

Owner's manual 2026



FC 250
FC 250 FACTORY EDITION

Item no.: 3402884en

FOR | PIONEERS

Congratulations on your decision to purchase a Husqvarna motorcycle. You are now the owner of a state-of-the-art, sporty motorcycle that you will continue to enjoy for a long time if you maintain it properly.

We hope you enjoy your bike and have a safe journey at all times!

You can enter the serial numbers of your vehicle below to find the serial numbers more quickly if required:

Vehicle identification number  (p. 17)	Stamp of the contractual partner
Engine number  (p. 17)	

The owner's manual contained the latest information for this model series at the time of publication. However, minor differences due to further developments in design cannot be ruled out completely.

All specifications are non-binding. Husqvarna Mobility GmbH specifically reserve the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc. without prior notice and without specifying reasons, to adapt these to local conditions, as well as to stop production of a particular model without prior notice. Husqvarna Mobility assumes no liability for delivery options, deviations from figures and descriptions, as well as misprints and other errors. Some of the models shown partly contain special equipment that does not belong to the standard scope of supply.

© 2025 Husqvarna Mobility GmbH, Mattighofen Austria
All rights reserved. Figures: Mitterbauer / Visus Studios / KISKA / Husqvarna Mobility
Written permission from the copyright owner is required before any duplication or reproduction.

ISO 9001

Husqvarna Mobility GmbH applies quality assurance processes that lead to the highest possible product quality as defined in the ISO 9001 international quality management standard.

12 100 6061



Issuing institution:
TÜV SÜD Management Service GmbH

Husqvarna Mobility GmbH
Stallhofnerstraße 3
5230 Mattighofen, Austria

This document is valid for:
FC 250 EU (F2101Z1)
FC 250 FACTORY EDITION US (F2175Z6)



Table of contents

1	Means of representation	9	6.11	Cold start button	22
1.1	Conventions.....	9	6.12	Idle speed adjustment screw	23
1.1.1	Icons.....	9	6.13	Gear shift lever	23
1.1.2	Formatting.....	9	6.14	Brake pedal	24
1.1.3	Abbreviations	9	6.15	Plug-in stand	24
2	Safety	10	6.16	Factory Start (Factory edition)	24
2.1	Safety instructions	10	7	Preparing for use	25
2.2	Ban on tampering	10	7.1	Notes on preparing for first use	25
2.3	Safe use	11	7.2	Running in the engine	26
2.4	Protective clothing	11	7.3	Starting performance of lithium-ion batteries at low temperatures	26
2.5	Work rules	11	7.4	Preparing the vehicle for difficult operating conditions	27
2.6	Environment	12	7.5	Preparing the vehicle for rides on dry sand	27
2.7	Owner's manual	12	7.6	Preparing the vehicle for rides on wet sand	28
2.8	Use definition – intended use	12	7.7	Preparing for rides on wet and muddy surfaces	28
2.9	Improper use	13	7.8	Preparing vehicle for rides at high temperature or slow speed	29
3	Important notes	14	7.9	Preparing the vehicle for low temperatures or snow	29
3.1	Manufacturer's warranty, implied warranty	14	8	Riding instructions	30
3.2	Auxiliary material, operating material	14	8.1	Checks and maintenance measures when preparing for use	30
3.3	Spare parts, accessories	14	8.2	Starting the vehicle	30
3.4	Service	14	8.3	Activating launch control	31
3.5	Figures	14	8.4	Activating traction control	32
3.6	Customer service	14	8.5	Activating the Factory Start (Factory edition)	32
4	View of the vehicle	15	8.6	Starting off	33
4.1	View of vehicle, front left (example)	15	8.7	Quickshifter	33
4.2	View of vehicle, rear right (example)	16	8.8	Activate the quickshifter	34
5	Serial number	17	8.9	Shifting, riding	34
5.1	Vehicle identification number	17	8.10	Braking	35
5.2	Frame label	17	8.11	Stop, park	35
5.3	Engine number	17	8.12	Transportation	36
5.4	Fork part number	17	8.13	Refueling	37
5.5	Shock absorber part number	18	9	Service schedule	38
6	Controls	19	9.1	Service schedule	38
6.1	Clutch lever	19	10	Tuning the chassis	41
6.2	Handbrake lever	19	10.1	Checking the basic chassis setting with the rider's weight	41
6.3	Throttle grip	19	10.2	Air suspension XACT (EU)	41
6.4	Kill switch	19	10.3	Compression damping of the shock absorber	42
6.5	Electric starter	20			
6.6	Combination switch	20			
6.7	Overview of indicator lights	20			
6.8	Dashboard	21			
6.9	Opening the fuel tank cap	21			
6.10	Closing the fuel tank cap	22			

10.4	Adjusting the low-speed compression damping of the shock absorber	42	11.14	Installing the lower triple clamp 	70
10.5	Adjusting the high-speed compression damping of the shock absorber	43	11.15	Checking the steering head bearing play	74
10.6	Adjusting the rebound damping of the shock absorber (EU)	44	11.16	Adjusting the steering head bearing play 	75
10.7	Adjusting the low-speed rebound damping of the shock absorber (Factory edition)	45	11.17	Lubricating the steering head bearing 	76
10.8	Adjusting the high-speed rebound damping of the shock absorber (Factory edition)	45	11.18	Removing the number plate	76
10.9	Measuring the dimension of the unloaded rear wheel	46	11.19	Mounting the number plate	77
10.10	Checking the static sag of the shock absorber	47	11.20	Removing the front top fender	77
10.11	Checking the rider sag of the shock absorber	47	11.21	Installing the front top fender	78
10.12	Adjusting the preload for the shock absorber 	48	11.22	Removing the shock absorber 	78
10.13	Adjusting the rider sag 	49	11.23	Installing the shock absorber 	80
10.14	Checking the basic setting of the fork	51	11.24	Removing the seat	81
10.15	Adjusting the fork air pressure (EU)	51	11.25	Mounting the seat	82
10.16	Adjusting the compression damping of the fork	52	11.26	Removing air filter box cover	82
10.17	Adjusting the rebound damping of the fork	53	11.27	Installing air filter box cover	83
10.18	Handlebar position	54	11.28	Removing the air filter 	84
10.19	Adjusting the handlebar position 	55	11.29	Cleaning the air filter and air filter box 	85
11	Service work on the chassis	60	11.30	Installing the air filter 	86
11.1	Raising the motorcycle with a lift stand	60	11.31	Securing the air filter box cover 	86
11.2	Removing the motorcycle from the lift stand	60	11.32	Removing the right side fairing	87
11.3	Bleeding the fork legs	61	11.33	Installing the right side cover	88
11.4	Cleaning the dust boots of the fork legs	61	11.34	Removing the muffler	88
11.5	Removing the fork protector	62	11.35	Installing muffler	89
11.6	Installing the fork protector	63	11.36	Changing the damping material on the main silencer 	90
11.7	Removing the skid plate (Factory edition)	64	11.37	Removing the fuel tank 	91
11.8	Installing the skid plate (Factory edition)	64	11.38	Installing the fuel tank 	93
11.9	Removing the frame protector	65	11.39	Checking the chain for dirt	95
11.10	Installing the frame protector	65	11.40	Cleaning the chain	95
11.11	Removing the fork legs 	65	11.41	Checking the chain tension	96
11.12	Installing the fork legs 	67	11.42	Adjusting the chain tension	96
11.13	Removing the lower triple clamp 	68	11.43	Checking the chain, rear sprocket, front sprocket, and chain guide	97
			11.44	Checking the frame 	100
			11.45	Checking the swingarm 	100
			11.46	Checking the throttle cable routing	100
			11.47	Checking the rubber grips	101
			11.48	Program the Quickshifter	102
			11.49	Adjusting the basic position of the clutch lever	102
			11.50	Checking/correcting the fluid level of hydraulic clutch	102
			11.51	Changing the hydraulic clutch fluid 	103

12	Brake system	105	15.4	Draining the coolant 	135
12.1	Checking the free travel on the hand brake lever	105	15.5	Refilling the coolant 	135
12.2	Adjusting the basic position of the hand brake lever	105	15.6	Changing the coolant	136
12.3	Checking the brake discs	105	16	Tuning the engine	138
12.4	Checking the brake fluid level for the front brake	106	16.1	Checking the play in the throttle cable	138
12.5	Adding brake fluid for the front brake 	107	16.2	Adjusting the throttle cable play 	138
12.6	Checking that the brake pads of the front brake are secured	108	16.3	Adjusting the characteristic map of the throttle response 	139
12.7	Changing the brake pads of the front brake 	109	16.4	Changing the mapping	141
12.8	Checking the free travel of the brake pedal	111	16.5	Adjusting the idle speed 	141
12.9	Adjusting the basic position of the brake pedal 	111	16.6	Programming the throttle valve position	142
12.10	Checking the brake fluid level for the rear brake	112	16.7	Checking the basic position of the gear shift lever	143
12.11	Adding brake fluid for the rear brake 	113	16.8	Adjusting the basic position of the gear shift lever 	143
12.12	Checking that the brake pads of the rear brake are secured	114	17	Service work on the engine	144
12.13	Changing the rear brake pads 	114	17.1	Changing the fuel screen 	144
13	Wheels, tires	117	17.2	Checking the engine oil level	145
13.1	Removing the front wheel 	117	17.3	Changing the engine oil and oil filter, cleaning the oil screen 	146
13.2	Installing the front wheel 	118	17.4	Adding engine oil	148
13.3	Removing the rear wheel 	120	18	Cleaning, care	150
13.4	Installing the rear wheel 	121	18.1	Cleaning the motorcycle	150
13.5	Checking the tire condition	123	19	Storage	152
13.6	Checking the tire pressure	123	19.1	Storage	152
13.7	Checking the spoke tension	124	19.2	Preparing for use after storage	153
14	Electrics	125	20	Troubleshooting	154
14.1	Removing the 12 V battery 	125	20.1	troubleshooting	154
14.2	Installing the 12 V battery 	126	20.2	Troubleshooting CUO (Factory edition)	155
14.3	Charging the 12 V battery 	127	20.2.1	Troubleshooting CUO (Factory edition).....	155
14.4	Changing the main fuse	129	21	Flash codes	156
14.5	Changing the fuse of the fuel pump	130	21.1	Flash codes	156
14.6	Diagnostic connector	131	22	Technical specifications	159
14.7	connectivity Unit Offroad (Factory edition)	131	22.1	Engine	159
15	Cooling system	133	22.1.1	Technical data - engine	159
15.1	Cooling system	133	22.1.2	Capacities - engine	160
15.2	Checking the frost protection and coolant level	133	22.2	Chassis	160
15.3	Checking the coolant level	134	22.2.1	Technical data - chassis	160
			22.2.2	Technical data - tires	161
			22.2.3	Capacities - vehicle	161

22.3	Electrics	162	F	Icons.....	188	
22.3.1	Electrics	162		F.1	Symbol colors	188
22.3.2	Fuses	162		F.1.1	Yellow and orange symbols	188
22.3.3	Lamps	162		F.1.2	Green and blue symbols	188
22.4	Fork	162		Index.....	189	
22.4.1	Technical data - fork (EU)	162				
22.4.2	Capacities - fork (EU).....	162				
22.4.3	Technical data - fork (Factory edition).....	163				
22.4.4	Capacities - fork (Factory edition).....	163				
22.5	Shock absorber	164				
22.5.1	Technical data - shock absorber (EU)	164				
22.5.2	Capacities - shock absorber (EU)	164				
22.5.3	Technical data - shock absorber (Factory edition)	165				
22.5.4	Capacities - shock absorber (Factory edition).....	166				
22.6	Tightening torque	166				
22.6.1	Engine tightening torques	166				
22.6.2	Chassis tightening torques	169				
23	Declarations of conformity CUO	174				
23.1	Country-specific declarations of conformity - Connectivity Unit Offroad (Factory edition)	174				
24	FCC statements CUO	175				
24.1	FCC statements - Connectivity Unit Offroad (Factory edition)	175				
24.1.1	Declaration regarding modifications.....	175				
24.1.2	Declaration regarding interference	175				
25	Relevant documents	176				
25.1	Declaration of conformity.....	176				
25.2	Declaration of conformity (UK).....	178				
Notes		181				
A	Technical terms	181				
B	Fuels	182				
C	Operating material.....	183				
D	Electrics	186				
E	Cleaning agents.....	187				

1.1 Conventions

1.1.1 Icons



Indicates a desired result (e.g. of a work step or a function).



Indicates an undesired result (e.g. of a work step or a function).



All work marked with this symbol requires specialist knowledge and technical understanding. Ensure that this work is carried out or supervised by trained personnel from an authorized contractual partner, and that any special tools required are used.



Indicates a page reference.



Indicates information with more details.



Indicates a tip, e.g. to simplify work.



Indicates the result from a test step.



Indicates the end of an activity, including any rework.

1.1.2 Formatting

Proprietary name	Indicates a proprietary name.
Name[®]	Indicates a protected name.
Brand[™]	Indicates a brand available on the open market.
<u>Underlined terms</u>	Refer to technical details of the vehicle or indicate technical terms that are explained in the glossary.

1.1.3 Abbreviations

2-pc.	two-part
Part no.	Part number
or	respectively
approx.	circa
etc.	et cetera
poss.	possibly/possible
if necessary	if necessary
compl.	complete
min.	at least
no.	number
no fig.	no figure
s.	see
among others	among others/not limited to
and the like	and the like
etc.	et cetera
cf.	compare
e.g.	for example

2.1 Safety instructions

Function of the safety instruction

Safety instruction brings attention to dangers when handling the product. Hazards are classified, named, described, and supplemented with information on how to avoid them.

- If there is a safety instruction before a list of instructions, the danger exists throughout the entire activity.
- If there is a safety instruction immediately before an instruction, the next step presents a danger.

Safety instruction layout

All safety instructions are identified by a signal word and a warning symbol. The combination of signal word and warning symbol determines the degree of danger.



DANGER

Indicates an imminent danger that leads to serious injury or death.



WARNING

Indicates a potentially imminent danger that could lead to serious injury or death.



CAUTION

Indicates a potentially imminent danger that can lead to minor or slight injuries.



NOTE

Indicates a situation that can lead to damage to the product or the product environment.



NOTE

Indicates a situation that can lead to environmental damage.

2.2 Ban on tampering

No changes may be made to the noise control equipment and components.

Tampering that is prohibited

- Removing or disabling any devices or components used for noise control before the new vehicle is sold or delivered to the end customer.
- Removing or disabling any device or component used for noise control for purposes other than service, repair, or replacement during the service life of the vehicle.
- Use of the vehicle after a device or component used for noise control has been removed, disabled, or inadequately maintained.

Examples of prohibited tampering

- Removing or drilling through rear mufflers, baffle plates, manifolds, or other components that conduct exhaust gases.
- Removing or puncturing parts of the intake system.
- Replacing moving parts of the vehicle, or parts of the exhaust system or intake system, with parts other than those specified by the manufacturer.

2.3 Safe use



DANGER

Danger of accidents A rider who is not fit to ride poses a danger to themselves and to others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs, or medication.
- Do not operate the vehicle if you are physically or mentally incapable of doing so.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



WARNING

Danger of burns Some vehicle components become hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, damper, or brake system before the vehicle parts have cooled down.
- Allow the vehicle parts to cool down before performing any work on the vehicle.

The vehicle should only be used when it is in perfect technical condition, for its intended purpose, and in a safe and environmentally-friendly manner.

The vehicle must only be used by trained persons.

Have any faults that impair safety immediately remedied by an authorized contractual partner.

Observe the information and warning stickers on the vehicle.

2.4 Protective clothing



WARNING

Risk of injury Missing or inadequate protective clothing increases the risk of injury.

- Wear appropriate protective clothing such as helmet, boots, gloves as well as pants and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.

In the interest of your own safety, Husqvarna Mobility recommends that you only operate the vehicle while wearing protective clothing.

2.5 Work rules

Unless specified otherwise, the ignition must be switched off during all work (models with ignition lock, models with transponder key) or the engine must be at a standstill (models without ignition lock or transponder key).

Special tools are required for some work. The tools are not part of the vehicle, but can be ordered using the number in parentheses. Example: bearing puller (15112017000)

Unless otherwise noted, normal conditions apply to all tasks and descriptions.

Ambient temperature	20 °C (68.0 °F)
Ambient air pressure	1,013 mbar (14.69 psi)
Relative air humidity	60 ±5 %

During assembly, use new parts to replace parts which cannot be reused (e.g. self-locking screws and nuts, expansion screws, seals, sealing rings, O-rings, pins, and lock washers).

A thread lock (e.g. **Loctite®**) is required for some screw connections. Observe the manufacturer's specific instructions for use.

If thread lock (e.g. **Precote®**) has already been applied to a new part, do not apply any additional thread lock. After disassembly, clean the parts that are to be reused and check them for damage and wear. Replace damaged or worn parts.

After completing a repair or service, check the operating safety of the vehicle.

2.6 Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the motorcycle sport, make sure that you use your motorcycle legally, be environmentally aware, and respect the rights of others.

When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

As motorcycles are not subject to the EU regulations governing the disposal of end-of-life vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. An authorized partner will be happy to help.

2.7 Owner's manual

Read this owner's manual carefully and in full before riding off for the first time. The owner's manual contains information and tips on how to operate, handle, and service your vehicle, as well as advice on optimum tuning and how to avoid injuries.



Tip

Save this owner's manual on your smartphone, for example, so that you can access it at any time.

An authorized contractual partner will be happy to assist you if you are unsure.

The owner's manual is an important component of the vehicle. If the vehicle is sold, the owner's manual must be downloaded again by the new owner.

The owner's manual can be downloaded multiple times using the QR code or the link on the delivery certificate. The owner's manual is also available for download from authorized contractual partners and on the Husqvarna Mobility website.

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

A printed copy can be ordered from the following address.

Website for printed copy: <https://print.ktm.com>

2.8 Use definition – intended use

This vehicle has been designed and built to withstand the typical stresses and strains of racing. This vehicle complies with the currently valid regulations and categories of the top international motorsports organizations.



Note

Only use this vehicle on designated tracks away from public roads.

2.9 Improper use

The vehicle may only be used as intended.

Improper use can result in danger to people, property and the environment.

Any use of the vehicle beyond the intended and defined use constitutes misuse.

Improper use includes the use of operating and auxiliary materials that do not meet the required specifications for the respective use.

3 Important notes

3.1 Manufacturer's warranty, implied warranty

The work prescribed in the service schedule must only be carried out by an authorized contractual partner and then confirmed in the electronic proof of service, as otherwise all warranty claims will be void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the manufacturer's warranty.

3.2 Auxiliary material, operating material

Use operating materials and auxiliary materials in accordance with the operating instructions and specifications.

3.3 Spare parts, accessories

For your own safety, only use spare parts and accessory products that are approved and/or recommended by Husqvarna Mobility and have them installed by an authorized contractual partner. Husqvarna Mobility accepts no liability for other products and any resulting damage or loss.

The part numbers of some spare parts and accessories are given in brackets in the respective descriptions. Your authorized contractual partner will be happy to advise you.

You can find the latest Husqvarna Mobility Technical Accessories for your vehicle at your authorized contractual partner and on the Husqvarna Mobility website.

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the owner's manual. An incorrect suspension setting can lead to damage and breakage of chassis components.

Use of the vehicle under arduous conditions, such as on sand or on wet, dusty and muddy surfaces, can result in significantly increased wear of components, such as the powertrain, brake system, air filter, or suspension components. For this reason, it may be necessary to inspect or replace parts before the next scheduled service interval.

Please adhere to the prescribed run-in times and service intervals at all times. Strictly adhering to this will ensure a much longer service life for your motorcycle.

The relevant mileage or time interval is whichever occurs first.

3.5 Figures

Some of the figures in this document contain optional extras.

For clarity, some components may be shown disassembled or may not be shown at all. Disassembly is not always absolutely necessary in order to carry out the activities described. The textual information takes precedence.

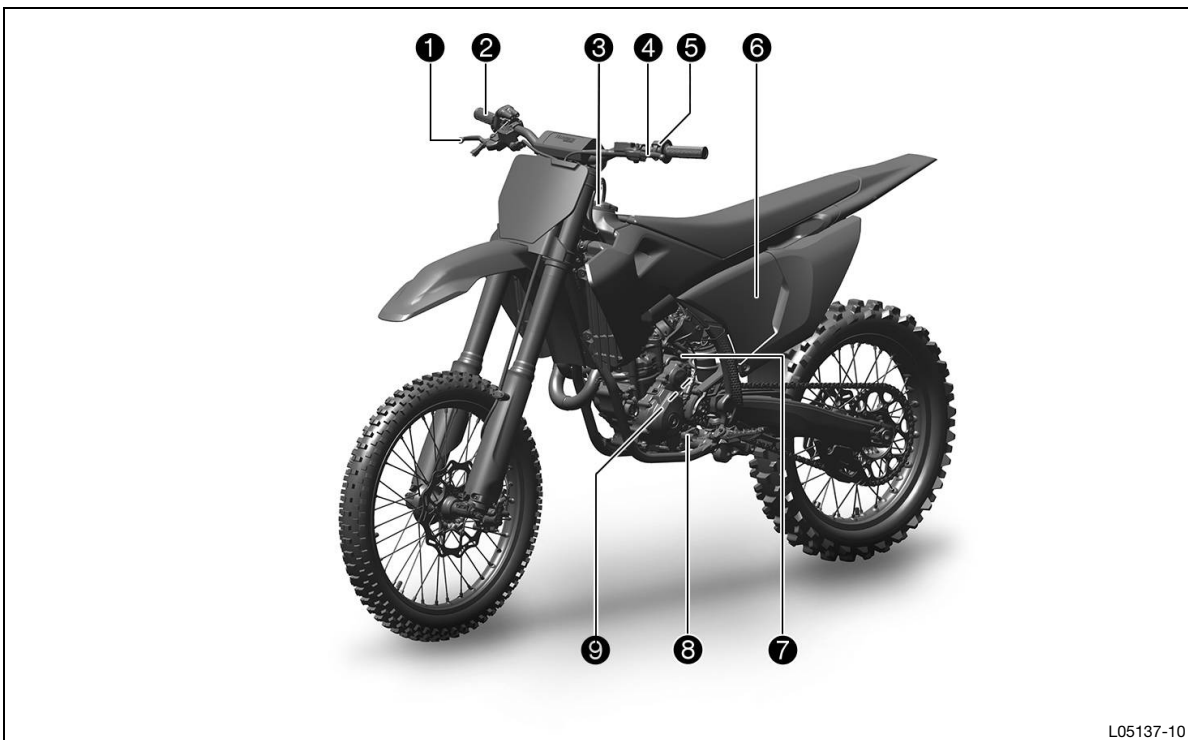
3.6 Customer service

Your authorized partner will be happy to answer any questions you may have regarding your vehicle or about Husqvarna Mobility.

A list of authorized partners can be found on the Husqvarna Mobility website.

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

4.1 View of vehicle, front left (example)



L05137-10

- | | |
|--|---|
| ① Handbrake lever  (p. 19) | ⑥ Air filter box cover |
| ② Throttle grip  (p. 19) | ⑦ Cold start button  (p. 22) |
| ③ Fuel tank cap | ⑧ Gear shift lever  (p. 23) |
| ④ Clutch lever  (p. 19) | ⑨ Engine number  (p. 17) |
| ⑤ Combination switch  (p. 20) | |

4 View of the vehicle

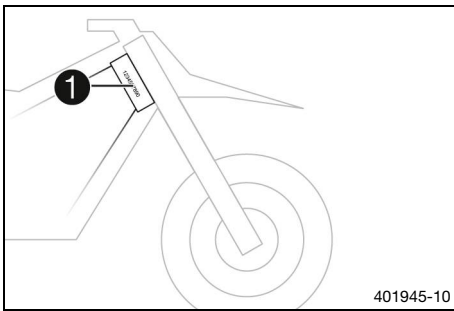
4.2 View of vehicle, rear right (example)



L05138-10

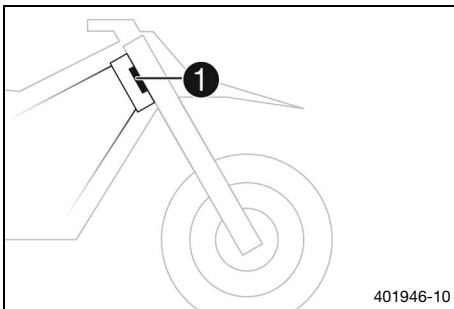
- | | |
|---|--|
| ① Shock absorber compression adjustment | ④ Frame label  (p. 17) |
| ② Idle speed adjustment screw  (p. 23) | ⑤ Fork part number  (p. 17) |
| ③ Kill switch  (p. 19) | ⑥ Engine oil level viewer |
| ④ Vehicle identification number  (p. 17) | ⑦ Shock absorber rebound adjustment |

5.1 Vehicle identification number



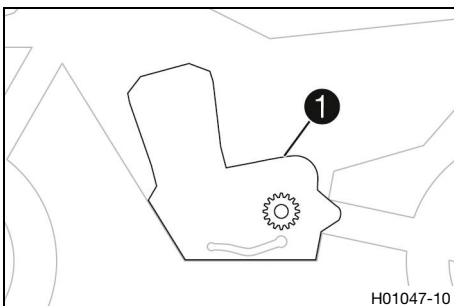
The vehicle identification number ❶ is stamped on the right-hand side of the steering head.

5.2 Frame label



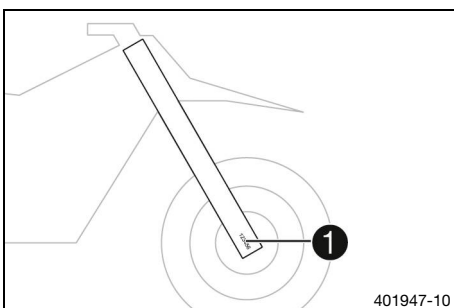
Frame label ❶ is located on the front frame tube.

5.3 Engine number



The engine number ❶ is located on the left side of the engine under the engine sprocket.

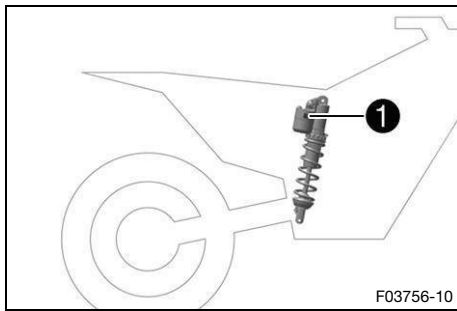
5.4 Fork part number



Fork part number ❶ is stamped on the inside of the fork shoe.

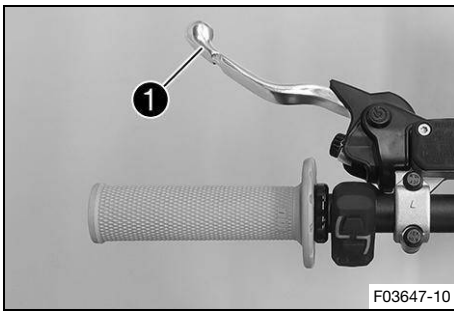
5 Serial number

5.5 Shock absorber part number



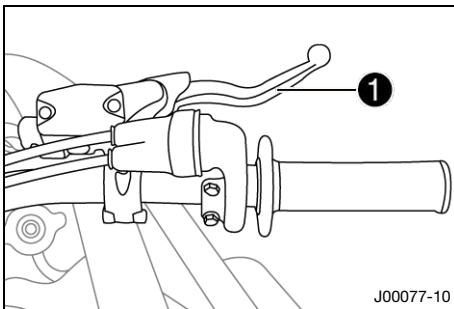
The shock absorber article number **1** is stamped on the bottom of the shock absorber toward the right-hand side.

6.1 Clutch lever



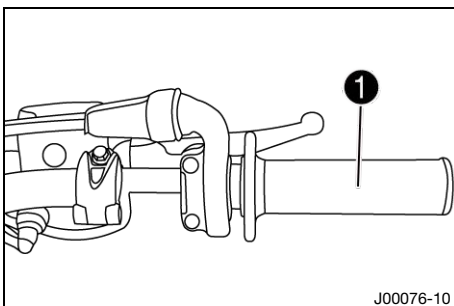
Clutch lever **1** is fitted on the left side of the handlebar. The clutch is activated hydraulically and adjusts itself automatically.

6.2 Handbrake lever



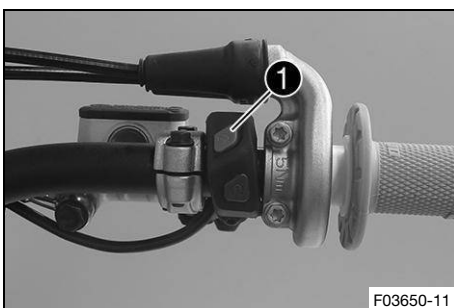
Hand brake lever **1** is fitted on the right side of the handlebar. The front brake is engaged using the hand brake lever.

6.3 Throttle grip



The throttle twist grip **1** is fitted on the right side of the handlebar.

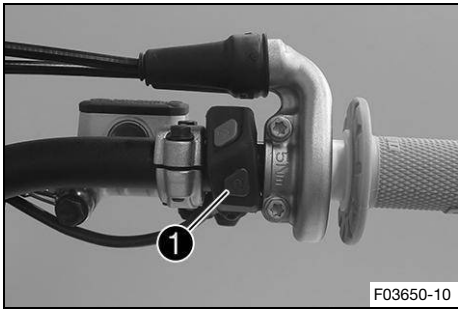
6.4 Kill switch



Kill switch **1** is fitted on the right side of the handlebar.

Condition	Meaning
Kill button  is not pressed.	In this position, the ignition circuit is closed, and the engine can be started.
The kill button  is pressed and held.	In this position, the ignition circuit is interrupted, a running engine stops, and an engine at standstill will not start.

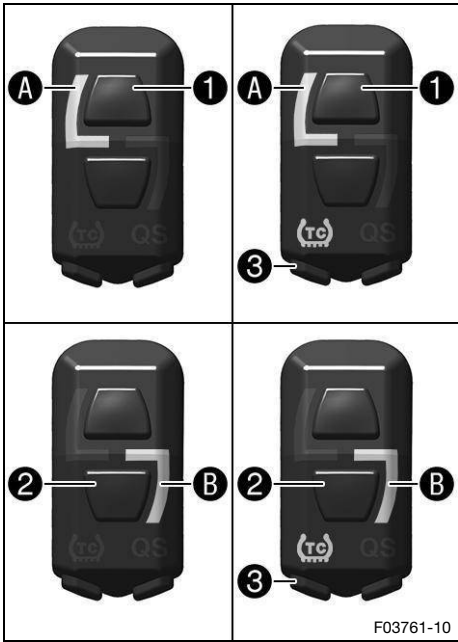
6.5 Electric starter



Electric starter ❶ is fitted on the right side of the handlebar.

Condition	Meaning
Electric starter (⚡) in the basic position	No function.
Electric starter (⚡) pressed	In this position, the starter motor is actuated.

6.6 Combination switch



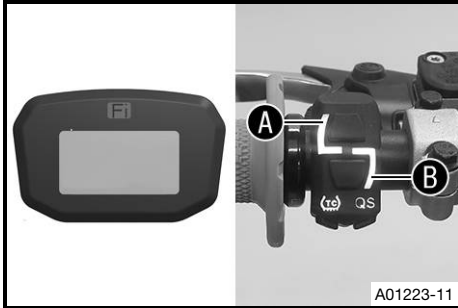
The combination switch is fitted on the left side of the handlebar. The engine characteristic can be changed using button ❶ and button ❷ on the combination switch.

Traction control can be activated using the TC button ❸ on the combination switch.

Launch control and the **quickshifter** can also be activated using the combination switch.

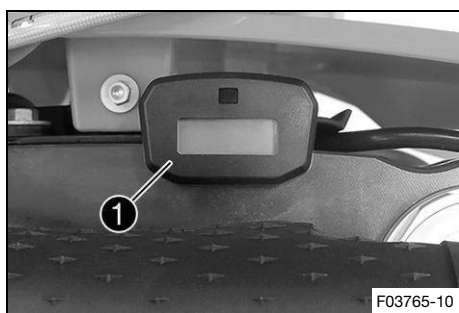
Condition	Meaning
STANDARD ❶	STANDARD mapping is activated when indicator light A lights up.
STANDARD ❶ with TC	STANDARD mapping with traction control is activated when the indicator light A and the TC indicator light illuminate.
ADVANCED ❷	ADVANCED mapping is activated when the indicator light B illuminates.
ADVANCED ❷ with TC	ADVANCED mapping with traction control is activated when the indicator light B and the TC indicator light illuminate.

6.7 Overview of indicator lights



Condition		Meaning
	Failure indicator lamp lights up or flashes red	The OBD has detected a malfunction in the vehicle electronics. Come safely to a halt, and contact an authorized dealer. The malfunction indicator lamp also lights up if traction control is activated and the speed limiter intervenes.
	Indicator light A lights up white – STANDARD mapping is activated.	STANDARD mapping is activated. This mapping is recommended for firm/hard surfaces.
	Indicator light B lights up green – ADVANCED mapping is activated.	ADVANCED mapping is activated. This mapping is recommended for sandy/loose surfaces.
	TC indicator lamp lights up orange	TC is enabled or is currently intervening. The TC indicator lamp flashes if launch control is activated.
	QS indicator lamp lights up blue	The Quickshifter is activated. The QS indicator light flashes when the Quickshifter is being programmed.

6.8 Dashboard



Dashboard **1** is fitted in the front of the handlebar. The dashboard shows the total operating hours of the engine. The operating hours are counted when the engine is started and stopped when the engine is switched off.



Note

Nothing can be cleared or modified on the dashboard. As soon as the diagnostics tool is connected, the hourmeter starts running. Before longer diagnostic sessions, unplug the hourmeter behind the number plate.

6.9 Opening the fuel tank cap



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, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

Danger of poisoning Fuel is harmful to health.

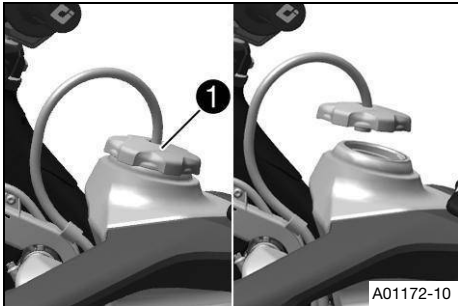
- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.

- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



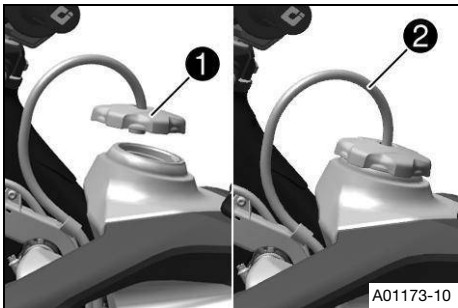
NOTE

- Environmental hazard** Improper handling of fuel is dangerous to the environment.
- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



- Turn fuel tank cap **1** counterclockwise and lift it off.

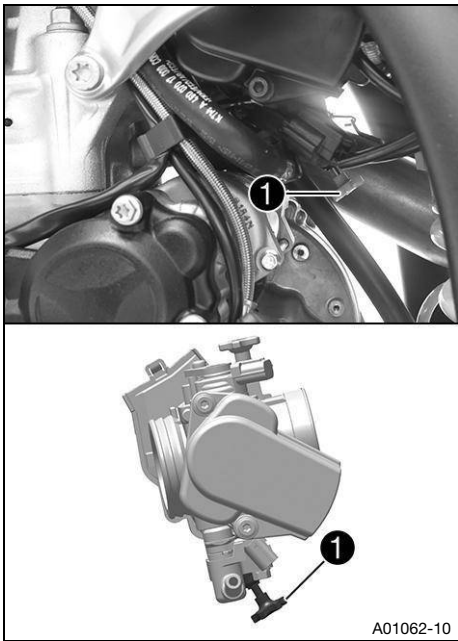
6.10 Closing the fuel tank cap



- Mount fuel tank cap **1** and turn it clockwise until the fuel tank is tightly closed.

Route hose of fuel tank vent **2** without kinks.

6.11 Cold start button

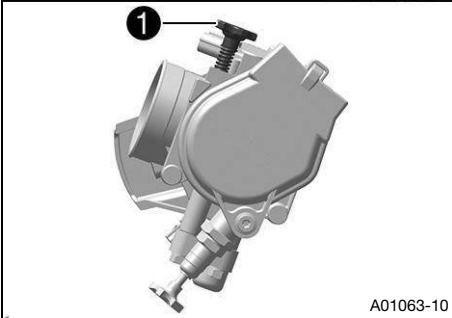


Cold start button **1** is fitted to the bottom of the throttle body. The electronic fuel injection extends the injection time when the engine is cold and the ambient temperature is low. To help the engine burn the increased amount of fuel, it must be supplied with additional oxygen by pushing the cold start button. After briefly opening up the throttle and then releasing the throttle twist grip again, or turning the throttle twist grip towards the front, the cold start button returns to its original position.

i Note
Check whether the cold start button has returned to its basic position.

Condition	Meaning
The cold start button is pushed in all the way to the stop.	Cold start button activated
Condition	Meaning
The cold start button is in the basic position.	Cold start button deactivated

6.12 Idle speed adjustment screw



The idle setting of the throttle body substantially influences the vehicle's starting behavior, a stable idle speed, and the vehicle's response when the throttle is opened.

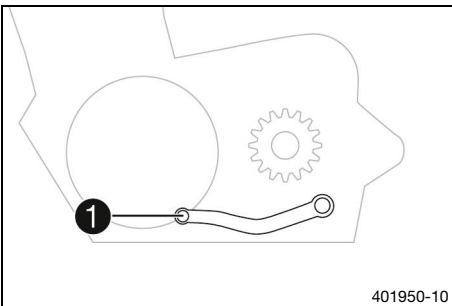
An engine with a correctly set idle speed is easier to start than an engine with the idle speed set incorrectly.

The idle speed is adjusted using idle speed adjusting screw ①.

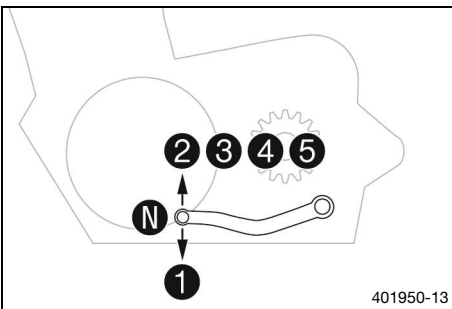
Increase the idle speed by turning the idle speed adjustment screw clockwise.

Decrease the idle speed by turning the idle speed adjustment screw counterclockwise.

6.13 Gear shift lever



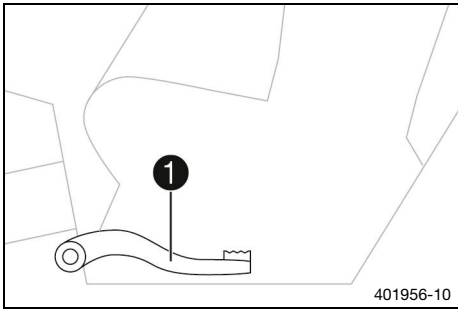
Gear shift lever ① is mounted on the left of the engine.



The gear positions can be seen in the figure.

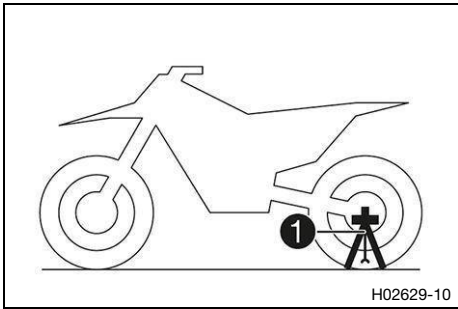
The neutral or idle position is between the first and second gears.

6.14 Brake pedal



Brake pedal ❶ is located in front of the right footpeg.
The rear brake is operated with the brake pedal.

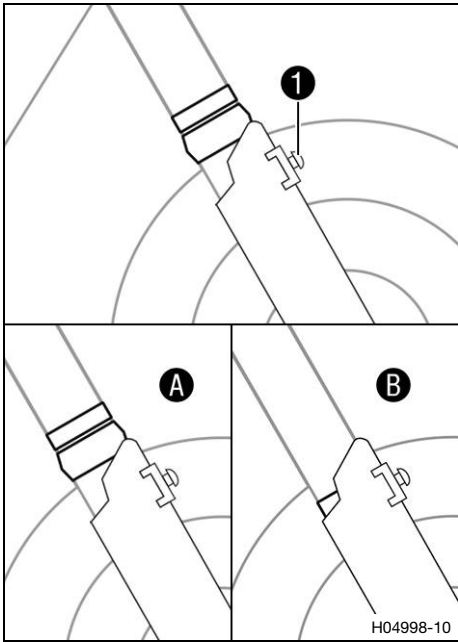
6.15 Plug-in stand



The holder for the plug-in stand ❶ is the left side of the wheel spindle.
The plug-in stand is used to park the motorcycle.
The plug-in stand is used as a fork support when transporting the motorcycle.

i Note
Remove the plug-in stand before riding.
The tool can be attached to the plug-in stand.

6.16 Factory Start (Factory edition)



The Factory Start ❶ is mounted on the right fork protector.

Condition	Meaning
❶ A The fork is in the normal operating state.	Factory Start Device deactivated
❶ B The fork is compressed and the front of the motorcycle is lowered.	Factory Start Device activated

Activating the Factory Start lowers the front of the motorcycle, which then causes the front wheel to lift off the ground when accelerating.
When the fork compresses for the first time, the Factory Start lock button is released automatically. From this point on, the fork operates as if the Factory Start were deactivated or not installed.

7.1 Notes on preparing for first use



DANGER

Danger of accidents A rider who is not fit to ride poses a danger to themselves and to others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs, or medication.
- Do not operate the vehicle if you are physically or mentally incapable of doing so.



WARNING

Danger of accidents The vehicle is not designed to carry passengers.

- Do not ride with a passenger.



WARNING

Danger of accidents The brake system fails in the event of overheating.

If the brake pedal is not released, the brake pads grind continuously.

- Take your foot off the brake pedal when you are not braking.



WARNING

Danger of accidents Not adapting the riding style constitutes a major risk.

- Adapt the vehicle speed to the road conditions and your riding ability.



WARNING

Danger of accidents Total weight and axle loads influence the handling characteristic.

- Do not exceed the maximum permissible total weight or the axle loads.



WARNING

Risk of injury People who act without authorization endanger themselves and others.

- Never leave the vehicle unattended while the engine is running.
- Secure the vehicle against unauthorized access.



WARNING

Danger of accidents Different tire profiles on the front and rear wheels can make it more difficult to control the vehicle.

- Make sure that only tires of the same tread type are mounted to the front and rear wheel.



WARNING

Risk of injury Missing or inadequate protective clothing increases the risk of injury.

- Wear appropriate protective clothing such as helmet, boots, gloves as well as pants and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.



Note

When using the motorcycle, remember that others may be disturbed by excessive noise.

- Ensure that the pre-delivery inspection has been carried out by an authorized contractual partner.
 - ✓ The delivery certificate is transferred upon vehicle handover.
- Read the entire owner's manual before riding for the first time.
- Get to know the controls.
- Adjust the basic position of the clutch lever.  (p. 102)
- Adjust the basic position of the hand brake lever.  (p. 105)
- Adjust the basic position of the brake pedal.   (p. 111)
- Adjust the basic position of the gear shift lever.   (p. 143)

7 Preparing for use

- Get used to the handling characteristics of the motorcycle on suitable terrain before undertaking a more challenging ride.



Note

This vehicle is not approved for use on public roads.

When off-road, it is recommended that you be accompanied by another person with another vehicle so that you can help each other.

- Also, ride as slowly as possible and in a standing position to get a better feel for the motorcycle.
- Do not undertake any off-road trips that exceed your ability and experience.
- Hold the handlebar firmly with both hands and keep your feet on the footpegs when riding.
- Do not take any luggage.
- The maximum permissible total weight and the maximum permissible axle loads must not be exceeded.

Maximum permissible total weight	335 kg (738.5 lb)
Maximum permissible front axle load	145 kg (319.7 lb)
Maximum permissible rear axle load	190 kg (418.9 lb)

- Check the spoke tension.  (p. 124)

The spoke tension must be checked after half an hour of operation.

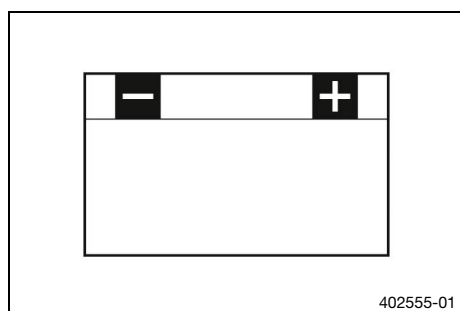
- Run in the engine.  (p. 26)

7.2 Running in the engine

- Do not exceed the specified engine speed and load during the running-in time.

Maximum engine speed	
During the first operating hour	7,000 rpm (116.67 Hz)
Maximum engine power	
during the first 3 operating hours	≤ 75 %
Avoid fully opening the throttle.	

7.3 Starting performance of lithium-ion batteries at low temperatures



Lithium-ion batteries are far lighter than lead batteries, have a low self-discharge rate, and have more starting power at temperatures over 6 °C (43 °F).

Several attempts to start may be required. Press the start button for 5 seconds, and wait 15 seconds between attempts. At low temperatures, wait for 30 seconds. The pauses are necessary so that the heat created can be distributed through the lithium-ion battery without damaging the lithium-ion battery.

The starting power increases as the battery warms up.

Always make sure the lithium-ion battery is charged to that there is enough power to spare for starting at low temperatures.

After 6 unsuccessful starting attempts, do not try again, and check the vehicle for other malfunctions instead.

7.4 Preparing the vehicle for difficult operating conditions

Note
Use of the vehicle under difficult conditions, such as on sand or on wet and muddy surfaces, can result in significantly increased wear of components, such as the drive train, brake system, or suspension components. For this reason, it may be necessary to inspect or replace parts before the next scheduled service interval.

- Clean the air filter and air filter box.   (p. 85)

Check the air filter approx. every 30 minutes.

- Check the electrical socket connector for humidity and corrosion and to ensure it is firmly seated.
 - » If moisture, corrosion, or damage is found:
 - Clean and dry the socket connector, or change it if necessary.
- Riding on dry sand.  (p. 27)
- Riding on wet sand.  (p. 28)
- Rides on wet and muddy surfaces.  (p. 28)
- Riding at high temperatures or slow speed.  (p. 29)
- Riding at low temperatures and in snow.  (p. 29)



7.5 Preparing the vehicle for rides on dry sand



- Mount the air filter dust protection.

Read the accompanying mounting instructions.

Air filter dust protection cover (A46009620000)



- Mount the air filter sand protection.

Read the accompanying mounting instructions.

Air filter sand protection (A46006922000)

7 Preparing for use



- Clean the chain.

Chain cleaner  (p. 187)

- Mount the steel sprocket.
- Grease the chain.

Universal oil spray  (p. 183)

- Clean the radiator fins.
- Straighten the bent radiator fins carefully.

7.6 Preparing the vehicle for rides on wet sand



- Mount the air filter water protection.

Read the accompanying mounting instructions.

Air filter water protection (A46006921000)



- Clean the chain.

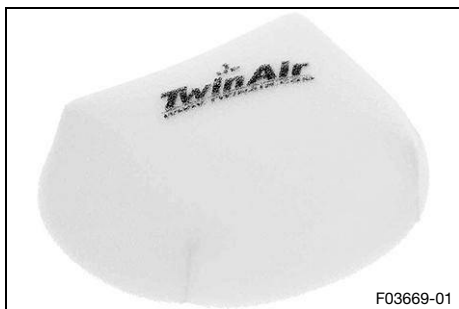
Chain cleaner  (p. 187)

- Mount the steel sprocket.
- Grease the chain.

Universal oil spray  (p. 183)

- Clean the radiator fins.
- Straighten the bent radiator fins carefully.

7.7 Preparing for rides on wet and muddy surfaces



- Mount the air filter water protection.

Read the accompanying mounting instructions.

Air filter water protection (A46006921000)



- Mount the steel sprocket.
- Clean the motorcycle. 📖 (p. 150)
- Straighten the bent radiator fins carefully.



7.8 Preparing vehicle for rides at high temperature or slow speed



- Adjust the secondary transmission to the road conditions.



Note

The engine oil heats up quickly when the clutch is operated frequently due to an excessively high secondary ratio.

- Clean the chain. 📖 (p. 95)
- Clean the radiator fins.
- Straighten the bent radiator fins carefully.
- Check the coolant level. 📖 (p. 134)



7.9 Preparing the vehicle for low temperatures or snow



- Mount the air filter water protection.

Read the accompanying mounting instructions.

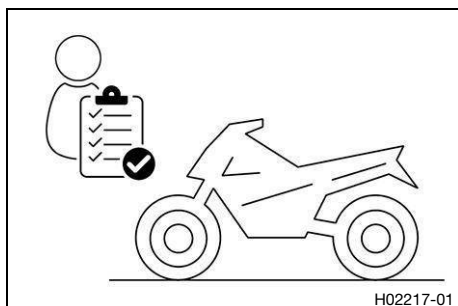
Air filter water protection (A46006921000)



8.1 Checks and maintenance measures when preparing for use

Note

Before every trip, check the condition of the vehicle and ensure that it is safe to operate.
The vehicle must be in perfect technical condition when it is being operated.



- Check that the electrical equipment is functioning properly.
- Check the engine oil level.  (p. 145)
- Check the brake fluid level for the front brake.  (p. 106)
- Check the brake fluid level for the rear brake.  (p. 112)
- Check that the brake pads of the front brake are secured.  (p. 108)
- Check that the brake pads of the rear brake are secured.  (p. 114)
- Check that the brake system is functioning properly.
- Check the coolant level.  (p. 134)
- Check the chain for dirt.  (p. 95)
- Check the chain, rear sprocket, engine sprocket, and chain guide.  (p. 97)
- Check the chain tension.  (p. 96)
- Check the tire condition.  (p. 123)
- Check the tire pressure.  (p. 123)
- Check the spoke tension.  (p. 124)

The spoke tension must be checked regularly as incorrect spoke tension will severely impair riding safety.

- Clean the dust boots of the fork legs.  (p. 61)
- Bleed the fork legs.  (p. 61)
- Check the air filter.
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check all screws, nuts, and hose clamps regularly for tightness.
- Check the fuel level.

8.2 Starting the vehicle



DANGER

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

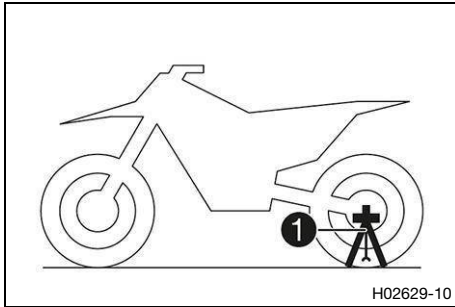
- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



NOTE

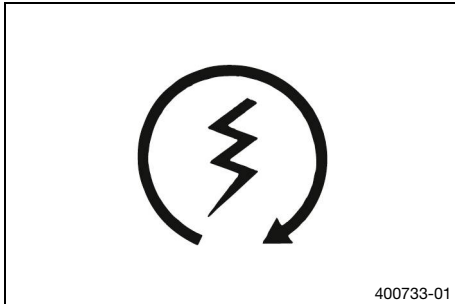
Engine failure Running a cold engine at high engine speeds negatively impacts the service life of the engine.

- Always warm up the engine at low engine speeds.



- Remove plug-in stand ①.
- Shift the transmission into the neutral position.

Condition: Ambient temperature: < 20 °C (< 68.0 °F)



- Press electric starter (⚡).

If the starting attempt is unsuccessful, wait for 15 seconds before making another attempt at starting.

After 6 unsuccessful starting attempts, do not try again, and check the vehicle for other malfunctions instead.

i Note

At low temperatures, wait for 30 seconds.

At temperatures below 6 °C (43 °F), several attempts at starting may be necessary to warm-up the lithium-ion battery and thereby increase the starting power.

The malfunction indicator light lights up during the starting process.

8.3 Activating launch control

i Note

The launch control helps the rider to generate optimum motorcycle acceleration at the beginning of a race. The maximum speed of the engine with the throttle valve fully opened (full throttle) is reduced. After the start, it is gradually increased up to the maximum engine speed. The clutch must be operated exactly as it would be without launch control activated.

Condition: Motorcycle is stationary, The engine is running at idle speed, The transmission is in the neutral position

8 Riding instructions



- Press and hold the TC button ① and the QS button ② simultaneously.
- ✓ The TC indicator lamp and the QS indicator lamp flash when launch control is activated.



Note

The launch control is deactivated automatically for a few seconds after the vehicle has started.

Launch control is also deactivated in the following cases: if the throttle valve is closed more than 1/3 of the way after full throttle, and/or if there is no start within 3 minutes.

For safety reasons, the engine must be switched off for at least 10 seconds before the launch control can be activated again, regardless of whether the vehicle has been started or not.

If the engine has already been running for some time, the engine must first be restarted before the launch control can be activated.

8.4 Activating traction control



Note

The traction control reduces excessive slip on the rear wheel in favor of more control and propulsion, particularly in wet conditions.

When traction control is switched off, the rear wheel may spin more during high acceleration and on surfaces with low grip.

Traction control can be switched on or off during the ride.

The setting most recently selected is activated again when restarting.



- Press the TC button ① to switch traction control on or off.

Engine speed	$\leq 4,000$ rpm (≤ 66.67 Hz)
--------------	--

- ✓ The TC indicator lamp lights up when traction control is activated.

8.5 Activating the Factory Start (Factory edition)

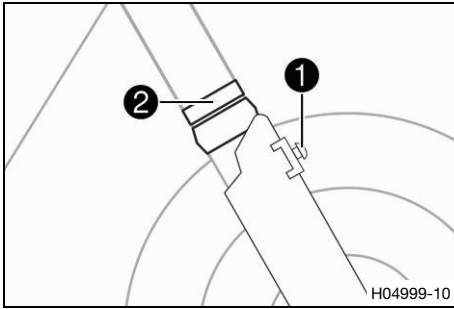


WARNING

Danger of accidents The Factory Start actuator may freeze up in cold weather. If the actuator freezes while Factory Start is activated, the fork will not decompress fully.

The greatly reduced suspension travel impairs the handling characteristic.

- Check that the actuator moves easily before activating the Factory Start.
- Activate the Factory Start shortly before starting.



- Check lock button ① to ensure it can move easily.
- Bend over the handlebars while sitting on the motorcycle.
- Grip the rim and compress the fork.
- Press lock button ① and decompress slowly until the lock button engages in snap ring ②.
- ✓ When the fork compresses for the first time, the lock button is released automatically.



8.6 Starting off



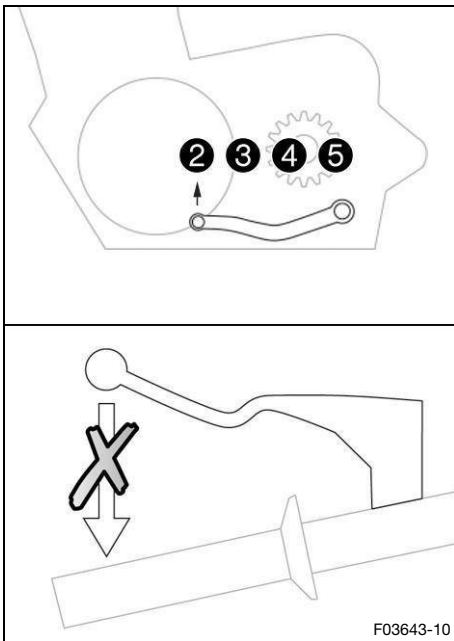
Note

The plug-in stand must be removed before riding.

- Pull the clutch lever, shift into first gear, release the clutch lever slowly and at the same time carefully open the throttle.



8.7 Quickshifter



When the **quickshifter** is activated, you can shift up without actuating the clutch.



Note

The quickshifter is not activated when shifting up from first to second gear, and the clutch lever must be used when shifting up instead.

Even if the quickshifter is activated, you need to use the clutch lever to shift down.

Because there is no need to close the throttle grip, uninterrupted gear shifts are possible.

The quickshifter uses the shifter shaft position to check whether or not a shift should be initiated, and sends a corresponding signal to the engine control.

If the quickshifter is deactivated, the clutch needs to be actuated in the normal way for each shift.

8.8 Activate the quickshifter



- Press the QS button ① to switch the quickshifter on or off.
 - ✓ The QS indicator lamp lights up when the quickshifter is activated.

i Note

The quickshifter is not activated when shifting up from first to second gear, and the clutch lever must be used when shifting up instead.

Even if the quickshifter is activated, you need to use the clutch lever to shift down.

8.9 Shifting, riding



WARNING

Danger of accidents If you downshift at high engine speed, the rear wheel blocks and the engine races.

- Do not downshift to a lower gear at high engine speeds.



Note

If you hear unusual noises while riding, stop immediately, switch off the engine, and contact an authorized contractual partner.

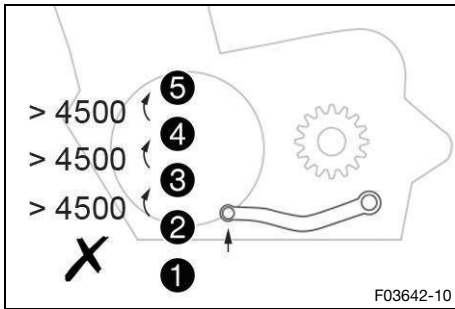
First gear is used for starting off or for steep inclines.

- Shift into a higher gear when conditions allow (incline, riding situation, etc.). To do so, release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch lever and open the throttle.
- If you pushed the cold start button while starting, open the throttle briefly and release the throttle twist grip or turn the throttle twist grip forward.
 - ✓ The cold start button goes to the basic position.
- After reaching maximum speed by fully opening the throttle twist grip, turn the throttle back so that it is $\frac{3}{4}$ open. This will reduce the speed slightly, but the fuel consumption will be considerably lower.
- Only open the throttle as much as the engine can handle. Abruptly opening the throttle increases fuel consumption.
- To shift down, brake and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and either open the throttle or shift again.
- Switch off the engine if you are likely to be running at idle speed or stationary for a long time.

≥ 1 min

- Avoid riding the clutch frequently or for too long. This causes the engine oil, engine and cooling system to heat up.
- Ride at a low engine speed instead of at a high engine speed when riding the clutch.

Condition: Quickshifter activated



- If the **quickshifter** is activated, you can shift up in the engine speed range shown without pulling the clutch lever.



Note

The quickshifter is not activated when shifting up from first to second gear, and the clutch lever must be used when shifting up instead.

The minimum engine speed before shifting up in revolutions per minute is shown in the figure.

Pull the shift lever to the stop quickly without changing the throttle twist grip position.

Even if the quickshifter is activated, you need to use the clutch lever to shift down.

If the shifting performance of the Quickshifter starts to decrease, it must be reprogrammed.

8.10 Braking



WARNING

Danger of accidents A spongy pressure point on the front or rear brake reduces the brake action.

- Do not drive the vehicle if the brake system has a spongy pressure point.



WARNING

Danger of accidents Braking with excessive force locks the wheels.

- Adapt your braking to the riding situation and the road conditions.



WARNING

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake pads and the brake discs.

- On sandy, wet, or slippery surfaces, use mostly the rear brake.
- Always finish braking before you go into a bend. Shift into a lower gear that suits the speed.
- Use the brake action of the engine on long downhill stretches. Shift down one or two gears, but do not overrev the engine when doing so. This means that significantly less braking is required and means the brake system does not overheat.

8.11 Stop, park



WARNING

Danger of burns Some vehicle components become hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, damper, or brake system before the vehicle parts have cooled down.
- Allow the vehicle parts to cool down before performing any work on the vehicle.



WARNING

Risk of injury People who act without authorization endanger themselves and others.

- Never leave the vehicle unattended while the engine is running.
- Secure the vehicle against unauthorized access.



NOTE

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

8 Riding instructions

- Do not park the vehicle near materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.



NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.

- Brake the motorcycle.
- Shift the transmission into the neutral position.
- Press kill button  when the engine is at idle speed until the engine stops.
- Park the motorcycle on firm ground.

8.12 Transportation



NOTE

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.



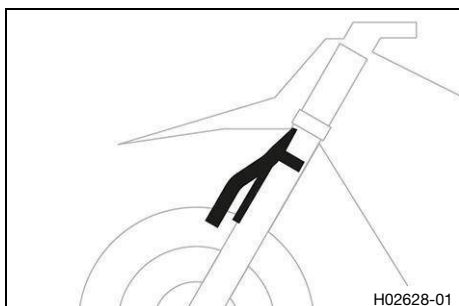
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



- Switch off the engine.
- Mount the plug-in stand on the fork legs.

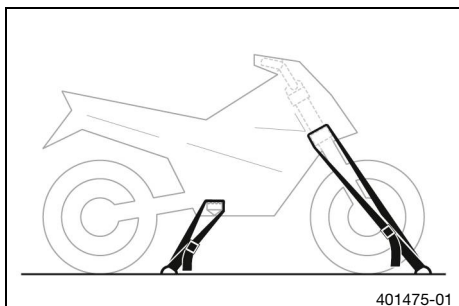
Make sure the brake line runs in front of the plug-in stand and does not become wedged.

Plug-in stand (A46029094000)



Note

The plug-in stand is included in the scope of supply.



- Use tension belts or other suitable devices to secure the motorcycle against falling over or rolling away.

Only tighten the tie downs to the point that the plug-in stand is firmly in contact with the fender and tires.

Make sure that the plug-in stand is aligned with the underside of the fender.

8.13 Refueling



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, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

Danger of poisoning Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



NOTE

Material damage Inadequate fuel quality can lead to losses in performance and consequential damage.

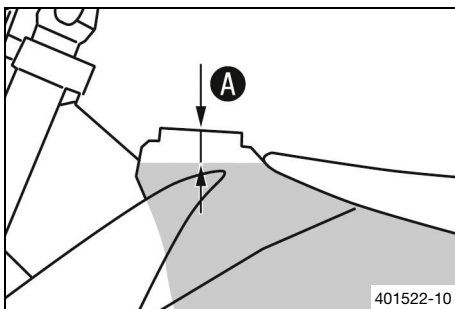
- Refuel only with clean fuel that meets the specified standards.



NOTE

Environmental hazard Improper handling of fuel is dangerous to the environment.

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



- Switch off the engine.
- Open the fuel tank cap. (p. 21)
- Fill the fuel tank with fuel no higher than **A**.

Level A	35 mm (1.38 in)
----------------	--------------------

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95) (p. 182)	7.2 l (1.90 liq. gal _{US})

- Close the fuel tank cap. (p. 22)

9 Service schedule

9.1 Service schedule

Any further work that results from the service work must be ordered separately and invoiced separately.

Different service intervals may apply in your country, depending on the local operating conditions.

If the vehicle is used in particularly harsh conditions such as heavy rain, mud, sand, snow, extreme temperatures, frequent full load etc., shorter service intervals than those in the table may be necessary.

Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule is available for authorized contractual partners for the electronic proof of service. Your authorized contractual partner will be happy to advise you.

	Every 24 months				
	Every 90 operating hours				
	Every 45 operating hours				
	Every 15 operating hours				
	After one operating hour				
Read out the fault memory using the diagnostics tool. 	○	●	●	●	●
Program the gear position sensor. 		●	●	●	
Check that the electrical equipment is functioning properly.	○	●	●	●	
Check and charge the 12 V battery. 	○	●	●	●	●
Check that the brake pads of the front brake are secured.  (p. 108)	○	●	●	●	●
Check that the brake pads of the rear brake are secured.  (p. 114)	○	●	●	●	●
Check the brake discs.  (p. 105)	○	●	●	●	●
Check the brake lines for damage and tightness.	○	●	●	●	●
Check the brake fluid level for the front brake.  (p. 106)	○	●	●		
Change the brake fluid for the front brake. 				●	●
Check the brake fluid level for the rear brake.  (p. 112)	○	●	●		
Change the brake fluid for the rear brake. 				●	●
Check/correct the fluid level of the hydraulic clutch.  (p. 102)			●		
Change the hydraulic clutch fluid.   (p. 103)				●	●
Check the free travel on the hand brake lever.  (p. 105)	○	●	●	●	●
Check the free travel of the brake pedal.  (p. 111)	○	●	●	●	●
Check the idle speed. 	○	●	●	●	●
Change the engine oil and oil filter, clean the oil screen.   (p. 146)	○	●	●	●	●
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and boots for cracking, leaks, and correct routing. 	○	●	●	●	●
Check the cables for damage and that there are no kinks in the routing. 		●	●	●	●
Check that the clutch cables are undamaged, routed without kinks, and set correctly. 		●	●	●	●
Check the frame.   (p. 100)		●	●	●	
Check the swingarm.   (p. 100)		●	●	●	
Check the swingarm bearing for play. 			●	●	
Check the heim joint on the shock absorber for play. 			●	●	
Check the shock absorber linkage. 		●	●	●	
Check the tire condition.  (p. 123)		●	●	●	●

	Every 24 months			
	Every 90 operating hours			
	Every 45 operating hours			
	Every 15 operating hours			
	After one operating hour			
Check the tire pressure.  (p. 123)		•	•	•
Check the wheel bearing for play. 		•	•	•
Check the hubs. 		•	•	•
Check the rim run-out. 	○	•	•	•
Check the spoke tension.  (p. 124)	○	•	•	•
Check the chain, rear sprocket, engine sprocket, and chain guide.  (p. 97)	○	•	•	•
Check the chain tension.  (p. 96)	○	•	•	•
Grease all moving parts (e.g., hand lever, chain, etc.) and check for smooth operation. 	○	•	•	•
Change the spark plug and spark plug connector. 			•	•
Check the valve clearance. 	○		•	•
Change the fuel filter. 				•
Check the clutch. 		•	•	•
Clean the air filter and air filter box.   (p. 85)		•	•	•
Change the damping material on the main silencer.   (p. 90)			•	•
Carry out fork service. 			•	•
Service the shock absorber. 			•	•
Check all screws, nuts, and hose clamps for a tight fit. 	○	•	•	•
Change the fuel screen.   (p. 144)	○	•	•	•
Check the fuel pressure. 	○		•	•
Check the frost protection and coolant level.  (p. 133)			•	•
Check the coolant level.  (p. 134)	○	•		
Change the coolant.  (p. 136)				•
Check the steering head bearing play.  (p. 74)	○	•		
Lubricate the steering head bearing.   (p. 76)			•	•
Perform minor engine service including removing and installing the engine. (Change the piston, check/measure the cylinder. Check the cylinder head. Check the camshaft and valve train components. Check the timing assembly. Change the radial shaft seals and water pump gasket. Change the intake flange. Change inlet sleeve.) 			•	•
Perform major engine service, engine is removed. (Change valves, valve springs, valve spring seats, and valve spring retainer. Change the connecting rod, conrod bearing and crank pin. Check the transmission and shift mechanism. Check the oil pressure control valve. Change the suction pump. Check the force pump and lubrication system. Change the timing chain. Change all engine bearings and all gaskets. Change the free-wheel.) 				•
Final check: check vehicle for operating safety. 	○	•	•	•
Take a test ride. 	○	•	•	•
Read out the fault memory after the test ride using the diagnostics tool. 	○	•	•	•

9 Service schedule

Every 24 months				
Every 90 operating hours				
Every 45 operating hours				
Every 15 operating hours				
After one operating hour				
Enter the electronic proof of service in the contractual partner portal. 				☐ ☒ ☒ ☒ ☒

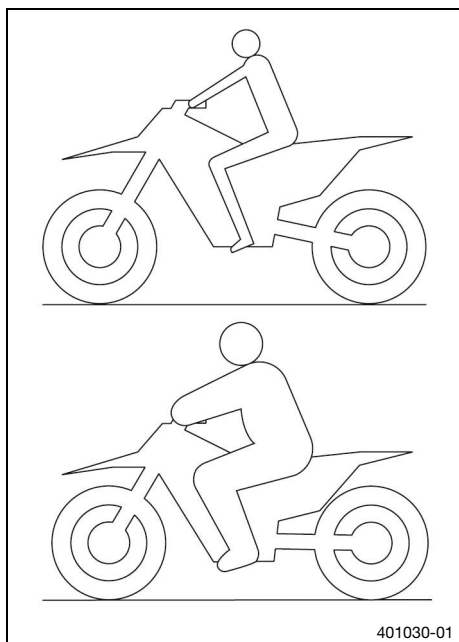
- ☐ One-time interval
- ☒ Periodic interval

10.1 Checking the basic chassis setting with the rider's weight



Note

When adjusting the basic chassis setting, first adjust the shock absorber and then the fork.



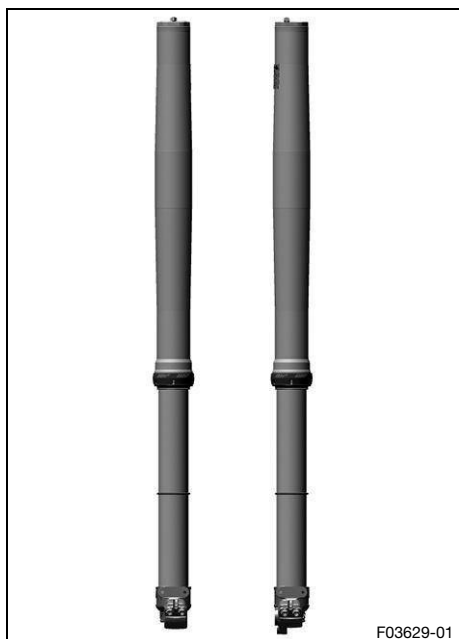
- For optimal motorcycle riding characteristics and to avoid damage to forks, shock absorbers, swingarm, and frame, the basic settings of the suspension components must match the rider's weight.
- In the delivered condition, Husqvarna motorcycles are adjusted for an average rider's weight (with full protective clothing).

Standard rider's weight	75 kg ... 85 kg (165.3 lb ... 187.4 lb)
-------------------------	--

- If the rider's weight is above or below this range, the basic setting of the suspension components must be adjusted accordingly.
- Small weight differences can be compensated by adjusting the spring pretension of the shock absorber, but in the case of large weight differences, the springs must be replaced.



10.2 Air suspension XACT (EU)



Air suspension **WP XACT** is used in the fork.

In this system, the suspension is located in the left fork leg and damping in the right fork leg.

As fork springs are no longer required, a significant weight advantage is achieved when compared to conventional forks. The response on slightly uneven surfaces is significantly improved.

In normal driving mode, suspension is provided exclusively by an air cushion. A steel spring is located in the left fork leg as an end stop.



Note

If the fork frequently bottoms out, then the fork air pressure must be increased to avoid damage to the fork and frame.

The air pressure in the fork can be quickly adjusted to the rider's weight, surface conditions, and the rider's preference using a fork air pump. The fork does not have to be dismantled. The time-consuming mounting of harder or softer fork springs is not required.

If the air chamber loses air due to a damaged seal, the fork will still not sag. In this case the air is retained in the fork. The suspension travel is maintained as far as possible. The damping becomes harder, and the riding comfort is reduced.

As with a conventional fork, the damping can be adjusted in rebound and compression stages.
The rebound adjustment is located at the lower end of the right fork leg.
The compression adjustment is located at the upper end of the right fork leg.

10.3 Compression damping of the shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed. High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.
The high-speed compression has an effect, for example, when landing after a jump: the rear wheel suspension compresses quickly.
The low-speed compression has an effect, for example, when riding over long bumps: the rear wheel suspension compresses slowly.
These two ranges can be adjusted separately, although the transition between high-speed and low-speed is floating. As a result, changes in the high-speed range affect the compression damping in the low-speed range and vice versa.

10.4 Adjusting the low-speed compression damping of the shock absorber



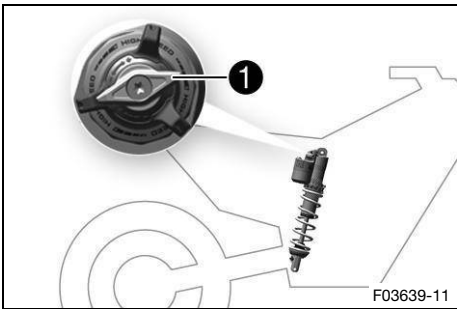
CAUTION
Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.
The shock absorber is filled with highly compressed nitrogen.
– Please follow the description provided.



Note
The effect of the low-speed compression adjuster can be seen in slow to normal compression of the shock absorber.

- Preparatory work**
- Remove the seat.  (p. 81)
 - Remove the right side fairing.  (p. 87)

- Main work (EU)**
- Turn adjusters **1** clockwise all the way to the stop.
 - Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

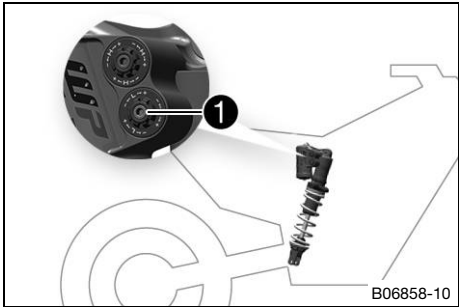


Low-speed compression damping (EU)	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks



Note
Turning clockwise increases damping; turning anticlockwise reduces damping.

(Factory edition)



- Turn adjusters ❶ clockwise up to the last perceptible click.



Note

The adjuster for low speed is labeled with the letter L.

- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Low-speed compression damping (Factory edition)	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks



Note

Turning clockwise increases damping; turning anticlockwise reduces damping.

Reworking

- Install the right side cover.  (p. 88)
- Mount the seat.  (p. 82)



10.5 Adjusting the high-speed compression damping of the shock absorber



CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.

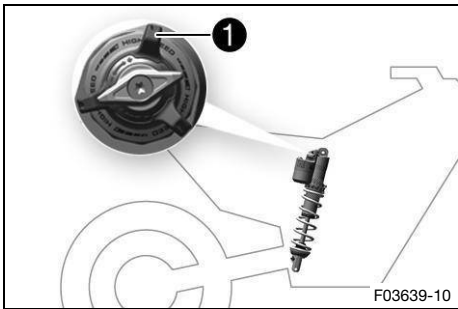


Note

The effect of the high-speed compression adjustment can be seen in the fast compression of the shock absorber.

Preparatory work

- Remove the seat.  (p. 81)
- Remove the right side fairing.  (p. 87)

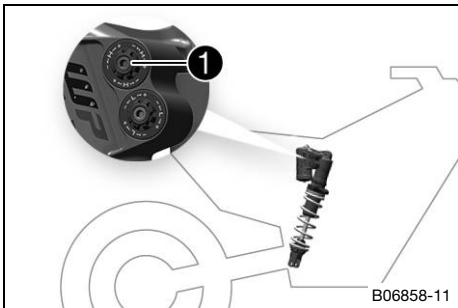


Main work
(EU)

- Turn adjusters ❶ clockwise all the way to the stop.
- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

High-speed compression damping (EU)	
Comfort	2 turns (720°)
Standard	1.5 turns (540°)
Sport	1 turn (360°)

i Note
Turning clockwise increases damping; turning anticlockwise reduces damping.



(Factory edition)

- Turn adjusters ❶ clockwise up to the last perceptible click.

i Note
The adjuster for high speed is labeled with the letter H.

- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

High-speed compression damping (Factory edition)	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks

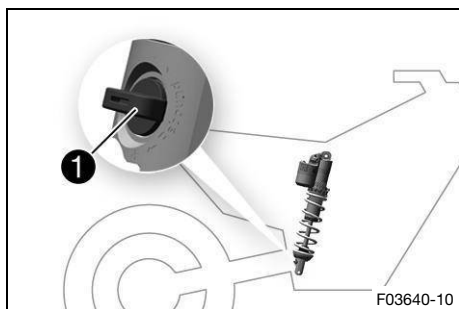
i Note
Turning clockwise increases damping; turning anticlockwise reduces damping.

Reworking

- Install the right side cover. 📖 (p. 88)
- Mount the seat. 📖 (p. 82)

10.6 Adjusting the rebound damping of the shock absorber (EU)

! CAUTION
Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.
The shock absorber is filled with highly compressed nitrogen.
– Please follow the description provided.



- Turn adjusters **1** clockwise up to the last perceptible click.
- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Rebound damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks

i Note
Turning clockwise increases damping; turning anti-clockwise reduces damping on rebound.



10.7 Adjusting the low-speed rebound damping of the shock absorber (Factory edition)

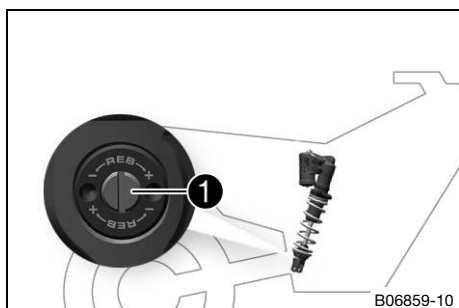


CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.



- Turn adjusters **1** clockwise up to the last perceptible click.

i Note
The adjuster for low speed is labeled with **REB**.

- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Low-speed rebound damping (Factory edition)	
Comfort	22 clicks
Standard	20 clicks
Sport	18 clicks

i Note
Turning clockwise increases damping; turning anti-clockwise reduces damping on rebound.



10.8 Adjusting the high-speed rebound damping of the shock absorber (Factory edition)



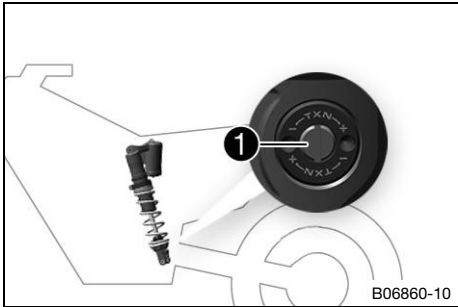
CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.

10 Tuning the chassis



- Turn adjusters 1 clockwise up to the last perceptible click.



Note
The adjuster for high speed is labeled with **TXN**.

- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

High-speed rebound damping (Factory edition)	
Comfort	10 clicks
Standard	10 clicks
Sport	10 clicks



Note
Turning clockwise increases damping; turning anti-clockwise reduces damping on rebound.

10.9 Measuring the dimension of the unloaded rear wheel

Preparatory work

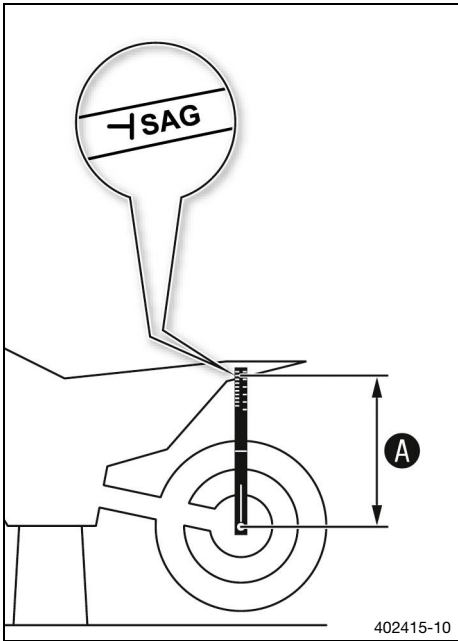
- Raise the motorcycle with a lift stand.  (p. 60)

Main work

- Position the sag gage in the rear axle and measure the distance to marking **SAG** on the rear fender.

Sag scale (00029090200)

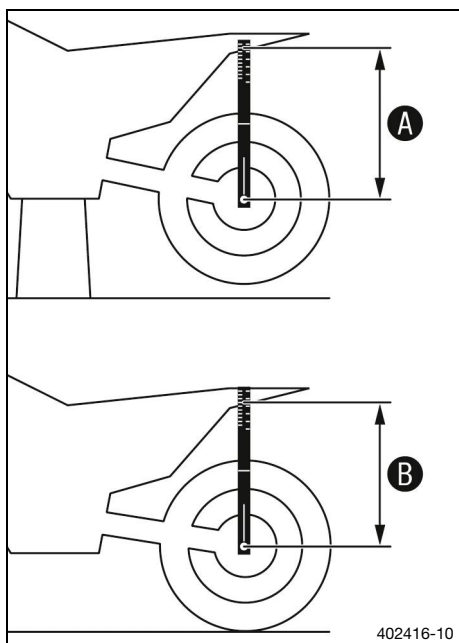
- Note the value as dimension **A**.



Reworking

- Remove the motorcycle from the lift stand.  (p. 60)

10.10 Checking the static sag of the shock absorber



- Measure the dimension of the unloaded rear wheel. (p. 46)
- Hold the motorcycle upright with aid of an assistant.
- Measure the distance again between the rear axle and marking **SAG** on the rear fender using the sag scale.
- Note the value as dimension **B**.



Note

The static sag is the difference between measurements **A** and **B**.

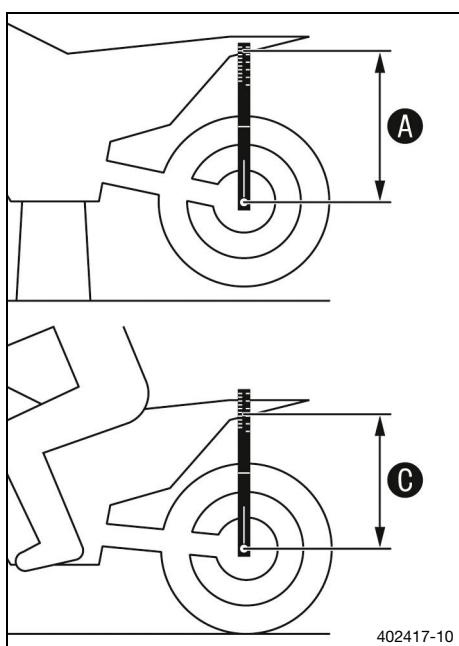
- Check the static sag.

Static sag (EU)	35 mm (1.38 in)
Static sag (Factory edition)	38 mm (1.50 in)

- » If the static sag is more or less than the specified value:
 - Adjust the preload for the shock absorber. (p. 48)



10.11 Checking the rider sag of the shock absorber



- Measure the dimension of the unloaded rear wheel. (p. 46)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal seating position (feet on footpegs) and bounces up and down a few times.
 - ✓ The rear wheel suspension levels out.
- With the help of another person, remeasure the distance between the rear axle and marking **SAG** on the rear fender using the sag scale.
- Note the value as dimension **C**.



Note

The rider sag is the difference between measurements **A** and **C**.

- Check the rider sag.

Rider sag (EU)	105 mm (4.13 in)
Rider sag (Factory edition)	105 mm (4.13 in)

- » If the rider sag differs from the specified measurement:
 - Adjust the rider sag. (p. 49)



10.12 Adjusting the preload for the shock absorber



CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.



Note

Note the current adjustment before changing the spring preload - e.g. measure the spring length.

- Preparatory work**
- Raise the motorcycle with a lift stand.  (p. 60)
 - Remove the frame protector.  (p. 65)
 - Remove the seat.  (p. 81)
 - Remove the right side fairing.  (p. 87)
 - Remove the muffler.  (p. 88)
 - Remove the shock absorber.   (p. 78)
 - After removing the shock absorber, clean it thoroughly.

- Main work (EU)**
- Loosen screw .
 - Turn adjusting ring  until the spring is no longer under tension.
- Hook wrench (90129051000)



Note

If the spring cannot be fully released, the spring must be removed to accurately measure the spring length.

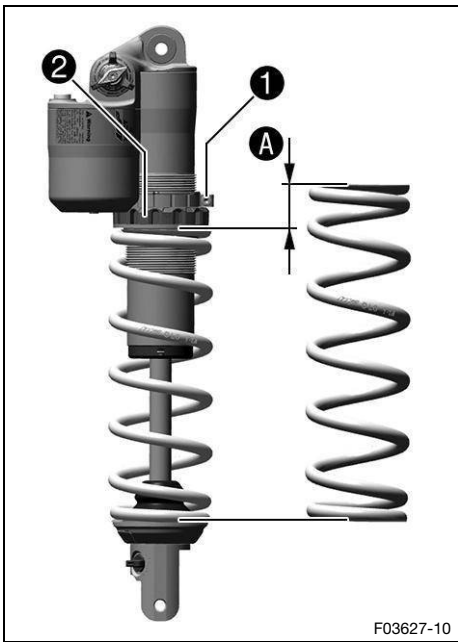
- Measure the total spring length while the spring is not under tension.
- Tension the spring by turning adjusting ring  to the specified degree .

Preload (EU)	8 mm (0.31 in)
--------------	-------------------



Note

Depending on the static sag and/or the rider sag, it may be necessary to increase or decrease the spring preload.



- Tighten screw ❶.

Screw, shock absorber adjusting ring	
M5	5 Nm (3.7 ft·lb.)

Make sure that the adjusting ring does not touch any other components when installed.

(Factory edition)

- Measure the full spring length while it is under tension and note down the value.
- Turn screw ❶ counterclockwise all the way until the spring is fully relieved of tension.



Note

If the spring cannot be fully released, the spring must be removed to accurately measure the spring length.

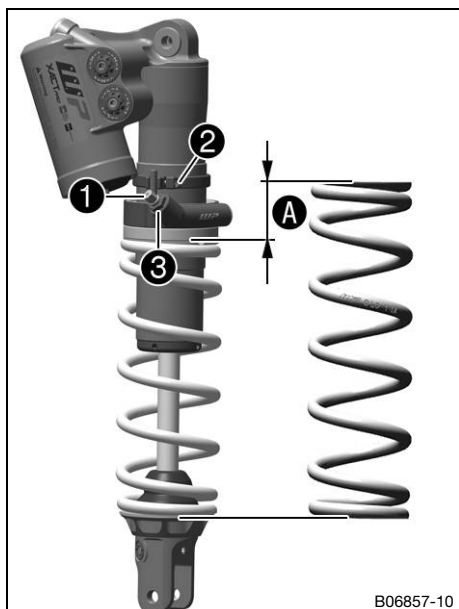
- Measure the total spring length while the spring is not under tension.
- Tighten the spring to specified dimension A by turning screw ❶.

Do not loosen screw ❷ and fitting ❸.	
Preload (Factory edition)	8 mm (0.31 in)



Note

Depending on the static sag and/or the rider sag, it may be necessary to increase or decrease the spring preload.



B06857-10

Reworking

- Install the shock absorber. 🛠️ 📖 (p. 80)
- Install the muffler. 📖 (p. 89)
- Install the right side cover. 📖 (p. 88)
- Mount the seat. 📖 (p. 82)
- Install the frame protector. 📖 (p. 65)
- Check the free travel of the brake pedal. 📖 (p. 111)
- Remove the motorcycle from the lift stand. 📖 (p. 60)



10.13 Adjusting the rider sag 🛠️

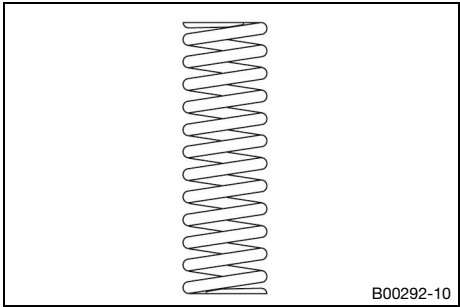
Preparatory work

- Raise the motorcycle with a lift stand. 📖 (p. 60)
- Remove the frame protector. 📖 (p. 65)
- Remove the seat. 📖 (p. 81)
- Remove the right side fairing. 📖 (p. 87)
- Remove the muffler. 📖 (p. 88)

- Remove the shock absorber.  (p. 78)
- After removing the shock absorber, clean it thoroughly.

Main work

- Select and mount a suitable spring.



Spring rate (EU)	
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	39 N/mm (222.7 lb _f /in)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	42 N/mm (239.8 lb _f /in)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	45 N/mm (257.0 lb _f /in)

Spring rate (Factory edition)	
Weight of rider: 55 kg ... 65 kg (121.3 lb ... 143.3 lb)	39 N/mm (222.7 lb _f /in)
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	42 N/mm (239.8 lb _f /in)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	45 N/mm (257.0 lb _f /in)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	48 N/mm (274.1 lb _f /in)
Weight of rider: 95 kg ... 105 kg (209.4 lb ... 231.5 lb)	51 N/mm (291.2 lb _f /in)

**Note**

The spring rate is shown on the outside of the spring.

Reworking

- Install the shock absorber.  (p. 80)
- Install the muffler.  (p. 89)
- Install the right side cover.  (p. 88)
- Mount the seat.  (p. 82)
- Install the frame protector.  (p. 65)
- Check the free travel of the brake pedal.  (p. 111)
- Remove the motorcycle from the lift stand.  (p. 60)
- Check the static sag of the shock absorber.  (p. 47)
- Check the rider sag of the shock absorber.  (p. 47)

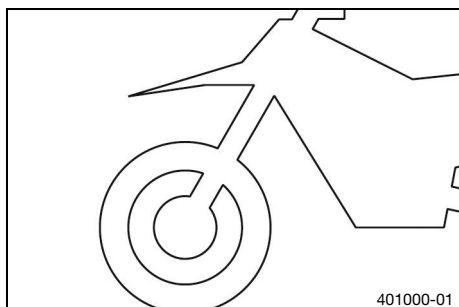
(EU)

- Adjust the rebound damping of the shock absorber.  (p. 44)
- Remove the motorcycle from the lift stand.  (p. 60)

10.14 Checking the basic setting of the fork

Note

For various reasons, no exact rider sag can be determined for the fork.



- Smaller differences in the rider's weight can be compensated for by the fork air pressure.
- However, if the fork frequently bottoms out (hard end stop on compression), the fork air pressure must be increased, within the specified values, to avoid damage to the fork and frame.
- If the fork feels unusually hard after extended periods of operation, the fork legs need to be bled.



10.15 Adjusting the fork air pressure (EU)



WARNING

Danger of accidents Modifications to the suspension settings that are not properly coordinated can impair the handling and overload components.

- Only make adjustments within the recommended range.
- Ride slowly to start with after making adjustments to get the feel of the new handling characteristics.



Note

Check or adjust the air pressure under the same conditions at the earliest 5 minutes after switching off the engine.

The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.

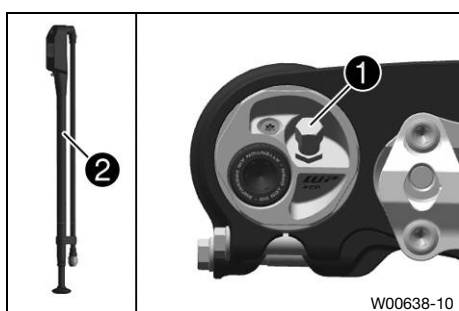
Preparatory work

- Raise the motorcycle with a lift stand.  (p. 60)

Main work

- Remove protection cap ①.
- Fully put fork air pump ② together.

Fork air pump (79412966100)



Note

The fork air pump is included as part of the motorcycle's accessory pack.

- Connect the fork air pump to the left fork leg.

Read the accompanying instructions.

- ✓ The fork air pump indicator switches on automatically.
- ✓ A little air escapes from the fork leg when connecting.

Note
This is due to the volume of the hose and is not due to a defect in the fork air pump or the fork.

- Adjust the air pressure as specified.

Do not set the air pressure outside the specified range.

Air pressure	
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	10.1 bar (146.5 psi)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	10.3 bar (149.4 psi)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	10.5 bar (152.3 psi)
Gradual change of the air pressure in steps by	0.2 bar (2.9 psi)
Minimum air pressure	7 bar (102 psi)
Maximum air pressure	12 bar (174 psi)

- Disconnect the fork air pump from the left fork leg.
 - ✓ When disconnecting, excess pressure will escape from the hose – the fork leg itself does not lose any air.
 - ✓ The fork air pump display switches off automatically after 80 seconds.
- Mount the protection cap.

Only mount the protection cap by hand.

Reworking

- Remove the motorcycle from the lift stand.  (p. 60)

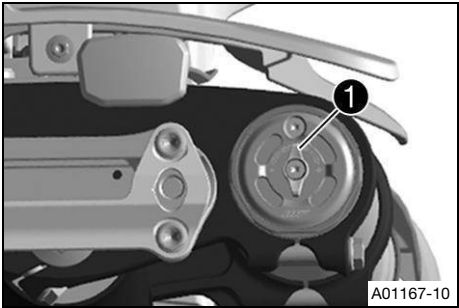
10.16 Adjusting the compression damping of the fork

Note
The hydraulic compression damping determines the fork suspension behavior.

(EU)

- Turn adjusters **1** clockwise all the way to the stop.

Note
Adjusters **1** are located at the top end of the fork legs.



- Turn counterclockwise by the number of clicks corresponding to the fork type.

Compression damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks

i Note
Turning clockwise increases damping; turning counterclockwise reduces damping during compression.

(Factory edition)

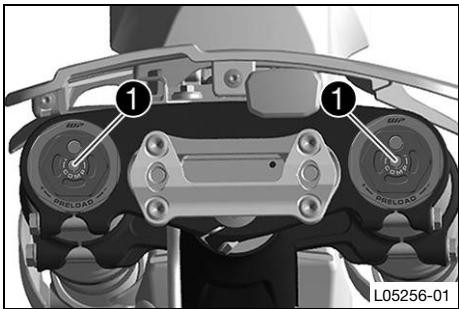
- Turn adjusters ❶ clockwise all the way to the stop.

i Note
Adjusters ❶ are located at the top end of the fork legs.

- Turn counterclockwise by the number of clicks corresponding to the fork type.

Compression damping	
Comfort	15 clicks
Standard	12 clicks
Sport	9 clicks

i Note
Turning clockwise increases damping; turning counterclockwise reduces damping during compression.



10.17 Adjusting the rebound damping of the fork

i Note
The hydraulic rebound damping determines the fork suspension behavior.

(EU)

- Turn adjusters ❶ clockwise all the way to the stop.

i Note
Adjuster ❶ is located at the lower end of the right fork leg.



10 Tuning the chassis

- Turn counterclockwise by the number of clicks corresponding to the fork type.

Rebound damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks

i Note
Turning clockwise increases damping; turning anticlockwise reduces damping on rebound.

(Factory edition)

- Remove protection caps ❶.
- Turn adjusters ❷ clockwise all the way to the stop.

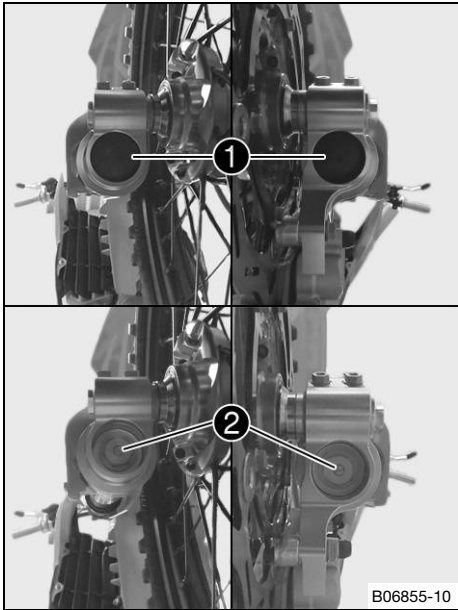
i Note
Adjusters ❷ are located at the bottom end of the fork legs.

- Turn counterclockwise by the number of clicks corresponding to the fork type.

Rebound damping	
Comfort	23 clicks
Standard	20 clicks
Sport	17 clicks

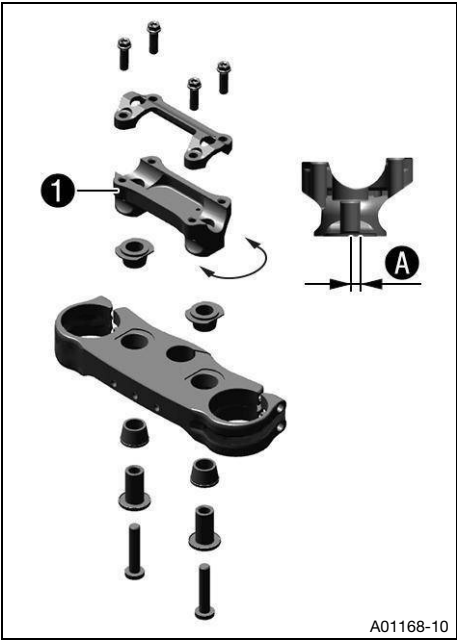
i Note
Turning clockwise increases damping; turning anticlockwise reduces damping on rebound.

- Mount protection caps ❶.



10.18 Handlebar position

(EU)



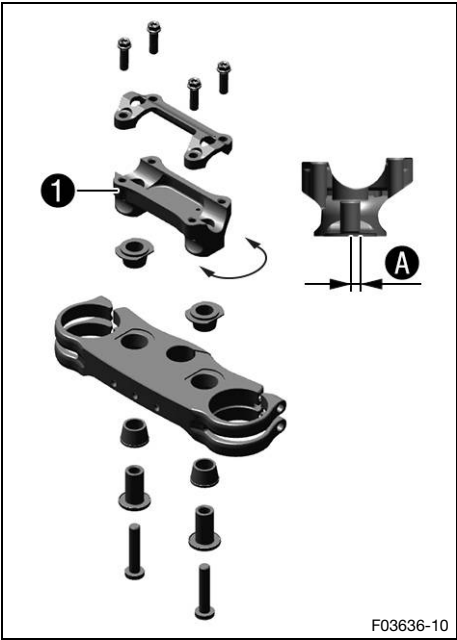
The holes on handlebar mount ❶ are placed at a distance of ❷ from the center.

Hole distance A	3.5 mm (0.138 in)
-----------------	----------------------

The handlebar can be mounted in 2 different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

Note
In addition, the handlebar can be mounted rigidly or on a rubber support.

(Factory edition)



The holes on handlebar mount ❶ are placed at a distance of ❷ from the center.

Hole distance A	3.5 mm (0.138 in)
-----------------	----------------------

The handlebar can be mounted in 2 different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

Note
In addition, the handlebar can be mounted rigidly or on a rubber support.

10.19 Adjusting the handlebar position

WARNING

Danger of accidents A repaired handlebar poses a safety risk.

If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.



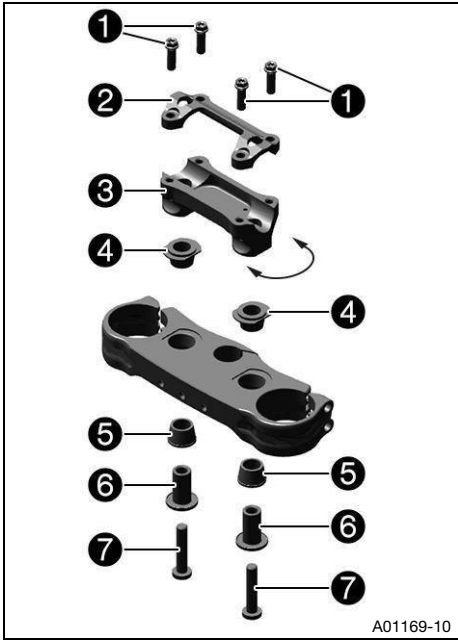
Note
The handlebar can be mounted rigidly or on a rubber bearing.

Preparatory work

- Remove the handlebar pad.

Main work

Adjusting the handlebar position with handlebar clamp with rubber bushings (EU)



- Remove screws ①.
- Remove handlebar clamp ②.
- Remove the handlebar and lay it to one side.

Protect the components against damage by covering them.

Do not kink the cables or lines.

- Remove screws ⑦ and bushings ⑥.
- Remove handlebar mount ③.
- Position the rubber bushings ④ and ⑤.
- Place the handlebar mount in the required position.



Note
The handlebar mount is longer and higher on one side.

- Mount screws ⑦ and bushings ⑥ and tighten.

Screw, handlebar mount	
M10	40 Nm (29.5 ft·lb _f) Loctite® 243

- Position the handlebar.

Make sure the cables and wiring are positioned correctly.

- Position handlebar clamp ②.
- Mount screws ①, but do not tighten yet.

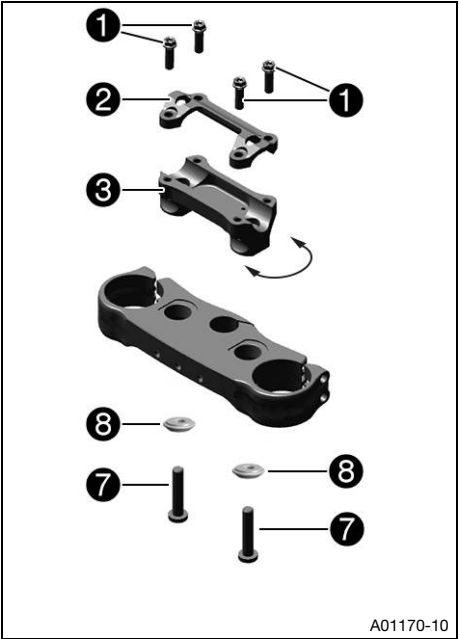
Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb _f)

- Tighten screws ① evenly.

First fasten the handlebar clamp with screws ① onto the longer, higher side of the handlebar mounts.

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb _f)

Adjusting the handlebar position with the rigid handlebar clamp (EU)



- Place the handlebar mount in the required position.



Note

The handlebar mount is longer and higher on one side.

- Mount screws 7 and bushings 8 and tighten.

Screw, handlebar mount	
M10	40 Nm (29.5 ft·lb) Loctite® 243

Rigid handlebar clamp bushing (A46001038010)	
--	--

✓ The conical side of the bushing faces downward.

- Position the handlebar.

Make sure the cables and wiring are positioned correctly.	
---	--

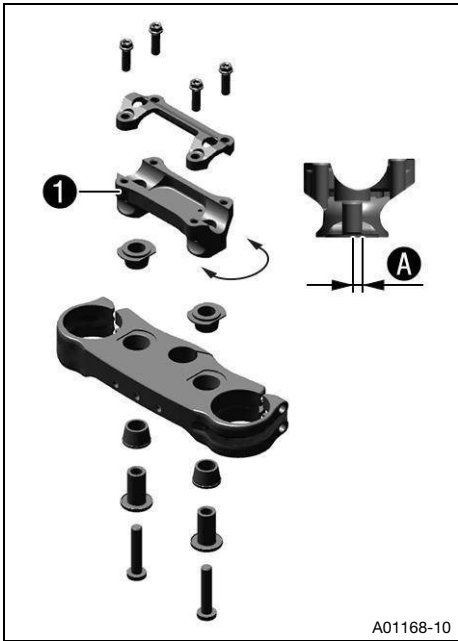
- Position handlebar clamp 2.
- Mount screws 1, but do not tighten yet.

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)

- Tighten screws 1 evenly.

First fasten the handlebar clamp with screws 1 onto the longer, higher side of the handlebar mounts.	
--	--

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)



Adjusting the handlebar position with handlebar clamp with rubber bushings
(Factory edition)

- Remove screws ❶.
- Remove handlebar clamp ❷. Remove the handlebar and lay it to one side.

Protect the components against damage by covering them.

Do not kink the cables or lines.

- Remove screws ❷ and bushings ❸.
- Remove handlebar mount ❹.
- Position the rubber bushings ❺ and ❻.
- Place the handlebar mount in the required position.

Note
The handlebar mount is longer and higher on one side.

- Mount screws ❷ and bushings ❸ and tighten.

Screw, handlebar mount	
M10	40 Nm (29.5 ft·lb) Loctite® 243

- Position the handlebar.

Make sure the cables and wiring are positioned correctly.

- Position handlebar clamp ❷.
- Mount screws ❶, but do not tighten yet.

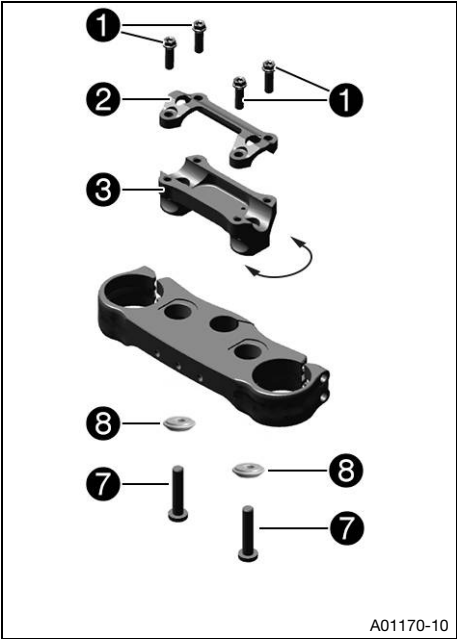
Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)

- Tighten screws ❶ evenly.

First bolt the handlebar clamp with screws ❶ onto the longer, higher side of the handlebar support so that both parts touch.

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)

Adjusting the handlebar position with the rigid handlebar clamp
(Factory edition)



- Place the handlebar mount in the required position.

Note
The handlebar mount is longer and higher on one side.

- Mount screws 7 and bushings 8 and tighten.

Screw, handlebar mount	
M10	40 Nm (29.5 ft·lb) Loctite® 243

Rigid handlebar clamp bushing (A46001038010)	
--	--

✓ The conical side of the bushing faces downward.

- Position the handlebar.

Make sure the cables and wiring are positioned correctly.

- Position handlebar clamp 2.
- Mount screws 1, but do not tighten yet.

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)

- Tighten screws 1 evenly.

First bolt the handlebar clamp with screws 1 onto the longer, higher side of the handlebar support so that both parts touch.

Handlebar clamp screw	
M8	20 Nm (14.8 ft·lb)

Reworking

- Mount the handlebar pad.



11.1 Raising the motorcycle with a lift stand



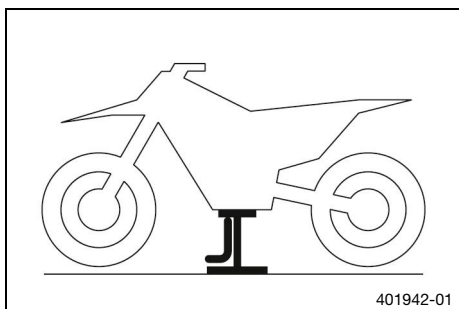
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.

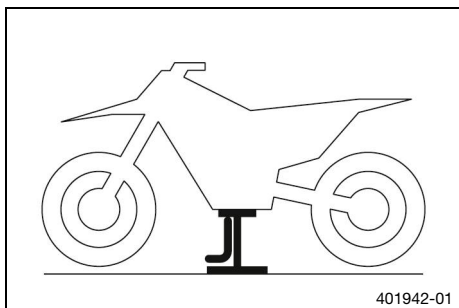


(EU)

- Raise the motorcycle at the frame underneath the engine.

Lift stand (81329955100)

- ✓ Neither wheel is in contact with the ground.
- Secure the motorcycle against falling over.



(Factory edition)

- Remove the plug-in stand and lift up the motorcycle by the motor guard underneath the engine.

Lift stand (78129955100)

- ✓ Neither wheel is in contact with the ground.
- Secure the motorcycle against falling over.

11.2 Removing the motorcycle from the lift stand



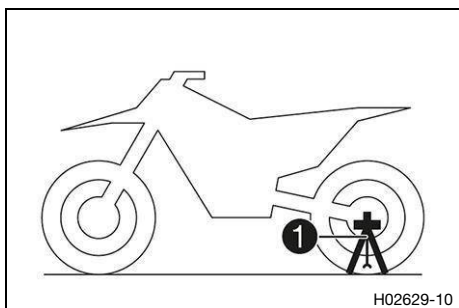
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand ① into the left side of the wheel spindle.

The plug-in stand must be removed before riding.

Plug-in stand (A46029094000)



Note

The plug-in stand is included in the scope of supply.

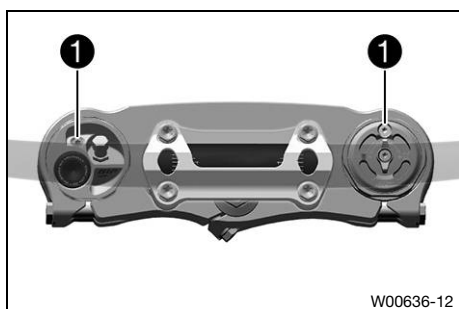
11.3 Bleeding the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)

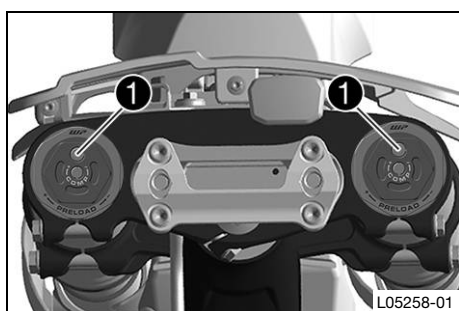
Main work (EU)

- Loosen bleeder screw ①.
- ✓ Any excess pressure escapes from the inner fork.
- Tighten the bleeder screw.



(Factory edition)

- Loosen bleeder screw ①.
- ✓ Any excess pressure escapes from the inner fork.
- Tighten the bleeder screw.



Reworking

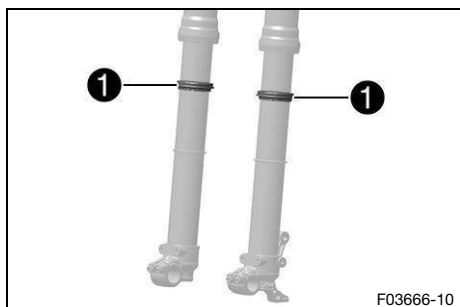
- Remove the motorcycle from the lift stand. (p. 60)

11.4 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)
- Remove the fork protector. (p. 62)

11 Service work on the chassis



Main work

- Push dust boot **1** downward on both fork legs.



Note

The dust boots should remove dust and coarse dirt particles from the inner fork tubes. Over time, dirt can accumulate behind the dust boots. If this dirt is not removed, the oil seals behind can start to leak.



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.

- Clean and oil the dust boots and the inner fork tube of both fork legs.

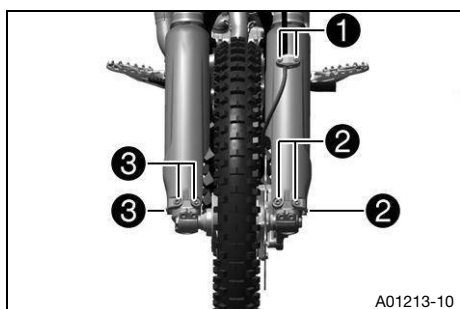
Universal oil spray (p. 183)

- Press the dust boots back into their installation position.
- Remove excess oil.

Reworking

- Install the fork protector. (p. 63)
- Remove the motorcycle from the lift stand. (p. 60)

11.5 Removing the fork protector

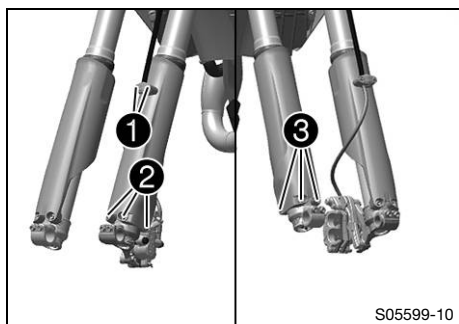


(EU)

- Remove screw **1** and take off the clamp.
- Remove screws **2** and take off the left fork protector.
- Remove screws **3** and take off the right fork protector.

(Factory edition)

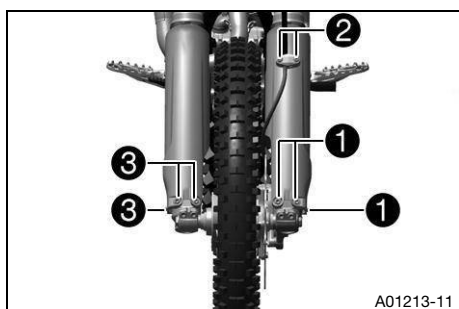
- Remove the front wheel. (p. 117)



- Remove screws ①.
- Take off the clamp.
- Remove screws ②.
- Take off the left fork protector.
- Remove screws ③.
- Remove the right fork protector.



11.6 Installing the fork protector



(EU)

- Position the fork protector on the left fork leg.
- Mount and tighten screws ①.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

- Position the brake line and the clamp.
- Mount and tighten screws ②.

Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _f)

- Position the fork protector on the right fork leg.
- Mount and tighten screws ③.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

(Factory edition)

- Position the fork protector on the left fork leg.
- Mount and tighten screws ①.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

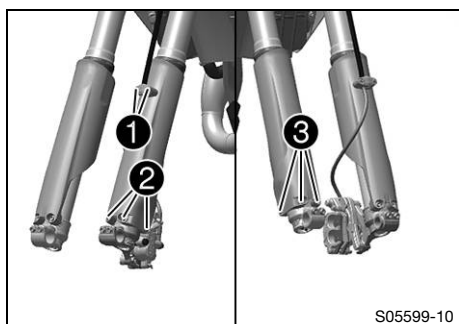
- Position the brake line and the clamp.
- Mount and tighten screws ②.

Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _f)

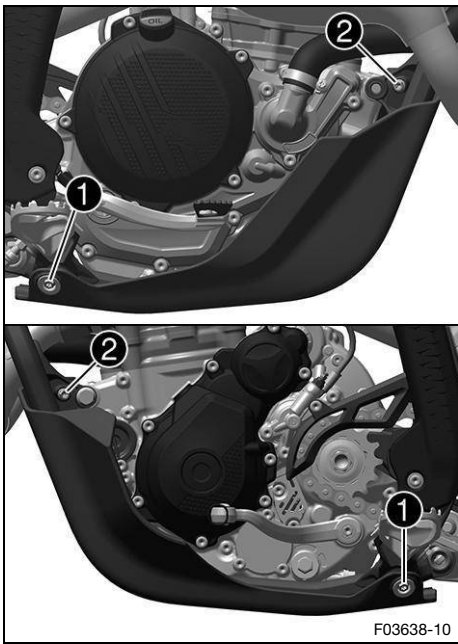
- Position the fork protector on the right fork leg.
- Mount and tighten screws ③.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

- Install the front wheel. (p. 118)

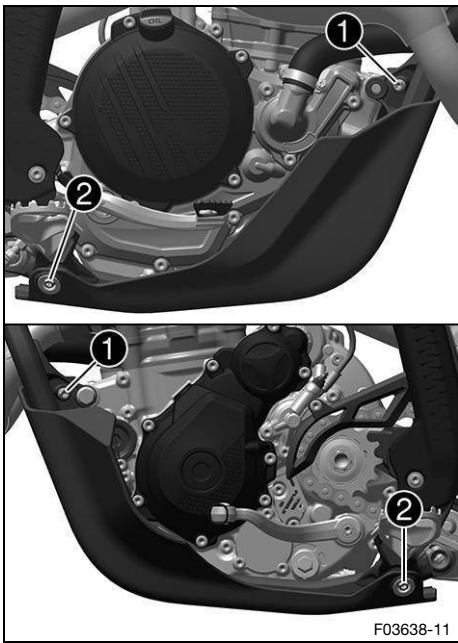


11.7 Removing the skid plate (Factory edition)



- Remove screws 1 and bushings.
- Remove screws 2.
- Take off the skid plate.

11.8 Installing the skid plate (Factory edition)



- Position the skid plate on the frame.
- Mount and tighten screws 1 but do not tighten yet.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

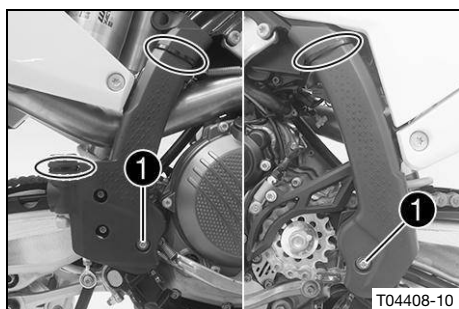
- Mount screws 2 with bushings, but do not tighten yet.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

- ✓ The skid plate is directed evenly toward the front.
- Tighten all the screws of the skid plate.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

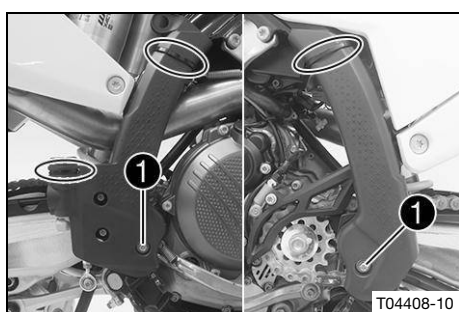
11.9 Removing the frame protector



- Remove the cable ties.
- Remove screws ① and bushings.
- Take off the left frame protector.
- Push the right frame protector to the front and take off at the bottom.



11.10 Installing the frame protector



- Position the left frame protector.
- Insert the right frame protector from below and push it to the rear.
- Mount screw ① and bushing and tighten.

Screw, frame protector	
M5	3 Nm (2.2 ft·lb _r)

- Secure the frame protector with cable ties.

Turn the head of the cable tie so far back that it does not touch any other components.

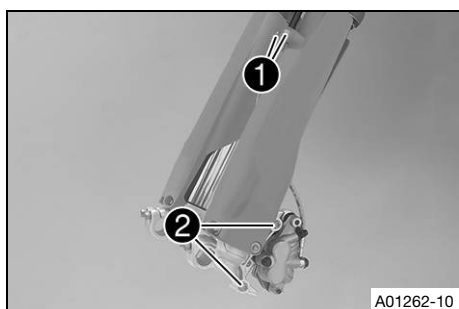


11.11 Removing the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)
- Remove the front wheel. (p. 117)

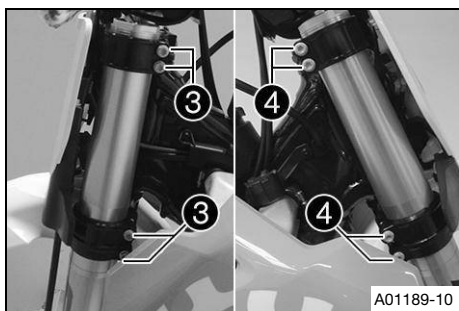
Main work (EU)



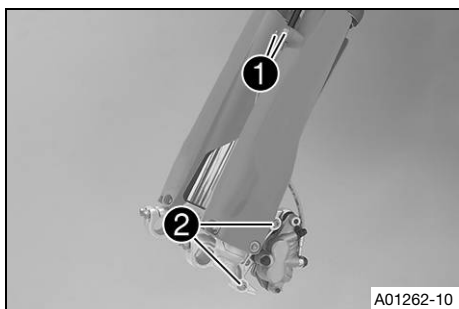
- Remove screw ① and take off the clamp.
- Remove screws ② and take off the brake caliper.
- Allow the brake caliper and the brake line to hang loosely to the side.

Do not actuate the hand brake lever when the front wheel is removed.

11 Service work on the chassis



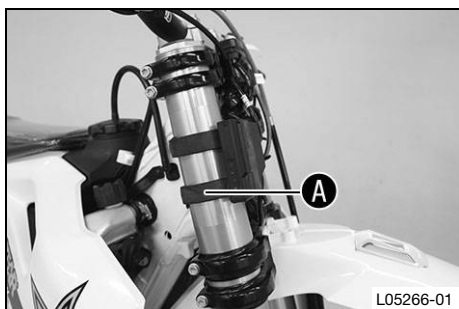
- Loosen screws ③. Remove the left fork leg.
- Loosen screws ④. Remove the right fork leg.



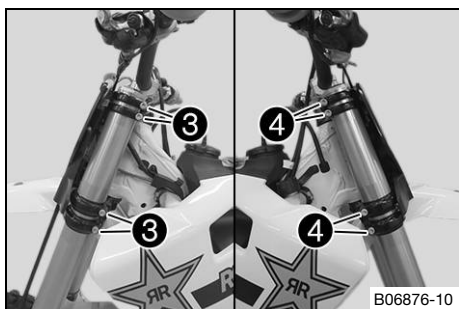
(Factory edition)

- Remove screw ① and take off the clamp.
- Remove screws ② and take off the brake caliper.
- Allow the brake caliper and the brake line to hang loosely to the side.

Do not actuate the hand brake lever when the front wheel is removed.



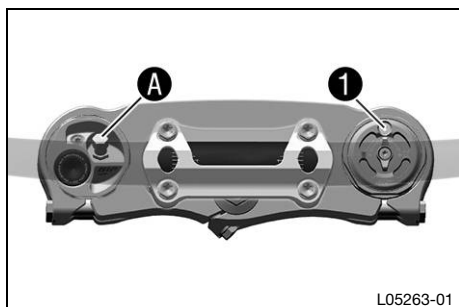
- Detach rubber strap A and the Connectivity Unit from the right fork leg and hang to the side.



- Loosen screws ③. Remove the left fork leg.
- Loosen screws ④. Remove the right fork leg.

11.12 Installing the fork legs

Main work (EU)



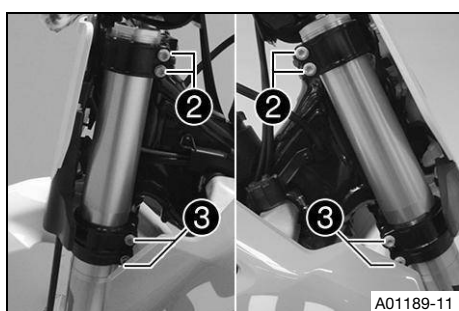
- Position the fork legs.
- ✓ Bleed screw **1** of the right fork leg is positioned to the front.
- ✓ Valve **A** of the left fork leg faces the front.



Note

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.

The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.

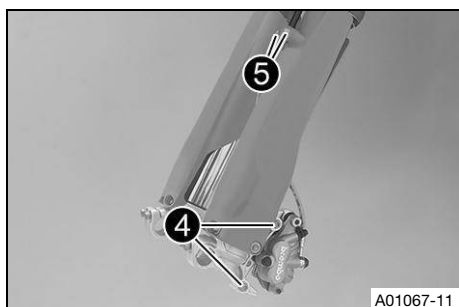


- Tighten screws **2**.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

- Tighten screws **3**.

Screw, bottom triple clamp	
M8	12 Nm (8.9 ft·lb _f)



- Position the brake caliper.
- Mount and tighten screws **4**.

Screw, front brake caliper	
M8	25 Nm (18.4 ft·lb _f) Loctite® 243

- Position the brake line and the clamp.
- Mount and tighten screws **5**.

Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _f)

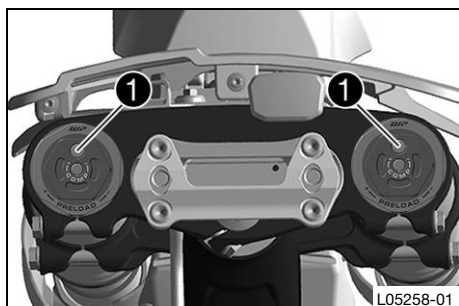
(Factory edition)

- Position the fork legs.
- ✓ Bleeder screws **1** are positioned toward the front.

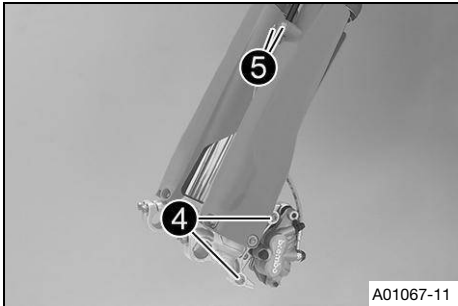
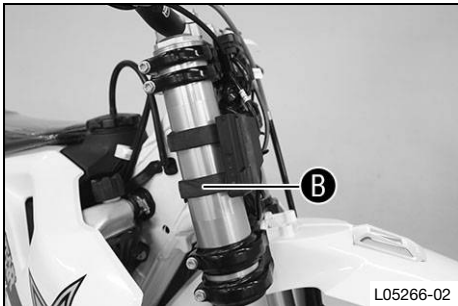
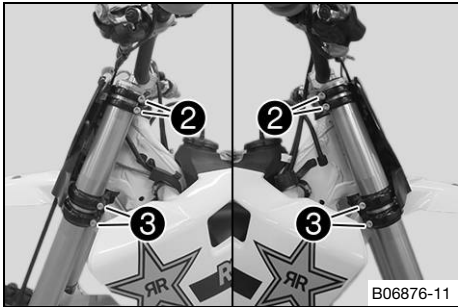


Note

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.



11 Service work on the chassis



- Tighten screws 2.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

- Tighten screws 3.

Screw, bottom triple clamp	
M8	12 Nm (8.9 ft·lb _f)

- Fit rubber strap B with the Connectivity Unit to the right fork leg.

Distance to the upper triple clamp	19 mm (0.75 in)
------------------------------------	--------------------

- Position the brake caliper.
- Mount and tighten screws 4.

Screw, front brake caliper	
M8	25 Nm (18.4 ft·lb _f) Loctite® 243

- Position the brake line and the clamp.
- Mount and tighten screws 5.

Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _f)

Reworking

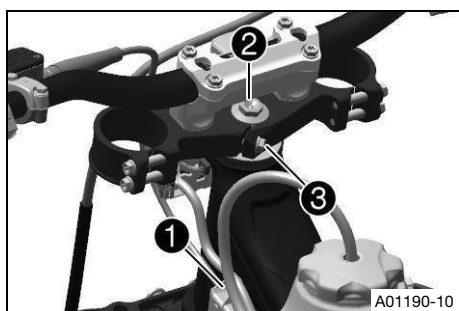
- Install the front wheel. (p. 118)

11.13 Removing the lower triple clamp

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)
- Remove the front wheel. (p. 117)
- Remove the fork legs. (p. 65)
- Remove the number plate. (p. 76)
- Remove the front top fender. (p. 77)
- Remove the handlebar pad.

Main work (EU)



- Remove screw ①. Detach the wiring harness.
- Remove screw ②.
- Remove screw ③.
- Take off the upper triple clamp and handlebar and set it aside.

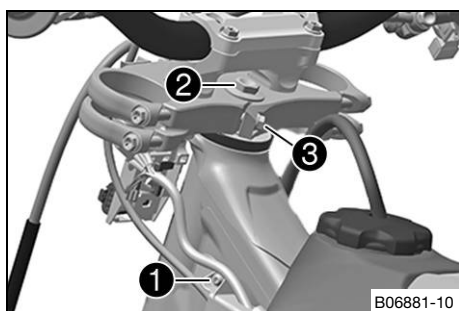
Protect the components against damage by covering them.

Do not kink the cables or lines.



- Remove steering head seal ④.
- Remove the steering stem from the lower triple clamp.
- Remove the upper steering head bearing.

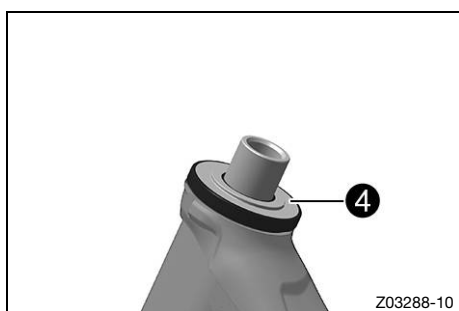
(Factory edition)



- Remove screw ①.
- Detach the wiring harness.
- Remove screw ②.
- Remove screw ③.
- Take off the upper triple clamp with the handlebar and place to one side.

Protect the components against damage by covering them.

Do not kink the cables or lines.



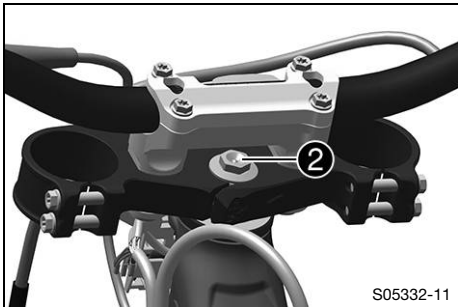
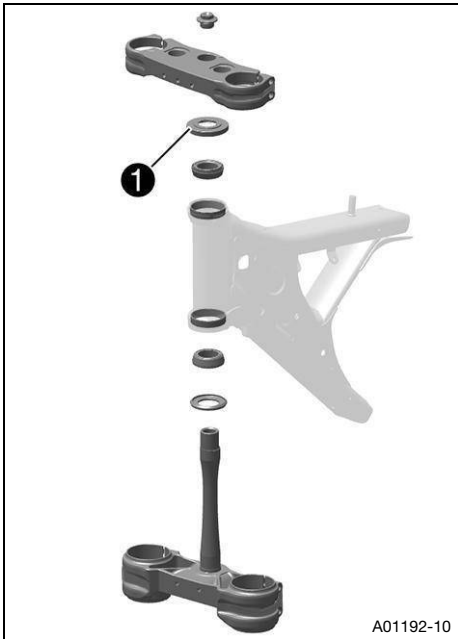
- Remove steering head seal ④.
- Remove the steering stem from the lower triple clamp.
- Remove the upper steering head bearing.



11.14 Installing the lower triple clamp

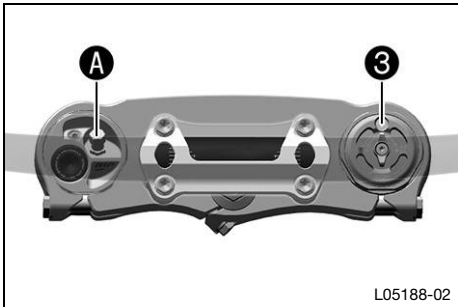
Main work
(EU)

- Clean the bearing and sealing elements, check for damage, and grease.
- High viscosity grease  (p. 183)
- Insert the lower triple clamp with the steering stem.
 - Mount the upper steering head bearing.
 - Push on steering head seal **1**.



- Position the upper triple clamp and handlebar.
- Mount screw **2**, but do not tighten yet.

Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _f)



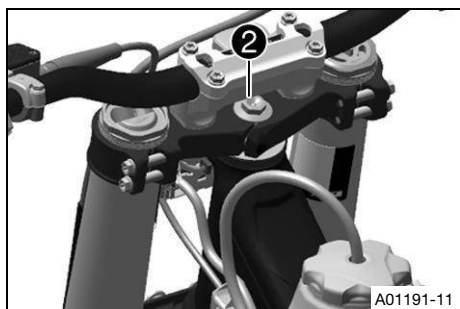
- Position the fork legs.
- ✓ Bleed screw **3** of the right fork leg is positioned to the front.
- ✓ Valve **A** of the left fork leg faces the front.



Note

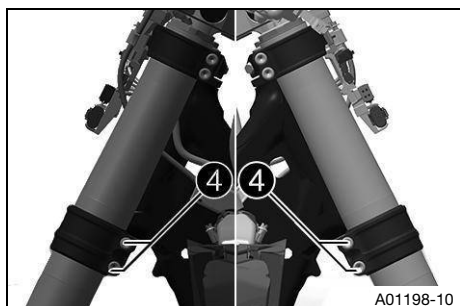
Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.

The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.



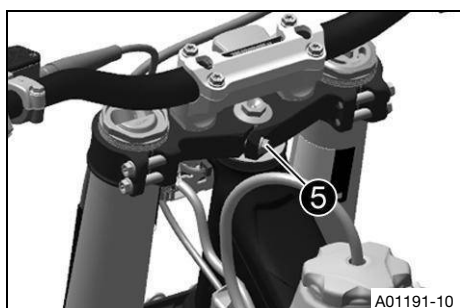
- Tighten screw ②.

Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _f)



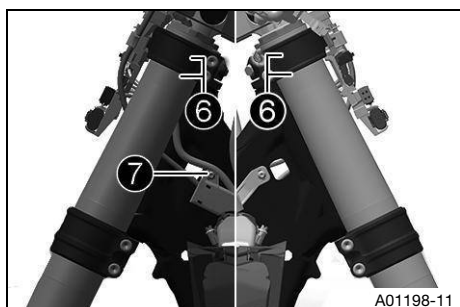
- Tighten screws ④.

Screw, bottom triple clamp	
M8	12 Nm (8.9 ft·lb _f)



- Mount and tighten screw ⑤.

Screw, upper steering stem	
M8	20 Nm (14.8 ft·lb _f) Loctite® 243



- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.

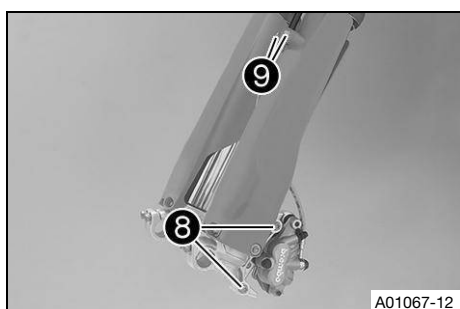
- Tighten screws ⑥.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

- Secure the wiring harness with the left cable bracket.

- Mount and tighten screw ⑦.

Remaining screws on chassis	
M5	5 Nm (3.7 ft·lb _f)



- Position the brake caliper.

- Mount and tighten screws ⑧.

Screw, front brake caliper	
M8	25 Nm (18.4 ft·lb _f) Loctite® 243

- Position the brake line and the clamp.
- Mount and tighten screws 9.

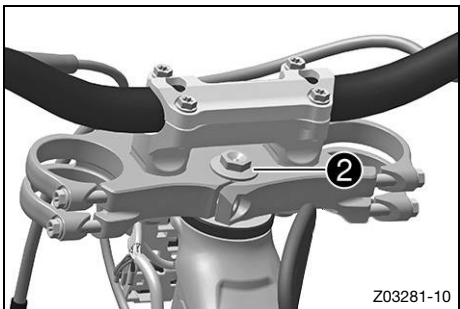
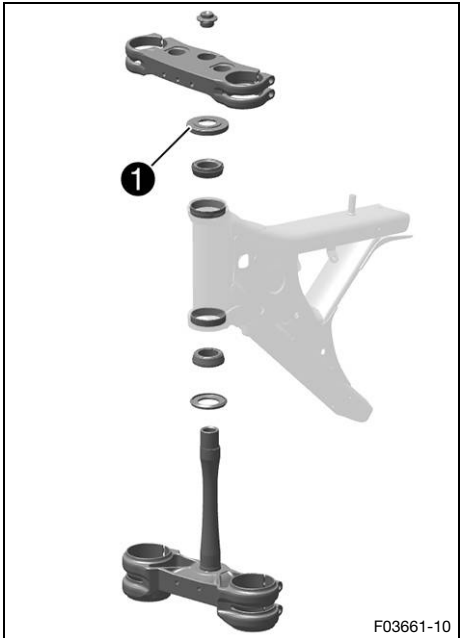
Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _r)

(Factory edition)

- Clean the bearing and sealing elements, check for damage, and grease.

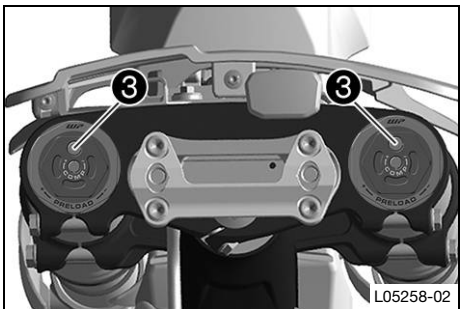
High viscosity grease  (p. 183)
--

- Insert the lower triple clamp with the steering stem.
- Mount the upper steering head bearing.
- Push on steering head seal 1.



- Position the upper triple clamp and handlebar.
- Mount screw 2, but do not tighten yet.

Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _r)

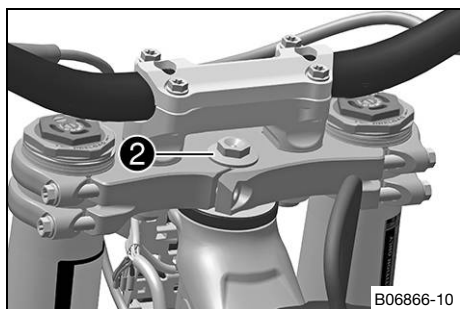


- Position the fork legs.
- ✓ Bleeder screws 3 of the fork legs are positioned toward the front.

 **Note**

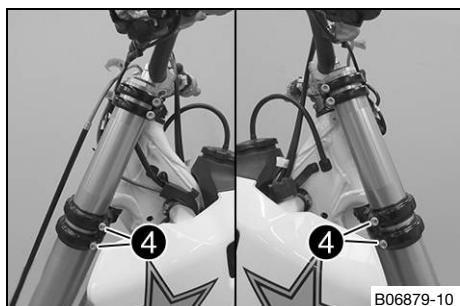
Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.

The compression and rebound damping is located on both fork legs.



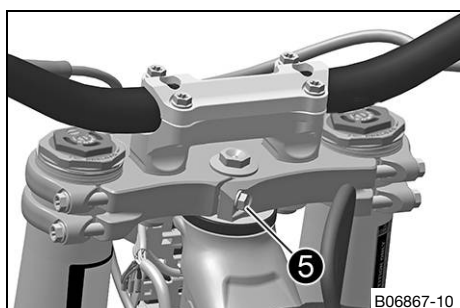
- Tighten screw ②.

Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _f)



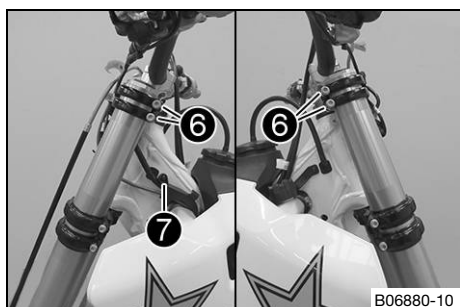
- Tighten screws ④.

Screw, bottom triple clamp	
M8	12 Nm (8.9 ft·lb _f)



- Mount and tighten screw ⑤.

Screw, upper steering stem	
M8	20 Nm (14.8 ft·lb _f) Loctite® 243



- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.

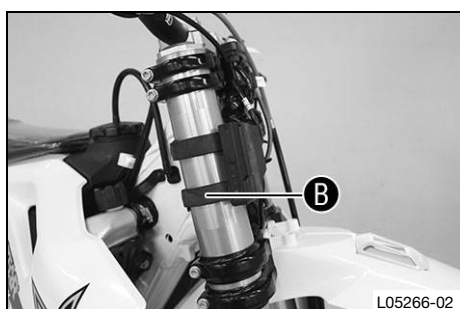
- Tighten screws ⑥.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

- Secure the wiring harness with the left cable bracket.

- Mount and tighten screw ⑦.

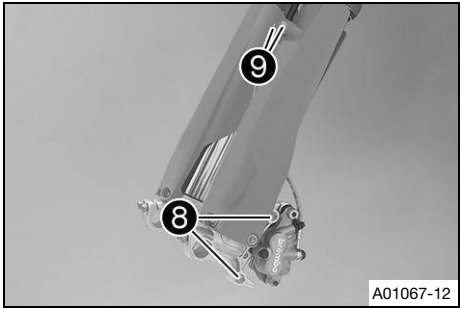
Remaining screws on chassis	
M5	5 Nm (3.7 ft·lb _f)



- Fit rubber strap ⑧ with the Connectivity Unit to the right fork leg.

Distance to the upper triple clamp	19 mm (0.75 in)
------------------------------------	--------------------

11 Service work on the chassis



- Position the brake caliper.
- Mount and tighten screws **8**.

Screw, front brake caliper	
M8	25 Nm (18.4 ft·lb _f) Loctite® 243

- Position the brake line and the clamp.
- Mount and tighten screws **9**.

Remaining screws on chassis	
EJOT PT® – K60×25 – Z	2 Nm (1.5 ft·lb _f)

Reworking

- Install the front top fender. 📖 (p. 78)
- Mount the handlebar pad.
- Mount the number plate. 📖 (p. 77)
- Install the front wheel. 🛠️ 📖 (p. 118)
- Check the wiring harness, cables, and brake and clutch lines for freedom of movement and correct routing.
- Check the steering head bearing play. 📖 (p. 74)
- Remove the motorcycle from the lift stand. 📖 (p. 60)

11.15 Checking the steering head bearing play



WARNING

Danger of accidents Incorrect steering head bearing play can impair the handling characteristic and damage components.

- Correct incorrect steering head bearing play immediately.



Note

If the vehicle is operated for a lengthy period with play in the steering head bearing, the bearings and the bearing seats in the frame can become damaged.

Preparatory work

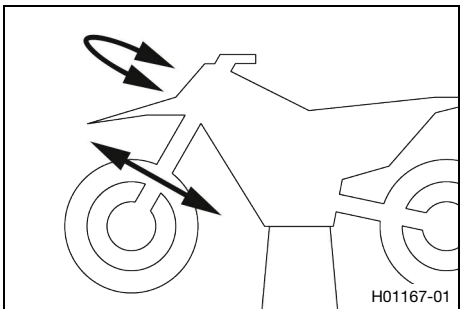
- Raise the motorcycle with a lift stand. 📖 (p. 60)

Main work

- Move the handlebar to the straight-ahead position. Move the fork legs to and fro in the direction of travel.

Play should not be detectable on the steering head bearing.

- » If there is detectable play:
 - Adjust the steering head bearing play. 🛠️ 📖 (p. 75)



- Move the handlebar back and forth over the entire steering range.

It must be possible to move the handlebar easily over the entire steering range. There should be no detectable detent positions.

- » If detent positions are detected:
 - Adjust the steering head bearing play. 🛠️📖 (p. 75)
 - Check the steering head bearing and adjust if necessary.

Reworking

- Remove the motorcycle from the lift stand. 📖 (p. 60)

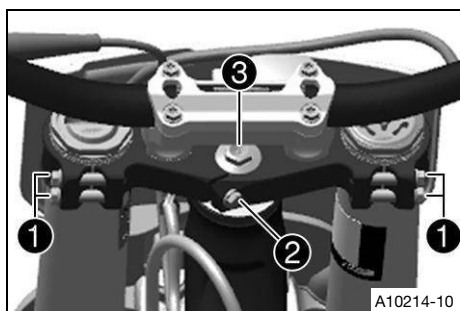


11.16 Adjusting the steering head bearing play 🛠️

Preparatory work

- Raise the motorcycle with a lift stand. 📖 (p. 60)
- Remove the handlebar pad.

Main work (EU)



- Loosen screws ❶.
- Remove screw ❷.
- Loosen and retighten screw ❸.

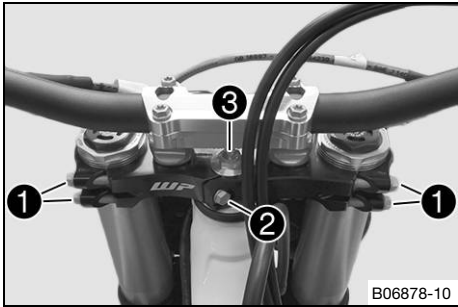
Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _f)

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws ❶.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

- Mount and tighten screw ❷.

Screw, upper steering stem	
M8	20 Nm (14.8 ft·lb _f) Loctite® 243



(Factory edition)

- Loosen screws 1.
- Remove screw 2.
- Loosen and retighten screw 3.

Screw, top steering head	
M20×1.5	12 Nm (8.9 ft·lb _f)

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws 1.

Screw, top triple clamp	
M8	17 Nm (12.5 ft·lb _f)

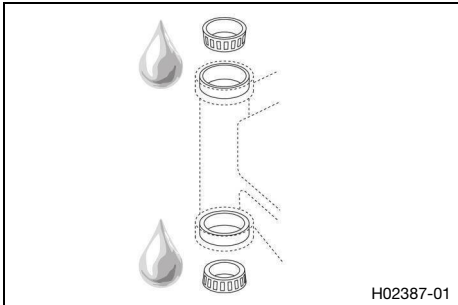
- Mount and tighten screw 2.

Screw, upper steering stem	
M8	20 Nm (14.8 ft·lb _f) Loctite® 243

Reworking

- Check the steering head bearing play. 📖 (p. 74)
- Remove the motorcycle from the lift stand. 📖 (p. 60)
- Mount the handlebar pad.

11.17 Lubricating the steering head bearing 🛠️

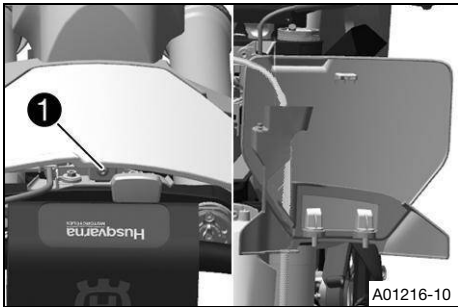


- Remove the lower triple clamp. 🛠️ 📖 (p. 68)
- Install the lower triple clamp. 🛠️ 📖 (p. 70)

**Note**

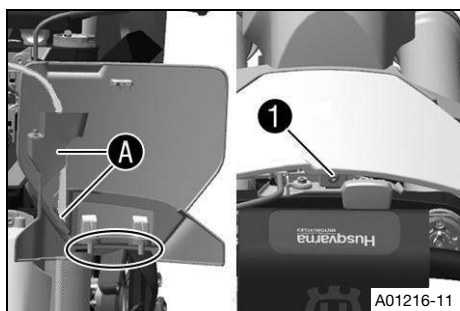
The steering head bearing is cleaned and lubricated in the course of removal and installation of the lower triple clamp.

11.18 Removing the number plate



- Remove screw 1.
- Unhook the number plate from the brake line and remove it.

11.19 Mounting the number plate



- Position the brake line in holders **A** on the number plate.
- Position the number plate.
- ✓ The holding lugs engage in the fender.
- Mount and tighten screw **1**.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)



11.20 Removing the front top fender

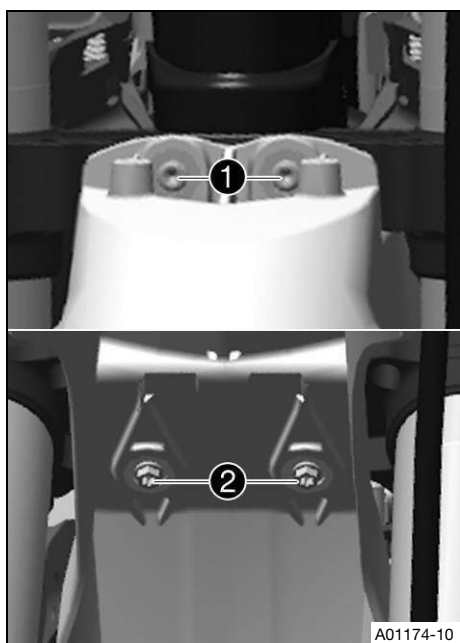
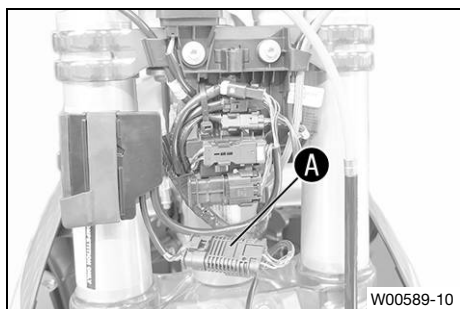
Preparatory work

- Remove the number plate. (p. 76)

Main work

(Factory edition)

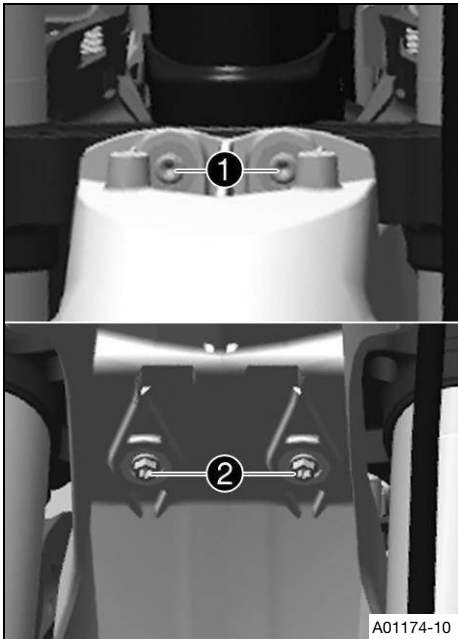
- Disconnect plug-in connector **A** (antenna of the Connectivity Unit).



- Remove screws **1** and **2**.
- Remove the front fender.



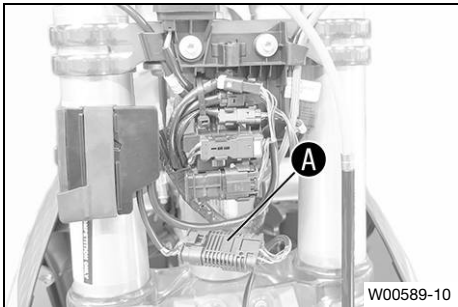
11.21 Installing the front top fender



Main work

- Position the front fender.
- Mount and tighten screws 1 and 2.

Fender screw	
M6	12 Nm (8.9 ft·lb _f)



(Factory edition)

- Disconnect plug-in connector A (antenna of the Connectivity Unit).

Reworking

- Mount the number plate.  (p. 77)

11.22 Removing the shock absorber

Preparatory work

- Raise the motorcycle with a lift stand.  (p. 60)
- Remove the frame protector.  (p. 65)
- Remove the seat.  (p. 81)
- Remove the right side fairing.  (p. 87)
- Remove the muffler.  (p. 88)

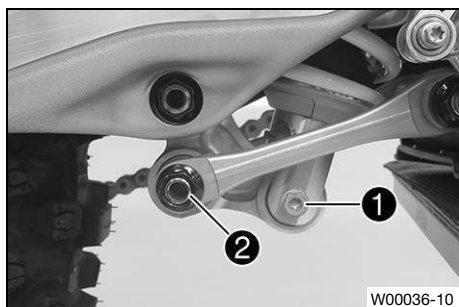
Main work

- Remove screw ①.
- Remove screw connection ②.

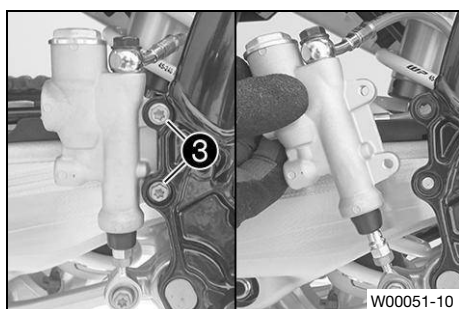


Tip

Raise the swingarm slightly to be able to remove the screws more easily.



- Remove screws ③.
- Pull rear brake cylinder off of the push rod.

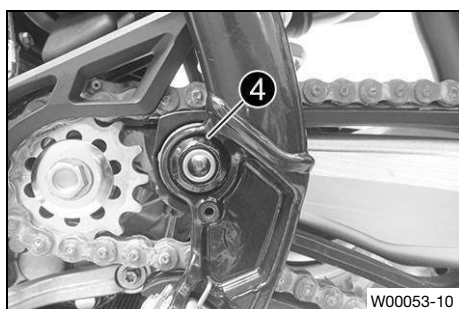


- Remove the connecting link on the chain.
- Take off the chain.

Protect the components against damage by covering them.



- Remove nut ④ and the swingarm pivot.
- Push the swingarm back and secure it against falling over.



- Hold the shock absorber and remove screw ⑤.
- Remove the shock absorber carefully at the bottom.

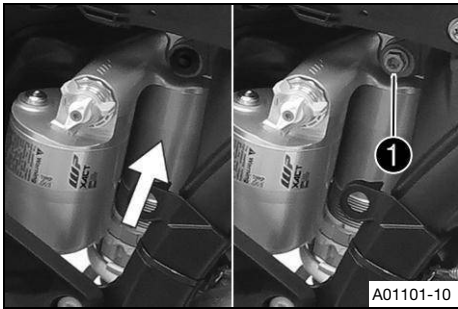


11.23 Installing the shock absorber

Main work

- Carefully position the shock absorber into the vehicle from the bottom.
- Mount and tighten screw ①.

Top shock absorber screw	
M10	60 Nm (44.3 ft·lb _f) Loctite® 2701

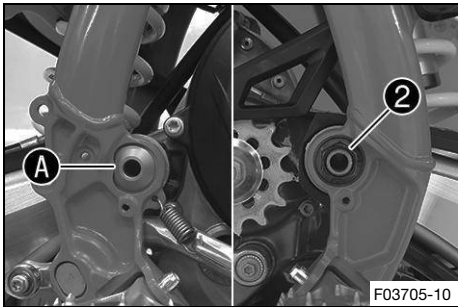


- Position the swingarm and fit the swingarm pivot.

Pay attention to flat area ①.

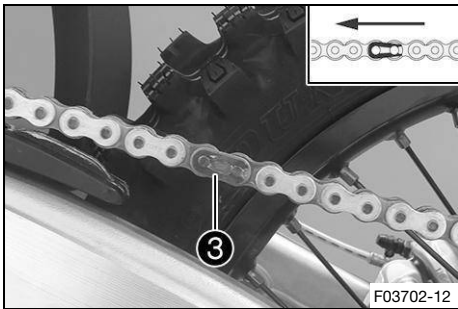
- Mount and tighten nut ②.

Nut, swingarm pivot	
M16×1.5	100 Nm (73.8 ft·lb _f)



- Mount the chain.
- Connect the chain with connecting link ③.

The closed side of the master link clip must face in the direction of travel.



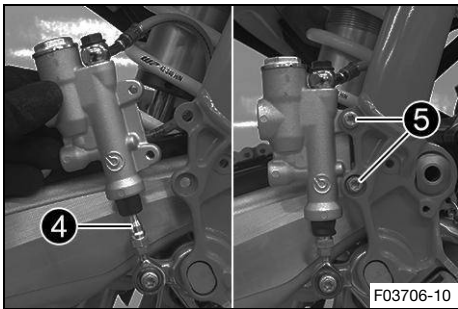
- Position the rear brake cylinder.

Ensure that the dust boot is properly seated.

- ✓ Push rod ④ engages in the brake cylinder.

- Mount and tighten screws ⑤.

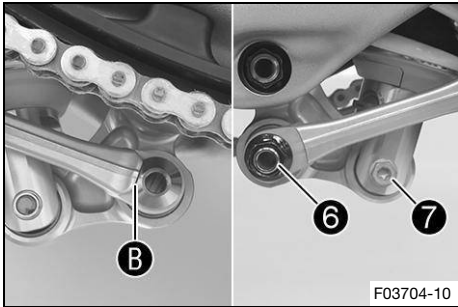
Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)



- Position the power valve control lever and linkage lever.
- Mount and tighten screw connection ⑥.

Pay attention to flat area ①.

Nut, linkage lever on angle lever	
M14×1.5	60 Nm (44.3 ft·lb _f)





Tip

Raise the swingarm slightly to be able to mount the screw more easily.

- Mount and tighten screw ⑦.

Bottom shock absorber screw	
M14	60 Nm (44.3 ft·lb) Loctite® 2701

Reworking

- Install the muffler. 📖 (p. 89)
- Install the right side cover. 📖 (p. 88)
- Mount the seat. 📖 (p. 82)
- Install the frame protector. 📖 (p. 65)
- Check the free travel of the brake pedal. 📖 (p. 111)
- Remove the motorcycle from the lift stand. 📖 (p. 60)



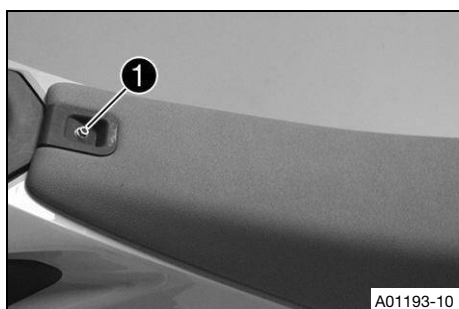
11.24 Removing the seat



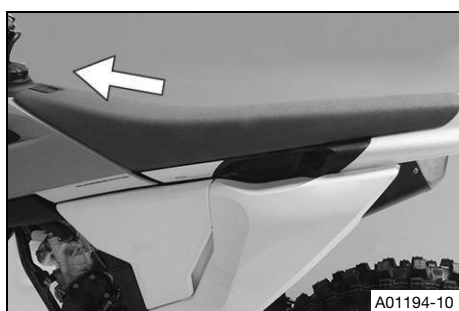
CAUTION

Danger of burns The regulator rectifier gets very hot when the vehicle is operated.

- Allow the regulator rectifier to cool down before performing any work.



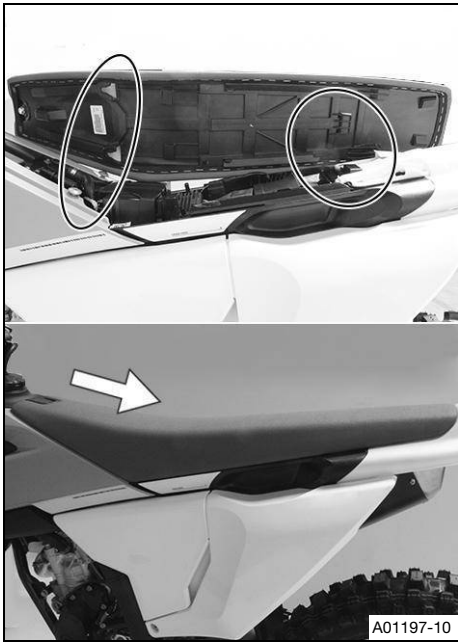
- Remove screw ①.



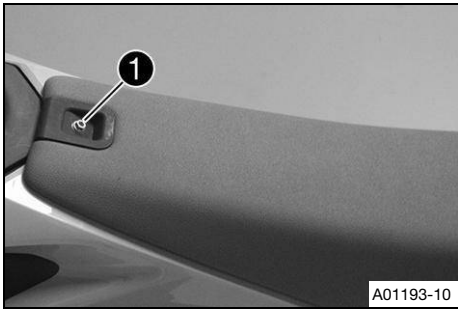
- Raise seat, pull it toward the fuel tank and take it off.



11.25 Mounting the seat



- Attach the seat to the collar bushings at the front and simultaneously push it back.
 - ✓ The holding lugs engage in the recesses at the back.
- Make sure the seat is latched in place correctly.

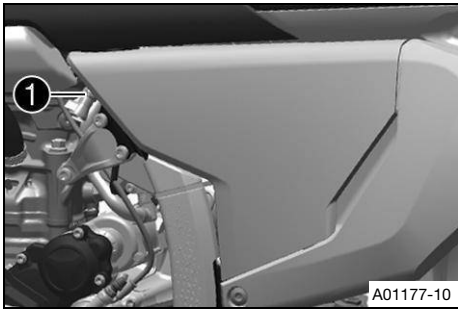


- Mount and tighten screw 1.

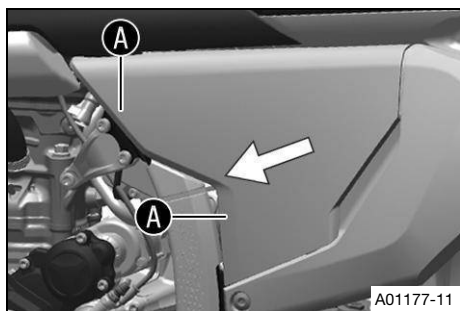
Screw, seat installation	
M6	8 Nm (5.9 ft·lb _f)

11.26 Removing air filter box cover

Condition: Air filter box cover secured

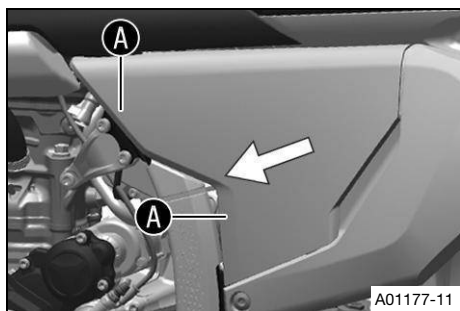


- Remove screw 1.



- Pull off air filter box cover in area **A** and push it sideways and forward.
- Remove air filter box cover.

Condition: Air filter box cover not secured

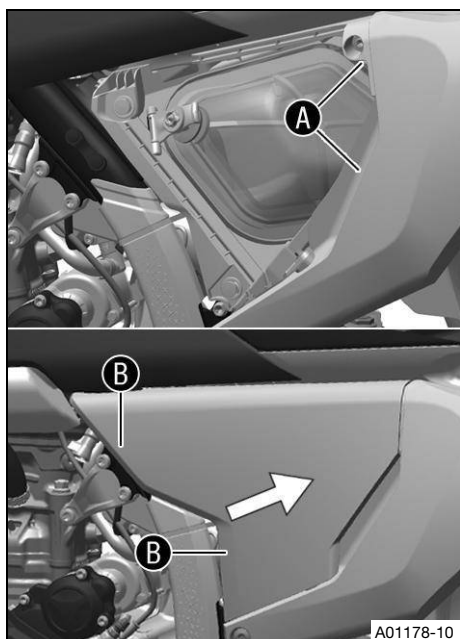


- Pull off air filter box cover in area **A** and push it sideways and forward.
- Remove air filter box cover.



11.27 Installing air filter box cover

Condition: Air filter box cover secured

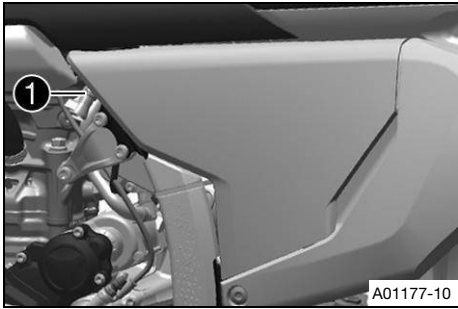


- Attach air filter box cover in area **A** and engage it in area **B**.



Note

An air filter box cover with openings for greater airflow and a more direct response is included.

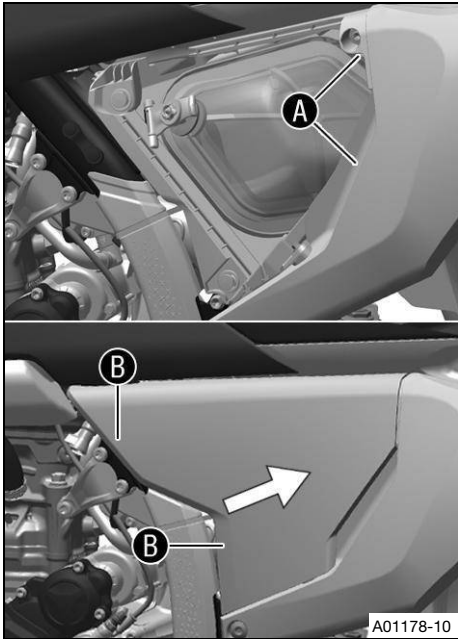


- Mount and tighten screw 1.

Screw, air filter box cover	
EJOT PT® – K60×20 – Z	5 Nm (3.7 ft·lb _f)

Condition: Air filter box cover not secured

- Attach air filter box cover in area A and engage it in area B.

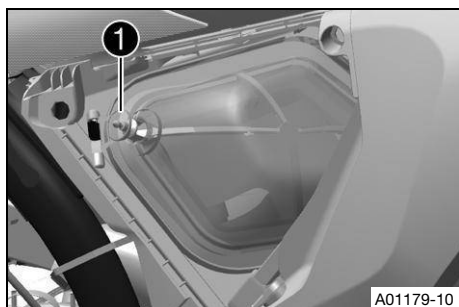


i Note
An air filter box cover with openings for greater airflow and a more direct response is included.

11.28 Removing the air filter

- **NOTE**
Engine failure Unfiltered intake air has a negative effect on the service life of the engine. Dust and dirt can enter the engine if there is no air filter or if the air filter is mounted incorrectly.
 - Only operate the vehicle if an air filter is correctly fitted.
- **NOTE**
Environmental hazard Hazardous substances cause environmental damage.
 - Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

- Preparatory work**
- Remove air filter box cover.  (p. 82)

**Main work**

- Detach tab ①.
- Remove air filter with air filter support.
- Remove the air filter with the air filter support.

**11.29 Cleaning the air filter and air filter box** **NOTE**

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

Preparatory work

- Remove air filter box cover.  (p. 82)
- Remove the air filter.   (p. 84)

Main work

- Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Do not clean the air filter with fuel or petroleum as these substances will damage the foam rubber.

Only press the air filter to dry it, do not wring it out.

Air filter cleaning agent  (p. 187)

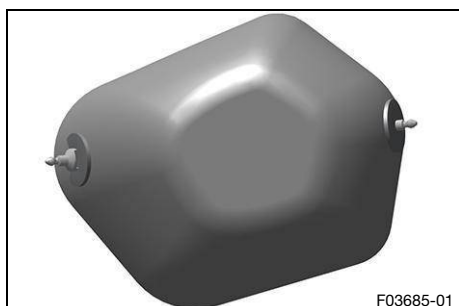
- Oil the dry air filter with a high-grade air filter oil.

Oil for foam air filter  (p. 184)

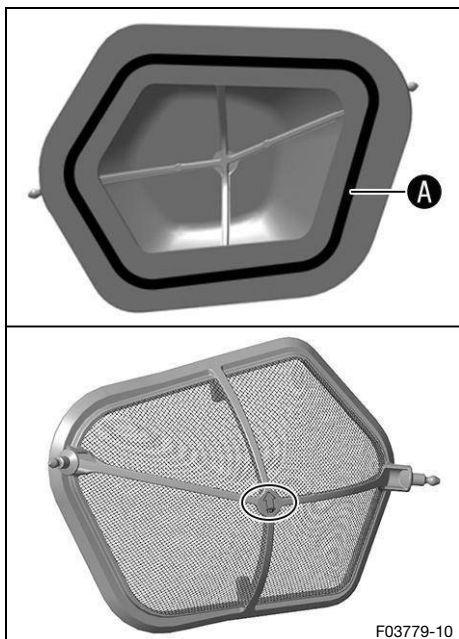
- Clean the air filter box.
- Clean the intake flange and check it for damage and that it is firmly seated.

Reworking

- Install the air filter.   (p. 86)
- Install the air filter box cover.  (p. 83)



11.30 Installing the air filter



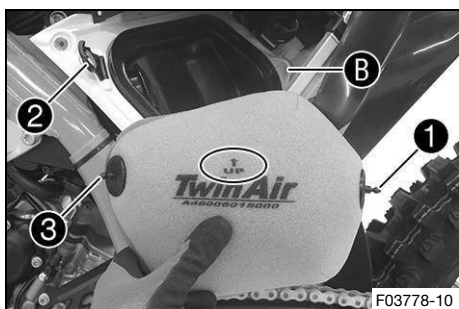
Main work

- Mount the clean air filter on the air filter support.

The marking on the air filter support must face upwards.

- Grease the air filter in area **A**.

Long-life grease  (p. 183)



- Insert air filter and position retaining pin **1** in bushing **B**.

The marking on the air filter must face upwards.

- ✓ The air filter is correctly positioned.

- Attach tab **2**.

- ✓ Retaining pin **3** is secured by tab **2**.



Note

If the air filter is not mounted correctly, dust and dirt may enter the engine and result in damage.

Reworking

- Install the air filter box cover.  (p. 83)

11.31 Securing the air filter box cover

Preparatory work

- Remove air filter box cover.  (p. 82)

Main work

- Drill a hole at marking **A**.

Diameter	6 mm (0.24 in)
----------	-------------------



Reworking

- Install the air filter box cover. (p. 83)



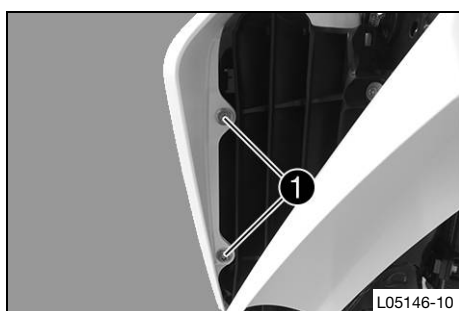
11.32 Removing the right side fairing

Preparatory work

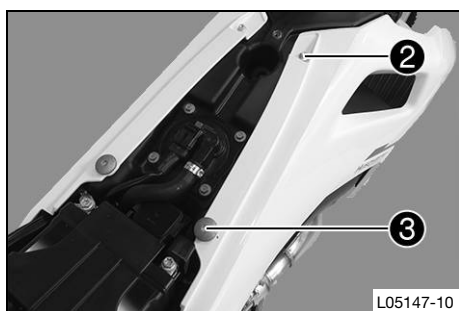
- Remove the seat. (p. 81)

Main work

- Remove screws **1**.



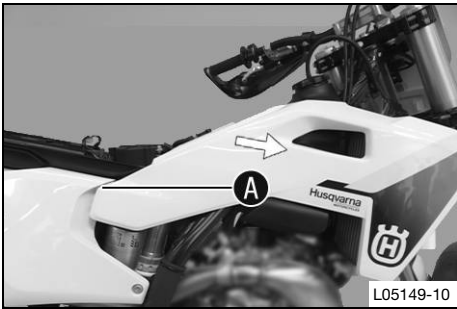
- Remove screw **2**.
- Remove screw **3**.



- Detach the side fairing in area **A** and remove it toward the rear.

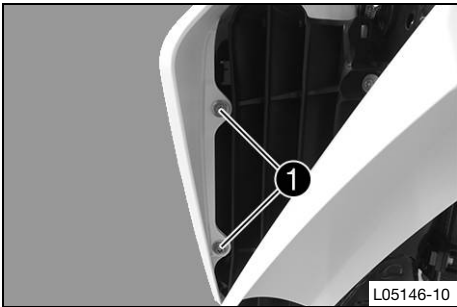


11.33 Installing the right side cover



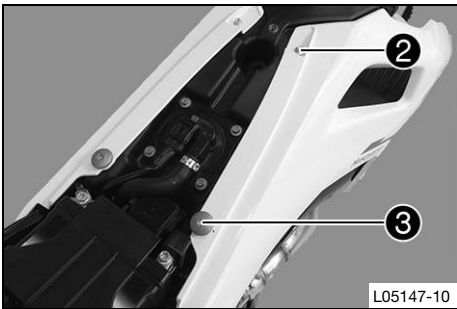
Main work

- Position the right side fairing and press it forward to lock it into place.
 - Press the side panel into the rubber bushing in area **A**.
- Make sure the side fairing is correctly hooked into area **A**.



- Mount and tighten screws **1**.

Screw, fuel tank spoiler on radiator	
M6	6 Nm (4.4 ft·lb _f)



- Mount and tighten screw **2**.

Screw, seat installation	
EJOT EJOFORM® – K60×23/18	2.5 Nm (1.84 ft·lb _f)

- Mount and tighten screw **3**.

Screw, seat installation	
EJOT EJOFORM® – K60×23/18	2.5 Nm (1.84 ft·lb _f)

Reworking

- Mount the seat. (p. 82)

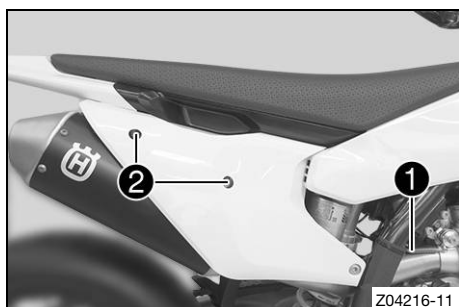
11.34 Removing the muffler

WARNING

Danger of burns The exhaust system gets hot when the vehicle is driven.

- Allow the exhaust system to cool down before performing any work on the vehicle.

(EU)

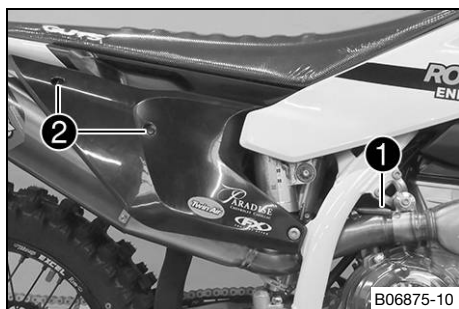


- Detach spring ①.

Spring hook (50305017000C1)

- Remove screws ② with the washers and take off the main silencer.

(Factory edition)



- Detach spring ①.

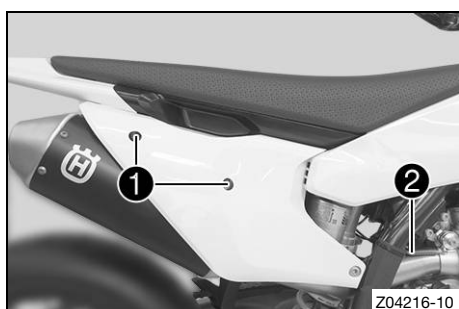
Spring hook (50305017000C1)

- Remove screws ② with the washers and take off the main silencer.



11.35 Installing muffler

(EU)



- Position the main silencer.
- Mount screws ① with washers, but do not tighten yet.
- Attach spring ②.

Spring hook (50305017000C1)

- Tighten screws ①.

Remaining screws on chassis	
-----------------------------	--

M6	10 Nm (7.4 ft·lb _f)
----	------------------------------------

(Factory edition)



- Position the main silencer.
- Mount screws ① with washers, but do not tighten yet.
- Attach spring ②.

Spring hook (50305017000C1)

- Tighten screws ①.

Remaining screws on chassis	
-----------------------------	--

M6	10 Nm (7.4 ft·lb _f)
----	------------------------------------



11.36 Changing the damping material on the main silencer



WARNING
Danger of burns The exhaust system gets hot when the vehicle is driven.
– Allow the exhaust system to cool down before performing any work on the vehicle.

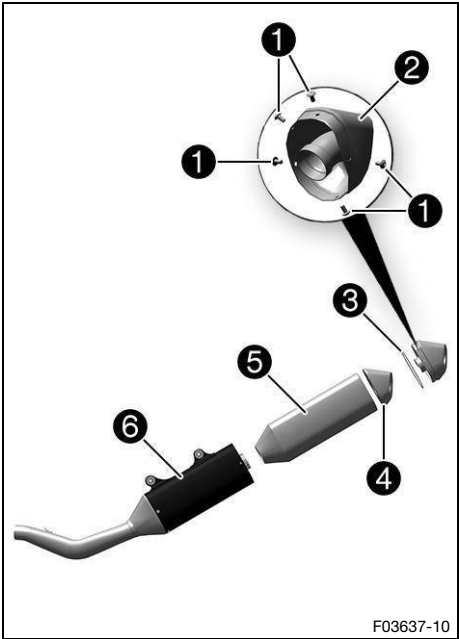


Note
Over time, the damping material fibers disappear, and the main silencer “burns out”.
Not only does this make the noise level higher, but the performance characteristics also change.

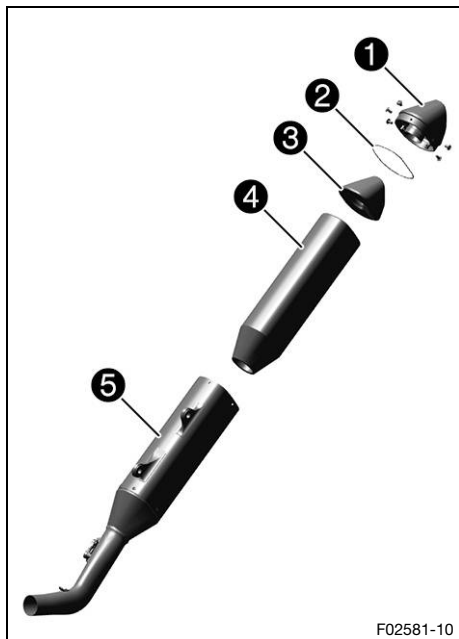
Preparatory work
– Remove the muffler.  (p. 88)

Main work
(EU)

- Remove the screws **1** on the main silencer.
- Take off silencer cap **2** and O-ring **3**.
- Pull damping material **4** out of the silencer cap.
- Pull damping material **5** off the inner tube.
- Clean the parts that need to be reinstalled and check for damage.
- Mount new damping material **5** on the inner tube.
- Position new damping material **4** in the silencer cap.
- Insert O-ring and silencer cap into outer tube **6**.
- Mount and tighten screws **1**.



Screws on muffler	
M5	7 Nm (5.2 ft·lb _r)



F02581-10

(Factory edition)

- Drill out all rivets on the main silencer and remove silencer cap ① with O-ring ②.
- Take damping material ③ out of the silencer cap.
- Pull damping material ④ out of outer tube ⑤.
- Clean the parts that need to be reinstalled and check for damage.
- Mount new damping material ④ on the inner tube.
- Position new damping material ③ in silencer cap ①.
- Insert silencer cap with O-ring ② into the outer tube.
- Rivet according to manufacturer specifications.

Reworking

- Install the muffler. 📖 (p. 89)

11.37 Removing the fuel tank 🔧**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, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.

**WARNING****Danger of poisoning** Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.

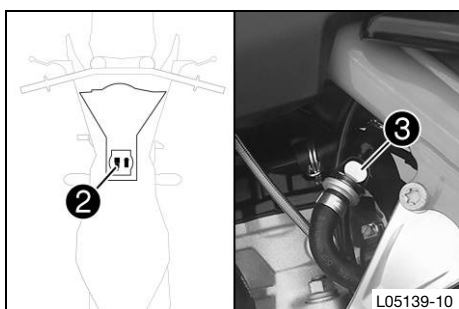
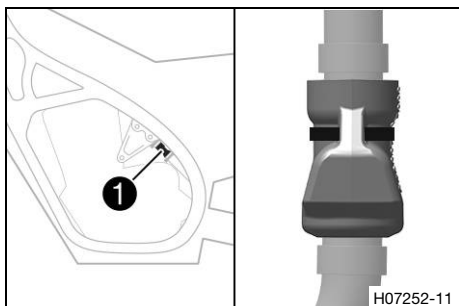
11 Service work on the chassis

Preparatory work

- Remove the seat.  (p. 81)

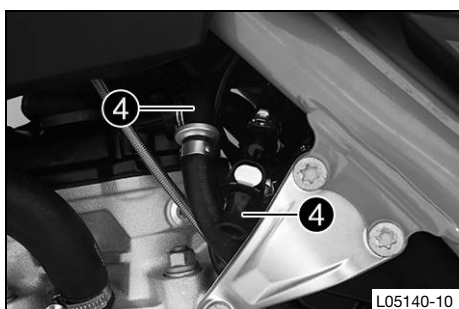
Main work

- Remove the cable tie of protection cap ❶.
- Remove the protection cap of the fuel line.



- Unplug socket connector ❷ of the fuel pump.
- Clean quick-lock coupling ❸ thoroughly with compressed air.

Dust must not enter the fuel line. Dirt in the fuel line clogs the injector!



- Disconnect the quick-lock coupling.



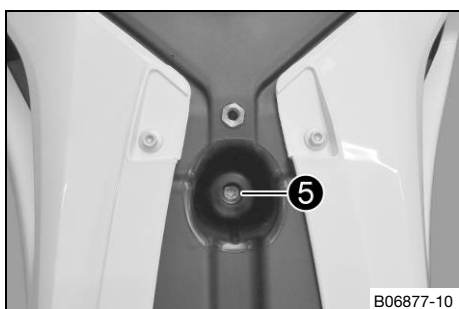
Note

Remaining fuel may flow out of the fuel hose.

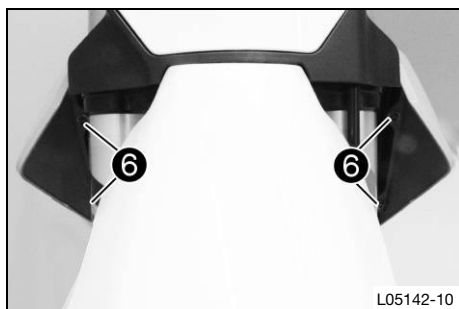
- Mount wash cap set ❹.

Wash cap set (81212016100)

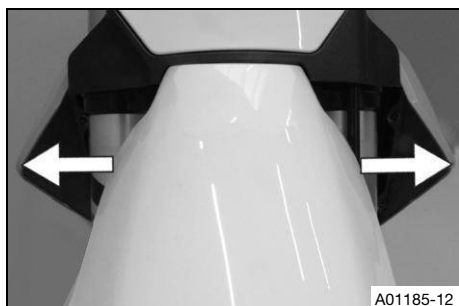
- Pull the fuel tank vent hose off the fuel tank cap.



- Remove screw ❺ with the rubber bushing.



- Remove screws **6** with collar bushings.



- Pull both spoilers laterally off the radiator and lift off the fuel tank.



11.38 Installing the fuel tank



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, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

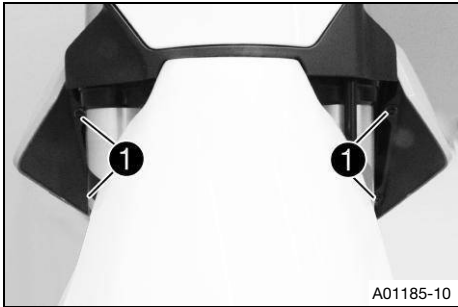
Danger of poisoning Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.

Main work

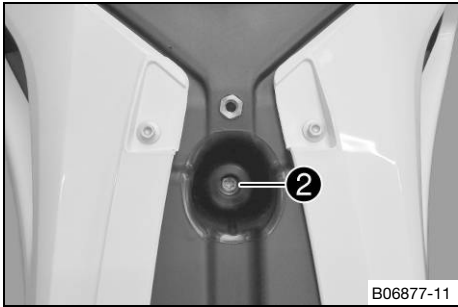
- Check the throttle cable routing.  (p. 100)

11 Service work on the chassis



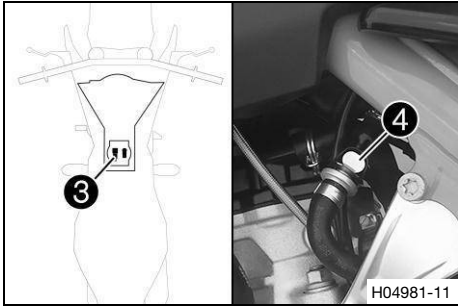
- Position the fuel tank and fit both spoilers to the side of the radiator.
- Make sure that no wires or cables are trapped or damaged.
- Attach the fuel tank vent hose to the fuel tank cap.
- Mount and tighten screws 1 with the collar bushings.

Screw, fuel tank spoiler on radiator	
M6	6 Nm (4.4 ft·lb _f)



- Mount and tighten screw 2 with the rubber bushing.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)



- Plug in fuel pump socket connector 3.
- Remove the wash cap set and thoroughly clean the quick-lock coupling using compressed air.

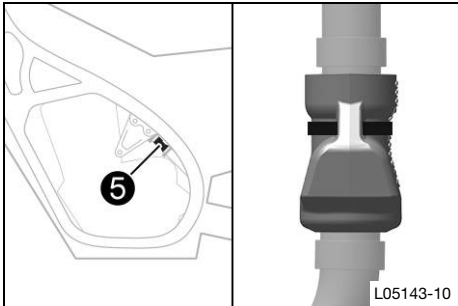
Dust must not enter the fuel line. Dirt in the fuel line clogs the injector!

- Spray silicone spray onto a lint-free cleaning cloth and lightly lubricate the O-ring of the quick-lock coupling.

Silicone spray (p. 184)

- Join quick-lock coupling 4 of the fuel line.

Route the wire and fuel line at a safe distance from the exhaust system.

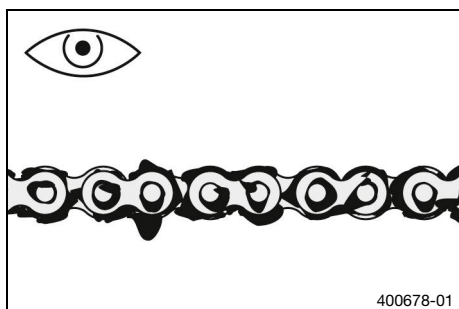


- Mount protection cap 5 of the fuel line.
- Secure the protection cap with the cable ties.

Reworking

- Mount the seat. (p. 82)

11.39 Checking the chain for dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (p. 95)



11.40 Cleaning the chain



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



WARNING

Danger of accidents Lubricants on the tires reduces the road grip.

- Remove lubricants from the tires using a suitable cleaning agent.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.



Note

The service life of the chain depends largely on its maintenance.

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)

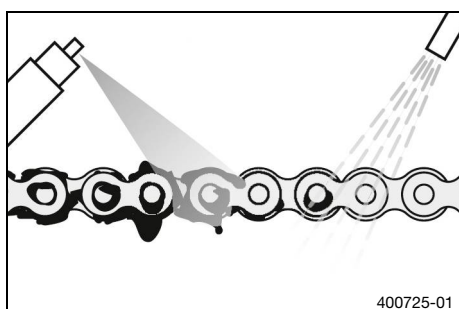
Main work

- Rinse off the loose dirt with a gentle jet of water.
- Remove old grease residues with a chain cleaner.

Chain cleaner (p. 187)

- After drying, apply chain spray.

Off-road chain spray (p. 183)



Reworking

- Remove the motorcycle from the lift stand. (p. 60)



11.41 Checking the chain tension



WARNING

Danger of accidents Incorrect chain tension can damage components and result in an accident.

If the chain tension is too high, the chain, front sprocket, rear sprocket, transmission, and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the front sprocket or the rear sprocket. This can damage the rear wheel or the engine.

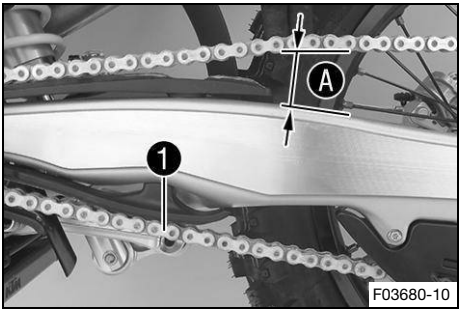
- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Raise the motorcycle with a lift stand.  (p. 60)

Main work

- Pull the chain at the end of the chain slider upward to measure chain tension **A**.



Chain tension	58 mm ... 61 mm (2.28 in ... 2.40 in)
Lower chain section 1 must be taut.	
Repeat this measurement at different chain positions.	



Note

Chains do not always wear evenly.

» If the chain tension does not meet the specification:

- Adjust the chain tension.  (p. 96)

Reworking

- Remove the motorcycle from the lift stand.  (p. 60)

11.42 Adjusting the chain tension



WARNING

Danger of accidents Incorrect chain tension can damage components and result in an accident.

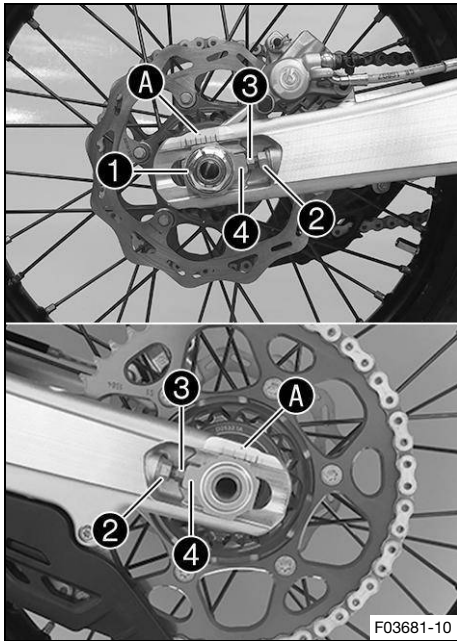
If the chain tension is too high, the chain, front sprocket, rear sprocket, transmission, and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the front sprocket or the rear sprocket. This can damage the rear wheel or the engine.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Raise the motorcycle with a lift stand.  (p. 60)
- Check the chain tension.  (p. 96)



Main work

- Loosen nut ①.
- Loosen nuts ②.
- Adjust the chain tension by turning adjusting screws ③ on the left and right.

Chain tension	58 mm ... 61 mm (2.28 in ... 2.40 in)
Turn adjusting screws ③ on the left and right so that the markings on the left and right chain tension adjusters are in the same position relative to reference marks A. The rear wheel is then correctly aligned.	

- Tighten nuts ②.
- Make sure that chain tension adjusters ④ are fitted correctly on adjusting screws ③.
- Tighten nut ①.

Nut, wheel spindle, rear	
M22×1.5	80 Nm (59.0 ft·lb _f)



Note

The wide adjustment range of the chain adjusters enables different secondary ratios with the same chain length.

Chain tension adjusters ④ can be turned by 180°.

Reworking

- Remove the motorcycle from the lift stand. 📖 (p. 60)



11.43 Checking the chain, rear sprocket, front sprocket, and chain guide

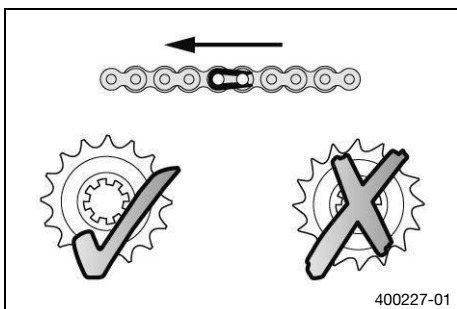
Preparatory work

- Raise the motorcycle with a lift stand. 📖 (p. 60)

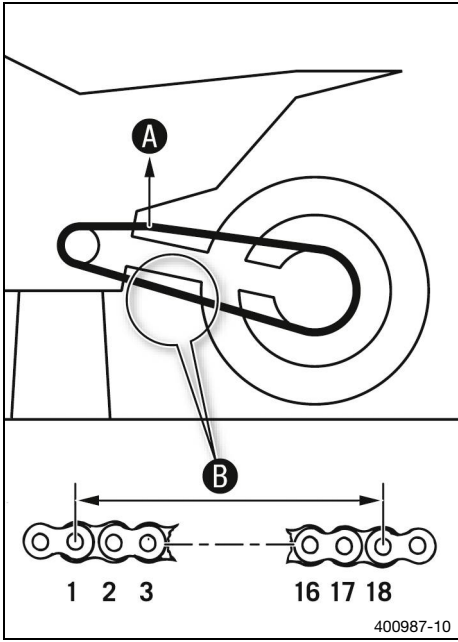
Main work

- Shift the transmission into the neutral position.
- Check the chain, rear sprocket, and front sprocket for wear.
 - » If the chain, rear sprocket, or front sprocket is worn:
 - Change the drivetrain kit. 🛠️

The front sprocket, rear sprocket, and chain should always be replaced together.



11 Service work on the chassis



- Pull on the top section of the chain with the specified weight **A**.

Weight, chain wear measurement	10 kg ... 15 kg (22.0 lb ... 33.1 lb)
--------------------------------	--

- Measure distance **B** of chain rollers in the lower chain section.

Maximum distance B of chain rollers at the longest chain section	272 mm (10.71 in)
Repeat this measurement at different chain positions.	



Note

Chains do not always wear evenly.

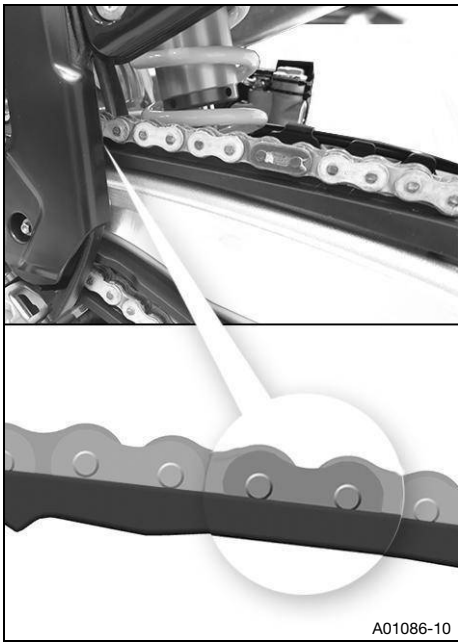
- » If distance **B** is greater than the specified measurement:
 - Change the drivetrain kit.

When you replace the chain, you should also replace the rear sprocket and front sprocket.



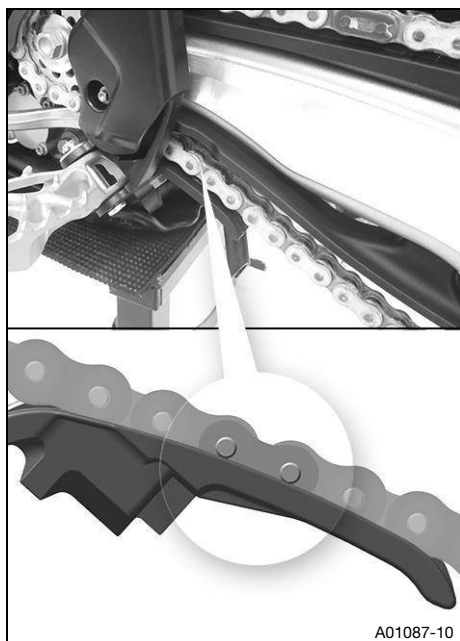
Note

New chains wear out faster on old, worn front or rear sprockets.



- Check the chain slider at the top for wear.
 - » If the lower edge of the chain pins is in line with, or below, the chain slider:
 - Change the chain slider.
- Check that the chain slider is firmly seated.
 - » If the chain slider is loose:
 - Tighten the screws of the chain slider.

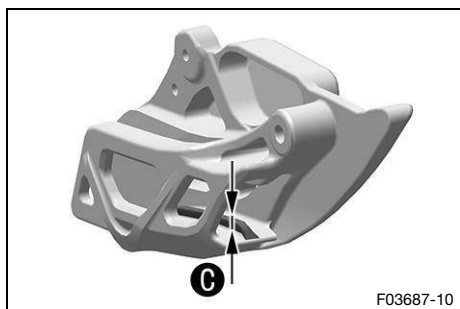
Screw, chain slider guard	
M6	6 Nm (4.4 ft·lb) Loctite® 243



A01087-10

- Check the chain slider for wear.
 - » If the lower edge of the chain pins is in line with or below the chain slider:
 - Change the chain slider. 🛠️
- Check that the chain slider is firmly seated.
 - » If the chain slider is loose:
 - Tighten the screws of the chain slider.

Screw, chain slider	
M8	15 Nm (11.1 ft·lb _f)



F03687-10

- Check the chain guide with a slide gage for dimension **C**.

Minimum thickness C of the chain guide	6 mm (0.24 in)
---	-------------------

- » If the specifications have not been met:
 - Change the chain guide. 🛠️



F03682-01

- Check that the chain guide is firmly seated.
 - » If the chain guide is loose:
 - Tighten the screws on the chain guide.

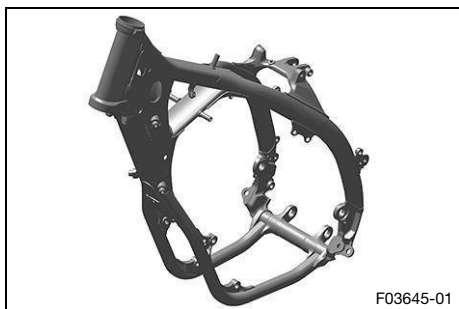
Screw, chain guide on swingarm, front	
M6	10 Nm (7.4 ft·lb _f)
Screw, chain guide on swingarm, rear	
M6	10 Nm (7.4 ft·lb _f) Loctite® 243

Reworking

- Remove the motorcycle from the lift stand. 📖 (p. 60)

11 Service work on the chassis

11.44 Checking the frame



- Check the frame for damage, cracks, and deformation.
 - » If the frame shows signs of damage, cracks, or deformation:
- Change the frame. 

Repairs on the frame are not permitted.

11.45 Checking the swingarm



- Check the swingarm for damage, cracks, and deformation.
 - » If the swingarm shows signs of damage, cracks, or deformation:
- Change the swingarm. 

Always replace a damaged link fork. Repairs to the swingarm are not authorized.

11.46 Checking the throttle cable routing



WARNING

Danger of accidents The throttle cable can become kinked, jammed, or blocked if it has been routed incorrectly.

If the throttle cable is kinked, jammed or blocked, the speed can no longer be controlled.

- Make sure that the throttle cable routing and the play in the throttle cable complies with the specification.

Preparatory work

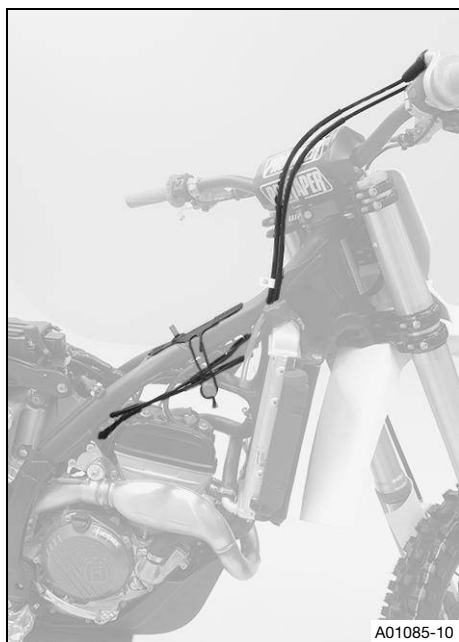
- Remove the seat.  (p. 81)
- Remove the fuel tank.   (p. 91)

Main work

- Check the throttle cable routing.

Both throttle cables must be routed to the throttle valve body side by side on the back of the handlebars and above the fuel tank roller. Both throttle cables must be secured behind the rubber strap of the fuel tank support.

- » If the throttle cable routing is not as specified:
 - Correct the throttle cable routing.

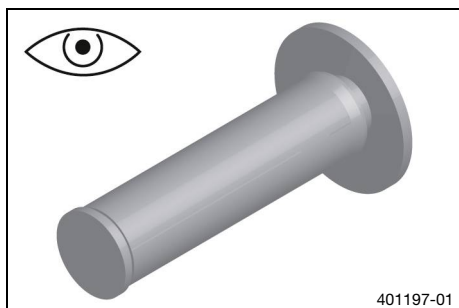


Reworking

- Install the fuel tank. (p. 93)
- Mount the seat. (p. 82)



11.47 Checking the rubber grips



- Check the hand grips on the handlebar for damage, wear, and that they are firmly seated.



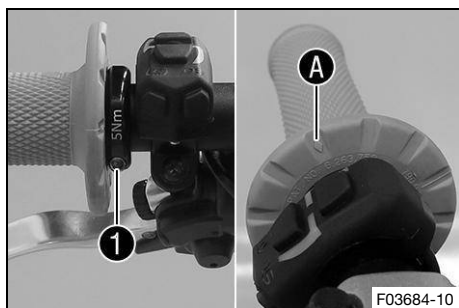
Note

The hand grips are vulcanized onto a sleeve on the left and onto the grip tube of the throttle grip on the right. The left sleeve is clamped onto the handlebar.

The hand grip can only be replaced with the sleeve or the gas pipe.

- » If a hand grip is damaged or worn:
 - Replace the hand grip.

- Check that screw ① is firmly seated.



Screw, fixed grip	
M4	5 Nm (3.7 ft-lb) Loctite® 243

Diamond ① must be positioned visibly as shown in the figure.



11.48 Program the Quickshifter

Note

If the shifting performance of the Quickshifter starts to decrease, it must be reprogrammed.

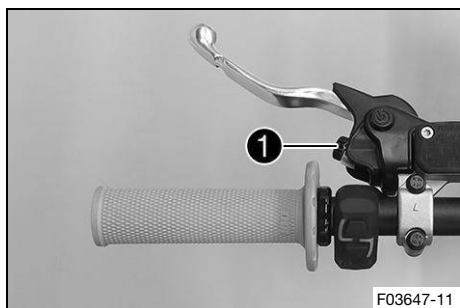


- Carry out the starting procedure.  (p. 30)
- Press and hold the QS button **1** for at least 10 seconds.
 - ✓ The QS indicator lamp flashes.
- Pull the clutch lever, engage first gear and press the clutch lever as far down as it will go for at least a second.
- Briefly press the QS button **1**.
 - ✓ The QS indicator lamp lights up blue, the teaching procedure was successful.

Note

If the quickshifter cannot be activated, the teaching procedure was unsuccessful and must be repeated.

11.49 Adjusting the basic position of the clutch lever



- Adjust the basic position of the clutch lever to your hand size by turning adjusting screw **1**.

Only turn the adjusting screw by hand, and do not use force. Do not make any adjustments while riding.

Note

When the adjusting screw is turned counterclockwise, the clutch lever moves closer to the handlebar.
When the adjusting screw is turned clockwise, the clutch lever moves away from the handlebar.
The range of adjustment is limited.

11.50 Checking/correcting the fluid level of hydraulic clutch



WARNING

Health hazard Brake fluid is a harmful substance.

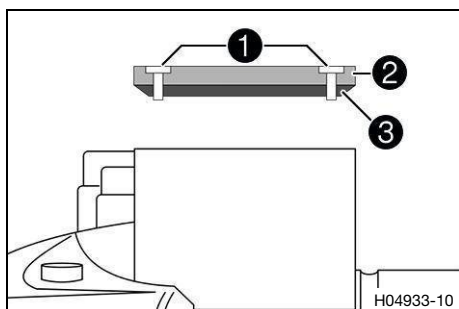
- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Note

The fluid level rises with increasing wear of the friction plates.

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.



- Move the hydraulic clutch fluid reservoir mounted on the handlebar into a horizontal position.
- Remove screws ①.
- Take off cover ② with diaphragm ③.
- Check the fluid level.

Fluid level below reservoir rim	4 mm (0.16 in)
---------------------------------	-------------------

» If the fluid level does not meet the specifications:

- Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 / DOT 5.1 (p. 184)

- Position the cover with diaphragm. Mount and tighten the screws.

Immediately clean up any brake fluid that has overflowed or spilled with water.

11.51 Changing the hydraulic clutch fluid



WARNING

Health hazard Brake fluid is a harmful substance.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

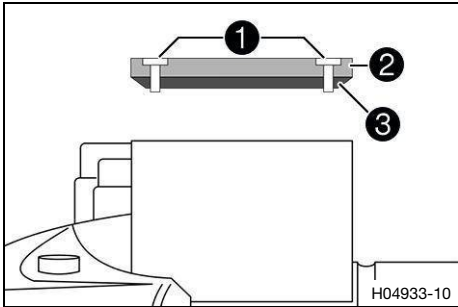
- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.



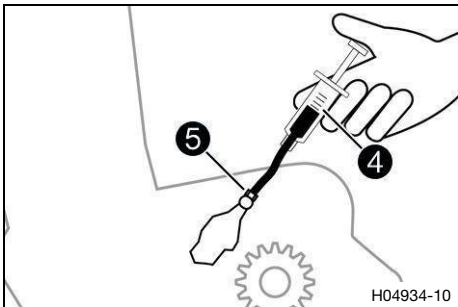
Note

The fluid level rises with increasing wear of the friction plates.

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.



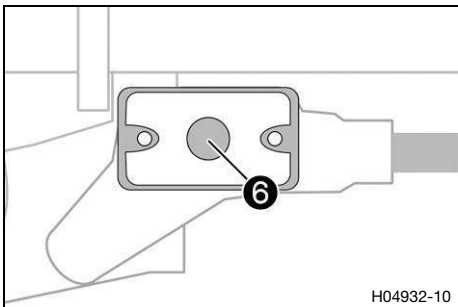
- Move the hydraulic clutch fluid reservoir mounted on the handlebar into a horizontal position.
- Remove screws 1.
- Take off cover 2 with diaphragm 3.



- Fill bleeding syringe 4 with the appropriate hydraulic fluid.
- On the clutch slave cylinder, remove the protection cap and mount bleeding syringe 4 with an appropriate hose piece on bleed screw 5.
- Only loosen bleed screw 5 on the clutch slave cylinder until filling is possible.

Syringe (50329050000)
Brake fluid DOT 4 / DOT 5.1 (p. 184)

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.
Only use clean brake fluid from a sealed container.



- Inject the liquid into the system until it escapes from bore 6 of the master cylinder without bubbles.
- Occasionally extract the fluid from the master cylinder reservoir to prevent overflowing.
- Tighten the bleed screw and remove the bleeding syringe with the hose. Mount the protection cap.
- Correct the fluid level of the hydraulic clutch.

Fluid level below reservoir rim	4 mm (0.16 in)
---------------------------------	-------------------

- Position the cover with diaphragm. Mount and tighten the screws.
- Mount screws and screw in hand-tight.

Immediately clean up any brake fluid that has overflowed or spilled using water.
--

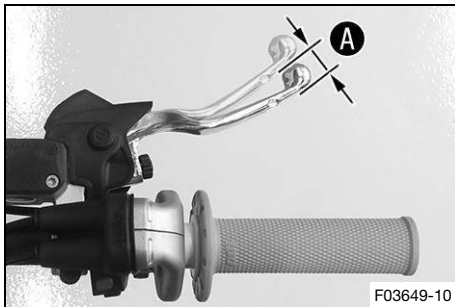
12.1 Checking the free travel on the hand brake lever



WARNING

Danger of accidents The brake system fails in the event of overheating.
If there is no free travel on the brake lever, pressure builds up in the brake system.

- Set the free travel on the brake lever as specified.



- Push the hand brake lever forward and check free travel **A**.

Free travel of hand brake lever	≥ 3 mm (≥ 0.12 in)
---------------------------------	-----------------------

- » If the free travel does not meet the specifications:
 - Adjust the basic position of the hand brake lever. (p. 105)



12.2 Adjusting the basic position of the hand brake lever

Preparatory work

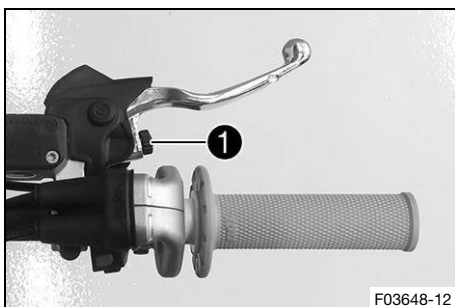
- Check the free travel on the hand brake lever. (p. 105)

Main work

- Adjust the basic position of the hand brake lever to your hand size by turning adjusting screw **1**.

Only turn the adjusting screw by hand, and do not use force.

Do not make any adjustments while riding.



Note

Turn the adjusting screw clockwise to increase the distance between the hand brake lever and the handlebar.

Turn the adjusting screw counterclockwise to decrease the distance between the hand brake lever and the handlebar.

The range of adjustment is limited.



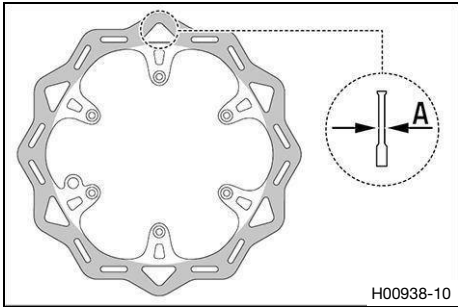
12.3 Checking the brake discs



WARNING

Danger of accidents Worn-out brake discs reduce the braking action.

- Make sure that worn-out brake discs are replaced immediately.



- Check the brake disc thickness of the front and rear brake disc at several places on the disc to see if they conform to measurement **A**.

Brake disc wear limit	
front	2.5 mm (0.098 in)
rear	3.5 mm (0.138 in)

i Note
Wear reduces the thickness of the brake discs at the contact surface of the brake pads.

- » If the brake disc thickness is less than the specification:
 - Change the brake discs of the front brake.
 - Change the brake discs on the rear brake.
- Check the front and rear brake discs for damage, cracks, and deformation.
 - » If the brake disc shows signs of damage, cracks, or deformation:
 - Change the brake discs of the front brake.
 - Change the brake discs on the rear brake.

12.4 Checking the brake fluid level for the front brake

WARNING
Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

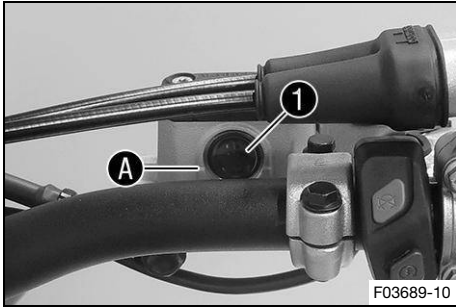
- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING
Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.

- Preparatory work**
- Check that the brake pads of the front brake are secured. (p. 108)



Main work

- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in sight glass ①.
 - » If the brake fluid level has fallen below marking A:
 - Add brake fluid for the front brake. (p. 107)

12.5 Adding brake fluid for the front brake



WARNING

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

Health hazard Brake fluid is a harmful substance.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

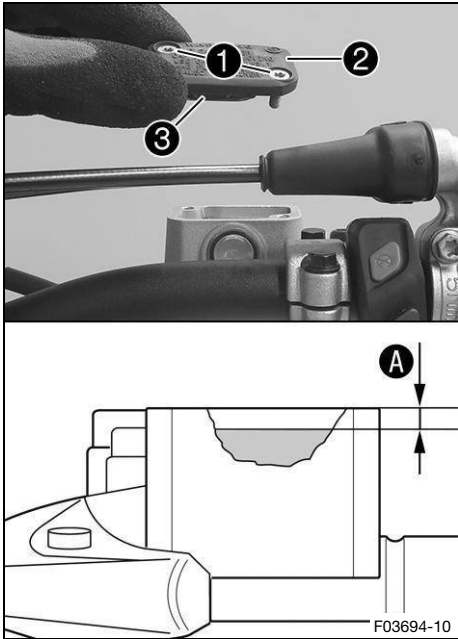


Note

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.

Preparatory work

- Check that the brake pads of the front brake are secured. (p. 108)



Main work

- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove ❶ screws.
- Take off cover ❷ with diaphragm ❸.
- Add brake fluid up to level A.

Level A (brake fluid level below reservoir rim)	5 mm (0.20 in)
---	-------------------

Brake fluid DOT 4 / DOT 5.1 (p. 184)

- Position cover ❷ with diaphragm ❸. Mount and tighten screws ❶.

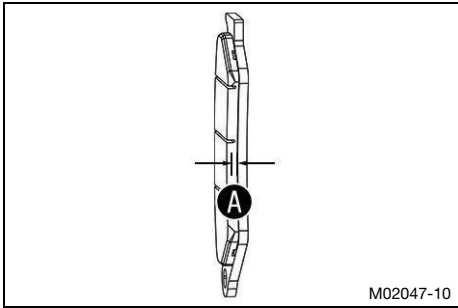
Immediately clean up any brake fluid that has overflowed or spilled with water.

12.6 Checking that the brake pads of the front brake are secured

WARNING

Danger of accidents Worn brake pads reduce the brake action.

- Make sure that worn brake pads are replaced immediately.



- Check the brake linings for minimum thickness A.

Minimum pad thickness A	≥ 1 mm (≥ 0.04 in)
-------------------------	-----------------------

- » If the minimum thickness is less than specified:
 - Change the front brake pads. (p. 109)
- Check the brake pads for damage and cracking.
 - » If damage or wear is encountered:
 - Change the front brake pads. (p. 109)
- Check that the brake pads are secured.
 - » If the brake pads are not secured correctly:
 - Secure brake pads, replace with new parts if necessary.

12.7 Changing the brake pads of the front brake



WARNING

Danger of accidents Brake pads which have not been approved alter the braking action.

- Only use brake pads approved and recommended by the vehicle manufacturer.



WARNING

Danger of accidents Incorrect servicing will cause the brake system to fail.

- Ensure that service work and repairs are performed professionally.



WARNING

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



WARNING

Health hazard Brake fluid is a harmful substance.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



NOTE

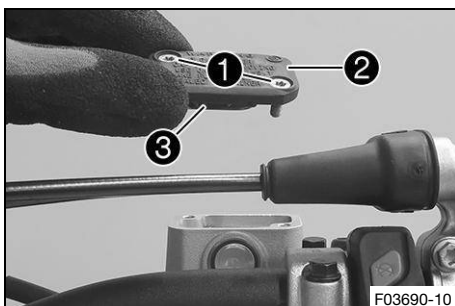
Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

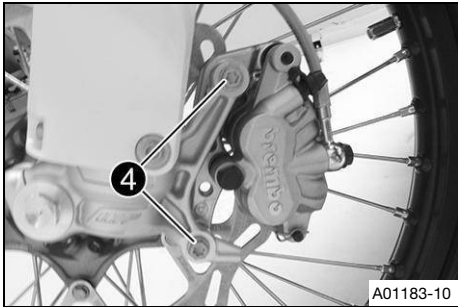


Note

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.

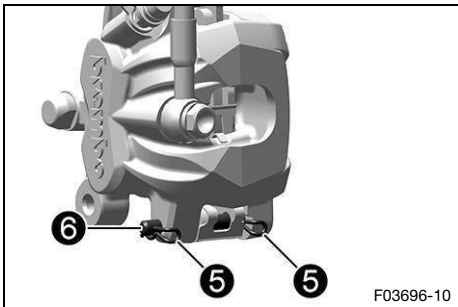


- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove screws **1**.
- Take off cover **2** with diaphragm **3**.

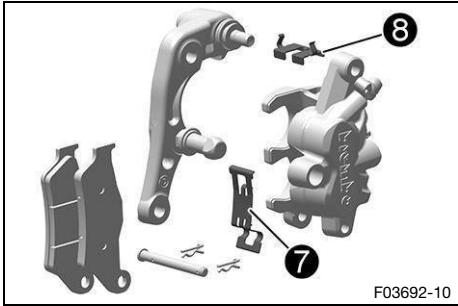


- Remove screws 4.
- Press the brake pads back by slightly tilting the brake caliper laterally on the brake disc. Carefully pull the brake caliper up and off the brake disc.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake reservoir, extract some brake fluid if necessary.

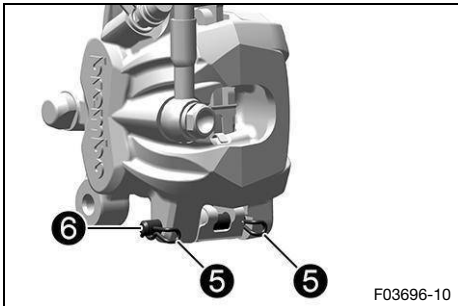
Do not operate the hand brake lever if the brake caliper has been removed.



- Remove cotter pin 5, pull out stud 6, and remove the brake pads.
- Clean brake caliper and brake caliper support.



- Check that spring steel clip 7 in the brake caliper and brake pad guide plate 8 in the brake caliper support are properly seated.



- Insert the new brake pads, mount stud 6 and cotter pins 5.

Mount the outer cotter pins from the front to the rear.

Mount the inner cotter pins from the rear to the front.

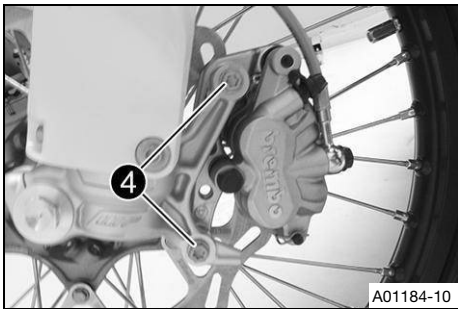
Always replace brake pads in sets.

Make sure the brake pads and retaining spring are properly seated.



Tip

To make it easier to mount the stud, push the brake pads upward against the retaining spring.



- Position the brake caliper.
- Mount and tighten screws 4.

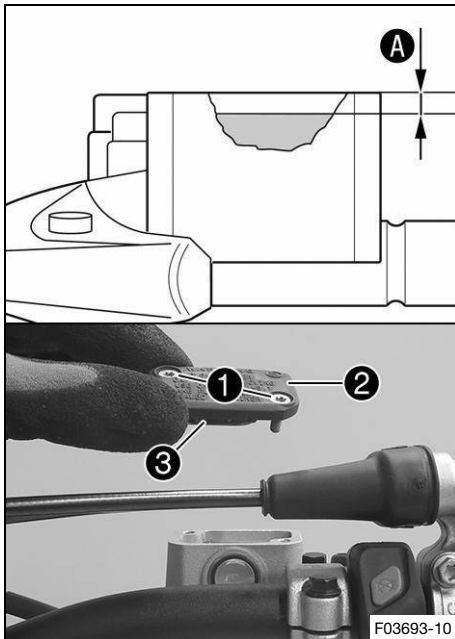
Screw, front brake caliper

M8

25 Nm
(18.4 ft·lb.)

Loctite® 243

- Operate the hand brake lever repeatedly until the brake pads are in contact with the brake disc and a pressure point is reached.



- Add brake fluid to level **A**.

Level A (brake fluid level below reservoir rim)	5 mm (0.20 in)
--	-------------------

Brake fluid DOT 4 / DOT 5.1 (p. 184)

- Position cover **2** with diaphragm **3**.
- Mount and tighten screws **1**.

Immediately clean up any brake fluid that has overflowed or spilled with water.

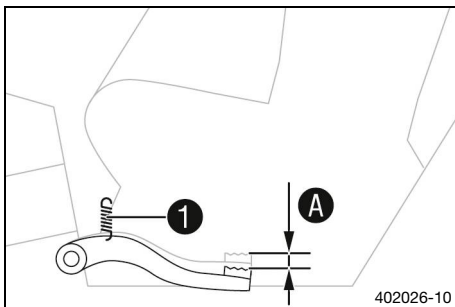
12.8 Checking the free travel of the brake pedal



WARNING

Danger of accidents The brake system fails in the event of overheating.
If there is no free travel on the brake lever, pressure builds up in the brake system.

- Set the free travel on the brake lever as specified.



- Detach spring **1**.
- Move the brake pedal back and forth between the end stop and the brake pedal cylinder piston actuation and check free travel **A**.

Free travel of brake pedal	3 mm ... 5 mm (0.12 in ... 0.20 in)
----------------------------	--

» If the free travel does not meet the specifications:

- Adjust the basic position of the brake pedal. (p. 111)

- Attach spring **1**.

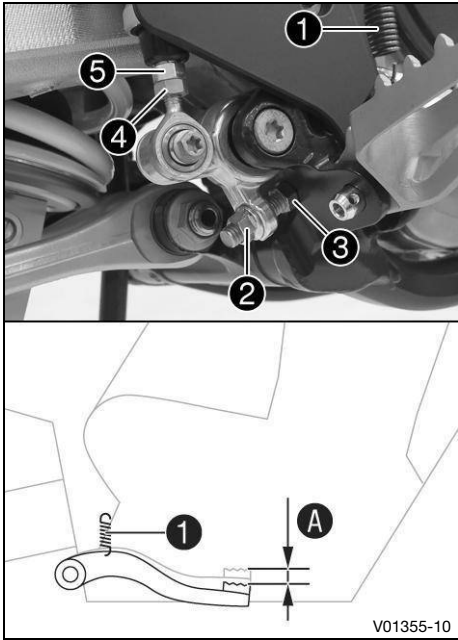
12.9 Adjusting the basic position of the brake pedal



WARNING

Danger of accidents The brake system fails in the event of overheating.
If there is no free travel on the brake lever, pressure builds up in the brake system.

- Set the free travel on the brake lever as specified.



- Detach spring 1.
- Loosen nut 4 and unscrew it with push rod 5 until you have maximum free travel.
- To adjust the basic position of the brake pedal to individual requirements, loosen nut 2 and turn screw 3 accordingly.

Note
The range of adjustment is limited.

- Turn push rod 5 accordingly until you have free travel A. If necessary, adjust the basic position of the brake pedal.

Free travel of brake pedal	3 mm ... 5 mm (0.12 in ... 0.20 in)
----------------------------	--

- Hold push rod 5 and tighten nut 4.

Remaining nuts on chassis	
M6	10 Nm (7.4 ft·lb _f)

- Hold screw 3 and tighten nut 2.

Brake pedal stop nut	
M8	20 Nm (14.8 ft·lb _f)

- Attach spring 1.

12.10 Checking the brake fluid level for the rear brake

WARNING

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

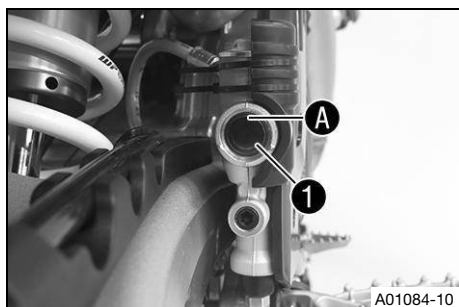
- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.

- Preparatory work**
- Check that the brake pads of the rear brake are secured.
 (p. 114)



Main work

- Stand the vehicle upright.
- Check the brake fluid level in sight glass ①.
 - » If the brake fluid level has fallen below marking A:
 - Add brake fluid for the rear brake. (p. 113)



12.11 Adding brake fluid for the rear brake



WARNING

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

Health hazard Brake fluid is a harmful substance.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

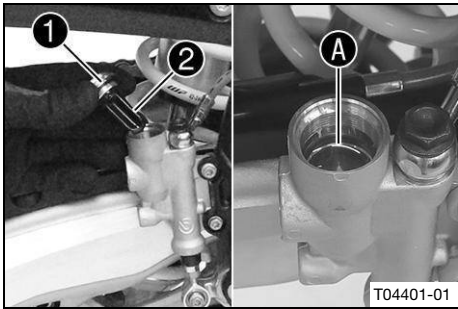


Note

Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.

Preparatory work

- Check that the brake pads of the rear brake are secured. (p. 114)
- Remove the frame protector. (p. 65)



Main work

- Stand the vehicle upright.
 - Remove screw cap 1 with diaphragm 2 and the O-ring.
 - Add brake fluid to mark A.
- Brake fluid DOT 4 / DOT 5.1 (p. 184)
- Mount and tighten the screw cap with the membrane and O-ring.

Immediately clean up any brake fluid that has overflowed or spilled using water.

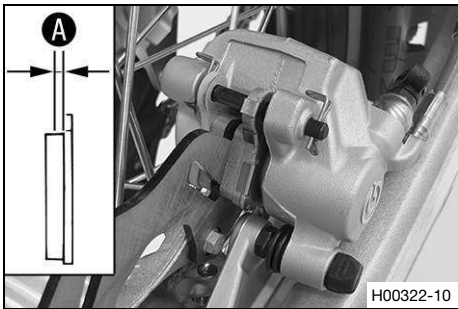
Reworking

- Install the frame protector. (p. 65)

12.12 Checking that the brake pads of the rear brake are secured



WARNING
Danger of accidents Worn brake pads reduce the brake action.
– Make sure that worn brake pads are replaced immediately.



- Check the brake linings for minimum thickness A.
- | | |
|-------------------------|-----------------------|
| Minimum pad thickness A | ≥ 1 mm
(≥ 0.04 in) |
|-------------------------|-----------------------|
- » If the minimum thickness is less than specified:
 - Change the rear brake pads. (p. 114)
 - Check the brake pads for damage and cracking.
 - » If damage or wear is encountered:
 - Change the rear brake pads. (p. 114)
 - Check that the brake pads are secured.
 - » If the brake pads are not secured correctly:
 - Secure brake pads, replace with new parts if necessary.

12.13 Changing the rear brake pads



WARNING
Danger of accidents Brake pads which have not been approved alter the braking action.
– Only use brake pads approved and recommended by the vehicle manufacturer.



WARNING
Danger of accidents Incorrect servicing will cause the brake system to fail.
– Ensure that service work and repairs are performed professionally.



WARNING

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



WARNING

Health hazard Brake fluid is a harmful substance.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes, or clothing.
- Consult a doctor immediately if brake fluid has been ingested.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.



Note

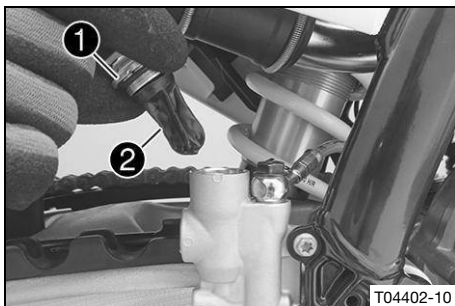
Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.

Preparatory work

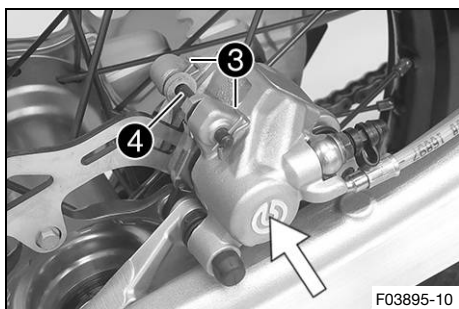
- Remove the frame protector.  (p. 65)

Main work

- Stand the vehicle upright.
- Remove screw cap ① with diaphragm ② and the O-ring.



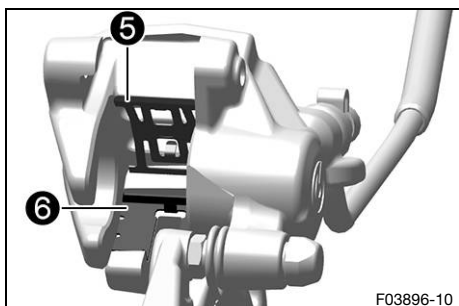
12 Brake system



- Manually press the brake caliper toward the brake disc to push back the brake piston. Ensure that brake fluid does not flow out of the brake reservoir, and siphon off excess if required.

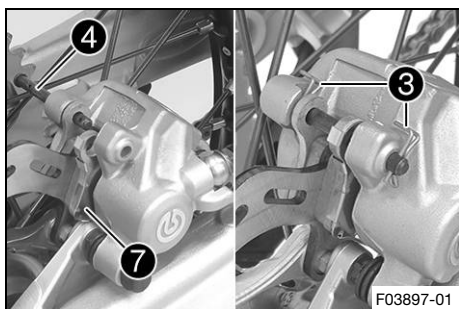
Make sure that you do not press the brake caliper against the spokes when pushing back the brake pistons.

- Remove cotter pin ③, pull out stud ④, and remove the brake pads.
- Clean brake caliper and brake caliper support.



- Check that spring steel clip ⑤ in the brake caliper and brake pad guide plate ⑥ in the brake caliper support are properly seated.

The arrow on the spring steel clip points in the rotation direction of the brake disc.

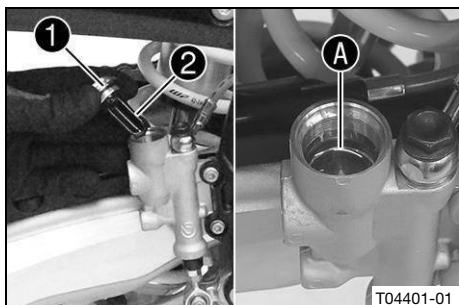


- Insert the new brake pads, mount stud ④ and cotter pins ③.

Always replace brake pads in sets.

Make sure that decoupling plate ⑦ is mounted on the piston side of the brake pad.

- Actuate the brake disc repeatedly until the brake pads are in contact with the brake disc and a pressure point is achieved.



- Correct the brake fluid level to mark A.

Brake fluid DOT 4 / DOT 5.1  (p. 184)

- Mount and tighten screw cap ① with diaphragm ② and the O-ring.

Immediately clean up any brake fluid that has overflowed or spilled with water.

Reworking

- Install the frame protector.  (p. 65)

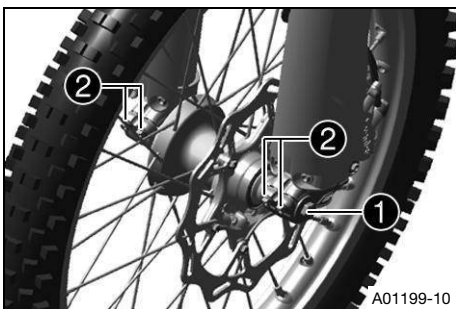
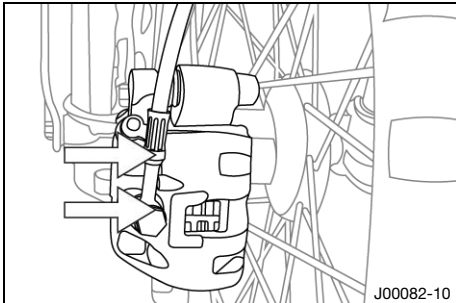
13.1 Removing the front wheel

Preparatory work

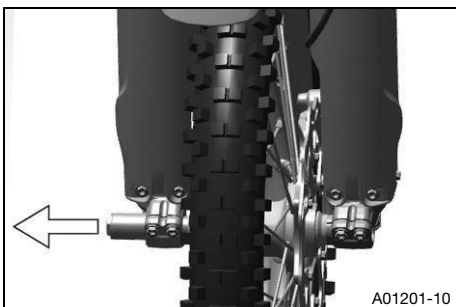
- Raise the motorcycle with a lift stand.  (p. 60)

Main work (EU)

- Manually press the brake caliper toward the brake disc to push back the brake pistons.



- Loosen screw ① by four turns.
- Loosen screws ②.
- Press on screw ① to push the wheel spindle out of the fork shoe.
- Remove screw ①.



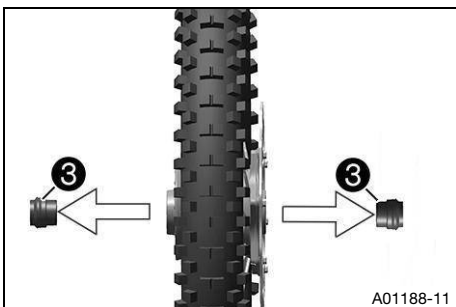
WARNING

Danger of accidents Damaged brake discs reduce the braking action.

- Always lay the wheel down in such a way that the brake disc is not damaged.

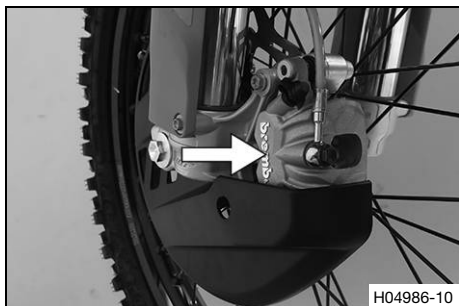
- Hold front wheel and remove wheel spindle. Take the front wheel out of the fork.

Do not actuate the hand brake lever when the front wheel is removed.

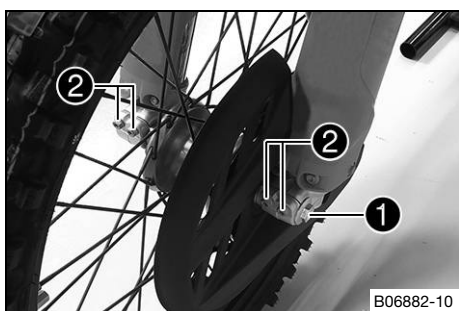


- Remove spacers ③.

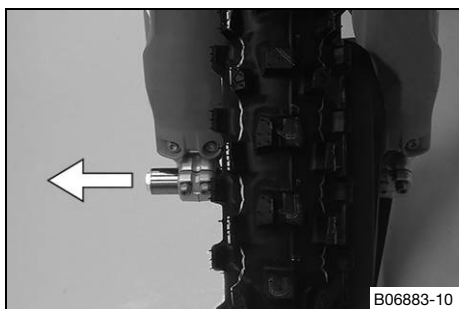
(Factory edition)



- Manually press the brake caliper toward the brake disc to push back the brake pistons.



- Loosen screw ① by four turns.
- Loosen screws ②.
- Press on screw ① to push the wheel spindle out of the fork shoe.
- Remove screw ①.



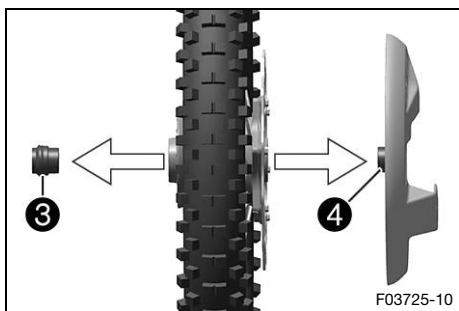
WARNING

Danger of accidents Damaged brake discs reduce the braking action.

- Always lay the wheel down in such a way that the brake disc is not damaged.

- Hold front wheel and remove wheel spindle. Take the front wheel out of the fork.

Do not actuate the hand brake lever when the front wheel is removed.



- Remove spacers ③ and brake disc guard ④.

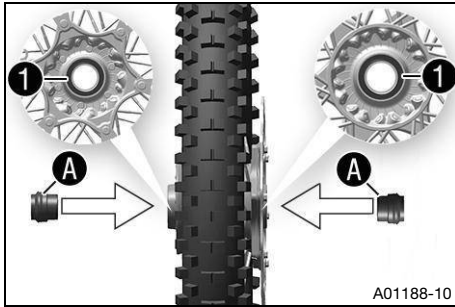
13.2 Installing the front wheel



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



(EU)

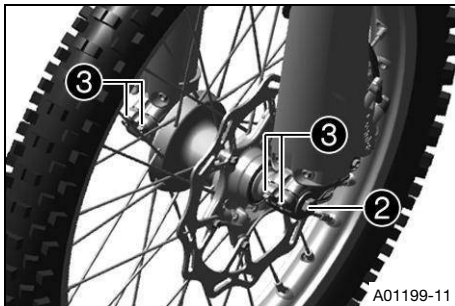
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the front wheel bearing.
- Clean and grease radial shaft seal (1) and contact surfaces (A) on the spacers.

Long-life grease (p. 183)

- Insert spacers.
- Clean and lightly grease the wheel spindle.

Long-life grease (p. 183)

- Position the front wheel and insert the wheel spindle.
 - ✓ The brake pads are positioned correctly.



- Mount and tighten screw (2).

Screw, wheel spindle, front

M20×1.5

35 Nm
(25.8 ft·lb_f)

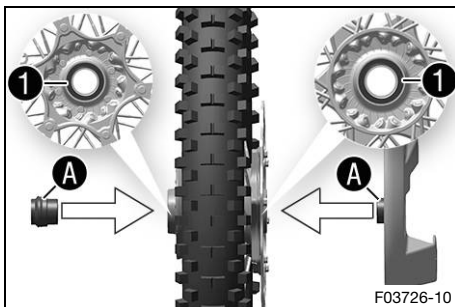
- Operate the hand brake lever several times until the brake pads are in contact with the brake disc.
- Remove the motorcycle from the lift stand. (p. 60)
- Operate the front brake and compress the fork a few times firmly.
 - ✓ The fork legs straighten.

- Tighten screws (3).

Screw, fork shoe

M8

15 Nm
(11.1 ft·lb_f)



(Factory edition)

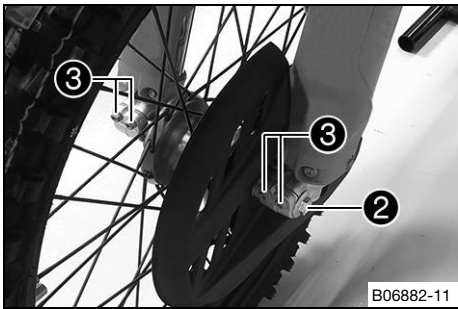
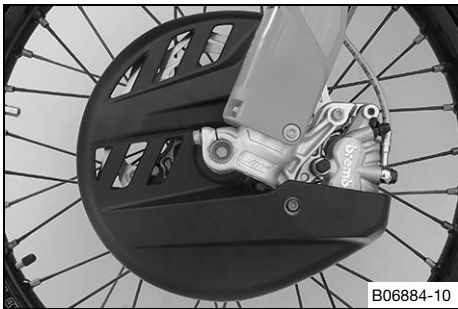
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the front wheel bearing.
- Clean and grease radial shaft seal (1) and contact surfaces (A) on the spacers.

Long-life grease (p. 183)

- Insert spacers.
- Clean and lightly grease the wheel spindle.

Long-life grease (p. 183)

- Position the front wheel and insert the wheel spindle.
 - ✓ The brake pads are positioned correctly.



- Position the brake disc guard.

- Mount and tighten screw ②.

Screw, wheel spindle, front	
M20×1.5	35 Nm (25.8 ft·lb _f)

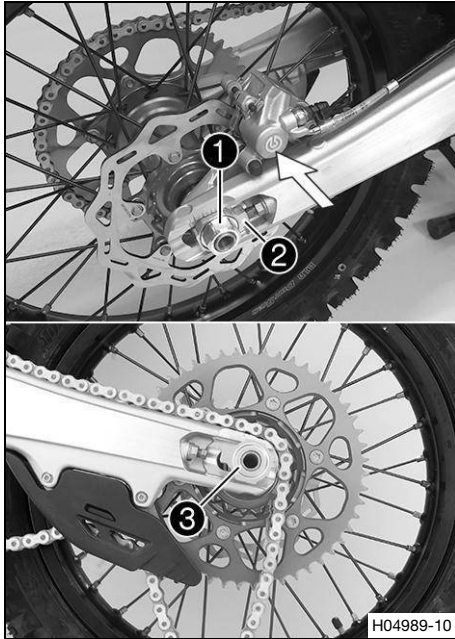
- Operate the hand brake lever several times until the brake pads are in contact with the brake disc.
- Remove the motorcycle from the lift stand. (p. 60)
- Operate the front brake and compress the fork a few times firmly.
✓ The fork legs straighten.
- Tighten screws ③.

Screw, fork shoe	
M8	15 Nm (11.1 ft·lb _f)

13.3 Removing the rear wheel

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)



Main work

- Manually press the brake caliper toward the brake disc to push back the brake pistons.
- Make sure that you do not press the brake caliper against the spokes when pushing back the brake pistons.
- Remove nut ①.
 - Remove chain tension adjuster ②.
 - Pull out wheel spindle ③ far enough to allow the rear wheel to be pushed forward.
 - Push the rear wheel forward as far as possible. Remove the chain from the rear sprocket.

Protect the components against damage by covering them.



WARNING

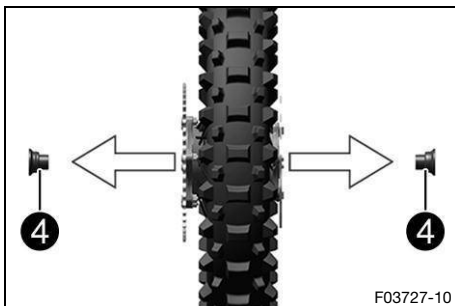
Danger of accidents Damaged brake discs reduce the braking action.

- Always lay the wheel down in such a way that the brake disc is not damaged.

- Hold the rear wheel and remove wheel spindle. Take the rear wheel out of the swingarm.

Do not actuate the brake pedal when the rear wheel is removed.

- Remove spacers ④.



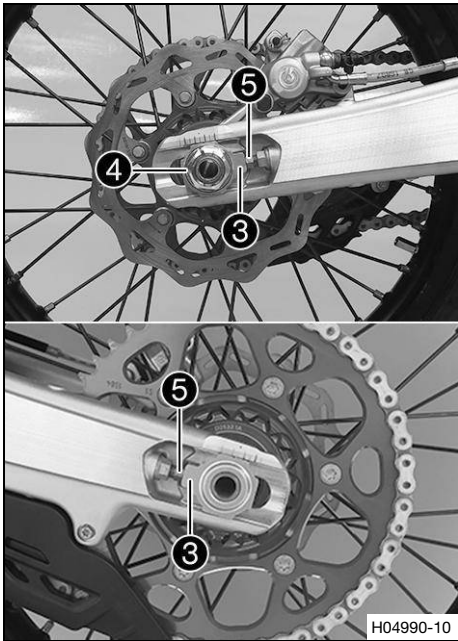
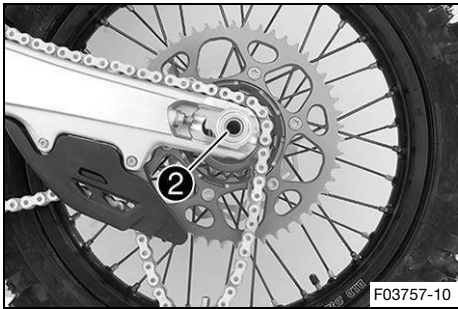
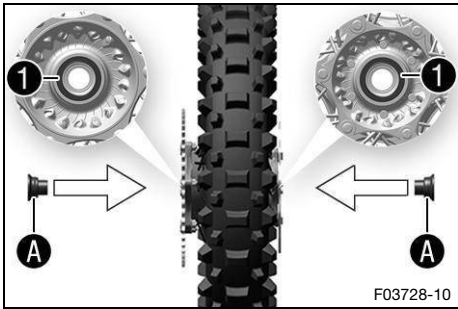
13.4 Installing the rear wheel



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



Main work

- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
- Clean and grease radial shaft seal **1** and contact surfaces **A** on the spacers.

Long-life grease (p. 183)

- Insert spacers.

- Clean and lightly grease the wheel spindle.

Long-life grease (p. 183)

- Position the rear wheel and insert wheel spindle **2**.
 - ✓ The brake pads are positioned correctly.
- Attach the chain.

- Position chain tension adjuster **3**.
- Mount nut **4** but do not tighten yet.
- Make sure that chain tension adjusters **3** are fitted correctly on adjusting screws **5**.
- Check the chain tension. (p. 96)
- Tighten nut **4**.

Nut, wheel spindle, rear	
M22×1.5	80 Nm (59.0 ft·lb _r)

i Note
The wide adjustment range of the chain adjusters enables different secondary ratios with the same chain length.
Chain tension adjusters **3** can be turned by 180°.

- Actuate the brake disc repeatedly until the brake pads are in contact with the brake disc and a pressure point is achieved.

Reworking

- Remove the motorcycle from the lift stand. (p. 60)

13.5 Checking the tire condition



Note

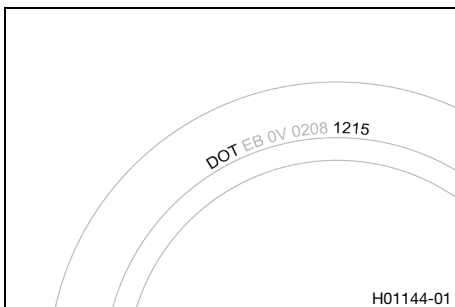
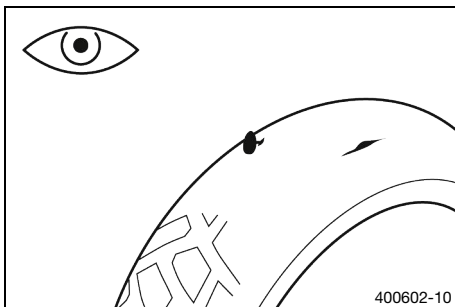
Only mount tires approved and/or recommended by Husqvarna Mobility.
Other tires could have a negative effect on handling characteristics.
The type, condition, and pressure of the tires all have a major impact on the handling of the motorcycle.
The tires mounted on the front and rear wheels must have a similar profile.
Worn tires have a negative effect on handling characteristics, especially on wet surfaces.

Preparatory work

- Raise the motorcycle with a lift stand. (p. 60)

Main work

- Check the front and rear tires for cuts, embedded objects, and other damage.
 - » If the tires have cuts, run-in objects, or other damage:
 - Change the tires.



- Check the tire age.



Note

The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture.

Husqvarna Mobility recommends changing the tires, regardless of the actual wear, after 5 years at the latest.

- » If the tires are older than five years:
 - Change the tires.

Reworking

- Remove the motorcycle from the lift stand. (p. 60)

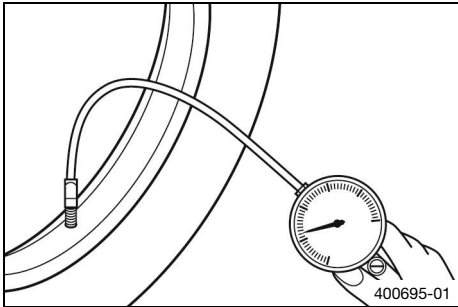


13.6 Checking the tire pressure



Note

Low tire pressure leads to abnormal wear and the tire overheating.
Correct tire pressure ensures optimal riding comfort and maximum tire service life.



- Remove the protection cap.
- Check the tire pressure when the tires are cold.

Off-road tire pressure	
front	1.0 bar (14.5 psi)
rear	1.0 bar (14.5 psi)

- » If the tire pressure does not meet specifications:
 - Correct tire pressure.
- Mount the protection cap.

13.7 Checking the spoke tension

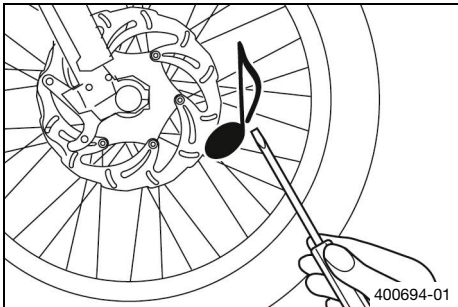
WARNING

Danger of accidents Incorrectly tensioned spokes impair the handling characteristic and can result in secondary damage.

If the spokes are too tight, they can break due to being overloaded.

Loose spokes can cause lateral or radial run-out in the wheel and other spokes will loosen as a result.

- Check the spoke tension regularly, especially on a new vehicle.



- Briefly tap each spoke with a screwdriver.

You should hear a high-pitched sound.

Note

The frequency of the sound depends on the spoke length and spoke diameter.

If spokes of the same length and diameter vibrate with a different tone, this is an indication that the spoke tensions differ.

- » If the spoke tension differs:
 - Correct the spoke tension.
- Check the spoke torque.

Spoke nipple, front wheel	
M4,5	6 Nm (4.4 ft·lb _f)
Spoke nipple, rear wheel	
M4,5	6 Nm (4.4 ft·lb _f)

Torque wrench kit (58429094000)

14.1 Removing the 12 V battery



CAUTION

- Danger of burns** The regulator rectifier gets very hot when the vehicle is operated.
- Allow the regulator rectifier to cool down before performing any work.



NOTE

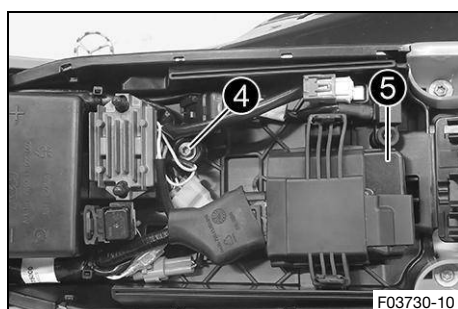
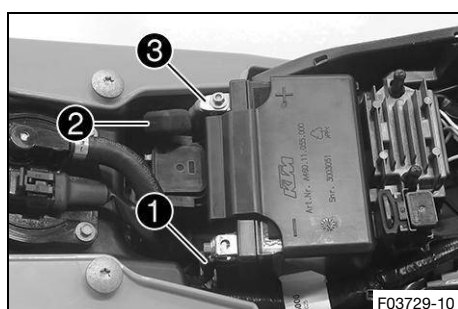
- Environmental hazard** 12-V batteries contain environmentally-hazardous materials.
- Do not dispose of 12-V batteries as household waste.
 - Dispose of 12-V batteries at a collection point for used batteries.

Preparatory work

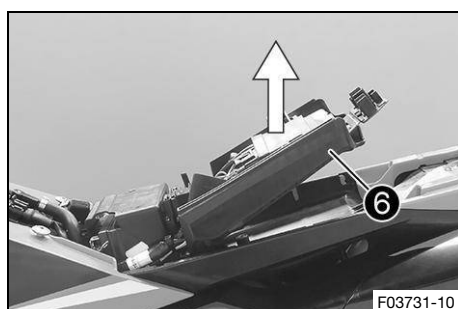
- Remove the seat. (p. 81)

Main work

- Disconnect negative cable **1** from the 12 V battery.
- Pull back positive terminal cover **2** and disconnect positive cable **3** from the 12-V battery.



- Remove screw **4**.
- Pull off engine control unit **5** from the holder and hang to the side.



- Pull up battery holding bracket **6** and remove the 12-V battery to the rear.

Pay attention to the wiring harness.

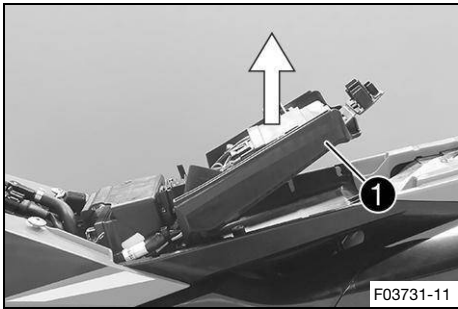
14.2 Installing the 12 V battery

Main work

- Pull up battery holding bracket ①, insert the 12-V battery into the battery compartment with the terminals facing upwards and secure with battery holding bracket ①.

Ensure that the cable is routed correctly.

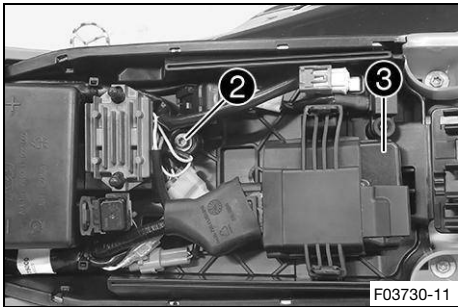
12-V battery (HJTZ5S-FP-C) (p. 186)



- Mount and tighten screw ②.

Remaining screws on chassis	
M6	10 Nm (7.4 ft·lb _f)

- Attach the engine control unit ③ to the holder.



- Connect positive cable ④ to the 12 V battery.

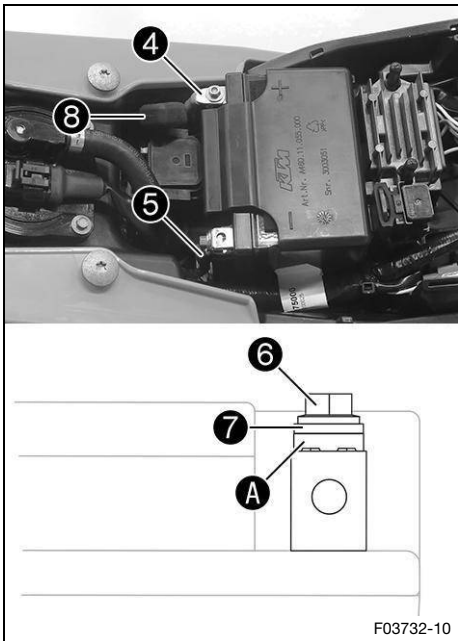
Screw, battery terminal	
M5	2.5 Nm (1.84 ft·lb _f)

- Connect negative cable ⑤ to the 12 V battery.

Screw, battery terminal	
M5	2.5 Nm (1.84 ft·lb _f)

Contact disks A must be mounted under screws ⑥ and cable lug ⑦ with the claws toward the battery terminal.

- Slide positive terminal cover ⑧ over the positive terminal.



Reworking

- Mount the seat. (p. 82)

14.3 Charging the 12 V battery



WARNING

Risk of injury 12-V batteries contain harmful substances.

- Keep 12-V batteries out of the reach of children.
- Keep the battery away from sparks or open flames.
- Only charge batteries in well-ventilated rooms.
- Maintain a minimum distance from flammable materials when charging 12-V batteries.

Minimum distance	1 m (3 ft – 3 in)
------------------	----------------------

- Do not charge deeply discharged 12- V batteries if the charge is already below the minimum voltage.

Minimum voltage before starting charging	9 V
--	-----

- Dispose of 12 V batteries correctly if they have less than the minimum voltage.



NOTE

Environmental hazard 12-V batteries contain environmentally-hazardous materials.

- Do not dispose of 12-V batteries as household waste.
- Dispose of 12-V batteries at a collection point for used batteries.



Note

Even when there is no load on the 12 V battery, it discharges steadily each day.

The state of charge and the method of charging are very important for the service life of the 12 V battery. Rapid recharging with a high charging current shortens the service life of the battery.

If the charging current, charging voltage, or charging time is exceeded, the 12 V battery will be destroyed.

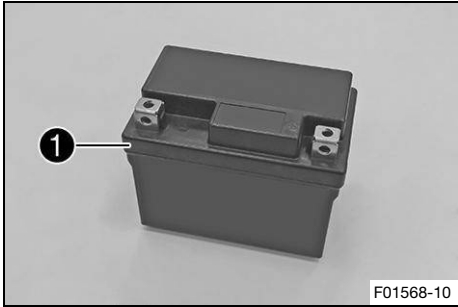
If the 12 V battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.

If the 12 V battery is left in a discharged state for an extended period, it will become deeply discharged and suffer a loss of capacity, destroying the battery.

The 12 V battery is maintenance-free.

Preparatory work

- Remove the seat.  (p. 81)
- Remove the 12 V battery.   (p. 125)



Main work

- Do not remove cover 1.
- Check the battery voltage.
 - » Battery voltage:
 - < 9 V
 - Do not charge the 12 V battery.
 - Replace the 12 V battery and dispose of the old 12 V battery properly.
 - » If the specifications have been met:
 - Battery voltage:
 - ≥ 9 V
 - Connect a charger to the 12 V battery. Switch the charger on.

Read the accompanying instructions.	
Maximum charging voltage	14.4 V
Minimum charging voltage	3.0 A
Maximum charging time	24 h
The charging current, charging voltage, and charging time must not be exceeded.	
Recharge the 12 V battery regularly when the motorcycle is not being used.	6 months
If the 12 V battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.	
Battery charger (79629974000)	
(US) battery charger (79629974500)	

**Note**

This battery charger tests whether the 12 V battery retains its voltage. It is also impossible to overcharge the 12 V battery with this battery charger. The charging time may be longer at low temperatures.

This battery charger is only suitable for lithium iron phosphate batteries.

- Switch off the charger after charging and disconnect from the 12 V battery.

Reworking

- Install the 12 V battery.   (p. 126)
- Mount the seat.  (p. 82)



14.4 Changing the main fuse



WARNING

Fire hazard Incorrect fuses overload the electrical system.

- Use only fuses with the prescribed amperage.
- Do not bypass or repair fuses.



CAUTION

Danger of burns The regulator rectifier gets very hot when the vehicle is operated.

- Allow the regulator rectifier to cool down before performing any work.



Note

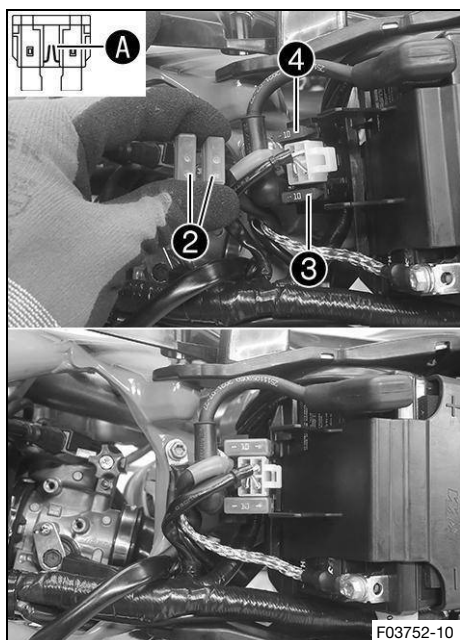
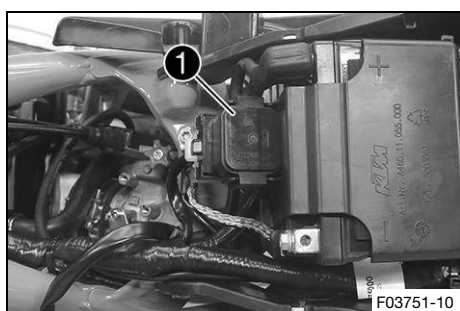
The main fuse protects all electrical power loads of the vehicle. It is located in the starter relay housing under the seat.

Preparatory work

- Remove the seat. (p. 81)
- Remove the fuel tank. (p. 91)

Main work

- Pull starter relay **1** off of the bracket.



- Remove protection caps **2**.
- Remove faulty main fuse **3**.



Note

A faulty fuse has a burned-out fuse wire **A**.

A spare fuse **4** is located in the starter relay.

- Insert the main fuse.

Fuse (58011109110) (p. 186)

- Check that the electrical equipment is functioning properly.



Tip

Insert a new spare fuse so that it is available if needed.

- Mount the protection caps.
- Mount the starter relay onto the holder and route the cable.

Reworking

- Install the fuel tank.   (p. 93)
- Mount the seat.  (p. 82)

14.5 Changing the fuse of the fuel pump



WARNING

Fire hazard Incorrect fuses overload the electrical system.

- Use only fuses with the prescribed amperage.
- Do not bypass or repair fuses.



CAUTION

Danger of burns The regulator rectifier gets very hot when the vehicle is operated.

- Allow the regulator rectifier to cool down before performing any work.



Note

The fuel pump is protected by the fuel pump fuse. This is located under the seat.

Preparatory work

- Remove the seat.  (p. 81)

Main work

- Remove protection cap **1**.
- Remove faulty main fuse **2**.



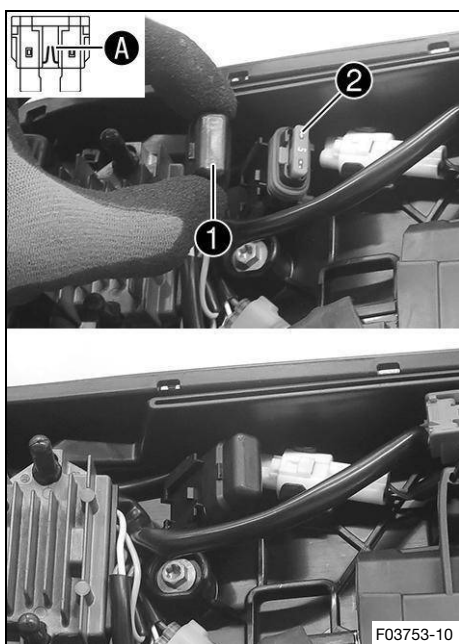
Note

A faulty fuse has a burned-out fuse wire **A**.

- Put in the new fuse for the fuel pump.

Fuse (58011109105)  (p. 186)

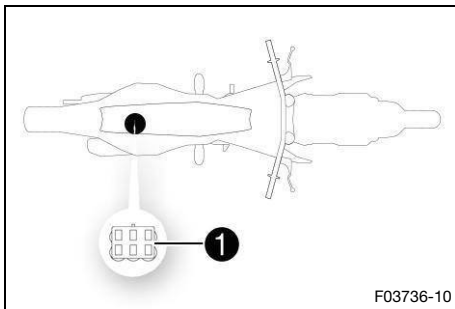
- Check that the electrical equipment is functioning properly.
- Attach the protection cap.



Reworking

- Mount the seat.  (p. 82)

14.6 Diagnostic connector



Diagnostics connector **1** is located under the seat.

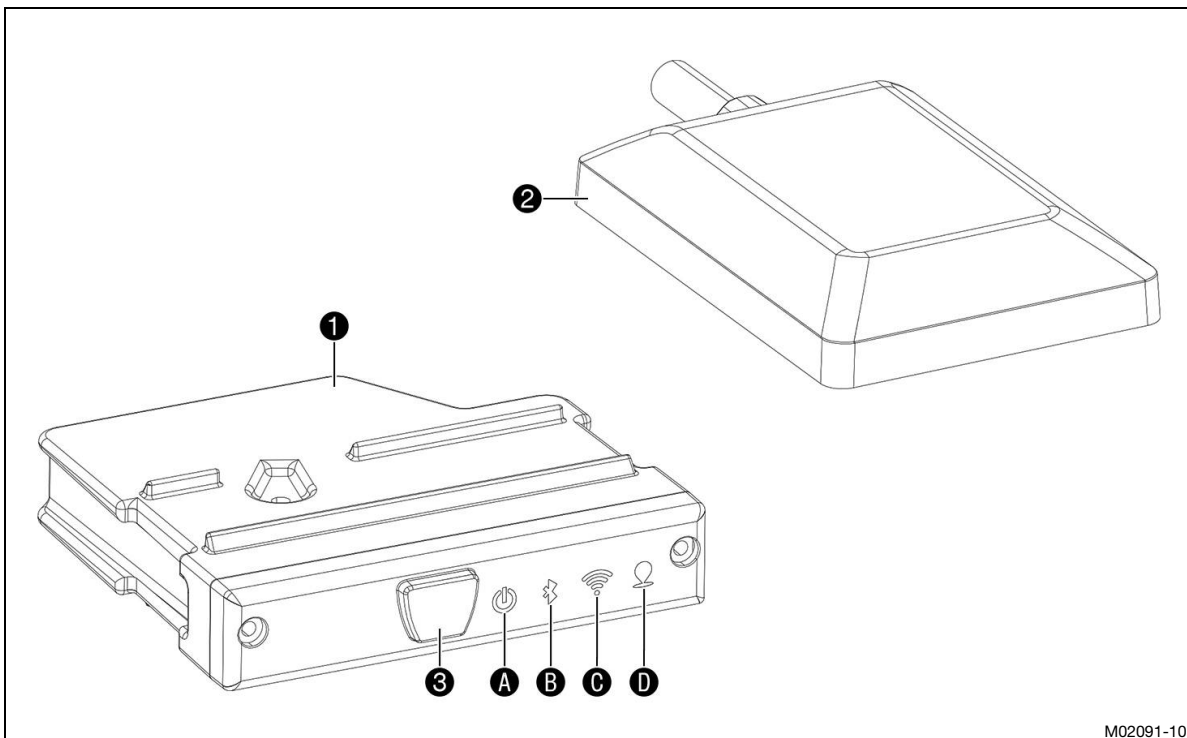


Note

As soon as the diagnostics tool is connected, the hourmeter starts running.

Before longer diagnostic sessions, unplug the hourmeter behind the number plate.

14.7 connectivity Unit Offroad (Factory edition)



Connectivity Unit Offroad **1** is attached on the right fork leg.

GPS unit **2** is mounted on the fender.

The app provided by the manufacturer guides you through the operation of the Connectivity Unit Offroad.

Condition	Meaning
Button 3 is pressed briefly (<1.5 s)	A recording is started or stopped.
Button 3 pressed and held (1.5 s ... 6 s)	The pairing process is started.
Button 3 pressed and held (6 s ... 12 s)	The Connectivity Unit Offroad is prepared for reset to factory settings.
Button 3 pressed and held (12 s ... 18 s)	The Connectivity Unit Offroad is reset to factory settings.
Button 3 is pressed and held (>18 s)	All processes are aborted, the Connectivity Unit Offroad condition is not changed, all indicator lamps go out.

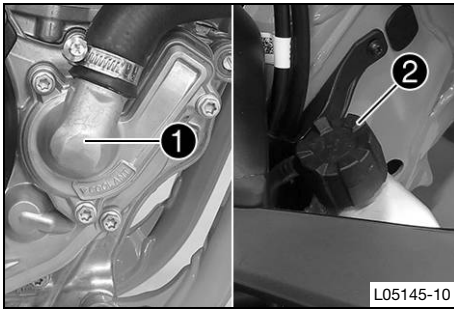
Condition	Meaning
Indicator lamp A does not light up	The Connectivity Unit Offroad is switched off.
Indicator lamp A lights up blue	The Connectivity Unit Offroad is ready for operation.
Indicator lamp A flashes blue	A recording is downloaded.
Indicator lamp A flashes green	A recording is active.
Indicator lamp A flashes yellow	A recording was started before the position was captured via GPS.
Indicator lamp B does not light up	The Bluetooth® module is switched off.
Indicator lamp B lights up blue	Bluetooth® is active and no end device is stored.
Indicator lamp B flashes blue	The pairing procedure via Bluetooth® has been started.
Indicator light B lights up green	The Connectivity Unit Offroad is connected to an end device via Bluetooth® .
Indicator lamp C does not light up	The WiFi module is switched off.
Indicator lamp C lights up blue	The WiFi module is active but not connected.
Indicator light C lights up green	The WiFi module is active and connected.
Indicator lamp D does not light up	The GPS module is switched off.
Indicator lamp D lights up blue	The GPS module is active but the position is not detected.
Indicator light D lights up green	The GPS module is active and the position is detected.
All indicator lamps flash blue	The Connectivity Unit Offroad is prepared for reset to factory settings.
All indicator lamps light up green	The Connectivity Unit Offroad is reset to factory settings.



Note

Possible trouble codes of indicator lamp **A** are described in the Troubleshooting section.

15.1 Cooling system



Water pump **1** in the engine circulates the coolant. The pressure resulting from the warming of the cooling system is regulated by a valve in radiator cap **2**. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

120 °C (248.0 °F)

The coolant is cooled by the air stream. The lower the vehicle speed, the lower the cooling effect. Dirty cooling fins also reduce the cooling effect.

15.2 Checking the frost protection and coolant level



WARNING

Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.

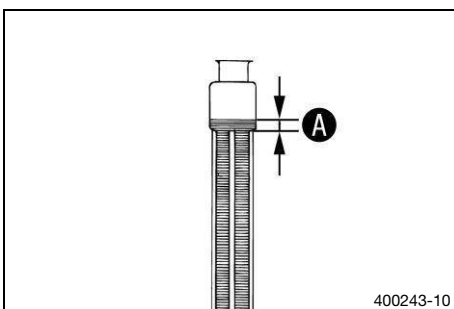


WARNING

Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold



- Stand the motorcycle upright on a level surface.
- Take off the radiator cap.
- Check the frost protection in the coolant.

–45 °C ... –25 °C (–49.0 °F ... –13.0 °F)
--

» If the frost protection in the coolant does not match the specified value:

- Correct the frost protection in the coolant.

- Check the coolant level in the radiator.

Coolant level A above the radiator fins	10 mm (0.39 in)
--	--------------------

- » If the coolant level does not meet the specifications:
 - Correct the coolant level.

coolant	
Coolant  (p. 184) Antifreeze protection to at least: -25 °C (-13.0 °F)	0.90 l (0.238 liq. gal _{US})

- Mount the radiator cap.

15.3 Checking the coolant level



WARNING
Health hazard Coolant is harmful to health.

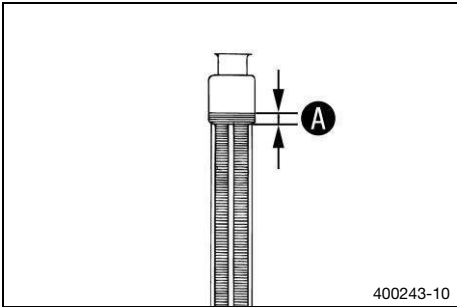
- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold



- Stand the motorcycle upright on a level surface.
- Take off the radiator cap.
- Check the coolant level in the radiator.

Coolant level A above the radiator fins	10 mm (0.39 in)
--	--------------------

- » If the coolant level does not meet the specifications:
 - Correct the coolant level.

coolant	
Coolant  (p. 184) Antifreeze protection to at least: -25 °C (-13.0 °F)	0.90 l (0.238 liq. gal _{US})

- Mount the radiator cap.

15.4 Draining the coolant



WARNING

Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



WARNING

Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

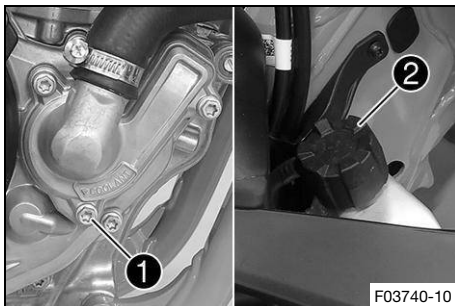
Condition: The engine is cold

Preparatory work (Factory edition)

- Remove the skid plate.  (p. 64)

Main work

- Stand the motorcycle upright.
- Place an appropriate container under the water pump cover.
- Remove screw **1**.
- Take off radiator cap **2**.
- Completely drain the coolant.
- Mount screw **1** with the new sealing ring and tighten.



Screw, water pump cover	
M6	10 Nm (7.4 ft·lb _f)



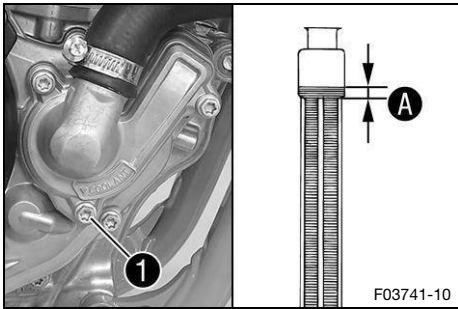
15.5 Refilling the coolant



WARNING

Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



Main work

- Make sure that screw 1 is tightened.
- Stand the motorcycle upright.
- Pour coolant in up to level A above the radiator fins.

Distance A above the radiator fins	10 mm (0.39 in)
coolant	
Coolant (p. 184)	0.90 l (0.238 liq. gal _{US})
Antifreeze protection to at least: -25 °C (-13.0 °F)	

- Mount the radiator cap.
- Go for a short test ride.
- Check the coolant level. (p. 134)

Reworking
(Factory edition)

- Install the skid plate. (p. 64)

15.6 Changing the coolant



WARNING
Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



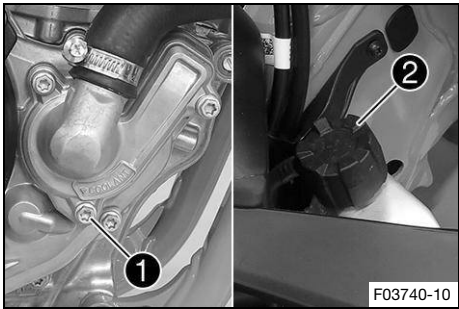
WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold

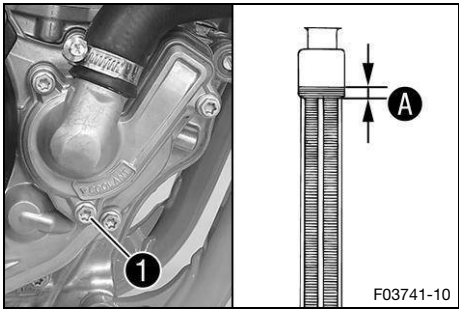
Preparatory work
(Factory edition)

- Remove the skid plate. (p. 64)



Main work

- Stand the motorcycle upright.
- Place an appropriate container under the water pump cover.
- Remove screw 1.
- Take off radiator cap 2.
- Completely drain the coolant.



- Mount screw 1 with the new sealing ring and tighten.

Screw, water pump cover	
M6	10 Nm (7.4 ft·lb _f)

- Pour coolant in up to level A above the radiator fins.

Distance A above the radiator fins	10 mm (0.39 in)
------------------------------------	--------------------

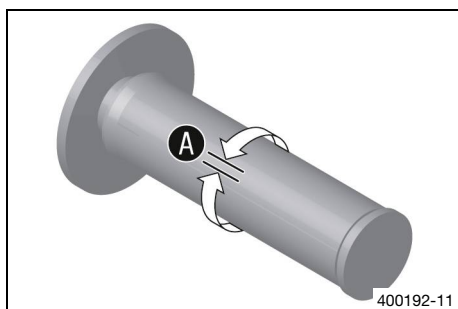
coolant	
Coolant (p. 184) Antifreeze protection to at least: -25 °C (-13.0 °F)	0.90 l (0.238 liq. gal _{US})

- Mount the radiator cap.
- Go for a short test ride.
- Check the coolant level. (p. 134)

Reworking
(Factory edition)

- Install the skid plate. (p. 64)

16.1 Checking the play in the throttle cable



- Check the throttle grip for smooth operation.
- Move the handlebar to the straight-ahead position. Turn the throttle twist grip back and forth slightly and determine the play in throttle cable **A**.

Throttle cable play	3 mm ... 5 mm (0.12 in ... 0.20 in)
---------------------	--

- » If the throttle cable play does not meet the specified value:
 - Adjust the throttle cable play. (p. 138)
- Press the cold start button in all the way to the stop.

When the throttle twist grip is turned forward, the cold start button jumps back to the start position.

- » If the cold start button does not return to its original position:
 - Adjust the throttle cable play. (p. 138)



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and let it run at idle speed. Move the handlebar back and forth over the entire steering range.

The idle speed must not change.

- » If the idle speed changes:
 - Adjust the throttle cable play. (p. 138)

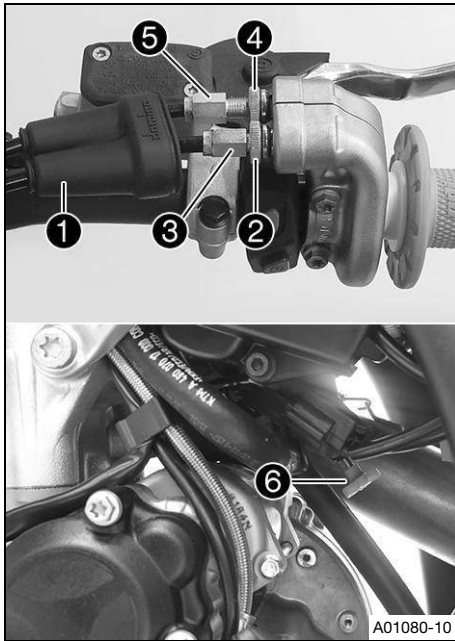
16.2 Adjusting the throttle cable play

Note

If the correct routing of the throttle cables has already been secured, the fuel tank does not need to be removed.

Preparatory work

- Remove the seat. (p. 81)
- Remove the fuel tank. (p. 91)
- Check the throttle cable routing. (p. 100)



Main work

- Move the handlebar to the straight-ahead position.
- Push back boot ①.
- Loosen nut ②.
- Screw adjusting screw ③ in as far as possible.
- Loosen nut ④.
- Press cold start button ⑥ all the way to the stop.
- Turn adjusting screw ⑤ so that the cold start button moves to the basic position when the throttle twist grip is turned forward.
- Tighten nut ④.
- Turn adjusting screw ③ so that there is play in the throttle cable at the throttle twist grip.

Throttle cable play	3 mm ... 5 mm (0.12 in ... 0.20 in)
---------------------	--

- Tighten nut ②.
- Slide on boot ①.
- Check the throttle grip for smooth operation.

Reworking

- Check the play in the throttle cable. 📖 (p. 138)
- Install the fuel tank. 🛠️ 📖 (p. 93)
- Mount the seat. 📖 (p. 82)



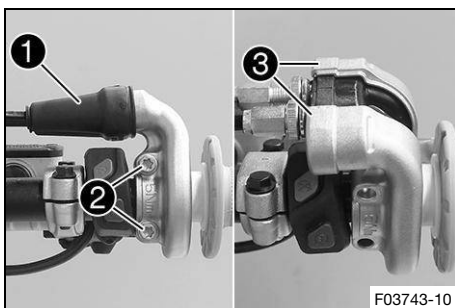
16.3 Adjusting the characteristic map of the throttle response 🛠️



Note

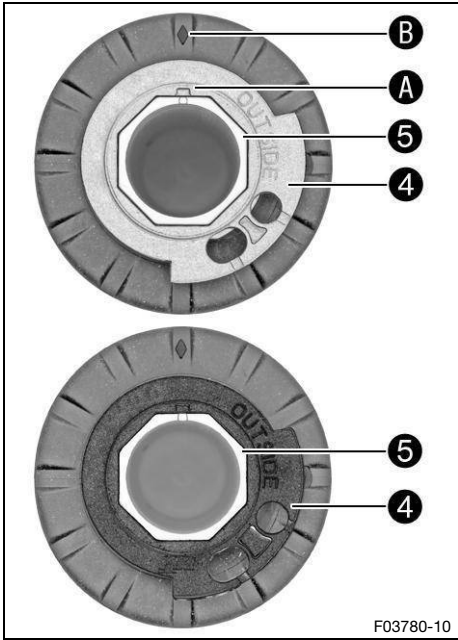
On the throttle grip, the characteristic map of the throttle response is changed by changing the guide plate.

A guide plate with a different characteristic map is supplied.



Main work

- Push back boot ①.
- Remove screws ② and half-shells ③.
- Detach the throttle cables and take off the grip tube.



- Remove guide plate ④ from handle tube ⑤.
- Position the required guide plate on the grip tube.

The label **OUTSIDE** must be visible. Marking **A** must be positioned at marking **B**.

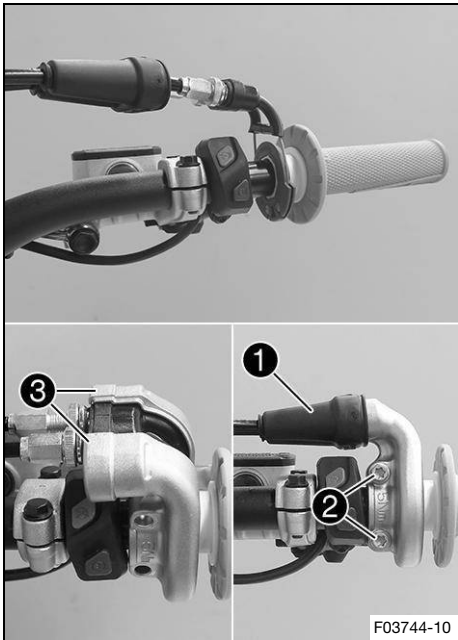
Black guide plate (A46002014000)

Work material (Alternative 1 / 1)

Gray guide plate (A48002014000)

Note

The gray guide plate opens the throttle valve more slowly.
The black guide plate opens the throttle valve more quickly.



- Clean the outside of the handlebar and the inside of the grip tube. Mount the grip tube on the handlebar.
- Attach the throttle cables to the guide plate and route correctly.
- Position half-shells ③, mount and tighten screws ②.

Screw, throttle twist grip	
M6	5 Nm (3.7 ft·lb _r)

- Slide on sleeve ① and check the throttle grip for ease of movement.

Reworking

- Check the play in the throttle cable. (p. 138)

16.4 Changing the mapping



Note

The desired engine characteristic can be activated using the combination switch.
The setting most recently selected is activated again when restarting.
Traction control can also be activated in each mapping.
The mapping can also be changed during the ride.

- Select one of the following alternatives.

Activating STANDARD mapping:

- Press button ①.

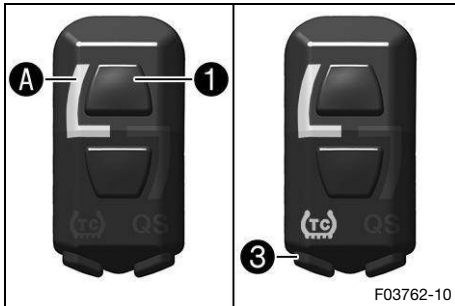
Engine speed	< 4,000 rpm (< 66.67 Hz)
--------------	-----------------------------

- ✓ Indicator light ① lights up.
- ✓ STANDARD: balanced response



Note

Traction control can be activated additionally using TC button ③.



Activating ADVANCED mapping:

- Press button ②.

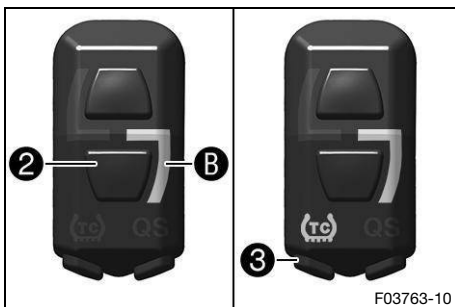
Engine speed	< 4,000 rpm (< 66.67 Hz)
--------------	-----------------------------

- ✓ Indicator light ② lights up.
- ✓ ADVANCED: direct response



Note

Traction control can be activated additionally using TC button ③.



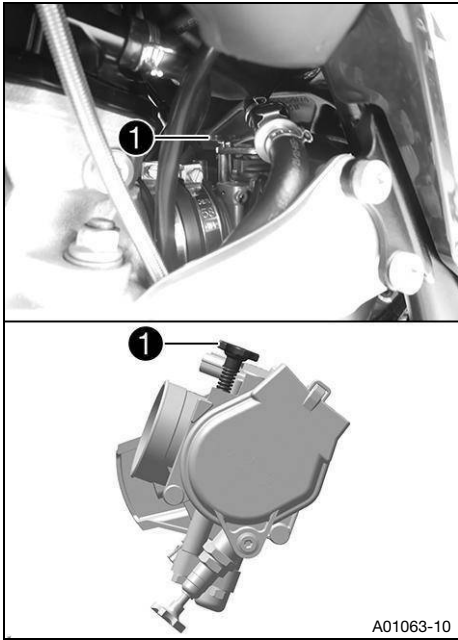
16.5 Adjusting the idle speed



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



- Run the engine until warm.
 - ✓ The cold start button is in the basic position.

DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

- Adjust the idle speed by turning idle speed adjusting screw **1** using a suitable rpm gauge.

Make the adjustment in small steps.	
Idle speed	2,250 rpm ... 2,350 rpm (37.50 Hz ... 39.17 Hz)

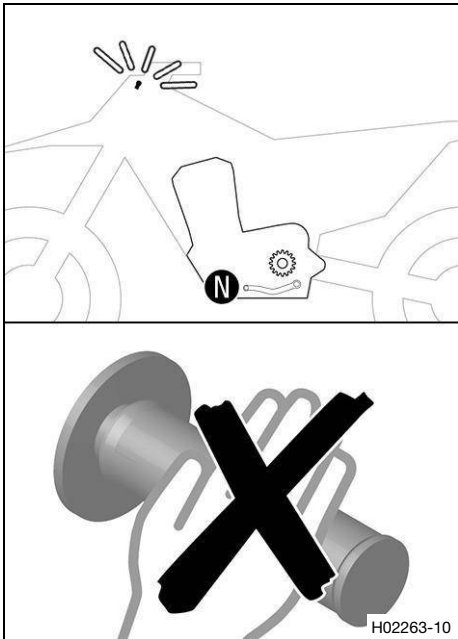
Note

Turning counterclockwise lowers the idle speed.
Turning clockwise increases the idle speed.
An incorrect idle speed can have a negative impact on overall engine running.

16.6 Programming the throttle valve position

Note

If the control unit detects that the throttle valve position at idle speed needs to be reprogrammed, then the malfunction indicator lamp flashes 2x per second.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

- Allow the vehicle to run at idle speed.
 - ✓ The malfunction indicator lamp stops flashing once programming is completed.

Note

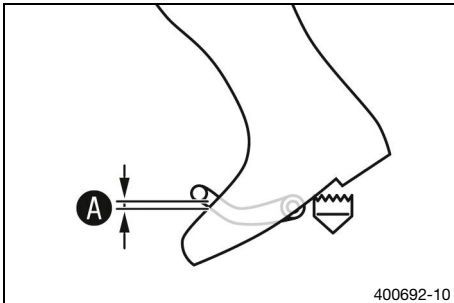
If the engine becomes too warm, perform a cool-down ride at medium speed.
After this, do not switch off the engine, but leave it running at idle speed until the programming is finished.

16.7 Checking the basic position of the gear shift lever



Note

When driving, the gear shift lever must not touch the rider's boot when in the basic position.
If the shift lever is permanently touching the boot, the transmission will be subject to excessive load; this can cause a malfunction of the quickshifter.

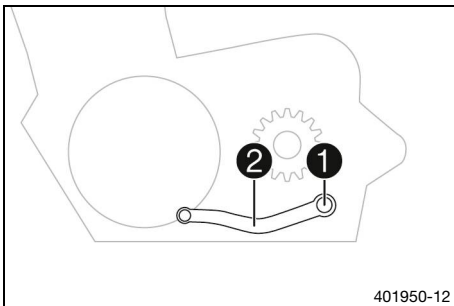


- Sit on the vehicle in the riding position and measure the distance **A** between the upper edge of your boot and the shift lever.

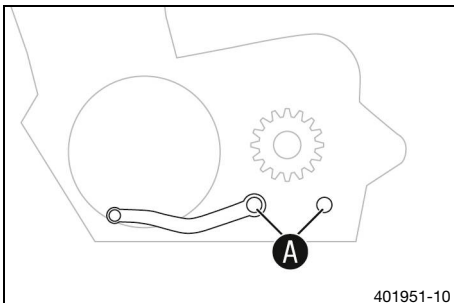
Distance between the gear shift lever and upper edge of boot	10 mm ... 20 mm (0.39 in ... 0.79 in)
--	--

- » If the distance does not meet the specifications:
 - Adjust the basic position of the gear shift lever.
 - (p. 143)

16.8 Adjusting the basic position of the gear shift lever



- Remove screws **1** with the washers and remove gear shift lever **2**.



- Clean tothing **A** of the gear shift lever and shift shaft.
- Mount the gear shift lever on the shift shaft in the desired position and engage the tothing.

The gear shift lever must not come into contact with any other vehicle components during the shift procedure.



Note

The range of adjustment is limited.

- Mount and tighten screw **1** with the washers.

Screw, shift lever	
M6	14 Nm (10.3 ft·lb) Loctite® 243

17.1 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, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

Danger of poisoning Fuel is harmful to health.

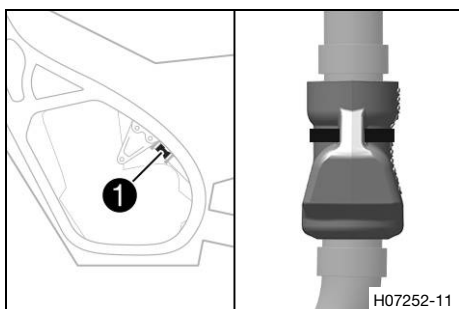
- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



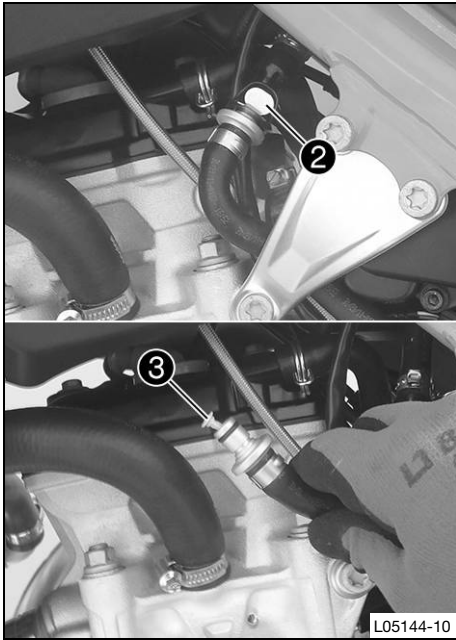
NOTE

Environmental hazard Improper handling of fuel is dangerous to the environment.

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



- Remove the cable tie of protection cap ①.
- Remove the protection cap of the fuel line.



- Clean quick-lock coupling ② thoroughly with compressed air.

Dust must not enter the fuel line. Dirt in the fuel line clogs the injector!

- Disconnect the quick-lock coupling.



Note

Remaining fuel may flow out of the fuel hose.

- Pull fuel screen ③ out of the connecting piece.
- Slide the new fuel screen all the way into the connecting piece.
- Spray silicone spray onto a lint-free cleaning cloth and lightly lubricate the O-ring of the quick-lock coupling.

Silicone spray 📖 (p. 184)

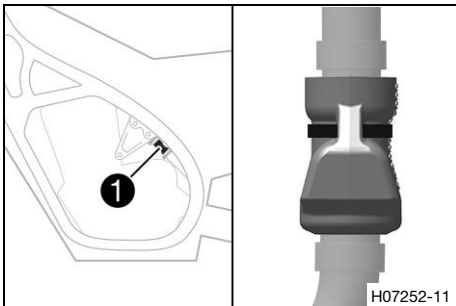
- Join quick release coupling ②.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



- Start the engine and check the response.
- Mount the protection cap of the fuel line.
- Mount the cable tie of protection cap ①.

17.2 Checking the engine oil level



Note

The engine oil level can be checked when the engine is cold or warm.

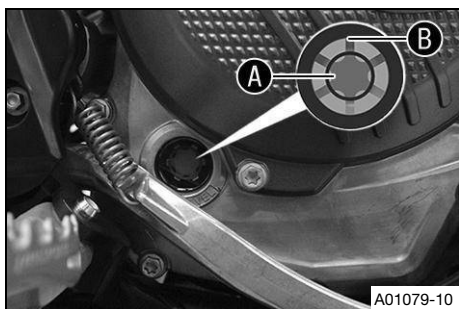
Preparatory work

- Stand the motorcycle upright on a level surface.

Main work

- Select one of the following alternatives.

Condition: The engine is cold



- Check the engine oil level.

The engine oil reaches the middle of level viewer **A**.

- » If the engine oil does not reach the middle of the level viewer:
 - Add engine oil. (p. 148)

Condition: The engine is at operating temperature

- Check the engine oil level.

The engine oil level is between the middle of the level viewer **A** and the upper edge of the level viewer **B**.

After switching off the engine, wait one minute before checking the level.

- » If the engine oil does not reach the middle of level viewer **A**:
 - Add engine oil. (p. 148)

17.3 Changing the engine oil and oil filter, cleaning the oil screen



WARNING

Danger of scalding Engine and gear oil heat up when the motorcycle is operated.

- Wear suitable protective clothing and safety gloves.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



NOTE

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

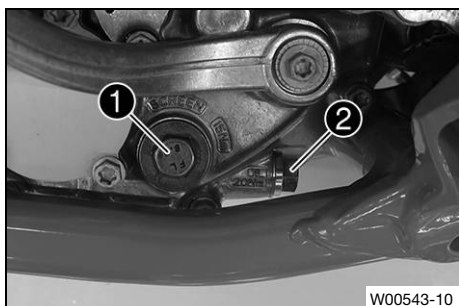
Condition: The engine is at operating temperature

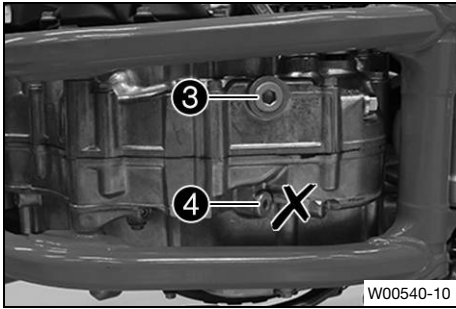
Preparatory work (Factory edition)

- Remove the skid plate. (p. 64)
- Park the motorcycle on a level surface.

Main work

- Position an appropriate container under the engine.
- Remove screw plug **1** with oil screen and the O-rings.
- Remove oil drain plug **2** with the magnet and seal ring.





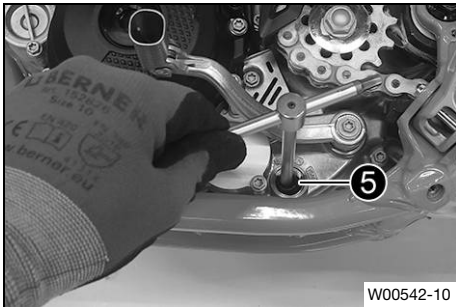
- Remove screw plug 3 with the magnet and sealing ring.

Do not remove screws 4.

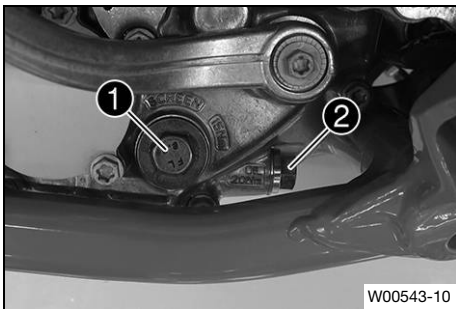
- Allow the engine oil to drain completely.
- Thoroughly clean the parts and the sealing surfaces.
- Mount and tighten screw plug 3 with new O-ring.

Screw plug, crankcase

M14×1.5	15 Nm (11.1 ft·lb _f)
---------	-------------------------------------



- Position oil screen 5 with the O-rings on a pin wrench.
- Position the pin wrench through the drill hole of the screw plug in the opposite section of the engine case.
- Push the oil screen all the way into the engine case.



- Mount and tighten screw plug 1 with O-ring.

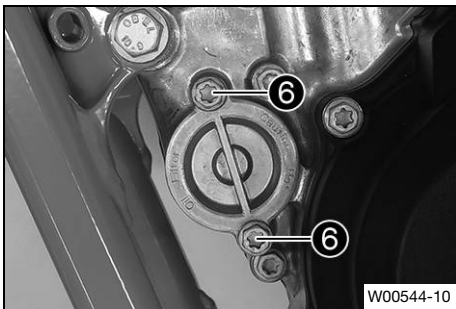
Plug, oil screen

M20×1.5	15 Nm (11.1 ft·lb _f)
---------	-------------------------------------

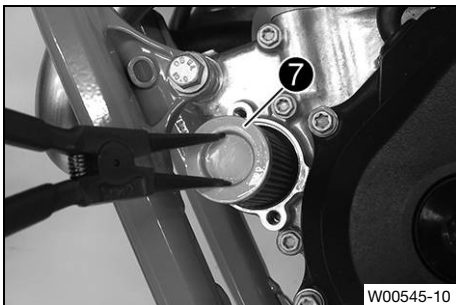
- Mount and tighten oil drain plug 2 with the magnet and a new seal ring.

Oil drain plug with magnet

M12×1.5	20 Nm (14.8 ft·lb _f)
---------	-------------------------------------



- Remove screws 6. Take off the oil filter cover with the O-ring.

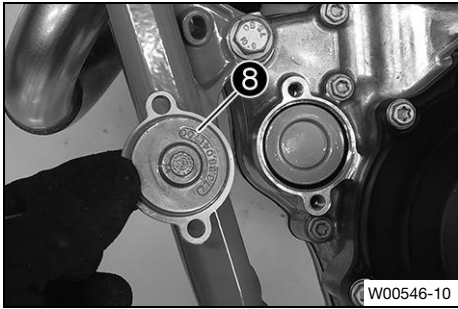


- Pull oil filter 7 out of the oil filter housing.

Lock ring plier (51012011000)

- Allow the engine oil to drain completely.
- Thoroughly clean the parts and the sealing surfaces.

17 Service work on the engine



- Lay the motorcycle on its side and fill the oil filter housing to about 1/3 full with engine oil.
- Fill the oil filter with engine oil and position the oil filter in the housing.
- Oil the O-ring of the oil filter cover and mount it together with oil filter cover 8.
- Mount and tighten the screws.

Screw, oil filter cover	
M6	10 Nm (7.4 ft·lb _f)

- Stand the motorcycle upright.
- Remove filler plug 9 with the O-ring, and fill up with engine oil.

engine oil	
Engine oil (10W/50) 📖 (p. 183) fully synthetic	1.0 l (0.26 liq. gal _{US})

Note
Too little engine oil or poor-quality engine oil will result in premature wear of the engine.

- Mount and tighten the oil plug together with the O-ring.

DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

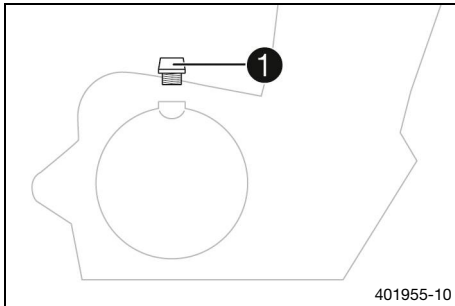
- Start the engine and check it for leaks.

Reworking (Factory edition)

- Install the skid plate. 📖 (p. 64)
- Check the engine oil level. 📖 (p. 145)

17.4 Adding engine oil

Note
Too little engine oil or poor-quality engine oil will result in premature wear of the engine.



Main work

- Remove oil plug ① with O-ring.
- Add the same engine oil used when the last oil change was carried out.

engine oil	
Engine oil (10W/50) 📖 (p. 183) fully synthetic	1.0 l (0.26 liq. gal _{US})

Note
For optimal performance of the engine oil, do not mix different types of engine oil.

Tip
Husqvarna Mobility recommends changing the engine oil when necessary.

- Mount and tighten the oil plug together with the O-ring.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check it for leaks.

Reworking

- Check the engine oil level. 📖 (p. 145)



18.1 Cleaning the motorcycle



NOTE
Material damage Components can be damaged or destroyed if a high-pressure cleaner is used incorrectly.

The high pressure forces water into the electrical components, socket connectors, clutch cables, and bearings, etc.

Too high a pressure can cause malfunctions and destroy components.

- Do not direct the water jet directly on to electrical components, socket connectors, clutch cables, or bearings.
- Maintain a minimum distance between the nozzle of the high-pressure cleaner and the component.

Minimum distance	60 cm (23.6 in)
------------------	--------------------

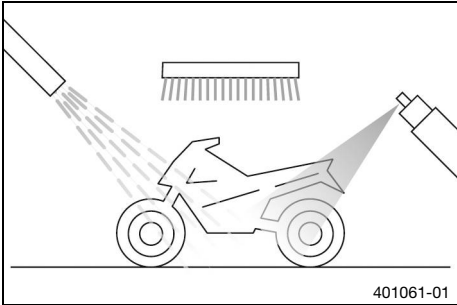


NOTE
Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.



Note
To maintain the value and appearance of the motorcycle over a long period, clean it regularly.
Avoid direct sunshine when cleaning the motorcycle.



- Seal the exhaust system to prevent water from entering into it.
- Remove loose dirt first with a soft jet of water.
- Spray the heavily soiled parts with a standard commercial motorcycle cleaner and clean using a brush.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

Environmentally neutral universal cleaning agent
 (p. 187)



Note
Use warm water containing standard motorcycle cleaner and a soft sponge.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the cover from the exhaust system.



WARNING
Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake pads and the brake discs.

- After cleaning, ride the vehicle a short distance until the engine warms up.

**Note**

The heat produced causes water to evaporate at inaccessible locations in the engine and on the brake system.

- Push back the protection caps of the handlebar controls to allow any water that has penetrated to evaporate.
- After the motorcycle has cooled off, lubricate all moving parts and pivot points.
- Clean the chain.  (p. 95)
- Treat bare metal (except for brake discs and the exhaust system) with an anticorrosive.

Preserving materials  (p. 187)

- Treat all plastic parts and powder-coated parts with a mild cleaning and care product.

Cleaning agents for plastics, glass, lacquers, metals, windshields and visors  (p. 187)
--



19.1 Storage



WARNING

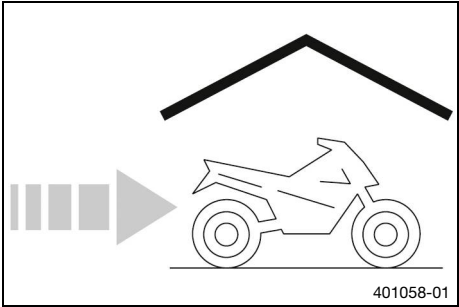
Danger of poisoning Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



Note

If the vehicle will not be ridden for an extended period, additional steps are recommended. Before storing the vehicle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (workshops less busy). This allows you to avoid long waiting periods when the next season starts.



- When refueling for the last time before taking the motorcycle out of service, add fuel additive.
- Fuel additive  (p. 182)
- Refuel.  (p. 37)
- 

Tip

Fill the fuel tank completely as specified, using fuel with the lowest possible ethanol content.
- Clean the motorcycle.  (p. 150)
 - Change the engine oil and oil filter, clean the oil screen.   (p. 146)
 - Check the frost protection and coolant level.  (p. 133)
 - Check the tire pressure.  (p. 123)
 - Remove the 12 V battery.   (p. 125)
 - Charge the 12 V battery.   (p. 127)
- | | |
|---|--|
| Ideal charging and storage temperature of the lithium-ion battery | 10 °C ... 20 °C
(50.0 °F ... 68.0 °F) |
|---|--|
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.
- 

Tip

Husqvarna Mobility recommends picking up the motorcycle.
- Raise the motorcycle with a lift stand.  (p. 60)

- Cover the vehicle with a tarpaulin or similar cover that is permeable to air.

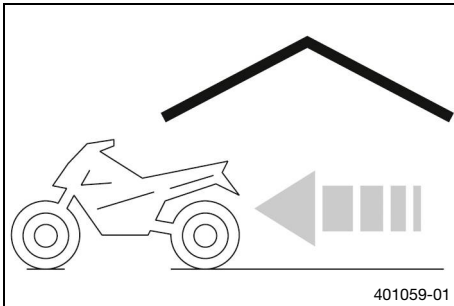
**Note**

Do not use any non-porous materials, as moisture cannot escape and corrosion can occur.

Avoid running the engine of a motorcycle in storage for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and the exhaust system to rust.



19.2 Preparing for use after storage



- Install the 12 V battery. (p. 126)
- Remove the motorcycle from the lift stand. (p. 60)
- Perform checks and maintenance measures when preparing for use. (p. 30)
- Take a test ride.

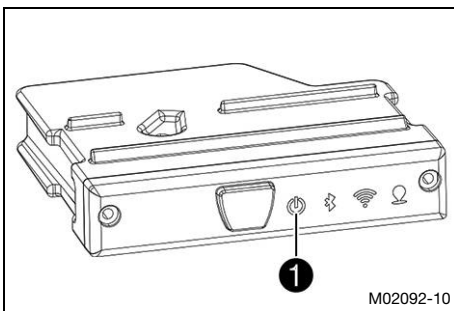


20.1 troubleshooting

Cause	Finding	Remedy		
The engine does not turn over when the start button is actuated	Operating error 12 V battery discharged Main fuse blown Starter relay defective Starter motor defective	– Carry out the starting procedure.  (p. 30) – Charge the 12 V battery.  –  (p. 127) – Check the charging voltage.  – Check the open-circuit current.  – Check the stator winding of the alternator  – Change the main fuse.  (p. 129) – Check the starter relay.  – Checking the starter motor 		
The engine turns but does not start	Quick-lock coupling not joined Fuel screen in the quick-lock coupling is clogged Idle speed is not set correctly Spark plug sooty or wet Plug gap of spark plug too wide Short-circuit cable in wiring harness frayed, kill switch faulty Malfunction in the electronic fuel injection	– Join quick-lock couplings. – Change the fuel screen.  –  (p. 144) – Adjust the idle speed.   (p. 141) – Clean and dry the spark plug and spark plug connector, or change if necessary. – Adjust plug gap.<table border="1" data-bbox="1034 958 1447 1030"><tr><td>Plug gap of spark plug</td><td>1.0 mm (0.039 in)</td></tr></table> – Check the wiring harness. (Visual check). – Check the electrical system. – Read out the fault memory using the diagnostics tool. 	Plug gap of spark plug	1.0 mm (0.039 in)
Plug gap of spark plug	1.0 mm (0.039 in)			
Engine does not speed up	Malfunction in the electronic fuel injection	– Read out the fault memory using the diagnostics tool. 		
Engine has too little power	Air filter is very dirty Fuel filter is very dirty Malfunction in the electronic fuel injection Exhaust system leaks, deformed or too little damping material in the silencer Valve clearance too little	– Clean the air filter and air filter box.  –  (p. 85) – Change the fuel filter.  – Read out the fault memory using the diagnostics tool.  – Check exhaust system for damage. – Change the damping material on the main silencer.   (p. 90) – Adjust the valve clearance. 		
The engine dies during the trip	Lack of fuel	– Refuel.  (p. 37)		
Engine overheats	Too little coolant in cooling system Too little air stream Radiator fins very dirty Foam formation in the cooling system Bent radiator hose	– Check the transmission and cooling system for leaks. – Check the coolant level.  (p. 134) – Switch off the engine when standing. – Clean the radiator fins. – Drain the coolant.   (p. 135) – Refill the coolant.   (p. 135)		

Cause	Finding	Remedy
		– Change the radiator hose. 🛠️
Malfunction indicator lamp lights up or flashes	Error in the electronic fuel injection	– Check the wiring for damage and the electrical plug-in connections for corrosion and damage. – Read out the fault memory using the diagnostics tool. 🛠️
High oil consumption	Engine vent hose bent The engine oil level is too high The engine oil is too thin (low viscosity) Piston or cylinder worn	– Route the vent hose without bends or change it if necessary. – Check the engine oil level. 📖 (p. 145) – Change the engine oil and oil filter, clean the oil screen. 🛠️ 📖 (p. 146) – Measure the piston/cylinder mounting clearance.
12 V battery discharged	12 V battery is not charging unwanted electrical load	– Check the charging voltage. 🛠️ – Check the stator winding of the alternator 🛠️ – Check the open-circuit current. 🛠️

20.2 Troubleshooting CUO (Factory edition)



Malfunctions are indicated by indicator lamp 1 flashing red.

Note
The individual flashes are 0.5 seconds long (0.25 seconds on, 0.25 seconds off).
The pause until the flash code repeats is 2 seconds.

20.2.1 Troubleshooting CUO (Factory edition)

Cause	Finding	Remedy
Flash code 2	No CAN communication	– Check connections on the Connectivity Unit Offroad.
Flash code 3	WiFi connection failed	– Repeat connection attempt.
Flash code 4	Bluetooth® connection failed	– Repeat connection attempt.
Flash code 5	Malfunction in the analog sensor	– Check connections on the Connectivity Unit Offroad.
Flash code 6	Stored VIN differs from the vehicle	– Press and hold button 3 (6 s ... 12 s).
Flash code 7	Recording memory full	– Delete recordings.
Continuously lights up red	Several malfunctions are present	– Press and hold button 3 (6 s ... 12 s).

21.1 Flash codes

Blink code for malfunction indicator light	 02: Malfunction indicator light flashes 2x short
Error level condition	Crankshaft speed sensor – circuit fault The induction manifold pressure sensor delivers a normal signal (engine running), while the crankshaft speed sensor does not generate any signal at all. Time: ≥ 2.0 s
Blink code for malfunction indicator light	 06: Malfunction indicator light flashes 6x short
Error level condition	Throttle valve position sensor circuit A – input signal too low Voltage: ≤ 0.352 V Time: ≥ 3 s Throttle valve position sensor circuit A – input signal too high Voltage: ≥ 4.785 V Time: ≥ 3 s
Blink code for malfunction indicator light	 09: Malfunction indicator light flashes 9x short
Error level condition	Induction manifold pressure sensor – input signal too high Voltage: ≥ 4.121 V Time: ≥ 3 s Induction manifold pressure sensor – input signal too low Voltage: ≤ 0.215 V Time: ≥ 3 s
Blink code for malfunction indicator light	 12: Malfunction indicator light flashes 1x long, 2x short
Error level condition	Coolant temperature sensor – input signal too high Voltage: ≥ 4.785 V Time: ≥ 3 s Coolant temperature sensor – input signal too low Voltage: ≤ 0.137 V Time: ≥ 3 s
Blink code for malfunction indicator light	 13: Malfunction indicator light flashes 1x long, 3x short
Error level condition	Intake air temperature sensor – input signal too high Voltage: ≥ 4.824 V Time: ≥ 3 s Intake air temperature sensor – input signal too low Voltage: ≤ 0.195 V Time: ≥ 3 s

Blink code for malfunction indicator light	Fi 15: Failure indicator light flashes 1x long, 5x short
Error level condition	Tilt sensor – input signal too low Voltage: ≤ 0.176 V Time: ≥ 25.5 s Tilt sensor – open / input signal too high Voltage: ≥ 4.57 V Time: ≥ 25.5 s
Blink code for malfunction indicator light	Fi 21: Malfunction indicator light flashes 2x long, 1x short
Error level condition	Battery voltage – input voltage too high Engine control unit power supply: ≥ 15.98 V Time: ≥ 2 s
Blink code for malfunction indicator light	Fi 22: Failure indicator light flashes 2x long, 2x short
Error level condition	Gear position sensor – input signal too low Time: ≥ 0.1 s Gear position sensor – input signal too high Time: ≥ 0.1 s Gear position sensor malfunction
Blink code for malfunction indicator light	Fi 33: Malfunction indicator lamp flashes 3x long, 3x short
Error level condition	Injection valve cylinder 1 – circuit fault Time: ≥ 2.0 s
Blink code for malfunction indicator light	Fi 37: Malfunction indicator light flashes 3x long, 7x short
Error level condition	Ignition coil – circuit fault Time: ≥ 2.0 s
Blink code for malfunction indicator light	Fi 41: Malfunction indicator light flashes 4x long, 1x short
Error level condition	Fuel pump controller – short circuit to ground/open circuit The engine is switched off: ≥ 3 s Fuel pump controller - short circuit to plus The engine is switched off: ≥ 3 s

Blink code for malfunction indicator light	
Error level condition	65: Failure indicator light flashes 6x long, 5x short EEPROM – malfunction Read data and write data are different.
Blink code for malfunction indicator light	
Error level condition	91: Failure indicator light flashes 9x long, 1x short CAN bus communication – faulty
Blink code for malfunction indicator light	
Error level condition	Malfunction indicator lamp flashes continuously THREF – internal malfunction of the engine control unit

22.1 Engine

22.1.1 Technical data - engine

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	249.92 cm ³ (15.2511 in ³)
Stroke	48.5 mm (1.909 in)
Bore	81 mm (3.19 in)
Compression ratio	14.5:1
Control	DOHC, four valves controlled via cam lever, drive via timing chain
Valve diameter, intake	32.5 mm (1.280 in)
Valve diameter, exhaust	27.5 mm (1.083 in)
Valve clearance	
Intake at: 20 °C (68.0 °F)	0.08 mm ... 0.15 mm (0.0031 in ... 0.0059 in)
Exhaust at: 20 °C (68.0 °F)	0.12 mm ... 0.19 mm (0.0047 in ... 0.0075 in)
Crankshaft bearing	2-cylinder roller bearing
Big (bottom) end bearing	Plain bearing
Wrist pin bearing	Bearing bush
Piston	Forged light alloy
Piston rings	1 compression ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication with 2 trochoidal pumps
Primary transmission	24:72
Clutch	Multi-disc wet clutch / hydraulically activated
Transmission	5 speed transmission, claw shifted
Gear ratios	
1st gear	13:32
2nd Gear	16:32
3rd Gear	17:28
4th Gear	19:26
5th Gear	21:25
Alternator	• 14 V • 77 W (0.103 hp)
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment
Spark plug	NGK LMAR9AI-10
Plug gap of spark plug	1.0 mm (0.039 in)

22 Technical specifications

Cooling	Liquid cooling, permanent circulation of coolant by water pump
Starting aid	Starter motor
idle speed	2,250 rpm ... 2,350 rpm (37.50 Hz ... 39.17 Hz)

22.1.2 Capacities - engine

engine oil	
Engine oil (10W/50)  (p. 183) fully synthetic	1.0 l (0.26 liq. gal _{US})
coolant	
Coolant  (p. 184) Antifreeze protection to at least: -25 °C (-13.0 °F)	0.90 l (0.238 liq. gal _{US})

22.2 Chassis

22.2.1 Technical data - chassis

Frame	Central tube frame made of chrome molybdenum steel tubing
Suspension travel: (EU)	
front	305 mm (12.01 in)
rear	293 mm (11.54 in)
Suspension travel: (Factory edition)	
front	300 mm (11.81 in)
rear	293 mm (11.54 in)
Triple clamp offset	22 mm (0.87 in)
Brake system	Disc brakes, floating brake calipers
Brake discs - diameter	
front	260 mm (10.24 in)
rear	220 mm (8.66 in)
Brake disc wear limit	
front	2.5 mm (0.098 in)
rear	3.5 mm (0.138 in)
Final drive	
(EU)	14:52
(Factory edition)	14:51
Chain	5/8 x 1/4"

Rear sprockets available	• 47 teeth • 48 teeth • 49 teeth • 50 teeth • 51 teeth • 52 teeth
Steering head angle	63.9° (1.115 rad)
Wheelbase	1,490 ±10 mm (58.66 ±0.39 in)
Seat Height unloaded	946 mm (37.24 in)
Ground clearance unloaded	336 mm (13.23 in)
Weight without fuel approx.	
(EU)	101.7 kg (224.21 lb)
(Factory edition)	105.4 kg (232.37 lb)
Maximum permissible front axle load	145 kg (319.7 lb)
Maximum permissible rear axle load	190 kg (418.9 lb)
Maximum permissible total weight	335 kg (738.5 lb)

22.2.2 Technical data - tires

Off-road tire pressure	
front	1.0 bar (14.5 psi)
rear	1.0 bar (14.5 psi)
Tire front	Rear tire
80/100 - 21 TL Dunlop GEOMAX MX34F	110/90 - 19 TL Dunlop GEOMAX MX34
The tires specified represent one of the possible series production tires. For alternative manufacturers, if any, contact an authorized manufacturer or qualified tire dealership. If local road approval regulations apply, these and the respective technical specifications must be observed.	

22.2.3 Capacities - vehicle

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95)  (p. 182)	7.2 l (1.90 liq. gal _{US})

22.3 Electrics

22.3.1 Electrics

12-V battery	HJTZ5S-FP-C	Lithium-ion battery Battery voltage: 12 V Nominal capacity: 2.0 Ah Maintenance-free
--------------	-------------	--

22.3.2 Fuses

Fuse	58011109105	5 A
Fuse	58011109110	10 A

22.3.3 Lamps

Dashboard illumination and indicator lights	LED
---	-----

22.4 Fork

22.4.1 Technical data - fork (EU)

Fork part number	A360C105Y406000
Fork	WP XACT AER
Compression damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks
Rebound damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks
Air pressure	
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	10.1 bar (146.5 psi)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	10.3 bar (149.4 psi)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	10.5 bar (152.3 psi)
Fork length	940 mm (37.01 in)

22.4.2 Capacities - fork (EU)

Oil capacity, right outer assembly	
Fork oil (48601166S1) (SAE 4)  (p. 183)	240 ml (8.12 fl. oz _{US})

Oil capacity, left outer assembly	
Fork oil (48601166S1) (SAE 4)  (p. 183)	240 ml (8.12 fl. oz _{US})
Oil capacity, right cartridge	
Fork oil (48601166S1) (SAE 4)  (p. 183)	370 ml (12.51 fl. oz _{US})
Grease capacity, left cartridge	
Special grease (00062010053)  (p. 184)	5 g (0.18 oz)

22.4.3 Technical data - fork (Factory edition)

Fork part number	A360C109W403200
Fork	WP XPLOR PRO 7548
Compression damping	
Comfort	15 clicks
Standard	12 clicks
Sport	9 clicks
Rebound damping	
Comfort	23 clicks
Standard	20 clicks
Sport	17 clicks
Fork length	940 mm (37.01 in)
Spring rate	
Soft option 2	4.6 N/mm (26.27 lb _f /in)
Soft option 1	4.8 N/mm (27.41 lb _f /in)
Medium (standard)	5.0 N/mm (28.55 lb _f /in)
Hard option 1	5.2 N/mm (29.69 lb _f /in)
Hard option 2	5.4 N/mm (30.83 lb _f /in)
Spring length with preload spacer(s)	488 mm (19.21 in)

22.4.4 Capacities - fork (Factory edition)

Oil capacity, outer assembly	
Fork oil (48601166S1) (SAE 4)  (p. 183)	445 ml (15.05 fl. oz _{US})
Oil capacity, cartridge	
Fork oil (48601166S1) (SAE 4)  (p. 183)	175 ml (5.92 fl. oz _{US})

22.5 Shock absorber

22.5.1 Technical data - shock absorber (EU)

Shock absorber part number	A360C405Y408000
Shock absorber	WP XACT LDS
Low-speed compression damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
High-speed compression damping	
Comfort	2 turns (720°)
Standard	1.5 turns (540°)
Sport	1 turn (360°)
Rebound damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
Preload	8 mm (0.31 in)
Spring rate	
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	39 N/mm (222.7 lb _f /in)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	42 N/mm (239.8 lb _f /in)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	45 N/mm (257.0 lb _f /in)
Spring length	240 mm (9.45 in)
Gas assisted	10 bar (145 psi)
Static sag	35 mm (1.38 in)
Rider sag	105 mm (4.13 in)
Installation position	456.3 mm (17.965 in)

22.5.2 Capacities - shock absorber (EU)

Oil capacity, shock absorber	
Shock absorber oil (50180751S1) (SAE 2.5)  (p. 184)	Fill to the maximum mark

22.5.3 Technical data - shock absorber (Factory edition)

Shock absorber part number	A360C409W411200
Shock absorber	XACT PRO 8950
Low-speed compression damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
High-speed compression damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
High-speed rebound damping	
Comfort	10 clicks
Standard	10 clicks
Sport	10 clicks
Low-speed rebound damping	
Comfort	22 clicks
Standard	20 clicks
Sport	18 clicks
Preload	8 mm (0.31 in)
Spring rate	
Weight of rider: 55 kg ... 65 kg (121.3 lb ... 143.3 lb)	39 N/mm (222.7 lb _f /in)
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	42 N/mm (239.8 lb _f /in)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	45 N/mm (257.0 lb _f /in)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	48 N/mm (274.1 lb _f /in)
Weight of rider: 95 kg ... 105 kg (209.4 lb ... 231.5 lb)	51 N/mm (291.2 lb _f /in)
Spring length	240 mm (9.45 in)
Gas assisted	8 bar (116 psi)
Static sag	38 mm (1.50 in)
Rider sag	105 mm (4.13 in)
Installation position	456.3 mm (17.965 in)

22.5.4 Capacities - shock absorber (Factory edition)

Shock absorber oil	
Shock absorber oil (50180751S1) (SAE 2.5)  (p. 184)	Fill to the maximum mark

22.6 Tightening torque

22.6.1 Engine tightening torques

Oil nozzle for main bearing lubrication	M4	2 Nm (1.5 ft·lb _f) Loctite® 243
Oil nozzle for clutch lubrication	M4	2 Nm (1.5 ft·lb _f) Loctite® 243
Screw, oil nozzle bent for piston cooling	M4	2.5 Nm (1.84 ft·lb _f) Loctite® 243
Jet, crank chamber ventilation	M4	2 Nm (1.5 ft·lb _f) Loctite® 243
Hose clip, intake flange	M4	3 Nm (2.2 ft·lb _f)
Detent arm screw	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, gear position sensor	M5	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, clutch spring retainer	M5	6 Nm (4.4 ft·lb _f)
Screw, oil pump cover	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Oil pump idler gear fuse screw	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Oil nozzle for piston cooling	M5	2 Nm (1.5 ft·lb _f) Loctite® 243
Screw, bearing retainer	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Stator screw	M5	6 Nm (4.4 ft·lb _f) Loctite® 243

Alternator cover grub screw	M5	2 Nm (1.5 ft·lb _f) Loctite® 243
Screw, crankshaft position sensor	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Shift star screw	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Exhaust flange screw	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, guide rail	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, timing chain failure protection	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, starter motor	M6	10 Nm (7.4 ft·lb _f)
Screw, outer clutch cover	M6	10 Nm (7.4 ft·lb _f)
Screw, inner clutch cover	M6	10 Nm (7.4 ft·lb _f)
Screw, clutch slave cylinder	M6	10 Nm (7.4 ft·lb _f)
Screw, engine case	M6	10 Nm (7.4 ft·lb _f)
Screw, oil filter cover	M6	10 Nm (7.4 ft·lb _f)
Screw, shift lever	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, starter motor - intermediate gear	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, valve cover	M6	8 Nm (5.9 ft·lb _f)
Stud, cylinder head	M6	6 Nm (4.4 ft·lb _f) Loctite® 243
Nut, cylinder head	M6	10 Nm (7.4 ft·lb _f)
Screw, water pump cover	M6	10 Nm (7.4 ft·lb _f)
Nut, water pump impeller	M6	6 Nm (4.4 ft·lb _f) Loctite® 243

22 Technical specifications

Screw, ignition cover		M6	10 Nm (7.4 ft·lb _f)
Screw, camshaft bearing bridge M7×1 Engine oil	1.		5 Nm (3.7 ft·lb _f)
	2.		14 Nm (10.3 ft·lb _f)
Slide rail screw		M8	15 Nm (11.1 ft·lb _f) Loctite® 243
Crankshaft clamp screw plug		M8	10 Nm (7.4 ft·lb _f)
Crankshaft fixing screw		M8	hand-tight
Screw plug, cam lever shaft		M10×1	10 Nm (7.4 ft·lb _f)
Front sprocket screw		M10	60 Nm (44.3 ft·lb _f) Loctite® 243
Chain tension adjuster finger follower shaft plug		M10×1	8 Nm (5.9 ft·lb _f)
Screw, rotor		M10×1	70 Nm (51.6 ft·lb _f) Engine oil
Coolant temperature sensor		M10×1.25	12 Nm (8.9 ft·lb _f)
Oil channel screw plug		M10×1	15 Nm (11.1 ft·lb _f) Loctite® 243
Stud, cylinder head		M10×1.25	20 Nm (14.8 ft·lb _f) Loctite® 243
Nut, cylinder head M10×1.25 Engine oil	1.		10 Nm (7.4 ft·lb _f)
	2.		30 Nm (22.1 ft·lb _f)
	3.		180° (3.14 rad)
Spark plug		M10×1	12 Nm (8.9 ft·lb _f)
Oil drain plug with magnet		M12×1.5	20 Nm (14.8 ft·lb _f)
Screw plug, oil pressure control valve		M12×1.5	20 Nm (14.8 ft·lb _f)
Screw plug, crankcase		M14×1.5	15 Nm (11.1 ft·lb _f)
Nut, inner clutch hub		M18×1.5	100 Nm (73.8 ft·lb _f)

Nut, primary gear	M18LH×1.5	120 Nm (88.5 ft·lb _f) Loctite® 243
Plug, oil screen	M20×1.5	15 Nm (11.1 ft·lb _f)
Screw plug, timing chain tensioner	M24×1.5	40 Nm (29.5 ft·lb _f)
Oil plug	M24×3	hand-tight
Screw plug, alternator cover	M24×1.5	18 Nm (13.3 ft·lb _f) Loctite® 243
Fixing nut for main bearing inner ring	M27×1	60 Nm (44.3 ft·lb _f) Loctite® 243

22.6.2 Chassis tightening torques

Screw, cooling system hose clamp		2.4 Nm (1.77 ft·lb _f)
Screw, hose clamp, throttle body	M4	5 Nm (3.7 ft·lb _f)
Screw, fixed grip	M4	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, hose clip for cooling system	M4	2.4 Nm (1.77 ft·lb _f)
Air boot for throttle body	M4	2.8 Nm (2.07 ft·lb _f)
Screw, throttle body cover	M5	2.6 Nm (1.92 ft·lb _f)
Remaining nuts on chassis	M5	5 Nm (3.7 ft·lb _f)
Remaining screws on chassis	M5	5 Nm (3.7 ft·lb _f)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 ft·lb _f)
Screw, battery terminal	M5	2.5 Nm (1.84 ft·lb _f)
Screw, frame protector	M5	3 Nm (2.2 ft·lb _f)
Nut, throttle cable on throttle body	M6	3 Nm (2.2 ft·lb _f)
Screw, fuel tank spoiler on radiator	M6	6 Nm (4.4 ft·lb _f)
Screw, starter cable to starter relay	M6	6 Nm (4.4 ft·lb _f)

Screw, chain guide on swingarm, rear	M6×16	10 Nm (7.4 ft·lb _f)
Screw, brake lever	M6	5 Nm (3.7 ft·lb _f)
Nut, cable on starter motor	M6	4 Nm (3.0 ft·lb _f)
Remaining nuts on chassis	M6	10 Nm (7.4 ft·lb _f)
Remaining screws on chassis	M6	10 Nm (7.4 ft·lb _f)
Screw, service hour counter	M6	5 Nm (3.7 ft·lb _f)
Screw, rear brake disc	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, front brake disc	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, push rod ball joint on the rear brake cylinder	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, throttle twist grip	M6	5 Nm (3.7 ft·lb _f)
Screw, chain slider guard	M6	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, fuel tank spoiler on radiator	M6	6 Nm (4.4 ft·lb _f)
Screw, chain guide on swingarm, front	M6×45	10 Nm (7.4 ft·lb _f)
Screw, ground wire on frame	M6	10 Nm (7.4 ft·lb _f)
Screw, seat installation	M6	8 Nm (5.9 ft·lb _f)
Brake line guide screw on swingarm	M6	4.5 Nm (3.32 ft·lb _f)
Fender screw	M6	12 Nm (8.9 ft·lb _f)
Screw, battery holding bracket	M6	6 Nm (4.4 ft·lb _f)
Screw, chain guide on swingarm, rear	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, chain guide on swingarm, front	M6	10 Nm (7.4 ft·lb _f)
Screw, seat installation	M6	8 Nm (5.9 ft·lb _f)

Screw, clutch lever	M6	5 Nm (3.7 ft·lb _i)
Screw, front sprocket cover	M8	15 Nm (11.1 ft·lb _i)
Brake pedal stop nut	M8	20 Nm (14.8 ft·lb _i)
Nut, rear sprocket screw	M8	35 Nm (25.8 ft·lb _i) Loctite® 2701
Nut, rim lock	M8	12 Nm (8.9 ft·lb _i)
Remaining nuts on chassis	M8	25 Nm (18.4 ft·lb _i)
Remaining screws on chassis	M8	25 Nm (18.4 ft·lb _i)
Screw, front brake caliper	M8	25 Nm (18.4 ft·lb _i) Loctite® 243
Screw, top triple clamp	M8	17 Nm (12.5 ft·lb _i)
Screw, bottom triple clamp	M8	12 Nm (8.9 ft·lb _i)
Screw, fork shoe	M8	15 Nm (11.1 ft·lb _i)
Screw, upper steering stem	M8	20 Nm (14.8 ft·lb _i) Loctite® 243
Handlebar clamp screw	M8	20 Nm (14.8 ft·lb _i)
Screw, engine brace on engine	M8×20	25 Nm (18.4 ft·lb _i) Loctite® 243
Subframe screw	M8	35 Nm (25.8 ft·lb _i) Loctite® 243
Screw, chain slider	M8	15 Nm (11.1 ft·lb _i)
Screw, manifold on engine brace	M8	15 Nm (11.1 ft·lb _i)
Screw, engine brace on frame	M8×25	15 Nm (11.1 ft·lb _i) Loctite® 2701
Screw, subframe, bottom	M8	30 Nm (22.1 ft·lb _i) Loctite® 2701
Engine bracket screw	M10	60 Nm (44.3 ft·lb _i)

Remaining nuts on chassis	M10	45 Nm (33.2 ft·lb _f)
Remaining screws on chassis	M10	45 Nm (33.2 ft·lb _f)
Top shock absorber screw	M10	60 Nm (44.3 ft·lb _f) Loctite® 2701
Screw, handlebar mount	M10	40 Nm (29.5 ft·lb _f) Loctite® 243
Nut, frame on linkage lever	M14×1.5	60 Nm (44.3 ft·lb _f)
Nut, linkage lever on angle lever	M14×1.5	60 Nm (44.3 ft·lb _f)
Nut, angle lever to link fork	M14×1.5	60 Nm (44.3 ft·lb _f)
Bottom shock absorber screw	M14	60 Nm (44.3 ft·lb _f) Loctite® 2701
Nut, swingarm pivot	M16×1.5	100 Nm (73.8 ft·lb _f)
Screw, wheel spindle, front	M20×1.5	35 Nm (25.8 ft·lb _f)
Screw, top steering head	M20×1.5	12 Nm (8.9 ft·lb _f)
Nut, wheel spindle, rear	M22×1.5	80 Nm (59.0 ft·lb _f)
Screw-in nozzle, cooling system	M24×1.5	7.5 Nm (5.53 ft·lb _f)
Spoke nipple, rear wheel	M4,5	6 Nm (4.4 ft·lb _f)
Spoke nipple, front wheel	M4,5	6 Nm (4.4 ft·lb _f)
Combination switch screw	EJOT PT® – K50×18	2 Nm (1.5 ft·lb _f)
Screw, intake air temperature sensor	EJOT DELTA PT® – K50×18	0.7 Nm (0.52 ft·lb _f)
Fitting, stop button	EJOT PT® – K50×18	2 Nm (1.5 ft·lb _f)
Fitting, start button	EJOT PT® – K50×18	2 Nm (1.5 ft·lb _f)
Screw, air filter box cover	EJOT PT® – K60×20 – Z	5 Nm (3.7 ft·lb _f)
Screw, seat installation	EJOT EJOFORM® – K60×23/18	2.5 Nm (1.84 ft·lb _f)
Screw, fuel pump on fuel tank	EJOT PT® – K60×30 – Z	2.5 Nm (1.84 ft·lb _f)

Screw, air filter box on frame	EJOT PT® – K60×20 – AL 5 Nm (3.7 ft·lb _f)
--------------------------------	--

23 Declarations of conformity CUO

23.1 Country-specific declarations of conformity - Connectivity Unit Offroad (Factory edition)



W00603-10

24.1 FCC statements - Connectivity Unit Offroad (Factory edition)

24.1.1 Declaration regarding modifications

Alterations and modifications not expressly approved by the relevant authority may result in the user being prohibited from operating the equipment.

24.1.2 Declaration regarding interference

This device complies with article 15 of the FCC regulations.

Operation is subject to the following two conditions:

1. This device must not cause interference.
2. This device must be able to absorb any interference, including interference that potentially causes undesirable operation of the device.

25.1 Declaration of conformity

DECLARATION OF CONFORMITY

Kind of equipment: Connectivity Unit for KTM vehicles
Type-designation: Connectivity Unit Offroad
Type number: A46014086010
A46014087020

**Manufacturer or
Authorised representative:** KTM AG
Address: Stallhofnerstrasse 3
5230 Mattighofen, Austria

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant statutory requirements:

- **Directive 2014/53/EU**

The product is in conformity with the following standards:

- *Health and safety (Article 3. (1)(a)):*

EN 62368-1:2014 / A11:2017
EN 62311:2009-09

- *Radio (Article 3. (2)):*

EN 300 328 V2.2.2:2019
EN 303 413 V1.2.1:2021

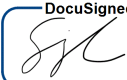
- *EMC (Article 3. (1)(b)):*

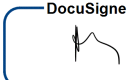
EN 301 489-1 V2.2.3:2019
EN 301 489-17 V3.2.4:2020
EN 301 489-19 V2.2.1:2022
EN 55032:2015/A11:2020
ECE R10.06

Signed for and on behalf of: KTM AG

Mattighofen, Austria
15.03.2023

place and date of issue

DocuSigned by:

2114E1C78AF442F...
Viktor Sigl
CFO
KTM AG

DocuSigned by:

F0A4FB06188149A...
Philipp Habsburg
CTO
KTM AG

25.2 Declaration of conformity (UK)

UK DECLARATION OF CONFORMITY

Kind of equipment: Connectivity Unit for KTM vehicles
Type-designation: Connectivity Unit Offroad
Type number: A46014086010
A46014087020

**Manufacturer or
Authorised representative:** KTM AG
Address: Stallhofnerstrasse 3
5230 Mattighofen, Austria

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant statutory requirements:

- **Radio Equipment Regulations 2017 (S.I. 2017/1206)**

The product is in conformity with the following standards:

- *Health and safety (Regulation 6.(1)(a)):*

EN 62368-1:2014 / A11:2017
EN 62311:2009-09

- *Radio (Regulation 6. (2)):*

EN 300 328 V2.2.2:2019-07
EN 303 413 V1.2.1:2021/04

- *EMC (Regulation 6.(1)(b)):*

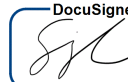
EN 301 489-1 V2.2.3:2019
EN 301 489-17 V3.2.4:2020
EN 301 489-19 V2.2.1:2022
EN 55032:2015/A11:2020
ECE R10.06

Signed for and on behalf of: KTM AG

Mattighofen, Austria
15.03.2023

place and date of issue

DocuSigned by:



2114E1678AF442F...

Viktor Sigl
CFO
KTM AG

DocuSigned by:



F9A4FB06188149A...

Philipp Habsburg
CTO
KTM AG

A Technical terms

	Launch control	Vehicles electronics functions for achieving the best possible acceleration from a standing position
OBD	On-board diagnosis	Vehicle system, which monitors the specified parameters of the vehicle electronics
	Quickshifter	Function of the engine electronics for shifting up without clutch actuation

B Fuels

Super unleaded

Standards

- ROZ 95 → DIN EN 228

Fuel additive

Recommended supplier

MOTOREX®

- FUEL STABILIZER

C Operating material

Off-road chain spray

Recommended supplier

MOTOREX®

- CHAINLUBE OFF ROAD

Fork oil

Order details

- 48601166S1

Standards

- SAE 4 → SAE

Universal oil spray

Recommended supplier

MOTOREX®

- JOKER 440 SYNTHETIC

Long-life grease

Recommended supplier

MOTOREX®

- Bike Grease 2000

Engine oil

Recommended supplier

MOTOREX®

- CROSS POWER 4T

Standards

→ JASO T903 MA2

- 10W/50 → SAE

Properties

- fully synthetic

High viscosity grease

Recommended supplier

SKF®

- LGHB 2

Silicone spray

Recommended supplier

MOTOREX®

- SILICONE SPRAY

Special grease

Order details

- 00062010053

Recommended supplier

Klüber Lubrication®

- Klüberfood NH1 34-401

Shock absorber oil

Order details

- 50180751S1

Standards

- SAE 2.5 → SAE

Oil for foam air filter

Recommended supplier

MOTOREX®

- RACING BIO AIR FILTER OIL

Brake fluid DOT 4 / DOT 5.1

Recommended supplier

Castrol

- REACT PERFORMANCE DOT 4

MOTOREX®

- BRAKE FLUID DOT 5.1

Standards

→ DOT

Coolant

Recommended supplier

MOTOREX®

- COOLANT M3.0

Properties

-
- Antifreeze protection to at least -25 °C
(-13.0 °F)
-

D Electrics

12-V battery (HJTZ5S-FP-C)

Product code	
• HJTZ5S-FP-C	
Properties	
• Lithium-ion battery	
• Battery voltage	12 V
• Nominal capacity	2.0 Ah
• Maintenance-free	

Dashboard illumination and indicator lights (LED)

Product code	
• LED	

Fuse (58011109110)

Product code	
• 58011109110	
Properties	
• 10 A	

Fuse (58011109105)

Product code	
• 58011109105	
Properties	
• 5 A	

E Cleaning agents**Chain cleaner**

Recommended supplier

MOTOREX®

- CHAIN CLEAN

Preserving materials

Recommended supplier

MOTOREX®

- MOTO PROTECT

Air filter cleaning agent

Recommended supplier

MOTOREX®

- RACING BIO AIR FILTER CLEANER

Cleaning agents for plastics, glass, lacquers, metals, windshields and visors

Recommended supplier

MOTOREX®

- QUICK CLEANER

Environmentally neutral universal cleaning agent

Recommended supplier

MOTOREX®

- MOTO CLEAN UNIVERSAL

F Icons**F.1 Symbol colors****F.1.1 Yellow and orange symbols**

Yellow and orange symbols indicate a malfunction status that requires prompt intervention. Active driving aids are also represented by yellow or orange symbols.

	Failure indicator lamp lights up or flashes red
	TC indicator lamp lights up orange

F.1.2 Green and blue symbols

Green and blue symbols convey information.

	Indicator light B lights up green – ADVANCED mapping is activated.
	QS indicator lamp lights up blue

1**12 V battery**

charging	127
installation	126
removing	125

A**Accessories 14****Air filter**

cleaning	85
installing	86
removing	84

Air filter box

cleaning	85
--------------------	----

Air filter box cover

installing	83
removing	82
securing	86

Auxiliary substances 14**B****Brake discs**

checking	105
--------------------	-----

Brake fluid

adding front brake	107
adding to rear brake	113

Brake fluid level

checking on front brake	106
checking on rear brake	112

Brake lining retainers

checking on front brake	108
checking on rear brake	114

Brake pad

checking on front brake	108
-----------------------------------	-----

Brake pads

changing on the rear brake	114
checking on rear brake	114
of the front brake, changing	109

Brake pedal

adjusting the basic position	111
checking the free travel	111

C**Chain**

checking	97
cleaning	95

Chain guide

checking	97
--------------------	----

Chain tension

adjusting	96
checking	96

Characteristic map of the throttle response

adjusting	139
---------------------	-----

Checking basic chassis setting with

rider's weight	41
--------------------------	----

Clutch

changing fluid	103
checking/correcting fluid level	102

Clutch lever

adjusting the basic position	102
--	-----

Compression damping

adjusting the fork	52
------------------------------	----

Connectivity Unit 131**Coolant**

antifreeze and coolant level, checking	133
draining	135
level, checking	134
refilling	135

Customer service 14**D****Declarations of conformity**

country-specific (CUO)	174
----------------------------------	-----

Defined use 12**Difficult operating conditions 27**

dry sand	27
high temperatures	29
low temperature	29
muddy surfaces	28
slow speed	29
snow	29
wet sand	28
wet surfaces	28

E**Engine**

running in	26
----------------------	----

Engine number 17**Engine oil**

adding	148
changing	146

Engine oil level

checking	145
--------------------	-----

Environment 12

F		
Factory Start		
activating	32	
Figures	14	
Fork legs		
adjusting the air pressure	51	
adjusting the rebound damping	53	
bleeding	61	
checking basic setting	51	
cleaning the dust boots	61	
compression damping, adjusting	52	
installing	67	
removing	65	
Fork protector		
installation	63	
removing	62	
Frame		
checking	100	
Frame label	17	
Frame protector		
installation	65	
removing	65	
Front fender		
installation	78	
removing	77	
Front sprocket		
checking	97	
Front wheel		
installing	118	
removing	117	
Frost protection		
checking	133	
Fuel screen		
changing	144	
Fuel tank		
installation	93	
removing	91	
Fuel tank cap		
closing	22	
opening	21	
Fuse		
changing the main fuse	129	
of the fuel pump, changing	130	
G		
Gear shift lever		
adjusting the basic position	143	
		checking the basic position 143
H		
Handbrake lever		
adjusting the basic position	105	
checking the free travel	105	
Handlebar position		
adjusting	55	
High-speed compression damping		
adjusting the shock absorber	43	
High-speed rebound damping		
adjusting the shock absorber	45	
I		
Idle speed		
adjusting	141	
Implied warranty	14	
Improper use	13	
Intended use	12	
L		
Launch control		
activating	31	
Lower triple clamp		
installation	70	
removing	68	
Low-speed compression damping		
adjusting the shock absorber	42	
Low-speed rebound damping		
adjusting the shock absorber	45	
M		
Main fuse		
changing	129	
Manufacturer's warranty	14	
Mapping		
changing	141	
Motorcycle		
cleaning	150	
raising with lift stand	60	
removing from lift stand	60	
Muffler		
changing damping material	90	
installation	89	
removing	88	
N		
Number plate		
installation	77	

removing	76	adjusting the rebound damping	44
O		adjusting the spring preload	48
Oil filter		checking static sag	47
changing	146	checking the rider sag	47
Oil screen		high-speed rebound damping, adjusting	45
cleaning	146	installation	80
Owner's manual	12	low-speed rebound damping, adjusting	45
P		removing	78
Preparing for use		Side fairing right	
after storage	153	installation	88
checks and maintenance measures when		removing	87
preparing for use	30	Skid plate	
notes on preparing for first use	25	installation	64
Protective clothing	11	removing	64
Q		Spare parts	14
Quickshifter		Spoke tension	
activating	34	checking	124
programming	102	Starting	30
R		Steering head bearing	
Rear sprocket		lubricating	76
checking	97	Steering head bearing play	
Rear wheel		adjusting	75
installation	121	checking	74
removing	120	Storage	152
Rebound damping		Swingarm	
adjusting the fork	53	checking	100
adjusting the shock absorber	44	T	
Refueling		Tampering	10
fuel	37	Throttle cable play	
Resources	14	adjusting	138
Rider sag		checking	138
adjusting	49	Throttle cable routing	
Rubber grips		checking	100
checking	101	Throttle valve position	
S		programming	142
Safe use	11	Tire condition	
Seat		checking	123
mounting	82	Tire pressure	
removing	81	checking	123
Service	14	Traction control	
Shock absorber		activating	32
adjusting the high-speed compression		Transportation	36
damping	43	W	
adjusting the low-speed compression damp-		Work rules	11
ing	42		



3402884en

16/12/2025

