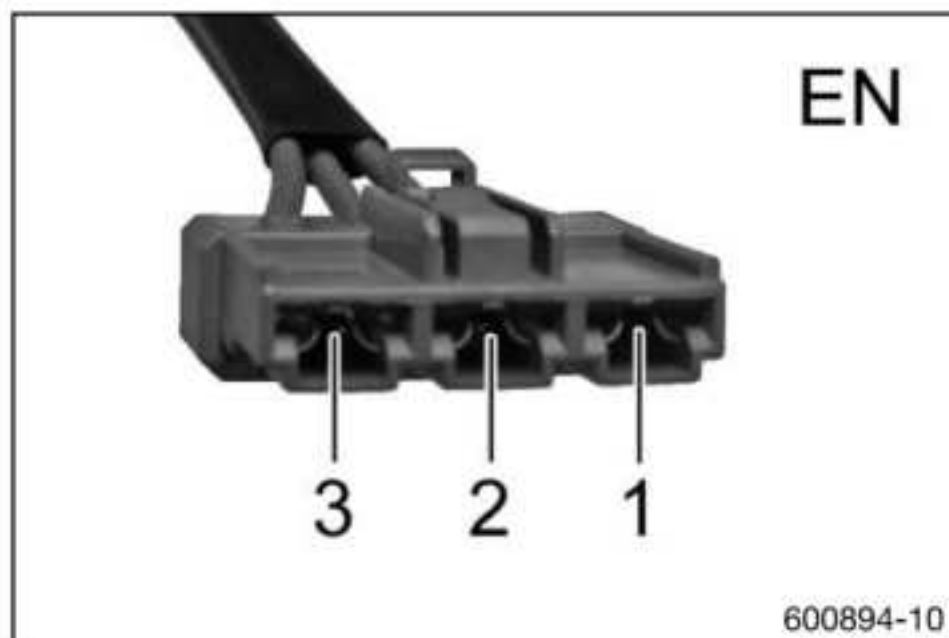


Resistance	$\infty \Omega$
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- » If the indicated value does not correspond to the setpoint value:
 - Change the stator.



Stator winding measurement I - check voltage.

- **V** Measure the voltage between the specified points.
Stator, connector **EN** pin 1 – Stator, connector **EN** pin 2

i Info
The results of the measurements on the individual coils must not deviate significantly.

Alternator	
Alternating voltage stator winding at 4000 rpm: 20 °C (68 °F)	$\geq 50 \text{ V}$

- » If the indicated value does not correspond to the setpoint value:
 - Change the stator.

Stator winding measurement II - check voltage.

- **V** Measure the voltage between the specified points.
Stator, connector **EN** pin 1 – Stator, connector **EN** pin 3

i Info
The results of the measurements on the individual coils must not deviate significantly.

Alternator	
Alternating voltage stator winding at 4000 rpm: 20 °C (68 °F)	$\geq 50 \text{ V}$

- » If the indicated value does not correspond to the setpoint value:
 - Change the stator.

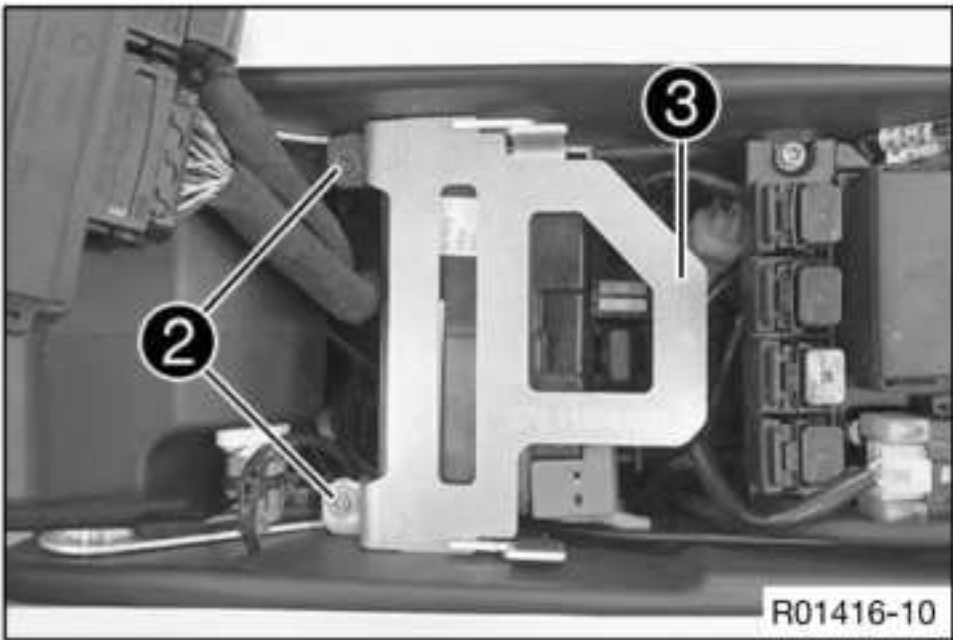
Stator winding measurement III - check voltage.

- **V** Measure the voltage between the specified points.
Stator, connector **EN** pin 2 – Stator, connector **EN** pin 3

i Info
The results of the measurements on the individual coils must not deviate significantly.

Alternator	
Alternating voltage stator winding at 4000 rpm: 20 °C (68 °F)	$\geq 50 \text{ V}$

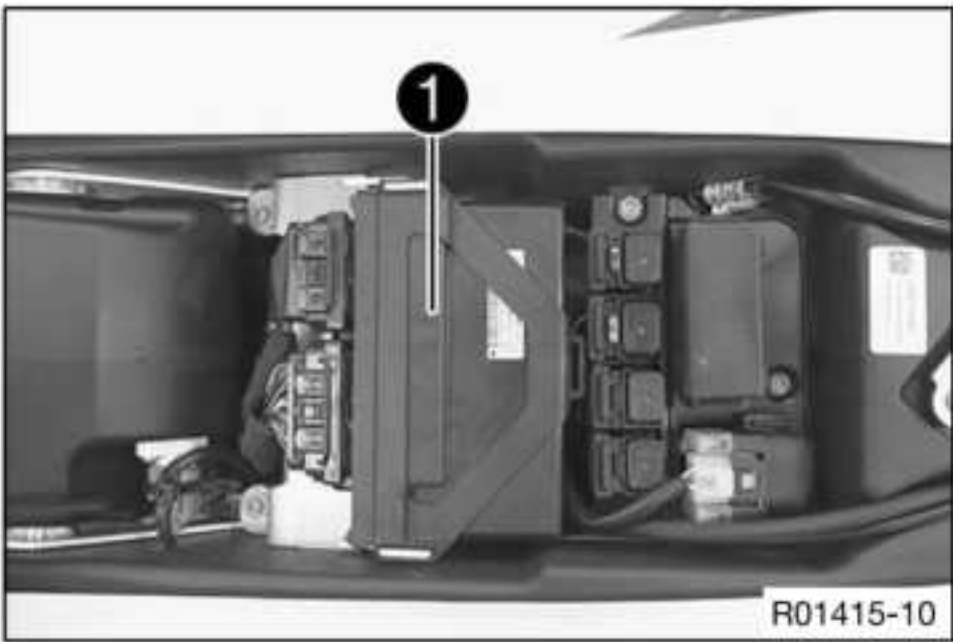
- » If the indicated value does not correspond to the setpoint value:
 - Change the stator.



- Mount the positive terminal cover.
- Position retaining bracket ③.
- Mount and tighten screws ②.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Mount engine electronics control unit ①.

Finishing work

- Mount the seat. (p. 93)

23.2 Ignition coil - checking the primary winding

Preparatory work

- Remove the seat. (p. 93)
- Take off the side cover. (p. 93)

Main work

- Disconnect ignition coil 1, cylinder 1.

Ignition coil, cylinder 1 - check the primary winding resistance.

- Ω Measure the resistance between the specified points.
Ignition coil pin 1 – Ignition coil pin 2

Ignition coil	
Primary winding resistance at: 20 °C (68 °F)	1.105 ... 1.495 Ω

» If the displayed value does not correspond to nominal value:

- Change the ignition coil.

- Disconnect ignition coil 2, cylinder 1.

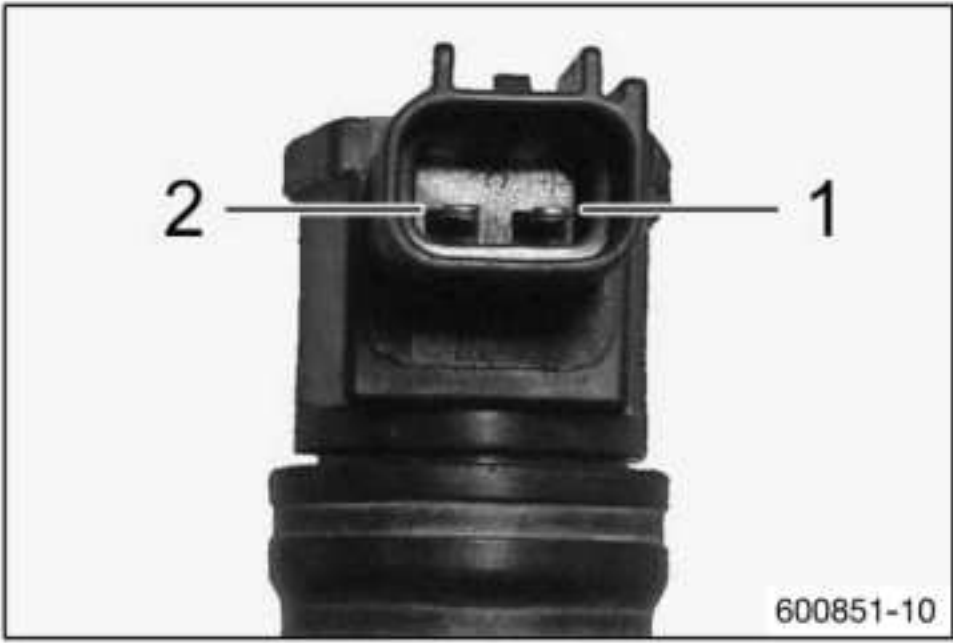
Ignition coil, cylinder 1 - check the primary winding resistance.

- Ω Measure the resistance between the specified points.
Ignition coil pin 1 – Ignition coil pin 2

Ignition coil	
Primary winding resistance at: 20 °C (68 °F)	1.105 ... 1.495 Ω

» If the displayed value does not correspond to nominal value:

- Change the ignition coil.



Finishing work

- Mount the side cover. (📖 p. 94)
- Mount the seat. (📖 p. 93)



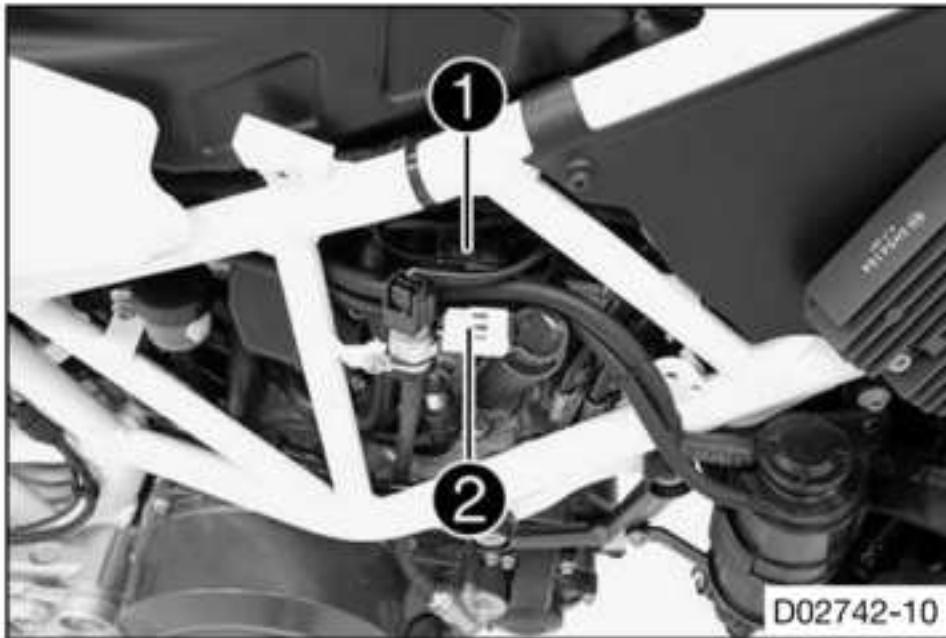
23.3 Changing the spark plugs

Preparatory work

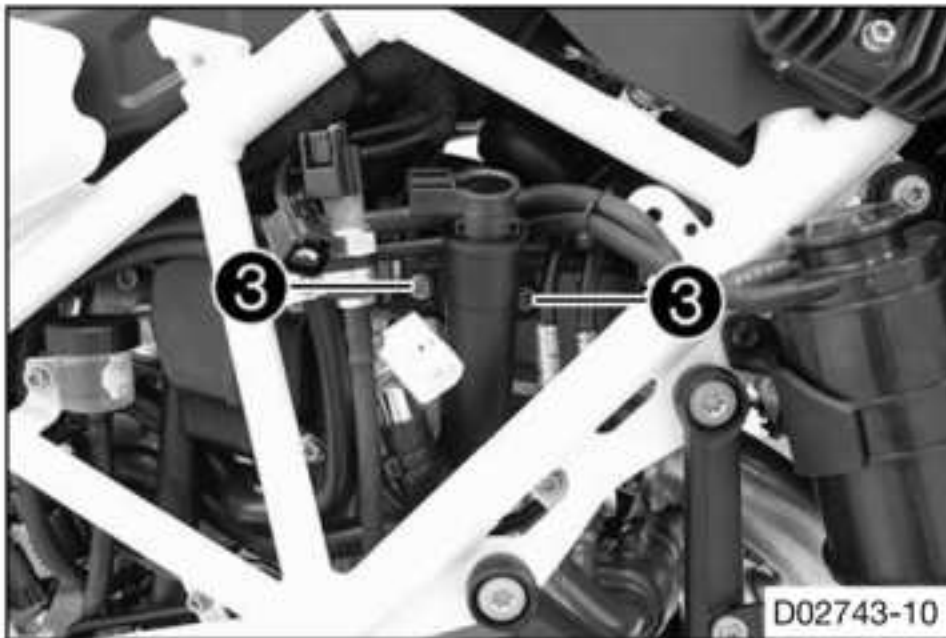
- Remove the seat. (📖 p. 93)
- Take off the side cover. (📖 p. 93)

Main work

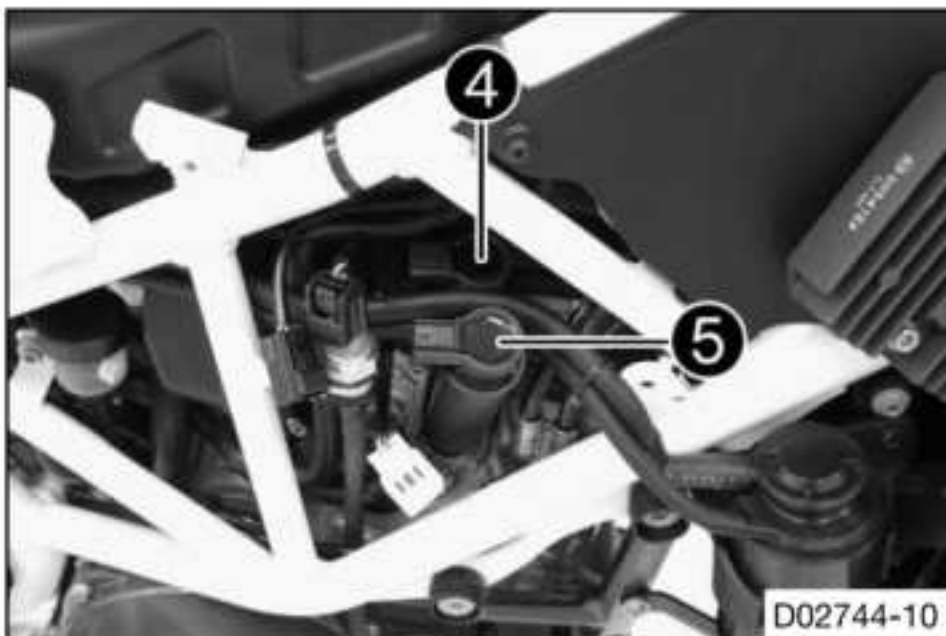
- Unplug connectors ① and ② of the ignition coils.



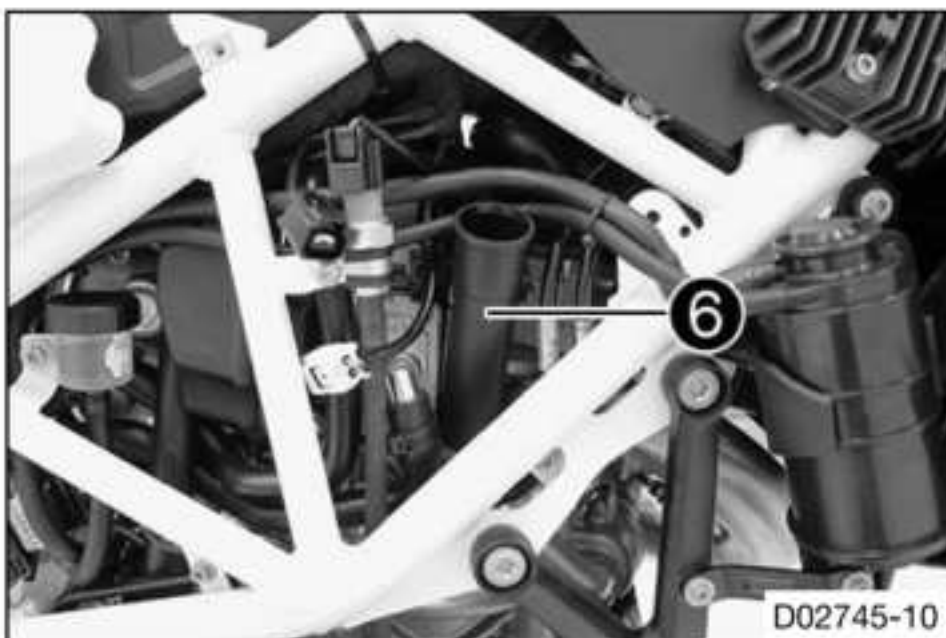
- Remove screws ③.

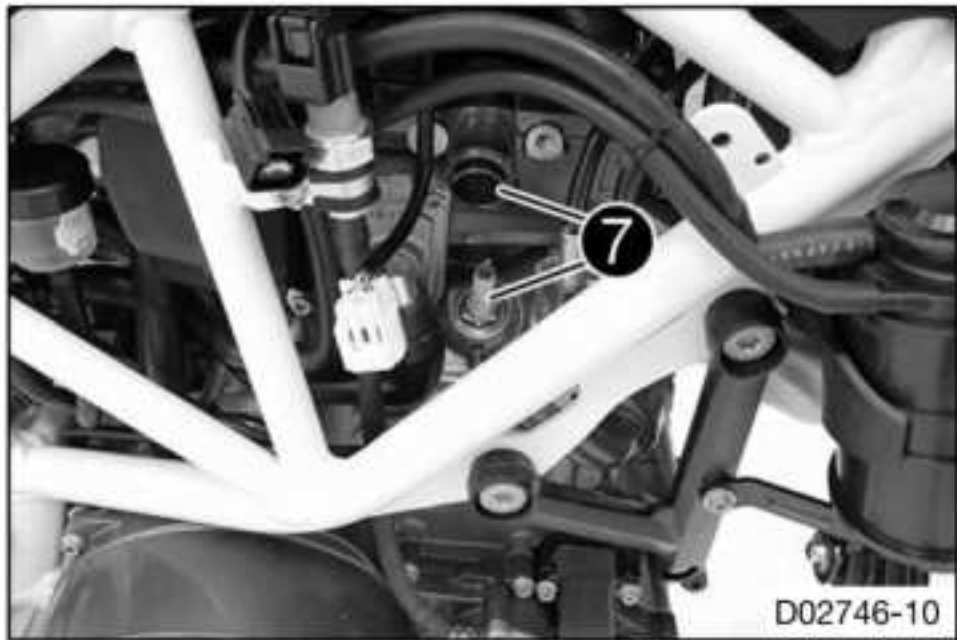


- Pull the spark plug shaft lightly to the side.
- Remove ignition coils ④ and ⑤.



- Remove spark plug shaft ⑥.





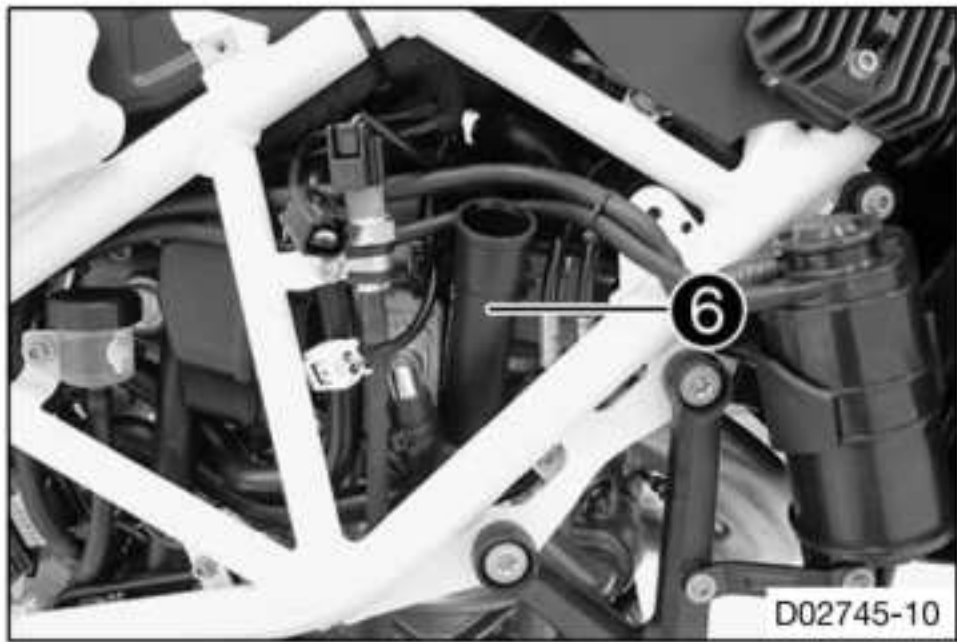
- Remove spark plugs 7 using the special tool.

Spark plug wrench (75029172000) (p. 391)

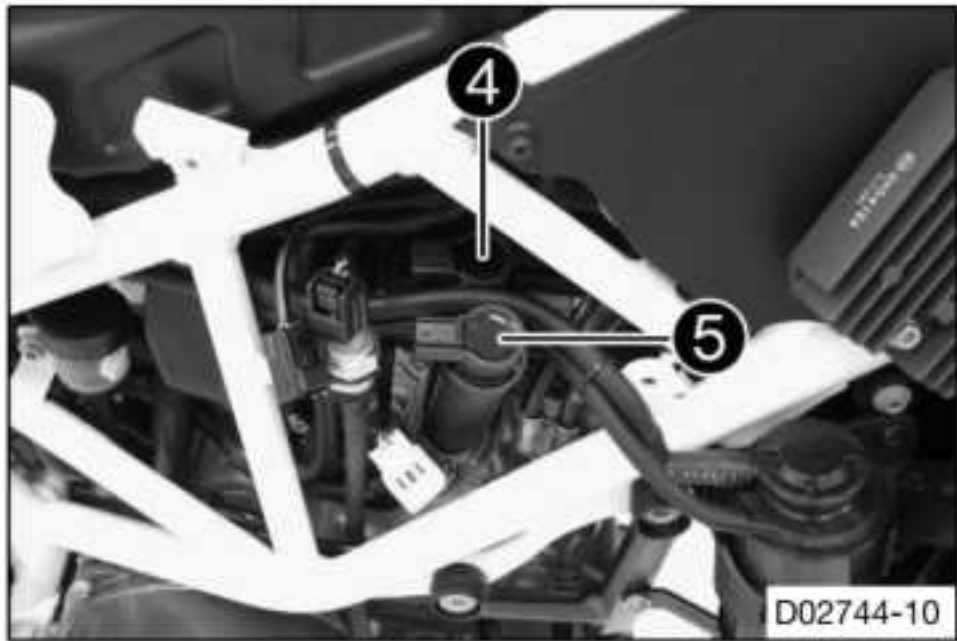
- Mount and tighten the new spark plugs using the special tool.
Guideline

Spark plug inside	M12x1.25	18 Nm (13.3 lbf ft)
Spark plug outside	M10x1	11 Nm (8.1 lbf ft)

Spark plug wrench (75029172000) (p. 391)

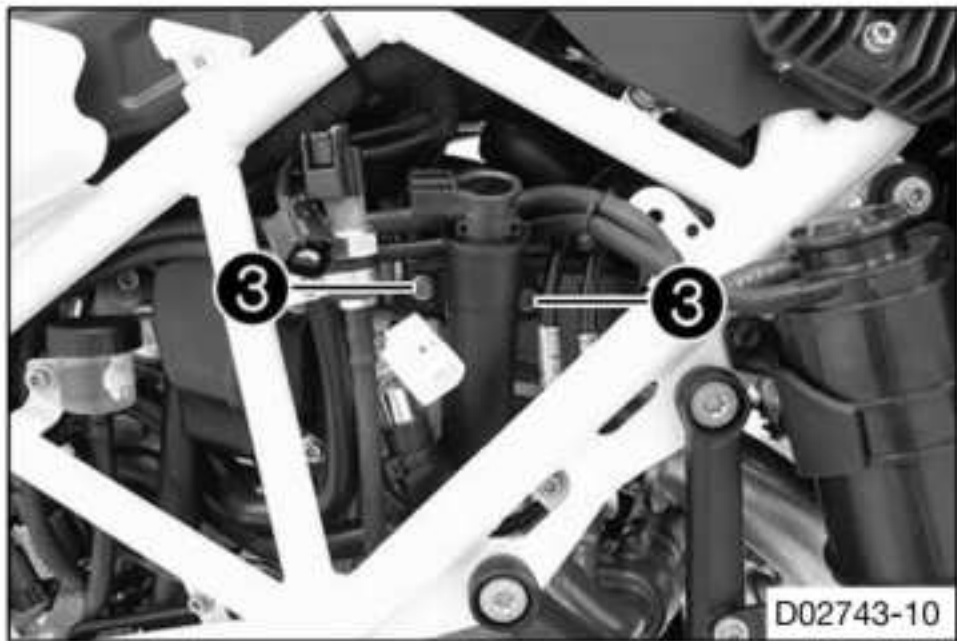


- Position spark plug shaft 6.



- Position ignition coils 4 and 5.

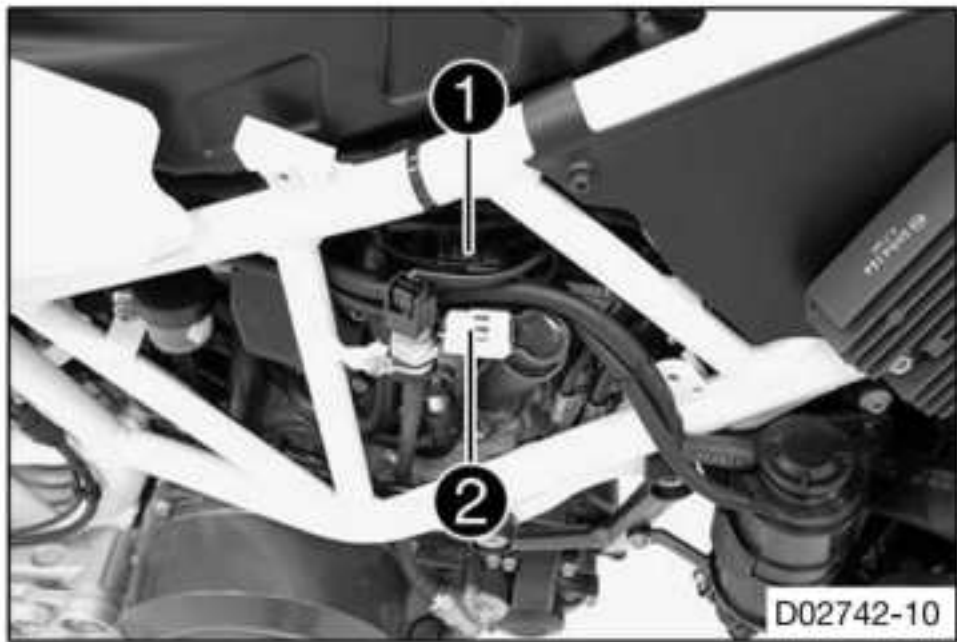
i Info
Ensure that the ignition coils are seated correctly.



- Mount and tighten screws 3.

Guideline

Screw, ignition coil	M6	10 Nm (7.4 lbf ft)
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- Plug in connectors 1 and 2 of the ignition coils.
✓ The cable with the white marking is connected to the outer ignition coil.

Finishing work

- Mount the side cover. (p. 94)
- Mount the seat. (p. 93)

24.1 Checking the valve clearance

Preparatory work

- Raise the motorcycle with the work stand. (p. 14)
- Remove the seat. (p. 93)
- Take off the side cover. (p. 93)
- Remove the air filter box. (p. 87)

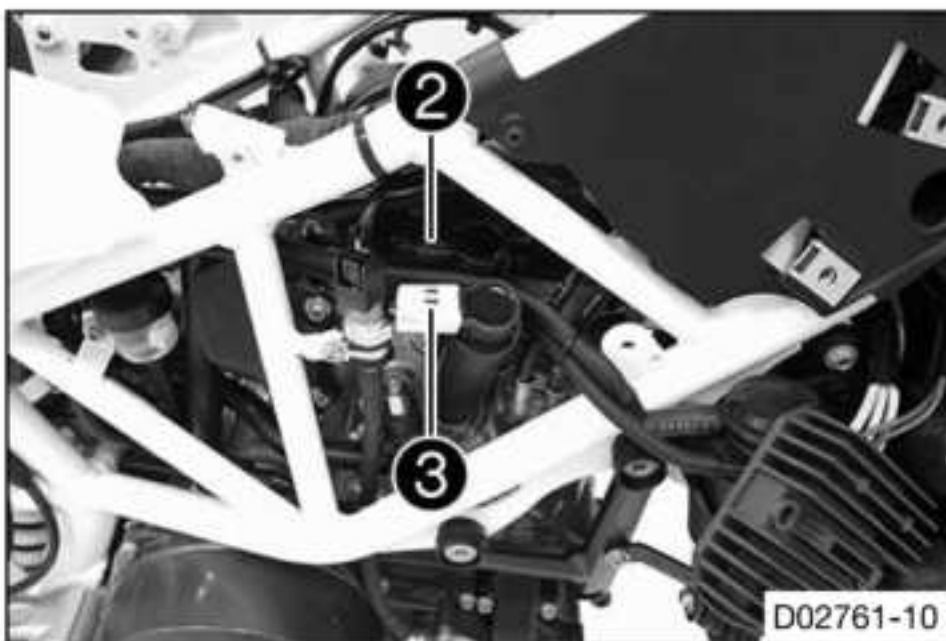


Main work

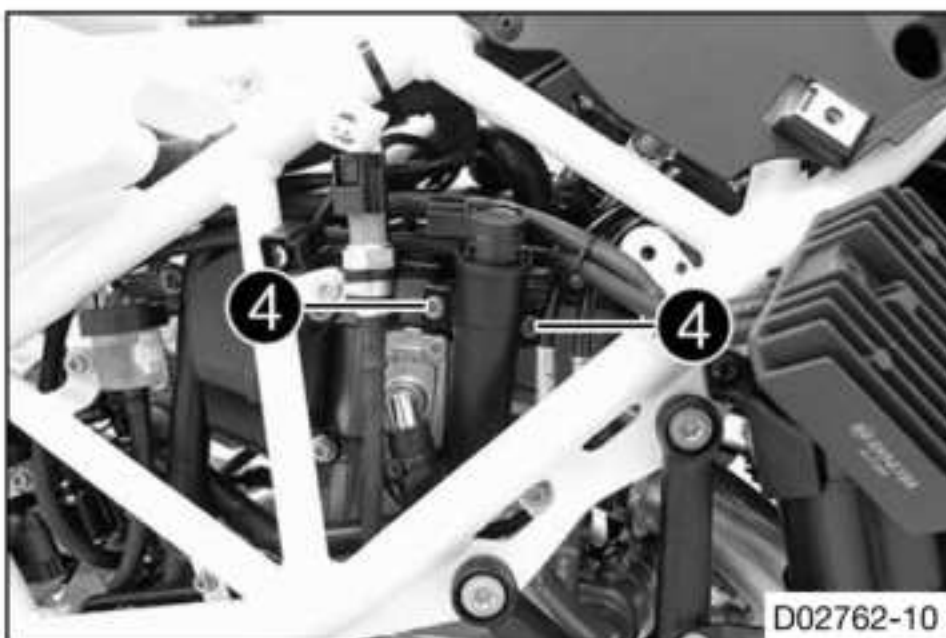
- Loosen the spring-loaded band-type clamp ① using the special tool.

Spring band clamps plier (60029057100) (p. 385)

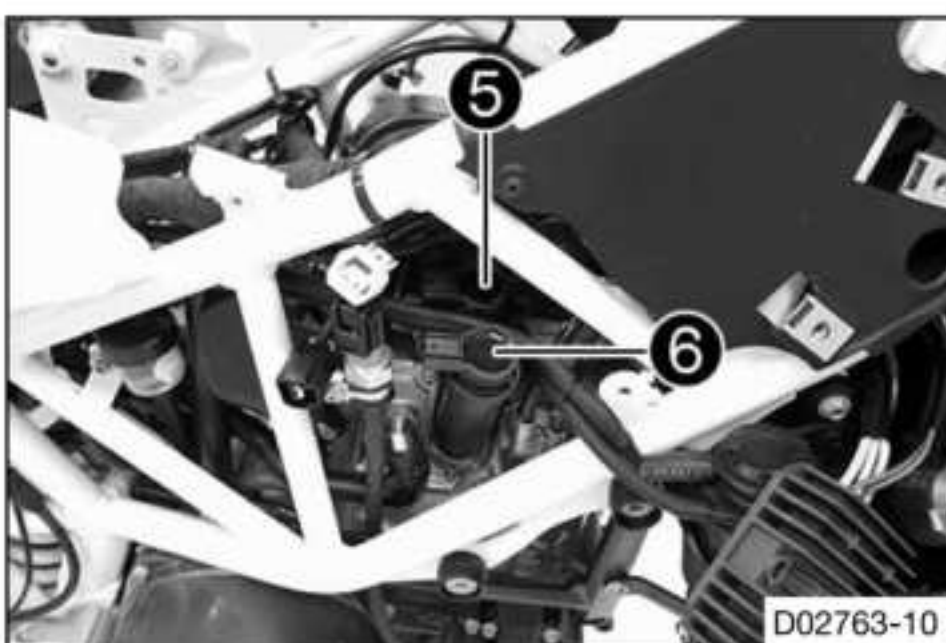
- Pull off the air release hose.



- Unplug connectors ② and ③ of the ignition coils.

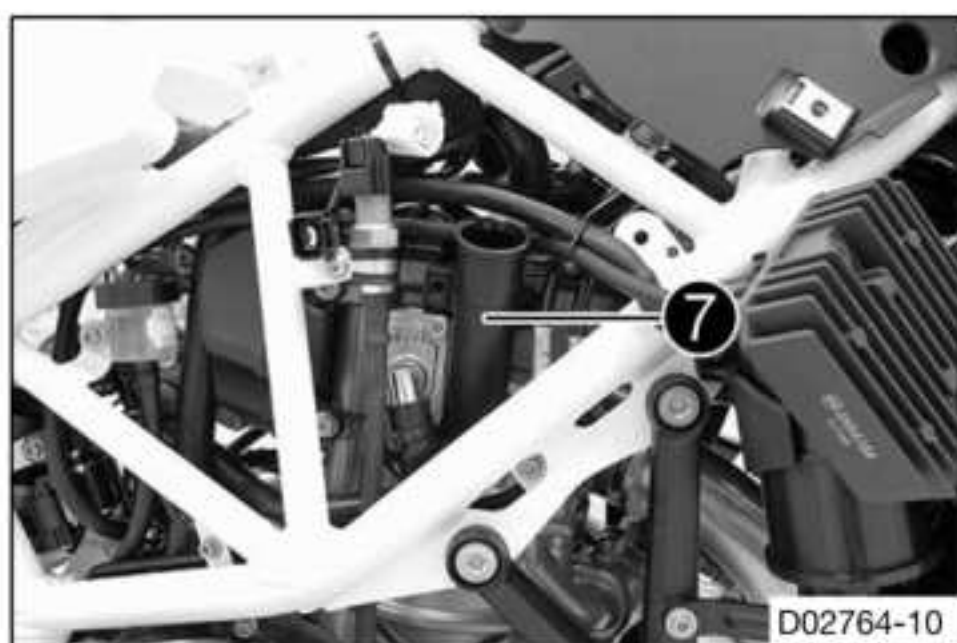


- Remove screws ④.

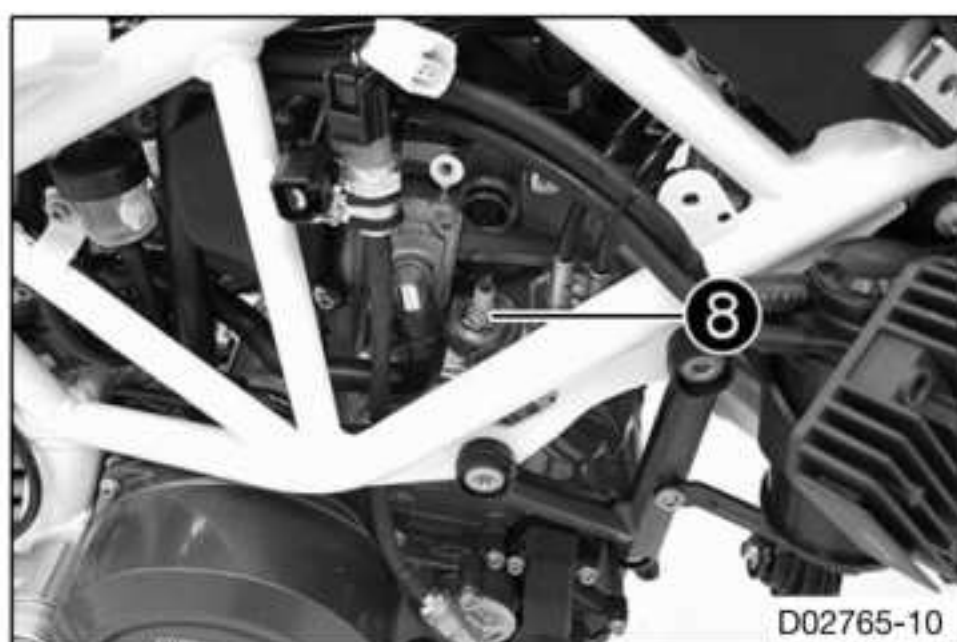


- Pull the spark plug shaft lightly to the side.
- Remove ignition coils ⑤ and ⑥.

24 CYLINDER HEAD



- Remove spark plug shaft **7**.

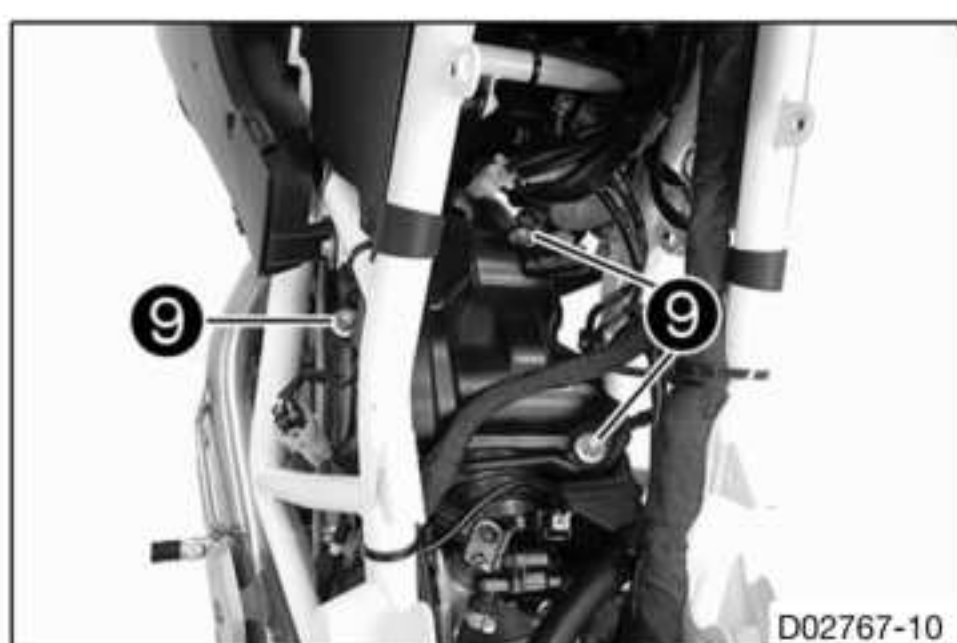


- Remove spark plug **8** using the special tool.

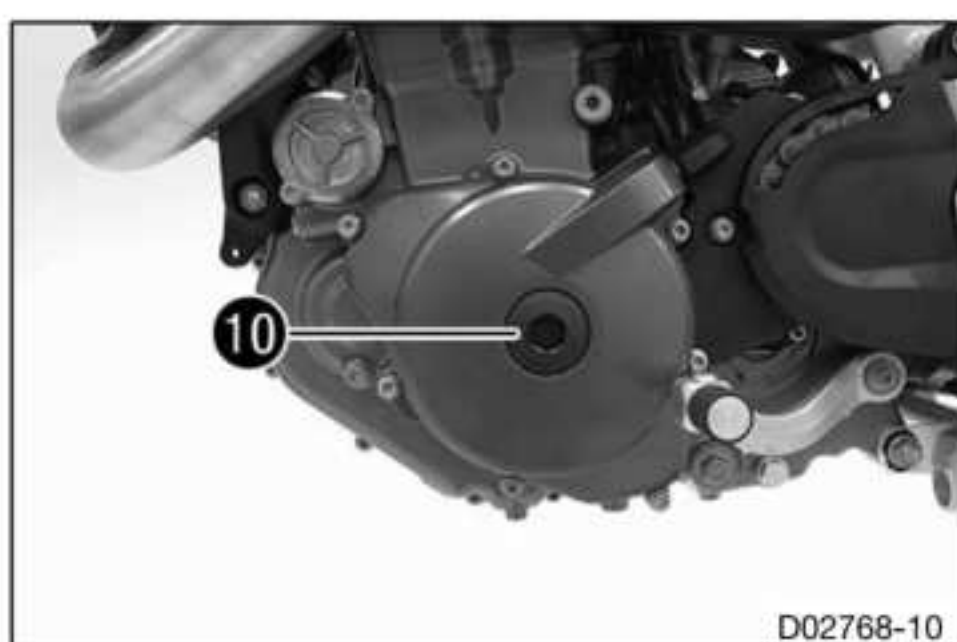
Spark plug wrench (75029172000) (📖 p. 391)



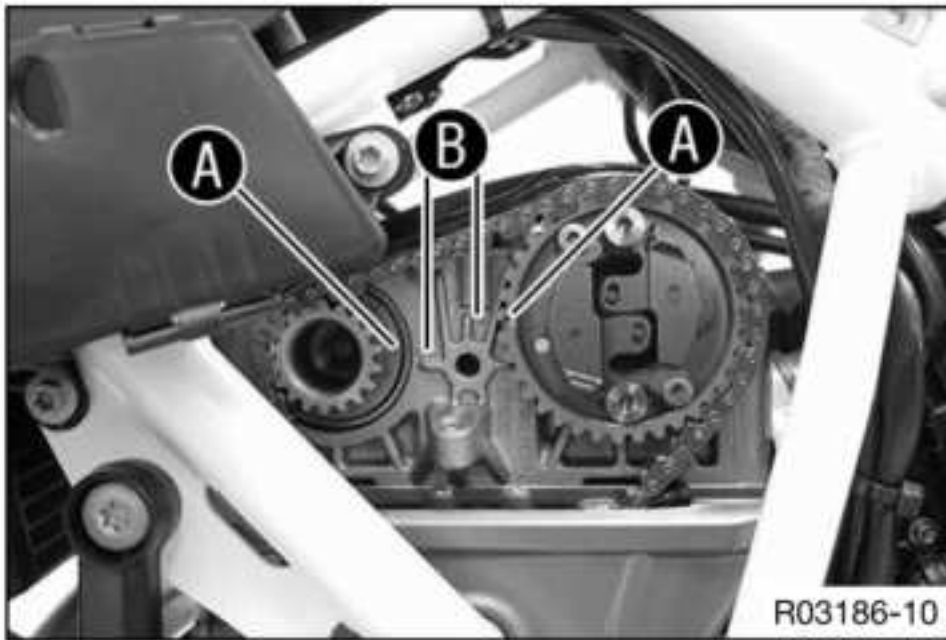
- Remove the cable ties.
- Pull off the bleeder hoses.



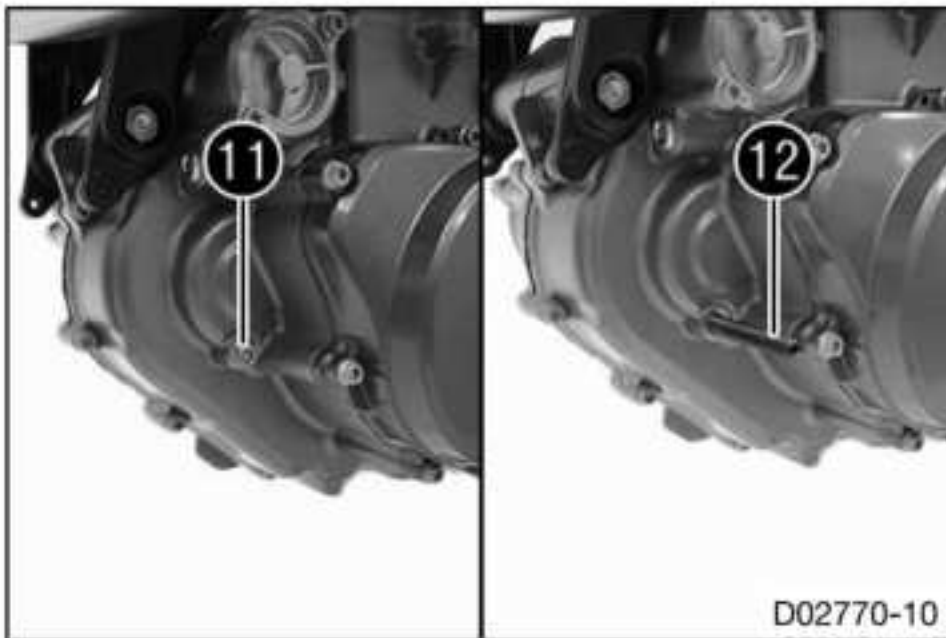
- Remove screws **9**.
- Remove the valve cover with the gasket.



- Remove screw **10** with the O-ring.



- Turn the crankshaft counterclockwise until markings **A** are flush with markings **B** of the cylinder head.



- Remove screw **11** with the washer.
- Look through the hole to check that the position hole of the crankshaft is visible.
- Mount special tool **12**.

Locking screw (77329010000) (p. 393)



- Check the valve clearance at the intake valves between valve and cam lever using the special tool.

Guideline

Valve play, cold	
Intake at: 20 °C (68 °F)	0.10 ... 0.15 mm (0.0039 ... 0.0059 in)

Feeler gauge (59029041100) (p. 384)

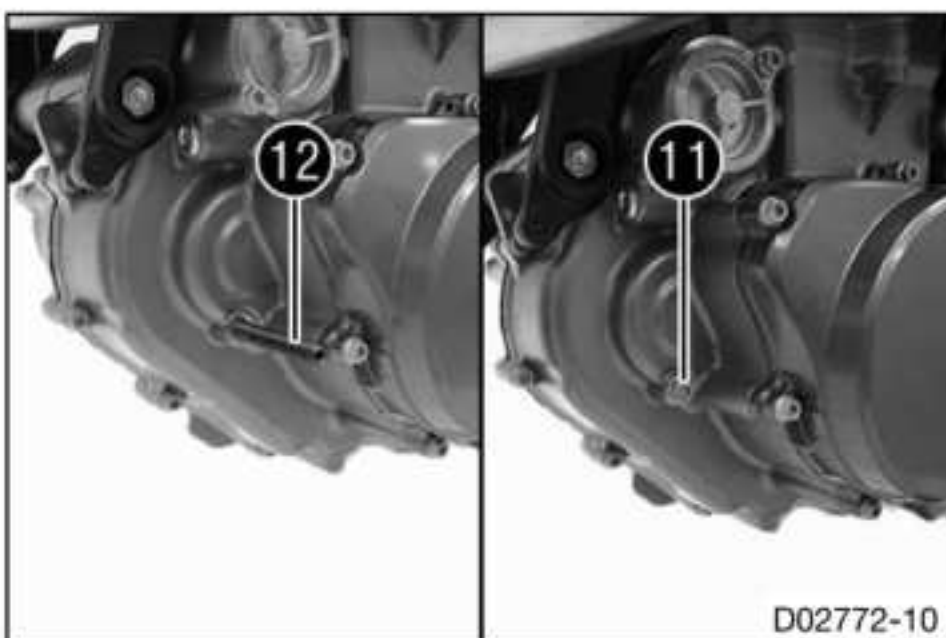
- » If the valve clearance does not meet specifications:
 - Adjust the valve clearance. (p. 308)
- Check the valve clearance at the exhaust valves between valve and rocker arm using the special tool.

Guideline

Valve play, cold	
Exhaust at: 20 °C (68 °F)	0.22 ... 0.27 mm (0.0087 ... 0.0106 in)

Feeler gauge (59029041100) (p. 384)

- » If the valve clearance does not meet specifications:
 - Adjust the valve clearance. (p. 308)



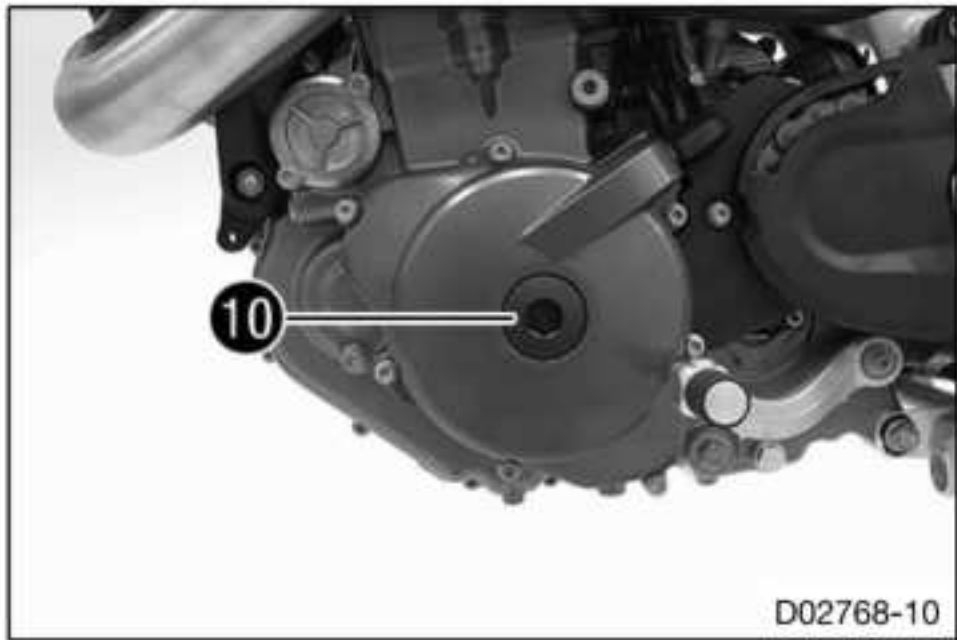
- Remove special tool **12**.

Locking screw (77329010000) (p. 393)

- Crank the engine several times.
- Check the valve clearance and correct it if necessary.
- Mount and tighten screw **11** with the washer.

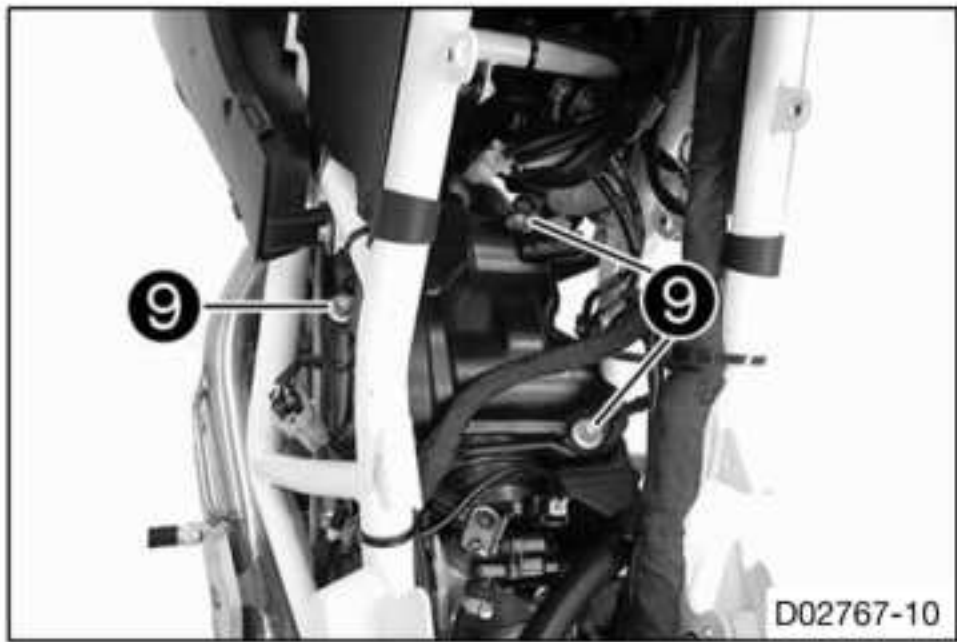
Guideline

Screw plug, locking screw	M8	15 Nm (11.1 lbf ft)
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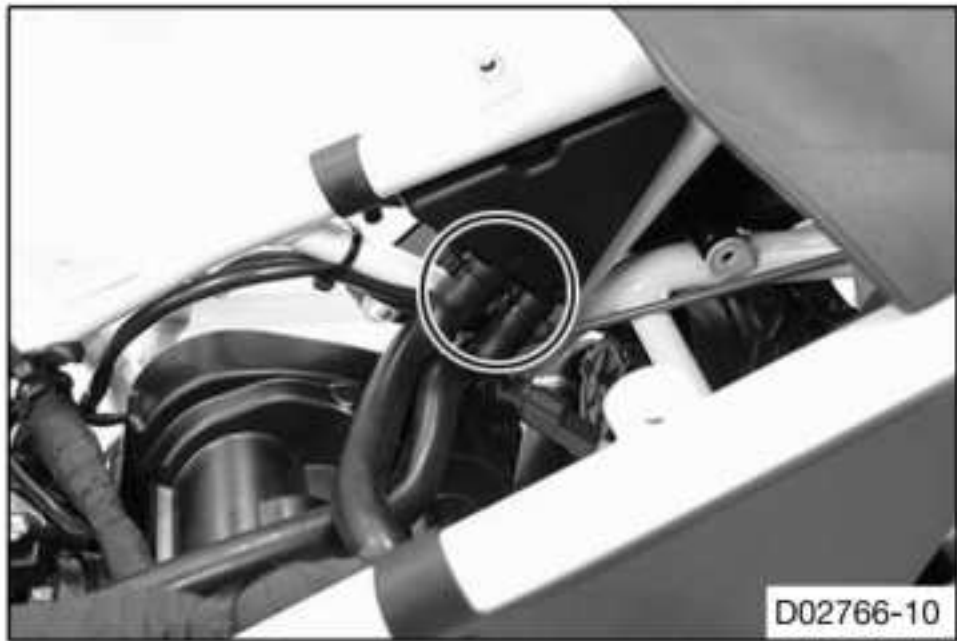
- Mount screw 10 with the O-ring and tighten.
Guideline

Screw in alternator cover	M24x1.5	8 Nm (5.9 lbf ft)
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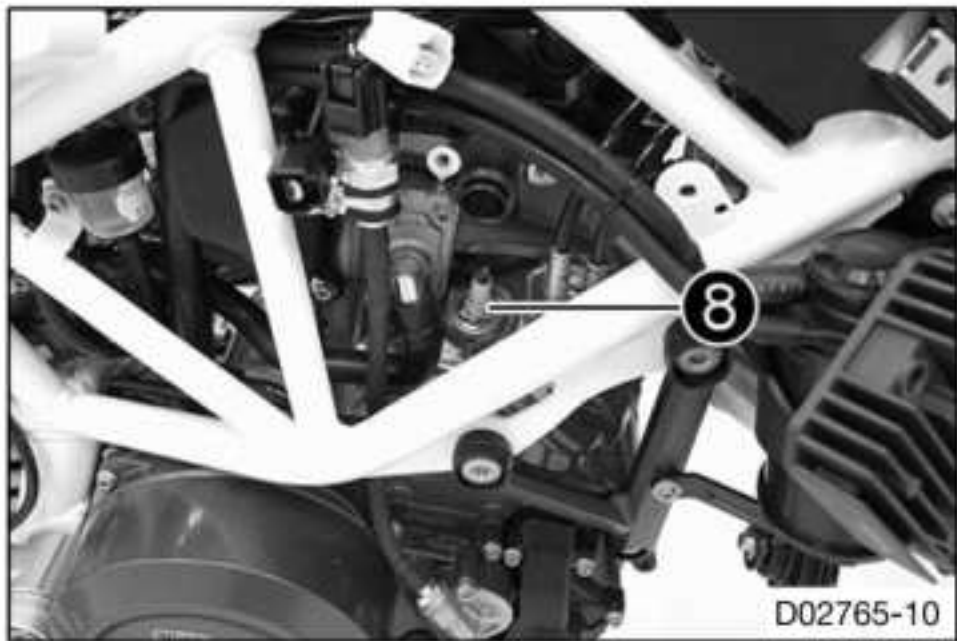


- Position the valve cover with the gasket. Mount and tighten screws 9.
Guideline

Screw, valve cover	M6	10 Nm (7.4 lbf ft)
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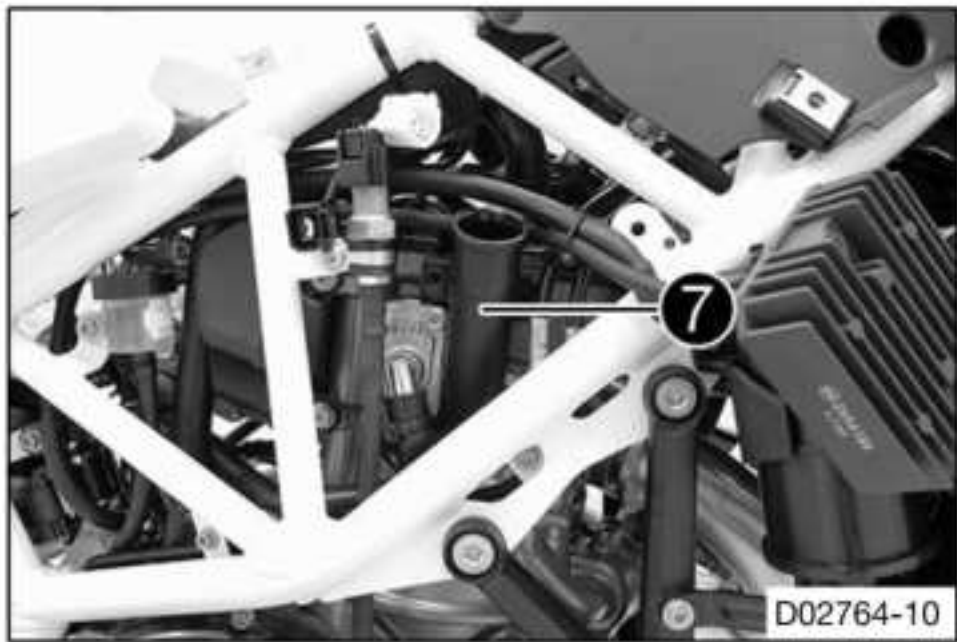


- Mount bleeder hoses and secure with cable ties.

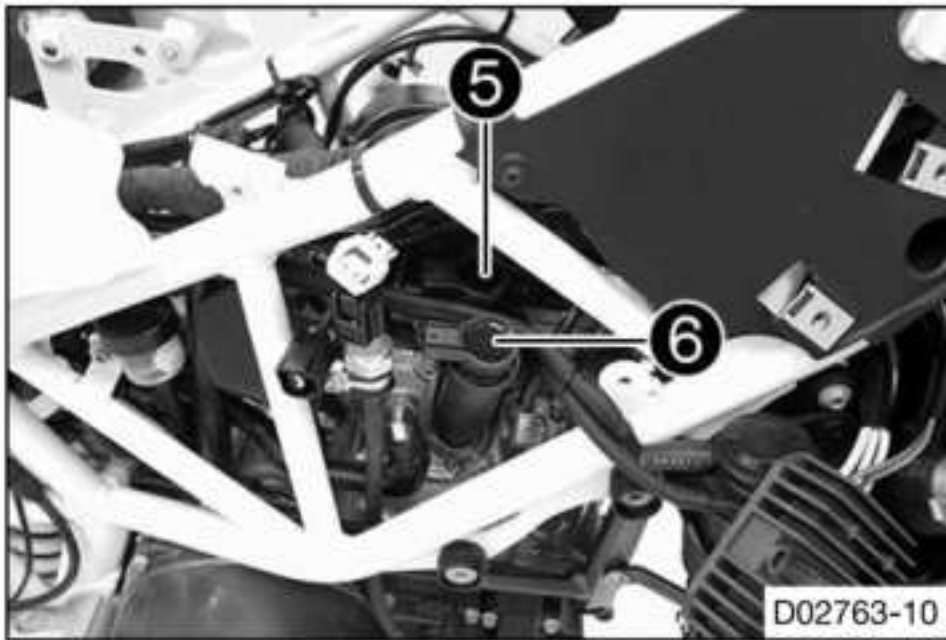


- Mount and tighten spark plug 8 using the special tool.
Guideline

Spark plug outside	M10x1	11 Nm (8.1 lbf ft)
Spark plug wrench (75029172000) (p. 391)		



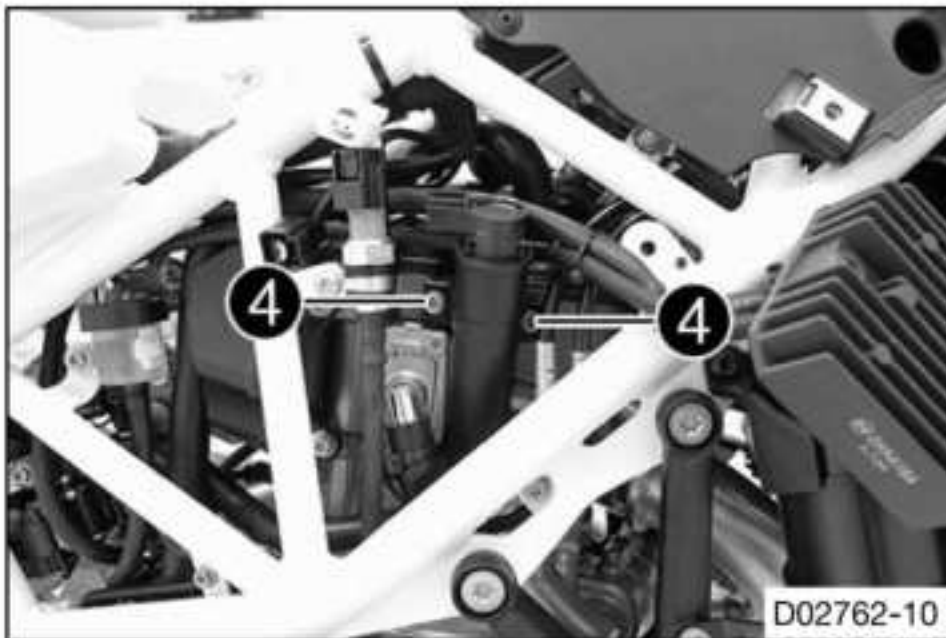
- Position spark plug shaft 7.



- Position ignition coils ⑤ and ⑥.

**Info**

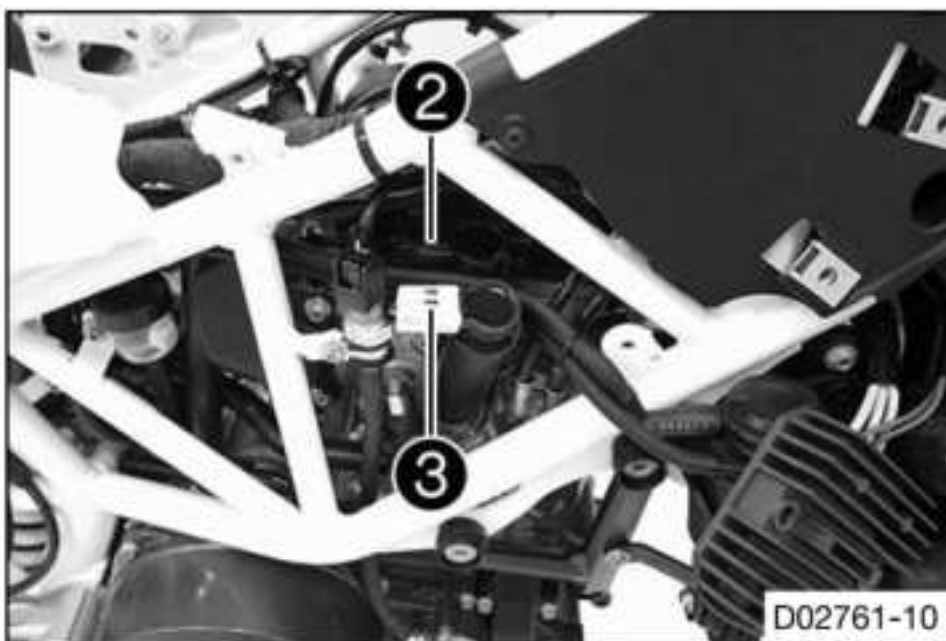
Ensure that the ignition coils are seated correctly.



- Mount and tighten screws ④.

Guideline

Screw, ignition coil	M6	10 Nm (7.4 lbf ft)
----------------------	----	--------------------



- Plug in connectors ② and ③ of the ignition coils.
- ✓ The cable with the white marking is connected to the outer ignition coil.



- Mount bleeder hose and position spring band clamp ① using the auxiliary tool.

Spring band clamps plier (60029057100) (p. 385)

Finishing work

- Install the air filter box. (p. 89)
- Mount the side cover. (p. 94)
- Mount the seat. (p. 93)
- Remove the motorcycle from the work stand. (p. 15)

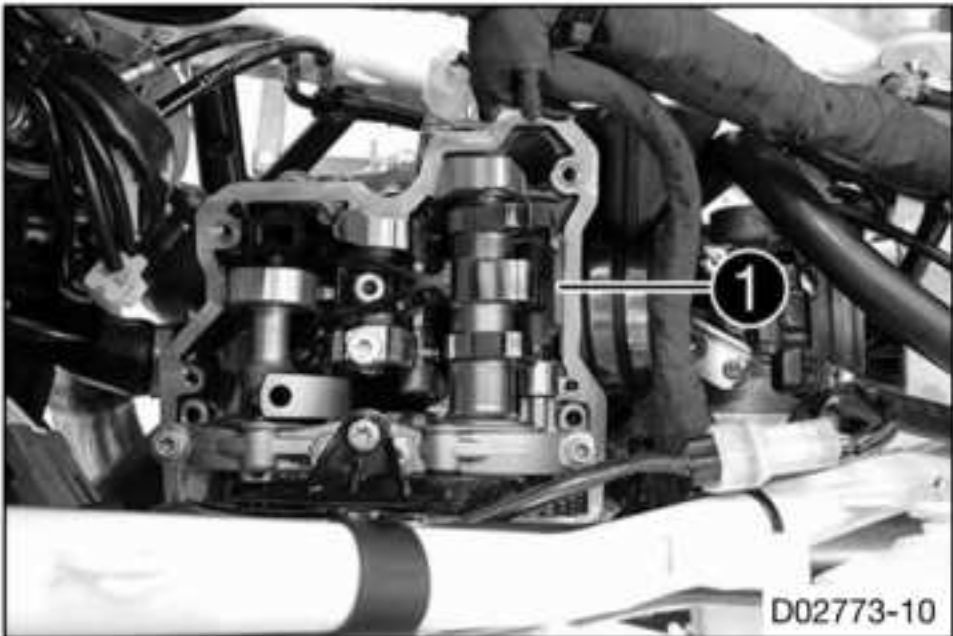
24.2 Adjusting the valve clearance

Preparatory work

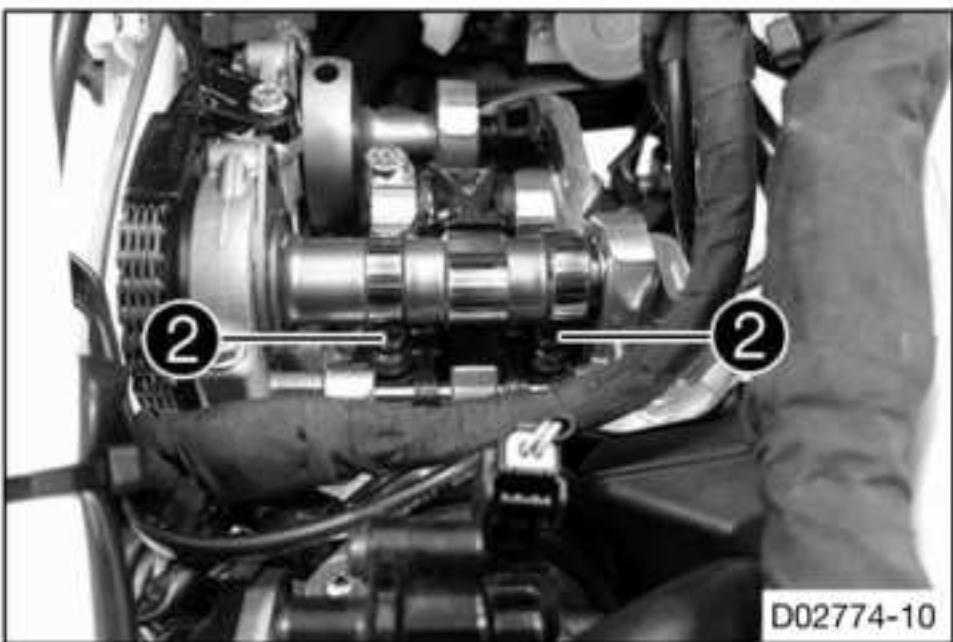
- Raise the motorcycle with the work stand. (📖 p. 14)
- Remove the seat. (📖 p. 93)
- Take off the side cover. (📖 p. 93)
- Remove the air filter box. (📖 p. 87)
- Check the valve clearance. (📖 p. 303)

Intake valves

- Push cam lever clip 1 up and remove.



- Push the cam lever aside.
- Remove shims 2 and set them down according to the installation position.
- Correct the shims based on the results of the valve clearance check.
- Insert suitable shims.
- Position cam lever.



- Mount cam lever clip 1.



- Remove special tool 3.

Locking screw (61229015000) (📖 p. 386)

- Crank the engine several times.
- Mount and tighten screw 4 with the washer.

Guideline

Screw plug, locking screw	M8	15 Nm (11.1 lbf ft)
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