
ENGLISH



Husqvarna



EN - 1

PRESENTATION

Welcome to the Husqvarna motorcycling Family!
Your new Husqvarna motorcycle is designed and manufactured to be the best in its field. The instructions in this book have been prepared to provide a simple and understandable guide for your motorcycle's operation and care. Follow the instructions carefully to obtain maximum performance and your personal motorcycling pleasure. Your owner's manual contains instructions for owner care and maintenance. The main repair or maintenance work requires the attention of a skilled mechanic and the use of special tools and equipment. Your Husqvarna Dealer has the facilities, experience and original parts necessary to properly render this valuable service.

This "Owner's Manual" is part and parcel of the motorcycle, hence, it shall remain with the motorcycle even when sold to another user.

This motorcycle uses components designed thanks to systems and state-of-the-art technologies which are thereafter tested in competitions.

In racing motorcycles, every detail is verified after each race in order to always guarantee better performance. To ensure trouble-free operation of the vehicle, it is necessary to follow the maintenance and inspection table.

IMPORTANT NOTICES

All the motorcycles and any of their parts used in competitions of any type are excluded from the warranty.

IMPORTANT

In order to maintain the vehicle's "Guarantee of Functionality", the client must follow the maintenance programme indicated in the user's manual by carrying out maintenance inspections at authorised HUSQVARNA dealers.

The cost for changing parts and for the labour necessary in order to comply with the maintenance plan is charged to the Client.

NOTE: the warranty is NULL AND VOID if the motorcycle is rented.

Important Notice

Read this manual carefully and pay special attention to statements preceded by the following words:



DANGER
Indicates the possibility of severe personal injury or death if instructions are not followed.



WARNING
Indicates the possibility of personal injury or vehicle damage if instructions are not followed.

Note*: Gives helpful information.

Parts Replacement

When parts replacement is required, use only Husqvarna ORIGINAL parts.



After a crash, inspect the motorcycle carefully. Make sure that the throttle control, the brakes, and all other systems are undamaged. Riding with a damaged motorcycle can lead to a serious accident.

Any change made to the vehicle, and the removal of original parts may affect vehicle performance, and thus reducing safety level or even making it illegal to ride.



Never attempt to start or operate your motorcycle unless you are wearing appropriate protective clothing. Always wear a motorcycle helmet, boots, gloves, goggles and other appropriate protective clothing.

Note

- References to the "left" or "right" of the motorcycle are considered from the point of view of a person facing forward.

● Z:	number of teeth
● A:	Austria
AUS:	Australia
B:	Belgium
BR:	Brazil
CDN:	Canada
CH:	Switzerland
D:	Germany
E:	Spain
F:	France
FIN:	Finland
GB:	Great Britain
I:	Italy
J:	Japan
USA:	United States of America

- Unless otherwise specified, all the data and the instructions are referred to any and all Countries.

SUMMARY

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IDENTIFICATION DATA

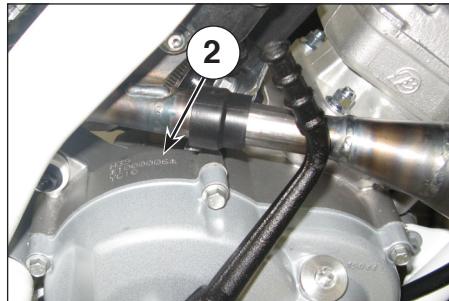
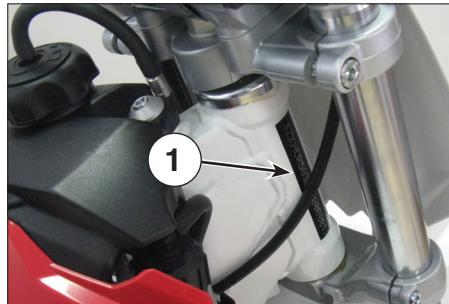
The engine identification number is stamped on the top R.H. side of the crankcase, while vehicle serial number is stamped on the steering tube.

Always quote **the number stamped on the frame** when ordering spare parts or requesting further details about your vehicle and note it on this booklet.

CHASSIS NUMBER

ENGINE NUMBER

DEALER STAMP



1. Chassis serial number
2. Engine serial number

VEHICLE IDENTIFICATION NUMBER (V.I.N.)

The full 17-digit serial, or Vehicle Identification Number, is stamped on the steering tube (R.H. side).

(●) = Model designation

(▲) = Model Year (2011)

(◆) = Progressive no.

ZKHCR5030BV000001

(●) (▲) (◆)

GENERAL NOTICES AND PRECAUTIONS

Before using the minicross, carefully read this manual, and in particular the "Safe Ride" section.

Your child's safety does not only depend on quickness of reflexes and readiness, but also on the knowledge of the vehicle, its efficiency and on the knowledge of the basic rules for a **SAFE RIDE**. We thus recommend you becoming familiar with the vehicle in a wide area without surrounding obstacles.



Failure to respect the instructions set forth in this manual leads to minicross misuse, with the consequent endangering of your child's and other people's safety.

Note*: This manual shall be considered as an integral part of the minicross, and it shall remain with the motorcycle even when sold to another user.

Husqvarna has written this manual with the utmost attention to the correctness and topicality of the supplied information. Nevertheless, as Husqvarna products are subject to continuous design improvements, some slight differences between the features of your vehicle and those described in this manual may be present.

For any clarification about the information contained in this manual; contact your Official Husqvarna Dealer.

For any check or repair operation not specifically described in this manual, the purchase of Husqvarna original spare parts, accessories and other products, as well as for special advice, contact Husqvarna Official Dealers and Service Centres only, as they ensure a prompt and accurate assistance.

Thanks for choosing Husqvarna. Have a pleasant ride.

All electronic storage, reproduction and partial or total adaptation (with any means) rights are reserved for all Countries.

Note*: The prevailing laws in some countries require the compliance with anti-pollution and anti-noise regulations, as well as the performance of periodical checks.

The user riding the vehicle in such countries, shall:

- contact a Husqvarna Official Dealer for the replacement of the concerned parts with other homologated ones for the concerned country;
- carry out the required periodical checks.



The vehicle has been manufactured with non-edible parts. Do not bite, suck, chew or swallow any vehicle parts for whatever reason.

The European Commission recommended to forbid the use of mini motorbikes to children below 14 years of age, attachment I, 15 of Legislative Decree 313/1991

The mini motorbike features SAFETY DEVICES to protect rider during use and maintenance. Safety devices removal is strictly forbidden and may lead to severe injuries or even death.

This bike is EC certified according to the European standards, and it is thus not destined for sale and use in USA and CANADA.

WARNINGS FOR THE USE OF OILS.



Oil can cause severe skin injuries if handled for a long time and daily. We recommend washing your hands thoroughly after oil handling.

Upon maintenance operations, wear latex gloves.

KEEP OUT OF REACH OF CHILDREN, AND DO NOT DISPOSE OF OIL IN THE ENVIRONMENT, BUT TAKE IT TO THE SPECIAL COLLECTION CENTRES.



Work with care.

Do not spread oil!

Take care not to foul any part, the area you are working on and the surrounding area with oil. Thoroughly clean any oil off. In case of oil leaks or malfunction, contact Husqvarna Official Dealer.



NOTICES FOR PARENTS

The mini motorbike shall be used off road only, and by one child only. It shall not be used on asphalted or public roads.

The minicross is suitable for use for children from 4 to 8 years of age, with a max. weight of 35 kg, and a max. height of 130 cm.

TRANSPORTING THE MINICROSS

The minicross shall be transported in vertical position, and duly secured with special elastic bands and with the fuel tank empty. As for the safe use of fuel, respect the instructions specified in paragraph "REFUELLING". For tank emptying, use a hand pump and a homologated container for fuel having a capacity of at least 3 litres.

SAFE RIDE, CHECKS/EXPLANATIONS BY THE PARENT TO HIS CHILD BEFORE USING THE MINICROSS

- Your child will have to wear suitable clothing for off-road use of the mini motorbike, and personal protective gear such as helmet, knee guards, elbow guards, boots, etc...
- Helmet shall be homologated, whole, and of the right size. Check that visor is whole and clean.
- Before using the minicross, read this owner's manual and make the necessary adjustments, if any. Explain to your child how to use the minicross.
- Make sure that all bike parts are working, and that the maintenance operations specified in this manual are carried out.
- Explain to your child how to use all minicross controls, as well as the correct riding techniques, making sure that he has correctly understood the operation of the vehicle.
- Make sure that your child puts correctly into practice all the instructions you or another adult person will supply him.
- Before having your child riding the minicross, make sure that he is psychologically ready to ride a bike, that he is already able to ride a bicycle, and that he has the physical strength to lift the minicross after a fall.
- Before competing with the vehicle, make sure that your child has had enough time to correctly learn how to ride the minicross.
- Explain to your child that speed has to be adjusted based on ground conditions, and remind him that too a high speed may result in falls.
- Explain to your child that he will have to adjust minicross speed based on visibility, ground conditions, and on his riding capability and experience. Do not allow your son riding the vehicle on too rough, sloping, slippery grounds or on unknown runs, as well as to make too deep fords.
- The minicross shall be ridden under parents' supervision.
- Your child is not allowed to use the minicross in case he has taken medicines; make sure that his psycho-physical conditions are suitable to ride the vehicle, paying special attention to tiredness and sleepiness.
- It is not recommended to lend the minicross to other inexperienced children. Should this nevertheless be the case, make sure that the rider has the necessary requisites to ride the vehicle.
- Explain to your child not to directly hit obstacles that could damage the vehicle or result in the loss of control of the bike.
- The correct riding position your child will have to adopt on the minicross is with both hands on handlebar, and feet resting onto footpegs.

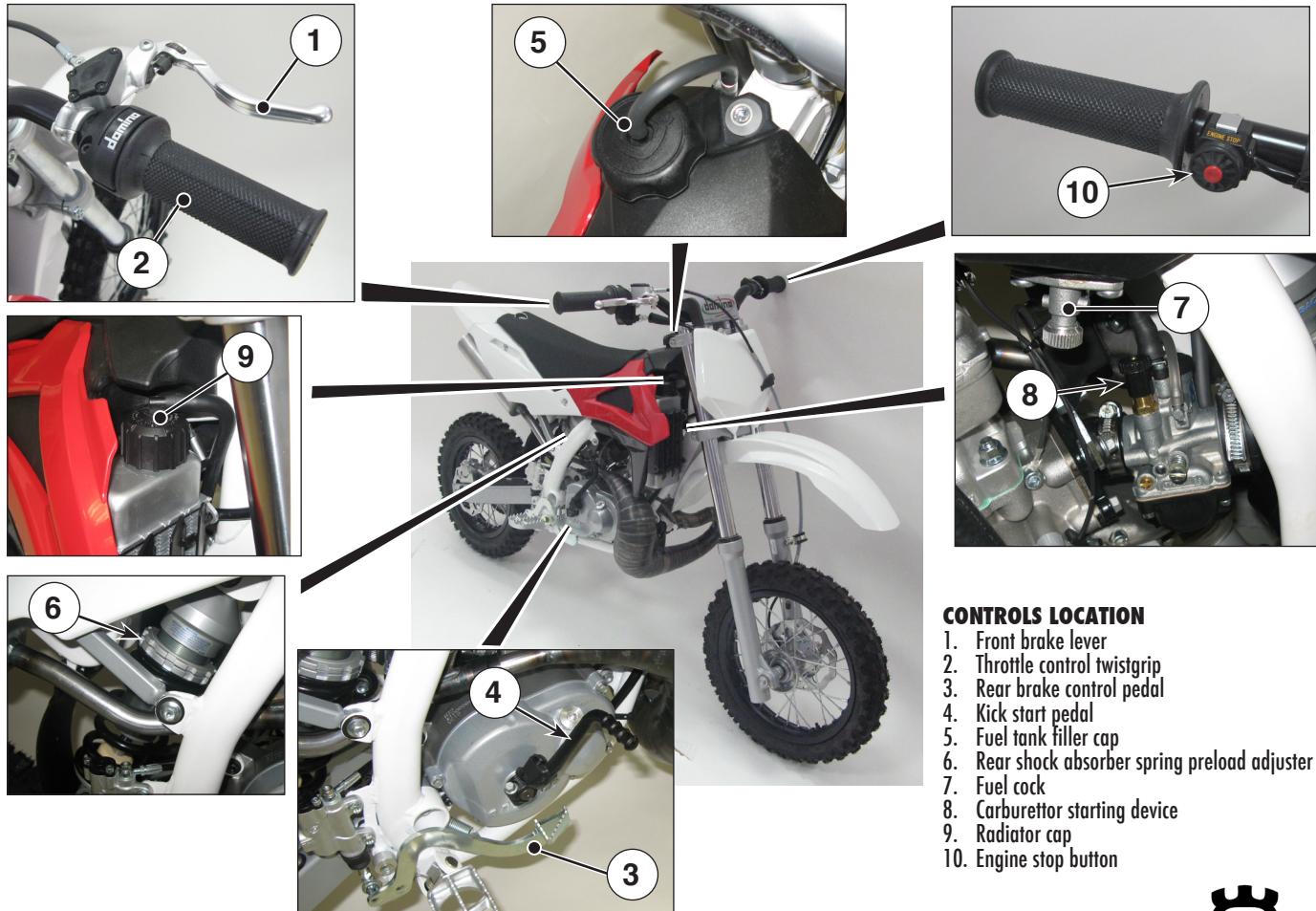
- Use the fuel and lubricants specified for the vehicle in the "LUBRICATION TABLE", repeatedly check that the fuel and oil levels are within the recommended limits.

- Always comply with all the legal provisions and the National and Local regulations on vehicle equipment. Avoid making any technical change to the vehicle to improve its performance or, anyway, to modify its original features.

- Check that your child, when riding the minicross, has no objects inside his pockets that may be potentially dangerous in case of fall: pointed objects such as keys, pens, glass containers, etc.

- Do not secure, by no means, any bulky or heavy object to the vehicle.

Make sure that the vehicle is NOT used if loaded above its declared total loading capacity. The use of the overloaded vehicle can impair ride safety.

**CONTROLS LOCATION**

1. Front brake lever
2. Throttle control twistgrip
3. Rear brake control pedal
4. Kick start pedal
5. Fuel tank filler cap
6. Rear shock absorber spring preload adjuster
7. Fuel cock
8. Carburettor starting device
9. Radiator cap
10. Engine stop button



TECHNICAL DATA

ENGINE

Type	single cylinder, 2 stroke
Liquid cooling with two radiators	
Bore	1.56 in.
Stroke	1.57 in.
Displacement	2.99 cu.in.
Compression ratio	7.12:1
Starting	kick start

LUBRICATION

Engine	3% oil-fuel mixture at 2% of running-in.
Crankcase	

IGNITION

Spark plug type	NGK BR8 ECM
Spark plug electrode gap	0.031 in.

FUEL SYSTEM

Carburettor type Dell'Orto	PHBG 19
High speed jet	.85
Low speed jet	.65

PRIMARY DRIVE

Drive pinion gear	Z 10
Sprocket	Z 43
Transmission ratio	4.3

CHASSIS

Single frame, in steel tubes with rectangular and circular section; rear chassis in steel squared sectioned tubes.

FRONT SUSPENSION

Type "Upside-down" telescopic hydraulic front fork with

advanced axle; tubes ø 1.26 in.
Travel 7.28 in.

REAR SUSPENSION

Type .. progressive with hydraulic single shock absorber (spring preload adjustment)
Wheel travel 7.87 in.

FRONT BRAKE

Type fixed disc Ø 10.24 in.
with hydraulic control.

REAR BRAKE

Type fixed disc Ø 5.51 in. with hydraulic control.

RIMS

Front in light alloy: 1.5x12"
Rear in light alloy: 1.6x10"

TYRES

Front PIRELLI SCORPION 60/100 12" 36M
Rear PIRELLI SCORPION 2.75 -10 37J NHS

Cold tyre pressure

Front 17 psi
Rear 21.3 psi

DIMENSION, WEIGHT, CAPACITY

Wheelbase 39.17 in.
Overall length 55.12 in.
Max. width 25.79 in.
Max. height 34.65 in.
Saddle height 26.77 in.
Min. ground clearance 9.84 in.

Kerb weight, without fuel 95.68 lb.
Fuel tank capacity 0.59 Imp. Gall./0.71 U.S. Gall.

Coolant tank capacity 0.48 Imp. Qt./0.57 Imp. Qt.
Transmission oil

Oil replacement 9.15 cu.in.

TABLE FOR LUBRICATION, SUPPLIES

Crankcase lubricating oil	SAE 20/30
Engine coolant	CASTROL MOTORCYCLE COOLANT
Brake system fluid	CASTROL RESPONSE SUPER DOT 4
Grease lubrication	CASTROL LM GREASE 2
Final drive chain lubrication	CASTROL CHAIN LUBE RACING
Front fork oil	CASTROL SYNTHETIC FORK OIL 5W
Electric contact protection	CASTROL METAL PARTS CLEANER
Fillers for radiator	AREXONS TURAFALLE LIQUIDO

CONTROLS

THROTTLE CONTROL

Throttle control twistgrip (1) is positioned on handlebar right side. Twistgrip rotation increases or decreases engine rpm, and thus also minicross speed.

FRONT BRAKE LEVER

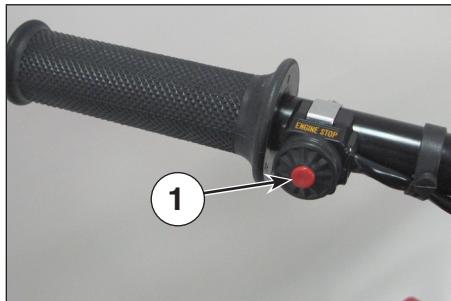
Lever (2) is positioned on handlebar right side. To adjust its inclination, follow the instructions set forth in the MAINTENANCE AND ADJUSTMENTS section.



ENGINE STOP BUTTON

Engine stop button (1) is positioned on minicross L.H. side. Press it to cut the engine electric supply circuit, switching it off.

DANGER
Do not inadvertently press button (1) while the minicross is running.



REAR BRAKE CONTROL

Rear brake control (1) is positioned on minicross R.H. lower side.



TANK CAP

To open tank, turn cap (1) clockwise and remove it; To close tank, insert cap (1) and turn it counter clockwise all the way down.

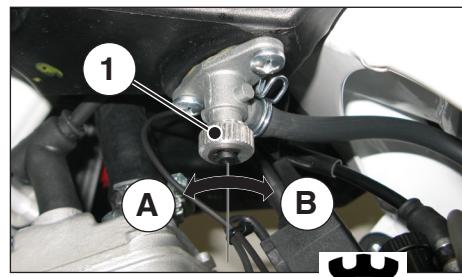
Make sure that tank breather pipe (2) is correctly positioned, as shown in the figure.



FUEL COCK

Fuel cock (1) is positioned on minicross L.H. side, under the tank.

- Turn cock clockwise "A" to open it;
- turn cock counter clockwise "B" to close it.



RADIATOR CAP

Cooling radiator cap (1) is positioned on minicross R.H. side.



Avoid removing radiator cap when engine is hot; as coolant may spout out and cause scalding.

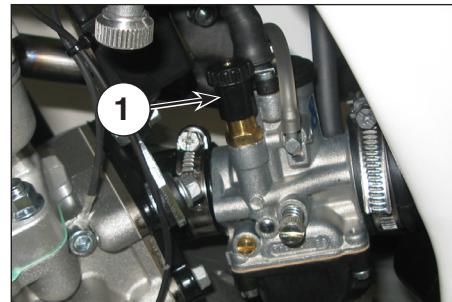


CARBURETTOR STARTING DEVICE

Carburettor starting device is used for minicross cold start.

When starting device is enabled, mixture is enriched and combustion made easier.

- To enable starting device, lift knob (1) and turn it by 1/4 of a turn;
- to disable it, turn knob by 1/4 of a turn after bike start.

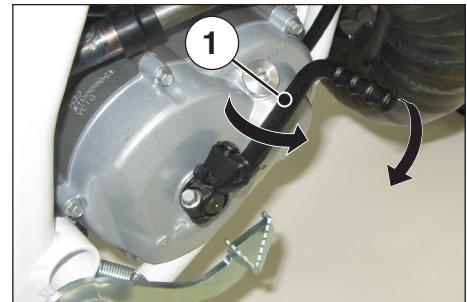


KICK START PEDAL

Kick pedal (1) is positioned on minicross R.H. side. To start the minicross, turn kick start pedal upper part to the outside, and quickly push it down.



To start the minicross, wear protective boots.



REMOVABLE SIDE STAND



Stand shall rest on a solid ground, and minicross shall be in a stable condition.

Side stand (1) shall be positioned inside the special recess (2) located on chassis lower L.H. side.

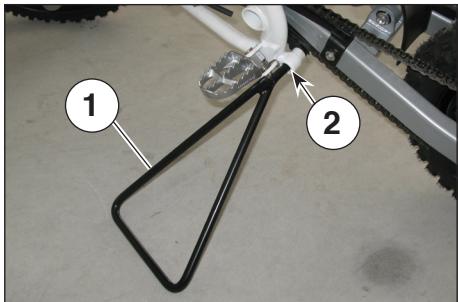
Removing the stand:

- Keep minicross in position, and then remove stand (1) by sliding it out of the special fixed joint.



Stand is designed to support MINICROSS WEIGHT ONLY. Do not seat onto vehicle using stand as a support; this could cause structural failure to the stand resulting in serious injury.

The motorcycle MUST be set on the side stand ONLY AFTER the rider has got off the minicross.



PRELIMINARY OPERATIONS AND CHECKS UPON VEHICLE START



For a correct and safe operation, always carry out a preliminary check on the vehicle, before start. Failure to carry out these operations may lead to severe injuries to your child or serious damage to the vehicle.

In case you find or think there are operating failures, contact a Husqvarna Dealer.

Note*: to carry out checks, always follow the instructions set forth in "MAINTENANCE AND ADJUSTMENTS" section.

- Check transmission fluid level.
- Check fuel level;
- Check brake fluid level;
- Check coolant level;
- Check that drive chain is well tensioned and lubricated.
- Check wheel spokes and tyres correct pressure.
- Check that all the cables (brakes and throttle control) are not damaged and slide freely.
- Check steering correct operation; rotation shall be homogeneous, smooth, and without clearance or loosening.
- Compress front fork and rear suspension, checking that there are no oil leaks, and making sure that it is working properly.

CHECKING THE BRAKING SYSTEM

Check brakes correct operation by manually pulling the mini motorbike, and attempting to brake with both front and rear brakes.



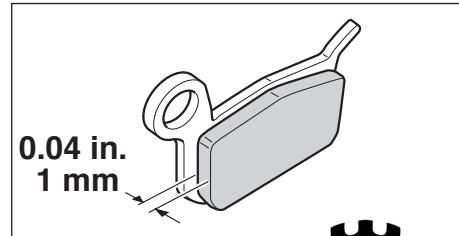
Sudden clearance changes, an elastic strength on brake lever or the brake fluid level below the min. value are due to hydraulic system failures.

In case of doubts on the operation of the braking system or if you are not able to carry out the standard checks, contact an Official Husqvarna Dealer.

Checks to be made:

- Check that brake disc is not oily or greasy. Should this be the case, clean it with a high-quality degreaser.
- Check brake pads wear; if worn out or dirty, change them.

The wear limit of the braking part is 0.04 in.



STARTING

REFUELLING

Use a 2% oil mixture with unleaded fuel with min. octane number of 95 (N.O.R.M.) and good quality oil for two-stroke mixture.
The oil % inside fuel shall be correct, as specified above. A smaller percentage could lead to engine piston damage, and a higher percentage could foul the spark plug.



The fuel used for explosion engines propulsion is extremely flammable and may become explosive under certain conditions. Refuel in a well aerated area and with the engine off. Do not smoke while refuelling and close to fuel vapours; avoid contact with free flames, sparks, and any other source that could ignite or explode it.

Avoid any fuel spillage from filler cap, as it could ignite if it contacts engine hot parts.

Should some fuel be inadvertently spilled, before starting the vehicle make sure that the area is completely dry.

Fuel expands if exposed to heat or sun rays, so never fill up tank to the brim. Once refuelling is complete, thoroughly close cap. Avoid fuel contact with skin, vapour inhalation, fuel swallowing and transfer of fuel from one container to another one using a tube.

DO NOT DISPOSE OF FUEL IN THE ENVIRONMENT.

KEEP OUT OF REACH OF CHILDREN.

Pour mixture inside tank opening (1) (approx. 1.54 Imp. Gall./1.85 U.S. Gall.), and fill it until a max. level of 1.57 in. from the upper edge.

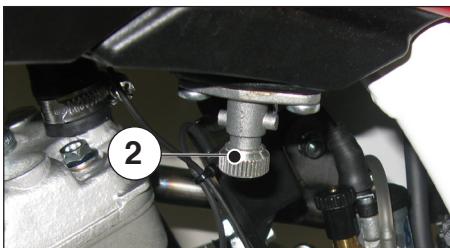
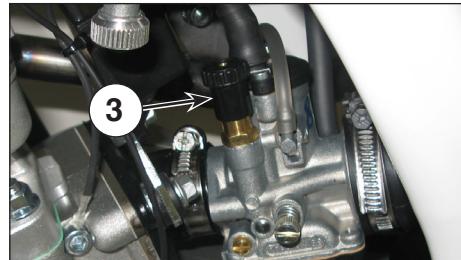
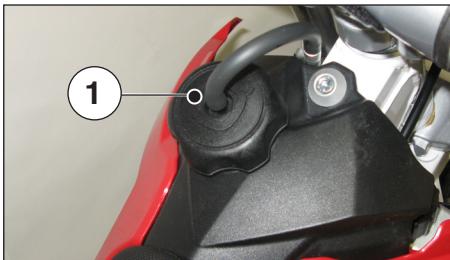
ENGINE START

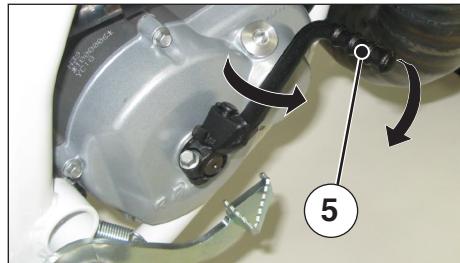


Before starting the minicross, your child will always have to wear the personal protective gear as specified in section SAFE RIDE.

Cold start

- 1) Check that fuel cock (2) is open.
- 2) Turn knob (3) to enable carburettor starting device.
- 3) Pull front brake lever (4).





- 4) Start engine by strongly pressing kick pedal (5) (without accelerating);
Note*: Before attempting to start the bike again, kick pedal shall have gone back to its original position.
- 5) Let engine run at idle speed for a few seconds, and then disable starting device.

Hot start

- 1) Check that fuel cock (2) is open.
- 2) Pull front brake lever (4).
- 3) Start engine by strongly pressing kick pedal (5) (without accelerating);
Note*: Before attempting to start the bike again, kick pedal shall have gone back to its original position.

Start with flooded engine

- 1) Check that fuel cock (2) is closed.
- 2) Pull front brake lever (4).
- 3) Start engine by strongly pressing kick pedal (5) (without accelerating);
Note*: Before attempting to start the bike again, kick pedal shall have gone back to its original position.

- 4) When engine starts running, turn fuel cock (2) to open position.

RIDE

RUNNING-IN

- Engine life and performance will be higher, longer and better after a running-in period of at least 15 days (5 hours) before achieving the top performance levels.
- During the first half an hour of ride, we recommend keeping a low speed avoiding sudden accelerations not to run the engine at full throttle; during the first 3 duty hours, do not exceed 70% of the available power, and for another 2 hours do not exceed 100% of the available power.
- After the first 15 days (5 hours) of operation, change the transmission fluid.
- Check all bolts fasteners.

STARTING AND RIDING THE MINICROSS

- 1) Slowly release front brake lever (1) and, at the same time, gradually turn throttle twistgrip (2).



WARNING
Engine features a centrifugal clutch. Minicross will thus start as soon as you turn throttle twistgrip.

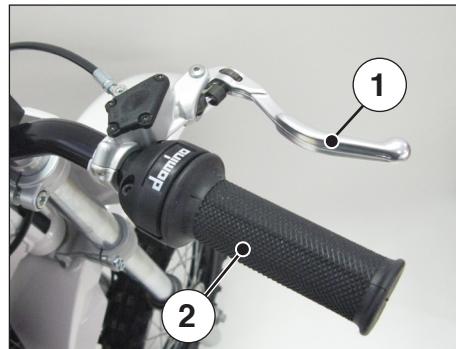
Note*: The clutch assembled on the vehicle is set to "Beginners". You can set it to "Experienced" using the parts coming with the supplied kit.

To shift from "Beginners" to "Experienced", contact qualified personnel.



WARNING
Engine performance increases in the "Experienced" setting; beginners or inexperienced riders should not ride the minicross set to "Experienced".

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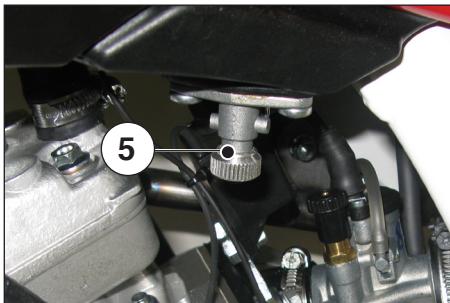
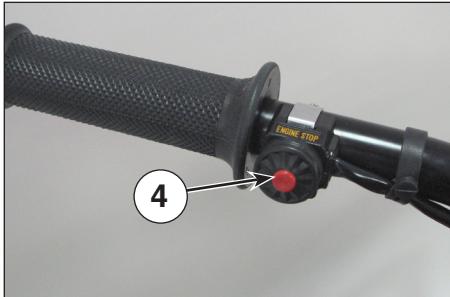
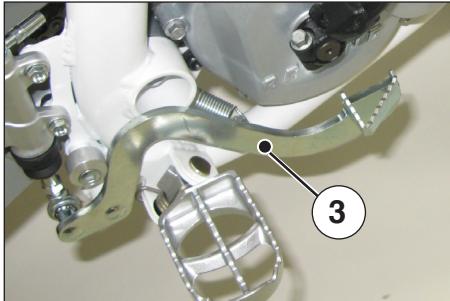
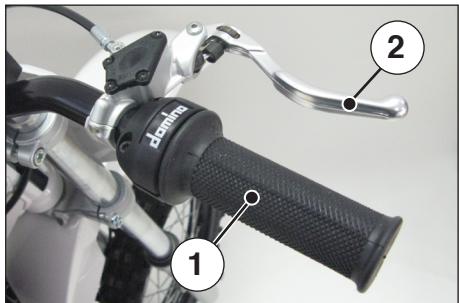
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STOPPING THE MINICROSS AND ENGINE

- 1) Take engine to idle speed turning throttle twistgrip (1).
- 2) Operate both brakes, lever (2) and pedal (3) to reduce speed; before vehicle stops, rest a foot to ground.
- 3) Press engine stop button (4) and hold it until the vehicle has stopped.
- 4) Turn ring nut (5) to close fuel cock.
- 5) Position minicross on removable stand, as described in the corresponding paragraph.



Avoid touching parts such as engine, exhaust pipe and exhaust silencer. Risk of scalding.



CLEANING THE BIKE AFTER USE



Before starting minicross cleaning operations, allow engine and exhaust pipe to cool down to prevent any hazard of scalding or engine cracking due to the contact of cold water used for washing.

- After use, always wash minicross using a low-pressure water jet.



Do not use a high-pressure water jet especially at the bearings, carburettor, exhaust pipe and electrical components. Plug silencer and cover filter box to prevent any water seepage. In any case, after washing always check for any water seepage inside filter box. Should this have been the case, dry it completely.

- To remove any dirt or mud from painted surfaces, thoroughly moisten dirty parts, then use a special bodywork soft sponge well soaked in water and shampoo. Rinse with plenty of water, and dry using a suede cloth.
Clean engine outer parts with a degreaser, brushes and cloths.
- Pay special attention to make sure that all industrial and polluting dust deposits, tar spots, dead insects, birds droppings, etc... are removed from bodywork.
- Do not park the minicross under the trees; on some times of the year residues, resins, fruits or leaves containing chemical substances harmful to painted surfaces may fall down the trees.

⚠ DANGER ⚠

After minicross washing, braking efficiency could be temporarily affected due to the presence of water onto braking system friction surfaces. To avoid accidents, remember to calculate longer braking distances. After having carried out the previously-described checks, operate brakes repeatedly to restore standard braking conditions.

Note*: We remind you that vehicle polishing with silicone waxes shall be carried out after a thorough washing.

⚠ WARNING ⚠

Do not wash vehicle under the sun rays, mainly in the summertime, with the bodywork still hot as the shampoo, drying before rinsing, could cause serious damage to painted parts and decals.

To clean vehicle plastic parts, do not use fluids at a temperature above 40°C.

To clean vehicle rubber and plastic parts, and to clean saddle, do not use alcohol or solvents; use just water and a neutral soap.

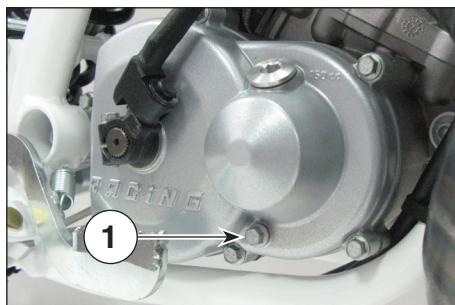
Dry bike after washing.

MAINTENANCE AND ADJUSTMENTS

CHECKING THE OIL LEVEL

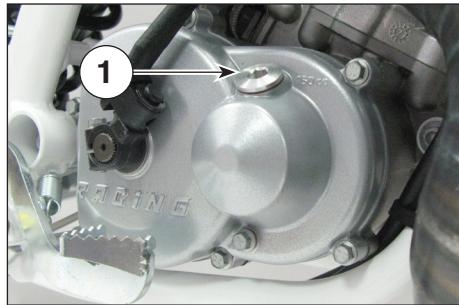
- 1) Position mini motorbike on a flat surface and in vertical position.
- 2) Loosen screw (1), and check that oil level reaches hole edge.

Note*: In case of low oil level, top up using a syringe inside level screw hole.



- 3) remove oil drain cap (2);
- 4) drain off exhausted oil;
- 5) refit oil drain cap (2);
- 6) fill the requested quantity of oil from filler cap hole (1).

Note*: check oil level as specified in the relevant paragraph.



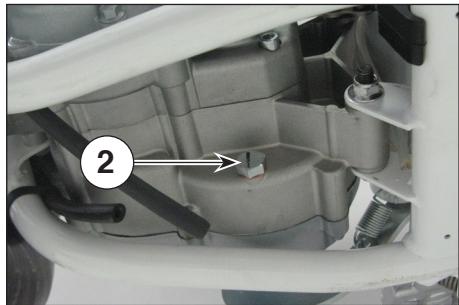
CHANGING OIL

⚠ WARNING ⚠

Be careful not to touch hot engine oil.

Drain the oil with WARM ENGINE; proceed as follows:

- 1) remove oil filler cap (1);
- 2) place an oil drain pan under engine block;



COOLANT LEVEL CHECK



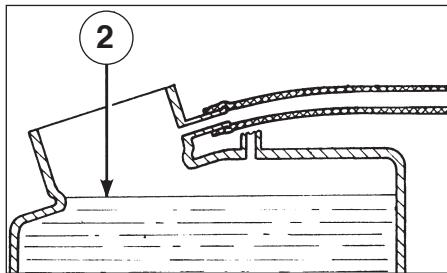
Avoid removing radiator cap (1) when engine is hot, as coolant may spout out and cause scalding.

- 1) Position minicross on a flat surface and in vertical position.
- 2) Remove cap (1) from R.H. radiator.

Note*: The radiator cap (1) features two locking positions, the first being for the previous pressure discharge of the cooling system.
3) Check oil level (2) inside R.H. radiator. The coolant should be approximately 0.39 in. above the cells. If necessary, top up level using a fluid specified in "LUBRICATION AND SUPPLIES" table.

Note*:

Difficulties may arise in eliminating coolant from painted surfaces. If this occurs, wash off with water.



- 2) should this not be the case, move rubber protection (2) aside, release ring nut (3), and turn adjuster screw (4) (loosen it to reduce play, screw it to increase it);
- 3) when through with the adjustment, tighten ring nut (3) and refit the rubber protection (2).



Operation with damaged throttle control cable could result in an unsafe riding condition.

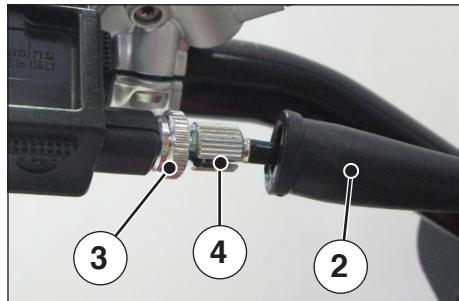


Exhaust gas contains poisonous carbon monoxide. Never run the engine indoors.

THROTTLE CONTROL CABLE ADJUSTMENT

To check the correct adjustment of the throttle control cable, operate as follows:

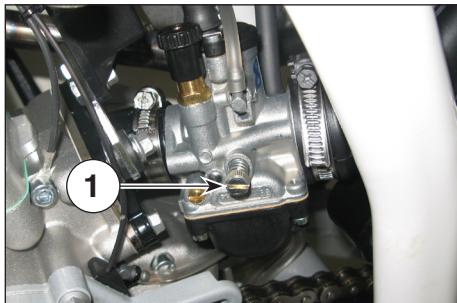
- 1) Turn throttle control twistgrip (1) and make sure it has about 0.08 in. free play;



ADJUSTING THE IDLE

Adjust the carburettor with warm engine and with the throttle control in closed position. Proceed as follows:

- Turn the idle speed adjuster screw (1) located on the left-hand side of the vehicle, on the carburettor, until reaching the desired idle RPM (turn clockwise to increase the speed and counter clockwise to reduce the speed).



SPARK PLUG CHECK

Spark plug (2) gap shall be 0.31 in.

A wider gap may cause difficulties in starting the engine and overload the coil.

A gap that is too narrow may cause difficulties when accelerating, when idling or poor performance at low speed.

Clean the scale away from the base of the spark plug before removing it from the cylinder, after removing the

cap (1).

It is very useful to examine the spark plug conditions just after it has been removed from the engine since the scale deposits on the plug and the colour of the insulator provide useful indications.

Correct heat rating:

The tip of the insulator should be dry and the colour should be light brown or grey.

High heat rating:

In this case, the insulator tip is dry and covered with dark deposits.

Low heat rating:

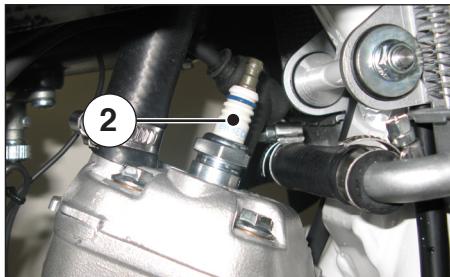
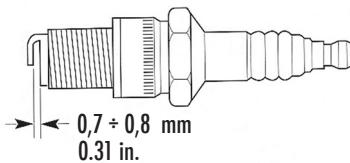
In this case, the spark plug has overheated and insulator tip is vitrified (glazed), white or grey in colour.



Carefully change the spark plug, if necessary, using one having the same rating.

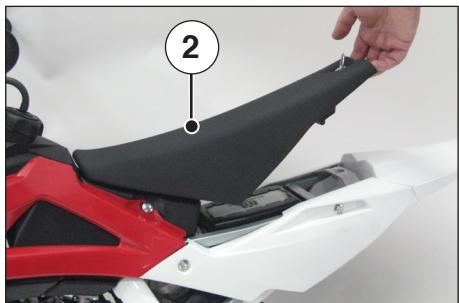
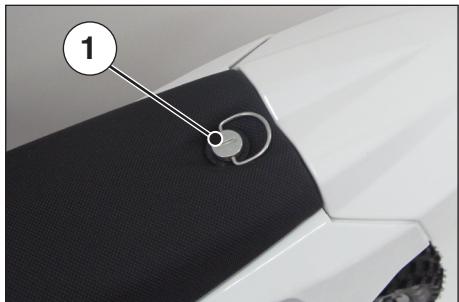
Before refitting the plug, thoroughly clean the electrodes and the insulator using a metal brush. Smear some graphite grease on spark plug thread, do it fully home finger tight then tighten it to 10÷12 Nm/1÷1.2 Kgm/7.38÷8.85 ft/lb torque. Loosen the spark plug then tighten it again to 10÷12 Nm/1÷1.2 Kgm/7.38÷8.85 ft/lb.

Spark plugs which have cracked insulators or corroded electrodes should be replaced.



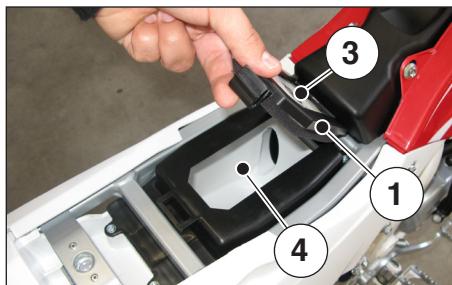
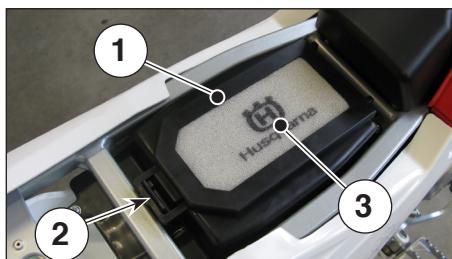
SADDLE REMOVAL

- 1) Turn rear pin (1) counter clockwise.
- 2) Detach saddle (2) from pin with front retaining screw.



CHECKING AND CLEANING THE AIR FILTER

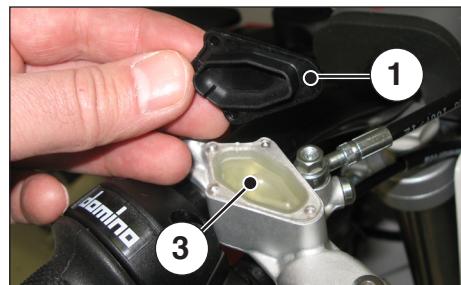
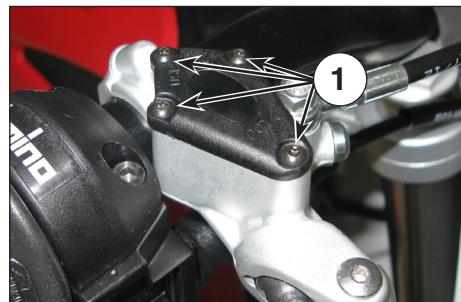
- 1) Remove the saddle as outlined in the relevant paragraph;
- 2) Remove plastic frame (1) using the special hook (2) and remove air filter (3);
- 3) clean filter (3) with special products, then soak it inside the special oil, squeeze it until all oil comes out, and then allow it to dry before refitting it;
- 4) clean filter box (4) inner part with a cloth;
- 5) reassemble all parts, in the reverse order compared to disassembly.



FRONT BRAKE FLUID LEVEL CHECK

To check front brake fluid level, proceed as follows:

- 1) Position minicross on a flat surface and in vertical position.
- 2) Loosen screws (1), and remove cover (2) with membrane (3);



3) check that fluid level is about 0.12 in. from the upper edge. If necessary, top up with fluid specified in the "LUBRICATION AND SUPPLIES" table.

A decrease of the fluid level will let air into the system, hence an extension of the lever stroke.



DANGER
If the brake lever feels mushy when pulled, there may be air in the brake lines or the brake may be defective. Since it is dangerous to operate the motorcycle under such conditions, have the brake system immediately checked by the Husqvarna Dealer.

WARNING
Do not pour brake fluid onto painted parts or lenses.

WARNING

Do not mix two brands of fluid. Completely change the brake fluid in the brake system if you wish to switch to another fluid brand.

WARNING

Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.

ADJUSTING FRONT BRAKE LEVER

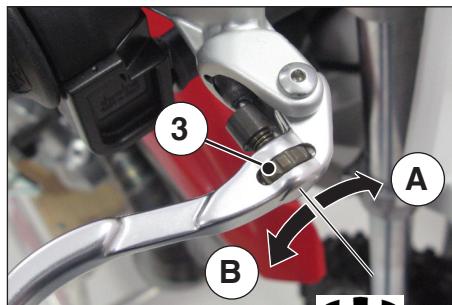
Position adjustment

Brake lever (1) can be adjusted by loosening screws (2). When finished, tighten screws again (2).

EN

Lever distance adjustment

Lever (1) distance from throttle twistgrip can be adjusted using ring nut (3); turn it clockwise "A" to approach the lever, and turn it counter clockwise "B" to drive it away.



REAR BRAKE FLUID LEVEL CHECK

Fluid level - visible through sight glass (1) - must be above the minimum notch on master cylinder reservoir. To restore fluid level, loosen the two screws (2), and remove cover (3). Top up using a fluid specified in "LUBRICATION AND SUPPLIES" table.

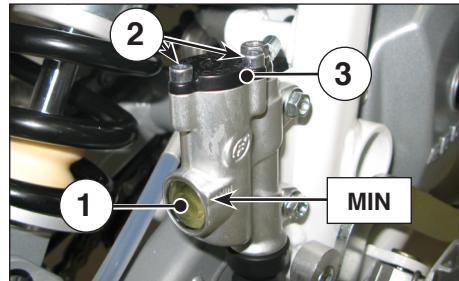
A decrease of the fluid level will let air into the system, hence an extension of the lever stroke.



If the brake pedal feels mushy when pulled, there may be air in the brake lines or the brake may be defective. Since it is dangerous to operate the motorcycle under such conditions, have the brake system immediately checked by the Husqvarna Dealer.



Do not pour brake fluid onto painted parts or lenses.



WARNING
Do not mix two brands of fluid. Completely change the brake fluid in the brake system if you wish to switch to another fluid brand.

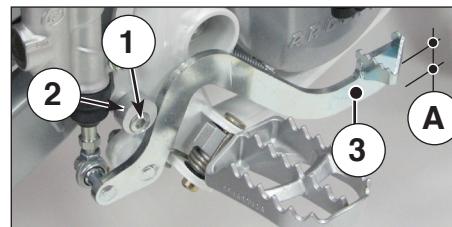


Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.

REAR BRAKE PEDAL POSITION ADJUSTMENT

The position of the rear brake pedal with respect to the footrest may be adjusted according to individual needs. For adjusting, proceed as follows:

- loosen the screw (1);
- turn the cam (2) in order to raise or lower the brake pedal (3) within the range available (A);
- the operation done, tighten the screw (1). Once this adjustment is completed, adjust the free play of the pedal as follows.

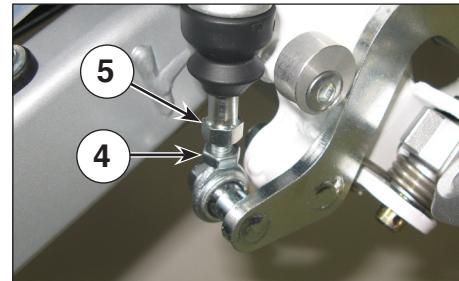
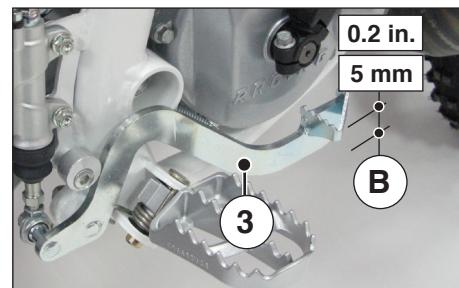


REAR BRAKE PEDAL FREE PLAY ADJUSTMENT

The rear brake pedal (3) should have a free play (B) of 5 mm before the brakes begin to bite.

Should this not happen, operate as follows:

- loosen nut (4);
- operate the pump rod (5) to increase or decrease the free play;
- tighten nut (4) at the end of the operation.



⚠️ WARNING ⚠️

When the free play requirement is not met, the brake pads will be subjected to an early wear that may lead to TOTAL BRAKE INEFFECTIVENESS.

SUSPENSION

Standard suspension setting derives from several extensive demanding tests in various usage conditions and covers a very wide range of use.

⚠️ WARNING ⚠️

ALWAYS remember that the motorcycles used in competitions of any type are excluded from ANY WARRANTY.

ADJUSTING THE SHOCK ABSORBER

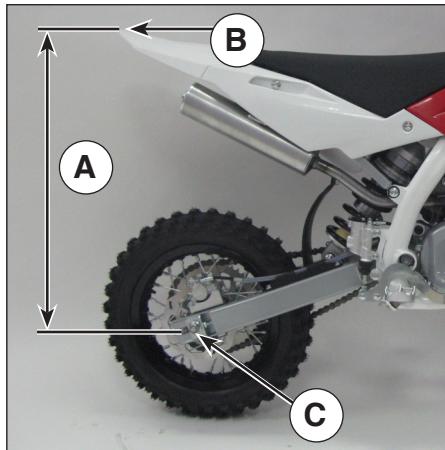
Minicross is delivered with a standard setting of the rear shock absorber. Setting can be adjusted based on rider's weight.

⚠️ WARNING ⚠️

The shock absorber adjustment affects both the stability and the handling of the motorcycle. After changing the standard suspension setting, ride with care.

We advise measuring the reference distance "A" before making any change.

B: rear mudguard top height
C: rear wheel axle height



ADJUSTING THE SHOCK ABSORBER SPRING PRELOAD

Proceed as follows:

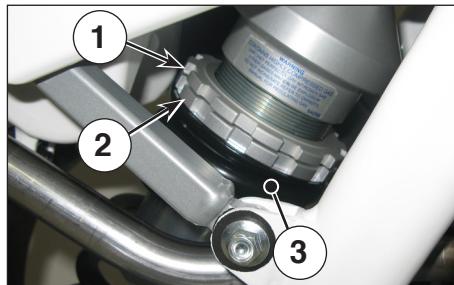
1. Clean lock ring nut (1) and adjuster ring nut (2) of the spring (3).
2. Either with a hook wrench or an aluminium punch, loosen the lock ring nut.
3. Turn the adjuster ring nut as required.
4. When the adjusting operation is over (according to your weight and riding style), tighten the lock ring nut. (Torque: 5 Kgm).

⚠️ WARNING ⚠️

After having adjusted spring preload, make a few test runs at reduced speed to check adjustment correctness.

⚠️ WARNING ⚠️

Be careful not to touch hot exhaust pipe while adjusting the shock absorber.



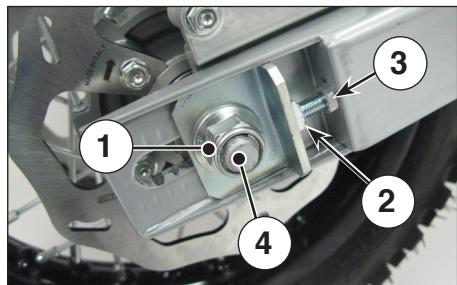
CHAIN ADJUSTMENT

Chain should be checked, adjusted and lubricated as per the "Maintenance Diagram" to ensure safety and prevent excessive wear. If the chain becomes badly worn or is poorly adjusted (i.e., if it is too loose or too taut), it could escape from sprocket or break.

Position minicross onto a stand, and insert a $0.08\div0.2$ in. dia. iron rod above upper chain guide. Adjust chain tension so as to allow iron rod slide without any forcing, and without the chain being too slack.

If it is not, proceed as follows:

- 1) Loosen hexagon nut (1).
- 2) Loosen check nuts (2) on both sides.
- 3) Turn screw (3), on both sides of rear swinging arm, to increase or decrease chain tension. Take care to centre wheel inside rear swinging arm.
- 4) Once the desired tension has been reached, lock rear wheel axle (4) with hexagon nut (1) to a tightening torque of 80 Nm ; 8 kgm ; 59 ft/lb , and lock screws (3) with check nuts (2).



Note *: While chain is tensioned to the max. level and iron rod used to check tension is inserted, you find that chain is still slack, have the chain changed by an authorised Husqvarna dealer.

LUBRICATING THE CHAIN

Lubricate the chain following these instructions.



WARNING

Never use grease to lubricate the chain. Grease helps to accumulate dust and mud, which act as abrasive and help to rapidly wear out the chain, the front and rear sprockets.

Washing the chain

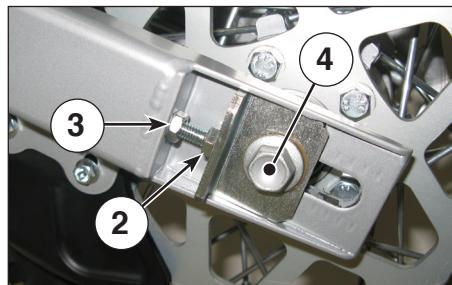
Wash with petroleum. If you use fuel or especially trichloroethylene, dry and lubricate the chain to avoid oxidation.

Lubricating the chain

Using a brush, lubricate in Molybdenum Disulphide chain lubricant or in warm high-viscosity engine oil (if warmed up, oil will be more fluid).



The chain lubricant shall NEVER get in contact with the tyres or the rear brake disc.



REMOVING THE FRONT WHEEL

Set a stand or a block under the engine and see that the front wheel is lifted from the ground.

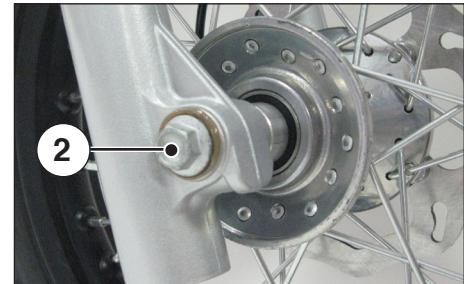
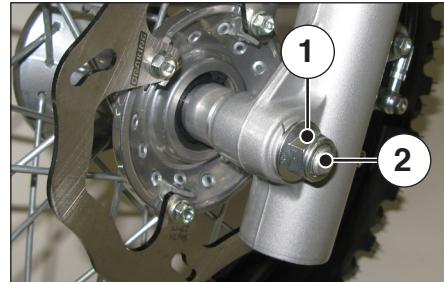
- 1) Loosen nut (1) on L.H. side;
- 2) Slide out axle (2) positioned on R.H. side, and remove wheel.

Note*:Do not operate the front brake lever when the wheel has been removed; this causes the calliper pistons to move outwards. After removal, lay down the wheel with brake disc on top.

REASSEMBLING THE FRONT WHEEL

- 1) Fit the wheel between the fork legs so as to set the brake disc into the calliper.
- 2) Fit the wheel axle (2) from the R.H. side, after greasing it and push it fully home against the L.H. fork leg; during this operation, the wheel should be turned.
- 3) Tighten nut (1) on fork L.H. side.

Note*:After reassembly, pull the brake control lever until the pads are against the brake disc.



DISASSEMBLING/REASSEMBLING REAR WHEEL

Set a stand or a block under the engine and see that the rear wheel is lifted from the ground.

- 1) Unscrew the nut (1) of the wheel axle (3) and extract it; It is not necessary to loosen the chain tensioners (2); in this way, the chain tension will remain unchanged after reassembly.
- 2) Extract the complete rear wheel, keeping the spacers located at the hub sides.
- 3) To reassemble, reverse the above procedure remembering to insert the brake disc into the calliper.

Note*:Do not operate the rear brake pedal when the wheel has been removed; this causes the calliper pistons to move outwards.



After removal, lay down the wheel with brake disc on top.

After reassembly, depress the brake pedal until the pads are against the brake disc.

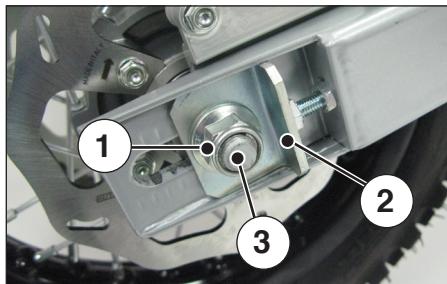
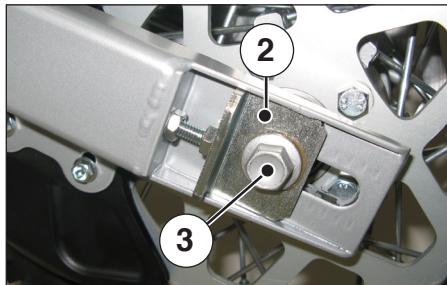
TYRES

Care should be taken to keep the tyres properly inflated. See "Technical data" chart at the beginning of the manual for correct tyre inflation pressure.

Replace the tyre if its wear exceeds reference values on the table below.

MINIMUM HEIGHT OF THE TREAD

FRONT	3 mm (0,12 in)
REAR	3 mm (0,12 in)



CHECKING TYRES PRESSURE

The type of tyre, its conditions and correct pressure are very important for a correct ride of your minicross.

- Tyres conditions shall be checked before using the minicross; check that no objects are knocked inside tyres, and that they are neither cut or torn off.
- Adjust pressure when tyres are cold. Optimal tyres pressure is specified in the "TECHNICAL DATA" paragraph.



riding the minicross with worn, flat or ruined tyres is very dangerous.

CHECKING SPOKES TENSION

Check wheel spokes tension at regular intervals. A correct tension allows wheel axial rotation.



Should you notice some loose spokes, do not use the vehicle and contact a Husqvarna service centre to fix them.

CHECKING STEERING BEARING CLEARANCE

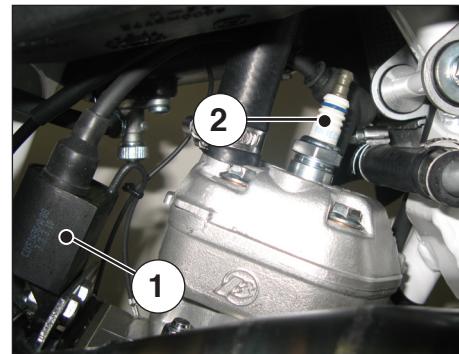
- Steering bearings shall always be adjusted for safety reasons so as to allow a free handlebar rotation without any clearance.;
- set a stand or a block under the engine and see that the front wheel is lifted from the ground;
- check that handlebar is free to rotate;
- stand in front of the minicross, grasp fork legs and move them in the direction shown in the figure; should some clearance be present, contact a Husqvarna dealer for the adjustment operations.



ELECTRICAL COMPONENTS LOCATION

The electrical system consists of:

- Electronic ignition coil (1) under fuel tank, close to carburettor;
- Spark plug (2) on cylinder head;



TROUBLESHOOTING

The following list is used for troubleshooting and to find the necessary remedies.

The engine does not start

- the starting procedures are not correctly followed: follow the instructions given on paragraph "Starting the engine"
- dirty spark plug: clean
- the spark plug does not spark: adjust the electrodes gap

The engine has starting troubles

- dirty or worn out spark plug: clean or replace

The engine starts, but it is erratic

- dirty or worn out spark plug: clean or replace
- faulty spark plug electrode gap: adjust;

The spark plug gets easily dirt:

- unfit spark plug: replace

The engine overheats

- the air flow on the radiators is blocked: clean

The engine lacks power

- dirty air filter: clean
- the spark plug electrode gap is too large: adjust;
- insufficient compression: check for the cause

The engine knocks

- excessive carbon deposit on the piston crown, or in the combustion chamber: clean

- faulty spark plug or wrong heat rating: replace

Faulty brakes

- worn-out pads: replace

APPENDIX

PROLONGED INACTIVITY

When the minicross is to be stored for a certain period, it should be prepared for storage as follows:

- Clean the whole minicross.
- Drain all fuel from the tank.
- Fill the tank with fuel added with a stabiliser.



Never release fuel into the environment or let the engine run indoors.

- Lubricate the final drive chain and all the cables.
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or brakes.
- Set the minicross on a support or stand so that both wheels are raised off the ground (if this cannot be done, put boards under the wheels to keep moisture away from the tyres).
- Tie a plastic bag over the exhaust pipe to prevent moisture from entering.
- Put a cover over the motorcycle to keep dust and dirt from collecting on it.

To set the motorcycle back ready for use after storage:

- Make sure the spark plug is tight.
- Fill the fuel tank.
- Run the engine to warm the oil up then drain the oil.
- Refill with fresh oil.
- Check all the points listed in the "Lubrication and Maintenance Table"
- Lubricate all the points listed in the "Lubrication and Maintenance Table"
- Check tyres pressure.



LUBRICATION AND MAINTENANCE TABLE

ENGINE	After the first 5 ours	Every 20 hours	Every 40 hours	Once a year	Before the competition
Transmission fluid level check	●	●			
Transmission fluid change	●	●			
Engagement speed check	●	●			●
Spark plug check and/or change, electrode gap adjustment		●			
Check of carburettor fixing onto intake manifold		●			
Check for the presence of cracks on intake manifold		●			
Idle speed adjustment (hot engine)		●			
Washers of washer valve check		●			
Clutch shoes wear		●			
Clutch drum wear check		●			
Water pump shaft and relevant bearing wear check		●			
Water pump impeller wear check		●			
Cylinder and piston wear check		●			
Axle shafts offset check		●			
Connecting rod big end bearing radial clearance check		●			
Connecting rod big end bearing radial clearance		●			

ENGINE	After the first 5 ours	Every 20 hours	Every 40 hours	Once a year	Before the competition
Connecting rod small end bearing radial clearance	•				
Main bearing check	•				
Crankshaft bearings and connecting rod big end bearing replacement			•		
Carburettor float chamber emptying and cleaning		•		•	



CHASSIS	After the first 5 ours	Every 20 hours	Once a year	Before the competition
Fork complete maintenance		•		
Swinging arm mount cleaning and greasing		•		
Steering bearing and seal cleaning and greasing		•		
Brake fluid change		•		
Brake fluid level, pad thickness, brake disc check		•		•
Brake hose condition check		•		•
Front lever and brake pedal operation check and adjustment	•	•		•
Braking system screw tightening check	•	•		•
Exhaust system check		•		
Control cable lubrication and smoothness check	•	•		•
Air filter and air box cleaning	•	•		•
Shock absorber and fork operation check		•		•
Swinging arm mount check		•		•
Steering bearing check and/or adjustment		•		•
Screw tightening check		•		•
Spoke tension and rim concentricity check	•	•		•

CHASSIS	After the first 5 ours	Every 20 hours	Once a year	Before the competition
Tyre pressure and conditions check		•		•
Chain, master link, front and rear sprocket wear check	•	•		•
Lubricating the chain	•	•		•
Wheel bearing clearance check	•	•		•



CHECK TABLE

CHECKS	Before every use	After every cleaning	After offroad use
Transmission fluid level check	•		
Coolant level check	•		
Brake fluid level check	•		
Brake seal wear check	•		
Brake operation check	•	•	
Control cable lubrication and adjustment		•	
Fork dust seal removal and cleaning			•
Chain cleaning, tensioning check and lubrication		•	•
Air filter and air box cleaning			•
Tyre pressure and wear check	•		
Fuel pipe condition check	•		



OPERAZIONI DI PRECONSEGNA

Descrizione	Operazione	Preconsegna	Descrizione	Operazione	Preconsegna
Olio motore	Controllo livello	<input type="checkbox"/>	Pneumatici	Controllo pressione	<input type="checkbox"/>
Olio miscela benzina	Controllo livello	<input type="checkbox"/> *	Cavalletto laterale	Controllo funzionalità	<input type="checkbox"/>
Liquido di raffreddamento	Controllo / Ripristino livello	<input type="checkbox"/>	Interrutt. cavall. laterale	Controllo funzionalità	<input type="checkbox"/>
Impianto raffreddamento	Controllo perdite	<input type="checkbox"/>	Impianto elettrico	Controllo funzionalità	<input type="checkbox"/>
Elettroventole	Controllo funzionamento	<input type="checkbox"/> **	Strumentazione	Controllo funzionalità	<input type="checkbox"/>
Candele	Controllo / Sostituzione	<input type="checkbox"/>	Luci / segnali visivi	Controllo funzionalità	<input type="checkbox"/>
Corpo farfallato / Carburatore	Controllo e Regolazione	<input type="checkbox"/>	Avvisatore acustico	Controllo funzionalità	<input type="checkbox"/>
Fluido freni e frizione	Controllo livello	<input type="checkbox"/>	Fanale anteriore	Controllo funzionalità	<input type="checkbox"/>
Freni / Frizione	Controllo funzionalità	<input type="checkbox"/>	Interruttore accensione	Controllo funzionalità	<input type="checkbox"/>
Freni / Frizione	Controllo circuito	<input type="checkbox"/>	Serrature	Controllo funzionalità	<input type="checkbox"/>
Comando acceleratore	Controllo funzionalità	<input type="checkbox"/>	Serraggio viti e dadi	Controllo / serraggio	<input type="checkbox"/>
Comando acceleratore	Verifica/regolazione gioco	<input type="checkbox"/>	Fascette stringitubo	Controllo / serraggio	<input type="checkbox"/>
Comando starter	Controllo funzionalità	<input type="checkbox"/>	Lubrificazione generale		<input type="checkbox"/>
Trasmissioni e com. fless.	Controllo / Regolazione	<input type="checkbox"/>	Collaudo generale		<input type="checkbox"/>
Catena di trasmissione	Controllo / Regolazione	<input type="checkbox"/>	Air filter	Soak in oil	<input type="checkbox"/>

* : presenti solo sui motocicli con motore a 2 tempi

** : presente solo su alcuni modelli

ALPHABETICAL INDEX

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Service booklet

Husqvarna



EN-37

DELIVERY CERTIFICATE

Date:

Frame no.:

Model:

Engine no.:

The motorcycle has been prepared for delivery by performing all of the checks and pre-delivery inspections as provided for by HUSQVARNA MOTORCYCLES S.R.L., and fitted with all the possible accessories requested by the Customer.

The Customer has been provided with this Warranty Booklet and the Use and Maintenance Manual and has received details about the main controls of the vehicle.

Dealer's stamp and signature

CUSTOMER

Name: _____

Surname: _____

Address: _____

Town or City: _____

Post Code: _____

Telephone no.: _____

I hereby declare that I have today accepted delivery of the motorcycle as described above, equipped and fully compliant with my expectations. I also declare that I have received this Warranty Booklet and Use and Maintenance Manual. I hereby authorise HUSQVARNA MOTORCYCLES S.R.L. to process my personal data for provision of After-Sales Service, pursuant to the Law 675/1996 and later amendments.

Customer's signature

HUSQVARNA MOTORCYCLES S.R.L. and its official sales organisation state that the personal details of the purchaser, in accordance with the Law 675/1996 and later amendments, may be processed without the Customer's consent, as part of the obligation to provide After-sales Service.

Copy for HUSQVARNA MOTORCYCLES S.R.L.



NOTICE OF TRANSFER OF OWNERSHIP

Date: Km/Mi:

Frame no.:

Model:

Engine no.:

I, the undersigned: _____

Name: _____

Surname: _____

Address: _____

Town or City: _____ Postal Code: _____

Telephone no: _____

Mail in a closed envelope to: **HUSQVARNA MOTORCYCLES S.R.L.- BMW Group**,
Servizio Assistenza Tecnica, Via Nino Bixio, 8 - 21024 Biandronno (VA) - Italy

HUSQVARNA MOTORCYCLES S.R.L. and its official sales organization state that the personal details of the purchaser, in accordance with the Law 675/1996 and later amendments, may take place without the Customer's consent, as implementation of obligations to provide Post-sales Service.

CUSTOMER

I inform HUSQVARNA MOTORCYCLES S.R.L. that today I have transferred the property of the vehicle to Mr. EN

Name: _____

Surname: _____

Address: _____

Town or City: _____

Postal Code: _____

Telephone no: _____

and I have handed over to him this Warranty Handbook and the Use and Maintenance Manual supplied with the bike.

Copy for **HUSQVARNA MOTORCYCLES S.R.L.**



Space reserved for storing fiscal documents proving that scheduled maintenance services have been carried out.

SERVICE	<input type="text"/>	DATE	<input type="text"/>	Km/MI	<input type="text"/>	Customer's signature	<input type="text"/>	Dealer's Stamp	<input type="text"/>
SERVICE	<input type="text"/>	DATE	<input type="text"/>	Km/MI	<input type="text"/>	Customer's signature	<input type="text"/>	Dealer's Stamp	<input type="text"/>
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SERVICE	<input type="text"/>	DATE	<input type="text"/>	Km/MI	<input type="text"/>	Customer's signature	<input type="text"/>	Dealer's Stamp	<input type="text"/>

PIN or staple the Fiscal Receipt or the Fiscal Ticket proving the warranty services do have been performed.



