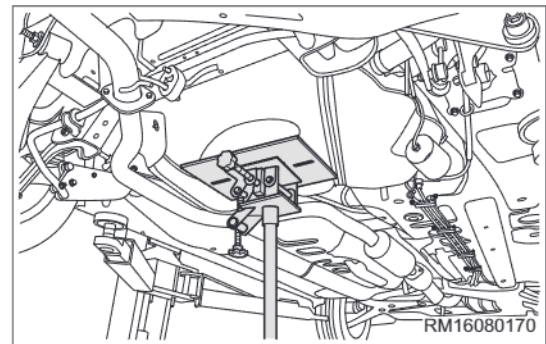
- e. Pull out the fuel breather hose from body installation hole.
- f. Disconnect the coupling joint (1) between inlet and return pipe assembly and inlet pipe II assembly.
- g. Disconnect the coupling joint (2) between fuel vapor hose III assembly and fuel vapor hose IV assembly.



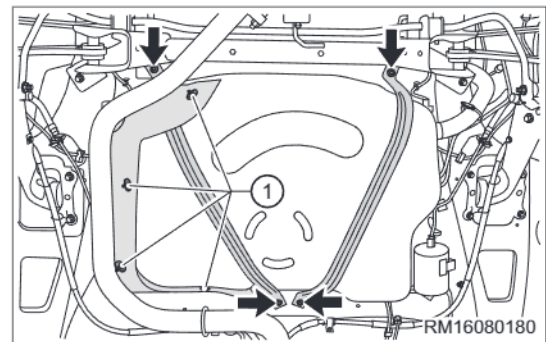
CAUTION

- Before disconnecting the joints, remove any dirt and foreign matter from the retainer.
- DO NOT forcefully bend or twist delivery pipes.

- h. Support the fuel tank with a transmission carrier.

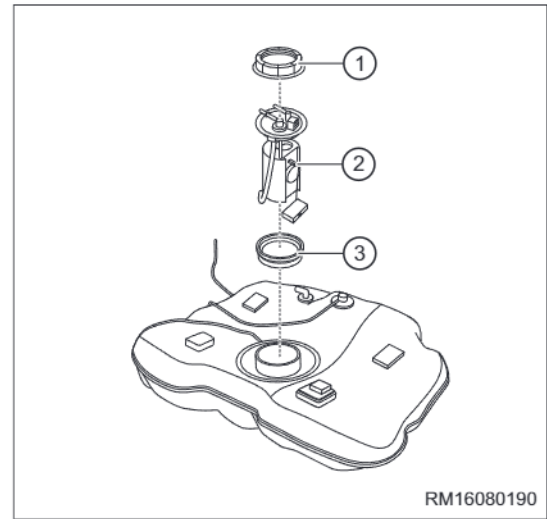


- i. Remove 4 fixing clamps (1) from heat insulator I.
- j. Remove 4 fixing bolts (arrow) from fuel tank fixing straps and remove the fuel tank fixing straps. (Tightening torque: 23 ± 2 N·m)



- k. Slowly lower the transmission carrier to remove the fuel tank.

8. Remove the fuel pump pressure cap (1), electric fuel pump assembly (2) and fuel tank seal ring (3) from fuel tank.



CAUTION

08

- DO NOT damage the float when removing the electric fuel pump assembly.

Fuel Tank Accessories Description

1. Fuel Vapor Valve

Function of fuel vapor valve:

When fuel vapor is produced in the fuel tank, the vapor will enter the charcoal canister through fuel vapor valve (1) by fuel vapor hose (2). When the vehicle body bumps or overturns, fuel vapor valve will automatically lock to prevent fuel overflow.

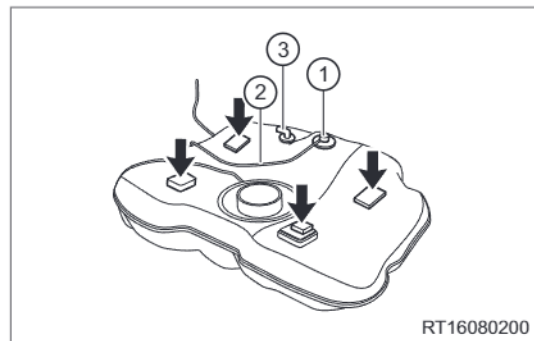
2. Fuel Breather Pipe

Function of fuel breather pipe:

When filling fuel tank through fuel filler, the fuel vapor will get out of fuel tank through fuel breather pipe (3).

3. Fuel Tank Cushion

Pay attention to the installation positions of fuel tank cushions (arrow). Incorrect installation will damage the fuel tank or fuel lines due to friction between fuel tank and body.



08

Installation

Installation is in the reverse order of removal.

CAUTION

- Return the fuel lines and fuel breather hose of fuel tank to their original positions, or the fuel lines will be damaged due to friction generated by the body shock, causing fuel leak.
- Before connecting the hose, check if there is any damage or foreign matter on the hose or joint.
- During installation, push in fuel pipe connector until a click sound is heard, then check that fuel pipe joint clip is on the collar of fuel pipe joint. After installing the pipe joint clip, check that fuel pipe joint cannot be pulled out. Be careful not to damage the joint. If the clip is damaged, replace it.
- Turn ignition switch to ON (without starting engine) to apply fuel pressure to fuel supply system, and then check connections for leakage.

Fuel Rail Injector Assembly

Removal

⚠ WARNING

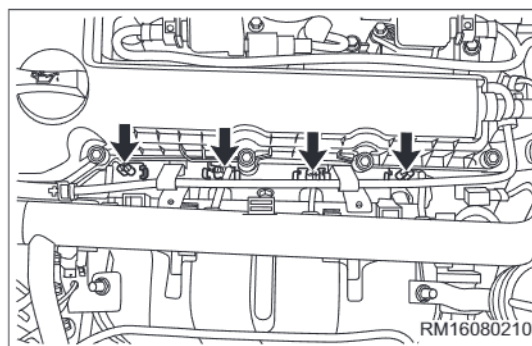
- Before operating the fuel supply system, please touch the vehicle body to discharge static electricity; failure to do so will cause a fire, even result in an explosion.
- When operating the fuel supply system, work area should be in good ventilation and keep fire sources or open flames away from the work area, in which fire extinguisher should be equipped.
- After performing the procedures for fuel system pressure release, there still remains some pressure in fuel line. When disconnecting the fuel line, cover the joint with a piece of cloth or equivalent to prevent fuel from spraying out.
- If fuel leakage occurs when operating the fuel supply system, please handle the leaked fuel in time.

08

👁 CAUTION

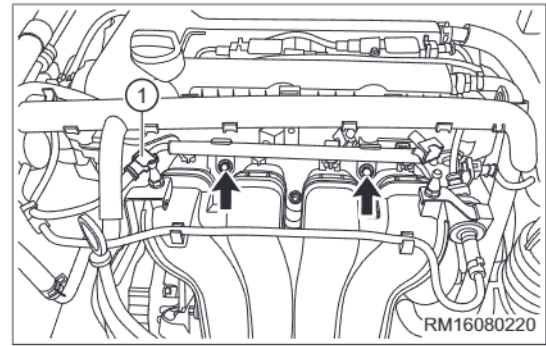
- Be sure to wear necessary safety equipment to prevent accidents when repairing.
- Try to prevent body paint surface from being scratched during removal and installation.
- DO NOT damage the disconnected fuel system line or connectors. Cover the line joints or connectors with plastic bags or equivalent, preventing foreign matter from entering.
- Injector is a part of high accuracy, featuring good anti-clogging, anti-pollution and atomization, so be careful not to damage the injector during removal of fuel rail.

1. Release the fuel pressure in the fuel supply system ([See page 08-10](#)).
2. Turn off all electrical equipment and the ignition switch.
3. Disconnect the negative battery cable.
4. Remove the engine trim cover.
5. Remove the fuel rail injector Assembly.
 - a. Disconnect 4 connectors (arrow) from injectors separately.

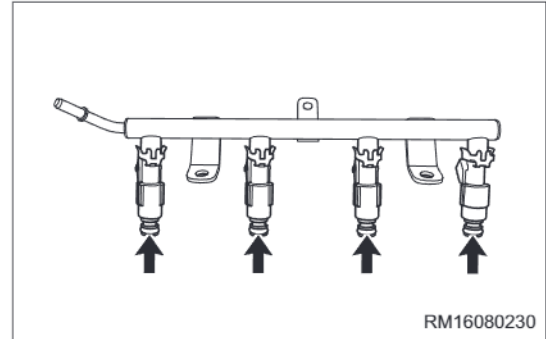


- b. Move away the engine wire harness clips from fuel rail.

- c. Disconnect the coupling joint (1) between delivery pipe and fuel rail.
- d. Loosen and remove 2 fixing bolts (arrow) from fuel rail.
(Tightening torque: $20 + 5 \text{ N}\cdot\text{m}$)



- e. Remove the fuel rail and fuel injectors.
6. Remove the injector clips and remove the injectors (arrow) from fuel rail.

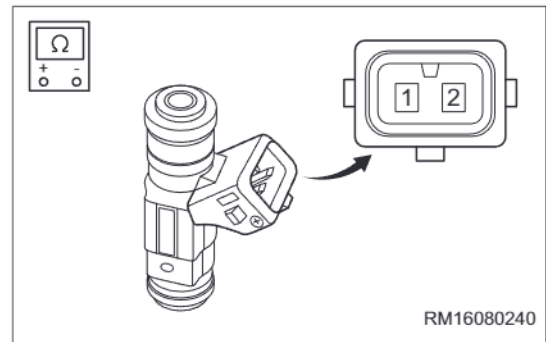


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Inspection

1. Disconnect the injector connector.
2. Measure the resistance between 2 terminals (injector side) of the injector with a digital multimeter.

Multimeter Connection	Measurement Temperature	Specification (Ω)
Terminal 1 - Terminal 2	20°C	12



Installation

Installation is in the reverse order of removal.

CAUTION

- Install a new seal to the injector sealing surface.
- Before installing the injector, apply clean grease or oil to the O-ring sealing surface for easy installation, preventing damage to the O-ring.
- When applying grease or oil, do not contaminate the injector internal and injection holes.
- It is not allowed to use any tool (hammer, ect.) to strike the injector when installing it.

