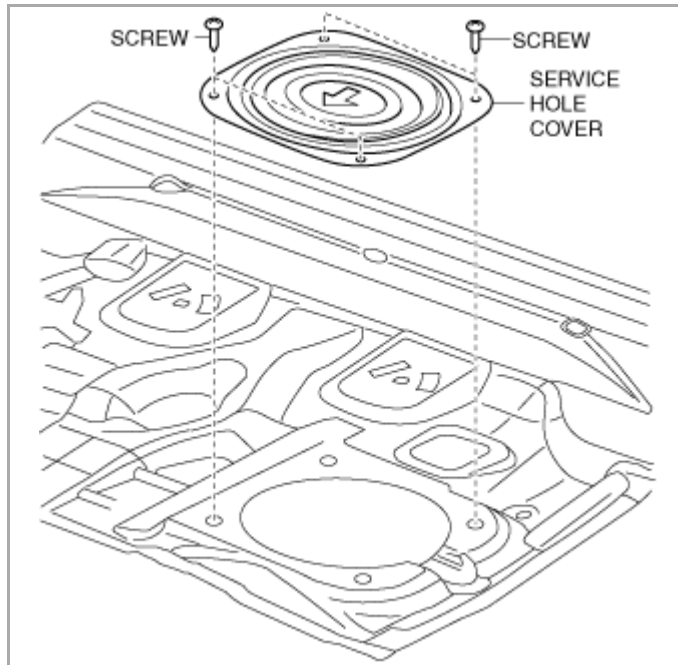


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

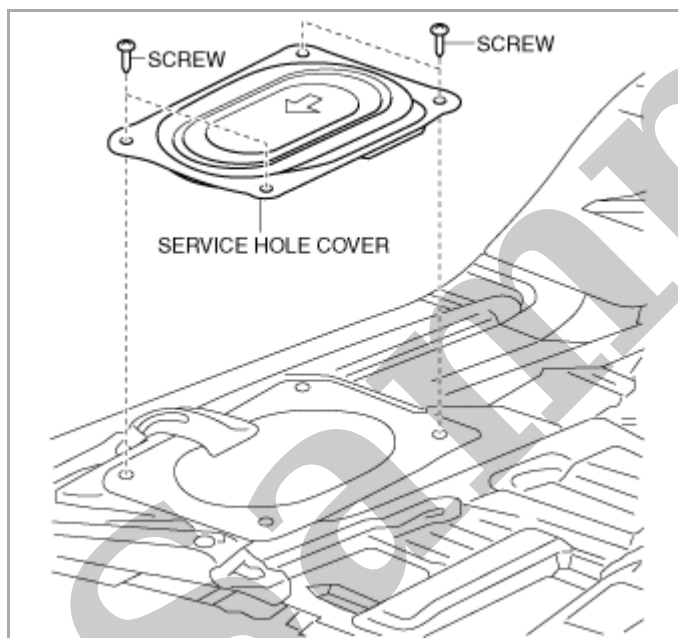
2008 MAZDA 3 MPS / MAZDASPEED3 OEM Service and Repair Workshop Manual

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Sub side



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6. Disconnect the following parts:

Main side

- Fuel gauge sender unit (main) connector
- Fuel hose (main side)
- Fuel hose (return side)

Sub side

- Fuel gauge sender unit (sub) connector

7. Remove the floor under cover. (See [FLOOR UNDER COVER REMOVAL/INSTALLATION](#).)

8. Remove the middle pipe. (See [EXHAUST SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

SUPPLY PUMP REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

SM2897520

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Replacement Part

Clip	Injection pipe (supply pump side)	Clip
Quantity: 5	Quantity: 1	Quantity: 1
Location of use: Fuel return pipe (fuel injector side)	Location of use: Supply pump	Location of use: Fuel feed pipe
Washer	Clip	Washer
Quantity: 2	Quantity: 1	Quantity: 2
Location of use: Fuel feed pipe	Location of use: Bracket	Location of use: Connector No.2
O-ring	Washer	Fuel return hose No.2
Quantity: 1	Quantity: 2	Quantity: 1
Location of use: Supply pump	Location of use: Connector No.1	Location of use: Supply pump
Fuel return hose No.3		
Quantity: 1	-	-
Location of use: Supply pump		

Oil and Chemical Type

Engine oil	Silicone sealant
Type: Recommended oil	Type: TB1217D or equivalent

Warning

- Highly pressurized fuel may spray out if the fuel line is cut. Due to the following dangers occurring with a fuel spray, always complete the “Fuel Line Safety Procedure” to prevent the fuel from spraying.
 - Fuel may cause irritation if it comes in contact with skin and eyes.
 - If fuel ignites and causes a fire, it may lead to serious injury or death, and damage to property and facilities.
- A person charged with static electricity could cause a fire or explosion, resulting in death or serious injury. Before draining fuel, make sure to discharge static electricity by touching the vehicle body.

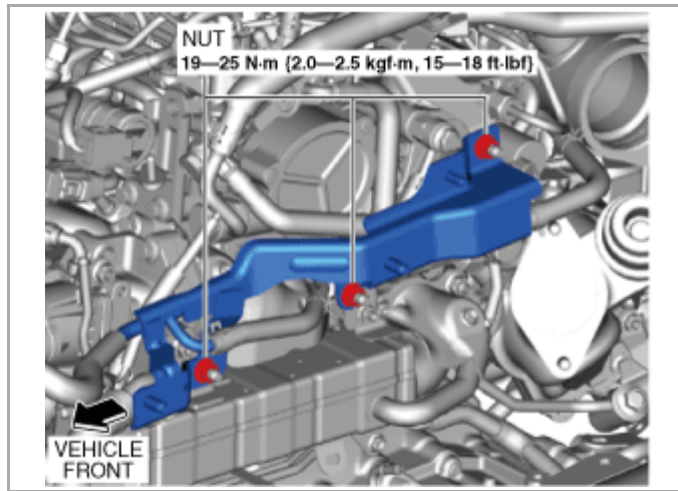
Caution

- If parts are exposed to the fuel, their function may be decreased or a fire may occur. Spread a rag to absorb any leaked fuel.
- Do not let foreign matter get into the injection pipe to prevent clogging. Always tighten the injection pipe to the specified torque.
- To prevent fuel leakage, when removing/installing the supply pump, always follow the procedure in the Workshop Manual and perform the procedure.

Note

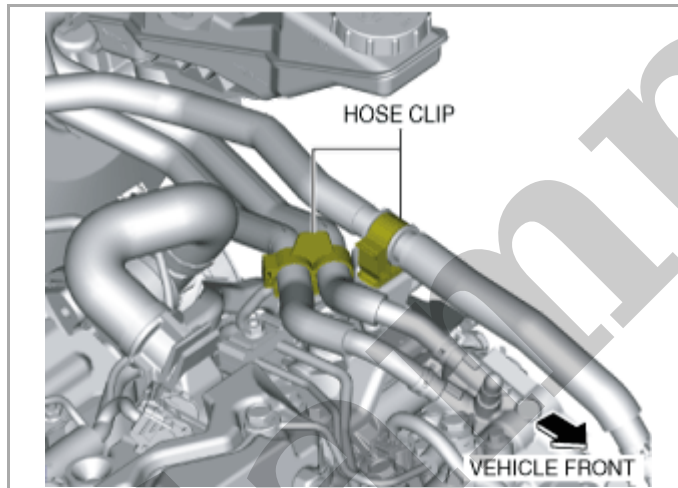
- If the supply pump is replaced, perform the “Operation After Replacing Supply Pump” procedure.

13.Remove the nuts and set the water pipe component aside.



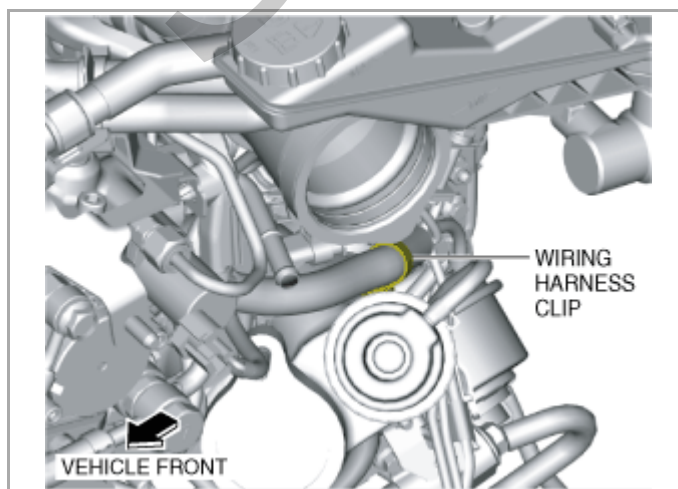
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14.Disconnect the hose clips shown in the figure.



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15.Disconnect the wiring harness clip shown in the figure.



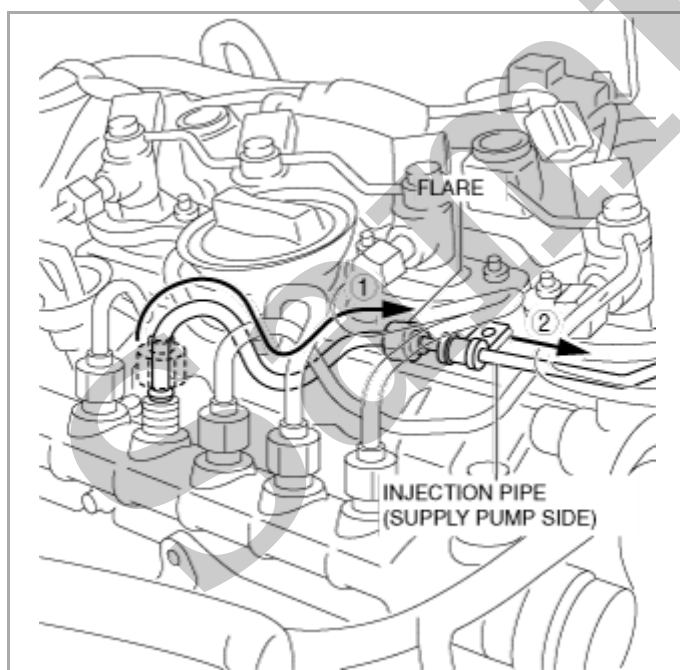
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16.Disconnect the wiring harness clip shown in the figure.

6	Injection pipe (supply pump side) (See Injection pipe (supply pump side) removal note.) (See Injection pipe (supply pump side) installation note.)
7	Clip
8	Bracket
9	Fuel return hose No.3 (See Fuel return hose No.3 installation note.)
10	Fuel return hose No.2 (See Fuel return hose No.2 installation note.)
11	Suction control valve connector
12	Supply pump (See Supply pump installation note.) (See Operation After Replacing Supply Pump.)
13	Connector No.1 (See Connector No.1 installation note.)
14	Connector No.2
15	Spacer

Injection pipe (supply pump side) removal note

1.Remove the injection pipe (supply pump side) as shown in the figure. (See [INJECTION PIPE REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))



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(1)Move the flared section.

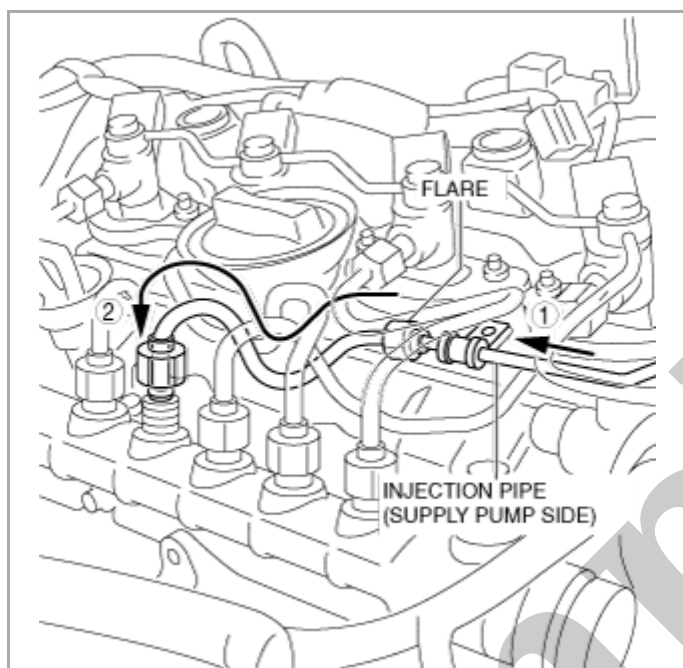
(2)Pull out the injection pipe (supply pump side).

2.Remove the injection pipe (supply pump side).

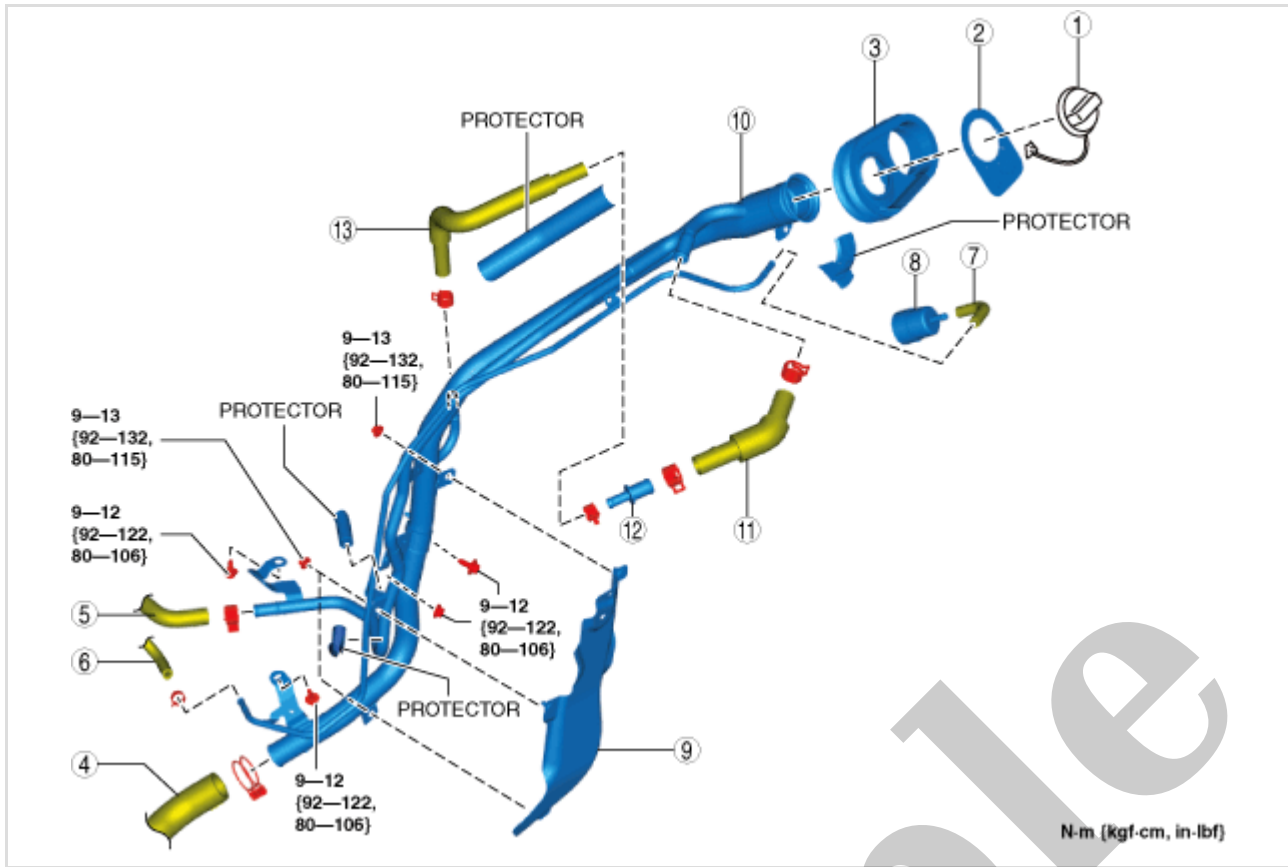
Connector No.1 installation note

Injection pipe (supply pump side) installation note

1. Install the injection pipe (supply pump side) as shown in the figure. (See [INJECTION PIPE REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)



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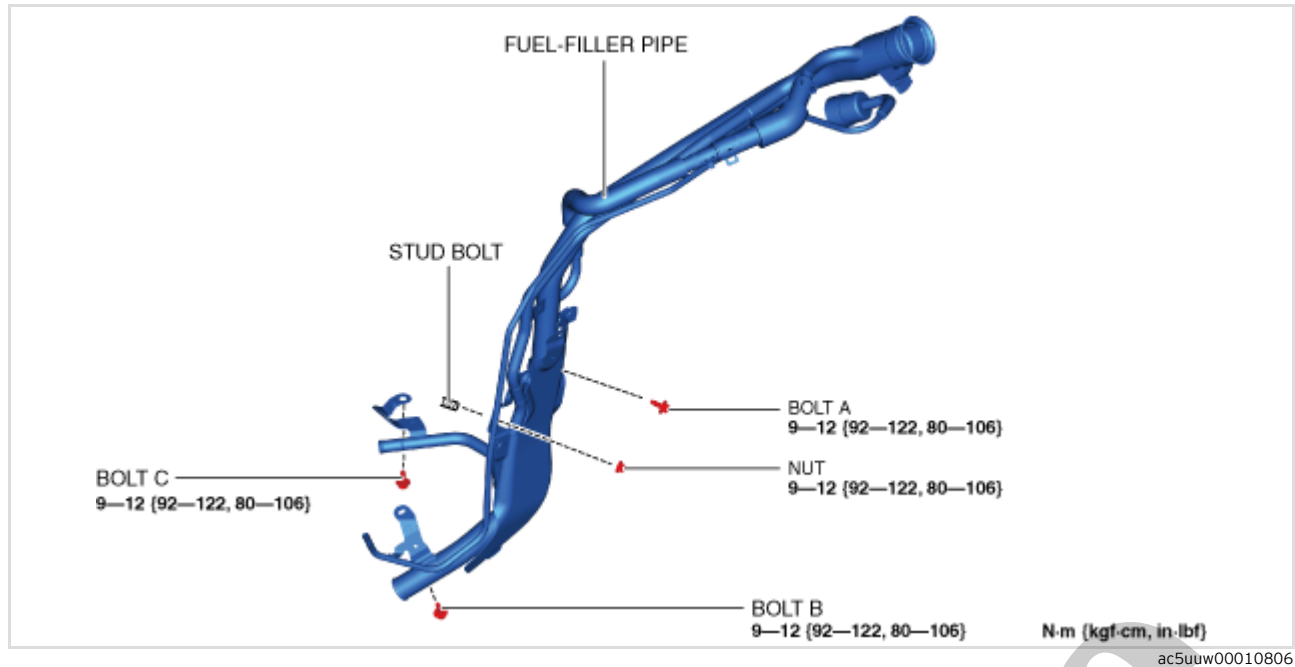


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1	Fuel-filler cap
2	Plate
3	Dust cover (See Dust Cover Removal Note.)
4	Joint hose (See Joint Hose Installation Note.)
5	Breather hose (See Breather Hose Installation Note.)
6	Evaporative hose No.1 (See Evaporative Hose No.1 Installation Note.)
7	Evaporative hose No.2
8	Plug
9	Fuel-filler pipe protector
10	Fuel-filler pipe (See Fuel-filler Pipe Removal Note.) (See Fuel-filler Pipe Installation Note.)
11	Evaporative hose No.3
12	Joint
13	Evaporative hose No.4

Dust Cover Removal Note

- 1.Remove the rear mudguard (LH). (See [MUDGUARD REMOVAL/INSTALLATION.](#))
- 2.Release the dust cover tab using a flathead screwdriver as shown in the figure.



2.Temporarily tighten bolt A.

3.Completely tighten bolt B.

4.Completely tighten bolt C.

5.Completely tighten bolt A.

6.Completely tighten the nut.

Evaporative Hose No.1 Installation Note

1.Align the marking and connect evaporative hose No.1 to the fuel-filler pipe as shown in the figure.

NON-RETURN VALVE INSPECTION [SKYACTIV-D 2.2]

SM2897523

id0114z781530

Warning

- Highly pressurized fuel may spray out if the fuel line is cut. Due to the following dangers occurring with a fuel spray, always complete the "Fuel Line Safety Procedure" to prevent the fuel from spraying.
 - Fuel may cause irritation if it comes in contact with skin and eyes.
 - If fuel ignites and causes a fire, it may lead to serious injury or death, and damage to property and facilities.
- A person charged with static electricity could cause a fire or explosion, resulting in death or serious injury. Before draining fuel, make sure to discharge static electricity by touching the vehicle body.

1. Perform the "Fuel Line Safety Procedure" referring to the "BEFORE SERVICE PRECAUTION". (See [BEFORE SERVICE PRECAUTION \[SKYACTIV-D 2.2\]](#).)
2. Remove the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION](#).)
3. Remove the rear seat cushion. (See [REAR SEAT CUSHION REMOVAL/INSTALLATION](#).)
4. Remove the fuel gauge sender unit. (See [FUEL GAUGE SENDER UNIT REMOVAL/INSTALLATION \[2WD\]](#).) (See [FUEL GAUGE SENDER UNIT REMOVAL/INSTALLATION \[AWD\]](#).)
5. Drain the fuel from the fuel tank to the position where the non-return valve is visible. (See [FUEL DRAINING PROCEDURE \[SKYACTIV-D 2.2\]](#).)

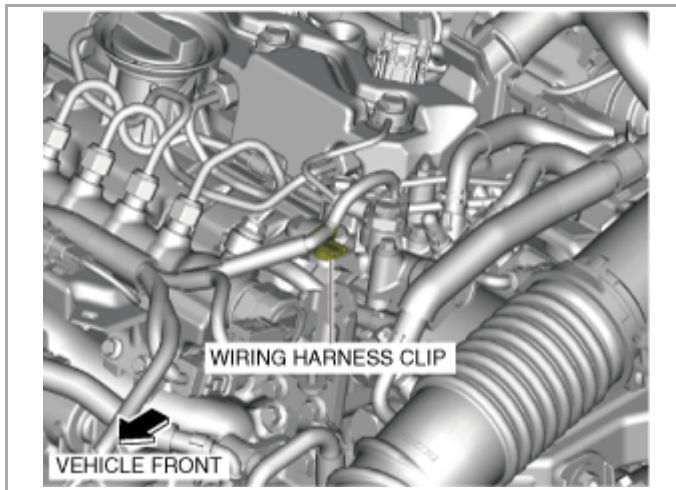
Note

- The non-return valve is built into the fuel tank.
- The non-return valve is normally closed by spring force.

6. Verify that the non-return valve is closed.

- If the non-return valve is left open or cannot open even though the non-return valve is pulled up with your finger, replace the fuel tank. (See [FUEL TANK REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

3. Disconnect the blow-by heater connector.
4. Set the turbocharger air inlet hose aside.
5. Disconnect the wiring harness clip shown in the figure.



6. Disconnect the CMP sensor connector. (See [CAMSHAFT POSITION \(CMP\) SENSOR REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))
7. Remove the fuel return pipe (fuel injector side) and cover. (See [FUEL INJECTOR REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))
8. Remove the fuel feed pipe. (See [SUPPLY PUMP REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))

5.Remove in the order shown in the figure.

6.Install in the reverse order of removal.

7.Perform the "Fuel Hose Installation Procedure" and "Fuel Line Air Bleeding" referring to the "AFTER SERVICE PRECAUTION". (See [AFTER SERVICE PRECAUTION \[SKYACTIV-D 2.2\].](#))