

OWNER'S MANUAL 2021

MC 125 Art. no. 3215008en



GASGAS

DEAR GASGAS CUSTOMER

Congratulations on your decision to purchase a GASGAS motorcycle. You are now the owner of a state-of-the-art sports vehicle which, with appropriate care, will bring you pleasure for a long time to come.

We wish you good and safe riding at all times!

Enter the serial numbers of your vehicle below.

Vehicle identification number (🕮 p. 12)	Dealer's stamp
Engine number (🕮 p. 12)	

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.

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ISO 9001(12 100 6061)

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GASGAS Motorcycles GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models:

MC 125 (F0101U0)



TABLE OF CONTENTS

1	MEANS	S OF REPRESENTATION	5		7.5	Preparing the vehicle for rides on wet sand	21
	1.1	Symbols used	5		7.6	Preparing the vehicle for rides on wet	. 21
	1.2	Formats used	5		7.0	and muddy circuits	. 22
2	SAFETY	/ ADVICE	6		7.7	Preparing vehicle for high temperatures or slow riding	
	2.1	Use definition – intended use	6		7.8	Preparing the vehicle for low	. 23
	2.2	Misuse	6		7.0	temperatures or snow	. 24
	2.3	Safety advice	6				
	2.4	Degrees of risk and symbols		8	RIDING	INSTRUCTIONS	. 25
	2.5	Tampering warning			8.1	Checks and maintenance measures	
	2.6	Safe operation			0.1	when preparing for use	. 25
	2.7	Protective clothing			8.2	Starting	
	2.8	Work rules			8.3	Starting off	
	2.9	Environment			8.4	Shifting, riding	
	2.10	Owner's Manual			8.5	Applying the brakes	
					8.6	Stopping, parking	
3	IMPOR	TANT NOTES	9		8.7	Transporting	
	3.1	Manufacturer warranty, implied			8.8	Refueling	
	0.1	warranty	9			_	
	3.2	Fuel, auxiliary substances		9	SERVICE	SCHEDULE	. 30
	3.3	Spare parts, accessories			9.1	Additional information	20
	3.4	Service			9.2	Required work	
	3.5	Figures			9.2	Recommended work	
	3.6	Customer service			9.5	Recommended work	. 51
				10	TUNING	THE CHASSIS	. 32
4	VIEW (OF VEHICLE	10		10.1	Checking the basic chassis setting with	
	4.1	View of vehicle, front left (example)	10		10.1	the rider's weight	32
	4.2	View of vehicle, rear right (example)			10.2	Air suspension XACT 5448	
					10.3	Compression damping of the shock	. 52
5	SERIAL	NUMBERS	12		10.5	absorber	33
	5.1	Vehicle identification number	12		10.4	Adjusting the low-speed compression	. 50
	5.2	Type label			10.4	damping of the shock absorber	33
	5.3	Engine number			10.5	Adjusting the high-speed compression	
	5.4	Fork part number			10.5	damping of the shock absorber	. 33
	5.5	Shock absorber article number			10.6	Adjusting the rebound damping of the	
6		OLS				shock absorber	. 34
U	CONTI				10.7	Measuring the rear wheel dimension	
	6.1	Clutch lever	14			unloaded	. 34
	6.2	Hand brake lever	14		10.8	Checking the static sag of the shock	2.5
	6.3	Throttle grip	14			absorber	. 35
	6.4	Stop button	14		10.9	Checking the riding sag of the shock	
	6.5	Opening the fuel tank filler cap	15		40.40	absorber	. 36
	6.6	Closing the fuel tank filler cap	15		10.10	Adjusting the spring preload of the	2.0
	6.7	Fuel tap	16		40.44	shock absorber	
	6.8	Choke	16		10.11	Adjusting the riding sag	
	6.9	Shift lever	16		10.12	Checking the basic setting of the fork	
	6.10	Kick starter lever	17		10.13	Adjusting the fork air pressure	. 38
	6.11	Foot brake lever	17		10.14	Adjusting the compression damping of	
	6.12	Plug-in stand	17			the fork	. 39
7	PRFPA	RING FOR USE			10.15	Adjusting the rebound damping of the fork	40
•					10.16	Handlebar position	
	7.1	Advice on preparing for first use			10.17	Adjusting the handlebar position 4	
	7.2	Running in the engine	19				
	7.3	Preparing the vehicle for difficult		11	SERVICE	WORK ON THE CHASSIS	. 42
		operating conditions	19		11.1	Raising the motorcycle with a lift stand	. 42
	7.4	Preparing the vehicle for rides on dry			11.2	Removing the motorcycle from the lift	
		sand	20			stand	. 42

TABLE OF CONTENTS

11.3	Bleeding the fork legs	. 42		12.7	Changing the brake linings of the front	
11.4	Cleaning the dust boots of the fork legs				brake 🔦	74
11.5	Removing the fork legs 🔌			12.8	Checking the free travel of foot brake	
11.6	Installing the fork legs 🔦	. 44			lever	76
11.7	Removing the fork protector	. 45		12.9	Adjusting the basic position of the foot	
11.8	Installing the fork protector	. 45			brake lever 🛂	
11.9	Removing the lower triple clamp 4	. 45		12.10	Checking the rear brake fluid level	
11.10	Installing the lower triple clamp 4	. 46		12.11	Adding rear brake fluid 🔏	78
11.11	Checking steering head bearing play	. 48		12.12	Checking the brake linings of the rear	
11.12	Adjusting steering head bearing play 4	. 48			brake	
11.13	Lubricating the steering head bearing 4	. 49		12.13	Changing the rear brake linings 🔦	79
11.14	Removing the start number plate		13	WHEEL 9	S, TIRES	87
11.15	Installing the start number plate	. 49	13	VVIIILL		
11.16	Removing front fender			13.1	Removing the front wheel 🔦	
11.17	Installing front fender			13.2	Installing the front wheel 🔦	
11.18	Removing the shock absorber 4			13.3	Removing the rear wheel 🔦	
11.19	Installing the shock absorber 4			13.4	Installing the rear wheel 🔌	84
11.20	Removing the seat			13.5	Checking the tire condition	86
11.21	Mounting the seat			13.6	Checking tire pressure	86
11.22	Removing the air filter box cover			13.7	Checking spoke tension	87
11.23	Installing the air filter box cover		1.4	COOLIN	IC CVCTENA	0.0
11.24	Removing the air filter		14	COOLIN	IG SYSTEM	88
11.25	Cleaning the air filter and air filter	. 50		14.1	Cooling system	88
11.23	box 4	56		14.2	Radiator cover	
11.26	Installing the air filter			14.3	Installing the radiator cover	
11.27	Preparing air filter box cover for	. 57		14.4	Removing the radiator cover	
11.27	securing	57		14.5	Checking the antifreeze and coolant	
11.28	Removing the main silencer				level	89
11.29	Installing the main silencer			14.6	Checking the coolant level	
11.30	Changing the glass fiber yarn filling in	. 50		14.7	Draining the coolant 🔏	
11.50	the main silencer	50		14.8	Refilling with coolant 4	
11.31	Removing the fuel tank			14.9	Changing the coolant 4	
11.31	Installing the fuel tank					
11.32			15	TUNING	THE ENGINE	95
11.34	Checking the chain for dirt			15.1	Checking the play in the throttle cable	95
				15.2	Adjusting throttle cable play	
11.35	Checking the chain tension			15.3	Carburetor tuning	
11.36	Adjusting the chain tension	. 63		15.4	Carburetor turing	
11.37	Checking the chain, rear sprocket,	C 4		15.5	Carburetor - adjusting the idle speed	
44.00	engine sprocket, and chain guide			15.6		
11.38	Checking the frame			15.6	Plug-in connector of ignition timing	
11.39	Checking the link fork			1 . 7	map adjustment	
11.40	Checking throttle cable routing			15.7	Changing the ignition timing map	100
11.41	Checking the rubber grip	. 67		15.8	Checking the basic position of the shift	100
11.42	Adjusting the basic position of the clutch			15.0	lever	100
	lever	. 68		15.9	Adjusting the basic position of the shift	100
11.43	Checking/correcting the fluid level of the				lever 4	100
	hydraulic clutch		16	SERVICE	E WORK ON THE ENGINE	102
11.44	Changing the hydraulic clutch fluid 🔦	. 69		464		
BRAKE	SYSTEM	71		16.1	Emptying the carburetor float	400
DIV IIL		. / _		460	chamber 4	
12.1	Checking the free travel of the hand			16.2	Checking the gear oil level	
	brake lever	. 71		16.3	Changing the gear oil	
12.2	Adjusting the basic position of the hand			16.4	Adding the gear oil 4	104
	brake lever		17	CLEANII	NG, CARE	106
12.3	Checking the brake discs					
12.4	Checking the front brake fluid level	. 72		17.1	Cleaning the motorcycle	106
12.5	Adding front brake fluid 🔦	. 72				
12.6	Checking the front brake linings	. 74				

TABLE OF CONTENTS

18	STORAG	ßE	108
	18.1 18.2	Storage Preparing for use after storage	108 109
19	TROUBL	ESHOOTING	110
20	TECHNI	CAL DATA	112
	20.1 20.2 20.3 20.3.1 20.3.2 20.4 20.4.1 20.4.2 20.4.3 20.5 20.6	Engine	112 114 114 115 115 115 115 115 116 116
	20.8 20.9	Shock absorberChassis tightening torques	117 117
21	SUBSTA	NCES	120
22	AUXILIA	RY SUBSTANCES	122
23	STANDA	ARDS	124
24	LIST OF	ABBREVIATIONS	125
INIDE	· v		126

The meaning of specific symbols is described below.



Indicates an expected reaction (e.g., of a work step or a function).



Indicates an unexpected reaction (e.g., of a work step or a function).



All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have this work performed by an authorized GASGAS Motorcycles workshop. Your motorcycle will be cared for there to the highest degree by specially trained experts using the special tools required.



Indicates a page reference (more information is provided on the specified page).



Indicates information with more details or tips.



Indicates the result of a testing step.



Indicates a voltage measurement.



Indicates a current measurement.



Indicates the end of an activity, including potential reworking.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name Indicates a proprietary name.

Name Indicates a protected name.

Brand™ Indicates a brand available on the open market.

Underlined terms Refer to technical details of the vehicle or indicate technical terms, which are

explained in the glossary.

2.1 Use definition – intended use

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



Info

Only operate this vehicle in closed-off areas remote from public road traffic.

2.2 Misuse

The vehicle must only be used as intended.

Dangers can arise for people, property and the environment through use not as intended.

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

Misuse also includes the use of operating and auxiliary fluids which do not meet the required specification for the respective use.

2.3 Safety advice

A number of safety instructions need to be followed to operate the product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 Degrees of risk and symbols



Danger

Identifies a danger that will immediately and invariably lead to fatal or serious permanent injury if the appropriate measures are not taken.



Warning

Identifies a danger that is likely to lead to fatal or serious injury if the appropriate measures are not taken.



Caution

Identifies a danger that may lead to minor injuries if the appropriate measures are not taken.

Note

Identifies a danger that will lead to considerable machine and material damage if the appropriate measures are not taken.



Note

Indicates a danger that will lead to environmental damage if the appropriate measures are not taken.

Tampering with the noise control system is prohibited. Federal law prohibits the following acts or the causing thereof:

- 1 The removal or rendering inoperative by any person other than for purposes of servicing, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, or
- 2 the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

- 1 Removal or puncturing of the main silencers, baffles, header pipes or any other components which conduct exhaust gases.
- 2 Removal or puncturing of parts of the intake system.
- 3 Lack of proper maintenance.
- 4 Replacing moving parts of the vehicle, or parts of the exhaust system or intake system, with parts other than those specified by the manufacturer.

2.6 Safe operation



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and 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 impaired.



Danger

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

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



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before
 the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Only operate the vehicle when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

The vehicle should only be used by trained persons.

Have malfunctions that impair safety immediately eliminated by an authorized GASGAS Motorcycles workshop. Adhere to the information and warning labels on the vehicle.

2.7 Protective clothing



Warning

Risk of injury Missing or poor protective clothing presents an increased safety risk.

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers 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, GASGAS Motorcycles recommends that you only operate the vehicle while wearing protective clothing.

2.8 Work rules

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

Special tools are necessary for certain tasks. The tools are not a component of the vehicle, but can be ordered using the number in parentheses. Example: bearing puller (15112017000)

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).

In the case of certain screws, a screw adhesive (e.g. **Loctite***) is required. Observe the manufacturer's instructions. If thread locker (e.g., **Precote***) has already been applied to a new part, do not apply any additional thread locker. After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts.

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

2.9 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.

Because motorcycles are not subject to the EU regulations governing the disposal of used vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. Your authorized GASGAS Motorcycles dealer will be glad to advise you.

2.10 Owner's Manual

Read this owner's manual carefully and completely before making your first trip. The Owner's Manual contains useful information and many tips on how to operate, handle, and service your motorcycle. This is the only way to find out how best to customize the vehicle for your own use and how you can protect yourself from injury.



Tip

Store the Owner's Manual on your terminal device, for example, so that you can read it whenever you need to.

If you would like to know more about the vehicle or have questions on the material you read, please contact an authorized GASGAS Motorcycles dealer.

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 several times using the QR code or the link on the delivery certificate.

The Owner's Manual is available for download from your authorized GASGAS Motorcycles dealer and on the GASGAS Motorcycles website. A printed copy can also be ordered from your authorized GASGAS Motorcycles dealer. International GASGAS Motorcycles website: http://www.gasgas.com

3.1 Manufacturer warranty, implied warranty

The work specified in the service schedule may only be carried out in an authorized GASGAS Motorcycles workshop and confirmed in the **GASGAS Motorcycles Dealer.net**, 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 warranty.

3.2 Fuel, auxiliary substances



Note

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

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

Use fuels and auxiliary substances in accordance with the Owner's Manual and specification.

3.3 Spare parts, accessories

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

Certain spare parts and accessory products are specified in parentheses in the descriptions. Your authorized GASGAS Motorcycles dealer will be glad to advise you.

The latest news **GASGAS Technical Accessories** on your vehicle can be found on the GASGAS Motorcycles website. International GASGAS Motorcycles website: http://www.gasgas.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 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.

It is imperative that you adhere to the stipulated run-in times and service intervals. If you observe these exactly, you will ensure a much longer service life for your motorcycle.

The relevant mileage or time interval is whichever occurs first.

3.5 Figures

The figures contained in the manual may depict special equipment.

In the interest of clarity, some components may be shown disassembled or may not be shown at all. It is not always necessary to disassemble the component to perform the activity in question. Please follow the instructions in the text.

3.6 Customer service

Your authorized GASGAS Motorcycles dealer will be happy to answer any questions you may have regarding your vehicle and GASGAS Motorcycles.

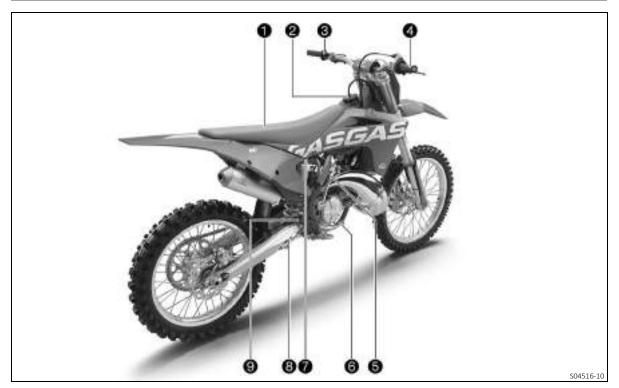
A list of authorized GASGAS Motorcycles dealers can be found on the GASGAS Motorcycles website. International GASGAS Motorcycles website: http://www.gasgas.com

4.1 View of vehicle, front left (example)



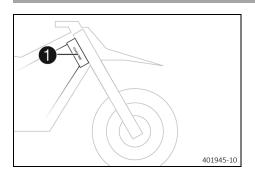
- 1 Hand brake lever (p. 14)
- 2 Clutch lever (p. 14)
- **3** Air filter box cover
- 4 Shift lever (p. 16)
- **6** Choke (p. 16)
- **6** Fuel tap

4.2 View of vehicle, rear right (example)



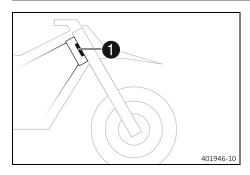
- 0
- 0 Fuel tank filler cap
- 8 Stop button (🕮 p. 14)
- 4 Throttle grip (🕮 p. 14)
- 6 Kick starter lever (🕮 p. 17)
- **6** Foot brake lever (🕮 p. 17)
- 7 Shock absorber compression adjustment
- 8 Shock absorber rebound adjustment
- 9 Level viewer for brake fluid, rear

5.1 Vehicle identification number



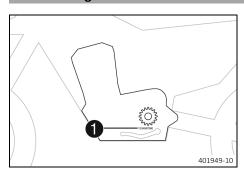
The vehicle identification number 1 is stamped on the right side of the steering head.

5.2 Type label



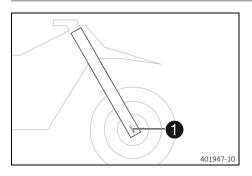
The type label 1 is fixed to the front of the steering head.

5.3 Engine number



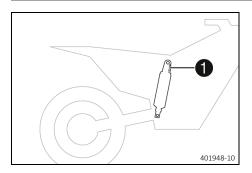
The engine number 1 is stamped on the left side of the engine under the engine sprocket.

5.4 Fork part number



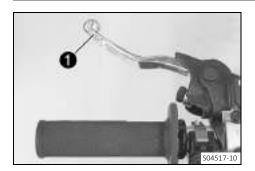
The fork part number 1 is stamped on the inside of the axle clamp.

5.5 Shock absorber article number



Shock absorber article number 1 is stamped on the top of the shock absorber above the adjusting ring towards the engine side.

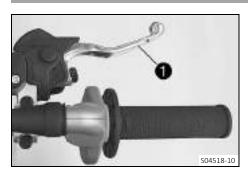
6.1 Clutch lever



Clutch lever is fitted on the handlebar on the left.

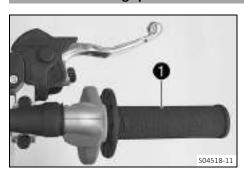
The clutch is activated hydraulically and adjusts itself automatically.

6.2 Hand brake 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



Throttle grip **1** is fitted on the right side of the handlebar.

6.4 Stop button



The stop button 1 is fitted on the left side of the handlebar.

Possible states

- The stop button ⊗ is in the basic position In this position, the ignition circuit is closed and the engine can be started.
- Stop button

 pressed In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Note

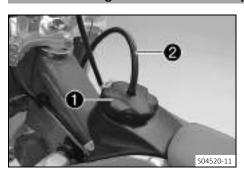
Environmental hazard Improper handling of fuel is a danger to the environment.

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



Turn fuel tank filler cap 1 counterclockwise and lift it off.

6.6 Closing the fuel tank filler cap



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



Info

Route fuel tank breather hose **2** without kinks.

6.7 **Fuel tap**



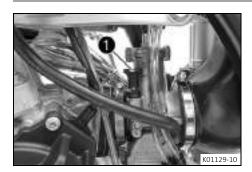
The fuel tap is on the left side of the fuel tank.

Open or close the fuel supply to the carburetor using knurled screw 1 on the fuel tap.

Possible states

- Fuel tap is closed Fuel cannot flow from the fuel tank to the carburetor.
- Fuel tap is open Fuel can flow from the fuel tank to the carburetor. The fuel tank empties completely.

6.8 Choke



Choke 1 is fitted on the left side of the carburetor.

Activating the choke function frees a drill hole in the carburetor through which the engine can draw extra fuel. This results in a richer fuel-air mixture, which is needed for a cold start.



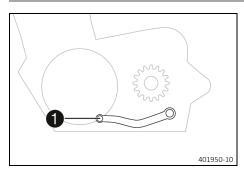
Info

If the engine is warm, the choke function must be deactivated.

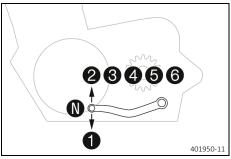
Possible states

- Choke function activated The choke lever is pulled out to the
- Choke function deactivated The choke lever is pushed in to the stop.

6.9 **Shift lever**

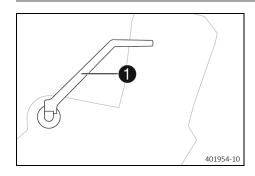


Shift lever 1 is mounted on the left of the engine.



The gear positions can be seen in the photograph. The neutral or idle position is between the first and second gears.

6.10 Kick starter lever



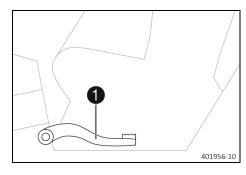
Kick starter lever 1 is fitted on the right side of the engine. The kick starter lever can be swiveled.



Info

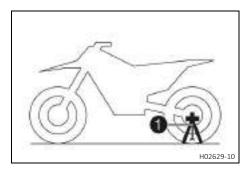
Before riding, swing the kick starter lever inwards towards the engine.

6.11 Foot brake lever



Foot brake lever is located in front of the right footrest. The foot brake lever is used to activate the rear brake.

6.12 Plug-in stand



The holder for the plug-in stand 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 locker when transporting the motor-



cycle.

Info

Remove the plug-in stand before riding.

7.1 Advice on preparing for first use



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and 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 impaired.



Warning

Risk of injury Missing or poor protective clothing presents an increased safety risk.

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



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic. Different tire tread patterns can make the vehicle significantly more difficult to control.

- Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.



Warning

Danger of accidents An unadapted riding style impairs the handling characteristic.

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



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 foot brake lever is not released, the brake linings drag continuously.

- Take your foot off the foot brake lever if you do not want to brake.



Warning

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

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



Warning

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

- Do not leave the vehicle unattended if the engine is running.
- Protect the vehicle against access by unauthorized persons.



Info

When using your motorcycle, remember that others may feel disturbed by excessive noise.

- Make sure that the pre-sales inspection work has been carried out by an authorized GASGAS Motorcycles workshop.
- ✓ You will receive a delivery certificate when the vehicle is handed over.
- Before riding for the first time, read the entire Owner's Manual carefully.
- Get to know the controls.
- Adjust the basic position of the clutch lever. (p. 68)
- Adjust the basic position of the hand brake lever. (p. 71)
- Adjust the basic position of the foot brake lever. 🔌 🕮 p. 77)
- Adjust the basic position of the shift lever. ♣ (♀ p. 100)

 Get used to the handling characteristics of the motorcycle on a suitable surface before undertaking more challenging trips.



Info

Your motorcycle is not approved for use on public roads.

When offroad, it is recommended that you are accompanied by another person on another vehicle so that you can help each other.

- Try also to ride as slowly as possible and in a standing position to get a better feel for the motorcycle.
- Do not make any off-road trips that exceed your ability and experience.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Do not take luggage along.
- Do not exceed the maximum permissible weight and the maximum permissible axle loads.

Guideline

Maximum permissible overall weight	335 kg (739 lb.)
Maximum permissible front axle load	145 kg (320 lb.)
Maximum permissible rear axle load	190 kg (419 lb.)



Info

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

Run the engine in. (
 p. 19)

7.2 Running in the engine

During the running-in phase, do not exceed the specified engine performance.
 Guideline

Maximum engine performance	
During the first 3 operating hours	< 70 %
During the first 5 operating hours	< 100 %



Info

The use of a service hour counter is recommended in order to be able to check the mileage at any time.

- Avoid fully opening the throttle.

7.3 Preparing the vehicle for difficult operating conditions



Info

Use of the vehicle under difficult conditions, such as on sand or on wet and muddy circuits/surfaces, can lead to considerably more rapid 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.

- Prepare air filter box cover for securing. ♣ (□ p. 57)
- Clean the air filter and air filter box. ◄ (□ p. 56)



Info

Check the air filter approx. every 30 minutes.

Check the electrical connector for humidity and corrosion and to ensure it is firmly seated.

- » If humidity, corrosion, or damage is found:
 - Clean and dry the connector, or change it if necessary.
- Make sure that no radiator covers are installed.

Difficult operating conditions are:

- Rides on dry sand. (p. 20)
- Rides on wet sand. (p. 21)
- Rides on wet and muddy circuits. (p. 22)

7.4 Preparing the vehicle for rides on dry sand



Check the radiator cap.

Value on the radiator cap 1.8 bar (26 psi)

» If the indicated value does not correspond to the setpoint value:



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.
- Change the radiator cap.
- Mount the air filter dust cover.

Air filter dust cover (79006920000)



Info

Observe the fitting instructions for **GASGAS Technical Accessories**.



- Mount the air filter sand cover.

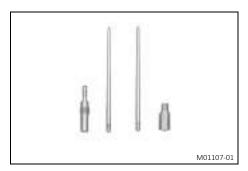
Air filter sand cover (79006922000)





Info

Observe the fitting instructions for **GASGAS Technical Accessories**.



Adjust the carburetor jetting and setting.



Info

The recommended carburetor tuning is available from your authorized GASGAS Motorcycles workshop.



Clean the chain.

Chain cleaner (p. 122)

- Mount the steel sprocket.
- Grease the chain.

Universal oil spray (🕮 p. 123)

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

Condition

Regular use in sand

- Change the piston every 10 operating hours.

•

7.5 Preparing the vehicle for rides on wet sand



Check the radiator cap.

Value on the radiator cap	1.8 bar (26 psi)
---------------------------	------------------

» If the indicated value does not correspond to the setpoint value:



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.
- Change the radiator cap.



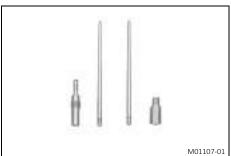
Mount the air filter rain cover.

Air filter rain cover (79006921000)



Info

Observe the fitting instructions for **GASGAS Technical Accessories**.



Adjust the carburetor jetting and setting.



Info

The recommended carburetor tuning is available from your authorized GASGAS Motorcycles workshop.



Clean the chain.

Chain cleaner (p. 122)

- Mount the steel sprocket.
- Grease the chain.

Universal oil spray (🕮 p. 123)

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

Condition

Regular use in sand

- Change the piston every 10 operating hours.

7.6 Preparing the vehicle for rides on wet and muddy circuits



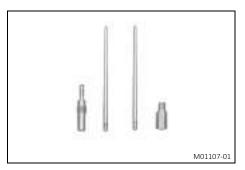
Mount the air filter rain cover.

Air filter rain cover (79006921000)



Info

Observe the fitting instructions for **GASGAS Technical Accessories**.



Adjust the carburetor jetting and setting.



Info

The recommended carburetor tuning is available from your authorized GASGAS Motorcycles workshop.



- Mount the steel sprocket.
- Clean the motorcycle. (p. 106)
- Straighten the bent radiator fins carefully.

7.7 Preparing vehicle for high temperatures or slow riding



Check the radiator cap.

Value on the radiator cap	1.8 bar (26 psi)

» If the indicated value does not correspond to the setpoint value:



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.
- Change the radiator cap.
- Adjust the secondary drive to the road conditions.



ln:

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

Clean the chain.

Chain cleaner (🕮 p. 122)

- Clean the radiator fins.
- Straighten the bent radiator fins carefully.
- Check the coolant level. (🕮 p. 90)

23

7.8 Preparing the vehicle for low temperatures or snow

M01107-01



Mount the air filter rain cover.

Air filter rain cover (79006921000)



Info

Observe the fitting instructions for **GASGAS Technical Accessories**.

Adjust the carburetor jetting and setting.



Info

The recommended carburetor tuning is available from your authorized GASGAS Motorcycles workshop.

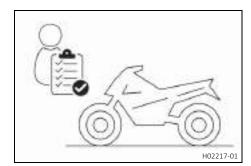
4

8.1 Checks and maintenance measures when preparing for use



Info

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 the gear oil level. ([□] p. 103)
- Check the front brake fluid level. (p. 72)

- Check the brake linings of the rear brake. (p. 79)
- Check that the brake system is functioning properly.
- Check the chain for dirt. (p. 61)
- Check the chain, rear sprocket, engine sprocket, and chain guide.
 p. 64)
- Check the chain tension. (p. 62)
- Check the tire condition. (p. 86)
- Check tire pressure. (p. 86)
- Check the spoke tension. (p. 87)



Info

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

- Bleed the fork legs. (p. 42)
- 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



Danger

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

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

Note

Engine damage High revving speed with a cold engine negatively impacts the lifespan of the engine.

Always run the engine warm at a low speed.



Info

If the motorcycle is unwilling to start, the cause can be old fuel in the float chamber. The flammable elements of the fuel evaporate after a long time of standing.

If the float chamber is filled with fresh fuel, the engine starts immediately.

The motorcycle has been out of use for more than 1 week

- Empty the carburetor float chamber. **◄** (♠ p. 102)
- Turn the knurled screw on the fuel tap all the way counterclockwise.
 - ✓ Fuel can flow from the fuel tank to the carburetor.
- Remove plug-in stand 🕕.
- Shift the transmission into neutral.

Condition

The engine is cold

- Pull the choke lever out as far as possible.
- Press the kick starter robustly through its full range.



Info

Do not open the throttle.

8.3 Starting off



Info

The plug-in stand must be removed before riding.

When you are riding, the side stand must be folded up and secured with the rubber strap.

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

, _

8.4 Shifting, riding



Warning

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

- Do not change into a low gear at high engine speed.



Info

If you hear unusual noises while riding, stop immediately, switch off the engine, and contact an authorized GAS-GAS Motorcycles workshop.

First-gear is used for starting off and for steep inclines.

- Shift into a higher gear when conditions allow (incline, road 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 the choke function has been activated, deactivate it after the engine has warmed up.
- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is ¾ open. This will barely reduce the speed, but fuel consumption will be considerably lower.
- Always open the throttle only as much as the engine can handle abrupt throttle opening increases fuel consumption.
- To shift down, apply the brakes 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 running at idle speed or stationary for a long time.
 Guideline

≥ 2 min

- Avoid frequent or lengthy slipping of the clutch. This causes the gear oil, engine and cooling system to heat up.
- Ride at a low engine speed instead of at a high engine speed with a slipping clutch.

•

8.5 Applying the brakes



Warning

Danger of accidents Excessively forceful application of the brakes blocks the wheels.

Adjust application of the brakes to the respective riding situation and riding surface conditions.



Warning

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

Check the brake system and do not continue riding until the problem is eliminated. (Your authorized GAS-GAS Motorcycles workshop will be glad to help.)



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- On sandy, wet, or slippery surfaces, use the rear brake mostly if possible.
- Always finish braking before you go into a bend. Change down to a lower gear appropriate to your road speed.
- Use the braking effect of the engine on long downhill stretches. Change down one or two gears, but do not over-rev the
 engine. You will have to apply the brakes far less frequently as a result and the brake system will not overheat.

8.6 Stopping, parking



Warning

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

- Do not leave the vehicle unattended if the engine is running.
- Protect the vehicle against access by unauthorized persons.



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before
 the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Note

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

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

Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused 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.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.
- Apply the brakes on the motorcycle.
- Shift the transmission to neutral position.
- Press and hold the stop button ⋈ while the engine is idling until the engine stops.
- Turn the knurled screw on the fuel tap all the way clockwise.
- Rest the vehicle on the plug-in stand.

4

Transporting

Note

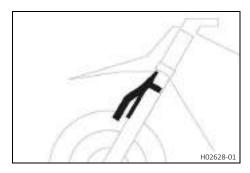
Danger of damage The parked vehicle can roll away or fall over.

Park the vehicle on a firm and level surface.

Note

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

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



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

Plug-in stand (79029094000)



Info

The plug-in stand is included.

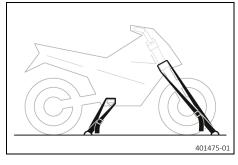
Make sure the brake line runs in front of the plug-in stand and does not become wedged.

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



Info

Only tighten the tension belts to the point that the plug-in stand is firmly in contact with the fender and the tires. Pay attention to the alignment of the plug-in stand to the fender.



Refueling



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

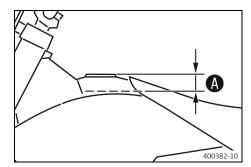
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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



Note

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

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



- Switch off the engine.
- Open the fuel tank filler cap. (p. 15)
- Fill the fuel tank with fuel up to measurement **(A)**.

Measurement of A		35 mm (1.38 in)			
Total fuel tank capacity, approx.	7.5 l (1.98 U	JS gal)	Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40) (p. 121)		
Engine oil, 2-stroke (🕮	o. 120)				

Close the fuel tank filler cap. (p. 15)

•

9.1 Additional information

Any further work that results from the compulsory work or from the recommended work must be ordered separately and invoiced separately.

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

Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule can always be found on GASGAS Motorcycles Dealer.net. Your authorized GASGAS Motorcycles dealer will be glad to advise you.

The use of a service hour counter is recommended in order to be able to check the mileage at any time. Service hour counter (A54012920000)

9.2 Required work

		aft	er ev	ery r	ace
Every 4	10 ор			-	
Every 20 op	erati	ng ho	ours		
Every 10 operati					
After 1 operating h	nour				
Change the gear oil. ❖ (♀ p. 103)		•	•	•	
Check the front brake linings. (🕮 p. 74)		•	•	•	•
Check the brake linings of the rear brake. (🕮 p. 79)		•	•	•	•
Check the brake discs. (🕮 p. 71)		•	•	•	•
Check the brake lines for damage and leakage.		•	•	•	•
Check the rear brake fluid level. (p. 77)		•	•	•	•
Check the free travel of the foot brake lever. (🕮 p. 76)		•	•	•	•
Check the frame. ❖ (♀ p. 66)		•	•	•	•
Check the link fork. ◀ (의 p. 66)		•	•	•	•
Checking the link fork bearing for play. 🔏			•	•	
Checking the shock absorber heim joint for play.		•	•	•	•
Check the shock absorber linkage. ◀		•	•	•	•
Check the tire condition. (🕮 p. 86)	0	•	•	•	•
Check tire pressure. (p. 86)	0	•	•	•	•
Check the wheel bearing for play. 🌂		•	•	•	•
Check the wheel hubs. ◀		•	•	•	•
Check the rim run-out. ◀	0	•	•	•	•
Check the spoke tension. (p. 87)	0	•	•	•	•
Check the chain, rear sprocket, engine sprocket, and chain guide. (🕮 p. 64)		•	•	•	•
Check the chain tension. (🕮 p. 62)	0	•	•	•	•
Grease all moving parts (e.g., hand lever, chain,) and check for smooth operation.		•	•	•	•
Check/correct the fluid level of the hydraulic clutch. (🕮 p. 68)		•	•	•	•
Check the front brake fluid level. (🕮 p. 72)		•	•	•	•
Check the free travel of the hand brake lever. (🕮 p. 71)		•	•	•	•
Check steering head bearing play. (🕮 p. 48)	0	•	•	•	•
Change the spark plug and spark plug connector.		•	•	•	
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing.	0	•	•	•	•
Check the antifreeze and coolant level. (🕮 p. 89)	0	•	•	•	•
Check the cables for damage and for routing without kinks. 🔏		•	•	•	•
Check that the throttle cables are undamaged, routed without sharp bends, and set correctly.	0	•	•	•	•
Clean the air filter and air filter box. ❖ (ᆗ p. 56)		•	•	•	•

		af	ter ev	very	race
	Every 40 op	erati	ng ho	ours	
Every	/ 20 operati	ng ho	ours		
Every 10 c	perating ho	ours			
After 1 oper	ating hour				
Change the glass fiber yarn filling in the main silencer. ◀ (의 p. 58)			•	•	
Service the fork.				•	
Perform the shock absorber service.				•	
Check the tightness of the easily accessible, safety-relevant screws and nuts. 🔏	0	•	•	•	•
Check the idle speed. ◀	0	•	•	•	•
Final check: Check the vehicle for operating safety and take a test ride.	0	•	•	•	•
Make a service entry in GASGAS Motorcycles Dealer.net . ❖	0	•	•	•	•

- One-time interval
- Periodic interval

9.3 **Recommended work**

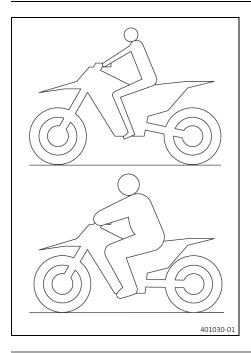
every 48 mo			mor	nths		
every 12 more						
after every rac Every 40 operating hours						
After 20 operating hours / Every 20 operating hours						
After 10 operating hours / Every 10 operating hours	ours					
Change the front brake fluid. 🌂					•	•
Change the rear brake fluid. 🌂					•	•
Change the hydraulic clutch fluid. ◀ (의 p. 69)					•	•
Lubricate the steering head bearing. ◀ (의 p. 49)					•	•
Service the fork.	0					
Perform the shock absorber service.		0				
Check/adjust the carburetor components. ◀			•		•	•
Change the needle jet. ◀			•		•	•
Change the coolant. ◀ (🕮 p. 93)						•
Perform minor engine service. (Check the inlet membrane. Check the clutch. Under difficult operating conditions: Change the piston and check the cylinder and Z dimension.)	•	•	•	•		
Perform the intermediate engine service. (Change the piston and check the cylinder and Z dimension. Check the exhaust control for functioning and smooth operation.)		•	•			
Perform major engine service including removing and installing the engine. (Change the connecting rod, conrod bearing, and crank pin. Check the transmission and shift mechanism. Change all engine bearings.)			•			

- One-time interval
- Periodic interval

i

Info

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, link fork and frame, the basic settings of the suspension components must match the rider's weight.
- As delivered, GASGAS offroad motorcycles are adjusted for an average rider's weight (with full protective clothing).
 Guideline

Standard rider weight	75 85 kg (165 187 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 preload, but in the case of large weight differences, the springs must be replaced.



10.2 Air suspension XACT 5448



Air suspension **WP Suspension XACT 5448** is used in the fork. In this system, 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.



Info

If the fork is frequently overloaded, then the air pressure in the fork 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 airpump. 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 reduces.

As with a conventional fork, the damping can be adjusted in rebound and compression stages.

The rebound adjuster is located at the lower end of the right fork leg. The compression adjuster is located at the upper end of the right fork leg.

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 adjuster has an effect, for example, when landing after a jump: the rear wheel suspension compresses quickly.

The low-speed compression adjuster has an effect, for example, when riding over long ground swells: the rear wheel suspension compresses slowly.

These two ranges can be adjusted separately, although the transition between high-speed and low-speed is gradual. Thus, modifications 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

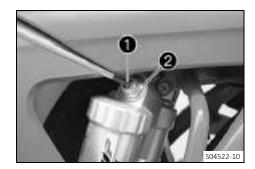
Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

Please follow the description provided. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Info

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



Turn adjusting screw clockwise with a screwdriver as far as the last perceptible click.



Info

Do not loosen fitting 2



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

Guideline

Lowspeed compression damping	owspeed compression damping		
Comfort	17 clicks		
Standard	15 clicks		
Sport	13 clicks		



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

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



Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Info

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

Turn adjusting screw 1 all the way clockwise with a socket wrench.



Info

Do not loosen fitting **2**!

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

Guideline

Highspeed compression damping	ghspeed compression damping			
Comfort	2 turns			
Standard	1.5 turns			
Sport	1 turn			



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

_

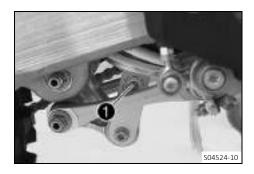
10.6 Adjusting the rebound damping of the shock absorber



Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

Please follow the description provided. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



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

Guideline

Rebound damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks



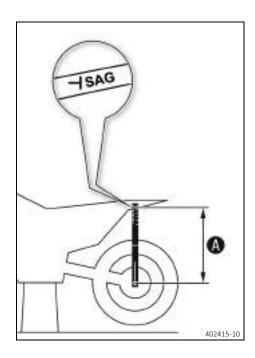
Info

Turn clockwise to increase the damping; turn counterclockwise to reduce damping when the shock absorber rebounds.

•

10.7 Measuring the rear wheel dimension unloaded

Preparatory work



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

Sag gauge (00029090000) Sag gage pin (00029990010)

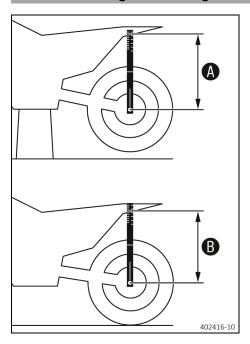
Note down the value as dimension (A).



Finishing work

Remove the motorcycle from the lift stand. (p. 42)

10.8 Checking the static sag of the shock absorber



- Measure dimension **A** of rear wheel unloaded. (p. 34)
- 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 gage.
- Note the value as dimension **B**.



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

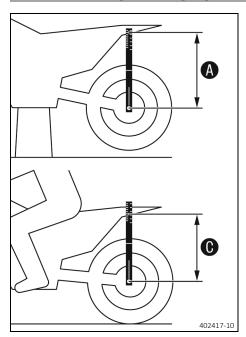


Check the static sag.

35 mm (1.38 in) Static sag

- If the static sag is less or more than the specified value:
 - Adjust the spring preload of the shock absorber. 🔌 (🕮 p. 36)

10.9 Checking the riding sag of the shock absorber



- Measure dimension A of rear wheel unloaded. (p. 34)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal sitting position (feet on footrests) and bounces up and down a few times.
 - ✓ The rear wheel suspension levels out.
- Another person again measures the distance between the rear axle and marking **SAG** on the rear fender using the sag gage.
- Note the value as dimension **(6)**.



Info

The riding sag is the difference between measurements (A)



Check riding sag.

Guideline

Riding sag	105 mm (4.13 in)

- If the riding sag differs from the specified measurement:
 - Adjust the riding sag. 4 (p. 37)

10.10 Adjusting the spring preload of the shock absorber &



Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized GASGAS Motorcycles workshop will be glad to help.)

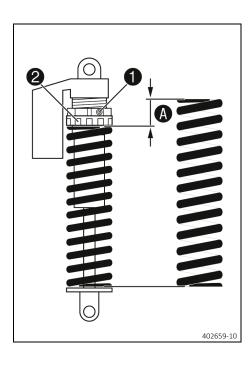


Info

Before changing the spring preload, make a note of the present setting, e.g., by measuring the spring length.

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Remove the shock absorber. 4 (p. 50)
- After removing the shock absorber, clean it thoroughly.



- Loosen screw 1.
- Turn adjusting ring 2 until the spring is no longer under tension.

Hook wrench (90129051000)



Info

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 2 to specified dimension A.

Guideline

Spring preload 7 mm (0.28 in)



nfo

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

Tighten screw 1.

Guideline

Screw, shock absorber	M5	5 Nm (3.7 lbf ft)
adjusting ring		

Finishing work

- Install the shock absorber. ♣ (🕮 p. 52)
- Remove the motorcycle from the lift stand. (
 p. 42)

10.11 Adjusting the riding sag 🔌

Preparatory work

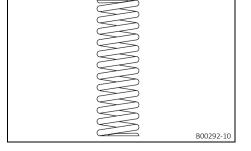
- Raise the motorcycle with a lift stand. (p. 42)
- Remove the shock absorber. ❖ (♠ p. 50)
- After removing the shock absorber, clean it thoroughly.

Main work

Choose and mount a suitable spring.

Guideline

Spring rate	
Weight of rider: 65 75 kg (143 165 lb.)	36 N/mm (206 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	39 N/mm (223 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	42 N/mm (240 lb/in)





Info

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

Finishing work

- Install the shock absorber. 🔌 🕮 p. 52)
- Remove the motorcycle from the lift stand. (p. 42)

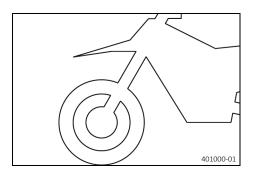
- Check the riding sag of the shock absorber. (p. 36)
- Adjust the rebound damping of the shock absorber. (p. 34)

10.12 Checking the basic setting of the fork



Info

For various reasons, no exact riding 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.

10.13 Adjusting the fork air pressure



Warning

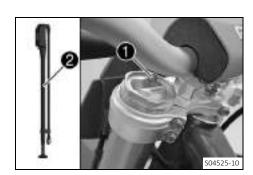
Danger of accident Modifications to the suspension setting may seriously alter the handling characteristic. Extreme modifications to the suspension setting may cause a serious deterioration in the handling characteristic and overload components.

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



Info

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. 42)

Main work

Remove protection cap 1



Push together fork airpump 2 fully.

Fork airpump (79412966100)



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

- Connect the fork airpump to the left fork leg.
 - The fork airpump indicator switches on automatically.
 - A little air escapes from the fork leg when connecting.



Info

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

Read the accompanying **GASGAS Technical Accessories** instructions.

Adjust the air pressure as specified.

Guideline

Air pressure	8.3 bar (120 psi)
Gradual changing of the air pressure in steps of	0.2 bar (3 psi)
Minimum air pressure	7 bar (102 psi)
Maximum air pressure	12 bar (174 psi)



Info

Never adjust the air pressure to a value outside the stated range.

- Disconnect the fork airpump 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 airpump indicator switches off automatically after 80 seconds.
- Mount the protection cap.



Info

Only mount the protection cap by hand.

Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

10.14 Adjusting the compression damping of the fork



Info

The hydraulic compression damping determines the fork suspension behavior.



Turn adjusting screw 1 clockwise all the way.



Info

Adjusting screw **1** is located at the upper end of the right fork leg.

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

Guideline

Compression damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks

Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping during compression.

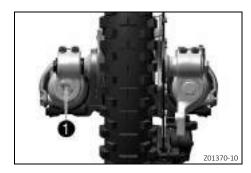
•

10.15 Adjusting the rebound damping of the fork



Info

The hydraulic rebound damping determines the fork suspension behavior.



Turn adjusting screw 1 clockwise all the way.



Info

Adjusting screw is located at the lower end of the right fork leg.

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

Guideline

Rebound damping	
Comfort	17 clicks
Standard	12 clicks
Sport	7 clicks

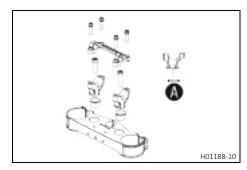


Info

Turn clockwise to increase the damping; turn counterclockwise to reduce damping when the shock absorber rebounds.

4

10.16 Handlebar position



The holes on the handlebar supports are placed at a distance of $oldsymbol{\mathbb{A}}$ from the center.

Hole distance A	3.5 mm (0.138 in)

The handlebar can be mounted in 2 different positions. In this way, the handlebar can be mounted in the most comfortable position for the rider.

10.17 Adjusting the handlebar position &



Warning

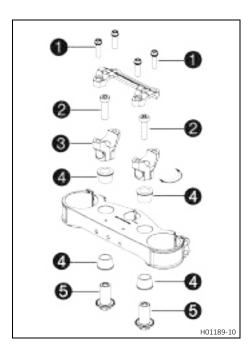
Danger of accidents A repaired handlebar poses a safety risk.

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.

Preparatory work

Remove the handlebar cushion.



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



Info

Cover the components to protect them against damage. Do not kink the cables and lines.

- Remove screws **2** . Take off handlebar supports **3** .
- Position rubber bushings 4 and push through nuts 5 from below
- Place the handlebar supports in the required position.



Info

The handlebar supports are longer and higher on one side. Position the left and right handlebar supports evenly.

Mount and tighten screws 2.
 Guideline

Screw, handlebar	M10	40 Nm (29.5 lbf ft)
support		Loctite [®] 243™

Position the handlebar.



Info

Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamp.
- Mount screws 1 but do not tighten yet.
- First bolt the handlebar clamp with screws 1 onto the longer, higher side of the handlebar supports so that both parts touch.
 Guideline

Screw, handlebar	M8	20 Nm (14.8 lbf ft)
clamp		

Tighten screws 1 evenly.

Guideline

ĺ			(
	Screw, handlebar	M8	20 Nm (14.8 lbf ft)
	clamp		

Finishing work

- Mount the handlebar cushion.

41

11.1 Raising the motorcycle with a lift stand

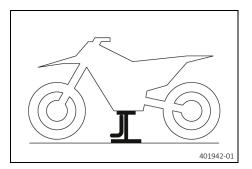
Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused 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.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.



- Raise the motorcycle at the frame underneath the engine.

Lift stand (A54029955100)

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

11.2 Removing the motorcycle from the lift stand

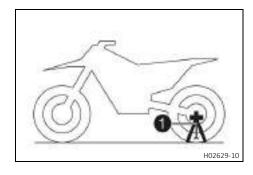
Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused 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.
- Ensure that nobody sits on the vehicle when the vehicle 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.



Info

Remove the plug-in stand before riding.

11.3 Bleeding the fork legs

H01182-12

Preparatory work

Main work

Release bleeder screws 1



Tighten the bleeder screws.

•

Finishing work

Remove the motorcycle from the lift stand. (p. 42)

11.4 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Remove the fork protector. (p. 45)

Main work

Push dust boots 1 of both fork legs downward.



Info

The dust boots remove dust and coarse dirt particles from the inside 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.



M01134-10

Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.
- Clean and oil the dust boots and inner fork tubes of both fork legs.

Universal oil spray (p. 123)

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

Finishing work

- Install the fork protector. (p. 45)
- Remove the motorcycle from the lift stand. (p. 42)

11.5 Removing the fork legs 4

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Remove the front wheel. 🔌 (🕮 p. 82)

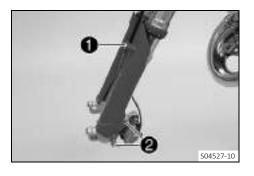
Main work

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



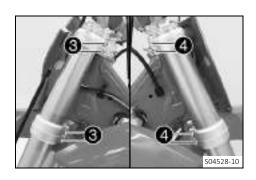
Info

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



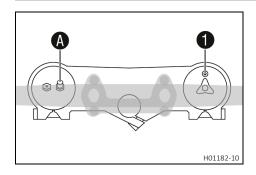


11 SERVICE WORK ON THE CHASSIS



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

11.6 Installing the fork legs 4



Main work

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



Info

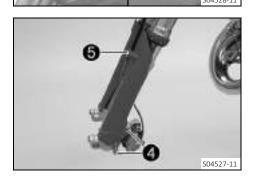
Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp. The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.

Tighten screws 2.Guideline



Tighten screws 3.Guideline

Screw, bottom triple	M8	15 Nm (11.1 lbf ft)
clamp		



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

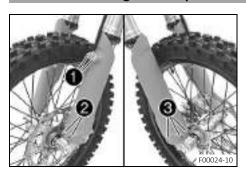
Screw, front	M8	25 Nm (18.4 lbf ft)
brake caliper		Loctite [®] 243™

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

Finishing work

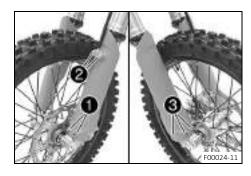
- Install the front wheel. ❖ (♠ p. 83)

11.7 Removing the fork protector



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

11.8 Installing the fork protector



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

Guideline

ı			
	Remaining screws,	M6	10 Nm (7.4 lbf ft)
	chassis		

- Position the brake line and clamp. Mount and tighten screws $\mathbf{2}$.
- Position the fork protector on the right fork leg. Mount and tighten screws 3.

Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

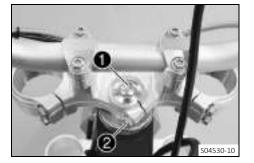
11.9 Removing the lower triple clamp 🔦

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Remove the front wheel. ❖ (🕮 p. 82)
- Remove the fork legs. ◀ (🕮 p. 43)
- Remove the start number plate. (p. 49)
- Remove front fender. (🕮 p. 50)
- Remove the handlebar cushion.

Main work

- Remove screw 1.
 - Remove screw 2
- Take off the upper triple clamp with the handlebar and hang them to the side





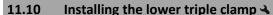
Info

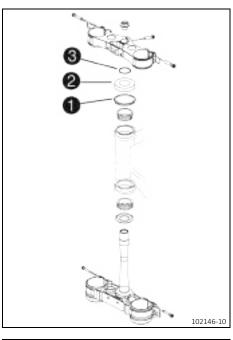
Cover the components to protect them against damage. Do not kink the cables and lines.

11 SERVICE WORK ON THE CHASSIS



- Remove O-ring **3**. Remove protective ring **4**.
- Take off the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.





Main worl

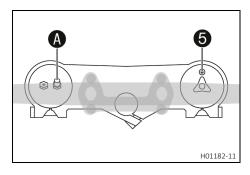
 Clean the bearing and sealing elements, check for damage, and grease.

High viscosity grease (🕮 p. 122)

- Insert the lower triple clamp with the steering stem. Mount upper steering head bearing.
- Check whether upper steering head seal 1 is correctly positioned.
- Slide on protective ring 2 and O-ring 3.



- Position the upper triple clamp with the handlebar.
- Mount screw 4, but do not tighten yet.

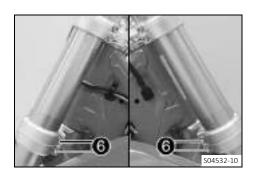


- Position the fork legs.
 - ✓ Air bleeder screw **5** of the right fork leg is positioned to the front.
 - ✓ Valve ♠ of the left fork leg faces the front.



Info

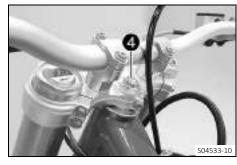
The air suspension **AER** valve is located in the left fork leg. Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.



Tighten screws **6**.

Guideline

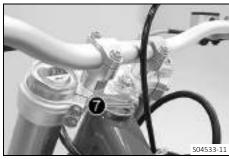
Screw, bottom triple	M8	15 Nm (11.1 lbf ft)
clamp		



Tighten screw 4.

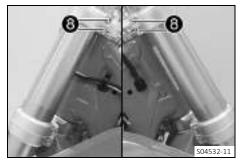
Guideline

Screw, top steering	M20x1.5	12 Nm (8.9 lbf ft)
head		



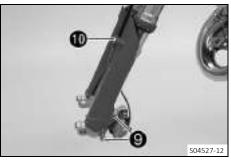
Mount and tighten screw 7. Guideline

Screw, top steer-	M8	20 Nm (14.8 lbf ft)
ing stem		Loctite [®] 243™



Tighten screws 8. Guideline

Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)



Position the brake caliper. Mount and tighten screws **9**. Guideline

Screw, front	M8	25 Nm (18.4 lbf ft)
brake caliper		Loctite°243™

Position the brake line and the clamp. Mount and tighten screws **10**.

Finishing work

- Check that the wiring harness, throttle cables, and brake and clutch lines can move freely and are routed correctly.
- Install front fender. (p. 50)
- Install the front wheel. 🔌 (🕮 p. 83)

- Check steering head bearing play. (\$\square\$ p. 48)
- Remove the motorcycle from the lift stand. (p. 42)
- Install the start number plate. (🕮 p. 49)
- Mount the handlebar cushion.

11.11 Checking steering head bearing play



Warning

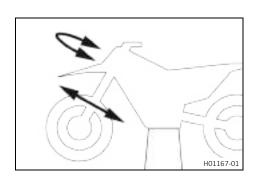
Danger of accidents Incorrect steering head bearing play impairs the handling characteristic and damages components.

 Correct incorrect steering head bearing play immediately. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Info

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 over time.



Preparatory work

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 steering head bearing play. ◄ (♣ p. 48)
- Move the handlebar to and fro 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 steering head bearing play. 🔌 (🕮 p. 48)
 - Check the steering head bearing and change if necessary.

Finishing work

11.12 Adjusting steering head bearing play &

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Remove the handlebar cushion.

Main work

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

Guideline

Screw, top steering	M20x1.5	12 Nm (8.9 lbf ft)
head		

1 S04534-10

48

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

Guideline

20 Nm (14.8 lbf ft) Screw, top triple clamp M8

Mount and tighten screw **2**.

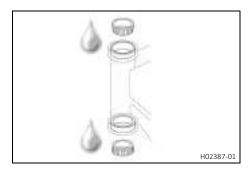
Guideline

Screw, top steer-M8 20 Nm (14.8 lbf ft) Loctite[®]243™ ing stem

Finishing work

- Check steering head bearing play. (p. 48)
- Remove the motorcycle from the lift stand. (p. 42)
- Mount the handlebar cushion.

11.13 Lubricating the steering head bearing &



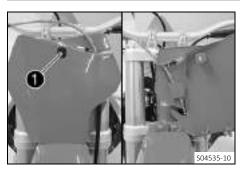
- Remove the lower triple clamp. ◀ (의 p. 45)
- Install the lower triple clamp. 🔌 (🕮 p. 46)



Info

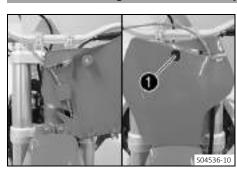
The steering head bearing is cleaned and lubricated in the course of removal and installation.

11.14 Removing the start number plate



- Remove screw 1
- Disconnect the brake line at the start number plate. Take off the start number plate.

11.15 Installing the start number plate



- Connect the brake line at the start number plate.
- Position the start number plate.
 - ✓ The holding lugs engage in the fender.
- Mount and tighten screw 1.



11.16 Removing front fender

2

Preparatory work

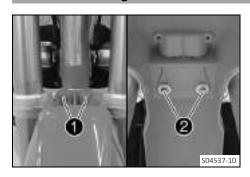
- Remove the start number plate. (p. 49)

Main work

Remove screws 1 and 2. Remove front fender.

4

11.17 Installing front fender



Main work

Position front fender. Mount and tighten screws **1** and **2**. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

Finishing work

- Install the start number plate. (p. 49)

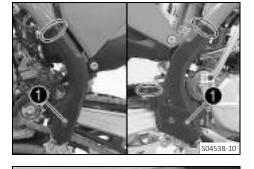
11.18 Removing the shock absorber 4

Preparatory work

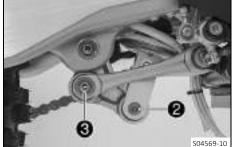
- Raise the motorcycle with a lift stand. (p. 42)

Main work

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



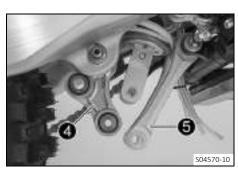
- Remove screw 2.
- Remove fitting **3**.



i

Into

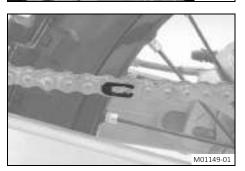
Raise the wheel slightly to be able to remove the screws more easily.



- Press angle lever **4** toward the rear.
- Press linkage lever 6 downward.



Remove screws **6** and pull foot brake cylinder off the push rod.



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



Info

Cover the components to protect them against damage.



- Remove nut and pull out the swingarm pivot.
- Push the link fork back and secure it against falling over.



Hold the shock absorber and remove screw 8.



Remove the shock absorber carefully at the bottom.

11.19 Installing the shock absorber 🔦



Main work

 Carefully position the shock absorber into the vehicle from the bottom.



Mount and tighten screw ①
 Guideline

Screw, top shock	M10	60 Nm (44.3 lbf ft)
absorber		Loctite [®] 2701™



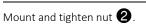
Position the link fork and mount the swingarm pivot.



Guideline

Info

Pay attention to flat area (A).

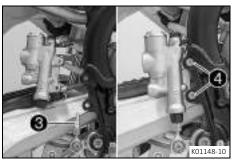


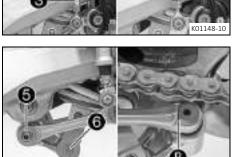
 Nut, fork pivot
 M16x1.5
 100 Nm (73.8 lbf ft)



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

The closed side of the chain joint lock must face in the direction of travel.





- Position the foot brake cylinder.
 - ✓ Push rod **③** engages in the foot brake cylinder.
 - ✓ The dust boot is correctly positioned.
- Mount and tighten screws 4.

Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

- Position the angle lever and linkage lever.
- Mount and tighten fitting **5**.

Guideline

Nut, linkage lever on	M14x1.5	60 Nm (44.3 lbf ft)
angle lever		



Info

Pay attention to flat area **B**.

Mount and tighten screw **6**.

Guideline

Screw, bottom	M10	60 Nm (44.3 lbf ft)
shock absorber		Loctite [®] 2701™



Info

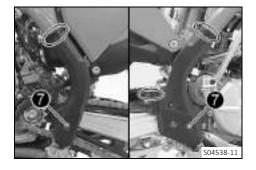
Raise the wheel slightly to be able to mount the screw more easily.



- Position the left frame protector.
- Insert the right frame protector from below and push it to the rear.
- Mount and tighten screws **7** with the washers. Guideline

Screw, frame protector	M5	3 Nm (2.2 lbf ft)

Mount the new cable ties.



Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

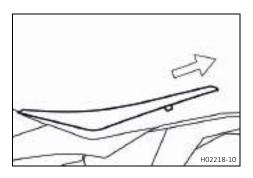
11.20 Removing the seat



Remove screw 1.

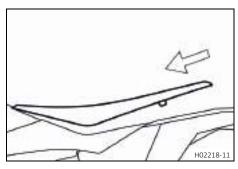


SERVICE WORK ON THE CHASSIS

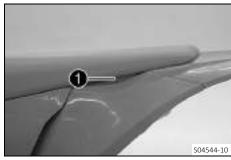


Raise the rear of the seat, pull the seat back, and lift it off.

11.21 Mounting the seat



- Mount the front of the seat on the collar bushing of the fuel tank, lower the seat at the rear, and push the seat forward.
- Make sure that the seat is locked in correctly.



Mount and tighten screw 1. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

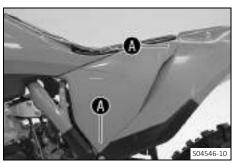
11.22 Removing the air filter box cover

Condition

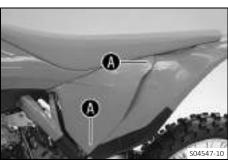
The air filter box cover is secured.

- Remove the seat. (p. 53)
- Remove screw 1.





Pull off the air filter box cover in area A sideways and take off toward the front.

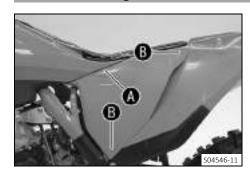


The air filter box cover is not secured.

Pull off the air filter box cover in area **A** sideways and take off toward the front.



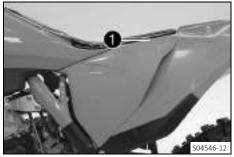
11.23 Installing the air filter box cover



Condition

The air filter box cover is secured.

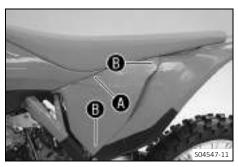
Insert the air filter box cover in area \mathbf{A} and clip it into area \mathbf{B} .



Mount and tighten screw 1. Guideline

Screw, air filter box	EJOT PT°	3 Nm (2.2 lbf ft)
cover	K60x20-Z	

Mount the seat. (p. 54)



Condition

The air filter box cover is not secured.

Insert the air filter box cover in area \mathbf{A} and clip it into area \mathbf{B} .



11.24 Removing the air filter 4

Note

Engine damage Unfiltered intake air has a negative effect on the service life of the engine.

Dust and dirt will enter the engine without an air filter.

Only operate the vehicle if it is equipped with an air filter.



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Preparatory work

Main work

- Detach retaining tab 1. Remove air filter with air filter support.
- Take off air filter from air filter support.

11.25 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 compliance with the applicable regulations.



Info

Do not clean the air filter with fuel or petroleum since these substances attack the foam.



Main work

Preparatory work

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

Air filter cleaner (p. 122)



Info

Only press the air filter to dry it, never wring it out.

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

Remove the air filter box cover. (□ p. 54) Remove the air filter. • (□ p. 56)

Oil for foam air filter (🕮 p. 122)

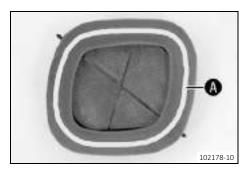
- Clean the air filter box.
- Clean the intake flange and check it for damage and tightness.

56

Finishing work

- Install the air filter. ◄ (♣ p. 57)

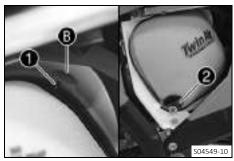
11.26 Installing the air filter 🔦



Main work

- Mount the clean air filter on the air filter support.
- Grease the air filter in area A.

Long-life grease (🕮 p. 122)



- Insert the air filter and position the top retaining pin \bigcirc in bushing \bigcirc .
 - ✓ The air filter is correctly positioned.
- Secure the bottom retaining pin with holding tab $oldsymbol{2}$.



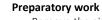
Info

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

Finishing work

– Install the air filter box cover. (p. 55)

11.27 Preparing air filter box cover for securing 4

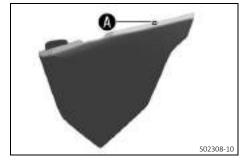


- Remove the air filter box cover. (p. 54)



Drill a hole at marking A.
 Guideline





Finishing work

- Install the air filter box cover. (p. 55)

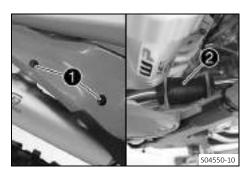
11.28 Removing the main silencer



Warning

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

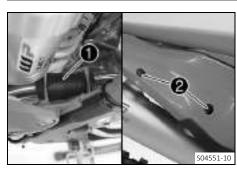
Allow the exhaust system to cool down before performing any work on the vehicle.



- Remove screws 1 with the washers.
- Pull off the main silencer from the manifold at exhaust sleeve 2.



11.29 Installing the main silencer



- Position the main silencer in exhaust sleeve 1.
- Mount and tighten screws **2** with the washers. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

11.30 Changing the glass fiber yarn filling in the main silencer &



Warning

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

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

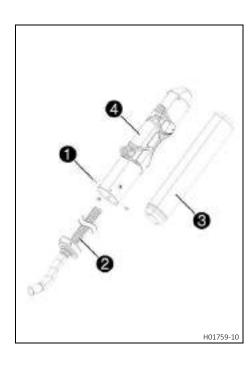


Info

Over time, the fibers of the rock wool escape into the air, and the main silencer "burns out". Not only is the noise level higher, the performance characteristic changes.

Preparatory work

Remove the main silencer. (p. 58)



- Remove screws 1. Pull out inner tube 2.
- Remove the glass fiber yarn filling 3 from the inner tube.
- Clean the parts that need to be reinstalled and check for damage.
- Fit the new glass fiber yarn filling 3 into the inner tube.
- Slide outer tube 4 over the inner tube with the new glass fiber yarn filling.
- Mount and tighten all screws ①.
 Guideline

Screws on main	M5	7 Nm (5.2 lbf ft)
silencer		

Finishing work

– Install the main silencer. (🕮 p. 58)

11.31 Removing the fuel tank 4



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Preparatory work

- Remove the seat. (p. 53)
- Turn the knurled screw on the fuel tap all the way clockwise.



Pull off the fuel hose.



Info

Remaining fuel may flow out of the fuel hose.

Remove screws 1.





- Remove screw **2** with the rubber bushing.
- Pull the fuel tank breather hose off the fuel tank lid.



Pull both spoilers laterally off the radiator and take off the fuel tank

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

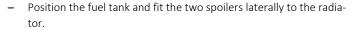


Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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





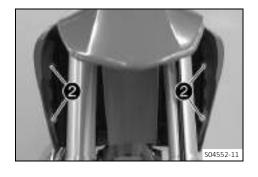






- Attach the fuel tank breather hose.
- Mount and tighten screw with the rubber bushing.
 Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		



Mount and tighten screws 2.
 Guideline

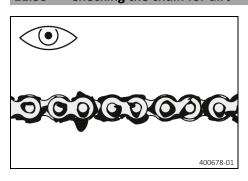
Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

Connect the fuel hose.

Finishing work

- Mount the seat. (p. 54)

11.33 Checking the chain for dirt



- Check the chain for heavy soiling.
 - » If the chain is very dirty:
 - Clean the chain. (p. 62)

11.34 Cleaning the chain



Warning

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

Remove lubricants from the tires using a suitable cleaning agent.



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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



Note

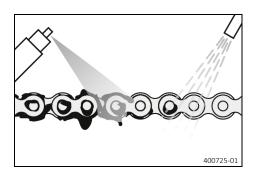
Environmental hazard Hazardous substances cause environmental damage.

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



Info

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



Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)

Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.

Chain cleaner (🕮 p. 122)

After drying, apply chain spray.

Off-road chain spray (🕮 p. 122)

Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

11.35 Checking the chain tension



Warning

Danger of accidents Incorrect chain tension damages components and results in accidents.

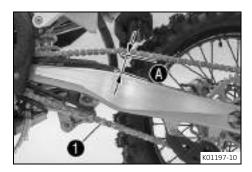
If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

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

Preparatory work

62



Pull the chain at the end of the chain sliding piece upward to measure chain tension A.

Guideline

Lower chain section 1 must be taut.



Info

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension 55 ... 58 mm (2.17 ... 2.28 in)

- » If the chain tension does not meet the specification:

Finishing work

11.36 Adjusting the chain tension



Warning

Danger of accidents Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine 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 engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

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

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)
- Check the chain tension. (p. 62)

Main work

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

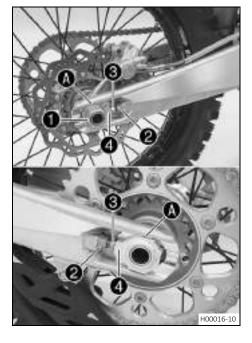
Guideline

Chain tension 55 ... 58 mm (2.17 ... 2.28 in)

Turn adjusting screws 3 on the left and right so that the markings on the left and right chain 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 adjusters 4 are fitted correctly on adjusting screws 3.
- Tighten nut 1.
 Guideline

Guideline		
Nut, rear wheel spindle	M25x1.5	80 Nm (59 lbf ft)



Info

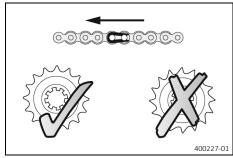
The wide adjustment range of the chain adjusters (32 mm (1.26 in)) enables different secondary ratios with the same chain length.

Chain adjusters 4 can be turned by 180°.

Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

11.37 Checking the chain, rear sprocket, engine sprocket, and chain guide



400227-01

16 17 18

1 2 3

Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)

Main work

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



Info

Weight, chain wear measure-

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

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



– Measure distance **B** of 18 chain rollers in the lower chain section.



ment

Info

Chain wear is not always even, so you should repeat this measurement at different chain positions.

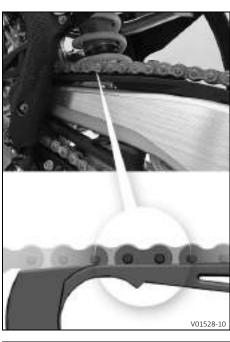
Maximum distance B from	272 mm (10.71 in)
18 chain rollers at the longest	
chain section	

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



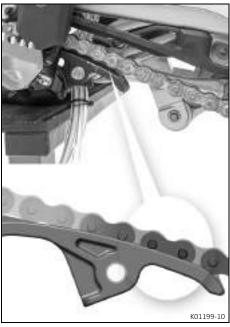
Info

When a new chain is mounted, the rear sprocket and engine sprocket should also be changed. New chains wear out faster on an old, worn rear sprocket or engine sprocket.



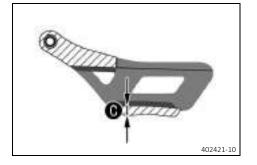
- Check the chain sliding guard for wear.
 - » If the lower edge of the chain pins is in line with, or below, the chain sliding guard:
 - Change the chain sliding guard.
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten screws on the chain sliding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

Screw, chain	M6	6 Nm (4.4 lbf ft)
sliding guard		Loctite [®] 243™

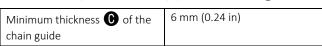


- Check the chain sliding piece for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding piece:
 - − Change the chain sliding piece.
- Check that the chain sliding piece is firmly seated.
 - » If the chain sliding piece is loose:
 - Tighten screw on the chain sliding piece.
 Guideline

Screw, chain sliding	M8	15 Nm (11.1 lbf ft)
piece		



Check the chain guide with a slide gage for dimension ①.



- » If the measured value is less than the specification:
 - Change the chain guide.



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

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)

Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

Fillisilling WOLL

11.38 Checking the frame 4



- Check the frame for damage, cracks, and deformation.
 - » If the frame shows signs of damage, cracks, or deformation:
 - Change the frame. ⁴
 Guideline

Repairs on the frame are not permitted.

4

11.39 Checking the link fork 🔌



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

Repairs on the link fork are not permitted.

4

11.40 Checking throttle cable routing



Warning

Danger of accidents The throttle cable may slip out of the guide if routed incorrectly.

The throttle slide will then no longer be closed and the speed can no longer be controlled.

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

Preparatory work

- Remove the seat. (p. 53)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. 🔌 🕮 p. 59)

66



Check throttle cable routing.

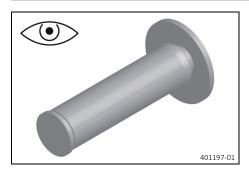
The throttle cable must be routed along the back of the handlebar, to the right of the frame, above the fuel tank bracket, and to the carburetor. The throttle cable must be secured on the fuel tank bracket with a rubber strap.

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

Finishing work

- Install the fuel tank. 🔌 (🕮 p. 60)
- Mount the seat. (
 p. 54)

11.41 Checking the rubber grip



 Check the rubber grips on the handlebar for damage, wear, and looseness.



Info

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

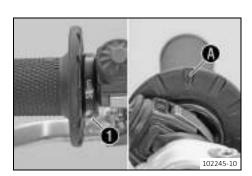
The rubber grip can only be replaced with the sleeve or the throttle tube.

- » If a rubber grip is damaged or worn:
 - Change the rubber grip.
- Check that screw 1 is firmly seated.

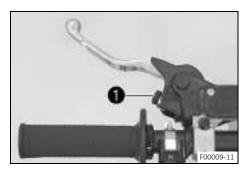
Guideline

Screw, fixed grip	M4	5 Nm (3.7 lbf ft)
		Loctite [®] 243™

Diamond **A** must be located at the top.



11.42 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



Info

Turn the adjusting screw counterclockwise to decrease the distance between the clutch lever and the handlebar. Turn the adjusting screw clockwise to increase the distance between the clutch lever and the handlebar. The range of adjustment is limited.

Turn the adjusting screw by hand only, and do not apply any

Do not make any adjustments while riding.

11.43 Checking/correcting the fluid level of the hydraulic clutch



Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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
- If brake fluid spills on to your clothing, change the clothing.



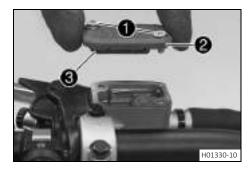
Info

The fluid level rises with increasing wear of the clutch facing discs.

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and clutch lines are not designed for DOT 5 brake fluid.

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

Only use clean brake fluid from a sealed container.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.



Remove cover **2** with membrane **3**.



Check the fluid level.

Fluid level below container rim	4 mm (0.16 in)

- If the fluid level does not meet specifications:
 - Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 / DOT 5.1 (p. 120)

Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilled brake fluid immediately with

11.44 Changing the hydraulic clutch fluid 4



Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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
 eves.
- 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 compliance with the applicable regulations.

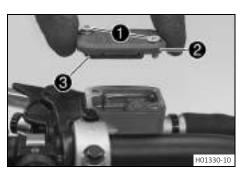


Info

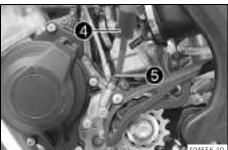
Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and clutch lines are not designed for DOT 5 brake fluid.

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

Only use clean brake fluid from a sealed container.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover **2** with membrane **3**.

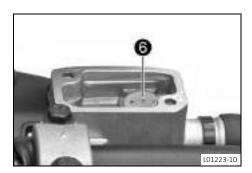


Fill bleeding syringe 4 with the appropriate hydraulic fluid.

Syringe (50329050000)

Brake fluid DOT 4 / DOT 5.1 (p. 120)

On the clutch slave cylinder, remove bleeder screw **6** and mount bleeding syringe **4**.



- Now inject the liquid into the system until it emerges from the drill hole 6 of the master cylinder without bubbles.
- Now and then, extract fluid from the master cylinder reservoir to prevent overflow.
- Remove the bleeding syringe. Mount and tighten screws bleeder screw.
- Correct the fluid level of the hydraulic clutch.
 Guideline

Fluid level below container rim 4 mm (0.16 in)

 Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilled brake fluid immediately with water.

4

12.1 Checking the free travel of the hand brake lever

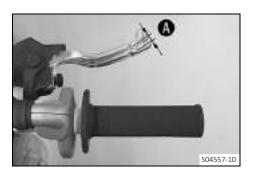


Warning

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

If there is no free travel on the hand brake lever, pressure builds up on the front brake circuit.

- Set the free travel on the hand brake lever in accordance with the specification.



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 match the specification:
 - Adjust the basic position of the hand brake lever. (p. 71)

12.2 Adjusting the basic position of the hand brake lever



- Check the free travel of the hand brake lever. (p. 71)
- Adjust the basic position of the hand brake lever to your hand size by turning adjusting screw 1.



Info

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.

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

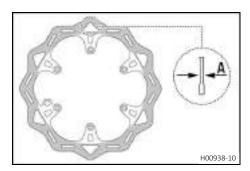
12.3 Checking the brake discs



Warning

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

Make sure that worn-out brake discs are replaced immediately. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Check the front and rear brake disc thickness at multiple points for the dimension \mathbf{A} .



Wear reduces the thickness of the brake disc around the contact surface of the brake linings.

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

If the brake disc thickness is less than the specified value:

- Change the front brake disc.
- Change the rear brake disc.
- Check the front and rear brake discs for damage, cracking, and deformation.
 - » If the brake disc exhibits damage, cracking, or deformation:
 - Change the front brake disc.
 - Change the rear brake disc.

12.4 Checking the front brake fluid level



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 is leaking or the brake linings are worn down.

- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized GAS-GAS Motorcycles workshop will be glad to help.)



Warning

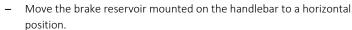
Danger of accidents Old brake fluid reduces the braking effect.

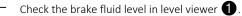
Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
 (Your authorized GASGAS Motorcycles workshop will be glad to help.)

Preparatory work

- Check the front brake linings. (p. 74)

Main work

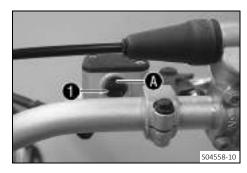






» If the brake fluid level has dropped below the marking $oldsymbol{A}$:

Add front brake fluid. ♣ (♣ p. 72)



12.5 Adding front brake fluid 4



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 is leaking or the brake linings are worn down.

Check the brake system and do not continue riding until the problem is eliminated. (Your authorized GAS-GAS Motorcycles workshop will be glad to help.)

72

Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
 (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Info

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

Only use clean brake fluid from a sealed container.

Preparatory work

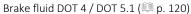
- Check the front brake linings. (p. 74)

Main work

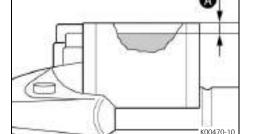
- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
 - Take off cover $oldsymbol{2}$ with membrane $oldsymbol{3}$.
- Add brake fluid to level A.

Guideline





 Position the cover with the membrane. Mount and tighten the screws.





Info

Clean up overflowed or spilled brake fluid immediately with water.

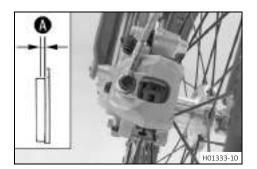
12.6 Checking the front brake linings



Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

Ensure that worn-out brake linings are replaced immediately. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Check the brake linings for minimum thickness **A**.



Minimum thickness A

≥ 1 mm (≥ 0.04 in)

- If the minimum thickness is less than specified:
 - Change the brake linings of the front brake. ◄ (□ p. 74)
- Check the brake linings for damage and cracking.
 - If damage or wear is encountered:
 - Change the brake linings of the front brake. ◀ (🕮 p. 74)

12.7 Changing the brake linings of the front brake &



Warning

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

Ensure that service work and repairs are performed professionally. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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

Warning

Danger of accidents Brake linings which have not been approved alter the braking efficiency.

Not all brake linings are tested and approved for GASGAS motorcycles. The structure and friction coefficient of the brake linings, and thus their brake power, may vary greatly from that of original brake linings. If brake linings are used that differ from the original equipment, compliance with the original homologation is not guaranteed. In this case, the vehicle no longer corresponds to its condition at delivery and the warranty shall be

- Only use brake linings approved and recommended by GASGAS Motorcycles.



Note

Environmental hazard Hazardous substances cause environmental damage.

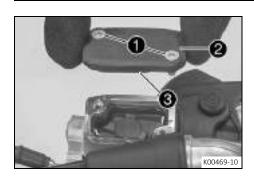
Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



Info

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

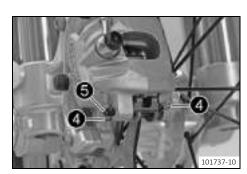


- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Take off cover 2 with membrane 3.
- Manually press the brake caliper toward the brake disc to push back the brake pistons. Ensure that brake fluid does not flow out of the brake fluid reservoir, extract some if necessary.

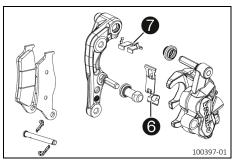


Info

Make sure that you do not press the brake caliper against the spokes when pushing back the brake pistons.



- Remove cotter pins 4, pull out pin 5, and remove the brake linings.
- Clean the brake caliper and the brake caliper bracket.



Check that spring plate 6 in the brake caliper and sliding plate 7 in the brake caliper bracket are seated correctly.



Insert the new brake linings, insert pin, and mount cotter pins.



Info

Always change the brake linings in pairs.

 Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.



Correct the brake fluid level to level **A**.
Guideline

Level (A) (brake fluid level	5 mm (0.2 in)
below reservoir rim)	

Brake fluid DOT 4 / DOT 5.1 (🕮 p. 120)

 Position the cover with the membrane. Mount and tighten the screws.



nfo

Use water to immediately clean up any brake fluid that has overflowed or spilled.

12.8 Checking the free travel of foot brake lever

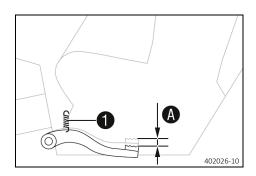


Warning

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

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.



- Disconnect spring 1.
- Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel (\mathbf{A}) .

Guideline

Free travel at foot brake lever 3 ... 5 mm (0.12 ... 0.2 in)

- » If the free travel does not meet specifications:
 - Adjust the basic position of the foot brake lever. ⁴
 (□ p. 77)
- Reconnect spring 1.

•

12.9 Adjusting the basic position of the foot brake lever

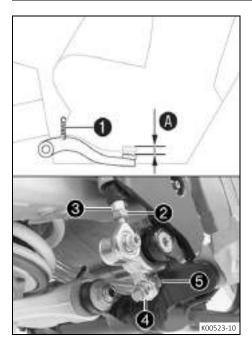


Warning

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

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.



- Detach spring 1.
- Loosen nut **2** and, with push rod **3**, turn it back until you have maximum free travel.
- To adjust the basic position of the foot brake lever to individual requirements, loosen nut 4 and turn screw 5 accordingly.



Info

The range of adjustment is limited.

Turn push rod **3** accordingly until you have free travel **A**. If necessary, adjust the basic position of the foot brake lever.

Guideline

Free travel at foot brake lever	3 5 mm (0.12 0.2 in)

Hold screw **5** and tighten nut **4**.
Guideline

Nut, foot brake lever	M8	20 Nm (14.8 lbf ft)
stop		

Hold push rod 3 and tighten nut 2.
 Guideline

Remaining nuts, chas-	M6	10 Nm (7.4 lbf ft)
sis		

Attach spring 1

4

12.10 Checking the rear brake fluid level



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 is leaking or the brake linings are worn down.

Check the brake system and do not continue riding until the problem is eliminated. (Your authorized GAS-GAS Motorcycles workshop will be glad to help.)



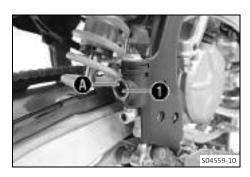
Warning

Danger of accidents Old brake fluid reduces the braking effect.

Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
 (Your authorized GASGAS Motorcycles workshop will be glad to help.)

Preparatory work

- Check the brake linings of the rear brake. (p. 79)



Main work

- Stand the vehicle upright.
- Check the brake fluid level in level viewer 1.
 - If the brake fluid has dropped below marking $oldsymbol{A}$:
 - Add rear brake fluid. 🔌 🕮 p. 78)

12.11 Adding rear brake fluid 🔦



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 is leaking or the brake linings are worn down.

Check the brake system and do not continue riding until the problem is eliminated. (Your authorized GAS-GAS Motorcycles workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
 (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Info

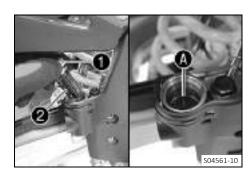
Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

Only use clean brake fluid from a sealed container.

Preparatory work

- Check the brake linings of the rear brake. (p. 79)



Main work

- Stand the vehicle upright.
- Remove screw cap 1 with membrane 2 and the O-ring.
- Add brake fluid to level **A**.

Brake fluid DOT 4 / DOT 5.1 (p. 120)

Mount the screw cap with the membrane and the O-ring.



Info

Clean up overflowed or spilled brake fluid immediately with water.

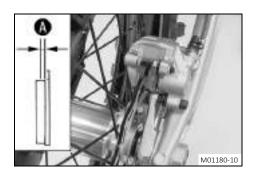
12.12 Checking the brake linings of the rear brake



Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

Ensure that worn-out brake linings are replaced immediately. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Check the brake linings for minimum thickness (A)



Minimum thickness **A**

≥ 1 mm (≥ 0.04 in)

- If the minimum thickness is less than specified:
- Check the brake linings for damage and cracking.
 - If damage or wear is encountered:
 - Change the rear brake linings. 🔌 (🕮 p. 79)

Changing the rear brake linings 🔦 12.13



Warning

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

- Ensure that service work and repairs are performed professionally. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- 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 swallowed.
- 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
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

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



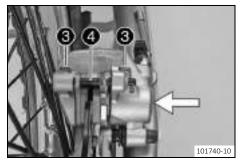
Info

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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



- Position the vehicle upright.
- Remove screw cap **1** with membrane **2** and the O-ring.



 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 fluid reservoir; extract some if necessary.



Info

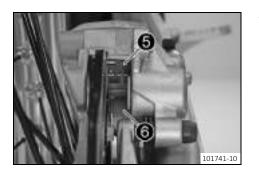
Make sure that you do not press the brake caliper against the spokes when pushing back the brake piston.

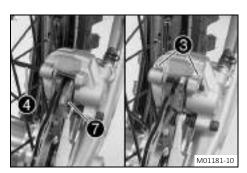
- Remove cotter pins 3, pull out pin 4, and remove the brake linings.
- Clean the brake caliper and the brake caliper bracket.
- Check that spring plate **5** in the brake caliper and sliding plate **6** in the brake caliper bracket are seated properly.

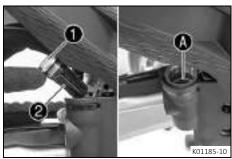


Info

The arrow on the spring plate points in the direction of rotation of the brake disc.







Insert the new brake linings, insert pin 4, and mount cotter pins 3.



Info

Always change the brake linings in pairs.

Make sure that decoupling plate is mounted on the piston side brake lining.

- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.
- Add brake fluid to level A.

Brake fluid DOT 4 / DOT 5.1 (p. 120)

Mount and tighten screw cap with membrane and the O-ring.

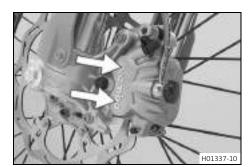


Info

Use water to immediately clean up any brake fluid that has overflowed or spilled.

4

13.1 Removing the front wheel 🔦



Preparatory work

- Raise the motorcycle with a lift stand. (p. 42)

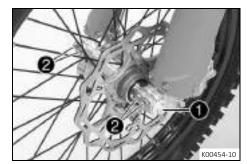
Main work

 Manually press the brake caliper toward the brake disc to push back the brake pistons.



Info

Make sure that you do not press the brake caliper against the spokes when pushing back the brake pistons.



- Loosen screw 1 by several rotations.
- Loosen screws **2**
- Press on screw 1 to push the wheel spindle out of the axle clamp.
- Remove screw 1





Warning

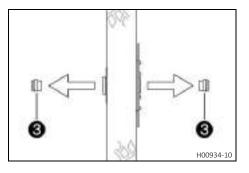
Danger of accidents Damaged brake discs reduce the braking effect.

- Always lay the wheel down in such a way that the brake disc is not damaged.
- Hold the front wheel and remove the wheel spindle. Take the front wheel out of the fork.



Info

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



Remove spacers **3**.

4

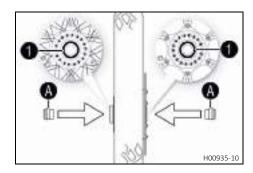
13.2 Installing the front wheel &



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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

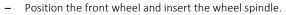


- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change front wheel bearing.
- Clean and grease shaft seal rings 1 and contact surfaces A of the

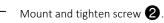
Long-life grease (🕮 p. 122)

- Insert the spacers.
- Clean and grease the wheel spindle.

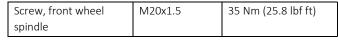
Long-life grease (p. 122)



✓ The brake linings are correctly positioned.







- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (p. 42)
- Operate the front brake and compress the fork a few times firmly.
 - ✓ The fork legs straighten.
- Tighten screws **3**.



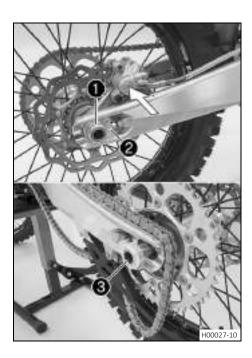
Guideline			
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	



13.3 Removing the rear wheel &

Preparatory work

Raise the motorcycle with a lift stand. (p. 42)



Main work

 Manually press the brake caliper toward the brake disc to push back the brake piston.



Info

Make sure that you do not press the brake caliper against the spokes when pushing back the brake piston.

- Remove nut 1.
- Take off chain 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.



Info

Cover the components to protect them against damage.



Warning

Danger of accidents Damaged brake discs reduce the braking effect.

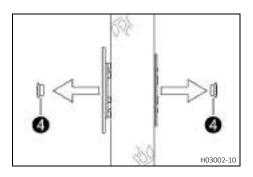
- Always lay the wheel down in such a way that the brake disc is not damaged.
- Hold the rear wheel and remove the wheel spindle. Take the rear wheel out of the link fork.



Info

Do not operate the foot brake lever when the rear wheel is removed.

Remove spacers 4.



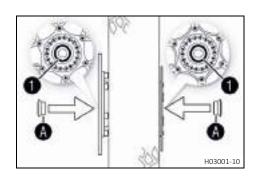
13.4 Installing the rear wheel 🔧



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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



Main work

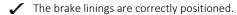
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
- Clean and grease shaft seal rings 1 and contact surfaces 1 of the spacers.

Long-life grease (🕮 p. 122)

- Insert the spacers.
- Clean and grease the wheel spindle.

Long-life grease (🕮 p. 122)





Mount the chain.



- Position chain adjuster 3. Mount nut 4, but do not tighten it yet.
- Make sure that chain adjusters 3 are fitted correctly on adjusting screws 5.
- Check the chain tension. (p. 62)
- Tighten nut 4.

Guideline

Nut, rear wheel spindle M25x1.5 80 Nm (59 lbf ft)

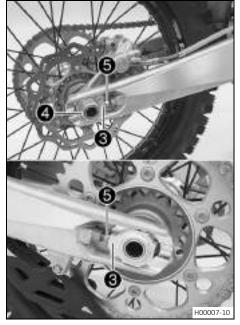


Info

The wide adjustment range of the chain adjusters (32 mm (1.26 in)) enables different secondary ratios with the same chain length.

Chain adjusters 3 can be turned by 180°.

 Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.



Finishing work

- Remove the motorcycle from the lift stand. (p. 42)

13.5 Checking the tire condition



Info

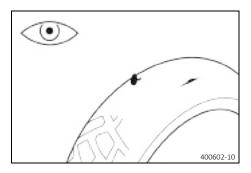
Only mount tires approved and/or recommended by GASGAS Motorcycles.

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 characteristic 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.



- 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.



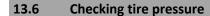
Check the tire age.



Info

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. GASGAS Motorcycles recommends that the tires be changed after five years at the latest, regardless of the actual wear.

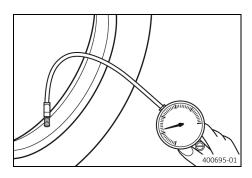
- » If the tires are more than five years old:
 - Change the tires.





Info

Low tire pressure leads to abnormal wear and overheating of the tire. 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.

Offroad	tire pressure	
fron	t	1.0 bar (15 psi)
rear		1.0 bar (15 psi)

- » If the tire pressure does not meet specifications:
 - Correct the tire pressure.
- Mount the protection cap.

_

13.7 Checking spoke tension

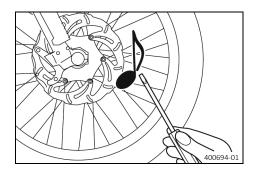


Warning

Danger of accidents Incorrectly tensioned spokes impair the handling characteristic and result in secondary damage.

The spokes break due to being overloaded if they are too tightly tensioned. If the tension in the spokes is too low, then lateral and radial run-out will form in the wheel. Other spokes will become looser as a result.

- Check spoke tension regularly, and in particular on a new vehicle. (Your authorized GASGAS Motorcycles workshop will be glad to help.)



Strike each spoke briefly using a screwdriver blade.



Info

The frequency of the sound depends on the spoke length and spoke diameter.

If you hear different tone frequencies from different spokes of equal length and diameter, this is an indication of different spoke tensions.

You should hear a high note.

- » If the spoke tension differs:
 - Correct the spoke tension. ⁴
- Check the spoke torque.

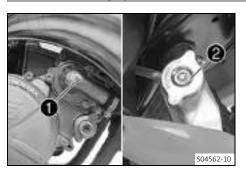
Guideline

Spoke nipple, front wheel	M4.5	6 Nm (4.4 lbf ft)
Spoke nipple, rear wheel	M4.5	6 Nm (4.4 lbf ft)

Torque wrench kit (58429094000)

•

14.1 Cooling system



Water pump 1 in the engine ensures forced circulation of 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 °F)

Cooling is effected by the air stream.

The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect.

14.2 Radiator cover



Info

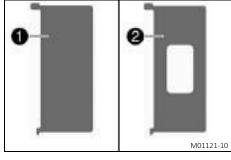
Do not use radiator covers in difficult operating conditions.

The radiator cover is mounted in front of the left radiator between the radiator shield and radiator.

The radiator cover keeps the coolant temperature in the correct range.

Coolant temperature 65 ... 70 °C (149 ... 158 °F)





The radiator cover is installed in front of the left radiator, depending on the ambient temperature.

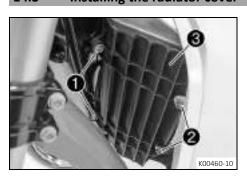
Full radiator cover 1	< 7 °C (< 45 °F)
Half radiator cover 2	7 16 °C (45 61 °F)
No radiator cover	> 16 °C (> 61 °F)



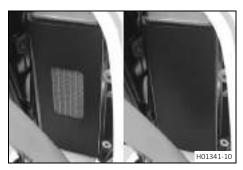
Info

Do not use both radiator covers at the same time.

14.3 Installing the radiator cover



- Remove screws ①.
- Remove screws **2** .
- Take off radiator shield **3**.



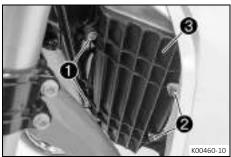
Position the matching radiator cover (p. 88).

✓ The larger holding lug is located at the top left.



Info

Do not use both radiator covers at the same time.



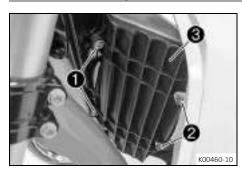
- Position radiator shield **3**.
- Mount and tighten screws **2**. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

Mount and tighten screws 1. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

14.4 Removing the radiator cover



- Remove screws 1.
- Remove screws 2.
- Take off radiator shield **3**.
- Remove the radiator cover.
- Position radiator shield **3**.
- Mount and tighten screws **2**. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

Mount and tighten screws 1. Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

14.5 Checking the antifreeze and coolant level



Warning

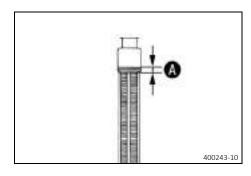
Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.

Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.



Condition

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the coolant antifreeze.

- » If the antifreeze in the coolant does not match the specified value:
 - Correct the coolant antifreeze.
- 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 match the specified value:
 - Correct the coolant level.

Coolant (🕮 p. 120)

- Mount the radiator cap.

14.6 Checking the coolant level



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.



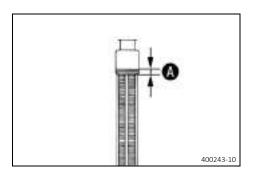
Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.



- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the coolant level in the radiator.

Coolant level A above the	10 mm (0.39 in)
radiator fins	

- » If the coolant level does not match the specified value:
 - Correct the coolant level.

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Coolant (🕮 p. 120)
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Mount the radiator cap.

14.7 Draining the coolant 🔦



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- 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.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

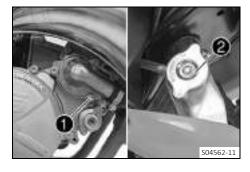
- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

- Position 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 and tighten screw with a new seal ring.
 Guideline

Drain plug, water	M6	10 Nm (7.4 lbf ft)
pump cover		



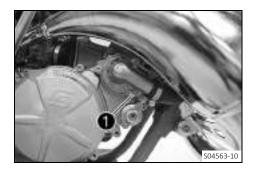
14.8 Refilling with coolant &



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.



- Make sure that screw 1 is tightened.
- Position the motorcycle upright.
- Completely fill the radiator with coolant.

Coolant (p. 120)



- Loosen screw 2 until coolant escapes without bubbles.
- Mount and tighten screw 2.

Guideline

Bleeder screw, cylinder	M6	8 Nm (5.9 lbf ft)
head		

Completely fill the radiator with coolant.

Coolant (p. 120)



Mount radiator cap 3.



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Allow the engine to warm up and cool down again.
- Check the coolant level. (🕮 p. 90)

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14.9 Changing the coolant &



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

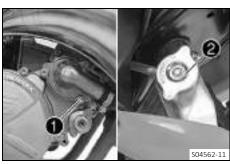
- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.



Condition

The engine is cold.

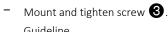
- Remove screw 1. Take off radiator cap 2.
- Place an appropriate container under the water pump cover.
- Completely drain the coolant.
- Mount and tighten screw 1 with a new seal ring. Guideline

Screw, water pump	M6	10 Nm (7.4 lbf ft)
cover		

- Position the motorcycle upright.
- Completely fill the radiator with coolant.

Coolant (p. 120)





Guideline			
Bleeder screw, cylinder	M6	8 Nm (5.9 lbf ft)	
head			

Completely fill the radiator with coolant.

Coolant (p. 120)







- Mount radiator cap **2** .



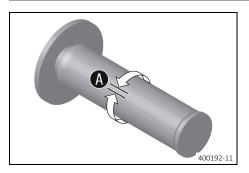
Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Allow the engine to warm up and cool down again.
- Check the cooling system for leaks.

4

15.1 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 grip back and forth slightly and determine the play in throttle cable (A).

Play in throttle cable

2 ... 3 mm (0.08 ... 0.12 in)

- » If the throttle cable play does not meet the specified value:
 - Adjust throttle cable play. ◀ (IPP) p. 95)



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Start the engine and let it run at idle speed. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

- » If the idle speed changes:
 - Adjust throttle cable play. ⁴ (🕮 p. 95)

15.2 Adjusting throttle cable play 4



Info

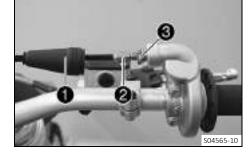
If the correct routing of the throttle cable has already been secured, the fuel tank does not need to be removed.

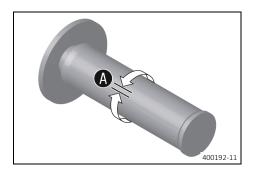
Preparatory work

- Remove the seat. (♣ p. 53)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. ❖ (🕮 p. 59)
- Check throttle cable routing. (p. 66)

Main work

- Move the handlebar to the straight-ahead position.
- Push back sleeve 1
- Ensure that the throttle cable sleeve is pushed all the way into barrel adjuster **2**.
- Loosen nut **3**.





Turn barrel adjuster ② so that there is play ⑥ in the throttle cable at the throttle grip.

Guideline

Play in throttle cable 2 ... 3 mm (0.08 ... 0.12 in)

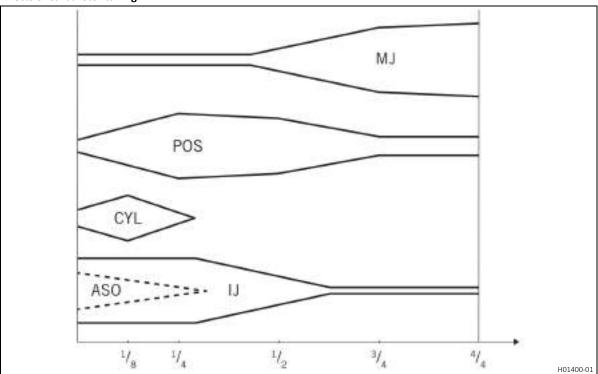
- Tighten nut 3.
- Slide on sleeve 1

Finishing work

- Check the throttle grip for smooth operation.
- Install the fuel tank. 🔌 (🕮 p. 60)
- Mount the seat. (🕮 p. 54)
- Check the play in the throttle cable. (p. 95)

15.3 Carburetor tuning

Effects of carburetor tuning



The different carburetor components must be tuned both to one another and for the use intended.

Main jet MJ

The main jet MJ has the greatest influence with the throttle slide open (full throttle).

If the insulator of a new spark plug is very light or white after a brief ride at full throttle, or if the engine knocks, a larger main jet needs to be used. If the insulator is dark brown or sooty, a smaller main jet needs to be used.

Needle position POS

The needle position has the greatest influence in the mid throttle slide range.

If the engine stutters when accelerating with a partially open throttle slide, the jet needle must be lowered. If the engine knocks when accelerating at the full power rpm range, the jet needle must be raised.

Cylindrical part of the needle CYL

The cylindrical part of the needle has the greatest influence when the throttle slide is almost closed.

•

Idling jet IJ

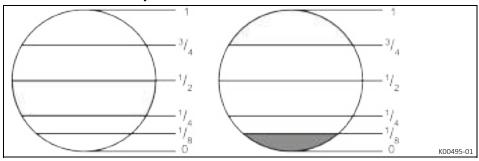
The idling jet has the greatest influence in the low to mid throttle slide range.

If the engine stutters at idle speed or when accelerating with a partially open throttle slide, a smaller idling jet must be used. If the engine knocks in this power range, then a larger idling jet must be used.

Idle air adjusting screw open ASO

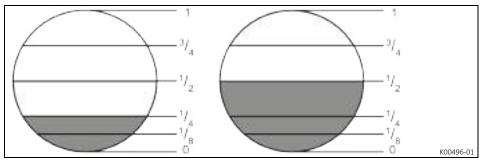
The idle air adjusting screw has the greatest influence at idle speed.

Influence of throttle slide adjustment



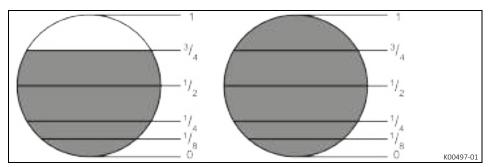
The idling jet has the greatest influence when the throttle slide is closed. The first cylindrical part of the needle and the clip position have only minimal influence.

When the throttle slide is 1/8 open, the first cylindrical part of the needle, the idling jet and the clip position have the greatest influence.



When the throttle slide is 1/4 open, the idling jet and the clip position have the greatest influence. The influence of the first cylindrical part of the needle is less.

When the throttle slide is 1/2 open, the position of the needle has the greatest influence. The influence of the main jet and the idling jet is only minimal.



When the throttle slide is 3/4 open, the influence of the main jet is greatest. The clip position and the idling jet have only minimal influence.

When the throttle slide is fully open, the influence of the main jet is greatest. The clip position and the idling jet have only minimal influence.

Needle overview

The jet needles available are shown in the following table.

	1	2	3	4
A	6BFY42-71	6BFY43-71	6BFY44-71	2,71 mm
В	6BFY42-72	6BFY43-72	6BFY44-72	2.72 mm
C	6BFY42-73	6BFY43-73	6BFY44-73	2.73 mm
D	6BFY42-74	6BFY43-74	6BFY44-74	2.74 mm
E	6BFY42-75	6BFY43-75	6BFY44-75	2.75 mm
F	6BFY42-76	6BFY43-76	6BFY44-76	2.76 mm
7	OB1142-70	OB1143-70	OBF 194-70	2.7

Column 2 corresponds to a needle in the standard position.

Column 1 corresponds to a needle which is half a clip leaner.

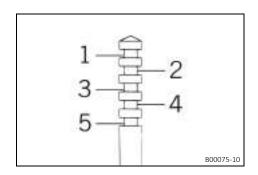
Column 3 corresponds to a needle which is half a clip richer.

Column 4 specifies the diameter of the first cylindrical part of the needle. The smaller the diameter of the first cylindrical part of the needle, the richer the mixture preparation. The larger the diameter of the first cylindrical part of the needle, the leaner the mixture preparation. The first cylindrical part of the needle has the greatest influence in the lowest load range.



Info

The top right jet needle A3 corresponds to the richest setting of the carburetor, and the bottom left jet needle F1 corresponds to the leanest. The optimal carburetor tuning is shown under the respective model.



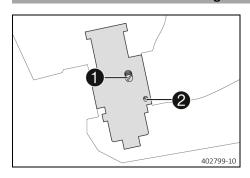
Clip position

1 5	Clip position from above
-----	--------------------------

The five possible clip positions are shown here.

The carburetor tuning depends on the defined ambient and operating conditions.

15.4 Carburetor - idle setting



The idle setting of the carburetor significantly influences the vehicle's starting behavior, the stability of the idle speed, and the vehicle's response when accelerating. This means that an engine with a correctly set idle speed will be easier to start than one with an incorrectly set idle speed.



Info

The carburetor and its components are subject to increased wear caused by engine vibration. Wear can result in malfunctioning.

The factory setting for the carburetor is set for the following values.

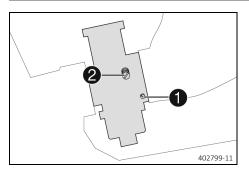
Height above sea level	301 750 m (988 2,461 ft)	
Ambient temperature	16 24 °C (61 75 °F)	
Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40)		
(E p. 121)		

The idle speed is adjusted with adjusting screw 1.

The idle mixture is adjusted using the idle air adjusting screw 2.



15.5 Carburetor - adjusting the idle speed 4



Screw in idle air adjusting screw 1 all the way and turn it to the specified basic setting.



Info

The basic adjustment is shown under the respective model.

- Run the engine until warm.

Guideline

Warming-up phase ≥ 5 min



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Adjust the idle speed with adjusting screw 2.
 Guideline

- Turn idle air adjusting screw slowly in a clockwise direction until the idle speed begins to fall.
- Note the position and turn the idle air adjusting screw slowly counterclockwise until the idle speed again begins to fall.
- Adjust to the point between these two positions with the highest idle speed.



Info

If there is a big engine speed rise, reduce the idle speed to a normal level and repeat the above steps.

If the procedure described here does not lead to satisfactory results, the cause may be a wrongly dimensioned idling jet. If you can turn the idle air adjusting screw to the end without any change of engine speed, mount a smaller idling jet. After changing the jet, start from the beginning with the adjusting steps.

Following extreme air temperature or altitude changes, adjust the idle speed again.

4

15.6 Plug-in connector of ignition timing map adjustment



Plug-in connector 1 of the ignition timing map adjustment is located on the frame under the fuel tank.

Possible states

- Soft The plug-in connector of the ignition timing map adjustment is disconnected to achieve better rideability.
- Performance The plug-in connector of the ignition timing map adjustment is joined to achieve higher performance.

15.7 Changing the ignition timing map

Switching the ignition timing map from Performance to Soft

- − Disconnect plug-in connector **1** of the ignition timing map adjustment. (Figure S04566-10 🕮 p. 100)
 - ✓ Soft better rideability

Switching the ignition timing map from Soft to Performance

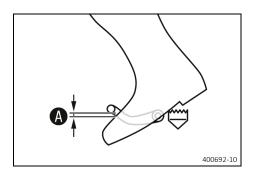
- Join plug-in connector 1 of the ignition timing map adjustment. (Figure S04566-10 🕮 p. 100)
 - ✓ Performance better performance

15.8 Checking the basic position of the shift lever

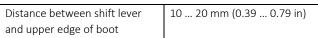


Info

When driving, the shift lever must not touch the rider's boot when in the basic position. When the shift lever keeps touching the boot, the transmission will be subject to an excessive load.

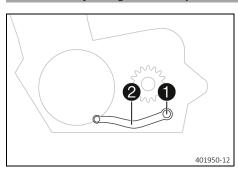


Sit on the vehicle in the riding position and determine distance A between the upper edge of your boot and the shift lever.

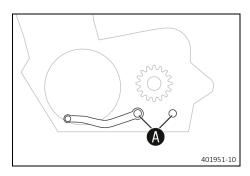


- » If the distance does not meet specifications:
 - Adjust the basic position of the shift lever. **◄** (p. 100)

15.9 Adjusting the basic position of the shift lever 4



Remove screw 1 with the washers and take off shift lever 2.



- Clean gear teeth A of the shift lever and shift shaft.
- Mount the shift lever on the shift shaft in the required position and engage gearing.



Info

The range of adjustment is limited.

The shift lever must not come into contact with any other vehicle components during the shift procedure.

Mount and tighten screw with the washers.

Guideline

Screw, shift lever	M6	14 Nm (10.3 lbf ft)
,		Loctite [®] 243™

•

16.1 **Emptying the carburetor float chamber**



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Note

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

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



Info

Carry out work with a cold engine.

Water in the float chamber results in malfunctioning.



Preparatory work

- Turn the knurled screw on the fuel tap all the way clockwise.
 - ✓ Fuel no longer flows from the fuel tank to the carburetor.



Main work

- Place a cloth under the carburetor to capture the draining fuel.
- Remove screw plug 1.
 - Fully drain the fuel.
- Mount and tighten the screw plug.

16.2 Checking the gear oil level



Info

The gear oil level must be checked when the engine is cold.



Preparatory work

- Stand the motorcycle upright on a horizontal surface.

Main work

- Remove gear oil level monitoring screw 1.
 - Check the gear oil level.

A small quantity of gear oil must run out of the drilled hole.

- » If no gear oil runs out:
 - Add the gear oil. ◀ (♠ p. 104)
- Mount and tighten the gear oil level monitoring screw.
 Guideline

Screw, gear oil level	M6	8 Nm (5.9 lbf ft)
monitoring		

16.3 Changing the gear oil 🔦



Warning

Danger of scalding Engine and gear oil get very hot when the motorcycle is ridden.

- 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 compliance with the applicable regulations.

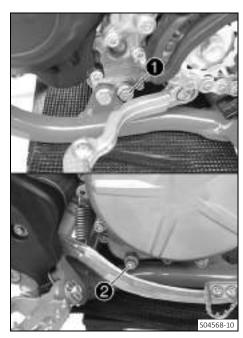


Info

Drain the gear oil while the engine is at operating temperature.

Preparatory work

- Park the motorcycle on a level surface.
- Position an appropriate container under the engine.





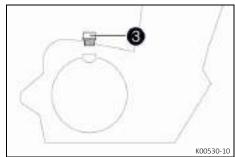
- Remove gear oil drain plug 1 with magnet.
 - Remove gear oil drain plug **2**.
- Let the gear oil drain fully.
- Thoroughly clean the gear oil drain plug.
- Clean the sealing surface on the engine.
- Mount and tighten gear oil drain plug with the magnet and a new seal ring.
 Guideline

Gear oil drain plug with	M12x1.5	20 Nm (14.8 lbf ft)
magnet		

Mount and tighten gear oil drain plug **2** with a new seal ring.

Guideline

Gear oil drain plug	M10x1	15 Nm (11.1 lbf ft)



Remove filler plug **3** with the O-ring, and fill up with gear oil.

Gear oil	0.80 l (0.85 qt.)	Engine oil (15W/50)
		(🕮 p. 120)

Mount and tighten the filler plug together with the O-ring.



Danger

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

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

Finishing work

– Check the gear oil level. (≅ p. 103)

16.4 Adding the gear oil 🔦



Info

Too little gear oil or poor-quality gear oil results in premature wear to the transmission. Gear oil must only be topped up when the engine is cold.

Preparatory work

Park the motorcycle on a level surface.

104

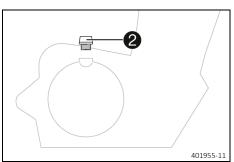




Main work

Remove gear oil level monitoring screw 1.





- Remove filler plug **2** with the O-ring.
- Add gear oil until it emerges from the drill hole of the gear oil level monitoring screw.

Engine oil (15W/50) (p. 120)

Mount and tighten the gear oil level monitoring screw. Guideline

Screw, gear oil level	M6	8 Nm (5.9 lbf ft)
monitoring		

Mount and tighten filler plug **2** with the O-ring.

Finishing work



Danger

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

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

17.1 Cleaning the motorcycle

Note

Material damage Components become damaged or destroyed if a pressure cleaner is used incorrectly.

The high pressure forces water into the electrical components, connectors, throttle cables, and bearings, etc. Pressure which is too high causes malfunctions and destroys components.

- Do not direct the water jet directly on to electrical components, connectors, throttle cables or bearings.
- Maintain a minimum distance between the nozzle of the pressure cleaner and the component.
 Minimum clearance
 60 cm (23.6 in)



Note

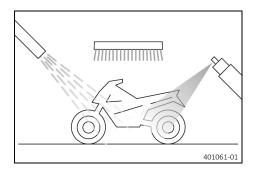
Environmental hazard Hazardous substances cause environmental damage.

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



Info

To maintain the value and appearance of the motorcycle over a long period, clean it regularly. Avoid direct sunshine when cleaning the motorcycle.



- Close off exhaust system to keep water from entering.
- Remove the coarse dirt particles with a gentle water jet.
- Spray the heavily soiled parts with a normal commercial motorcycle cleaner and clean using a brush.

Motorcycle cleaner (p. 122)



Info

Use warm water containing normal motorcycle cleaner and a soft sponge.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Empty the carburetor float chamber. ◄ (□ p. 102)
- Remove the closure of 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 linings and the brake discs.
- After cleaning, ride the vehicle a short distance until the engine warms up.



Info

The heat produced causes water at inaccessible locations in the engine and on the brake system to evaporate.

- After the motorcycle has cooled down, lubricate all moving parts and pivot points.
- Clean the chain. (p. 62)

 Treat bare metal (except for brake discs and the exhaust system) with a corrosion inhibitor.

Preserving materials for paints, metal and rubber (p. 122)

 Treat all plastic parts and powder-coated parts with a mild cleaning and care product.

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (p. 122)

18.1 Storage



Warning

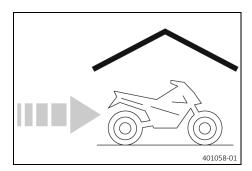
Danger of poisoning Fuel is poisonous and a health hazard.

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



Info

If you plan to garage the motorcycle for a longer period, perform the following steps or have them performed. Before storing the motorcycle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (less workshop overload). In this way, you can avoid long workshop waiting times at the start of the new season.



 When refueling for the last time before taking the motorcycle out of service, add fuel additive.

Fuel additive (🕮 p. 122)

- Refuel. (I p. 28)
- Clean the motorcycle. (p. 106)
- Change the gear oil. ❖ (♠ p. 103)
- Check the antifreeze and coolant level. (
 p. 89)
- Empty the carburetor float chamber. ◄ (□ p. 102)
- Check tire pressure. (p. 86)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.



Info

GASGAS Motorcycles recommends jacking up the motorcycle.

- Raise the motorcycle with a lift stand. (p. 42)
- Cover the vehicle with a tarp or a similar cover that is permeable to air.

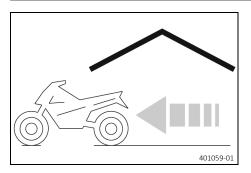


Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion.

Avoid running the engine for a short time only. Because the engine will not warm up sufficiently, the water vapor produced during combustion will condense, causing engine parts and the exhaust system to rust.

18.2 Preparing for use after storage



- Remove the motorcycle from the lift stand. (🕮 p. 42)
- Perform checks and maintenance measures when preparing for use.
 (p. 25)
- Take a test ride.

4

Faults	Possible cause	Action
Engine overheats	Too little coolant in cooling system	 Check the cooling system for leakage.
		– Check the coolant level. (🕮 p. 90)
	Too little air stream	 Switch off engine when stationary.
	Radiator fins very dirty	 Clean the radiator fins.
	Foam formation in cooling system	 Drain the coolant. → (□ p. 91)
		– Refill with coolant. ❖ (◎ p. 92)
	Damaged cylinder head or cylin-	 Check the cylinder head and cylinder head
	der head gasket	gasket.
	Bent radiator hose	 − Change the radiator hose. ◄
White smoke emission (steam in	Damaged cylinder head or cylin-	 Check the cylinder head and cylinder head
exhaust gas)	der head gasket	gasket.
Gear oil exits at the vent hose	Too much gear oil added	 Check the gear oil level. (
Water in the gear oil	Damaged radial shaft seal ring or	 Check the radial shaft seal ring and the
	water pump	water pump.

20.1 Engine

Design	1-cylinder 2-stroke engine, water-cooled, with reed intake
	and exhaust control
Displacement	124.8 cm³ (7.616 cu in)
Stroke	54.5 mm (2.146 in)
Bore	54 mm (2.13 in)
Crankshaft bearing	1 grooved ball bearing/1 roller bearing
Conrod bearing	Needle bearing
Piston pin bearing	Needle bearing
Pistons	Cast aluminum
Piston rings	2 half keystone rings
X (upper edge of piston to upper edge of cylinder)	0 0.10 mm (0 0.0039 in)
Z (height of control flap)	36.5 mm (1.437 in)
Primary transmission	23:73
Clutch	Multidisc clutch in oil bath/hydraulically activated
Gearbox	6-gear transmission, claw shifted
Transmission ratio	•
first-gear	14:32
second-gear	15:30
third-gear	17:28
fourth-gear	19:27
fifth-gear	19:23
sixth-gear	22:24
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment
Spark plug	NGK BR9 ECMVX
Spark plug electrode gap	0.60 mm (0.0236 in)
Starting aid	Kick starter system

20.2 **Engine tightening torques**

Screw, inner membrane sheets	EJOTDELTA PT® 35x25	1 Nm (0.7 lbf ft)	
Screw, membrane support plate	EJOTDELTA PT° 30x12	1 Nm (0.7 lbf ft)	
Screw, outer membrane sheets	EJOTDELTA PT® 30x6	1 Nm (0.7 lbf ft)	
Screw, clutch spring retainer	M5	6 Nm (4.4 lbf ft)	
Screw, control lever, exhaust control	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, crankshaft speed sensor	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, exhaust control cap	M5	5 Nm (3.7 lbf ft)	
Screw, exhaust control cover	M5	4 Nm (3 lbf ft)	
Screw, locking lever	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, retaining bracket, rotary valve	M5	6 Nm (4.4 lbf ft)	Loctite [®] 2701™
Screw, stator	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™

Screw, water pump wheel	M5	6 Nm (4.4 lbf ft)	
			Loctite [®] 243™
Bleeder screw, cylinder head	M6	8 Nm (5.9 lbf ft)	
Drain plug, water pump cover	M6	10 Nm (7.4 lbf ft)	
Nut, adjusting screw, power valve	M6	8 Nm (5.9 lbf ft)	
Screw, alternator cover	M6	8 Nm (5.9 lbf ft)	
Screw, bearing retainer	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, clutch slave cylinder	M6	10 Nm (7.4 lbf ft)	
Screw, control lever, exhaust control	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, engine case	M6	10 Nm (7.4 lbf ft)	
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	
Screw, gear oil level monitoring	M6	8 Nm (5.9 lbf ft)	
Screw, intake flange/reed valve hous-	M6	6 Nm (4.4 lbf ft)	
ing			
Screw, intermediate clutch cover	M6x20	10 Nm (7.4 lbf ft)	
Screw, intermediate clutch cover	M6x25	10 Nm (7.4 lbf ft)	
Screw, intermediate clutch cover	M6x30	10 Nm (7.4 lbf ft)	
Screw, kick starter stop plate	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, outer clutch cover	M6x20	8 Nm (5.9 lbf ft)	
Screw, outer clutch cover	M6x50	8 Nm (5.9 lbf ft)	
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, stop plate of exhaust control	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)	
Vacuum connection, housing breather	M6	2 Nm (1.5 lbf ft)	
Screw, cylinder head	M7	18 Nm (13.3 lbf ft)	
Nut, cylinder base	M8	23 Nm (17 lbf ft)	
Screw, cylinder base	M8	10 Nm (7.4 lbf ft)	
Screw, kick starter lever	M8	25 Nm (18.4 lbf ft)	Loctite [®] 2701™
Screw, engine sprocket	M10	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
Gear oil drain plug	M10x1	15 Nm (11.1 lbf ft)	
Nut, rotor	M12x1	60 Nm (44.3 lbf ft)	
Gear oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	
Spark plug	M14x1.25	25 Nm (18.4 lbf ft)	
Nut, primary gear wheel	M16LHx1.5	130 Nm (95.9 lbf ft)	Loctite°243™
Nut, inner clutch hub	M18x1.5	100 Nm (73.8 lbf ft)	Loctite [®] 243™

20.3 Carburetor

Carburetor type	MIKUNI TMX 38
Carburetor identification number	TMX 38 87
Needle position	2nd position from top
Jet needle	6BFY43-71 (6BFY42-71)
Main jet	500 (480, 490, 520, 540, 560)
Idling jet	35 (30 / 32.5 / 37.5 / 40)
Choke nozzle	80
Needle jet	S-7
Idle air adjusting screw	
open	1.5 turns

20.3.1 **Carburetor tuning**

MIKUNI TMX 38

ASL	ТЕМР	−20 −7 °C (−4 19 °F)	-6 5 °C (21 41 °F)	6 15 °C (43 59 °F)	16 24 °C (61 75 °F)	25 36 °C (77 97 °F)	37 49 °C (99 120 °F)
2,301 3,000 m (7,549 9,843 ft)	ASO IJ NDL POS MJ	1.5 35 43-71 2 500	2 32.5 43-71 2 500	2 30 43-71 2 490	2 30 43-71 2 480	1.5 30 42-71 2 480	
1,501 2,300 m (4,925 7,546 ft)	ASO IJ NDL POS MJ	2 37.5 43-71 2 520	1.5 35 43-71 2 500	2 32.5 43-71 2 500	2 30 43-71 2 490	2 30 43-71 2 480	1.5 30 42-71 2 480
751 1,500 m (2,464 4,921 ft)	ASO IJ NDL POS MJ	1.5 35 42-71 3 520	2 37.5 43-71 2 520	1.5 35 43-71 2 500	2 32.5 43-71 2 500	2 30 43-71 2 490	2 30 43-71 2 480
301 750 m (988 2,461 ft)	ASO IJ NDL POS MJ	1.5 37.5 42-71 3 540	1.5 35 42-71 3 520	2 37.5 43-71 2 520	1,5 35 43-71 2 500	2 32.5 43-71 2 500	2 30 43-71 2 490
0 300 m (0 984 ft)	ASO IJ NDL POS MJ	1.5 37.5 42-71 3 560	1.5 35 42-71 3 540	2 37.5 43-71 2 540	1.5 35 43-71 2 520	2 32.5 43-71 2 500	2 30 43-71 2 490

ASL	Sea level
TEMP	Temperature
ASO	Idle air adjusting screw open
IJ	Idling jet
NDL	Needle
POS	Needle position from top
MJ	Main jet

Info

Do not use on sandy terrain.

20.3.2 Carburetor - basic setting for sandy surfaces

Idle air adjusting screw	
Open	2 turns
Idling jet	37.5
Jet needle	6BFY42-71
Needle position	3rd position from top
Main jet	580

i

Info

If the engine is not running smoothly, use a smaller main jet.

20.4 Capacities

20.4.1 Gear oil

Gear oil	0.80 l (0.85 qt.)	Engine oil (15W/50) (🕮 p. 120)

20.4.2 Coolant

Coolant	1.2 (1.3 at.)	Coolant (🕮 p. 120)
Coolant	1.21(1.3 qt.)	Coolant (. p. 120)

20.4.3 Fuel

Total fuel tank capacity, approx.	7.5 l (1.98 US gal)	Super unleaded (98 octane) mixed with
		2-stroke engine oil (1:40) (🕮 p. 121)

20.5 Chassis

Frame	Central tube frame made of chrome molybdenum steel	
	tubing	
Fork	WP XACT AER	
Shock absorber	WP XACT 5750	
Suspension travel		
front	310 mm (12.2 in)	
rear	300 mm (11.81 in)	
Fork 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 discs - wear limit		
front	2.5 mm (0.098 in)	
rear	3.5 mm (0.138 in)	
Offroad tire pressure		
front	1.0 bar (15 psi)	
rear	1.0 bar (15 psi)	

Secondary ratio	13:51
Chain	5/8 x 1/4"
Rear sprockets available	48, 50, 52
Steering head angle	63.9°
Wheelbase	1,485 ± 10 mm (58.46 ± 0.39 in)
Seat height unloaded	950 mm (37.4 in)
Ground clearance unloaded	375 mm (14.76 in)
Weight without fuel, approx.	87.5 kg (192.9 lb.)
Maximum permissible front axle load	145 kg (320 lb.)
Maximum permissible rear axle load	190 kg (419 lb.)
Maximum permissible overall weight	335 kg (739 lb.)

20.6 Tires

Front tire	Rear tire
80/100 - 21 51M TT	100/90 - 19 57M TT
Dunlop GEOMAX MX33 F	Dunlop GEOMAX MX33

The tires specified represent one of the possible series production tires. Additional information is available in the Service section under:

http://www.gasgas.com

20.7 Fork

Fork article number	A540C101U406000
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	8.3 bar (120 psi)
Fork length	950 mm (37.4 in)

Oil capacity external mechanism left	230 ^{+ 10} ₋₅₀ ml (7.78 ^{+ 0.34} _{-1.69} fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 121)
Oil capacity external mechanism right	230 ± 10 ml (7.78 ± 0.34 fl. oz.)	Fork oil (SAE 4) (48601166S1) (p. 121)
Grease capacity, left cartridge	5 g (0.18 oz)	Special grease (00062010053) (🕮 p. 123)
Oil capacity, right cartridge	380 ml (12.85 fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 121)

20.8 Shock absorber

18.18.7U.01
WP XACT 5750
17 clicks
15 clicks
13 clicks
2 turns
1.5 turns
1 turn
17 clicks
15 clicks
13 clicks
7 mm (0.28 in)
36 N/mm (206 lb/in)
39 N/mm (223 lb/in)
42 N/mm (240 lb/in)
255 mm (10.04 in)
260 mm (10.24 in)
260 mm (10.24 in)
10 bar (145 psi)
35 mm (1.38 in)
105 mm (4.13 in)
477 mm (18.78 in)
SAE 2.5

20.9 Chassis tightening torques

Screw, switch-off button	M3	0.4 Nm (0.3 lbf ft)
Screw, fixed grip	M4	5 Nm (3.7 lbf ft)
		Loctite [®] 243™
Spoke nipple, front wheel	M4.5	6 Nm (4.4 lbf ft)
Spoke nipple, rear wheel	M4.5	6 Nm (4.4 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screws on main silencer	M5	7 Nm (5.2 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Screw, absorbing element on frame	M6	6 Nm (4.4 lbf ft)
Screw, absorbing element on mani-	M6	6 Nm (4.4 lbf ft)
fold		

Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	
o. o., o.a o.ag gaara		J	Loctite [®] 243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, throttle grip	M6	5 Nm (3.7 lbf ft)	
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)	
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite [®] 2701™
Nut, rim lock	M8	12 Nm (8.9 lbf ft)	
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)	
Screw, engine brace on engine	M8x20	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, engine brace on frame	M8x15	25 Nm (18.4 lbf ft)	Loctite°2701™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	
Screw, manifold	M8	15 Nm (11.1 lbf ft)	
Screw, subframe bottom	M8x18	30 Nm (22.1 lbf ft)	Loctite [®] 2701™
Screw, subframe top	M8x20	35 Nm (25.8 lbf ft)	Loctite [®] 2701™
Screw, top steering stem	M8	20 Nm (14.8 lbf ft)	Loctite [®] 243™
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)	
Engine bracket screw	M10	60 Nm (44.3 lbf ft)	
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	
Screw, bottom shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
Nut, angle lever to link fork	M14x1.5	60 Nm (44.3 lbf ft)	
Nut, frame on linkage lever	M14x1.5	60 Nm (44.3 lbf ft)	
Nut, linkage lever on angle lever	M14x1.5	60 Nm (44.3 lbf ft)	
Nut, fork pivot	M16x1.5	100 Nm (73.8 lbf ft)	
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)	
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)	
Screw-in fitting, cooling system	M24x1.5	18 Nm (13.3 lbf ft)	Loctite [®] 243™

1	Nut. rear wheel spindle	M25x1.5	80 Nm (59 lbf ft)	
	. vac, real villeer opiliale	111207110	00 11 (05 .2. 11)	

Brake fluid DOT 4 / DOT 5.1

Standard/classification

DOT

Guideline

 Use only brake fluid that complies with the specified standard (see specifications on the container) and that exhibits the corresponding properties.

Recommended supplier

Castrol

REACT PERFORMANCE DOT 4

MOTOREX®

Brake Fluid DOT 5.1

Coolant

Guideline

- Only use high-grade, silicate-free coolant with corrosion inhibitor additive for aluminum motors. Low grade and unsuitable antifreeze causes corrosion, deposits and frothing.
- Do not use pure water as only coolant is able to meet the requirements needed in terms of corrosion protection and lubrication properties.
- Only use coolant that complies with the requirements stated (see specifications on the container) and that has the relevant properties.

Antifreeze protection to at least	−25 °C (−13 °F)
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The mixture ratio must be adjusted to the necessary antifreeze protection. Use distilled water if the coolant needs to be diluted.

The use of premixed coolant is recommended.

Observe the coolant manufacturer specifications for antifreeze protection, dilution and miscibility (compatibility) with other coolants.

Recommended supplier

MOTOREX[®]

- COOLANT M3.0

Engine oil (15W/50)

Standard/classification

- JASO T903 MA2 (
 p. 124)
- SAE (₩ p. 124) (15W/50)

Guideline

 Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties.

Recommended supplier

MOTOREX®

Top Speed 4T

Engine oil, 2-stroke

Standard/classification

JASO FD ([∞] p. 124)

Guideline

Only use high-grade 2-stroke engine oil from a reputable brand.

fully synthetic

Recommended supplier

MOTOREX®

Cross Power 2T

Fork oil (SAE 4) (48601166S1)

Standard/classification

- SAE (♠ p. 124) (SAE 4)

Guideline

Use only oils that comply with the specified standards (see specifications on the container) and that exhibit the corresponding properties.

Shock absorber fluid (SAE 2.5) (50180751S1)

Standard/classification

- SAE (♠ p. 124) (SAE 2.5)

Guideline

Use only oils that comply with the specified standards (see specifications on the container) and that exhibit the corresponding properties.

Super unleaded (ROZ 98 / RON 98 / PON 94)

Standard/classification

DIN EN 228 (ROZ 98 / RON 98 / PON 94)

Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40)

Standard/classification

- DIN EN 228
- JASO FD (p. 124) (1:40)

Mixture ratio

1:40	Engine oil, 2-stroke (🕮 p. 120)
	Super unleaded (ROZ 98 / RON 98 / PON 94) (🕮 p. 121)

Recommended supplier

MOTOREX®

Cross Power 2T

Air filter cleaner

Recommended supplier MOTOREX®

- Racing Bio Dirt Remover

Chain cleaner

Recommended supplier MOTOREX°

Chain Clean

Fuel additive

Recommended supplier MOTOREX®

Fuel Stabilizer

High viscosity grease

Recommended supplier SKF°

LGHB 2

Long-life grease

Recommended supplier MOTOREX®

Bike Grease 2000

Motorcycle cleaner

Recommended supplier MOTOREX®

Moto Clean

Off-road chain spray

Recommended supplier MOTOREX°

Chainlube Offroad

Oil for foam air filter

Recommended supplier MOTOREX°

Racing Bio Liquid Power

Preserving materials for paints, metal and rubber

Recommended supplier MOTOREX®

Moto Protect

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces

Recommended supplier MOTOREX®

Quick Cleaner

Special grease (00062010053)

Recommended supplier Klüber Lubrication®

- KLÜBERFOOD NH1 34-401

Universal oil spray

Recommended supplier MOTOREX®

Joker 440 Synthetic

JASO T903 MA2

Different technical development directions required a separate specification for motorcycles – the **JASO T903 MA2** standard

Earlier, engine oils from the automobile industry were used for motorcycles because there was no separate motorcycle specification.

Whereas long service intervals are demanded for automobile engines, the focus for motorcycle engines is on high performance at high engine speeds.

In most motorcycle engines, the transmission and clutch are lubricated with the same oil.

The JASO T903 MA2 standard meets these special requirements.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

JASO FD

JASO FD is a classification for a 2-stroke engine oil that was specifically developed for the extreme demands of racing. Thanks to first-rate synthetic esters and specially designed additives, superb combustion is achieved even under extreme operating conditions.

Art. no.	Article number
ca.	circa
cf.	compare
e.g.	for example
etc.	et cetera
i.a.	inter alia
no.	number
poss.	possibly

	Clutch	
A	fluid level, checking/correcting 6	
Accessories	fluid, changing 6	;9
Air filter	Clutch lever	
cleaning	basic position, adjusting 6	36
installing	Compression damping	
removing	fork, adjusting	ξS
Air filter box	Coolant	
cleaning	changing)3
Air filter box cover	draining	
installing	refilling 9	12
preparing for securing	Coolant level	
removing	checking89-9)(
Air suspension XACT 5448	Cooling system	38
Antifreeze	Customer service	9
checking	D	
Auxiliary substances	Defined use	6
В	Difficult operating conditions	C
	dry sand	
Basic chassis setting	high temperatures	
rider's weight, checking with	low temperature	
Brake discs	muddy surfaces	22
checking71	slow speed	23
Brake fluid	snow	14
front brake, adding	wet sand	
rear brake, adding	wet surfaces	!2
Brake fluid level	E	
front brake, checking	Engine	
rear brake, checking	running in	2
Brake linings	Engine number	12
front brake, checking	·	. 2
of the front brake, changing	Engine sprocket checking	
of the rear brake, changing	ů	
	Environment	٤
c	F	
Capacity	Figures	ç
coolant	Filling up	
gear oil	fuel	3
Carburetor	Foot brake lever	. 7
Adjusting the idle speed	basic position, adjusting	7
float chamber, emptying	free travel, checking	16
idle setting	Fork	
Carburetor tuning	air pressure, adjusting	38
Chain	article number	.2
checking 64	basic setting, checking	38
cleaning	Fork legs	
Chain guide	bleeding	12
checking	dust boots, cleaning 4	13
Chain tension	installing	
adjusting 63	removing	13
checking 62	Fork protector	
Choke	installing	
	removing 4	5

installing 50 memoving 50 cleaning 1.00 from twheel installing 83 removing 83 removing 83 removing 83 removing 50 cleaning 1.00 memoving 50 per test tank installing 600 per test tank filler cap closing 15 per test tank filler cap 16 per test tank filler cap 16 per test tank filler cap 17 per test test cap 18 per test tank filler cap 18 per test tank filler cap 18 per test tank filler cap 19 per test tank fi	Frame	removing
installing 50 keepworing 50 cleaning 100 cleaning 100 cleaning 100 keepworing 50 cleaning 100 keepworing 50 keepwo	checking 66	Manufacturer warranty
Front wheel installing	Front fender	Misuse
Front wheel installing	S	Motorcycle
Installing 83 Falsing with lift stand 427 Feet tank 180 18	G	9
Fuel tank installing 60 removing 59 Fuel tank filler cap closing 59 Fuel tank filler cap 15 repeated by the company 59 Guer tank filler cap 15 repeated by the company 59 Guer tank filler cap 15 repeated by the company 59 Guer tap 16 Gear oil 40 Achanging 103 Gear oil level 60 Checking 103 Gear oil level 70 Checking 103 Hand brake lever 14 Basic position, adjusting 71 Free travel, checking 71 Free travel, checking 71 Handlebar position 40 Adjusting 71 High-speed compression damping 50 Shock absorber, adjusting 33 I Use the first of the company 50 Intended use 6 K K K K K K K K K K K K K K K K K K K		
Fuel tank installing		
installing 60 P Freel tank filler cap		
Fuel tank filler cap Closing 15		Owner's Manual
Closing		P
Closing		Play in throttle cable
Fuel tap 16 Preparing for use 18 Fuel, oils, etc. 9 addice on preparing for first use 18 Gear oil adding 104 checks and maintenance measures when preparing for use 18 Gear oil level checking 103 R Checking 103 Radiator cover 88 Installing 88 sex Hand brake lever 14 Basic position, adjusting 71 Rear sprocket checking 64 Handlebar position 40 adjusting 88 Rear sprocket checking 64 Handlebar position 40 adjusting 88 Rear wheel installing 88 High-speed compression damping shock absorber, adjusting 33 Rebound damping 40 Adjusting 40 Ilpinition timing map changing 100 purplied warranty 9 Checking sag 33 Adjusting 37 Adjusting 37 Adjusting 37 Adjusting 37 Adjusting 36 Adjusting 36 Adjusting </td <td>•</td> <td>checking95</td>	•	checking95
Fuel, oils, etc. 9 G advice on preparing for first use after storage after storage for use. 108 Gear oil adding changing 109 checks and maintenance measures when preparing for use. 25 Protective clothing 7 R Radiator cover assisting assisting assisting. 88 Hand brake lever abasic position, adjusting. 71 free travel, checking. 71 Handlebar position. 40 adjusting. 40 adjusting. 88 removing. 88 Rear sprocket checking. 64 Rear wheel installing. 84 installing. 84 removing. 83 Rebound damping. 40 shock absorber, adjusting. 37 plug-in connector. 100 Implied warranty. 9 plug-in connector. 100 plug-in connector. 100 plug-in connector. 100 tink fork. 5 ckick starter lever. 17	_	Plug-in stand
Fuel, oils, etc. 9 advice on preparing for first use 18 Gear oil after storage 105 changing 103 for use 25 Gear oil level checking 103 R Radiator cover 8 Hand brake lever 14 basic position, adjusting 71 free travel, checking 71 free travel, checking 64 Handlebar position 40 installing 84 removing 88 Handlebar position 40 installing 84 removing 84 Handlebar position adjusting 71 free travel, checking 64 feer wheel installing 84 removing 88 removing 84 removing 98 removing 98 removing 84 removing 84	Fuel tap	Preparing for use
Checks and maintenance measures when preparing for use	Fuel, oils, etc.	· ·
Checks and maintenance measures when preparing for use 25	G	
adding changing 104 changing 103		checks and maintenance measures when preparing
Changing 103 Protective clothing 7 7 7 7 7 7 7 7 7		for use
Radiator cover	3	Protective clothing
Hand brake lever	Gear oil level	R
Hand brake lever		Radiator cover
Rear sprocket	н	installing
Basic position, adjusting free travel, checking 71		removing89
free travel, checking 71 Checking 64 Handlebar position 40 adjusting 40 High-speed compression damping shock absorber, adjusting 33 Rebound damping fork, adjusting 40 Ignition timing map changing 100 shock absorber, adjusting 34 Ignition timing map changing 100 Rubber grip 37 Implied warranty 9 checking 67 Intended use 6 S K Safe operation 7 Kick starter lever 17 Seat L mounting 54 checking 66 Service 9 Lower triple clamp installing 46 basic position, adjusting 100 basic position, checking 100 basic position, checking 100 Low-speed compression damping shock absorber, adjusting 33 33 33 34 34 Mini silencer glass fiber yarn filling, changing 58 58 58 58 58 Fremoving 58 58		Rear sprocket
Handlebar position 40 adjusting Rear wheel installing removing 84 removing 85 removing 87 removing 85 removing 86 removing		checking64
Adjusting Adju		Rear wheel
High-speed compression damping Shock absorber, adjusting Shock absorber Shift lever Shift		installing
shock absorber, adjusting 33 Rebound damping I fork, adjusting 40 Ispition timing map shock absorber, adjusting 34 Ingliging 100 adjusting 37 Implied warranty 9 checking 67 Intended use 6 S Safe operation 7 K Safe operation 7 Seat 54 Link fork removing 53 54 checking 66 Service 9 Lower triple clamp shift lever 16 installing 46 basic position, adjusting 100 Low-speed compression damping 5hift lever 16 shock absorber, adjusting 33 Ministilencer article number 13 glass fiber yarn filling, changing 58 riding sag, checking 36	•	removing
Tork, adjusting		Rebound damping
Ignition timing map		, , ,
changing 100 adjusting 37 plug-in connector 100 Implied warranty 9 checking 67 Intended use 6 K K Safe operation 7 Seat Link fork checking 66 Lower triple clamp installing 46 removing 45 Low-speed compression damping shock absorber, adjusting 33 M Main silencer glass fiber yarn filling, changing 58 Intended use 6 Safe operation 7 Seat Muber grip checking 66 Safe operation 7 Seat Muber grip checking 66 Safe operation 7 Seat Mounting 54 removing 53 Service 9 Shift lever 16 basic position, adjusting 100 basic position, checking 100 basic position, checking 100 compression damping, general 33 installing 52 removing 50 riding sag, checking 36		shock absorber, adjusting
Plug-in connector 100 Rubber grip 100	Ignition timing map	
Implied warranty 9 checking 67 Intended use 6 S K Safe operation 7 Kick starter lever 17 Seat Link fork mounting 54 checking 53 Service 9 Lower triple clamp shift lever 16 installing 46 basic position, adjusting 100 basic position, checking 100 Low-speed compression damping Shock absorber shock absorber, adjusting 33 M Shock absorber glass fiber yarn filling, changing 58 riding sag, checking 36	5 5	adjusting
K Safe operation 7 Kick starter lever 17 Seat L mounting 54 removing 53 Lower triple clamp Service 9 installing 46 basic position, adjusting 100 tow-speed compression damping 5hock absorber Shock absorber shock absorber, adjusting 33 Shock absorber 33 M Shock absorber 33 34 Main silencer glass fiber yarn filling, changing 58 riding sag, checking 36		Rubber grip
K Safe operation 7 Kick starter lever 17 Seat L mounting 54 removing 53 Checking 66 Service 9 Lower triple clamp Shift lever 16 installing 46 basic position, adjusting 100 tow-speed compression damping 5hock absorber 33 shock absorber, adjusting 33 Shock absorber article number 13 compression damping, general 33 installing 52 compression damping, general 33 installing 52 glass fiber yarn filling, changing 58 riding sag, checking 36		checking67
Kick starter lever 17 Seat L mounting 54 removing 53 Link fork 53 checking 66 Lower triple clamp 56 installing 46 removing 45 Low-speed compression damping 58 shock absorber 33 M 33 Main silencer removing 52 glass fiber yarn filling, changing 58 riding sag, checking 36		S
Main silencer glass fiber yarn filling, changing 584 mounting 54 removing 53 Service 9 Shift lever 16 basic position, adjusting 100 basic position, checking 100 basic position, checking 100 Shock absorber article number 13 compression damping, general 33 installing 52 removing 54 removing 55 Service 9 Shift lever 16 basic position, adjusting 100 basic p	K	Safe operation
Link fork checking 66 Lower triple clamp installing 46 removing 45 Low-speed compression damping shock absorber, adjusting 33 M Main silencer glass fiber yarn filling, changing 58 removing 53 Service 9 Shift lever 16 basic position, adjusting 100 basic position, checking 100 Shock absorber article number 13 compression damping, general 33 installing 52 removing 50 riding sag, checking 36	Kick starter lever	Seat
checking 66 Service 9 Lower triple clamp installing 46 basic position, adjusting 100 basic position, checking 100 basic position, c	L	6
Lower triple clamp installing 46 removing 45 basic position, adjusting 100 Low-speed compression damping shock absorber, adjusting 33 M Main silencer glass fiber yarn filling, changing 58 Shift lever 16 basic position, adjusting 100 basic position, checking 100 basic position, checking 100 basic position, adjusting 100 basic positi	Link fork	removing
installing	checking	Service
installing 46 basic position, adjusting 100 basic position, checking 100 basic position, adjusting 100 basic position, checking 100 basic position, adjusting 100 basic position 100 basic position 100 basic position 100 basic	Lower triple clamp	Shift lever
Low-speed compression damping shock absorber, adjusting		basic position, adjusting 100
shock absorber, adjusting	removing 45	basic position, checking
shock absorber, adjusting	Low-speed compression damping	Shock absorber
Minstalling52Main silencerremoving50glass fiber yarn filling, changing58riding sag, checking36		
Main silencer removing	M	
glass fiber yarn filling, changing		
		· · · · · · · · · · · · · · · · · · ·

static sag, checking		35
Spare parts		9
Spoke tension		
checking		87
Start number plate		
installing		49
removing		49
Starting		25
Steering head bearing		
lubricating		49
Steering head bearing play		
adjusting		48
checking		
Stop button		
Storage	1	SU.
Т		
Technical data		
capacities		
carburetor		
chassis		
chassis tightening torques		
engine		
engine tightening torques		
fork		
shock absorber		
tires	1	Ιt
Throttle cable play		0.5
adjusting		95
Throttle cable routing		
checking		66
Throttle grip		14
Tire condition		
checking		86
Tire pressure		
checking		86
Transporting		28
Troubleshooting	110-1	11
Type label		12
V		
Vehicle identification number		12
View of vehicle		
front left		10
rear right		11
W		
NA/owle mulos		



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