

- Mount special tool **2**.

Pressure testing tool (61029094000) (p. 386)

- Mount special tool **3** with nozzle code **0,60**.

Testing hose (61029093000) (p. 385)

- Position the hose end in a fuel can.

Guideline

Minimum size, fuel can	10 l (2.6 US gal)
------------------------	-------------------

- Switch on the ignition.
- Connect the diagnostics tool and start it.
- **"Actuator test" > "Execute function test of fuel pump control".**

Guideline

Maximum duration of the actuator test	3 min
---------------------------------------	-------

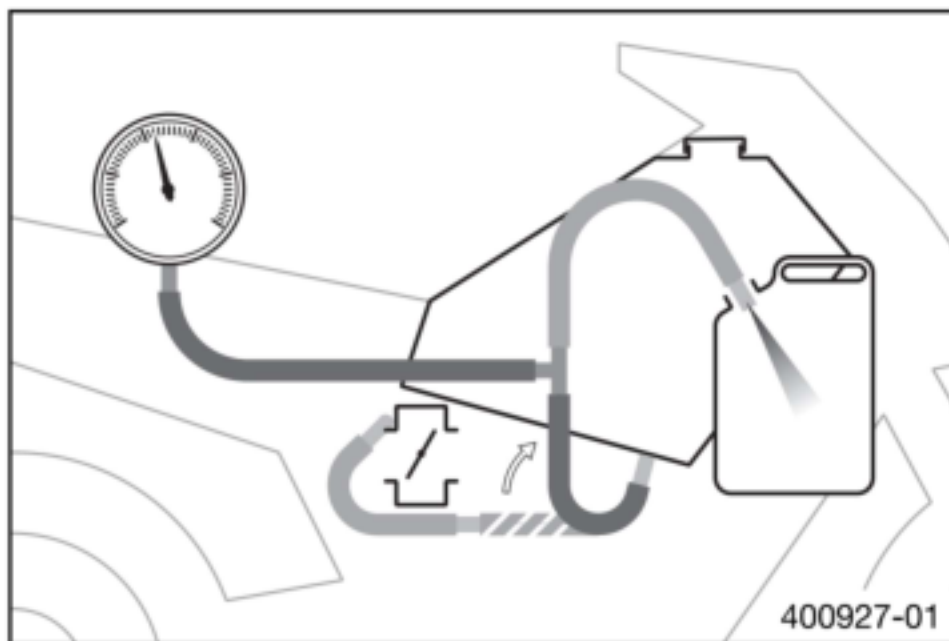
- Check the fuel pressure with the fuel tank filler cap closed.

Fuel pressure

When the fuel pump is active	2.8 ... 3.2 bar (41 ... 46 psi)
------------------------------	---------------------------------

» If the specification is not reached:

- Open fuel tank filler cap. (p. 92)
- Check the fuel tank breather.



- Check the fuel pressure with the fuel tank filler cap open.

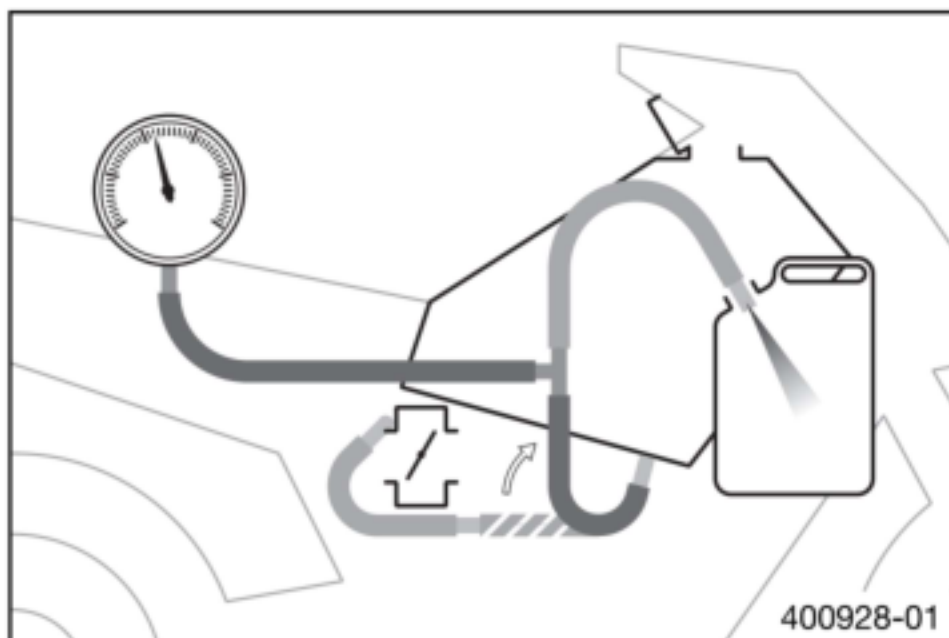
Fuel pressure

When the fuel pump is active	2.8 ... 3.2 bar (41 ... 46 psi)
------------------------------	---------------------------------

» If the specification is not reached:

- Check that the fuel line is clear.
- Change the fuel filter. (p. 101)
- Change the fuel pump. (p. 105)

- **"Actuator test" > Stop "Function test of fuel pump controller".**
- Remove the special tools.
- Join the fuel hose connection.



12.14 Changing the fuel screen



Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

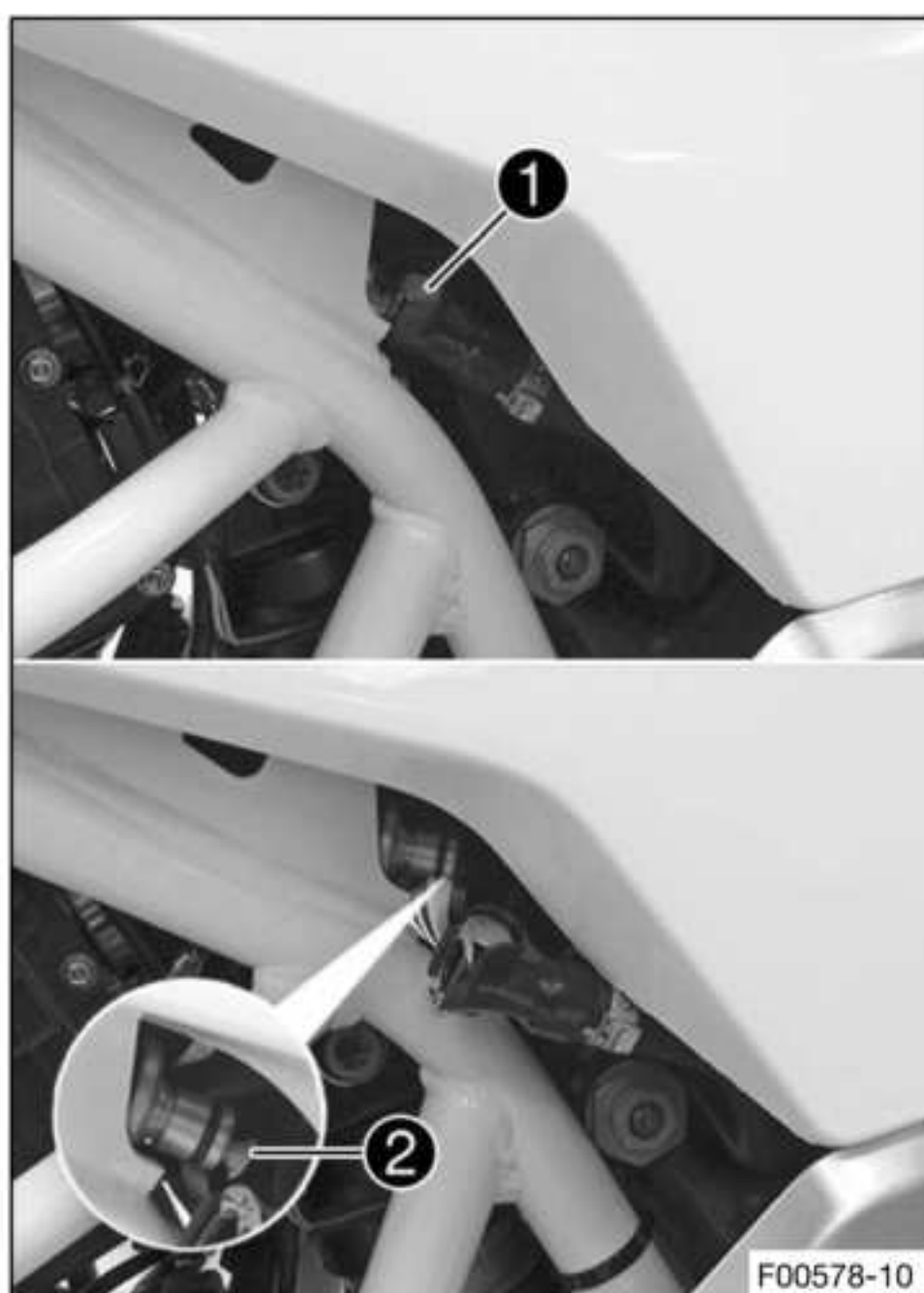
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.



Note

Environmental hazard Improper handling of fuel is a danger to the environment.

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



- Clean plug-in connection **1** of the fuel line thoroughly with compressed air.



Info

Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

- Disconnect plug-in connection **1** of the fuel line.
- Pull fuel screen **2** out of the connecting piece.
- Insert the new fuel screen all the way into the connecting piece.
- Lubricate the O-ring and connect plug-in connection of the fuel line.



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check the response.

12.15 Changing the fuel filter

**Danger**

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.

**Warning**

Danger of poisoning Fuel is poisonous and a health hazard.









- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.
- Keep fuels correctly in a suitable canister, and out of the reach of children.

**Note**


Environmental hazard Improper handling of fuel is a danger to the environment.

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Preparatory work

- Switch off the ignition by turning the ignition key to the **OFF**  position.
- Remove the seat. ( p. 93)
- Disconnect the 12-V battery. ( p. 141)
- Take off the side cover. ( p. 93)
- Remove the air filter box. ( p. 87)
- Remove the rear fairing. ( p. 96)
- Remove the rear left side cover. ( p. 95)
- Remove the rear right side cover. ( p. 94)
- Drain the fuel from the fuel tank into a suitable container.

Main work

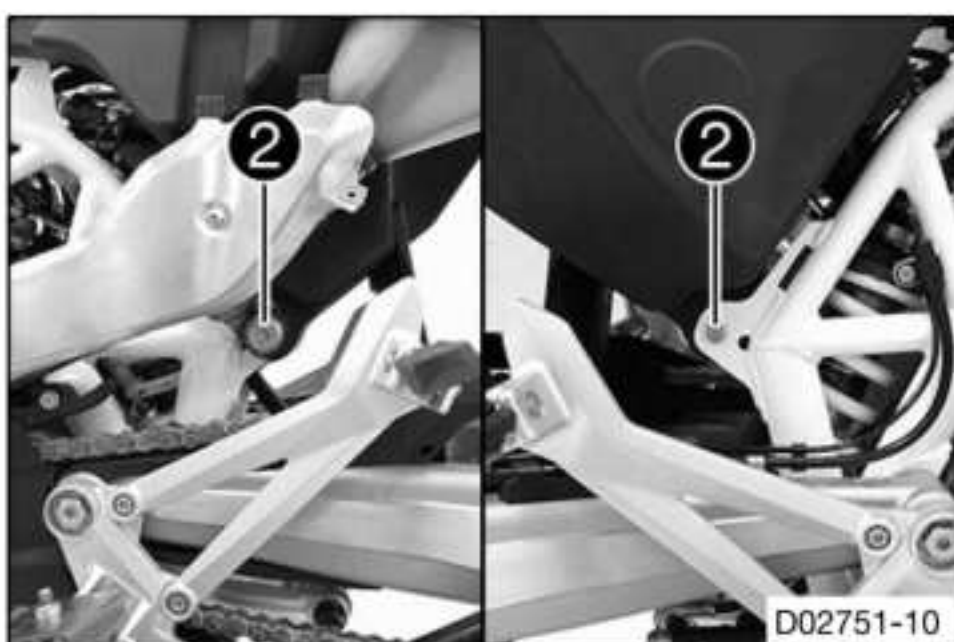
- Remove screws .



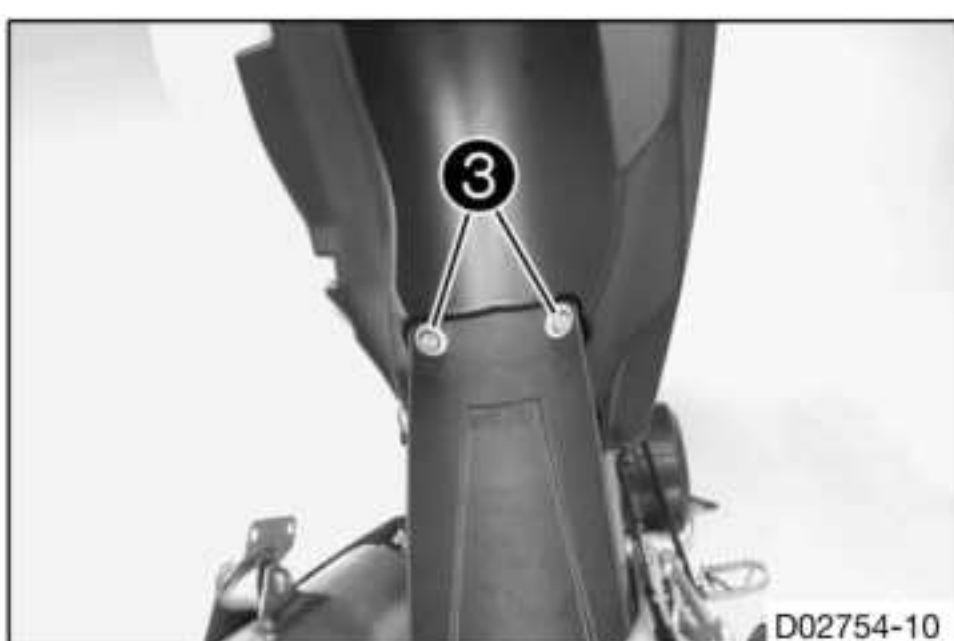
12 FUEL TANK, SEAT, TRIM



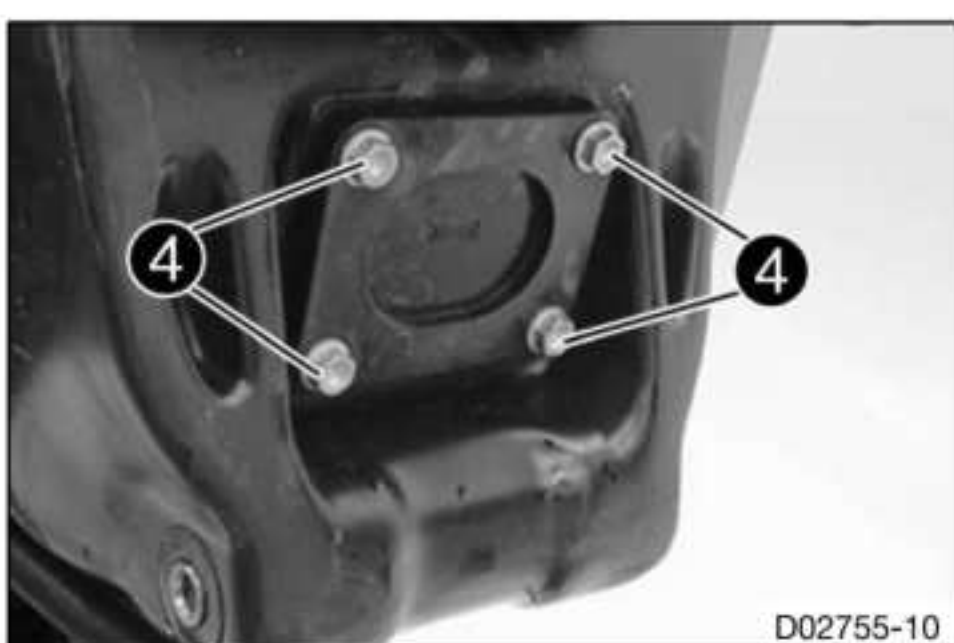
- Remove the cable ties.



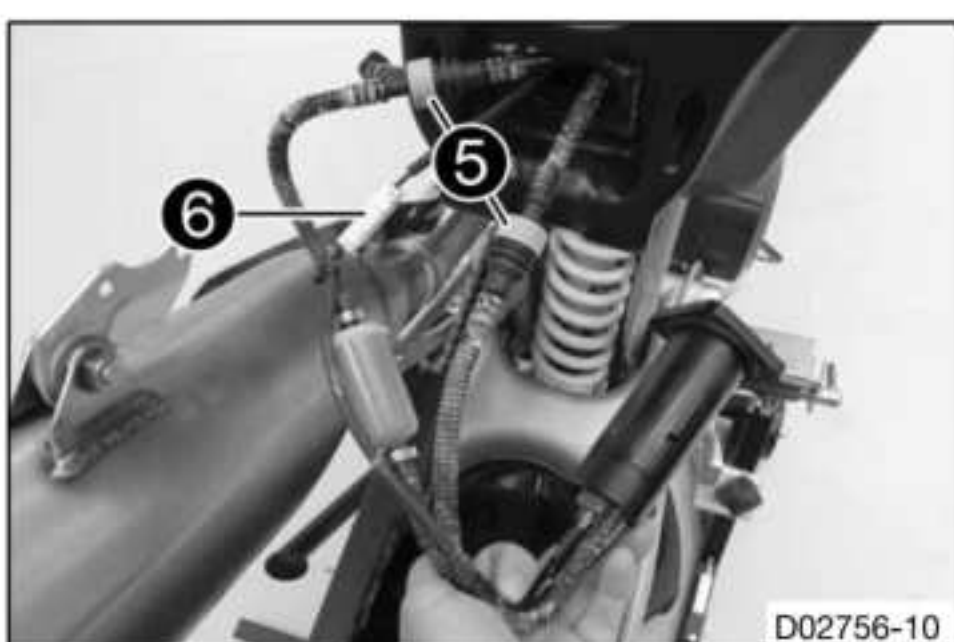
- Remove screws ② on both sides.
- Swing the rear end upward and secure it.



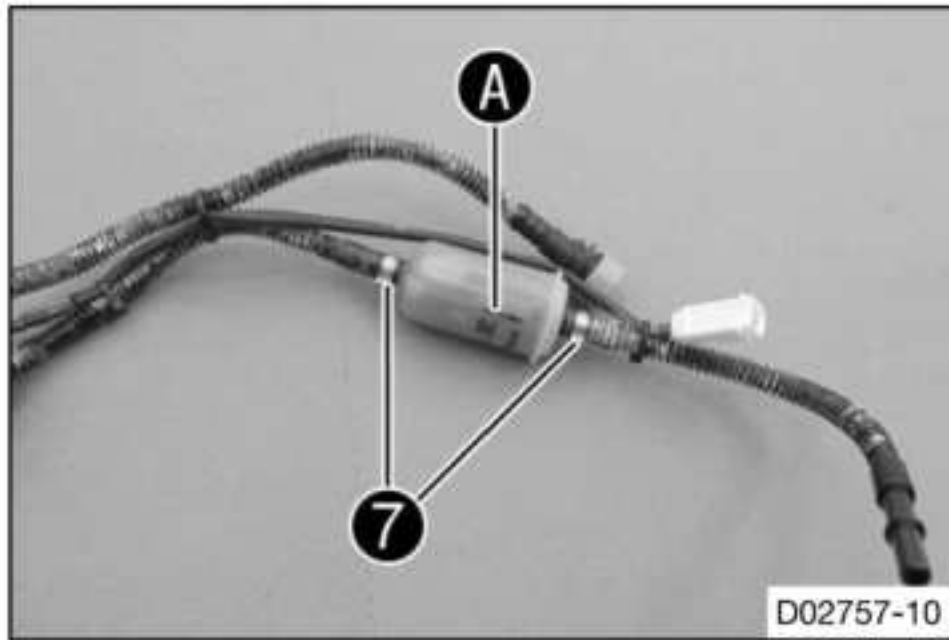
- Remove screws ③ and take off the splash protector.



- Remove screws ④.
- Pull out the fuel pump.

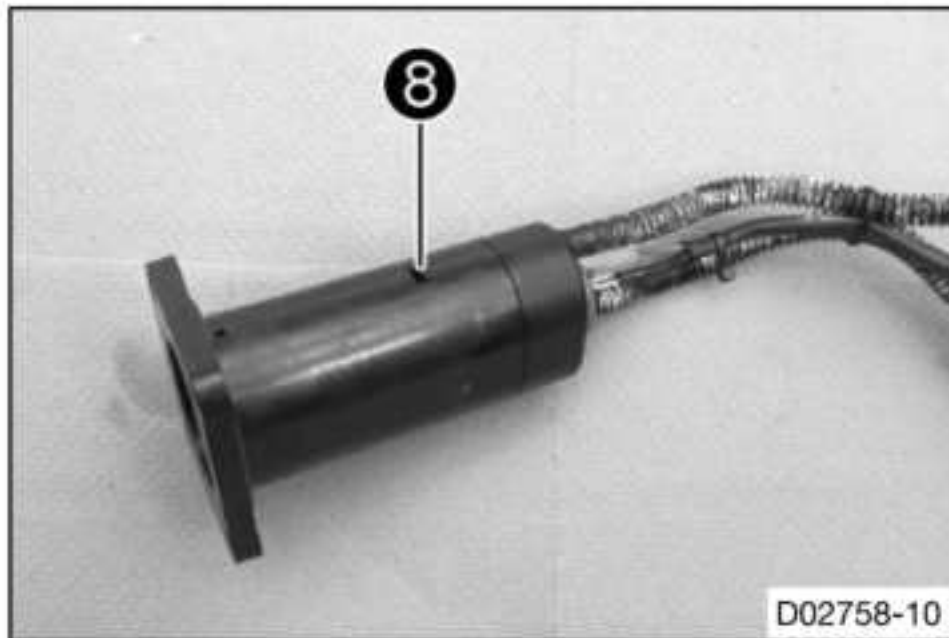


- Disconnect both fuel hose connections ⑤.
- Disconnect plug-in connector ⑥. Remove fuel pump.



- Remove hose clamps 7.
- Remove fuel filter.
- Mount the new fuel filter.
- ✓ Arrow A points away from the fuel pump.
- Mount hose clamps 7.

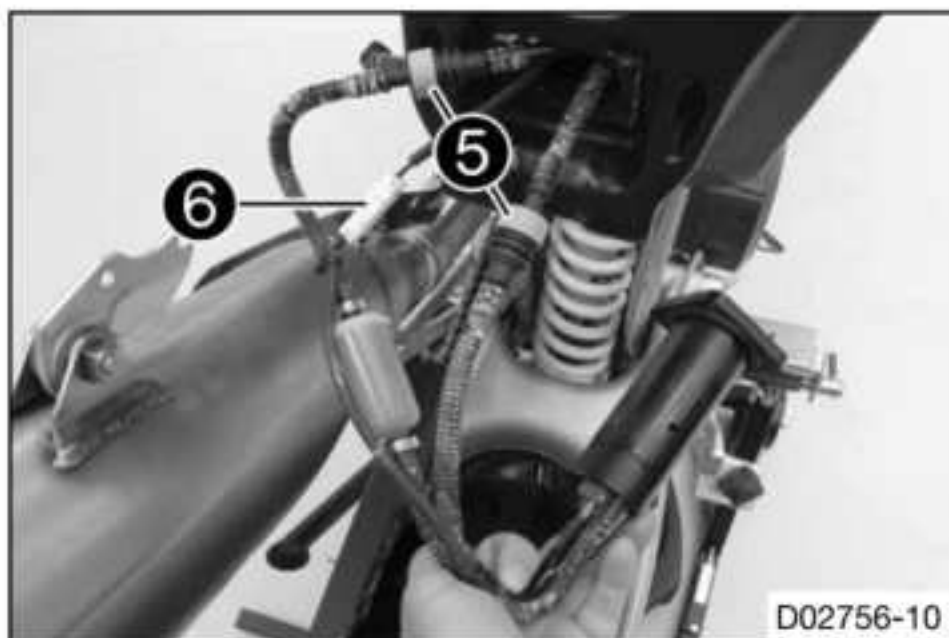
Hose clamp plier (60029057000) (p. 385)



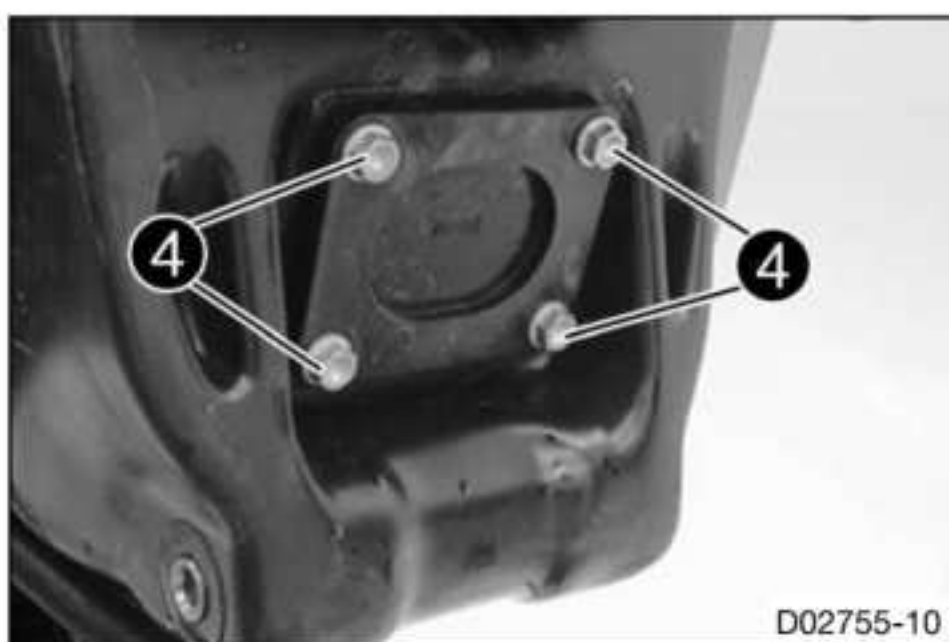
- Press locking mechanism 8 on both sides.
- Pull off the fuel pump housing.



- Change fuel screen 9.
- Mount the fuel pump housing.



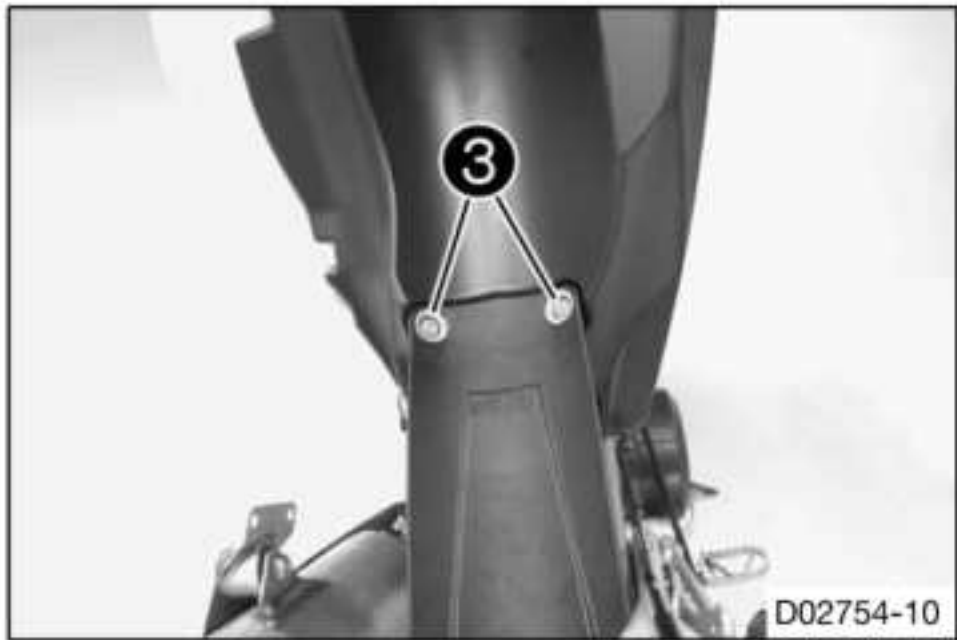
- Connect both fuel hose connections 5.
- Join plug-in connector 6.



- Position the fuel pump.
- Mount and tighten screws 4.

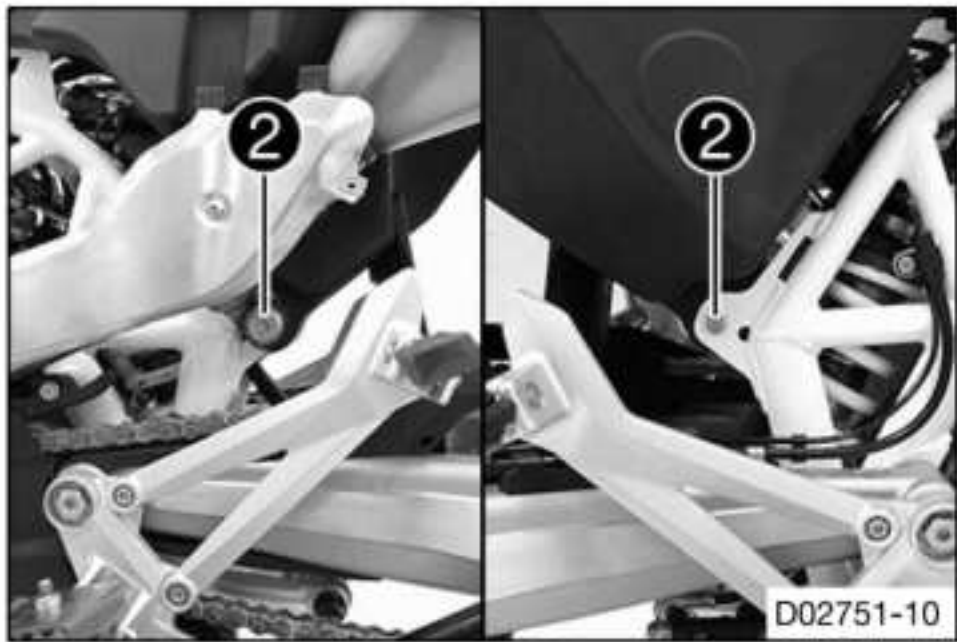
Guideline

Screw, fuel pump	M5	4 Nm (3 lbf ft)
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- Position the splash protector. Mount and tighten screws 3.
- Guideline

Remaining screws, chassis	M5	4 Nm (3 lbf ft)
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- Position the rear end.
 - Mount and tighten screws 2 on both sides.
- Guideline

Screw, fuel tank, bottom	M8	25 Nm (18.4 lbf ft) Loctite®243™
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- Mount the cable ties.



- Mount and tighten screws 1.
- Guideline

Screw, main silencer holder on fuel tank	M8	25 Nm (18.4 lbf ft)
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Finishing work

- Install the rear right side cover. (📖 p. 95)
- Install the rear left side cover. (📖 p. 96)
- Fit the rear fairing. (📖 p. 97)
- Install the air filter box. (📖 p. 89)
- Mount the side cover. (📖 p. 94)
- Connect the 12-V battery. (📖 p. 142)
- Mount the seat. (📖 p. 93)
- Adjust the clock. (📖 p. 167)

12.16 Changing the fuel pump

**Danger****Fire hazard** Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.









**Warning****Danger of poisoning** Fuel is poisonous and a health hazard.

- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.
- Keep fuels correctly in a suitable canister, and out of the reach of children.


**Note****Environmental hazard** Improper handling of fuel is a danger to the environment.

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Preparatory work

- Switch off the ignition by turning the ignition key to the **OFF**  position.
- Remove the seat. ( p. 93)
- Disconnect the 12-V battery. ( p. 141)
- Take off the side cover. ( p. 93)
- Remove the air filter box. ( p. 87)
- Remove the rear fairing. ( p. 96)
- Remove the rear left side cover. ( p. 95)
- Remove the rear right side cover. ( p. 94)
- Drain the fuel from the fuel tank into a suitable container.

Main work

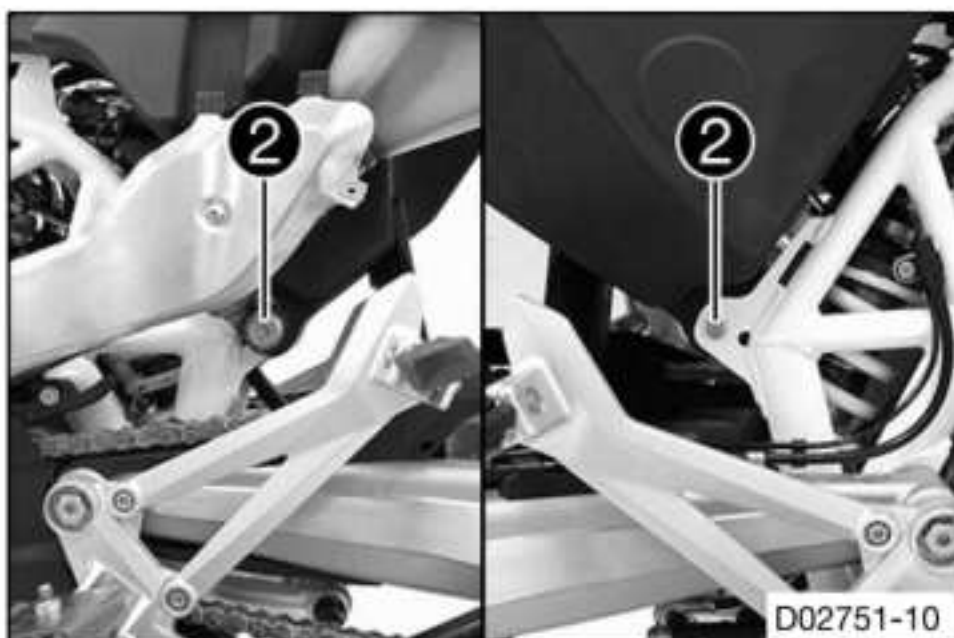
- Remove screws .



12 FUEL TANK, SEAT, TRIM



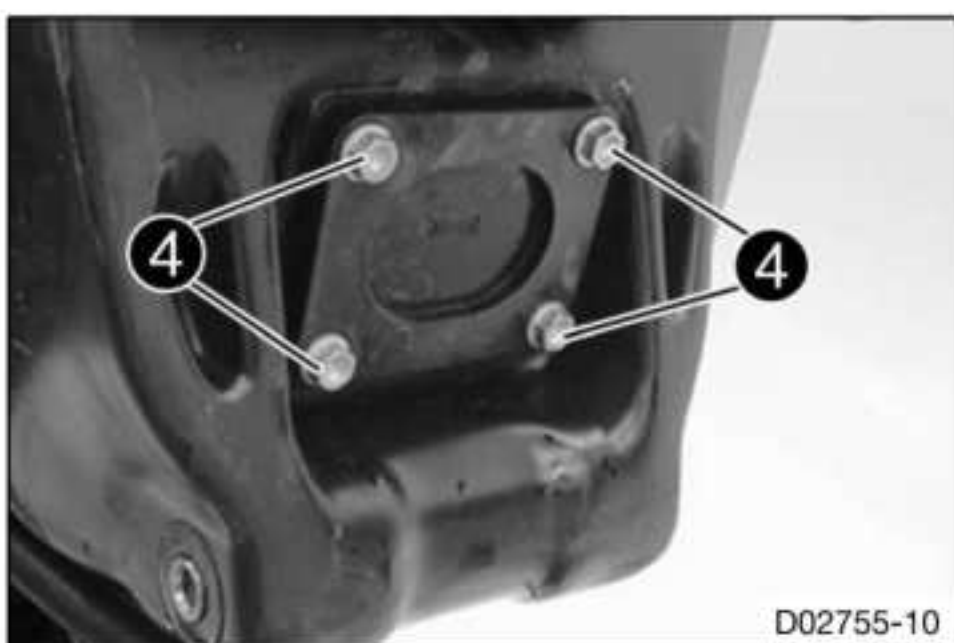
- Remove the cable ties.



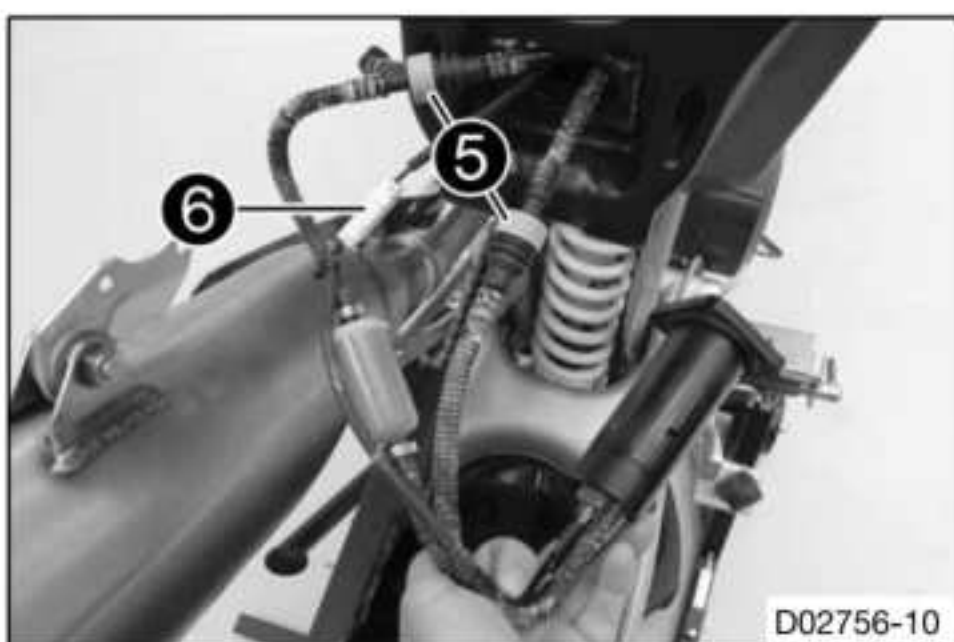
- Remove screws ② on both sides.
- Swing the rear end upward and secure it.



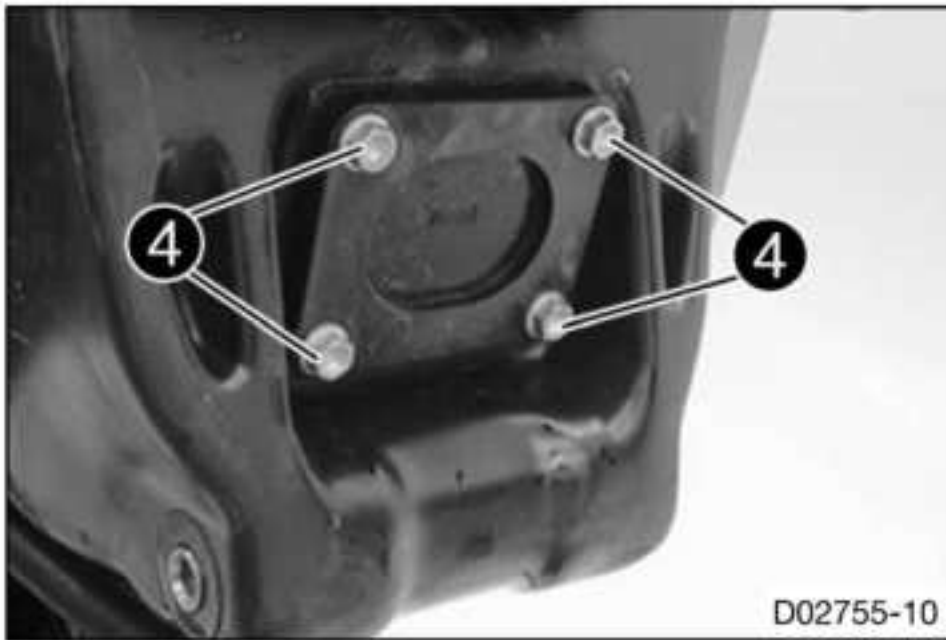
- Remove screws ③ and take off the splash protector.



- Remove screws ④.
- Pull out the fuel pump.



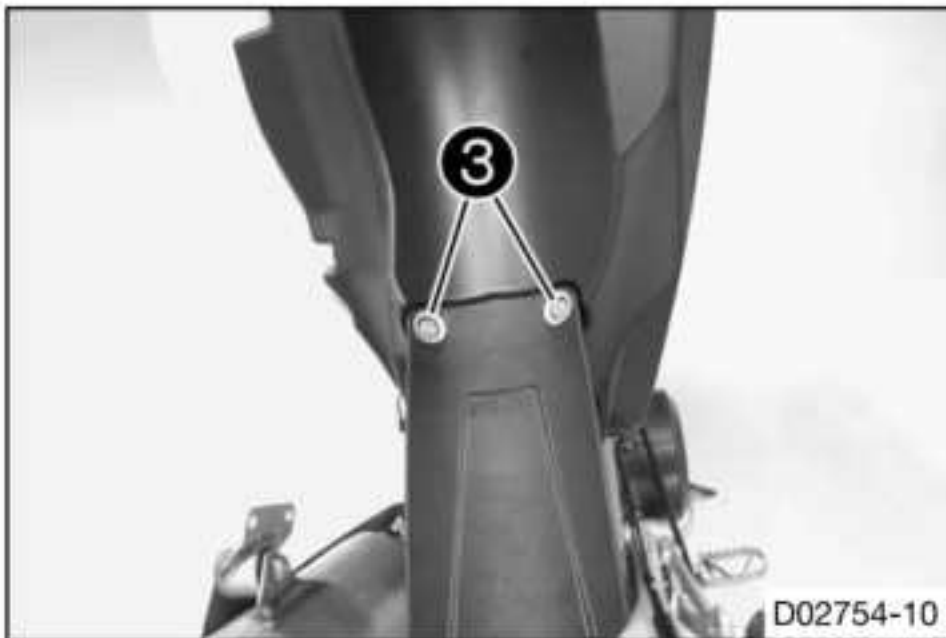
- Disconnect both fuel hose connections ⑤.
- Disconnect plug-in connector ⑥. Disconnect the fuel pump.
- Connect new fuel pump, connecting both fuel hose connections ⑤.
- Join plug-in connector ⑥.



- Position the fuel pump.
- Mount and tighten screws ④.

Guideline

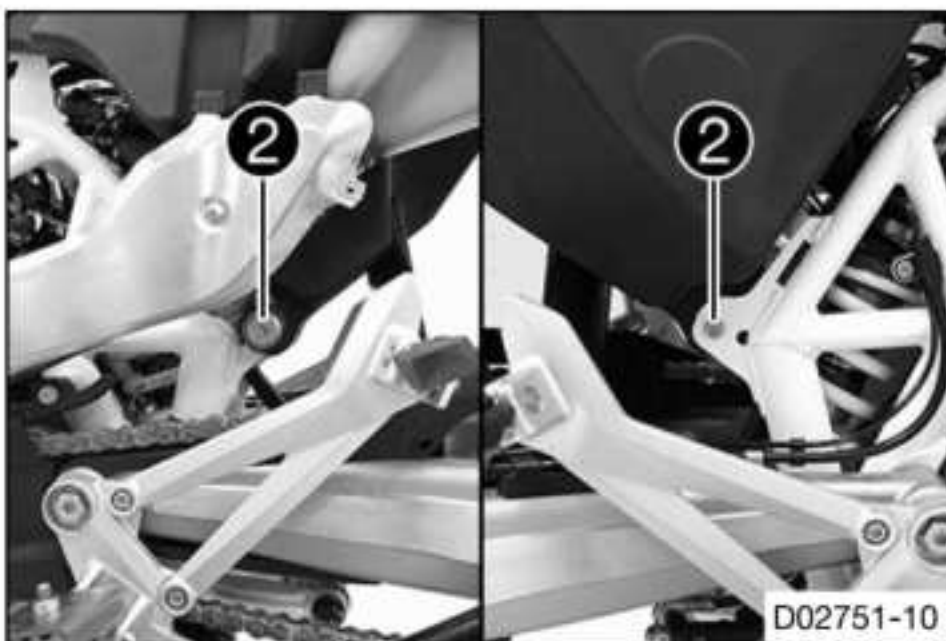
Screw, fuel pump	M5	4 Nm (3 lbf ft)
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- Position the splash protector. Mount and tighten screws ③.

Guideline

Remaining screws, chassis	M5	4 Nm (3 lbf ft)
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- Position the rear end.
- Mount and tighten screws ② on both sides.

Guideline

Screw, fuel tank, bottom	M8	25 Nm (18.4 lbf ft) Loctite®243™
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- Mount the cable ties.



- Mount and tighten screws ①.

Guideline

Screw, main silencer holder on fuel tank	M8	25 Nm (18.4 lbf ft)
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Finishing work

- Install the rear right side cover. (📖 p. 95)
- Install the rear left side cover. (📖 p. 96)
- Fit the rear fairing. (📖 p. 97)

12 FUEL TANK, SEAT, TRIM

- Install the air filter box. (📖 p. 89)
- Mount the side cover. (📖 p. 94)
- Connect the 12-V battery. (📖 p. 142)
- Mount the seat. (📖 p. 93)
- Adjust the clock. (📖 p. 167)