Dear Husqvarna Motorcycles Customer

Congratulations on your decision to purchase a Husqvarna motorcycle. You are now the owner of a state-of-the-art sports vehicle that will continue to give you and your child pleasure for a long time if you maintain it properly.

We hope your child has many safe and enjoyable rides!

Enter the serial numbers of your vehicle below.

<table>
<thead>
<tr>
<th>Vehicle identification number (p. 14)</th>
<th>Dealer's stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine number (p. 14)</td>
<td></td>
</tr>
</tbody>
</table>

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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**TABLE OF CONTENTS**

1 MEANS OF REPRESENTATION .......................... 5
  1.1 Symbols used ............................................. 5
  1.2 Formats used .............................................. 5

2 SAFETY ADVICE .............................................. 6
  2.1 Use definition – intended use ....................... 6
  2.2 Misuse ..................................................... 6
  2.3 Safety advice ............................................. 6
  2.4 Degrees of risk and symbols ......................... 6
  2.5 Tampering warning ........................................ 7
  2.6 Safe operation ........................................... 7
  2.7 Protective clothing ...................................... 8
  2.8 Work rules ............................................... 8
  2.9 Environment ............................................. 8
  2.10 Owner’s Manual ......................................... 8

3 IMPORTANT NOTES ............................................ 10
  3.1 Manufacturer warranty, implied warranty .............. 10
  3.2 Fuel, auxiliary substances ............................ 10
  3.3 Spare parts, accessories ................................ 10
  3.4 Service .................................................... 10
  3.5 Figures .................................................... 10
  3.6 Customer service ....................................... 11

4 VIEW OF VEHICLE ........................................... 12
  4.1 View of vehicle, front left (example) ................. 12
  4.2 View of vehicle, rear right (example) .................. 13

5 SERIAL NUMBERS ............................................ 14
  5.1 Vehicle identification number ......................... 14
  5.2 Type label ................................................ 14
  5.3 Engine number .......................................... 14
  5.4 Fork part number ........................................ 14
  5.5 Shock absorber article number ...................... 15

6 CONTROLS ..................................................... 16
  6.1 Clutch lever .............................................. 16
  6.2 Hand brake lever ........................................ 16
  6.3 Throttle grip ............................................. 16
  6.4 Stop button .............................................. 16
  6.5 Opening the fuel tank filler cap ...................... 17
  6.6 Closing the fuel tank filler cap ..................... 17
  6.7 Fuel tap .................................................. 18
  6.8 Choke ..................................................... 18
  6.9 Shift lever ............................................... 18
  6.10 Kick starter lever ...................................... 19
  6.11 Foot brake lever ....................................... 19
  6.12 Plug-in stand .......................................... 19
  6.13 Service hour counter .................................. 19

7 PREPARING FOR USE ........................................ 20
  7.1 Advice on preparing for first use ..................... 20
  7.2 Running in the engine .................................... 22

8 RIDING INSTRUCTIONS ...................................... 23
  8.1 Checks and maintenance measures when preparing for use ........................................ 23
  8.2 Starting the vehicle ...................................... 23
  8.3 Starting off ............................................... 24
  8.4 Shifting, riding .......................................... 24
  8.5 Applying the brakes ..................................... 25
  8.6 Stopping, parking ........................................ 25
  8.7 Transporting ............................................. 26
  8.8 Refueling .................................................. 26

9 SERVICE SCHEDULE ......................................... 28
  9.1 Additional information ................................ 28
  9.2 Required work .......................................... 28
  9.3 Recommended work ...................................... 29

10 TUNING THE CHASSIS ..................................... 30
  10.1 Checking the basic chassis setting with rider’s weight ............................................. 30
  10.2 Air suspension XACT 5235 ............................ 30
  10.3 Compression damping of the shock absorber ................................................... 31
  10.4 Adjusting the low-speed compression damping of the shock absorber ................. 31
  10.5 Adjusting the high-speed compression damping of the shock absorber .................. 32
  10.6 Adjusting the rebound damping of the shock absorber ........................................ 32
  10.7 Measuring the dimension of the rear wheel unloaded ............................................ 33
  10.8 Checking the static sag of the shock absorber .................................................. 34
  10.9 Checking the riding sag of the shock absorber .................................................. 34
  10.10 Adjusting the spring preload of the shock absorber ........................................... 35
  10.11 Adjusting the riding sag ................................ 36
  10.12 Checking the basic setting of the fork .......................................................... 36
  10.13 Adjusting the fork air pressure ......................... 37
  10.14 Adjusting the rebound damping of the fork ................................................... 38
  10.15 Handlebar position ..................................... 38
  10.16 Adjusting the handlebar position ................. 39
11 SERVICE WORK ON THE CHASSIS ............... 40
  11.1 Raising the motorcycle with a lift stand ............................................. 40
  11.2 Removing the motorcycle from the lift stand ............................................ 40
  11.3 Bleeding the fork legs ................................................................. 40
  11.4 Cleaning the dust boots of the fork legs .................................................... 41
  11.5 Removing the fork protector ................................................................. 41
  11.6 Installing the fork protector ....................................................................... 42
  11.7 Removing the fork legs ............................................................................. 42
  11.8 Installing the fork legs .............................................................................. 43
  11.9 Removing the lower triple clamp ................................................................. 44
  11.10 Installing the lower triple clamp ................................................................ 45
  11.11 Checking the steering head bearing play .................................................... 47
  11.12 Adjusting the steering head bearing play ................................................... 47
  11.13 Lubricating the steering head bearing ........................................................ 48
  11.14 Removing the start number plate ............................................................... 48
  11.15 Installing the start number plate .................................................................. 48
  11.16 Removing front fender .................................................................................. 49
  11.17 Installing front fender ................................................................................... 49
  11.18 Removing the right side cover ..................................................................... 50
  11.19 Installing the right side cover ..................................................................... 51
  11.20 Securing right side cover ............................................................................ 51
  11.21 Removing the left side cover ....................................................................... 52
  11.22 Installing the left side cover ........................................................................ 53
  11.23 Securing left side cover ................................................................................ 54
  11.24 Installing the shock absorber ........................................................................ 54
  11.25 Installing the shock absorber ........................................................................ 55
  11.26 Removing the seat ....................................................................................... 55
  11.27 Mounting the seat ......................................................................................... 56
  11.28 Removing the air filter .................................................................................. 56
  11.29 Installing the air filter ................................................................................... 57
  11.30 Cleaning the air filter and air filter box ......................................................... 57
  11.31 Removing the main silencer ........................................................................ 58
  11.32 Installing the main silencer ......................................................................... 58
  11.33 Changing the glass fiber yarn filling of the main silencer .............................. 59
  11.34 Removing the fuel tank ................................................................................ 59
  11.35 Installing the fuel tank .................................................................................. 61
  11.36 Checking the chain for dirt .......................................................................... 62
  11.37 Cleaning the chain ........................................................................................ 62
  11.38 Checking the chain tension ......................................................................... 63
  11.39 Adjusting the chain tension ......................................................................... 64
  11.40 Checking the chain, rear sprocket, engine sprocket, and chain guide .......... 64
  11.41 Checking the frame ...................................................................................... 67
  11.42 Checking the link fork ................................................................................... 67
  11.43 Checking the throttle cable routing ............................................................... 67
  11.44 Checking the rubber grip ............................................................................ 68
  11.45 Additionally securing the rubber grip ........................................................... 68
  11.46 Adjusting the basic position of the clutch lever .......................................... 68
  11.47 Checking the fluid level of the hydraulic clutch ........................................... 69
  11.48 Correcting the fluid level of the hydraulic clutch .......................................... 69
  11.49 Changing the hydraulic clutch fluid ............................................................ 70

12 BRAKE SYSTEM ............................................. 72
  12.1 Checking the free travel of the hand brake lever .......................................... 72
  12.2 Adjusting the basic position of the hand brake lever .................................... 72
  12.3 Checking the brake discs ............................................................................... 72
  12.4 Checking the front brake fluid level ............................................................... 73
  12.5 Adding the front brake fluid ........................................................................... 74
  12.6 Checking the front brake linings ..................................................................... 75
  12.7 Changing the brake linings of the front brake ................................................ 75
  12.8 Checking the free travel of the foot brake lever ............................................. 78
  12.9 Adjusting the free travel of the foot brake lever ........................................... 79
  12.10 Adjusting the basic position of the foot brake lever .................................... 79
  12.11 Checking the rear brake fluid level ............................................................... 80
  12.12 Adding rear brake fluid ................................................................................ 81
  12.13 Checking the rear brake linings .................................................................... 82
  12.14 Changing the brake linings of the rear brake .............................................. 82

13 WHEELS, TIRES .............................................. 86
  13.1 Removing the front wheel .............................................................................. 86
  13.2 Installing the front wheel ............................................................................... 86
  13.3 Removing the rear wheel ............................................................................... 87
  13.4 Installing the rear wheel ................................................................................ 88
  13.5 Checking the tire condition .......................................................................... 89
  13.6 Checking tire pressure .................................................................................. 90
  13.7 Checking spoke tension .................................................................................. 91

14 COOLING SYSTEM ........................................... 92
  14.1 Cooling system ............................................................................................ 92
  14.2 Checking the antifreeze and coolant level .................................................... 92
  14.3 Checking the coolant level ............................................................................. 93
  14.4 Draining the coolant ...................................................................................... 93
  14.5 Refilling with coolant ..................................................................................... 94
  14.6 Changing the coolant ..................................................................................... 95
1.1 Symbols used

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).

 ремонт All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of the safety of your child, have these jobs performed in an authorized Husqvarna Motorcycles workshop. There, your motorcycle will be optimally cared for by specially trained experts using the specialist tools required.

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

ℹ️ Indicates information with more details or tips.

⇒ Indicates the result of a testing step.

�향 Indicates the end of an activity, including potential rework.

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.
2.5 Tampering warning

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 promptly eliminated by an authorized Husqvarna Motorcycles workshop.

Adhere to the information and warning labels on the vehicle.
2 SAFETY ADVICE

2.7 Protective clothing

**Warning**

Risk of injury  Missing or poor protective clothing presents an increased safety risk.
- Ensure your child wears appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always use protective clothing for your child that is in good condition and meets the legal requirements.
- When you ride a motorcycle, set an example for your child and wear suitable protective clothing.

In the interest of your child’s safety, Husqvarna Motorcycles recommends that only operating 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 Husqvarna Motorcycles dealer will be glad to advise you.

2.10 Owner’s Manual

It is important that you read this Owner’s Manual carefully and completely before your child makes his or her first trip. The Owner’s Manual contains useful information and many tips for you and your child on how to operate, handle, and service your motorcycle. This is the only way for you to find out how to ideally tune the vehicle and how to protect your child 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 Husqvarna 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 also available for download from your authorized Husqvarna Motorcycles dealer and on the Husqvarna Motorcycles website. A printed copy can also be ordered from your authorized Husqvarna Motorcycles dealer.
International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com
3.1 Manufacturer warranty, implied warranty

The work prescribed in the service schedule must only be carried out in an authorized Husqvarna Motorcycles workshop and confirmed in the Husqvarna 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 the safety of your child, only use spare parts and accessory products that are approved and/or recommended by Husqvarna Motorcycles and have them installed by an authorized Husqvarna Motorcycles workshop. Husqvarna 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 Husqvarna Motorcycles dealer will be glad to advise you.

The current Husqvarna Motorcycles accessories for your vehicle can be found on the Husqvarna Motorcycles website.

International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the Owner’s Manual. An incorrect suspension setting can lead to damage and breakage of chassis components. Use of the vehicle under difficult conditions, such as on sand or on wet, dusty and muddy surfaces, can result in significantly increased wear of components, such as the drive train, brake system, air filter 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 Husqvarna Motorcycles dealer will be happy to answer any questions you may have regarding your vehicle and Husqvarna Motorcycles.

A list of authorized Husqvarna Motorcycles dealers can be found on the Husqvarna Motorcycles website. International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com
4.1 View of vehicle, front left (example)

1. Hand brake lever (p. 16)
2. Valve for fork airpump
3. Clutch lever (p. 16)
4. Quick release for seat lock
5. Shock absorber rebound adjuster
6. Choke (p. 18)
7. Shift lever (p. 18)
8. Fuel tap (p. 18)
4.2 View of vehicle, rear right (example)

1. Fuel tank filler cap
2. Stop button (p. 16)
3. Fork rebound adjustment
4. Vehicle identification number (p. 14)
5. Throttle grip (p. 16)
6. Kick starter lever (p. 19)
7. Foot brake lever (p. 19)
8. Shock absorber compression adjuster
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 located on the front frame tube.

5.3 Engine number

The engine number 1 is located 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 outside of the axle clamp.
5.5 Shock absorber article number

The shock absorber article number 1 is stamped on the top of the shock absorber above the adjusting ring towards the left-hand side.
6 CONTROLS

6.1 Clutch lever

The clutch lever is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

6.2 Hand brake lever

Hand brake lever is fitted on the right side of the handlebar. The hand brake lever is used to activate the front brake.

6.3 Throttle grip

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

6.4 Stop button

The stop button 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.
6.5 Opening the fuel tank filler cap

**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.

- Press release button 1, turn the fuel tank filler cap counterclockwise, and lift it off.

6.6 Closing the fuel tank filler cap

- Mount the fuel tank filler cap and turn it clockwise until release button 1 engages.

**Info**

Route fuel tank breather hose 2 without kinks.
6.7 Fuel tap

Fuel tap 1 is on the left of the fuel tank.

Possible states
- Fuel tap is closed – The knurled screw is turned all the way clockwise. Fuel cannot flow out of the fuel tank.
- Fuel tap is open – The knurled screw is turned all the way counterclockwise. Fuel can flow out of the fuel tank.

6.8 Choke

Choke lever 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 pushed down all the way to the stop.
- Choke function deactivated – The choke lever is pushed up all the way 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 figure. The neutral or idle position N is between the first and second gear.
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 1 is located in front of the right footrest. The rear brake is engaged with the foot brake lever.

6.12 Plug-in stand

The fixture for plug-in stand 1 is located on the frame on the left side of the vehicle. The plug-in stand is used to park the motorcycle.

Info
Remove the plug-in stand before riding.

6.13 Service hour counter

The service hour counter 1 is attached below the seat. It shows the total number of service hours of the engine. The service hour counter begins counting when the engine is started and stops when the engine is switched off.

Info
The value indicated by the service hour counter cannot be cleared or adjusted.
## 7.1 Advice on preparing for first use

### Warning

**Danger of accidents**  A lack of physical and mental readiness on the part of the child poses a major risk.

- Children often underestimate or fail to recognize dangerous situations.
- Your child must already be able to ride a bicycle.
- Your child must be able to put the vehicle upright independently after a fall.
- Your child must understand that regulations and instructions from you or from other guardians must be followed.
- Make it clear to your child that he or she should not, under any circumstances, operate the vehicle without supervision.
- Make it clear to your child that he or she may only drive at speeds commensurate with the child’s riding abilities and the road conditions.
- Do not ask too much of your child.
- Do not consider participation in competitive activities until your child’s stamina, riding techniques and motivation are at the necessary levels.
- Only let your child ride on the vehicle if he or she is physically and mentally ready.

### Warning

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

- Ensure your child wears appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always use protective clothing for your child that is in good condition and meets the legal requirements.
- When you ride a motorcycle, set an example for your child and wear suitable protective clothing.

### 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 constitutes a major risk.

- Ensure that your child adapts the riding speed to the road conditions and to his or her riding abilities.

### Warning

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

- Make it clear to your child that he or she must not carry 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.
- Ensure that your child raises his or her foot from the foot brake lever if he or she does not want to brake.
Warning

Danger of accidents  The suspension components will become damaged or destroyed if overloaded.
– Do not exceed the maximum permissible weight of the rider.

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

– Ensure that the pre-sale inspection work has been carried out by an authorized Husqvarna Motorcycles workshop.
  ✔️ You will receive a delivery certificate when the vehicle is handed over.
– Read through the entire Owner’s Manual together with your child before riding for the first time.

Info

Pay special attention to the safety instructions and to the risk of injury.

Explain to your child the techniques of riding and falling, e.g., how shifting weight can influence handling characteristics.

– Familiarize your child with the controls.
– Adjust the basic position of the clutch lever. (p. 68)
– Adjust the basic position of the hand brake lever. (p. 72)
– Adjust the basic position of the foot brake lever. (p. 79)
– Before using the vehicle for the first time, ensure that the basic settings of the chassis are suitable for the weight of your child.
– Allow your child to become accustomed to the handling of the motorcycle on suitable terrain, preferably on a large, open meadow.

Info

To give your child a feeling for the brake system, you should push your child at first. Do not start the engine until your child is able to apply the necessary front brake pressure.

Initially, let your child ride to another person who can help your child stop and turn.

– Erect obstacles for your child to navigate around so that your child becomes accustomed to handling the vehicle.
– Your child should also try to ride as slowly as possible and in a standing position to get a better feeling for the motorcycle.
– Your child should not ride on terrain that exceeds your child’s capabilities and experience.
– Your child should hold the handlebar firmly with both hands and keep his or her feet on the footrests when riding.
– Make sure the maximum permissible weight of the rider is not exceeded.

Guideline

<table>
<thead>
<tr>
<th>Maximum rider weight</th>
<th>50 kg (110 lb.)</th>
</tr>
</thead>
</table>

– Check the spoke tension. (p. 91)

Info

The spoke tension must be checked after half an hour of operation.
- Run the engine in. (p. 22)

### 7.2 Running in the engine

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

<table>
<thead>
<tr>
<th>Guideline</th>
<th>Maximum engine performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the first 3 operating hours</td>
<td>&lt; 70 %</td>
</tr>
<tr>
<td>During the first 5 operating hours</td>
<td>&lt; 100 %</td>
</tr>
</tbody>
</table>

- Avoid fully opening the throttle!
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. 101)
- Check the front brake fluid level. (p. 73)
- Check the rear brake fluid level. (p. 80)
- Check the front brake linings. (p. 75)
- Check the rear brake linings. (p. 82)
- Check that the brake system is functioning properly.
- Check the coolant level. (p. 93)
- Check the chain for dirt. (p. 62)
- Check the chain, rear sprocket, engine sprocket, and chain guide. (p. 64)
- Check the chain tension. (p. 63)
- Check the tire condition. (p. 89)
- Check tire pressure. (p. 90)
- Check the spoke tension. (p. 91)

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

- Clean the dust boots of the fork legs. (p. 41)
- Bleed the fork legs. (p. 40)
- Check the air filter.
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check all screws, nuts, and hose clamps regularly for tightness.
- Check the fuel level.

8.2 Starting the vehicle

**Danger**
**Danger of poisoning** Exhaust gases are toxic and inhaling them may result in unconsciousness and death.
- Always 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.
8 RIDING INSTRUCTIONS

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. 99)
– Turn the knurled screw on the fuel tap all the way counterclockwise.
  ✔ Fuel can flow from the fuel tank to the carburetor.
– Remove the motorcycle from the stand.
– Shift the transmission into neutral.

The engine is cold
– Push down the choke lever all the way to the stop.
– Press the kick starter lever robustly through its full range.

Info
Do not open the throttle.

8.3 Starting off

Info
The plug-in stand must be removed prior to riding.

– Pull the clutch lever, engage 1st gear, release the clutch lever slowly and simultaneously 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.
– Make it clear to your child that he or she must not change into a low gear at high engine speed.

Info
If unusual noises occur while riding, stop immediately, switch off the engine, and contact an authorized Husqvarna Motorcycles workshop. First gear is used for starting off and for steep inclines.

– When conditions allow (incline, road situation, etc.), your child can shift into a higher gear. 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 was 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.
– Your child should always open the throttle only as much as the engine can handle – abruptly opening the throttle 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.
– Your child should switch off the engine if prolonged operation at idle speed or while stationary is imminent.

**Guideline**

≥ 2 min

– Your child should avoid frequent or extended slipping of the clutch. This causes the gear oil, engine and cooling system to heat up.
– Insist that your child ride with a low rpm instead of with a high rpm and a slipping clutch.

### 8.5 Applying the brakes

**Warning**

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

– Explain to your child that he or she must adapt the braking to the traffic situation and the road 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 allow your child to continue riding until the problem is eliminated. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Warning**

**Danger of accidents** Moisture and dirt impair the brake system.

– Explain to your child that he or she must 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.
– Always finish braking before you go into a bend. Your child should change down to a lower gear appropriate to the road speed.
– Insist that your child take advantage of the braking action of the engine when riding on long downhills. To do so, shift back one or two gears, but do not overrev the engine. Your child will need to apply the brakes far less often 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**

**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.

**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.

- Apply the brakes on the motorcycle.
- Shift the transmission into neutral.
- 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.
- Park the motorcycle on firm ground.

### 8.7 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.
- Use tension belts or other suitable devices to secure the motorcycle against falling over or rolling away.

### 8.8 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. 17)
- Fill the fuel tank with fuel up to measurement A.

**Guideline**

<table>
<thead>
<tr>
<th>Measurement of A</th>
<th>35 mm (1.38 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank capacity, approx.</td>
<td>3.7 l (3.9 qt.)</td>
</tr>
</tbody>
</table>

Engine oil, 2-stroke (p. 117)
- Close the fuel tank filler cap. (p. 17)
## 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 Husqvarna Motorcycles Dealer.net. Your authorized Husqvarna Motorcycles dealer will be glad to advise you.

## 9.2 Required work

<table>
<thead>
<tr>
<th>Every 80 operating hours</th>
<th>Every 40 operating hours</th>
<th>Every 20 operating hours</th>
<th>After 10 operating hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check the front brake linings. (<a href="#">p. 75</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the rear brake linings. (<a href="#">p. 82</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the brake discs. (<a href="#">p. 72</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the brake lines for damage and leakage.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Change the foot brake cylinder sealing cup.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the rear brake fluid level. (<a href="#">p. 80</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the free travel of the foot brake lever. (<a href="#">p. 78</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the frame. (<a href="#">p. 67</a>)</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the link fork. (<a href="#">p. 67</a>)</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the fork bearing for play.</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the shock absorber heim joint for play.</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the tire condition. (<a href="#">p. 89</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check tire pressure. (<a href="#">p. 90</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the wheel bearing for play.</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the wheel hubs.</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the rim run-out.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the spoke tension. (<a href="#">p. 91</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the chain, rear sprocket, engine sprocket, and chain guide. (<a href="#">p. 64</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the chain tension. (<a href="#">p. 63</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Grease all moving parts (e.g., hand lever, chain, ...) and check for smooth operation.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the fluid level of the hydraulic clutch. (<a href="#">p. 69</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the front brake fluid level. (<a href="#">p. 73</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the free travel of the hand brake lever. (<a href="#">p. 72</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the steering head bearing play. (<a href="#">p. 47</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Change the spark plug and spark plug connector.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Change the gear oil. (<a href="#">p. 101</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the gear oil level. (<a href="#">p. 101</a>)</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check the clutch.</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
<td>● ● ● ●</td>
</tr>
<tr>
<td>Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the antifreeze and coolant level. (<a href="#">p. 92</a>)</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
<tr>
<td>Check the cables for damage and routing without sharp bends.</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
<td>○ ● ● ●</td>
</tr>
</tbody>
</table>
Every 80 operating hours

Every 40 operating hours

Every 20 operating hours

After 10 operating hours

Check that the throttle cables are undamaged, routed without sharp bends, and set correctly. ○ ● ● ●

Clean the air filter and air filter box. (p. 57) ○ ● ● ●

Change the glass fiber yarn filling of the main silencer. (p. 59) ● ● ●

Service the fork. ● ● ●

Perform the shock absorber service. ● ● ●

Check the tightness of the easily accessible, safety-relevant screws and nuts. ○ ● ● ●

Check the idle speed. ○ ● ● ●

Final check: Check the vehicle for safe operation and take a test ride. ○ ● ● ●

Make a service entry in **Husqvarna Motorcycles Dealer.net**. ○ ● ● ●

○ One-time interval

● Periodic interval

<table>
<thead>
<tr>
<th>9.3 Recommended work</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>every 48 months</strong></td>
</tr>
<tr>
<td><strong>every 12 months</strong></td>
</tr>
<tr>
<td><strong>Every 80 operating hours</strong></td>
</tr>
<tr>
<td><strong>Every 40 operating hours</strong></td>
</tr>
<tr>
<td><strong>After 20 operating hours / Every 20 operating hours</strong></td>
</tr>
<tr>
<td><strong>After 10 operating hours</strong></td>
</tr>
<tr>
<td>Change the front brake fluid.</td>
</tr>
<tr>
<td>Change the rear brake fluid.</td>
</tr>
<tr>
<td>Change the hydraulic clutch fluid. (p. 70)</td>
</tr>
<tr>
<td>Lubricate the steering head bearing. (p. 48)</td>
</tr>
<tr>
<td>Service the fork.</td>
</tr>
<tr>
<td>Perform the shock absorber service.</td>
</tr>
<tr>
<td>Check/set the carburetor components.</td>
</tr>
<tr>
<td>Change the coolant. (p. 95)</td>
</tr>
<tr>
<td>Perform minor engine service. Check the cylinder and piston. Check the inlet membrane. Check the exhaust control for functioning and smooth operation.)</td>
</tr>
<tr>
<td>Perform major engine service including removing and installing the engine. (Change the spring of the exhaust control. Change the piston. Change the connecting rod, conrod bearing and crank pin. Change the crankshaft bearing. Check the transmission and shift mechanism. Change all engine bearings.)</td>
</tr>
</tbody>
</table>

○ One-time interval

● Periodic interval
10.1 Checking the basic chassis setting with rider's weight

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.
- In the delivered condition, this vehicle is adjusted for an average rider's weight (with full protective clothing).

Guideline

| Standard rider weight | 35 … 45 kg (77 … 99 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 5235

Air suspension WP XACT 5235 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.

The rebound damping can be adjusted.

The rebound adjustment is located at the upper end of the right fork leg.
10.3 Compression damping of the shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed. High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.

The high-speed compression 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 Husqvarna 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 1 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

<table>
<thead>
<tr>
<th>Low-speed compression damping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort</td>
</tr>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>Sport</td>
</tr>
</tbody>
</table>

Info
Turn clockwise to increase damping; turn counterclockwise to reduce damping.
10 TUNING THE CHASSIS

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 Husqvarna 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.

<table>
<thead>
<tr>
<th>Guideline</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-speed compression damping</td>
</tr>
<tr>
<td>Comfort</td>
</tr>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>Sport</td>
</tr>
</tbody>
</table>

**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 Husqvarna 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

<table>
<thead>
<tr>
<th>Rebound damping</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort</td>
<td>18 clicks</td>
</tr>
<tr>
<td>Standard</td>
<td>15 clicks</td>
</tr>
<tr>
<td>Sport</td>
<td>12 clicks</td>
</tr>
</tbody>
</table>

**Info**

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

---

### 10.7 Measuring the dimension of the rear wheel unloaded

**Preparatory work**

– Raise the motorcycle with a lift stand. (p. 40)

**Main work**

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

<table>
<thead>
<tr>
<th>Sag gauge (00029090500)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin, sag scale (00029990010)</td>
</tr>
</tbody>
</table>

– Note the value as dimension A.

**Finishing work**

– Remove the motorcycle from the lift stand. (p. 40)
### 10.8 Checking the static sag of the shock absorber

- Measure dimension A of rear wheel unloaded. (p. 33)
- 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.

**Info**

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

- Check the static sag.

<table>
<thead>
<tr>
<th>Static sag</th>
<th>30 mm (1.18 in)</th>
</tr>
</thead>
</table>

» If the static sag is less or more than the specified value:
  - Adjust the spring preload of the shock absorber. (p. 35)

### 10.9 Checking the riding sag of the shock absorber

- Measure dimension A of rear wheel unloaded. (p. 33)
- 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 C.

**Info**

The riding sag is the difference between measurements A and C.

- Check riding sag.

**Guideline**

<table>
<thead>
<tr>
<th>Riding sag</th>
<th>70 mm (2.76 in)</th>
</tr>
</thead>
</table>

» If the riding sag differs from the specified measurement:
  - Adjust the riding sag. (p. 36)
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 Husqvarna Motorcycles workshop will be glad to help.)

### Preparatory work

- Raise the motorcycle with a lift stand. (p. 40)
- Remove the right side cover. (p. 50)
- Remove main silencer. (p. 58)
- Remove the shock absorber. (p. 54)
- After removing the shock absorber, clean it thoroughly.

### Main work

- Measure the full spring length while it is under tension and note down the value.
- Loosen retaining ring 1.
- Turn adjusting ring 2 until the spring is no longer under tension.

| Combination wrench (50329080000) |
| Hook wrench (T304) |

**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 4.

**Guideline**

| Spring preload | 5 mm (0.2 in) |

**Info**

The spring preload is the difference between the relaxed spring length and the tensioned spring length. Depending on the static sag and/or the riding sag, it may be necessary to increase or decrease the spring preload.

- Tighten retaining ring 1.

### Finishing work

- Install the shock absorber. (p. 55)
- Install the main silencer. (p. 58)
- Install the right side cover. (p. 51)
- Remove the motorcycle from the lift stand. (p. 40)
10.11 Adjusting the riding sag

**Preparatory work**
- Raise the motorcycle with a lift stand. (p. 40)
- Remove the right side cover. (p. 50)
- Remove main silencer. (p. 58)
- Remove the shock absorber. (p. 54)
- After removing the shock absorber, clean it thoroughly.

**Main work**
- Choose and mount a suitable spring.

<table>
<thead>
<tr>
<th>Guideline</th>
<th>Spring rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of rider: 35 kg (77 lb.)</td>
<td>35 N/mm (200 lb/in)</td>
</tr>
<tr>
<td>Weight of rider: 40 kg (88 lb.)</td>
<td>40 N/mm (228 lb/in)</td>
</tr>
<tr>
<td>Weight of rider: 45 kg (99 lb.)</td>
<td>45 N/mm (257 lb/in)</td>
</tr>
</tbody>
</table>

**Info**
The spring rate is shown on the outside of the spring. Smaller weight differences can be compensated by changing the spring preload.

**Finishing work**
- Install the shock absorber. (p. 55)
- Install the main silencer. (p. 58)
- Install the right side cover. (p. 51)
- Remove the motorcycle from the lift stand. (p. 40)
- Check the static sag of the shock absorber. (p. 34)
- Check the riding sag of the shock absorber. (p. 34)
- Adjust the rebound damping of the shock absorber. (p. 32)

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.
10.13 Adjusting the fork air pressure

**Warning**

**Danger of accidents** 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.
- Make sure your child rides slowly to start with after making adjustments in order that he or she can assess 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 rebound damping is located in the right fork leg.

---

**Preparatory work**

- Raise the motorcycle with a lift stand. (p. 40)

**Main work**

- Remove protection cap 1.
- Push together fork airpump 2 fully.

Fork airpump (79412966100)

**Info**

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 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. Observe the accompanying instructions for Husqvarna Motorcycles technical accessories.

- Adjust the air pressure as specified.

**Guideline**

<table>
<thead>
<tr>
<th>Air pressure</th>
<th>3 bar (44 psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gradual changing of the air</td>
<td>0.2 bar (3 psi)</td>
</tr>
<tr>
<td>pressure in steps of</td>
<td></td>
</tr>
<tr>
<td>Minimum air pressure</td>
<td>1.4 bar (20 psi)</td>
</tr>
<tr>
<td>Maximum air pressure</td>
<td>4 bar (58 psi)</td>
</tr>
</tbody>
</table>

**Info**

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

- Disconnect the fork airpump from the left fork leg.
10 TUNING THE CHASSIS

When disconnecting, excess pressure will escape from the hose – the fork leg does not lose any air.

The fork pump airpump 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. 40)

10.14 Adjusting the rebound damping of the fork

Info
The hydraulic rebound damping determines the fork suspension behavior.

Turn adjuster 1 clockwise all the way.

Info
Adjuster 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

<table>
<thead>
<tr>
<th>Rebound damping</th>
<th>Comfort</th>
<th>15 clicks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>12 clicks</td>
</tr>
<tr>
<td></td>
<td>Sport</td>
<td>10 clicks</td>
</tr>
</tbody>
</table>

Info

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

10.15 Handlebar position

On the upper triple clamp, there are 2 holes at a distance of A to each other.

Hole distance A 15 mm (0.59 in)

The holes on the handlebar supports are placed at a distance of B from the center.

Hole distance B 3.5 mm (0.138 in)

The handlebar supports can be mounted in four different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.
10.16 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.

- Remove screws 1. Take off the handlebar clamps. 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.
- Place handlebar supports in required position. Mount and tighten screws 2.

**Guideline**  
<table>
<thead>
<tr>
<th>Screw, handlebar support</th>
<th>M10</th>
<th>40 Nm (29.5 lbf ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loctite® 243™</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Position the handlebar.

**Info**  
Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamps. Mount screws 1 and tighten evenly.

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

**Info**  
Make sure the installed gaps are even.
11.1 Raising the motorcycle with a lift stand

Note
Danger of damage  The parked vehicle can roll away or fall over.
– Park the vehicle on a firm and level surface.

– Raise the motorcycle at the frame underneath the engine.
  Lift stand (80329955100)
  ✔ Neither wheel is in contact with the ground.
  – Secure the motorcycle against falling over.

11.2 Removing the motorcycle from the lift stand

Note
Danger of damage  The parked vehicle can roll away or fall over.
– Park the vehicle on a firm and level surface.

– Remove the motorcycle from the lift stand.
– Remove the lift stand.
– To park the motorcycle, insert plug-in stand 1 into the plug-in stand bracket on the left side of the vehicle.

Info
Remove the plug-in stand before riding.

11.3 Bleeding the fork legs

Preparatory work
– Raise the motorcycle with a lift stand. (p. 40)

Main work
– Release bleeder screws 1.
  ✔ Any excess pressure escapes from the interior of the fork.
– Tighten the bleeder screws.

Finishing work
– Remove the motorcycle from the lift stand. (p. 40)
11.4 Cleaning the dust boots of the fork legs

**Preparatory work**
- Raise the motorcycle with a lift stand. (p. 40)
- Remove the fork protector. (p. 41)

**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 seals rings behind can start to leak.

**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 inside fork tubes of both fork legs.

**Universal oil spray** (p. 120)
- Press the dust boots back into the installation position.
- Remove the excess oil.

**Finishing work**
- Install the fork protector. (p. 42)
- Remove the motorcycle from the lift stand. (p. 40)

11.5 Removing the fork protector

- Remove screws 1 and take off the clamp.
- Remove screws 2 on the left fork leg. Take off the fork protector.
11 SERVICE WORK ON THE CHASSIS

11.6 Installing the fork protector

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

Guideline

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

- Position the fork protector on left fork leg. Mount and tighten screws 2.

Guideline

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

- Position the brake line and the clamp. Mount and tighten screws 3.

Guideline

| Screw, brake line holder | EJOT | 1.7 Nm (1.25 lbf ft) |

Clamp the brake line only via the metal bushing.
Make sure that the upper edge of the bushing is as flush as possible with the bracket.

11.7 Removing the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. ( p. 40)
- Remove the front wheel. ( p. 86)

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 kink the brake line.
11.8 Installing the fork legs

Main work
- Position the fork legs.
  - Bleeder screws are positioned toward the rear.
  - Info
    The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.

- Tighten screws.
  Guideline
  Screw, top triple clamp: M8 20 Nm (14.8 lbf ft)
  Screw, bottom triple clamp: M8 15 Nm (11.1 lbf ft)

- Position the brake caliper, and mount and tighten screws.
  Guideline
  Screw, front brake caliper: M8 20 Nm (14.8 lbf ft)
  Screw, brake line holder: EJOT 1.7 Nm (1.25 lbf ft)
  Loctite® 243™

- Position the brake line and the clamp. Mount and tighten screws.
  Guideline
  Screw, brake line holder: EJOT 1.7 Nm (1.25 lbf ft)
  Clamp the brake line only via the metal bushing.
  Make sure that the upper edge of the bushing is as flush as possible with the bracket.

Finishing work
- Install the front wheel. (p. 86)
11.9 Removing the lower triple clamp

Preparatory work
- Raise the motorcycle with a lift stand. (p. 40)
- Remove the front wheel. (p. 86)
- Remove the fork legs. (p. 42)
- Remove the start number plate. (p. 48)
- Remove front fender. (p. 49)

Main work
- Pull fuel tank breather 1 out of the steering stem.
- Remove nut 2.
- Release screw 3, take off the upper triple clamp with the handlebar and set aside.

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

- Remove protective ring 4.
- Remove the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.
11.10 Installing the lower triple clamp

Main work
- Clean the bearing and sealing elements, check for damage, and grease.
  
  High viscosity grease (p. 119)
- Insert the lower triple clamp with the steering stem. Mount upper steering head bearing 1.
- Check whether upper steering head seal 2 is correctly positioned.
- Push on protective ring 3.

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

  Guideline
  Nut, steering head | M20x1.5 | 10 Nm (7.4 lbf ft)

- Position the fork legs.

  Bleeder screws 5 are positioned toward the rear.

  Info
  The upper milled groove in the fork leg must be flush with the upper edge of the upper triple clamp.
### 11 SERVICE WORK ON THE CHASSIS

- **Tighten screws 6.**
  
  Guideline
  
  | Screw, bottom triple clamp | M8 | **15 Nm (11.1 lbf ft)** |

- **Tighten nut 4.**
  
  Guideline
  
  | Nut, steering head M20x1.5 | **10 Nm (7.4 lbf ft)** |

- Position the fuel tank breather 7 in the steering stem.

- **Tighten bolt 3.**
  
  Guideline
  
  | Screw, steering stem M8 | **20 Nm (14.8 lbf ft)** |

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

- **Tighten screws 9.**
  
  Guideline
  
  | Screw, top triple clamp | M8 | **20 Nm (14.8 lbf ft)** |

- Position the brake caliper, and mount and tighten screws 10.
  
  Guideline
  
  | Screw, front brake caliper M8 | **20 Nm (14.8 lbf ft)** |

- Position the brake line and the clamp. Mount and tighten screws 11.
  
  Guideline
  
  | Screw, brake line holder EJOT | **1.7 Nm (1.25 lbf ft)** |

  Clamp the brake line only via the metal bushing.

  Make sure that the upper edge of the bushing is as flush as possible with the bracket.

### Finishing work

- Check that the wiring harness, throttle cable, and brake and clutch lines can move freely and are routed correctly.
- Install front fender. (p. 49)
- Install the start number plate. (p. 48)
- Install the front wheel. (p. 86)
- Check the steering head bearing play. (p. 47)
- Remove the motorcycle from the lift stand. (p. 40)
11.11 Checking the 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 Husqvarna 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**

- Raise the motorcycle with a lift stand. (p. 40)

**Main work**

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

  Play should not be detectable on the steering head bearing.

  » If there is detectable play:
    - Adjust the steering head bearing play. (p. 47)
    - 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 the steering head bearing play. (p. 47)
    - Check the steering head bearing and replace if required.

**Finishing work**

- Remove the motorcycle from the lift stand. (p. 40)

---

11.12 Adjusting the steering head bearing play

**Preparatory work**

- Raise the motorcycle with a lift stand. (p. 40)

**Main work**

- Pull fuel tank breather 1 out of the steering stem.
- Loosen screws 2.
- Loosen screw 3.
- Loosen and retighten nut 4.

  **Guideline**

  | Nut, steering head | M20x1.5 | 10 Nm (7.4 lbf ft) |

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screw 3.
11.13 Lubricating the steering head bearing

- Remove the lower triple clamp. (\(\text{p. 44})
- Install the lower triple clamp. (\(\text{p. 45})

Info

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

11.14 Removing the start number plate

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

11.15 Installing the start number plate

- Attach the start number plate to the brake line.
- Position the start number plate.
- Holding lugs 1 engage in the fender.
- Mount and tighten screw ②.
  Guideline

| Start number plate screw | M6 | 4 Nm (3 lbf ft) |

11.16 Removing front fender

- Remove screws ①. Take off the front fender.

11.17 Installing front fender

- Position start number plate on the fender.
  - The holding lugs of the start number plate engage in drill holes ① of the fender.

- Position fender on the lower triple clamp, mount and tighten screws ②.
  Guideline

| Screw, fender | M6 | 6 Nm (4.4 lbf ft) |
11.18 Removing the right side cover

**Condition**
Right side cover secured.
- Remove screw 1.

- Pull off the side cover sideways in areas A and B, and remove toward the front.
11.19 Installing the right side cover

- Position the side cover on collar bushings 1 and 2, and push toward the rear.
- Engage the side cover in areas A and B.

**Condition**
Right side cover secured.
- Mount and tighten screw 3.

**Guideline**

| Screw, side cover | EJOT PT® K60x20-Z | 2 Nm (1.5 lbf ft) |

11.20 Securing right side cover

**Preparatory work**
- Remove the right side cover. (p. 50)
Main work
– Drill a hole at marking A.

Guideline

| Diameter      | 6.5 mm (0.256 in) |

Finishing work
– Install the right side cover. (p. 51)

11.21 Removing the left side cover

Condition
Left side cover secured.
– Remove screw 1.
11.22 Installing the left side cover

- Pull off the side cover sideways in areas A and B, and remove toward the front.

- Position the side cover on collar bushings 1 and 2, and push toward the rear.
- Engage the side cover in areas A and B.

Condition
Left side cover secured.
- Mount and tighten screw 3.

Guideline
| Screw, side cover | EJOT PT® K60x20-Z | 2 Nm (1.5 lbf ft) |
11.23 Securing left side cover

Preparatory work
– Remove the left side cover. (p. 52)

Main work
– Drill a hole at marking A.
   Guideline
   Diameter 6.5 mm (0.256 in)

Finishing work
– Install the left side cover. (p. 53)

11.24 Removing the shock absorber

Preparatory work
– Raise the motorcycle with a lift stand. (p. 40)
– Remove the right side cover. (p. 50)
– Remove main silencer. (p. 58)

Main work
– Remove screws 1 with bushings and splash protector 2.
11.25 Installing the shock absorber

Main work
- Position the shock absorber and mount and tighten screw 1.

Guideline

<table>
<thead>
<tr>
<th>Screw, top shock absorber M10</th>
<th>45 Nm (33.2 lbf ft)</th>
<th>Loctite®243™</th>
</tr>
</thead>
</table>

- Mount and tighten screw 2.

Guideline

<table>
<thead>
<tr>
<th>Screw, bottom shock absorber M10</th>
<th>45 Nm (33.2 lbf ft)</th>
<th>Loctite®243™</th>
</tr>
</thead>
</table>

- Secure brake line 3 in the holder.
- Position splash protector 4, mount screws 5 with bushings and tighten.

Guideline

<table>
<thead>
<tr>
<th>Screw, splash protector EJOT PT® K60x25-Z</th>
<th>2 Nm (1.5 lbf ft)</th>
</tr>
</thead>
</table>

Finishing work
- Install the main silencer. (p. 58)
- Install the right side cover. (p. 51)
- Remove the motorcycle from the lift stand. (p. 40)

11.26 Removing the seat

- Open quick release 1 and raise the rear of the seat.
- Pull back the seat and remove it.
11.27 Mounting the seat

- Hook seat onto screw 1 and lower the seat at the rear and push it forward.
  - Holding lug 2 hooks into the fuel tank.

- Close quick release 3.

11.28 Removing the air filter

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
- Remove the seat. (p. 55)

Main work
- Detach air filter holding bracket 1 at the bottom and swing it to one side. Remove the air filter with the air filter support.
- Remove the air filter from the air filter support.
11.29 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. 119)

- Insert both parts together, position them, and secure them using air filter holding bracket 1.

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

Finishing work
- Mount the seat. (p. 56)

11.30 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.

Preparatory work
- Remove the seat. (p. 55)
- Remove the air filter. (p. 56)

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

Air filter cleaner (p. 119)

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.

Oil for foam air filter (p. 119)

- Clean the air filter box.
- Check intake flange for damage and looseness.
11 SERVICE WORK ON THE CHASSIS

11.31 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.

**Preparatory work**
– Remove the right side cover. (p. 50)

**Main work**
– Remove screw 1.
– Pull off the main silencer from the manifold at exhaust sleeve 2.

11.32 Installing the main silencer

– Mount the main silencer with intake sleeve 1.
– Position wide collar bushing 2 and narrow collar bushing 3.
– Mount and tighten screw 4.

**Guideline**

<table>
<thead>
<tr>
<th>Remaining screws, chassis</th>
<th>M6</th>
<th>10 Nm (7.4 lbf ft)</th>
</tr>
</thead>
</table>
11.33 Changing the glass fiber yarn filling of 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 glass fiber yarn filling escape and the damper “burns” out. Not only is the noise level higher, but the performance characteristics change.

---

**Preparatory work**

– Remove the right side cover. (p. 50)

– Remove main silencer. (p. 58)

**Main work**

– Remove screws with toothed washers 1 from the silencer cap 2.

– Remove end cap and outer tube 3.

– Remove glass fiber yarn filling 4 from the inner tube.

– Clean the parts that need to be reinstalled and check for damage.

– Mount the new glass fiber yarn filling on the inner tube.

– Slide the outer tube over the glass fiber yarn filling.

– Insert the end cap into the outer tube.

– Mount and tighten the screws with the toothed washers.

**Guideline**

<table>
<thead>
<tr>
<th>Remaining screws, chassis</th>
<th>M6</th>
<th>10 Nm (7.4 lbf ft)</th>
</tr>
</thead>
</table>

**Finishing work**

– Install the main silencer. (p. 58)

---

11.34 Removing the fuel tank

**Danger**

**Fire hazard**  Fuel is highly flammable.

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

– Do not 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. 55)
- Remove the right side cover. (p. 50)
- Remove the left side cover. (p. 52)
- Turn the knurled screw on the fuel tap all the way clockwise.

**Main work**

- Remove screw 1.

- Remove screws 2.

- Pull off fuel hose 3.

---

**Info**  Remaining fuel may flow out of the fuel hose.

- Pull fuel tank breather out of the steering stem.
- Pull both spoilers off laterally from the radiator bracket and lift off the fuel tank.
### 11.35 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.
- Keep fuels correctly in a suitable canister, and out of the reach of children.

---

**Main work**
- Check the throttle cable routing. (p. 67)
- Position the fuel tank and fit the two spoilers to the sides of the radiator mount.
- Make sure that no cables or throttle cables are trapped or damaged.
- Mount fuel hose ①.
- Mount and tighten screws ②.

**Guideline**

<table>
<thead>
<tr>
<th>Screw, fuel tank spoiler on radiator</th>
<th>M6</th>
<th>6 Nm (4.4 lbf ft)</th>
</tr>
</thead>
</table>
– Mount and tighten screw 3.

**Guideline**

<table>
<thead>
<tr>
<th>Remaining screws, chassis</th>
<th>M6</th>
<th>10 Nm (7.4 lbf ft)</th>
</tr>
</thead>
</table>

– Position the fuel tank breather in the steering stem.

**Finishing work**
– Install the right side cover. (p. 51)
– Install the left side cover. (p. 53)
– Mount the seat. (p. 56)

### 11.36 Checking the chain for dirt

– Check the chain for coarse dirt accumulation.
  » If the chain is very dirty:
    – Clean the chain. (p. 62)

### 11.37 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. 40)
Main work
– Rinse off loose dirt with a soft jet of water.
– Remove old grease residue with chain cleaner.

<table>
<thead>
<tr>
<th>Chain cleaner (p. 119)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off-road chain spray (p. 119)</td>
</tr>
</tbody>
</table>

– After drying, apply chain spray.

Finishing work
– Remove the motorcycle from the lift stand. (p. 40)

11.38 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
– Raise the motorcycle with a lift stand. (p. 40)

Main work
– Press the chain upward at the end of the chain sliding piece and determine chain tension A.

<table>
<thead>
<tr>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top chain section 1 must be taut. Chain wear is not always even, so you should repeat this measurement at different chain positions.</td>
</tr>
</tbody>
</table>

| Chain tension | 5 ... 8 mm (0.2 ... 0.31 in) |

– If the chain tension does not meet the specification:
  – Adjust the chain tension. (p. 64)

Finishing work
– Remove the motorcycle from the lift stand. (p. 40)
11 SERVICE WORK ON THE CHASSIS

11.39 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. 40](#))
– Check the chain tension. ([p. 63](#))

**Main work**

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

**Guideline**

<table>
<thead>
<tr>
<th>Chain tension</th>
<th>5 … 8 mm (0.2 … 0.31 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn the adjusting screws 3 on the left and right so that the markings on the left and right chain adjusters 4 are in the same position relative to the reference marks A. The rear wheel is then correctly aligned.</td>
<td></td>
</tr>
</tbody>
</table>
– Tighten nuts 2.
– Make sure that chain adjusters 4 are fitted correctly on adjusting screws 3.
– Tighten nut 1.

**Guideline**

| Nut, rear wheel spindle | M14x1.5 | 40 Nm (29.5 lbf ft) |

**Finishing work**

– Remove the motorcycle from the lift stand. ([p. 40](#))

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

**Preparatory work**

– Raise the motorcycle with a lift stand. ([p. 40](#))
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**
The engine sprocket, rear sprocket and chain should always be replaced together. When fitting the chain joint, always make sure that the closed side of the joint faces forward (direction of travel).

– Check the engine sprocket cover for wear.
  » If the engine sprocket cover is worn through in the marked area A:
    – Change the engine sprocket cover.
  – Check the engine sprocket cover for tightness.
    » If the engine sprocket cover is loose:
      – Tighten the engine sprocket cover.

**Guideline**

<table>
<thead>
<tr>
<th>Screw, engine sprocket cover</th>
<th>M6</th>
<th>8 Nm (5.9 lbf ft)</th>
</tr>
</thead>
</table>

– 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 the chain sliding guard.

**Guideline**

| Remaining screws, chassis | M6 | 10 Nm (7.4 lbf ft) |
– 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 the chain sliding piece.

Guideline

<table>
<thead>
<tr>
<th>Screw, chain sliding piece</th>
<th>M8</th>
<th>15 Nm (11.1 lbf ft)</th>
</tr>
</thead>
</table>

– Check the chain guide for wear.

**Info**

Wear can be seen on the front of the chain guide.

» If the light part of the chain guide is worn:
  – Change the chain guide.

– Check that the chain guide is firmly seated.

» If the chain guide is loose:
  – Tighten the chain guide.

Guideline

<table>
<thead>
<tr>
<th>Remaining screws, chassis</th>
<th>M6</th>
<th>10 Nm (7.4 lbf ft)</th>
</tr>
</thead>
</table>

**Finishing work**

– Remove the motorcycle from the lift stand. (p. 40)
11.41 Checking the frame

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

  Guideline
  Repairs on the frame are not permitted.

11.42 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.

11.43 Checking the 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. 55)
- Remove the right side cover. (p. 50)
- Remove the left side cover. (p. 52)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. (p. 59)

**Main work**

- Check the throttle cable routing.

  The throttle cable must be routed behind the handlebar, behind the coolant hose and on the left of the frame.

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

**Finishing work**

- Install the fuel tank. (p. 61)
- Install the right side cover. (p. 51)
- Install the left side cover. (p. 53)
11 SERVICE WORK ON THE CHASSIS

11.44 Checking the rubber grip

- Check the rubber grips on the handlebar for damage, wear, and looseness.
  - If a rubber grip is damaged, worn, or loose:
    - Change the rubber grip.
    - Additionally secure the rubber grip.

Rubber grip adhesive (00062030051) (p. 120)
- Additionally secure the rubber grip. (p. 68)

11.45 Additionally securing the rubber grip

Preparatory work
- Check the rubber grip. (p. 68)

Main work
- Secure the rubber grip at two locations with the retaining wire.

Securing wire (54812016000)
Wire twister forceps (U6907854)
✓ The twisted wire ends face away from the palms and are bent in toward the rubber grip.

11.46 Adjusting the basic position of the clutch lever

- Adjust the basic position of the clutch lever to the size of the rider’s hand using adjusting screw 1.

Info
- Turn the adjusting screw clockwise to increase the distance between the clutch lever and the handlebar.
- Turn the adjusting screw counterclockwise to decrease 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 force.
- Do not make any adjustments while riding.
11.47 Checking the fluid level of the hydraulic clutch

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

- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Check the fluid level in viewer 1.
  - If the fluid has dropped below marking A in the level viewer:
    - Correct the fluid level of the hydraulic clutch.
    (p. 69)

11.48 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 eyes.
- 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.
- Correct the fluid up to level A.

**Guideline**

<table>
<thead>
<tr>
<th>Level A (fluid level below container rim)</th>
<th>4 mm (0.16 in)</th>
</tr>
</thead>
</table>

**Brake fluid DOT 4 / DOT 5.1** (p. 117)

- Position the cover with the membrane. Mount and tighten the screws.
11 SERVICE WORK ON THE CHASSIS

## 11.49 Changing the hydraulic clutch fluid

### 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.

### 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 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.

- Fill bleeding syringe 4 with the appropriate hydraulic fluid.  

### Syringe (50329050000)

Brake fluid DOT 4 / DOT 5.1 (p. 117)

- On the slave cylinder, remove the bleeder screw and mount bleeding syringe 4.
- Inject the liquid into the system only until it emerges from drill hole 5 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.
12 BRAKE SYSTEM

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.

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

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

- If the free travel does not match the specification:
  - Adjust the basic position of the hand brake lever. (p. 72)

12.2 Adjusting the basic position of the hand brake lever

- Check the free travel of the hand brake lever. (p. 72)
- Adjust the basic position of the hand brake lever using 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.
- Turn the adjusting screw by hand only, and do not apply any 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 Husqvarna Motorcycles workshop will be glad to help.)
Check the front and rear brake disc thickness at multiple points for the dimension A.

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

<table>
<thead>
<tr>
<th>Brake discs - wear limits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>front</td>
<td>2.5 mm (0.098 in)</td>
</tr>
<tr>
<td>rear</td>
<td>2.5 mm (0.098 in)</td>
</tr>
</tbody>
</table>

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 Husqvarna 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 Husqvarna Motorcycles workshop will be glad to help.)

Move the brake fluid reservoir mounted on the handlebar to a horizontal position.

Check the brake fluid level in level viewer 1.
If the brake fluid level has dropped below the marking A:
- Add the front brake fluid. (p. 74)
12.5 Adding the front 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 Husqvarna 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 Husqvarna 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. 75)

**Main work**

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

Guideline

<table>
<thead>
<tr>
<th>Brake fluid level under top level of container</th>
<th>5 mm (0.2 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake fluid DOT 4 / DOT 5.1 (p. 117)</td>
<td></td>
</tr>
</tbody>
</table>

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

Info

Immediately clean up any brake fluid that has overflowed or spilled 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 Husqvarna 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. 75)

Check the brake linings for damage and cracking.

⇒ If damage or wear is encountered:
  – Change the brake linings of the front brake. (p. 75)

12.7 Changing the brake linings of the front brake

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 Husqvarna 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.

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Take off cover 2 with membrane 3.
- Remove lock washer 4.
- Loosen screw 5.
- Remove screws 6.
- Carefully pull the brake caliper backward from the brake disc.
- Remove screw 5.

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 brake discs. (p. 72)
- Remove the brake linings.
- Clean the brake caliper and the brake caliper bracket.
- Press the brake piston back into the basic position and ensure that brake fluid does not flow out of the brake fluid reservoir; extract some if 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 Husqvarna 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 manufacturer warranty shall be void.

– Only use brake linings approved and recommended by Husqvarna motorcycles.

– Position the new brake linings.

Info

Always change the brake linings in pairs.

Ensure that the brake linings are correctly positioned in the holding spring.

– Position the brake caliper.
– Mount and tighten screw 5 .

Guideline

<table>
<thead>
<tr>
<th>Screw, front brake linings</th>
<th>M6</th>
<th>10 Nm (7.4 lbf ft)</th>
</tr>
</thead>
</table>

– Mount lock washer 4 .
– Mount screws 6 , but do not tighten yet.

Guideline

<table>
<thead>
<tr>
<th>Screw, front brake caliper</th>
<th>M8</th>
<th>20 Nm (14.8 lbf ft) Loctite®243™</th>
</tr>
</thead>
</table>

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

✓ The brake caliper straightens.
– Tighten screws 6 .

Guideline

<table>
<thead>
<tr>
<th>Screw, front brake caliper</th>
<th>M8</th>
<th>20 Nm (14.8 lbf ft) Loctite®243™</th>
</tr>
</thead>
</table>

– Remove the locking piece of the hand brake lever.
12.8 Checking the free travel 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.

- 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 A.

<table>
<thead>
<tr>
<th>Guideline</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Free travel of foot brake lever</strong></td>
</tr>
</tbody>
</table>

- If the free travel does not match the specification:
  - Adjust the free travel of the hand brake lever. ◄ (p. 79)
  - Attach spring 1.
12.9 Adjusting the free travel 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 the foot brake lever spring.
- Loosen nut 1.
- Turn push rod 2 accordingly until you have free travel A.

**Guideline**

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

- Hold push rod 2 and tighten nut 1.
- Attach the foot brake lever spring.
- Check whether the basic position of the foot brake lever is suitable for the rider.
  - When the basic position of the foot brake lever needs to be adjusted:
    - Adjust the basic position of the foot brake lever. (p. 79)

12.10 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.
12 BRAKE SYSTEM

12.11 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 ensure that nobody drives the vehicle before the problem is eliminated. (Your authorized Husqvarna 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 Husqvarna Motorcycles workshop will be glad to help.)

Stand the vehicle upright.

- Check the brake fluid level in level viewer 1.
  
  » If an air bubble is visible in viewer 1:
    
    - Add rear brake fluid. ▲ (p. 81)
12.12 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 ensure that nobody drives the vehicle before the problem is eliminated. (Your authorized Husqvarna 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 Husqvarna 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**
- Raise the motorcycle with a lift stand. (p. 40)
- Check the rear brake linings. (p. 82)

**Main work**
- Remove screws 1.
- Take off cover 2 with washer 3 and membrane 4.
– Add brake fluid up to level A.

Guideline

<table>
<thead>
<tr>
<th>Level A (brake fluid level below reservoir rim)</th>
<th>10 mm (0.39 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake fluid DOT 4 / DOT 5.1 (p. 117)</td>
<td></td>
</tr>
</tbody>
</table>

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

Info

Clean up overflowed or spilled brake fluid immediately with water.

Finishing work
– Remove the motorcycle from the lift stand. (p. 40)

12.13 Checking the rear 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 Husqvarna 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 rear brake. (p. 82)
   – Check the brake linings for damage and cracking.
     » If damage or wear is encountered:
       – Change the brake linings of the rear brake. (p. 82)

12.14 Changing the brake linings of the rear brake

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 Husqvarna Motorcycles workshop will be glad to help.)

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

– Ensure that service work and repairs are performed professionally. (Your authorized Husqvarna 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
– Raise the motorcycle with a lift stand. (p. 40)

Main work
– Remove lock washer 1.
– Remove screw 2.

– Remove the brake linings.
– Remove screw 3.
– Remove screw 4 and take off the brake caliper.

Info
Cover the components to protect them against damage.

- Do not kink the brake line.

– Clean the brake caliper and the brake caliper bracket.
- Remove screws 5.
- Take off cover 6 with washer 7 and membrane 8.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir, extract brake fluid if necessary.
- Position the brake caliper.
- Mount and tighten screw 4.

Guideline

<table>
<thead>
<tr>
<th>Screw, rear brake caliper</th>
<th>M8x20</th>
<th>18 Nm (13.3 lbf ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Loctite® 243™</td>
</tr>
</tbody>
</table>

- Mount and tighten screw 3.

Guideline

<table>
<thead>
<tr>
<th>Screw, rear brake caliper</th>
<th>M8x40</th>
<th>18 Nm (13.3 lbf ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Loctite® 243™</td>
</tr>
</tbody>
</table>

**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 Husqvarna 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 manufacturer warranty shall be void.

- Only use brake linings approved and recommended by Husqvarna motorcycles.

- Position the new brake linings.

**Info**

Always change the brake linings in pairs.

Ensure that the brake linings are correctly positioned in the holding spring.
— Mount and tighten screw 2.

Guideline

| Screw, rear brake lining | M6 | 10 Nm (7.4 lbf ft) |

— Mount lock washer 1.
— Check the brake discs. (p. 72)
— 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 up to level A.

Guideline

| Level A (brake fluid level below reservoir rim) | 10 mm (0.39 in) |

| Brake fluid DOT 4 / DOT 5.1 (p. 117) |

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

Info

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

Finishing work

— Remove the motorcycle from the lift stand. (p. 40)
13.1 Removing the front wheel

**Preparatory work**
- Raise the motorcycle with a lift stand. (p. 40)

**Main work**
- Remove screw ₁.
- Loosen screws ₂.

**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 pull out wheel spindle ₃. Take the front wheel out of the fork.

**Info**

- Do not actuate the hand brake lever when the front wheel is removed.
- Remove spacers 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.
13.3 Removing the rear wheel

Preparatory work
- Raise the motorcycle with a lift stand. (p. 40)
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 A of the spacers.
  Long-life grease (p. 119)
- Insert the spacers.

Info
Insert the wide spacer on the left in the direction of travel.

- Clean and grease wheel spindle 2.
  Long-life grease (p. 119)
- Position the rear wheel and insert wheel spindle.
  ✓ The brake linings are correctly positioned.
- Mount the chain.
- Position chain adjuster 3 on both sides and push the wheel spindle in all the way.

- Mount nut 4, but do not tighten yet.
- Make sure that the chain adjusters are fitted correctly on the adjusting screws.
- Check the chain tension. (p. 63)
- Tighten nut 4.
  Guideline
  Nut, rear wheel spindle | M14x1.5 | 40 Nm (29.5 lbf ft)
  ✓ 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. 40)

13.5 Checking the tire condition

Info
Only mount tires approved and/or recommended by Husqvarna 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.

Husqvarna Motorcycles recommends that the tires be changed after 5 years at the latest, regardless of the actual wear.

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

### 13.6 Checking tire pressure

**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 protection cap.
– Check tire pressure when the tires are cold.

<table>
<thead>
<tr>
<th>Offroad tire pressure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>front</td>
<td>1.0 bar (15 psi)</td>
</tr>
<tr>
<td>rear</td>
<td>1.0 bar (15 psi)</td>
</tr>
</tbody>
</table>

» If the tire pressure does not meet specifications:
   – Correct 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 Husqvarna 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.

- Check the spoke torque.

**Guideline**

<table>
<thead>
<tr>
<th>Spoke nipple</th>
<th>M3.5</th>
<th>3 Nm (2.2 lbf ft)</th>
</tr>
</thead>
</table>

Torque wrench kit (58429094000)
14.1 Cooling system

The water pump 1 in the engine forces the coolant to flow. The pressure resulting from the warming of the cooling system is regulated by a valve in the 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 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.

- Stand the motorcycle upright on a horizontal surface.
- Take off radiator cap 1.
- Check the antifreeze in the coolant.

−25 ... −45 °C (−13 ... −49 °F)

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

- Check the coolant level in the radiator.

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

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

Coolant (p. 117)

- Mount the radiator cap.
14.3 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.

![Image](image_url)  
- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the coolant level in the radiator.

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

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

**Coolant (p. 117)**

- Mount the radiator cap.

14.4 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 the radiator cap.
- Completely drain the coolant.
- Mount and tighten screw 1 with a new seal ring.

**Guideline**

| Drain plug, water pump cover | M6 | 6 Nm (4.4 lbf ft) |

---

**14.5 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.

---

**Main work**

- Make sure that screw 1 is tightened.
- Position the motorcycle upright.
- Add coolant to level A.

**Guideline**

| Distance A above the radiator fins | 10 mm (0.39 in) |

| Coolant | 0.55 l (0.58 qt.) | Coolant (p. 117) |
Move the vehicle into the position shown and prevent it from rolling away. Height difference \( B \) must be reached.

**Guideline**

| Height difference | 50 cm (19.7 in) |

**Info**

For all of the air to be able to escape from the cooling system, the vehicle must be raised at the front. If the cooling system is poorly de-aerated, its cooling power will be reduced and the engine may overheat.

- Return the vehicle to the horizontal position.
- Add coolant to level \( A \).
- Mount the radiator cap.

**Finishing work**

- Go for a short test ride.
- Check the cooling system for leaks.
- Check the coolant level. (p. 93)

### 14.6 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.

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

Guideline

| Drain plug, water pump cover | M6 | 6 Nm (4.4 lb ft) |

- Make sure that screw ① is tightened.
- Add coolant to level A.

Guideline

<table>
<thead>
<tr>
<th>Distance A above the radiator fins</th>
<th>10 mm (0.39 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant</td>
<td>0.55 l (0.58 qt.)</td>
</tr>
<tr>
<td>Coolant (p. 117)</td>
<td></td>
</tr>
</tbody>
</table>

- Move the vehicle into the position shown and secure it against rolling away. Height difference B must be reached.

Guideline

| Height difference B | 50 cm (19.7 in) |

Info

For all of the air to be able to escape from the cooling system, the vehicle must be raised at the front. If the cooling system is poorly de-aerated, its cooling power will be reduced and the engine may overheat.

- Return the vehicle to the horizontal position.
- Add coolant to level A.
- Mount the radiator cap.

Finishing work

- Go for a short test ride.
- Check the cooling system for leaks.
- Check the coolant level. (p. 93)
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 | 3 … 5 mm (0.12 … 0.2 in) |

» If the throttle cable play does not meet the specified value:
  - Adjust the play in the throttle cable. \(^{(3)}\) (p. 97)

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 the play in the throttle cable. \(^{(3)}\) (p. 97)

15.2 Adjusting the play in the throttle cable

Preparatory work
- Remove the seat. \(^{(2)}\) (p. 55)
- Remove the right side cover. \(^{(2)}\) (p. 50)
- Remove the left side cover. \(^{(2)}\) (p. 52)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. \(^{(2)}\) (p. 59)
- Check the throttle cable routing. \(^{(2)}\) (p. 67)

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.
15 TUNING THE ENGINE

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

  Guideline
  
  Play in throttle cable 3 ... 5 mm (0.12 ... 0.2 in)

- Tighten nut 3.
- Slide on sleeve 1.

Finishing work
- Install the fuel tank. ( p. 61)
- Install the right side cover. ( p. 51)
- Install the left side cover. ( p. 53)
- Mount the seat. ( p. 56)
- Check the play in the throttle cable. ( p. 97)

15.3 Carburettor – idle speed

The idle setting of the carburetor has a big influence on the starting behavior, stable idle speed, and the response to throttle opening. 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 idle speed is adjusted using the idle speed adjusting screw 1.
The idle mixture is adjusted using the idle air adjusting screw 2.

15.4 Carburetor – adjusting the idle speed

- Screw in idle air adjusting screw 2 all the way and turn it to the specified basic setting.

  Guideline
  
  Idle air adjusting screw
  
  Open 3.5 turns

- Run the engine until warm.

  Guideline
  
  Warming-up phase ≥ 5 min

- Connect the special tool.

  Tachometer (45129075000)
**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 using idle speed adjusting screw **1**.

**Guideline**

**Choke function deactivated**  – The choke lever is pushed up all the way to the stop. (→ p. 18)

| Idle speed | 1,400 … 1,500 rpm |

- Turn idle air adjusting screw **2** 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 idling jet, start from the beginning with the adjusting steps.

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

### 15.5 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.
  ✔  No more fuel flows from the 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.
16.1 Checking the gear oil level

**Condition**
The engine is cold.

**Preparatory work**
- Stand the motorcycle upright on a horizontal surface.

**Main work**
- Remove 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. 102)
- Mount and tighten screw 1.

**Guideline**

| Screw, gear oil level monitoring | M6 | 6 Nm (4.4 lbf ft) |

16.2 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 gear oil with engine at operating temperature.

**Preparatory work**
- Stand the motorcycle on the plug-in stand on a horizontal surface.

**Main work**
- Position an appropriate container under the engine.
- Remove oil drain plug 1 with the magnet.
- Let the gear oil drain fully.
- Thoroughly clean the oil drain plug with magnet.
- Clean the sealing surface on the engine.
- Mount and tighten the oil drain plug with the magnet and new seal ring.

**Guideline**

| Oil drain plug with magnet | M12x1.5 | 20 Nm (14.8 lbf ft) |
16 SERVICE WORK ON THE ENGINE

16.3 Adding the gear oil

Info
Too little gear oil or poor-quality gear oil results in premature wear to the transmission.

Preparatory work
– Stand the motorcycle upright on a horizontal surface.

Main work
– Remove screw 1.
  – Remove filler plug 2 with the O-ring.
  – Add gear oil until it flows out of the hole of the gear oil level plug.
  – Mount and tighten screw 1.

Guideline

| Screw, gear oil level monitoring | M6 | 6 Nm (4.4 lbf ft) |

– Mount and tighten filler plug 2 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. 101)
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**

Clean the motorcycle regularly to maintain its value and appearance over a long period.

Avoid direct sunshine when cleaning the motorcycle.

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

**Warning**

**Danger of accidents** Moisture and dirt impair the brake system.

- Explain to your child that he or she must brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.

- After cleaning, your child should ride the vehicle a short distance until the engine warms up and until the brakes system has dried through careful application of the brakes.
Info

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

- Push back the protection caps on the handlebar controls to allow water 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:

<table>
<thead>
<tr>
<th>Preserving materials for paints, metal and rubber (p. 119)</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (p. 120)</th>
</tr>
</thead>
</table>
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 the motorcycle is not being used for an extended length of time, additional measures are recommended.

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). This allows you to avoid long waiting periods when the next season starts.

- When refueling for the last time before taking the motorcycle out of service, add fuel additive.
  - Fuel additive (p. 119)
- Fill up with fuel. (p. 26)
- Clean the motorcycle. (p. 104)
- Change the gear oil. (p. 101)
- Check the antifreeze and coolant level. (p. 92)
- Empty the carburetor float chamber. (p. 99)
- Check tire pressure. (p. 90)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

**Info**

Husqvarna Motorcycles recommends raising the motorcycle.

- Raise the motorcycle with a lift stand. (p. 40)
- Cover the vehicle with a tarp or 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. 40)
- Perform checks and maintenance measures when preparing for use. (p. 23)
- Take a test ride.
<table>
<thead>
<tr>
<th>Faults</th>
<th>Possible cause</th>
<th>Action</th>
</tr>
</thead>
</table>
| Engine turns but does not start | Operating error | – Carry out the start procedure.  
(⚙️ p. 23) |
| | Motorcycle was out of use for a long time and there is old fuel in the float chamber | – Empty the carburetor float chamber.  
(⚙️ p. 99) |
| | Fuel supply interrupted | – Check the fuel tank breather.  
– Clean the fuel tap.  
– Check/set the carburetor components.  
(⚙️) |
| | Spark plug sooty or wet | – Clean and dry the spark plug and spark plug connector, or change if necessary.  
(⚙️) |
| | Plug gap of spark plug too wide | – Adjust plug gap.  
Guideline  
Spark plug electrode gap 0.60 mm (0.0236 in) |
| | Fault in ignition system | – Check the ignition system.  
– Adjust the ignition.  
(⚙️) |
| | Short-circuit cable in wiring harness frayed, stop button faulty | – Check the stop button.  
(⚙️) |
| | The connector or ignition coil is loose or oxidized | – Clean the plug-in connection and treat it with contact spray.  
(⚙️) |
| | Water in carburetor or jets blocked | – Check/set the carburetor components.  
(⚙️) |
| Engine has no idle speed | Idling jet blocked | – Check/set the carburetor components.  
(⚙️) |
| | Adjusting screws on carburetor distorted | – Carburetor – adjust the idle speed.  
(⚙️ p. 98) |
| | Spark plug defective | – Change spark plug.  
(⚙️) |
| | Ignition system defective | – Check the ignition coil.  
– Check the spark plug connector.  
(⚙️) |
| Engine does not speed up | Carburetor running over because float needle dirty or worn | – Check/set the carburetor components.  
(⚙️) |
| | Loose carburetor jets | – Check/set the carburetor components.  
(⚙️) |
| | Fault in ignition system | – Check the ignition system.  
– Adjust the ignition.  
(⚙️) |
| Engine has too little power | Fuel supply interrupted | – Check the fuel tank breather.  
– Clean the fuel tap.  
– Check/set the carburetor components.  
(⚙️) |
| | Air filter very dirty | – Clean the air filter and air filter box.  
(⚙️ p. 57) |
<table>
<thead>
<tr>
<th>Faults</th>
<th>Possible cause</th>
<th>Action</th>
</tr>
</thead>
</table>
| Engine has too little power | Exhaust system leaky, deformed or too little glass fiber yarn filling in main silencer | – Check exhaust system for damage.  
– Change the glass fiber yarn filling of the main silencer. (p. 59) |
| Fault in ignition system | | – Check the ignition system.  
– Adjust the ignition. |
| Diaphragm or reed valve housing damaged | | – Check the diaphragm and reed valve housing. |
| Noticeable wear | | – Overhaul the engine. |
| Engine stalls or is popping into the carburetor | Lack of fuel | – Turn the knurled screw on the fuel tap all the way counterclockwise.  
– Fill up with fuel. (p. 26) |
| | Engine takes in bad air | – Check the intake flange and carburetor for tightness. |
| | The connector or ignition coil is loose or oxidized | – Clean the plug-in connection and treat it with contact spray. |
| Engine overheats | Too little coolant in cooling system | – Check the cooling system for leakage.  
– Check the coolant level. (p. 93) |
| | Too little air stream | – Switch off engine when standing. |
| | Radiator fins very dirty | – Clean radiator fins. |
| | Foam formation in cooling system | – Drain the coolant. (p. 93)  
– Refill with coolant. (p. 94) |
| | Damaged cylinder head or cylinder head gasket | – Check the cylinder head or cylinder head gasket. |
| | Bent radiator hose | – Change the radiator hose. |
| | Incorrect ignition point due to loose stator | – Adjust the ignition. |
| White smoke emission (steam in exhaust gas) | Damaged cylinder head or cylinder head gasket | – Check the cylinder head or cylinder head gasket. |
| Gear oil exits at the vent hose | Too much gear oil added | – Check the gear oil level. (p. 101) |
| Water in the gear oil | Damaged radial shaft seal ring or water pump | – Check the radial shaft seal ring and the water pump. |
## 20.1 Engine

<table>
<thead>
<tr>
<th>Design</th>
<th>1-cylinder 2-stroke engine, water-cooled, with reed intake and exhaust control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>64.85 cm³ (3.9574 cu in)</td>
</tr>
<tr>
<td>Stroke</td>
<td>40.8 mm (1.606 in)</td>
</tr>
<tr>
<td>Bore</td>
<td>45 mm (1.77 in)</td>
</tr>
<tr>
<td>Idle speed</td>
<td>1,400 … 1,500 rpm</td>
</tr>
<tr>
<td>Control</td>
<td>Exhaust control PCEV (Pneumatic Controlled Exhaust Valve)</td>
</tr>
<tr>
<td>Crankshaft bearing</td>
<td>2 grooved ball bearings</td>
</tr>
<tr>
<td>Conrod bearing</td>
<td>Needle bearing</td>
</tr>
<tr>
<td>Piston pin bearing</td>
<td>Needle bearing</td>
</tr>
<tr>
<td>Pistons</td>
<td>Aluminum cast</td>
</tr>
<tr>
<td>Piston rings</td>
<td>1 rectangular ring</td>
</tr>
<tr>
<td>Engine lubrication</td>
<td>Mixed lubrication</td>
</tr>
<tr>
<td>Primary transmission</td>
<td>23:75 straight cut spur gear wheel drive</td>
</tr>
<tr>
<td>Clutch</td>
<td>Multidisc clutch in oil bath/hydraulically activated</td>
</tr>
<tr>
<td>Gearbox</td>
<td>6-gear transmission, claw shifted</td>
</tr>
<tr>
<td>Transmission ratio</td>
<td></td>
</tr>
<tr>
<td>1st gear</td>
<td>13:37</td>
</tr>
<tr>
<td>2nd gear</td>
<td>16:34</td>
</tr>
<tr>
<td>3rd gear</td>
<td>18:31</td>
</tr>
<tr>
<td>4th gear</td>
<td>21:30</td>
</tr>
<tr>
<td>5th gear</td>
<td>23:28</td>
</tr>
<tr>
<td>6th gear</td>
<td>24:26</td>
</tr>
<tr>
<td>Ignition</td>
<td>Non-contact controlled fully electronic ignition system with digital ignition adjustment</td>
</tr>
<tr>
<td>Spark plug</td>
<td>NGK LR 8 B</td>
</tr>
<tr>
<td>Spark plug electrode gap</td>
<td>0.60 mm (0.0236 in)</td>
</tr>
<tr>
<td>Cooling</td>
<td>Water-cooled</td>
</tr>
<tr>
<td>Starting aid</td>
<td>Kick starter lever</td>
</tr>
</tbody>
</table>

## 20.2 Engine tightening torques

<table>
<thead>
<tr>
<th>Nut, exhaust control diaphragm</th>
<th>M5</th>
<th>4 Nm (3 lbf ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw, clutch line holder</td>
<td>M5</td>
<td>5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Screw, diaphragm cover of exhaust control</td>
<td>M5</td>
<td>4 Nm (3 lbf ft)</td>
</tr>
<tr>
<td>Screw, ignition system/stator</td>
<td>M5</td>
<td>5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Screw, main shaft bearing retainer</td>
<td>M5</td>
<td>6 Nm (4.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, reed valve housing of exhaust control</td>
<td>M5</td>
<td>5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Screw, retaining bracket for return spring of shift shaft</td>
<td>M5</td>
<td>6 Nm (4.4 lbf ft)</td>
</tr>
<tr>
<td>Component</td>
<td>Material</td>
<td>Torque (in Nm)</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>----------</td>
<td>----------------</td>
</tr>
<tr>
<td>Screw, shift drum locating</td>
<td>M5</td>
<td>6</td>
</tr>
<tr>
<td>Screw, water pump impeller</td>
<td>M5</td>
<td>2</td>
</tr>
<tr>
<td>Drain plug, water pump cover</td>
<td>M6</td>
<td>6</td>
</tr>
<tr>
<td>Screw, alternator cover</td>
<td>M6</td>
<td>8</td>
</tr>
<tr>
<td>Screw, clutch cover</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, clutch slave cylinder</td>
<td>M6</td>
<td>8</td>
</tr>
<tr>
<td>Screw, clutch springs</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, engine case</td>
<td>M6</td>
<td>8</td>
</tr>
<tr>
<td>Screw, exhaust flange</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, gear oil level monitoring</td>
<td>M6</td>
<td>6</td>
</tr>
<tr>
<td>Screw, intake flange</td>
<td>M6</td>
<td>6</td>
</tr>
<tr>
<td>Screw, kick starter lever stop piece</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, outer clutch cover</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, reed valve housing of exhaust control</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, shift drum bearing retainer</td>
<td>M6</td>
<td>5</td>
</tr>
<tr>
<td>Screw, shift drum locating</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>Screw, shift lever</td>
<td>M6</td>
<td>14</td>
</tr>
<tr>
<td>Screw, water pump cover</td>
<td>M6</td>
<td>8</td>
</tr>
<tr>
<td>Vacuum connection/vent connection</td>
<td>M6</td>
<td>4</td>
</tr>
<tr>
<td>Screw, cylinder head</td>
<td>M7</td>
<td>18</td>
</tr>
<tr>
<td>Nuts, cylinder base</td>
<td>M8</td>
<td>20</td>
</tr>
<tr>
<td>Screw, kick starter lever</td>
<td>M8</td>
<td>20</td>
</tr>
<tr>
<td>Stud, cylinder base (left section of the engine case)</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>Stud, cylinder base (right section of the engine case)</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>Screw, inner clutch hub</td>
<td>M10</td>
<td>60</td>
</tr>
<tr>
<td>Spark plug</td>
<td>M10x1</td>
<td>10</td>
</tr>
<tr>
<td>Nut, rotor</td>
<td>M12x1</td>
<td>50</td>
</tr>
<tr>
<td>Oil drain plug with magnet</td>
<td>M12x1.5</td>
<td>20</td>
</tr>
<tr>
<td>Nut, primary gear wheel</td>
<td>M14x1.25</td>
<td>40</td>
</tr>
</tbody>
</table>
### 20.3 Carburetor

<table>
<thead>
<tr>
<th>Needle position</th>
<th>MIKUNI TM 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle air adjusting screw</td>
<td></td>
</tr>
<tr>
<td>Open</td>
<td>3.5 turns</td>
</tr>
<tr>
<td>Main jet</td>
<td>210</td>
</tr>
<tr>
<td>Jet needle</td>
<td>5IPL43 (5N17)</td>
</tr>
<tr>
<td>Idling jet</td>
<td>20</td>
</tr>
<tr>
<td>Needle jet</td>
<td>O-O (454)</td>
</tr>
<tr>
<td>Throttle slide</td>
<td>2.5</td>
</tr>
</tbody>
</table>

#### 20.3.1 Carburetor tuning

<table>
<thead>
<tr>
<th>ASL</th>
<th>TEMP</th>
<th>–20 … –7 °C (–4 … 19 °F)</th>
<th>–6 … 5 °C (21 … 41 °F)</th>
<th>6 … 15 °C (43 … 59 °F)</th>
<th>16 … 24 °C (61 … 75 °F)</th>
<th>25 … 36 °C (77 … 97 °F)</th>
<th>37 … 49 °C (99 … 120 °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,301 … 3,000 m (7,549 … 9,843 ft)</td>
<td>ASO</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>3</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>IJ</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>NDL</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>POS</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>MJ</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>205</td>
<td>3.5</td>
</tr>
<tr>
<td>1,501 … 2,300 m (4,925 … 7,546 ft)</td>
<td>ASO</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>3</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>IJ</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>NDL</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>POS</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>MJ</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>751 … 1,500 m (2,464 … 4,921 ft)</td>
<td>ASO</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>3</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>IJ</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>NDL</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>POS</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>0 … 300 m (0 … 984 ft)</td>
<td>ASO</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>3</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>IJ</td>
<td>3.5</td>
<td>20</td>
<td>5N17</td>
<td>2</td>
<td>210</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>NDL</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>205</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POS</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>205</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MJ</td>
<td>3.5</td>
<td>15</td>
<td>5N17</td>
<td>2</td>
<td>205</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **ASL**: Above sea level
- **TEMP**: Temperature
- **ASO**: Open (rotations) idle air adjusting screw
- **IJ**: Idling jet
- **NDL**: Jet needle
- **POS**: Needle position from top
- **MJ**: Main jet

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

### 20.4.1 Gear oil

| Gear oil | 0.50 l (0.53 qt.) | Engine oil (15W/50) (p. 117) |

### 20.4.2 Coolant

| Coolant | 0.55 l (0.58 qt.) | Coolant (p. 117) |

### 20.4.3 Fuel

| Fuel tank capacity, approx. | 3.7 l (3.9 qt.) | Super unleaded (95 octane) mixed with 2-stroke engine oil (1:60) (p. 118) |

## 20.5 Fork

<table>
<thead>
<tr>
<th>Fork article number</th>
<th>07.18.6U.03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fork</td>
<td>WP XACT 5235</td>
</tr>
</tbody>
</table>

- **Rebound damping**
  - Comfort: 15 clicks
  - Standard: 12 clicks
  - Sport: 10 clicks

- **Air pressure**: 3 bar (44 psi)

- **Fork length**: 735 mm (28.94 in)

- **Spring length with preload spacer(s)**: 377.5 mm (14.862 in)

<table>
<thead>
<tr>
<th>Oil capacity external mechanism left</th>
<th>$40 \pm 15$ ml ($1.35 \pm 0.51$ fl. oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil capacity, right cartridge</td>
<td>240 ml (8.11 fl. oz.)</td>
</tr>
<tr>
<td>Grease capacity, left cartridge</td>
<td>6 g (0.21 oz)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fork oil (SAE 4) (48601166S1) (p. 118)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fork oil (SAE 4) (48601166S1) (p. 118)</td>
</tr>
<tr>
<td>Special grease (00062010053) (p. 120)</td>
</tr>
</tbody>
</table>

## 20.6 Shock absorber

<table>
<thead>
<tr>
<th>Shock absorber article number</th>
<th>03.18.7T.03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shock absorber</td>
<td>WP XACT 5735</td>
</tr>
</tbody>
</table>

- **Low-speed compression damping**
  - Comfort: 18 clicks
  - Standard: 15 clicks
  - Sport: 12 clicks

- **High-speed compression damping**
  - Comfort: 2.5 turns
  - Standard: 2 turns
  - Sport: 1.5 turns

- **Rebound damping**
  - Comfort: 18 clicks
  - Standard: 15 clicks
<table>
<thead>
<tr>
<th>Tech Data</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sport</strong></td>
<td>12 clicks</td>
</tr>
<tr>
<td><strong>Spring preload</strong></td>
<td>5 mm (0.2 in)</td>
</tr>
<tr>
<td><strong>Spring rate</strong></td>
<td></td>
</tr>
<tr>
<td>Weight of rider: 35 kg (77 lb.)</td>
<td>35 N/mm (200 lb/in)</td>
</tr>
<tr>
<td>Weight of rider: 40 kg (88 lb.)</td>
<td>40 N/mm (228 lb/in)</td>
</tr>
<tr>
<td>Weight of rider: 45 kg (99 lb.)</td>
<td>45 N/mm (257 lb/in)</td>
</tr>
<tr>
<td><strong>Spring length</strong></td>
<td>210 mm (8.27 in)</td>
</tr>
<tr>
<td><strong>Gas pressure</strong></td>
<td>10 bar (145 psi)</td>
</tr>
<tr>
<td><strong>Static sag</strong></td>
<td>30 mm (1.18 in)</td>
</tr>
<tr>
<td><strong>Riding sag</strong></td>
<td>70 mm (2.76 in)</td>
</tr>
<tr>
<td><strong>Fitted length</strong></td>
<td>347 mm (13.66 in)</td>
</tr>
<tr>
<td><strong>Shock absorber fluid</strong></td>
<td>SAE 2.5</td>
</tr>
<tr>
<td><strong>Frame</strong></td>
<td>Central tube frame of chrome molybdenum steel tubing, powder-coated</td>
</tr>
<tr>
<td><strong>Fork</strong></td>
<td><strong>WP XACT 5235</strong></td>
</tr>
<tr>
<td><strong>Shock absorber</strong></td>
<td><strong>WP XACT 5735</strong></td>
</tr>
<tr>
<td><strong>Suspension travel</strong></td>
<td></td>
</tr>
<tr>
<td>front</td>
<td>215 mm (8.46 in)</td>
</tr>
<tr>
<td>rear</td>
<td>270 mm (10.63 in)</td>
</tr>
<tr>
<td><strong>Fork offset</strong></td>
<td>22 mm (0.87 in)</td>
</tr>
<tr>
<td><strong>Brake system</strong></td>
<td>Disc brake with 4-piston brake caliper</td>
</tr>
<tr>
<td>front</td>
<td>Disc brake with 4-piston brake caliper</td>
</tr>
<tr>
<td>rear</td>
<td></td>
</tr>
<tr>
<td><strong>Brake disc diameters</strong></td>
<td></td>
</tr>
<tr>
<td>front</td>
<td>198 mm (7.8 in)</td>
</tr>
<tr>
<td>rear</td>
<td>160 mm (6.3 in)</td>
</tr>
<tr>
<td><strong>Brake discs - wear limits</strong></td>
<td></td>
</tr>
<tr>
<td>front</td>
<td>2.5 mm (0.098 in)</td>
</tr>
<tr>
<td>rear</td>
<td>2.5 mm (0.098 in)</td>
</tr>
<tr>
<td><strong>Offroad tire pressure</strong></td>
<td></td>
</tr>
<tr>
<td>front</td>
<td>1.0 bar (15 psi)</td>
</tr>
<tr>
<td>rear</td>
<td>1.0 bar (15 psi)</td>
</tr>
<tr>
<td><strong>Secondary drive ratio</strong></td>
<td>14:48</td>
</tr>
<tr>
<td><strong>Chain</strong></td>
<td>1/2 x 1/4&quot; O-ring</td>
</tr>
<tr>
<td><strong>Rear sprockets available</strong></td>
<td>46, 48, 50</td>
</tr>
<tr>
<td><strong>Steering head angle</strong></td>
<td>64.5°</td>
</tr>
<tr>
<td><strong>Wheelbase</strong></td>
<td>1,137 mm (44.76 in)</td>
</tr>
<tr>
<td><strong>Seat height unloaded</strong></td>
<td>750 mm (29.53 in)</td>
</tr>
<tr>
<td><strong>Ground clearance unloaded</strong></td>
<td>280 mm (11.02 in)</td>
</tr>
<tr>
<td><strong>Weight without fuel approx.</strong></td>
<td>53 kg (117 lb.)</td>
</tr>
<tr>
<td><strong>Maximum rider weight</strong></td>
<td>50 kg (110 lb.)</td>
</tr>
</tbody>
</table>
## 20.8 Tires

<table>
<thead>
<tr>
<th>Front tire</th>
<th>Rear tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>60/100 - 14 M/C 30M TT</td>
<td>80/100 - 12 41M TT</td>
</tr>
<tr>
<td>MAXXIS MAXX CROSS SI</td>
<td>MAXXIS MAXX CROSS SI</td>
</tr>
</tbody>
</table>

The tires specified represent one of the possible series production tires. Additional information is available in the Service section under: [www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)

## 20.9 Chassis tightening torques

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hose clip, carburetor</td>
<td>-</td>
</tr>
<tr>
<td>Screw, brake line holder</td>
<td>EJOT 2.8 Nm (2.07 lbf ft)</td>
</tr>
<tr>
<td>Screw, side cover</td>
<td>EJOT PT® K60x20-Z 1.7 Nm (1.25 lbf ft)</td>
</tr>
<tr>
<td>Screw, splash protector</td>
<td>EJOT PT® K60x25-Z 2 Nm (1.5 lbf ft)</td>
</tr>
<tr>
<td>Screw, stop button</td>
<td>M3 0.4 Nm (0.3 lbf ft)</td>
</tr>
<tr>
<td>Spoke nipple</td>
<td>M3.5 3 Nm (2.2 lbf ft)</td>
</tr>
<tr>
<td>Screw, throttle slide cover</td>
<td>M4 2 Nm (1.5 lbf ft)</td>
</tr>
<tr>
<td>Remaining nuts, chassis</td>
<td>M5 5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Remaining screws, chassis</td>
<td>M5 5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Nut, push rod, foot brake lever</td>
<td>M6 6 Nm (4.4 lbf ft)</td>
</tr>
<tr>
<td>Remaining nuts, chassis</td>
<td>M6 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Remaining screws, chassis</td>
<td>M6 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, ball joint of push rod on foot brake cylinder</td>
<td>M6 10 Nm (7.4 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Screw, clutch master cylinder</td>
<td>M6 5 Nm (3.7 lbf ft)</td>
</tr>
<tr>
<td>Screw, fender</td>
<td>M6 6 Nm (4.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, foot brake cylinder</td>
<td>M6 10 Nm (7.4 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Screw, fork stub</td>
<td>M6 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, front brake disc</td>
<td>M6 14 Nm (10.3 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Screw, front brake linings</td>
<td>M6 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, fuel tank spoiler on radiator</td>
<td>M6 6 Nm (4.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, hand brake cylinder</td>
<td>M6 5 Nm (3.7 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Screw, rear brake disc</td>
<td>M6 14 Nm (10.3 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Screw, rear brake lining</td>
<td>M6 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, throttle grip</td>
<td>M6 4.5 Nm (3.32 lbf ft)</td>
</tr>
<tr>
<td>Start number plate screw</td>
<td>M6 4 Nm (3 lbf ft)</td>
</tr>
<tr>
<td>Engine bracket screw</td>
<td>M8 30 Nm (22.1 lbf ft) Loctite®2701™</td>
</tr>
<tr>
<td>Fitting, engine mounting bracket</td>
<td>M8 30 Nm (22.1 lbf ft)</td>
</tr>
<tr>
<td>Nut, foot brake lever stop</td>
<td>M8 20 Nm (14.8 lbf ft) Loctite®243™</td>
</tr>
<tr>
<td>Nut, rim lock</td>
<td>M8 10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Remaining nuts, chassis</td>
<td>M8 25 Nm (18.4 lbf ft)</td>
</tr>
<tr>
<td>Remaining screws, chassis</td>
<td>M8 25 Nm (18.4 lbf ft)</td>
</tr>
<tr>
<td>Screw, bottom triple clamp</td>
<td>M8 15 Nm (11.1 lbf ft)</td>
</tr>
<tr>
<td>Part Description</td>
<td>Thread Type</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Screw, chain sliding piece</td>
<td>M8</td>
</tr>
<tr>
<td>Screw, engine sprocket cover</td>
<td>M8</td>
</tr>
</tbody>
</table>
| Screw, front brake caliper               | M8          | 20 Nm (14.8 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, handlebar clamp                   | M8          | 20 Nm (14.8 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, front brake caliper               | M8x20       | 18 Nm (13.3 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, rear brake caliper                | M8x40       | 18 Nm (13.3 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, rear sprocket                     | M8          | 25 Nm (18.4 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, steering stem                     | M8          | 20 Nm (14.8 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, subframe                          | M8          | 35 Nm (25.8 lbf ft)  
|                                           |             | Loctite®2701™ |
| Screw, top triple clamp                  | M8          | 20 Nm (14.8 lbf ft)  
|                                           |             | Loctite®243™   |
| Remaining nuts, chassis                  | M10         | 45 Nm (33.2 lbf ft)  
|                                           |             | Loctite®243™   |
| Remaining screws, chassis                 | M10         | 45 Nm (33.2 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, bottom shock absorber             | M10         | 45 Nm (33.2 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, foot brake lever                   | M10         | 35 Nm (25.8 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, front wheel spindle               | M10         | 40 Nm (29.5 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, handlebar support                 | M10         | 40 Nm (29.5 lbf ft)  
|                                           |             | Loctite®243™   |
| Screw, top shock absorber                | M10         | 45 Nm (33.2 lbf ft)  
|                                           |             | Loctite®243™   |
| Nut, swingarm pivot                      | M12x1       | 40 Nm (29.5 lbf ft)  
|                                           |             | Loctite®243™   |
| Nut, rear wheel spindle                  | M14x1.5     | 40 Nm (29.5 lbf ft)  
|                                           |             | Loctite®243™   |
| Nut, steering head                       | M20x1.5     | 10 Nm (7.4 lbf ft)   
|                                           |             | Loctite®243™   |
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) |

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. 121)
- SAE (p. 121) (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. 121)

**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)

<table>
<thead>
<tr>
<th>Standard/classification</th>
<th>SAE (p. 121) (SAE 4)</th>
</tr>
</thead>
</table>

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)

<table>
<thead>
<tr>
<th>Standard/classification</th>
<th>SAE (p. 121) (SAE 2.5)</th>
</tr>
</thead>
</table>

Guideline
- Use only oils that comply with the specified standards (see specifications on the container) and that exhibit the corresponding properties.

Super unleaded (ROZ 95)

<table>
<thead>
<tr>
<th>Standard/classification</th>
<th>DIN EN 228 (ROZ 95)</th>
</tr>
</thead>
</table>

Guideline
- Only use super unleaded fuel that matches or is equivalent to the specified standard.
- Fuel with an ethanol content of up to 10% (E10 fuel) is safe to use.

Info
Do not use fuel containing methanol (e.g., M15, M85, M100) or more than 10% ethanol (e.g., E15, E25, E85, E100).

Super unleaded (95 octane) mixed with 2-stroke engine oil (1:60)

| Standard/classification | DIN EN 228
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>-------------------------</td>
<td>----------------------</td>
</tr>
</tbody>
</table>
| Mixture ratio           | 1:60 Engine oil, 2-stroke (p. 117)
|                         | Super unleaded (ROZ 95) (p. 118) |

Recommended supplier
MOTOREX®
- Cross Power 2T
<table>
<thead>
<tr>
<th>Product Type</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter cleaner</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Racing Bio Dirt Remover</td>
</tr>
<tr>
<td>Chain cleaner</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Chain Clean</td>
</tr>
<tr>
<td>Fuel additive</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Fuel Stabilizer</td>
</tr>
<tr>
<td>High viscosity grease</td>
<td>SKF®</td>
</tr>
<tr>
<td></td>
<td>– LGHB 2</td>
</tr>
<tr>
<td>Long-life grease</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Bike Grease 2000</td>
</tr>
<tr>
<td>Motorcycle cleaner</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Moto Clean</td>
</tr>
<tr>
<td>Off-road chain spray</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Chainlube Offroad</td>
</tr>
<tr>
<td>Oil for foam air filter</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Racing Bio Liquid Power</td>
</tr>
<tr>
<td>Preserving materials for paints, metal and rubber</td>
<td>MOTOREX®</td>
</tr>
<tr>
<td></td>
<td>– Moto Protect</td>
</tr>
</tbody>
</table>
Rubber grip adhesive (00062030051)
Recommended supplier
KTM AG
– GRIP GLUE

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.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. no.</td>
<td>Article number</td>
</tr>
<tr>
<td>ca.</td>
<td>circa</td>
</tr>
<tr>
<td>cf.</td>
<td>compare</td>
</tr>
<tr>
<td>e.g.</td>
<td>for example</td>
</tr>
<tr>
<td>etc.</td>
<td>et cetera</td>
</tr>
<tr>
<td>i.a.</td>
<td>inter alia</td>
</tr>
<tr>
<td>no.</td>
<td>number</td>
</tr>
<tr>
<td>poss.</td>
<td>possibly</td>
</tr>
</tbody>
</table>
PARENTS, YOUNGSTERS & OFF-HIGHWAY MOTORCYCLES

For the rider training location nearest you, call: (877) 288-7093
dirtbikeschool.com

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2 Jenner, Suite 150 • Irvine, CA 92618
(949) 727-3227 • msf-usa.org
The information contained in this publication is offered for the benefit of those who have an interest in riding off-highway motorcycles. The information has been compiled from publications, interviews and observations of individuals and organizations familiar with the use of off-highway motorcycles. Because there are many differences in product design, riding terrain and riding styles, there may be organizations and individuals who hold differing opinions. Consult your local motorcycle dealers or experienced off-highway motorcycle riders about appropriate riding locations in your area. Although the Motorcycle Safety Foundation will continue to publish responsible viewpoints on this subject, it must disclaim specific or general liability for the views expressed herein.

The Motorcycle Safety Foundation® (MSF) is a national not-for-profit organization promoting the safety of motorcyclists with programs in rider training, operator licensing and public information. The MSF is sponsored by BMW, BRP, Ducati, Harley-Davidson, Honda, Kawasaki, KTM, Piaggio, Polaris Motorcycles, Suzuki, Triumph and Yamaha.
Parents...Be Cautious

Riding Off-Highway Motorcycles (OHMs) can be an enjoyable form of outdoor recreation when done properly. With preparation, practice, and parental supervision your youngster can safely develop and expand his or her riding skills. Remember, off-highway motorcycles are not toys.

This manual is designed to assist you in the important task of teaching your youngster the safe and responsible use of an off-highway motorcycle. We urge you to read this booklet thoroughly. Also read other information provided with the motorcycle. The owner’s manual contains important warnings and features of the motorcycle.

Deciding if your youngster is ready to ride an off-highway motorcycle is an important decision. The MSF strongly urges you to carefully determine your youngster’s readiness to ride. There is a Readiness Checklist in Part 4 of this booklet. **Do not permit youngsters to ride an off-highway motorcycle if you doubt that they will operate the motorcycle safely.**
INTRODUCTION
• Purpose of the Booklet 4
• Important Note to Parents 4
• Other Sources of Information 5

PART 1: Determining Your Youngster’s Readiness to Ride an Off-Highway Motorcycle
• Readiness Guidelines 6
• Steps for Safe and Responsible OHM Riding 10

PART 2: Pre-Operating Procedures and Practice
• Protective Gear and Clothing 11
• Mounting/Dismounting 12
• Mastering the Controls 13
• Learning Activities 16

PART 3: Operating Procedures and Practice
• Learning Area/Riding Area 20
• Getting Used to the Vehicle in Motion 22
• Let’s Start Riding 25

PART 4: Readiness Checklist
• Visual Perception/Motor/Development 29
• Physical Development 32
• Social/Emotional Development 34
• Reasoning and Decision-Making Ability 36

FINAL NOTE: To Parents 38
GLOSSARY 39
ANSWERS 41
Parents, Youngsters and Off-Highway Motorcycles is designed to assist you in determining if your youngster is ready to ride off-highway motorcycles (OHMs). It also provides you and your youngster with important safety information and tips on learning to ride. This booklet is divided into four parts: Part 1: Determining Your Youngster’s Readiness to Ride an Off-highway Motorcycle; Part 2: Pre-operating Procedures; Part 3: Operating Procedures; Part 4: Readiness Checklist. There is information about protective gear, mounting, control operation and starting the engine. Operating procedures include starting, shifting, stopping and turning.

Once your youngster is ready to learn to ride, YOU must be familiar with the motorcycle. You will be serving as teacher, coach, and safety supervisor for your youngster. You must know the controls, handling characteristics, maintenance requirements, and proper riding techniques. Read and understand the owner’s manual and the labels provided with the vehicle. Review all instructions, requirements, and warnings with your youngster. Find out about state or local off-highway motorcycle requirements.
Other Sources Of Information

In addition to the information provided in *Parents, Youngsters and Off-Highway Motorcycles*, there are other sources for obtaining safety information. The owner’s manual provides specific maintenance and operating procedures for your motorcycle. It also includes warnings and cautions, as well as operating tips. Motorcycle dealers may have other literature and safety information. Another booklet, *Tips and Practice Guide for the Off-Highway Motorcyclist*, gives detailed riding procedures.

The MSF *DirtBike School* offers training on how to ride off-highway motorcycles. The course is available to youth as young as six years of age, as well as to adults. Call toll-free 877.288.7093 to enroll or for more information. To find out more on the internet, visit dirtbikeschool.com.
The first important decision you will have to make concerning your youngster and off-highway motorcycles (OHMs) is whether your youngster is ready to ride. There are several factors that you must consider carefully.

There is no certain way to predict that your child is able to ride an OHM safely. However, the following information is a guide to help you determine your youngster’s readiness to ride. Only parents can decide if their youngster has the qualities necessary to operate an off-highway motorcycle safely.

**Readiness Guidelines**

**PHYSICAL DEVELOPMENT**

Physical size and ability are important considerations. For example, a youngster must be big enough to hold the motorcycle up, get on, and comfortably sit on the seat with both feet touching the ground.

Also make sure your youngster can comfortably reach and work all the controls. For example, can they turn the handlebars all the way to the right and left? Can they easily use their feet to work the brake pedal and gearshift lever? Can they operate the throttle and brake levers while they hold onto the handgrips? If not, the youngster is not physically ready to ride this OHM. Refer to the owner’s manual to check for possible adjustments in the position of some of the controls.
PART 1

Additional signs of physical readiness can be observed in your youngster’s other play activities. In general, a youngster should be well-coordinated, having good balance and agility. This coordination can be demonstrated by the abilities to jump rope, skate, skateboard, ride a bicycle, etc. If a youngster cannot perform well in these types of activities, more physical development is needed.

SOCIAL/EMOTIONAL DEVELOPMENT

How a youngster behaves in a social setting can be a sign of social/emotional development. A youngster needs to know about and understand rules. Certain rules are necessary for the safe operation of any vehicle. Youngsters must be willing to follow rules. A good sign is a youngster who obeys rules set by parents. A youngster who does not follow rules is not ready for an OHM.

One indicator that a youngster is ready to ride an OHM is when they demonstrate a safety-conscious attitude and are aware of possible injury from reckless OHM operation. If the youngster has a habit of recklessness or is often involved in accidents while using bicycles or skateboards, the youngster is not ready to ride an OHM.

REASONING AND DECISION-MAKING ABILITY

Youngsters should have some knowledge about what may happen if something is done wrong. They must understand that unsafe actions can result in injury. An example of this is knowing the need to look in both directions before crossing a street when walking to school. The ability to make good decisions relates to a youngster’s ability to reason. When presented with a problem, the youngster should be able to come up with a sensible answer. Ask your youngster to tell you what causes accidents and injuries. Your youngster needs to be able to tell
what causes accidents and how to avoid them. In general, a youngster should understand that he or she can get hurt as a result of making poor choices.

**VISUAL PERCEPTIONS AND MOTOR DEVELOPMENT**

This area involves how well a youngster sees and how vision is used with other physical movements. In other words, can a youngster see and react with the proper hand, foot, or body movement?

Several types of visual characteristics are important. The ability to see to the sides while looking straight ahead is called peripheral or side vision. You can determine a youngster’s side vision by having him or her look straight ahead while you move objects to the side. The youngster should be able to see objects ninety degrees to the side while looking straight ahead. Rider awareness and safety improves with good side vision.

Being able to judge distance is another visual skill helpful when operating an OHM. Is your youngster able to tell how far one object is from another, or which of two objects is closer? OHM riding requires a person to judge distance and react properly.

Being good at playing video games, hitting a baseball, etc., is a good sign that a youngster’s eye and hand movements are fairly well coordinated.

In summary, you must consider many things before you decide to put your youngster on an OHM. There is no exact formula to use in making this decision. The Readiness Checklist, Part 4, can assist you with some points to evaluate. If you are not able to check-off most of the statements, your youngster is probably not ready to ride an OHM.
PART 1

Steps For Safe And Responsible OHM Riding

Once you determine that OHM use is proper for your youngster, it is time to prepare yourself as a good OHM teacher and supervisor.

STEP ONE: Educate Yourself about OHM Safety and Proper Riding Techniques

You must learn as much as possible about off-highway motorcycles in general, and especially your youngster’s motorcycle. You must be qualified to instruct and supervise your youngster. This means that you will need to understand the features of the motorcycle and proper riding techniques. The best source of information is the owner’s manual supplied with the motorcycle. Read the owner’s manual before you begin to instruct your youngster about OHM safety. Pay particular attention to the warning labels and stickers on the motorcycle.

STEP TWO: Teach Your Youngster Safe and Proper Riding Techniques

Teaching your youngster off-highway motorcycling is a step-by-step process. It begins with safety rules and moves to actual riding techniques. Since youngsters learn at different rates, it will be up to you to set the pace of your youngster’s progress. At some point you may decide that he or she is not ready to ride an OHM.

STEP THREE: Avoid Unsafe Situations Through Close Supervision

ALWAYS closely supervise your youngster’s riding. This is true even if your youngster has learned and mastered the rules and skills of safe OHM riding. Youngsters can get tired easily and become careless. They do not always see everything that is important around them. Your close supervision and good judgment are important.
The nature of off-highway riding demands that your youngster wear proper protective gear. Motorcycle riders should ALWAYS wear a helmet, eye protection, gloves, long pants, a long-sleeved shirt or jacket, and over-the-ankle boots. Anything less is not adequate protection. NEVER let anyone ride an off-highway motorcycle without a Department of Transportation (DOT) compliant motorcycle helmet. Be sure the fit is correct. It should be snug but not tight. It must be properly fastened.

Protective gear is necessary in any weather, even when the temperature is warm. In cooler weather you should dress your youngster with additional layers of clothing. Some riders choose to wear a kidney belt and chest or back protector for additional protection. On the right is a drawing of well-equipped riders. Show this drawing to your youngster and point out what is important.
Mounting/Dismounting

Have your youngster wear safety gear whenever getting on a motorcycle. This action will stress the importance of safety gear and help develop safe riding habits.

Mounting is typically from the left side. To mount from the left, point the handlebars straight. While squeezing the front brake lever, swing the right leg over the seat and place the right foot on the ground. Both feet should be in contact with the ground while sitting on the motorcycle. Dismounting reverses the procedure: the kickstand is placed fully down. With the left foot on the ground, the handlebars straight and the front brake lever squeezed, the right leg is swung over the seat and the foot touches the ground.

Correct riding posture helps your youngster operate the controls. Proper straight line riding posture includes:

- Head and eyes up, looking well ahead.
- Shoulders relaxed, back straight.

- Elbows bent, slightly out and away from the body.
- Hands on the handlebars.
- Knees in toward the tank.
- Feet on the footpegs, toes pointing straight ahead.

The hand and foot controls are important to riding safely. While riding, both hands should be kept on the handlebars and both feet on the footpegs of the motorcycle. Removing a hand or foot can reduce the ability to control the motorcycle.

An off-highway motorcycle rider will need to shift body weight in certain situations. This is especially true in maneuvers such as turning, negotiating hills, and riding on bumpy terrain. Your youngster should be able to operate the controls during these maneuvers. Now is a good time to make sure your youngster can reach the controls from different body positions. Have the youngster remount. Turn the handlebars full left
PART 2

and full right. See that this can be done easily. Next have the youngster slide up and back on the seat. Mention that body movement is important. Body movement and shifting weight help to control the motorcycle.

*Go through these control exercises with the motorcycle’s engine OFF.*

**Mastering The Controls**

Show your youngster how to use each control as you describe its action. Refer to the owner’s manual to learn control location and function before instructing your youngster. Test yourself by operating the controls. Have your youngster dress in the proper protective gear and sit on the machine as you point out each control. It is important to have your youngster wear all the protective gear whenever sitting on an off-highway motorcycle.
BRAKES

Most small off-highway motorcycles have a hand lever on the right handlebar which operates the front brake. Most also have a foot pedal on the right side to operate the rear brake. Refer to the owner’s manual for correct brake location and operation.

Explain and demonstrate proper braking procedure. Be sure your youngster can apply the brake(s) properly while seated and without looking down. Smooth operation should be encouraged.

THROTTLE CONTROL

Explain to your youngster that twisting the throttle control back will make the motorcycle go faster. Closing the throttle control slows the motorcycle.

Youngsters need practice using the throttle control smoothly. They tend to use it like an on/off switch. With the engine off, have your youngster move the throttle to various positions. Practice turning the handlebars and using the throttle at the same time.

ENGINE STOP SWITCH

Explain to your youngster how to use the engine stop switch to turn off the engine. With the engine off, show how the stop switch works. Later, your youngster can practice using the stop switch when the engine is actually running.

CLUTCH/SHIFT LEVER

Some small OHMs do not have a clutch lever; some don’t have a shift lever either. This section applies only to motorcycles with a shift lever. Those that do have a shift lever may have different shift patterns. Refer to your owner’s manual for proper shifting instructions. It is important to learn how the shift lever works.

Explain that it is possible to shift the motorcycle with the shift lever in order to ride at different speeds.
Have your youngster practice shifting with the engine off. The shift lever, clutch lever (if equipped), and throttle control work together to move the motorcycle. When shifting to first gear from neutral the throttle is closed, the clutch lever is squeezed, and the front brake is applied before moving the shift lever into first gear. When starting out, the front brake is released. The throttle is gradually opened while the clutch is slowly released. If the clutch is released too quickly, or too much throttle is applied, the motorcycle may lunge forward causing loss of control. With the engine off, have your youngster practice upshifts, downshifts, and locating neutral.

**SPEED LIMITERS**
*(supervisor control feature)*

Some models come equipped with a removable exhaust restrictor, or another feature which reduces maximum speed. Refer to your owner’s manual or talk to your dealer about this.
Learning Activities

Here are some activities that your youngster can use to help learn about motorcycle parts and controls.

CROSSWORD PUZZLE

Here is a crossword puzzle for your youngster to complete.

Across
1. What this booklet is all about.
2. A piece of safety equipment for your head that you must never forget to wear.
3. Protective gear for the hands.
4. Where you should always ride your motorcycle. (a synonym)
5. Hand lever you use when shifting gears.

Down
6. The place on which you keep your feet when riding.
7. Protective gear for the feet and ankles.

All the words needed are listed below:
CLUTCH
BOOTS
FOOTPEGS
GLOVES
HELMET
GLOVES
SAFETY

Answer Guide on Page 41
NAME THE MOTORCYCLE PARTS  (Typical)

Have your youngster write the number of the motorcycle part or control on the correct line for the diagrams shown.  (Answer Guide on Page 42)

1. Clutch lever
2. Hand brake lever
3. Foot brake lever or pedal
4. Throttle
5. Choke or enrichening device
6. Engine stop switch
7. Gas cap/tank vent
8. Starter (kick)
9. Electric starter (if equipped)
PART 2

LOCATING THE CONTROLS GAME

Now that you have shown your youngster the controls, it is your youngster’s turn to show you. The engine remains OFF for this exercise and your youngster will be on the motorcycle. The youngster should be wearing the proper protective gear to develop this safety habit.

1. Have your youngster show you the location of the following:
   - Brakes (lever and pedal)
   - Throttle Control
   - Engine Stop Switch
   - Shift Lever (if equipped)
   - Clutch (if equipped)

2. Have your youngster show you how the controls work. Be sure he or she understands the proper operation of each control. Skilled use of these controls should develop with practice. Under actual riding conditions the rider will have to watch ahead while operating the controls. Your youngster should be able to find the controls quickly without looking for them.

3. With your youngster looking ahead (pick out a point to look at), have him or her operate the controls. Repeat often while changing the order.

4. Ask your youngster to operate the controls as if actually riding. Look for smooth and precise operation.
PRE-RIDE CHECK

Before you continue:

1. Have you determined your youngster’s readiness to ride an OHM? Do not let your youngster ride if you have any doubt. (Refer to the Readiness Checklist, Part 4)

2. Have you read the owner’s manual and reviewed it with your youngster?

3. Does your youngster fit the motorcycle properly?

4. Have you inspected the vehicle and maintained it according to the owner’s manual?

5. Is your youngster wearing the proper protective gear? Is the mounting procedure correct?

6. Has your youngster learned to locate the motorcycle controls without looking at them? Does he or she know how to operate them smoothly?

7. Does your youngster understand that he or she must always ride off-road?

8. Have you stressed to your youngster to keep his or her feet on the footpegs while riding?

If you have completely covered all these areas, you are ready to go on to Part 3.
Carefully observe your youngster’s first use of the motorcycle. Observe his or her readiness to ride. Only permit your youngster to continue to ride if they have the size, strength, and attitude needed to ride safely.

Show your youngster the engine, exhaust pipe, and muffler. Tell him or her not to touch these parts because they are hot while the engine is running. Explain that they will remain hot after the engine is stopped. Also explain that hands and feet must be kept away from moving parts of the motorcycle.

Your youngster’s safety depends in part on the mechanical condition of the motorcycle. Be sure to inspect it thoroughly before each use. Starting and refueling of the vehicle should be done by responsible adults only. Follow a regular maintenance program. See the owner’s manual for inspection details.

Even after young riders have learned the basic riding skills, direct supervision by an experienced adult is necessary AT ALL TIMES. Make sure that all off-highway motorcycle users under your supervision get proper riding instructions. Stress that an OHM is not a toy. Follow safety precautions strictly to provide a “safety first” approach to off-highway motorcycle riding. Teaching your youngster how to ride an OHM safely will increase the enjoyment of off-highway motorcycle riding.

**Learning Area/Riding Area**

The best place for learning is a level area 100' x 200' that is free from obstacles such as rocks, stumps, or holes. The learning area may have a loose or hard dirt surface. A grassy surface is also acceptable. It should not have two different surfaces. **Under no circumstances should the surface be concrete or asphalt.** Be sure there is room enough to maneuver, and that no other riders are close.
PART 3

Getting Used To The Vehicle In Motion

GETTING THE FEEL OF THE BRAKES

Be sure your youngster is wearing all of the proper protective gear. With the engine still OFF, have your youngster mount the motorcycle. If you physically can, push the motorcycle slowly. Have your youngster brake to feel how much pressure is needed for a smooth stop. If your youngster’s motorcycle has more than one brake, both should be applied with even pressure. Practice this several times until you are sure this skill is developed. Remind your youngster to keep his or her head up and look forward.

GETTING THE FEEL OF THE THROTTLE

With the engine OFF, have your youngster practice smooth throttle control. Your youngster will learn how much throttle it takes to start moving in a later exercise. Explain that opening the throttle will increase speed and that closing the throttle will decrease speed. Releasing the throttle and applying the brakes will slow the motorcycle. Ask your youngster to tell you how throttle control and braking affect the motorcycles speed.

GETTING THE FEEL OF THE CLUTCH (if equipped)

With the engine OFF, have your youngster practice smooth clutch control. Have your youngster shift the motorcycle into first gear. While you push the motorcycle have the youngster slowly release the clutch lever. The point which the motorcycle stops moving indicates the clutch engagement point or “friction zone.” The “friction zone” is the point at which engine power begins to be transmitted to the rear wheel. Explain that this is the point the motorcycle will start moving when the engine is running. Smooth operation will prevent stalling and
allow smooth shifting. Remind the youngster that the throttle should be closed when shifting gears. Practice this exercise several times until the skill is developed.

**GETTING THE FEEL OF TURNING**

With the vehicle stopped and the engine OFF, have your youngster practice the proper turning technique:

1. For a right turn, look to the right and lean the motorcycle to the right.
2. For a left turn, look to the left and lean the motorcycle to the left.

Repeat this exercise with the kickstand up as you push the motorcycle. Make sure he or she can turn the vehicle in both directions using this technique while you maintain balance of the motorcycle.
PART 3

BEING PREPARED FOR RIDING PRACTICE

Be sure to observe all the safety precautions covered in the Introduction and Parts 1 and 2. Double check that the riding area is free from hazards. Your youngster should wear all the proper protective gear, and the speed limiter (if equipped) should be installed and working correctly.

STARTING THE MOTORCYCLE

Always start the motorcycle for your youngster. To remember the proper starting technique use “FINE-C.”

Double check for neutral. Start the engine. Have your youngster carefully mount. Let your youngster operate the engine stop switch and shut off the motor. Re-start the engine and repeat. Allow the engine to warm up until it runs smoothly with the choke off.

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<thead>
<tr>
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<tbody>
<tr>
<td>F</td>
<td>FUEL VALVE</td>
<td>Put to &quot;on&quot; position.</td>
</tr>
<tr>
<td>I</td>
<td>IGNITION</td>
<td>Ignition on.</td>
</tr>
<tr>
<td>N</td>
<td>NEUTRAL</td>
<td>Motorcycle in neutral (the motorcycle rolls with the clutch lever released).</td>
</tr>
<tr>
<td>E</td>
<td>ENGINE</td>
<td>Stop switch in run/on start position.</td>
</tr>
<tr>
<td>C</td>
<td>CHOKE</td>
<td>On (for cold engine only).</td>
</tr>
</tbody>
</table>
Let's Start Riding

Walk next to the motorcycle when your youngster first starts riding. You can also let the beginner ride back and forth between you and another adult. Help your youngster with the turns as he or she practices throttle control and braking.

STARTING OUT AND STOPPING

Before your youngster moves the motorcycle under power, take a few moments to practice smooth clutch control. After shifting to first gear, have your youngster rock the motorcycle a few inches back and forth by moving the clutch in and out of the “friction zone.” The clutch is not fully released while doing this. It is important that clutch operation is smooth before riding in the practice area.

The next practice session is straight-line starts and stops. Keep the riding under control.
PART 3

However, riding too slowly will make balance more difficult. Both brakes should be used together for smooth stops. The left foot should be placed on the ground first, keeping the right foot on the rear brake.

Be sure your youngster develops a good feel for the use of the throttle and controls. After the youngster has mastered starting and stopping at slower speeds, increase speeds by shifting.

TURNING

Remind your youngster of the two steps for turning:
1. For a right turn, look to the right and lean the motorcycle to the right.
2. For a left turn, look to the left and lean the motorcycle to the left.

Have your youngster practice turning in both directions at slow speeds. Allow enough room to make a wide turn. After your youngster is skilled in making wide turns, try tighter turns.

Keep speed slow.

Your youngster should master these skills at low speeds before going faster. Next, practice some figure eights. This will help your youngster make left and right turns. Make sure your youngster keeps both feet on the foot pegs and looks ahead in the turns.

Once these skills are mastered, refer to the Tips & Practice Guide for the Off-Highway Motorcyclist for additional skills used in off-highway riding.
This Readiness Checklist is provided to help you determine your youngster’s readiness to learn to safely operate and control an OHM. There is a significant amount of judgment needed in determining a youngster’s readiness to ride an OHM. The ultimate decision is the responsibility of the parent, guardian, or supervising adult. It is important that parents make informed decisions about whether or not their youngster becomes involved in off-highway motorcycle activity.

There are four developmental areas considered in the Readiness Checklist. These include: visual perception/motor development, physical development, social/emotional development, and reasoning and decision-making ability. Several questions are listed to help you determine if your youngster possesses the skills and capabilities to safely learn to operate an OHM.

The best way to utilize the Readiness Checklist is to read the particular ability, consider the answers to the questions for that ability, and check those abilities that you determine are present in your youngster. There are no suggestions as to how many abilities or the degree of ability that your youngster should possess. This Readiness Checklist may help you consider the appropriateness of OHM operation for your child. The ultimate decision for your youngster’s involvement with off-highway motorcycles belongs to you, the parent.
VISUAL PERCEPTION/MOTOR DEVELOPMENT

**Ability**

1. Youngster can see with sufficient clarity.

2. Youngster possesses ability to perceive depth or distance.

3. Youngster has adequate side vision/peripheral vision.

4. Youngster can judge the speed of objects.

**Points to Evaluate**

- Can youngster see letters and numbers at least as well as you?
- Can youngster distinguish colors?
- Has youngster demonstrated adequate vision in other activities (riding bicycles, running, sports, or other recreational activities)?
- When looking at two objects in the distance, can youngster tell which is farther or closer?
- Can youngster see objects 90 degrees to each side while looking straight ahead?
- Does the youngster judge the speed of objects (fast, medium, slow) that agree with your judgments? (For example, a car on the highway, a train moving past a crossing, a dog running, people walking.)
### Ability

| Points to Evaluate | ✓
|--------------------|---
| 5. Youngster can state the distances of objects in terms of feet, yard, miles.<br> | Can youngster tell how many feet or yards it is from the house to the road?<br> |
| 6. Youngster can follow movement of objects.<br> | Can youngster tell how wide a hallway is, or the width of a room?<br> |
| 7. Youngster can visualize distances as displayed by a picture or photograph.<br> | Can youngster follow the path of such things as: a hit or thrown baseball, a moving car, objects in a video game?<br> |
| 8. Youngster can follow a moving object while accomplishing hand manipulation.<br> | Can youngster estimate distance between objects in a family photograph?<br> |
| 9. Youngster can describe cause-and-effect experiences.<br> | Can youngster estimate distance between objects when looking at a landscape picture?<br> |

| ✓
| ---
| 5. Youngster can state the distances of objects in terms of feet, yard, miles.<br> | Can youngster tell how many feet or yards it is from the house to the road?<br> |
| 6. Youngster can follow movement of objects.<br> | Can youngster tell how wide a hallway is, or the width of a room?<br> |
| 7. Youngster can visualize distances as displayed by a picture or photograph.<br> | Can youngster follow the path of such things as: a hit or thrown baseball, a moving car, objects in a video game?<br> |
| 8. Youngster can follow a moving object while accomplishing hand manipulation.<br> | Can youngster estimate distance between objects in a family photograph?<br> |
| 9. Youngster can describe cause-and-effect experiences.<br> | Can youngster estimate distance between objects when looking at a landscape picture?<br> |

| ✓
| ---
| 5. Youngster can state the distances of objects in terms of feet, yard, miles.<br> | Can youngster tell how many feet or yards it is from the house to the road?<br> |
| 6. Youngster can follow movement of objects.<br> | Can youngster tell how wide a hallway is, or the width of a room?<br> |
| 7. Youngster can visualize distances as displayed by a picture or photograph.<br> | Can youngster follow the path of such things as: a hit or thrown baseball, a moving car, objects in a video game?<br> |
| 8. Youngster can follow a moving object while accomplishing hand manipulation.<br> | Can youngster estimate distance between objects in a family photograph?<br> |
| 9. Youngster can describe cause-and-effect experiences.<br> | Can youngster estimate distance between objects when looking at a landscape picture?<br> |

Can youngster describe a minor injury he or she received and correctly describe the causes?<br>
Can youngster describe settings or situations that can produce injury if precautions are not taken?
Ability

10. Youngster can concentrate on more than one element at a time in solving a puzzle or problem.

11. Youngster can maintain relative spans of attention when given a variety of stimuli.

Points to Evaluate

- Can youngster describe what may cause injury when doing such things as running, swimming, bicycling, riding in a car?
- Can youngster pick out or describe several items within a picture?
- Can youngster assemble a puzzle without unusual problems or delays?
- Can youngster describe what to do if a house fire should occur?
- Can youngster complete school homework assignments without being easily distracted?
- Can youngster assemble more difficult puzzles; for example, a nature scene or picture?
Physical Development

### Ability

1. Youngster can sit comfortably on the motorcycle and reach the controls easily.

2. Youngster has sufficient strength and familiarity to operate the controls with ease.

### Points to Evaluate

- Can youngster place his or her feet firmly on the footpegs?
- Do the youngster’s fingers reach comfortably around the handlebars and control levers? How about with the handlebars turned? How about in different seating positions?
- Can youngster stand (with knees slightly bent) and have a few inches of space from the seat?
- Can youngster easily reach the foot controls?
- Can youngster dress with proper protective gear including putting on helmet and fastening the chin strap?

While sitting on the vehicle, can youngster:

- Squeeze the hand controls?
- Operate the shift lever (if equipped)?
- Operate the choke and fuel valve with ease?
- Press the brake lever with sufficient pressure
- Operate the controls without looking at them?
<table>
<thead>
<tr>
<th>Ability</th>
<th>Points to Evaluate</th>
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</thead>
<tbody>
<tr>
<td>3. Youngster is sufficiently coordinated.</td>
<td>✓ Can youngster walk a “balance beam” (2&quot; x 4&quot; x 8’) flat on floor?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster ride a bicycle, rollerskate or skateboard safely?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster walk on tiptoes for 10 feet?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster jump rope?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster catch a ball with hands rather than with arms?</td>
</tr>
</tbody>
</table>

| 4. Youngster has sufficient endurance to maintain strength over a period of time. | □ Can youngster play outdoor games without fatigue? |
|                                                                              | □ Can youngster participate in indoor games and sports without tiring before other youngsters? |
### PART 4

#### SOCIAL/EMOTIONAL DEVELOPMENT

**Ability**

1. Youngster can understand and follow rules.

2. Youngster generally will obey parents and supervisors.

3. Youngster controls behavior according to expectations?

**Points to Evaluate**

- Does youngster follow rules established at home?
- Do teachers say that the youngster follows rules?
- Does youngster listen and respond to adult supervision?
- Does youngster comprehend the importance and seriousness of having rules and regulations?
- Does youngster avoid challenging authority or rebelling when rules are imposed?
- Does youngster show evidence of self-control...doesn’t get easily frustrated or upset?
- Does youngster understand consequences associated with certain actions (like not wearing a safety belt in the car)?
- Does youngster think about results before performing some action (like crossing the street, hitting or throwing a ball)?
<table>
<thead>
<tr>
<th>Ability</th>
<th>Points to Evaluate</th>
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<tbody>
<tr>
<td>4. Youngster understands other youngsters may be permitted to do what he/she may not be allowed to.</td>
<td>□ Does youngster recognize unsafe actions of other youngsters?</td>
</tr>
<tr>
<td></td>
<td>□ Does youngster appreciate being safer than others?</td>
</tr>
<tr>
<td></td>
<td>□ Does youngster accept rules that are more stringent than what other youngsters have to follow?</td>
</tr>
<tr>
<td>5. Youngster can give reasons and/or solutions to problems seen in the environment.</td>
<td>□ Can youngster explain how land (or grass) gets worn?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster explain how even small damage to land can take years to recover?</td>
</tr>
<tr>
<td></td>
<td>□ Can youngster distinguish between untouched land and used land?</td>
</tr>
<tr>
<td>6. Youngster can make decisions based on reality and not fantasy.</td>
<td>□ Can youngster complete a task in a step-by-step fashion (assemble a toy, clean a room)?</td>
</tr>
<tr>
<td></td>
<td>□ Does youngster comprehend real injury as opposed to “cartoon” injury?</td>
</tr>
<tr>
<td></td>
<td>□ Does youngster respond with logical solutions when asked to solve a problem?</td>
</tr>
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PART 4

REASONING AND DECISION-MAKING ABILITY

**Ability**

1. Youngster comprehends that interaction with others and things can result in injury.

2. Youngster has a basic understanding of what being careful means.

**Points to Evaluate**

- Can youngster describe how and why a person received physical injury or pain?
- Does youngster notice impending accidents or potential injury-producing events, such as in sports activities or bicycle riding?
- Can youngster explain why it takes distance to stop?
- Can youngster explain how moving at even low speed can result in injury if stopped suddenly or by hitting something?
- Does youngster know why rules are established?
- Does youngster notice or recognize others being careful in action-oriented activities?
- Does youngster notice professional athletes use protective gear as part of their sport?
### Ability

3. Youngster understands that rules are made to reduce injury and provide long-term enjoyment.

4. Youngster has basic understanding of the physical limitations of stopping and turning.

### Points to Evaluate

- [ ] Can youngster explain the reason for rules at home or school?
- [ ] Does youngster understand the value of prevention? Of wearing protective gear?
- [ ] Can youngster recognize that not following rules can eliminate future fun and enjoyment?
- [ ] Can youngster explain what may happen if moving too fast while going around a curve on a bicycle? On a skateboard? On an off-highway motorcycle?
We hope this booklet has helped you and your youngster take a “safety first” approach to off-highway motorcycle riding. All off-highway motorcycle riders must use good judgment and be responsible. It is up to YOU to set a good example about motorcycle safety. You must help your youngster ride sensibly and safely at all times.

After your youngster has mastered the riding skills in this booklet and has matured to a higher level of skills, he or she may be ready to practice more advanced riding. The Motorcycle Safety Foundation’s Tips & Practice Guide for the Off-Highway Motorcyclist booklet provides information about riding on hills, riding across slopes, and other more advanced skills. Youngsters should have a good understanding of riding skills before using unfamiliar areas. They should ride on flat areas, gentle hills, and gradual slopes. Be sure that your youngster rides slowly over unfamiliar terrain to locate and avoid bumps, holes, and other possible hazards. You should check the area first.

The Motorcycle Safety Foundation also recommends a video program, The MSF DirtBike School: Learn to Ride Safely. It demonstrates and discusses responsible riding practices.

It is also recommended that you and your youngster read the information in the owner’s manual. To find out more about rider education and off-highway motorcycle safety programs offered, or to order the video or publications, contact the Motorcycle Safety Foundation at 2 Jenner, Suite 150, Irvine CA 92618, 949.727.3227 or visit dirtbikeschool.com
**BRAKES** - The parts of a motorcycle which allow the operator to slow down or stop the machine.

**BRAKE LEVER** - The hand brake located on the handlebar.

**BRAKE PEDAL** - The foot brake which is operated by the right foot.

**CABLES** - Heavy insulated wires. There are two kinds: mechanical and electrical. Brake cables are mechanical. The headlamp cable is electrical.

**CARBURETOR** - Device which provides the engine the proper mixture of fuel and air.

**CHOKE** - A device which enriches the mixture of gasoline and air supplied to the engine for cold engine starting.

**CLUTCH LEVER** - The hand lever used to disengage the clutch when changing gears.

**DRIVE CHAIN** - The chain which connects the engine to the rear axle to give a motorcycle motion.

**ENGINE STOP SWITCH** - Switch used to stop the engine without removing the hands from the handlebars.

**EXHAUST** - Leftover gases from the combustion process that come out of the tailpipe when the motorcycle engine is running. Exhaust contains deadly carbon monoxide gases.

**EYE PROTECTION** - Goggles or a shatter resistant shield worn over the eyes while riding to protect against dust, flying insects, or other debris. Such eye protection, when tinted, may be effective against bright sun or snow-glare conditions.

**FINE-C** - A pre-start routine. A way to remember the pre-start routine:
- **F** - Fuel valve on
- **I** - Ignition on
- **N** - Neutral
- **E** - Engine stop switch in run position
- **C** - Choke

**FOOTPEGS** - Pivoting pegs on which a motorcycle operator should keep his/her feet while riding.

**FUEL VALVE** - A valve, usually hand operated, with an on, off and “reserve” position. Controls gasoline flow to the carburetor.
GLOSSARY

HANDLEBAR - The metal bar attached to the front end of the motorcycle that turns the front wheel for steering. Many of the controls for the motorcycle are located on the handlebar.

HELMET - The most important protective clothing to be worn when operating a motorcycle. It covers the head and helps protect against skull fracture or brain injury in an accident.

OFF-HIGHWAY or OFF-ROAD VEHICLE - Any vehicle, including off-highway motorcycles and ATVs, which is restricted by law from operating on public roads.

OHM - Off-Highway Motorcycle

PSI - Refers to air pressure in the tires and stands for “Pounds per Square Inch.”

READING THE TERRAIN - Looking well ahead while riding, anticipating hazards.

SHIFT LEVER - On those motorcycles equipped with a shift lever, it allows the operator to change gears. The shift lever is operated by the left foot.

TAILPIPE - That part of the exhaust system which expels waste gases.

THROTTLE - The control operated by the right hand which controls the engine speed.

TRACTION - Tread friction between the ground and the tires.

TRANSMISSION - Mechanism used to transmit power from the engine to the wheels.
CROSSWORD PUZZLE

ANSWERS

1. SAFETY

2. HELMET

3. GLOVES

4. OFFROAD

5. CLUTCH

6. B

7. O
ANSWERS

NAME THE MOTORCYCLE PARTS  (Typical)

1. Clutch lever
2. Hand brake lever
3. Foot brake lever or pedal
4. Throttle
5. Choke or enrichening device
6. Engine stop switch
7. Gas cap/tank vent
8. Starter (kick)
9. Electric starter (if equipped)
For the rider training location nearest you, call: (877) 288-7093
dirtbikeschool.com

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INDEX

riding sag, checking ........................................... 34
spring preload, adjusting .................................... 35
static sag, checking ........................................... 34
Shock absorber article number ................................. 15
Side cover, left
  installing ..................................................... 53
  removing ................................................... 52
  securing ..................................................... 54
Spare parts ..................................................... 10
Spoke tension
  checking ..................................................... 91
Start number plate
  installing ..................................................... 48
  removing ................................................... 48
Starting ............................................................ 23
Steering head bearing
  lubricating ................................................... 48
Steering head bearing play
  adjusting ..................................................... 47
  checking ..................................................... 47
Stop button ..................................................... 16
Storage ............................................................ 106
T
Technical data
  capacities ..................................................... 113
  carburetor ................................................... 112
  chassis ....................................................... 114
  chassis tightening torques ............................... 115
  engine ......................................................... 110
  engine tightening torques ................................ 110
  fork ........................................................... 113
  shock absorber ............................................. 113
  tires .......................................................... 115
Throttle cable routing
  checking ..................................................... 67
Throttle grip ..................................................... 16
Tire condition
  checking ..................................................... 89
Tire pressure
  checking ..................................................... 90
Transporting .................................................... 26
Troubleshooting ................................................. 108-109
Type label ....................................................... 14
U
Use definition .................................................... 6
V
Vehicle identification number ................................ 14

View of vehicle
  front left .................................................... 12
  rear right ................................................... 13
W
Work rules ....................................................... 8