### Brush Cutters, Trimmers, Pruners, Pruning saws, Hedge trimmers, Ice drills, Blowers

### **Workshop Manual**

101 90 75-26

### Supplement to the workshop manual for brush cutters, trimmers pruners, pruning saws, hedge trimmers, ice drills, blowers 1999

### Contents

General recommendations	2
1. Starter	3
2. Ignition system	11
3. Fuel system	19
4. Centrifugal clutch	37
5. Angle gear	45
6. Cylinder and piston	51
7. Crankshaft and crankcase	63
8. Hydraulic unit	75
9. Attachments	79
10. Tools	91

The supplement includes new products and modifications to products after the Workshop Manual was printed in March 1997. For complete information when servicing we recommend that the supplement is studied together with the Workshop Manual. (Order number 101 90 74-26)



### **General recommendations**

The workshop used to carry out repairs must be equipped with safety devices in accordance with local directives.

No one may carry out repairs without first having read and understood the contents of this Workshop Manual.

The boxes below can be found in appropriate parts of this manual.

#### WARNING!

The warning box warns of the risk for personal injury if the instructions are not followed.

#### NOTE!

This box warns of damage to material if the instructions are not followed.

The machine is type approved for safety in accordance with applicable legislative demands with the equipment specified in the Operator's Manual. The assembly of other equipment or accessories or spare parts not approved by Husqvarna can result in the failure to meet these safety demands and that the person carrying out assembly bears responsibility for this.

#### Bear in mind:

- Do not start the engine without the clutch drum and shaft fitted. Otherwise there is a risk that the clutch can become loose and cause personal injury.
- Do not touch hot components, e.g. the muffler and clutch before they have cooled sufficiently to avoid burns.
- Avoid getting fuel or oil on your skin or in your mouth. Use barrier cream on your hands. This reduces the risk of infection and makes dirt easier to wash off. Long term contact with engine oil can represent a health hazard.
- Never start the engine indoors. Exhaust fumes are poisonous!
- Wipe up oil spills from the floor immediately to avoid slipping.
- Do not use tools that are worn or fit badly, for example on nuts and screws.
- Always work on a clean bench.
- Always work logically to ensure all parts are fitted correctly and that nuts and screws are tightened.
- Use the special tools where recommended in order to carry out the work correctly and efficiently.

#### **Fire risk**

Handle fuel with respect, as it is extremely inflammable.

Do not smoke and ensure there are no open flames or sparks in the vicinity.

Make sure there is a working fire extinguisher close at hand. Do not try to extinguish a petrol fire with water.

#### **Poisonous fumes**

When using cleaning agents read the instructions carefully.

Ensure there is good ventilation when handling petrol and other volatile fluids.

The engine's exhaust fumes are poisonous. Test run the engine outdoors.

#### **Special tools**

Some of the work described in the Workshop Manual requires special tools. In each section where this is necessary there is a picture of the tool and an order number.

We recommend the use of special tools in order to avoid personal injury and to eliminate expensive damage to the parts in question.



#### Contact faces and gaskets

Ensure all surfaces are clean and free from gasket residue. When cleaning use a tool that will not damage the contact face. Any scratches or unevenness should be removed using a flat fine cut file.

#### Sealing rings

Always replace a sealing ring that has been dismantled. The sensitive sealing lip can easily be damaged resulting in inferior sealing capacity. Surfaces that the seal shall seal against must also be completely undamaged. Lubricate the sealing lip with grease before it is fitted and ensure that it is not damaged e.g. by shoulders and splines on a shaft. Use tape or a conical sleeve as protection. It is important that the sealing ring faces in the right direction for it to act as it is intended.

### **Starter**



### Contents

Model 18H         Dismantling	Models 322, 325	
Models 32, Mondo, Mondo Mega         Dismantling, assembling         Model 18H         Dismantling         Assembly         Models 140B, 141B         Dismantling, assembling         Assembly         General	Dismantling, assembling	4
Dismantling, assembling Model 18H Dismantling Assembly Models 140B, 141B Dismantling, assembling Assembly General	Replacing the drive dogs	5
Model 18H         Dismantling	Models 32, Mondo, Mondo Mega	
Dismantling General	Dismantling, assembling	
Assembly Assembly Assembly Assembling Assembling Assembly Assembl	Model 18H	
Models 140B, 141B Dismantling, assembling Assembly General	Dismantling	6
Dismantling, assembling	Assembly	7
Assembly General	Models 140B, 141B	
General	Dismantling, assembling	
	Assembly	
Replacing the drive dogs 10	General	g
	Replacing the drive dogs	10



#### Models 322, 325 Dismantling

Remove the 3 screws and lift off the starter.

#### NOTE!

Ensure the bushings (A) that guide the starter towards the fuel tank are not lost.

Offload the spring tension.

Remove the screw from the centre of the starter pulley and lift off the starter pulley.

Clean the component parts and assemble

in the reverse order as set out for disman-

Offload the spring tension in the same way as described for model 265.

Remove the screw in the centre of the starter pulley. Carefully lift out the starter pulley from the starter housing.





#### Assembly

Clean component parts before assembling.

Replace the return spring/starter pulley and starter cord, if necessary.

#### NOTE!

The return spring and starter pulley are supplied pre-assembled and are fitted in the starter housing as a single unit. Exercise care when opening the packaging so that the spring does not fly out.

Lubricate the spindle with a little grease and fit the starter pulley.

Position the washer and tighten the screw.

Assemble a new starter cord. Slide it into the starter pulley's slot as illustrated and then out through the cord guide in the starter housing.

Make sure the knot on the end of the cord is as small as possible!





Assemble the starter pulley. Assemble a new starter cord.

#### NOTE!

A new starter cord can be fitted without the need of dismantling the starter!

Assembly

tling.





Models 32, Mondo, Mondo Mega Dismantling

Disconnect the electrical cables. Remove the shaft complete with handle.

Dismantle the starter.

Assembly

### Models 32, Mondo, Mondo Mega Dismantling

Disconnect the electrical cables by the engine body and remove the 4 screws (models Mondo and Mondo Mega have 3 screws) that hold the shaft and handle on the starter housing. Lift off the shaft.

Remove the 4 screws and lift off the starter.

Model 32 Pull out the electrical cables from the starter housing using flat nose pliers.

Model Mondo Also dismantle the screw by the spark plug.



### Model 18H Dismantling

Dismantle the air filter, throttle cable and carburettor.

Remove the 4 screws holding the engine body and gear housing.

#### Assembly

Assemble the starter handle in the same way as described for model 265. Tie a double knot, as the cord is lighter than on model 265.

#### Model 18H Dismantling

The starter is positioned between the crankcase and the cutting equipment drive.

First dismantle the spark plug, air filter, throttle cable and carburettor.

Turn the trimmer upside down so that the screws holding the engine body are accessible.

Remove the 4 screws.

Assemble the starter handle.



Dismantle the centrifugal clutch.



Dismantle the starter from the engine.

Assemble the piston stop no. 504 91 06-05 in the cylinder.

Unscrew the centrifugal clutch. First loosen it using a hammer and punch, **anticlockwise.** 

Dismantle the starter.

Remove the 5 screws holding the starter housing

Lubricate the ignition cable with a few drops of oil and remove the rubber grommet in the cover.

Lift off the starter housing.



The following procedures are the same as for models 32, Mondo: Remove the locking plates holding the starter pulley axially. Offload the spring tension.

Dismantle the starter pulley and spring cassette from the starter housing.



#### Assembly (also see model Mondo)

Place a new spring cassette in position in the starter housing. Replace the cord and attach as illustrated. Assemble the starter pulley. Assemble the starter handle (see model 265). Tension the return spring. Repeat tensioning the spring and fit the locking plates.



### Models 140B, 141B Dismantling

ing.

Assembly

housing.

Remove the screws and lift off the starter.

Models 140B, 141B Dismantling

Remove the 4 screws holding the starter against the engine body.

Offload the spring tension and remove the starter pulley from the starter hous-

Lift the starter cord out of the cut-out in the starter pulley.

Offload the spring tension by allowing the starter pulley to rotate backwards. Stop the pulley using your thumb.

Remove the screw and washer from the centre of the starter pulley.



Lift off the starter pulley. Dismantle the return spring. Clean and replace any damaged parts.

Fit a new return spring in the starter

Carefully lift off the starter pulley and return spring.





The return spring lies tensioned in the starter housing and can fly out and cause personal injury with careless handling.

Clean and replace any damaged parts.

#### Assembly

Fit a new return spring in the starter housing. Exercise great care so that it does not fly out.



WARNING! **Use protective** glasses.

Check that the spring's mounting is facing the right way!







#### Assembly, general

Assemble the starter in the reverse order as set out for dismantling.



### Replacing the drive dogs

See chapter 2. "Ignition system, flywheel" with regard to engines that have the drive dogs fitted on the flywheel.

### Assembly, general

Assemble the starter

Pull out the starter cord a little. Place the starter in position. Release the starter cord and check that the drive dogs engage in the starter pulley.

Tighten the screws.

#### NOTE!

We recommend the use of an over dimensioned screw if the plastic threads in the crankcase have been damaged for some reason. (no. 503 21 22-01).

### Replacing the drive dogs.

See chapter 2. "Ignition system, flywheel" with regard to engines that have the drive dogs fitted on the flywheel.

### **Ignition system**





### Contents

# Dismantling 12 Models 322, 325, 18H 12 Models 140B, 141B 13 Dismantling the flywheel 15 Assembly 15

5	
Models 322, 325	16
Technical data	. 18

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 2 Ignition system



Dismantling Models 322, 325

Dismantle the cylinder cover, guard over the muffler and spark plug.

Unhook the throttle cable from the carburettor and remove the screws holding the clutch cover.

### Dismantling

Models 322, 325

The following components must be dismantled for the ignition system to be accessible.

Cylinder cover, guard over the muffler and spark plug.

Remove the clutch cover and loosen the short-circuit cable from the ignition module.

Disconnect the throttle cable from the carburettor.

Remove the three screws holding the clutch cover.

Remove the clutch cover complete with the shaft from the engine.

Loosen both ends of the short-circuit cable from the ignition module.





Dismantle the ignition module and the



Model 18H

Remove the spacer and washer and screw the clutch down on the crankshaft.

Hold the flywheel and sharply tap the clutch a few times until the flywheel releases.

Remove the remaining screw (A) holding the ignition module and both screws (B) that hold the centrifugal clutch. Lift off the clutch and ignition module.

#### Model 18H

Remove the long spacer and washer from the crankshaft.

Screw down the clutch a few turns on the shaft.

Hold the flywheel and sharply tap the clutch a few times until the flywheel releases.

504 90 00-02 centrifugal clutch.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 Ignition system 2



### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Ignition system**



#### Remove the blower pipe.

Loosen the hose clip and remove the blower pipe.



Dismantle the cylinder cover, heat guard around the cylinder and the rotary valve from the carburettor. Lift off the spark plug cap and unscrew the spark plug.

Remove the 3 screws (A) holding the cylinder cover and remove this and the heat guard from around the cylinder.

Dismantle the rotary valve (B) from the carburettor by removing the 2 screws holding the cover. Let the throttle hang from the throttle cable.



Dismantle the harness.

502 50 22-01

Remove the harness from the tubular frame by removing both screws (A).



Remove the pipe bend.

Remove all screws and separate both halves of the fan housing.

Remove the pipe bend.

Remove the cleaning cover and all the screws (12) holding both halves of the fan housing.

Separate the halves.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Ignition system**





Dismantle the impeller



Dismantle the engine from the fan housing.



module.

Screw in the piston stop no. 504 91 06-5 in the spark plug hole and remove the 3 screws holding the impeller using tool no. 502 50 23-01.



Remove the 4 screws holding the engine against the fan housing. Lift off the engine.





Remove the screws and lift off the ignition



### **Dismantling the** flywheel

Fit the piston stop no. 504 91 06-05 and remove the nut holding the flywheel and where appropriate the plate with drive dogs.



Remove the screws and lift off the ignition module with the ignition lead, short-circuit cable and grommet.

### **Dismantling the** flywheel

Assemble the piston stop no. 504 91 06-05 in the spark plug hole.

Ensure the piston stop is screwed down to the bottom.

Remove the nut holding the flywheel and where appropriate the plate with drive dogs.

### NOTE!

The piston stop cannot be used on model 122.

## For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **2** Ignition system





Dismantle the flywheel by using the flywheel puller.



Dismantle the flywheel by using the bearing puller.







Dismantle the flywheel by using a hammer and push bar.



Assembly Models 322, 325 Assemble the centrifugal clutch.

#### NOTE!

Do not forget the washers between the flywheel and centrifugal clutch.

Dismantle the flywheel from the crankcase using the puller no. 502 51 49-01.

Gently knock the puller screw with a hammer, if the flywheel sits tightly on the crankshaft.

Select a suitable screwdriver and align the puller so that it does not pull at an angle.

Pull off the flywheel by using the bearing puller no. 504 90 90-01.

#### NOTE!

The puller arms should be placed by and opposite the magnet on the flywheel to avoid damaging it.

Is the flywheel extremely tight?

Lift up the engine body by holding the puller and then hit the puller screw a few times with a hammer.

Screw the nut on to the axle to protect the threads.

Snap off the springs and move the drive dogs to make space for the hammer.

Hold the flywheel and lift up the engine body.

Use a hammer to hit the flywheel nut sharply a few times until the flywheel becomes loose on the axle.

#### Tip!

Use the push bar to protect the threads on the axle and at the same time as it will be easier to use the hammer.

Do not screw the push bar against the flywheel – leave approx. 2 mm.

### Assembly

Models 322, 325

If the crankshaft has two keyways, the flywheel should be fitted in the right-hand keyway seen from the axle end.

Assemble the centrifugal clutch.

#### NOTE!

Do not forget the washers between the flywheel and centrifugal clutch.

### **Ignition system**

Assemble the ignition module and adjust the air gap to 0.3 mm.



Assemble the ignition module.

Wait to connect the short-circuit cable to facilitate the adjustment of the air gap. It should be 0.3 mm between the permanent magnets in the flywheel and the ignition module.

2

Now fit the short-circuit cable and the remaining parts in the reverse order as set out for dismantling.

#### NOTE!

Do not forget the rubber bushings between the clutch cover and the fuel tank.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **2 Ignition system**

### **Technical data**

Model	Model Spark plug		Ignition system	Air gap mm/inch	
Mondo	Champion RCJ8Y NGK BPM 6A	0.5/0.02	Phelon CD	0.3/0.012	
122L	NGK BPM 6Y	0.6/0.024	Ikeda Denso Solid State	0.3/0.012	
Mondo Max	Champion RCJ 8Y	0.5/0.02	Phelon CD	0.3/0.012	
225L/LD	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
232L	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
Mondo Mega	Champion RCJ 8Y	0.5/0.02	Phelon CD	0.3/0.012	
225R/RD	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
232R	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
322	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
325	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
235R	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
240R	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
245R	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
250R	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
245RX	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
250RX	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
252RX	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
265RX	Champion RCJ 7Y	0.5/0.02	SEM GA6 CD	0.3/0.012	
240RBD	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
235P	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
250PS	Champion RCJ 7Y	0.5/0.02	Electrolux ET	0.3/0.012	
225E	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.12	
18H	Champion RCJ 8Y	0.5/0.02	Phelon Solid State	0.3/0.012	
225H60/75	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	
140B, 141B	NGK BPM 7A	0.6–0.7/ 0.024–0.028	Kawasaki Transistor	0.4/0.016	
132HBV	Champion CJ 8Y	0.6/0.024	Phelon CD	0.25–0.35/ 0.010–0.014	
225BV/225HBV	Champion RCJ 7Y	0.5/0.02	Walbro CD	0.3/0.012	

### **Fuel system**



### Contents

Air filter	20
Tank venting	
Primer pump	20
Carburettor	20
Assembly	25
Carburettor settings	26
CARB-designed carburettor	28
Throttle cable	31
Throttle	33
Technical data	36

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**





### Air filter

Remove the air filter cover and lift out the air filter for cleaning.

### Tank venting Model 141B

The tank ventilation is integrated in the fuel cap's gasket Blow through the flat hose to check that it is open.

#### Air filter Model 141B

Press down the catch on the cover over the air filter housing and remove the cover and the air filter for cleaning.

Clean the filter in the same way as described above.

Fit the filter with the smooth side facing in towards the carburettor.

Ensure the support grille (A) is in position.

#### Tank venting Model 141B

The tank ventilation is integrated in the fuel cap's gasket and can easily be dismantled for replacement.

Pull off the flat hose from the pin on the rubber washer and blow through the hose to check that it is not blocked. Check that the hole (A) is open.



#### Primer pump Models 322, 325, Mondo, 18H

Carburettor

Models 322, 325

Dismantle the carburettor.

carburettor.

The primer pump facilitates cold starts. The pump cannot be repaired and must be replaced if it stops working. Note how the fuel hoses are connected to

simplify assembly.

Disconnect the throttle cable from the

#### Primer pump Models 322, 325, Mondo, 18H

The primer pump has the task of facilitating the start of the engine when cold. The pump fills the carburettor with fuel before attempting to start the engine. This also prevents vapour bubbles from blocking the narrow fuel channels.

If the pump does not work it must be replaced.

Note how the fuel hoses are connected to simplify assembly.

### Carburettor Models 322, 325

- 1. Disconnect the throttle cable from the lever arm on the carburettor.
- 2. Loosen the carburettor screws.
- 3. Remove the screws holding the air filter holder.



### **Fuel system**

Lift off the carburettor and note how the fuel hoses are connected.

Lift off the carburettor and note how the fuel hoses are connected.

Disconnect the throttle cable from the

Remove the screw (B) and unhook the throttle cable from the lever arm on the

Loosen the carburettor screws and lift out the air filter holder and carburettor.

Remove the fuel hoses from the carburet-



Model 18H Disconnect the throttle cable from the carburettor.

Dismantle the carburettor from the cylinder.

**Model 141B** Dismantle the cover together with the rotary valve and cable bracket. Model 141B

tor.

Model 18H

carburettor.

carburettor (A).

Loosen both screws (A) and lift off the cover together with the rotary valve and cable bracket.

Let the parts remain hanging from the throttle cable if they are not damaged and do not need to be replaced.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**



Remove the screws and lift out both dis- tance pieces. Inspect the fibre distance piece with re- gard to crack formation. Replace the distance piece if necessary.	Remove the screws (A), the fibre dis- tance piece (B) and the aluminium dis- tance piece (C). Inspect the fibre distance piece with re- gard to crack formation. Replace the dis- tance piece if necessary.
Pull off the fuel hoses and lift out the carburettor.	Lift out the carburettor and note how both fuel hoses are connected to the carburet- tor (rubber hose on the straight nipple).
Assembling the carburettor - Zama	Assembling the carburettor - Zama
Design, function and servicing correspond with the Walbro carburettor.	Zama has the same design and function as the Walbro carburettor, which means



Remove the air filter support (A) and both screws (B) that hold the carburettor on

Lift off the air filter holder and carburettor

the cylinder.

from the cylinder.

The lever arm should lie flush with the carburettor housing's contact face.



### **Fuel system**

	Dismantling, assembling Model 18H	Dismantling, assembling Model 18H
	The carburettor is made by Zama. Dismantle the primer pump's bellows and cover over the control diaphragm.	The carburettor is made by Zama. It has the same principle design as the Tillotson and Walbro carburettors. Dismantle the primer pump's bellows and then the cover over the control diaphragm. Inspect the control diaphragm and nee- dle valve in the same way as previously described.
	Dismatle te pump diaphragm and the fuel screen.	Remove the screws holding the cover over the pump diaphragm. Lift off the cover, pump diaphragm and gasket. Check the diaphragm (1) as described in the workshop manual. Carefully remove the fuel screen (2) us- ing, e.g. a needle.
L L L L L L L L L L L L L L L L L L L	Unscrew the jet needles.	Unscrew the jet needles. The plastic sleeves must first be removed using a screwdriver on carburettors with movement limiters. NOTE! Note how the needles are positioned. (For example, the H-needle is a little shorter than the L-needle).
	Press out the main jet for possible re- placement using a suitable punch.	The main jet can be pressed out for possible replacement using a suitable punch. NOTE! When the new jet is fitted it must not be pressed in further than so that the edge (1) on the jet lies flush with the carburettor housing.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**



Assemble the carburettor and pressure test it.

Wait to fit the movement limiters on the jet needles.

Dismantling, assembling

Remove the screws and lift off cover with

Model 141B

the pump bellows.

Assemble the carburettor in the reverse order as set out for dismantling.

The needle valve lever arm should be adjusted to a level flush with the carburettor housing's contact face.

NOTE! The control diaphragm and pump diaphragm should lie closest to the carburettor housing!

Wait to fit the movement limiters on the jet needles.

#### Dismantling, assembling Model 141B

This carburettor has a rotary valve instead of a throttle valve.

Remove the 4 screws and lift off cover with the pump bellows.



Lift off the cover above the control diaphragm and carefully remove the nonreturn valve. Check that it opens and closes.

Continue to dismantle and assemble the carburettor in the same way as described for model 122.

Lift off the cover over the control diaphragm.

Carefully remove the non-return valve and check that it opens and closes by pressing together the valve's short sides with you thumb nail.

Hold the valve against a light to make it easier to see whether it closes fully.

Continue to dismantle and assemble the carburettor in the same way as described for model 122.



### **Fuel system**





Model 18H Connect the fuel hoses.



Connect the throttle cable. Tighten the air filter holder. Clean or replace the air filter.

### Assembly

### Models 322, 325

1. First assemble the fuel hoses on the carburettor.

#### NOTE!

The hose, with the fuel filter in the tank, should be fitted on the carburettor's inlet side (pump chamber).

- 2. Keep the air filter holder (1) in position on the carburettor.
- 3. Slide in the carburettor screws (2).
- Position the gasket (3) and screw together the entire carburettor assembly against the distance piece (4). Tighten the carburettor screws crosswise.

#### NOTE!

Do not forget the screw (5) that holds the air filter holder against the distance piece.

5. Connect the throttle cable to the lever arm on the carburettor.

Make sure the cable enters the correct slot in the clutch cover and in the guide on the air filter holder (6).

Assemble the remaining parts in the reverse order as set out for dismantling.

#### Model 18H

Connect the fuel hoses on the carburettor.

The thin hose (A) is connected to the nipple on the carburettor body (pump diaphragm).

Connect the throttle cable (A) to the throttle valve's lever arm.

Secure the cable guide (B) on the distance piece.

Tighten the air filter holder.

Do not forget the gasket between the carburettor and the distance piece!

Clean or replace the air filter before assembly.

Clean in tepid soapy water. Fit the air filter cover.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 3 **Fuel system**





#### Model 141B

Fit the distance piece on the cylinder.

#### Model 141B

Pay special attention that the distance pieces and gaskets face the right way and do not block the impulse channel when fitted on the cylinder.

Secure the distance piece closest to the carburettor with a little grease. This facilitates carburettor assembly.

Turn the carburettor so that the recessed sealing ring (A) comes against the air filter holder.

Tighten the carburettor and air filter holder against the cylinder.

Slide down the rotary valve in the carburettor and screw on the cover.

Check that the throttle works.

Turn the carburettor so that the recessed sealing ring (A) comes against the air filter holder.

Place the carburettor screws in the air filter holder (do not forget the choke valve) and then slide the carburettor on the screws.

Tighten the carburettor against the cylinder.

Slide down the rotary valve in the carburettor housing. Tighten the cover and check that the throttle is turned easily when accelerating and that it rests against the idling screw when the throttle is released.









WARNING! The clutch and clutch cover must be fitted under all circumstances when testing the engine in connection with carburettor adjustment. Otherwise there is a risk of the clutch becoming loose resulting in serious personal injury.

#### Function

The carburettor has the task of supplying a combustible fuel/air mixture to the cylinder. The amount of this mixture is controlled by the throttle.

The mixture's composition of fuel and air is controlled by means of the adjustable needles "H" and "L".

The needles must be correctly adjusted in order for the engine to give maximum power at different speeds, run steadily while idling and to react quickly when accelerating.

The setting of the carburettor can vary a little depending on the humidity, temperature and air pressure.

- L = Low speed needle
- H = High speed needle
- T = Adjuster screw for idling

The fuel quantity in relation to the air flow permitted by the throttle opening is adjusted by the L and H-needles. Turning the needles clockwise gives a leaner fuel mixture (less fuel) and turning them anticlockwise gives a richer fuel mixture (more fuel). A leaner mixture gives higher revs while a richer mixture gives less revs.

The T-screw regulates the position of the throttle while the engine is idling. Turning the screw clockwise gives a higher idling speed while turning it anticlockwise gives a lower idling speed.

### **Fuel system**



#### Basic setting

The carburettor is set to its basic setting when test run at the factory. The basic setting is "richer" than the optimal setting (the max speed is 600–800 rpm under the recommended max. speed) and should be kept during the engine's first working hours. Thereafter the carburettor should be finely adjusted. The basic setting can vary between:

H = 1 to 1 1/4 turns (model 235 P: 3/4 – 1 turn, Mondo + Mega + Max, 18 H: 2 turns, 322, 325: 2 1/2 turns)

L = 1 to 1 1/4 turns (model 235 P: 3/4 – 1 turn, Mondo + Mega + Max, 18H: 2 turns)

#### Basic setting model 235 P

The pruner's engine can not be revved to the max speed as the cutting head's blades go against the stop and the engine slows. Consequently, the engine revs at max under load. The high speed needle H should not be changed from the basic settings (3/4 - 1 turn open). If the muffler smokes heavily, at the same time as the engine 4 strokes a,great deal the setting is too rich. Turn the H-needle clockwise until you find the setting that sounds right.

#### Fine adjustment

Fine adjustment of the carburettor should be carried out after the engine has been "run-in".

• The air filter should be clean and the cylinder cover fitted when adjustments are made.

First adjust the L-needle, then the H-needle and finally the idling speed's T-screw.

The following speed recommendations apply:

Idling speed = 2,500 rpm.

#### Max. speed

Model	During running in	After running in
265	10,900	11,500
252, 250 RX	(R) 12,900 (11,900)	13,500 (12,500)
240	11,900	12,500
245	11,900	12,500
225	10,500	11,000
232	10,300	10,800
235	10,500	11,000
240 RBD	10,500	11,000
322, 325	12,500	12,500
122		10,800
32		7,000
Mondo		9,000
Mega / Max		9,000
250PS		
235 P	—	—
225 H60 / H7	5 10,500	11,000
18H	9,500	10,000
132HBV	7,100	7,600
140B, 141B		
225HBV	7,700	8,200

#### NOTE!

The max. recommended speed must not be exceeded. When checking the speed on a trimmer no part of the cord should be extended.

Check the speed using the tachometer 502 71 14-01.



 Carefully screw in (clockwise) the L and H-needles until they bottom. Now screw out (anticlockwise) the needles 1 turns. The carburettor now has the setting H
 1 and L = 1. Use the special screwdriver 501 60 02-02. • Start the engine and run warm for 10 minutes.

#### NOTE!

If the cutting equipment rotates while idling the T-screw should be turned anticlockwise until it stops.

#### Low speed needle L

Find the highest idling speed by slowly turning the low speed needle clockwise and anticlockwise. When the highest speed has been found, turn the L-needle 1/4 turn anticlockwise.

#### High speed needle H

The high speed needle H affects the engine's power and speed. A too lean H-needle setting (H-needle screwed in too far) gives too little fuel to the engine resulting in damage to the engine.

Run the engine at full throttle for about 10 seconds. The H-needle is set correctly when the engine "splatters" a little.

If the muffler smokes heavily, at the same time as the engine splatters a great deal the setting is too rich. Turn the H-needle clockwise until you find the setting that sounds right.

#### NOTE!

A tachometer should always be used to find the optimal setting.

The recommended max. speed must not be exceeded.

#### Idling speed T-screw

Let the engine idle for about 30 seconds or until the speed has stabilised. Adjust the idling speed T-screw until the engine idles without stopping.

- Turn the screw clockwise if the engine stops.
- Turn the speed anticlockwise to lower the speed.

#### Correctly adjusted carburettor

A correctly adjusted carburettor means that the engine accelerates without hesitation and it 4 strokes a little at full throttle.

- A too lean adjusted L-needle can cause starting difficulties and bad acceleration.
- A too lean adjusted H-needle results in lower power, bad acceleration and/or damage to the engine.
- A too rich setting of the "L" and "H" needles give acceleration problems or a too low working speed.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**



### Carburettors in E-TECH and CARB-EPA designs (CARB-EPA only applies to USA)

On these types of carburettor the H and L-needles can be adjusted within extremely tight limits, to among others, comply with the stringent demands with regard to the hydrocarbon and nitrogen oxide content in the exhaust fumes.

The carburettor needles on these carburettors are fitted with plastic sleeves with movement limiters

To carry out adjustment when replacing needles or the entire carburettor the engine must be under load. This is achieved by fitting a Trimmy Fix with the specified length and diameter of trimmer cord. Consequently, the stated speed will be much lower than with "normal" carburettor adjustment when the motor may run freely.

After replacing the needles or the entire carburettor on a CARB-EPA approved engine, adjustment must be carried out according to the instructions below.

The combiguard or trim guard must be fitted when adjusting the H-needle.

### After replacing the complete carburettor

1. Check that the plastic sleeve on the H-needle is turned as far as possible anticlockwise (richest fuel mixture). The sleeve sits freely on the needle and can be turned without affecting the needle's setting.

Do not change the L-needle setting. This is adjusted at the factory and the plastic sleeve is already fixed on the needle.

2. Fit four trimmer cords  $\emptyset$  3.3 mm on a Trimmy Fix.

(Trimmy Fix M10, 531 00 38-69 for models 225, 232, 322L, 322R, 325L, 325L-X, 325R-X. Trimmy Fix M12, 502 13 87-02 for model 235).

Maybe the hole needs to be enlarged a little to make fitting the trimmer cords easier.

(Does not apply to models 225H60/H75 and 18H).

3. Cut the trimmer cord to the right length (measure the length to the edge of the Trimmy Fix).

Model 225: 145 mm Model 232: 155 mm Model 235: 170 mm Models 3221 /B 3251 /I

Models 322L/R, 325L/L-X/R-X: 142 mm

Fit the Trimmy Fix on the machine.

Model 322C must be run with Trimmy Hit VI and its standard cord ( $\emptyset$  2.0 mm). Cut off the cord ends so that they are 146 mm long.

(Does not apply to models 225H60/H75 and 18H).

#### NOTE!

The spray guard must be removed from model 235. Exercise care when the trimmer cord is rotating.

- 4. Start the engine. Adjust the idling speed T-screw if necessary.
- 5. Use screwdriver 531 00 48-63 to adjust the H-needle. The blade is 2 mm wide and goes through the plastic sleeve and only adjusts the needle.

Adjust the H-needle so that the max. speed 8400  $\pm$  200 rpm is set.

Use the tachometer 502 71 14-01 to check the speed.

(Does not apply to models 225H60/H75 and 18H).



- 6. Run the engine warm for 2-3 minutes.
- 7. Check that the max speed is still 8400  $\pm$  200 rpm. Adjust the H-needle if necessary.
- 8. Check that the plastic sleeve on the H-needle is turned as far as possible anticlockwise (richest fuel mixture).
- 9. Press in the plastic sleeve using a punch (Ø 5 mm).

The basic setting of the carburettor is now complete. Further fine adjustment, within the limits that the plastic sleeves on the needles permit, can be necessary.

#### Departures for models 225H60/H75, 18H

- 5A. Adjust the H-needle until the max speed is reached.
  - Then turn the needle anticlockwise until the speed drops by 500 rpm.
- 6A. Run the engine warm at full throttle for 2-3 min.
- 7A. Check the idling speed and that the engine reacts quickly when accelerating.
- 7B. Adjust the H-needle until the max speed is reached. Then turn the needle anticlockwise until the speed drops by 500 rpm.

### After replacing only the H-needle

- 1. Turn the L-needle as far as possible anticlockwise (richest fuel mixture).
- 2. Remove the plastic sleeve on the H-needle and unscrew the needle.
- 3. Carefully screw the new H-needle to the bottom and then loosen it a 1/2 turn. On models 322/325 the needle should be loosened approx.2 1/2 turns.
- 4. Press a new plastic sleeve on the H-needle down to the first stop. The sleeve can now be turned without turning the needle.
- 5. Turn the plastic sleeve as far as possible anticlockwise (richest fuel mixture) without turning the needle.
- Fit four trimmer cords Ø 3.3 mm on a Trimmy Fix. (Trimmy Fix M10, 531 00 38-69 for models 225, 232, 322L, 322R, 325L, 325L-X, 325R-X. Trimmy Fix M12, 502 13 87-02 for model 235).

Maybe the hole needs to be enlarged a little to make fitting the trimmer cords easier.

(Does not apply to models 225H60/H75).

- 7. Cut the trimmer cord to the right length (measure the length to the edge of the Trimmy Fix).
  - Mod. 225: 145 mm Mod. 232: 155 mm

Mod. 235: 170 mm Mod. 322L/R, 325L/L-X/R-X: 142 mm Fit the Trimmy Fix on the machine.

Model 322C must be run with Trimmy Hit VI and its standard cord ( $\emptyset$  2.0 mm). Cut off the cord ends so that they are 146 mm long. (Does not apply to models 225H60/H75 and 18H).

### **Fuel system**

The spray guard must be removed from model 235. Exercise care when the trimmer cord is rotating.

- 8. Start the engine. Adjust the idling speed T-screw if necessary.
- 9. Use screwdriver 531 00 48-63 to adjust the H-needle. The blade is 2 mm wide and goes through the plastic sleeve and only adjusts the needle.

Adjust the H-needle so that the max. speed 8400  $\pm$  200 rpm is set.

Use the tachometer 502 71 14-01 to check the speed.

(Does not apply to models 225H60/H75 and 18H).

10. Run the engine warm for 2-3 minutes.



- 11. Check that the max speed is still 8400  $\pm$  200 rpm. Adjust the H-needle if necessary.
- 12. Check that the plastic sleeve on the H-needle is turned as far as possible anticlockwise (richest fuel mixture).
- 13. Press in the plastic sleeve using a punch (Ø 5 mm).

The basic setting of the carburettor is now complete. Further fine adjustment, within the limits that the plastic sleeves on the needles permit, can be necessary.

#### Departures for models 225H60/H75, 18H

- 9A. Adjust the H-needle until the max speed is reached. Then turn the needle anticlockwise until the speed drops by 500 rpm.
- 10A. Run the engine warm at full throttle for 2–3 min.
- 11A. Check the idling speed and that the engine reacts quickly when accelerating.
- 11B. Adjust the H-needle until the max speed is reached. Then turn the needle anticlockwise until the speed drops by 500 rpm.

### After replacing the H- and L-needles

1. Remove the plastic sleeves from both needles and screw out the needles.

Carefully screw the new needles in until they bottom.
 Screw out the L-needle 2 turns. On models 322/325 the needle should be screwed out approx. 1 turn.
 Screw out the H-needle 1/2 turn. On models 322/325 the needle should be screwed out approx. 2 1/2 turns.

- 3. Press the new plastic sleeves on the needles until the first stop. The sleeves can still be turned without the needles turning.
- 4. Turn the plastic sleeve on the L-needle as far as possible clockwise (leanest fuel mixture).
- 5. Start the engine and let it idle.
- 6. Use screwdriver 531 00 48-63 to adjust the L-needle. The blade is 2 mm wide and goes through the plastic sleeve and only adjusts the needle.

Adjust the L-needle so that the highest idling speed is obtained. Use the tachometer 502 71 14-01 to check the speed.

- 7. Check that the plastic sleeve on the L-needle is still turned as far as possible clockwise (leanest fuel mixture).
- 8. Press the plastic sleeve on the L-needle using a punch (Ø5mm).



Now turn the L-needle as far as possible anticlockwise (richest fuel mixture).

- 9. Turn the plastic sleeve on the H-needle as far as possible anticlockwise (richest fuel mixture).
- 10. Fit four trimmer cords Ø 3.3 mm on a Trimmy Fix.

(Trimmy Fix M10, 531 00 38-69 for models 225, 232, 322L, 322R, 325L, 325L-X, 325R-X. Trimmy Fix M12, 502 13 87-02 for model 235).

Maybe the hole needs to be enlarged a little to make fitting the trimmer cords easier.

(Does not apply to models 225H60/H75 and 18H).

11. Cut the trimmer cord to the right length (measure the length to the edge of the Trimmy Fix).

Model 225: 145 mm Model 232: 155 mm

Model 235: 170 mm

Models 322L/R, 325L/L-X/R-X: 142 mm

Fit the Trimmy Fix on the machine.

Model 322C must be run with Trimmy Hit VI and its standard cord ( $\emptyset$  2.0 mm). Cut off the cord ends so that they are 146 mm long. (Does not apply to models 225H60/H75 and 18H).

#### NOTE!

The spray guard must be removed from model 235. Exercise care when the trimmer cord is rotating.

- 12. Start the engine. Adjust the idling speed T-screw if necessary.
- 13. Use screwdriver 531 00 48-63 to adjust the H-needle. The blade is 2 mm wide and goes through the plastic sleeve and only adjusts the needle.

Adjust the H-needle so that the max. speed 8400  $\pm$  200 rpm is set.

Use the tachometer 502 71 14-01 to check the speed. (Does not apply to models 225H60/H75).

- 14. Run the engine warm for 2-3 minutes.
- 15. Check that the max speed is still 8400  $\pm$  200 rpm. Adjust the H-needle if necessary.
- 16. Check that the plastic sleeve on the H-needle is turned as far as possible anticlockwise (richest fuel mixture).
- 17. Press in the plastic sleeve using a punch (Ø 5 mm).

The basic setting of the carburettor is now complete. Further fine adjustment, within the limits that the plastic sleeves on the needles permit, can be necessary.

#### Departures for models 225H60/H75, 18H

13A. Adjust the H-needle until the max speed is reached.

- Then turn the needle anticlockwise until the speed drops by 500 rpm.
- 14A. Run the engine warm at full throttle for 2–3 min.
- 15A. Check the idling speed and that the engine reacts quickly when accelerating.
- 15B. Adjust the H-needle until the max speed is reached. Then turn the needle anticlockwise until the speed drops by 500 rpm.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**

### After replacing only the L-needle

- 1. Turn the H-needle as far as possible clockwise (leanest fuel mixture).
- 2. Remove the plastic sleeve on the L-needle and unscrew the needle.
- 3. Carefully screw the new L-needle to the bottom and then loosen it 2 turns. On models 322/325 unscrew the needle 1 turn.
- Press a new plastic sleeve on the L-needle down to the first stop. The sleeve can now be turned without turning the needle.
- 5. Turn the plastic sleeve as far as possible clockwise (leanest fuel mixture).
- 6. Start the engine and let it idle.
- 7. Use screwdriver 531 00 48-63 to adjust the L-needle. The blade is 2 mm wide and goes through the plastic sleeve and only adjusts the needle.

Adjust the L-needle so that the highest idling speed is obtained.

Use the tachometer 502 71 14-01 to check the speed.



- 8. Check that the plastic sleeve on the L-needle is still turned as far as possible clockwise (leanest fuel mixture).
- 9. Press in the plastic sleeve using a punch (Ø 5 mm).

The basic setting of the carburettor is now complete. Further fine adjustment, within the limits that the plastic sleeves on the needles permit, can be necessary.

### Model 141B Model 141B Only the idling speed can be adjusted on The carburettor on this model has no this model. adjustable needles. The idling speed should be approx. Only the idling speed can be adjusted 2,500 rpm. with screw (A). The right speed is approx. 2,500 rpm. Adjust the idling speed when the engine is warm and has a clean air filter. Check that the throttle cable has 0.5-1 mm When the throttle is in the idling position the throttle cable must have 0.5-1 mm of of play. play. Adjust the play by first loosening both locking nuts (A) and then turning the adjuster screw (B). The play is increased when the screw is screwed inwards and decreases when screwed outwards. Tighten the locking nuts against each other after adjusting.

Fuel system										3			
Remarks	Index finger throttle 502 28 06-01. The throttle cable runs under the engine. Steel casing.	Index finger throttle 502 28 06-01. Steel casing on cables replaced by 502 27 93-03.	Index finger throttle 502 28 06-01. Brown Teflon casing.	Index finger throttle 502 28 06-01. Brown Teflon casing. The cable runs through the crankcase. Replaced by 537 03 71-02 and 537 02 42-02	Index finger throttle 502 28 06-01. Black plastic casing. Cable Ø 0.9. Kit with air filter holder and rubber bellows.	Index finger throttle 502 28 06-01. Black plastic casing. Cable Ø 0.9.	Thumb throttle 502 28 37-01. Steel casing replaced by 502 28 60-03.	Thumb throttle 502 28 37-01. Brown Teflon casing.	Thumb throttle 502 28 37-01. Brown Teflon casing. Cable Ø 0.9.	Thumb throttle 502 28 37-01. Brown Teflon casing. The cable runs through the crankcase. Replaced by 502 28 60-05.	Thumb throttle 502 28 37-01. Brown Teflon casing. The cable runs through the crankcase. Cable Ø 0.9. Replaced by 537 03 71-01 and 537 02 42-01.	Thumb throttle 502 28 37-01. Black plastic casing. Cable Ø 0.9. Kit with air filter holder and rubber bellows.	Thumb throttle 502 28 37-01. Black plastic casing. Cable Ø 0.9.
Nipples	, + L1+ + +				<pre>~ L1&gt;</pre>		<pre>L1+L2+</pre>				J	,,,,,,,,	5
Serial no.			>6520029	>7180059	>850001	>850001		>6450153		>7170157	>7420190 >7430001	>8450073	>8450073
L2 cable protrude mm	120 ±1	162 ±1	152 ±1	115 ±1	115 ±1	115 ±1	<b>1</b> 33 ±1	116 土1	116 ±1	80 ±1	80 ±1	80 ±1	80 ±1
L1 casing mm	1000 ±5	965 ±5	965 ±2	640 ±2	640 ±2	640 ±2	795 ±5	810 ±2	810 ±2	840 ±2	840 ±2	840 ±2	840 ±2
Order no.	502 27 29-01	502 27 29-06	502 27 93-03	502 27 93-04	537 03 71-02	537 02 42-02	502 27 29-07	502 28 60-03	502 28 60-06	502 28 60-04	502 28 60-05	537 03 71-01	537 02 42-01
	- 1993	1994 –	- 1996	1997 –	1998 –	1998 –	1995–	1996 –	- 1997	1997 – 1997 –	1997 – 1997 –	1998 –	1998 –
Model	250R	250R	250R	250R	250R	250R	250RX	250RX	250RX	250RX 252RX	250RX 252RX	252RX	252RX

**Throttle cable** 

www.mymowerparts.com

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983

31



# Throttle cable

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**

### **Fuel system**

3



### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**





Ensure the return spring (A) is facing the right way.

Check that the throttle cable and the short-circuit cable are pressed correctly down in their channels so that they are not pinched when the two handle halves are screwed together.

Do not forget to put the vibration element (B) in position before the handle halves are put together. Lubricate the vibration element with soapy water. This facilitates fitting the throttle on the shaft.

Fit together the handle halves using the 5 screws, but do not tighten them fully before the throttle has been positioned on the shaft.

Assemble the remaining parts in the reverse order as set out for dismantling.

#### Model 18H

Remove the screws and lift off the handle half.

#### Model 18H

Remove the screws and note how they were placed, as they are of different lengths.

Remove the handle half.

#### NOTE!

The lever arm for the throttle cable does *not* need to be dismantled.

d Inspect and replace worn or damaged parts.

Assemble in the reverse order as set out for dismantling.



### Inspect and replace worn or damaged parts.

Assemble in the reverse order as set out for dismantling.

### **Fuel system**

NOTE! Check pinche sits co Fit the

Check that the fuel hose is not pinched and that the stop contact sits correctly. Fit the throttle cable.

Model 141B Remove the screws and separate the handle halves. NOTE! Check that the fuel hose is not pinched and that the stop contact sits correctly. Fit the throttle cable.

3

#### Model 141B

Remove the screws and separate the handle halves.

#### NOTE! The screw for angling the handle does not need to be loosened or removed.





Worn or damaged parts can be easily replaced once the right-hand handle half has been removed.

Check when assembling that the shortcircuit cable is not pinched between the two handle halves.
# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Fuel system**

#### **Technical data**

Model	Idling speed rpm	Max. speed rpm ◊	Carburett type	or type setting *	Tank volume fuel, litre
Mondo	3,000	9.000	Walbro WT 380	H = 2 L = 2	0.48
122L	3,000	10.800	Walbro WYL		0.40
Mondo Max	3,000	9,000	Walbro WT 380	H = 2 L = 2	0.48
225L/LD	2,700	11,000 - 12,000	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.50
232L	2,700	11,000– 12,000	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.50
Mondo Mega	3,000	9,000	Walbro WT 380	H = 2 L = 2	0.46
225R/RD	2,700	11,000– 12,000	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.50
232R / 235 R	2,700	11,000– 12,000	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.50
322	2,500	12,500	Zama EL 11	H = 2 L = 1	0.50
325	2,500	12,500	Zama EL 11	H = 2 L = 1	0.50
240R	2,700	12,500	Walbro WT 99	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
245R	2,700	12,500	Walbro WT 99	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
250R	2,700	12,500	Walbro HDA 86B Walbro HDA 142	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
245RX	2,700	12,500	Walbro WT 99	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
250RX	2,700	13,500	Walbro HDA 86B Walbro HDA 142	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
252RX	2,700	14,000	Walbro HDA 142	H = 1 - 1 1/4 L = 1 - 1 1/4	0.80
265RX	2,250	11,500	Tillotson HS 121A	H = 1 - 1 1/4 L = 1 - 1 1/4	1.00
240RBD	2,700	11,000– 12,000	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.60
235P	2,700	-	Walbro WT 235 Walbro WT 270	H = 3/4 - 1 L = 3/4 - 1	0.50
250PS	2,500	11,500	Walbro HDA 86B Walbro HDA 142	H = 1 - 1 1/4 L = 1 - 1 1/4	0.90
225E	2,700	11,000– 12,000	Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.50
18H	3,000	10,000	Walbro WT 379 Zama CIU-W4	H = 2 L = 2	0.21
225H60/75	2,700	11,000– 12,000	Walbro WT 406 Walbro WT 421	H = 1 - 1 1/4 L = 1 - 1 1/4	0.40
140B	2,500		Walbro HDA 110A	H = 1 L = 1	2.0
141B	2,500		Walbro WYK	-	2.0
132HBV	2,500	7,600	Walbro WT 141		0.60
225BV/225HBV	2,500	8,200	Walbro WT 235 Walbro WT 270	H = 1 - 1 1/4 L = 1 - 1 1/4	0.40

\* Only basic setting. Applies to carburettor needles without plastic caps fitted.

◊ Do not exceed the stated max speed. Risk of engine damage. The figures apply to a run-in engine. Reduce the speed by 600 – 700 rpm for an engine that has not been run-in.

# **Centrifugal clutch**



#### Contents

Clutch and clutch drum	
Model 250PS	38
Models 240/245	38
Models 225 AI15, 225 AI25	39
Models 322/325	39
Model 322C	40
Model 18H	41
Technical data	43



#### Clutch Model 250PS

Unscrew the cable clamp (A) and the hose clamp (B).

Turn the hydraulic oil tank clockwise and pull it off from the engine body.

#### Clutch Model 250PS

The clutch on this model is positioned between the engine body and the hydraulic unit.

- 1. Unscrew the clamp (A) holding the control cable on the hydraulic oil tank.
- 2. Loosen the hose clamp (B).
- 3. Turn the hydraulic oil tank clockwise and pull it off from the engine body. (Bayonet fitting).

Remove the clutch nut and dismantle the clutch according to the instructions for model 250.



Clutch drum Model 250PS

Dismantle the clutch drum from the hydraulic unit's axle



## Clutch

ing and remove shaft unit.

Models 240/245 Separate the engine body and tank unit. Unscrew the screws on the clutch housDismantle the cylinder cover and replace the spark plug with piston stop no. 504 91 06-05.

Remove the clutch nut by turning it anticlockwise.

Dismantle the clutch from the crankshaft and carry out an inspection and servicing as set out in the instructions for model 250.

#### **Clutch drum** Model 250PS

The clutch drum is screwed onto the hydraulic unit's axle.

Dismantle the drum by using the holding tool 502 52 16-01 and allen key 502 52 14-01.

#### NOTE!

Turn the allen key clockwise.

Replace the clutch drum if the inner diameter exceeds 70.0 mm.

#### Clutch Models 240/245

Separate the engine body and tank unit in the same way as described for model 250.

Remove the screws holding the clutch housing on the engine body and lift off the entire shaft unit.

The clutch can be one of two different designs. Firstly, a three shoe clutch of the same type as used on model 235. See this model for service measures. This clutch was introduced from the following serial numbers:

Model 240R no. 82 00 059, model 245R no. 81 70.180, model 245RX no. 81 60 227. Secondly, the clutch can be a two shoe model as described in the workshop manual.





# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

## **Centrifugal clutch**

Clutch Models 225 AI15, 225 AI25 Dismantle the gearbox from the engine body to access the clutch and clutch drum.

Also see the section in the workshop manual for models 225/232 concerning servicing the clutch.

#### Clutch drum Models 225 AI15, 225 AI25

Dismantle the screw and lift out the clutch drum.

#### Clutch Models 225 AI15, 225 AI25

Remove the 6 screws holding the gear housing on the engine body and lift off the gearbox.

Δ

See the section in the workshop manual for models 225/232 with regard to dismantling, service and assembly of the clutch.

#### Clutch drum Models 225 AI15, 225 AI25

The clutch drum can be removed once the screw in the centre is unscrewed anticlockwise.

Replace the clutch drum if the inner diameter exceeds 64.5 mm.



#### Clutch Models 322, 325

Dismantle the clutch by following the instructions in the chapter "Ignition system".

Twist apart the clutch and inspect the different parts with regard to wear or damage.

#### Clutch Models 322, 325

The centrifugal clutch is screwed to the flywheel.

Follow the detailed instructions in the chapter "Ignition system" when the clutch is to be dismantled.

Twist apart the clutch.

Inspect the different parts with regard to wear or damage.

Pay special attention to the ends of the springs, which in addition to wear, can also show signs of cracking.







#### Model 322C

Dismantle the clutch cover and remove the shaft's mounting parts in the cover. Remove the circlip. Connect the clutch shoes together with the spring.

#### NOTE!

Both clutch shoes should be replaced even if only one of them is showing signs of heavy wear. This is to avoid engine vibration caused by imbalance in the clutch.

Screw the clutch on the flywheel. Do not forget the washers between the flywheel and the clutch shoes.

#### Clutch drum Models 322/325

Separate the shaft from the clutch cover.

Pull away the clutch cover complete with drive axle and clutch drum.

The drum is screwed on the drive axle and can be dismantled using tool 502 52 16-01.

The clutch drum should be replaced if the diameter exceeds  $\varnothing$  64.0 mm

The bearing supporting the clutch drum in the clutch cover is glued in position with Loctite. To replace the bearing, heat the cover to approx. 70°C using a hot air gun and the glue will release.

Dismantle the bearing using an appropriate punch and hammer.

#### NOTE!

Dismantle the shaft's mounting clamps and rubber spacer in the clutch cover so that these parts are not damaged when the cover is heated.

Assemble in the reverse order as set out for dismantling.

Use Loctite intended for mounting bearings when the bearing is mounted in the clutch cover.

#### Model 322C

Dismantle the clutch cover from the shaft. Remove the shaft's mounting parts on the clutch cover.

Dismantle the circlip holding the clutch drum's spindle by the bearing.



Clutch drum Model 18H See chapter "Attachments". Clutch drum Model 18H See chapter "Attachments".

#### **Technical data**

Model	Engage speed rpm	Wear limit clutch drum	Wear limit clutch shoe
Mondo	4,000	-	-
122L	3,900	Ø 58.0	Min. 0.5 mm of lining remaining
Mondo Max	4,000	-	-
225L/LD	3,700	Ø 64.5	Max 1 mm wear per shoe
232L	3,800	Ø 64.5	Max 1 mm wear per shoe
Mondo Mega	4,000	_	_
225R/RD	3,700	Ø 64.5	Max 1 mm wear per shoe
232R	3,800	Ø 64.5	Max 1 mm wear per shoe
322	3,800	Ø 64.0	Max 1 mm wear per shoe
325	3,800	Ø 64.0	Max 1 mm wear per shoe
235R	3,800	Ø 64.5	Max 1 mm wear per shoe
240R	3,700	Ø 65.0	Max 1 mm wear per shoe
245R	3,700	Ø 65.0	Max 1 mm wear per shoe
250R	4,300	Ø 70.0	Max 1 mm wear per shoe
245RX	3,700	Ø 65.0	Max 1 mm wear per shoe
250RX	4,300	Ø 70.0	Max 1 mm wear per shoe
252RX	4,300	Ø 70.0	Max 1 mm wear per shoe
265RX	3,500	Ø 80.0	Max 1 mm wear per shoe
240RBD	3,600	Ø 64.5	Max 1 mm wear per shoe
235P	3,900	Ø 64.5	Max 1 mm wear per shoe
250PS	4,300	Ø 70.0	Max 1 mm wear per shoe
225E	3,700	Ø 64.5	Max 1 mm wear per shoe
18H	4,600	-	-
225H60/75	5,400	Ø 64.5	Max 1 mm wear per shoe
225AI15, 225AI25	5,400	Ø 64.5	Max 1 mm wear per shoe

# Angle gear



#### Contents

Assembling model 265	46
Dismantling, assembling, models 250, 240/245	46
Dismantling, assembling, models 322/325	48
Assembly	49
Technical data	50

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Angle gear**





#### Dismantling, assembling Models 250, 240/245

Remove the cover, O-ring and washer.

#### Assembly Model 265

Fit the bearings on respective axles. It is easier if the bearing is heated to approx.  $100^{\circ}C$ .

#### NOTE!

Do not forget the circlip holding the bearing on the input axle.

Heat the gear housing to approx. 150°C and first lift the output axle in position and then the input axle.

Make sure the bearing bottoms in its seating.

The parts (A) *are only supplied with spare part gears.* This is so the gears can be fitted on the old 165R where drive axle also had a spline on the clutch drum.

The parts (A) prevent the drive axle from sliding down through the pinion gear towards the gear on the blade axle. Mounted inside the pinion gear axle.

In those cases the drive axle is threaded by the clutch drum these parts are *not* required.

From serial number 64 90 191 the sealing ring has been removed and replaced with the three parts listed below.

- 1. Steel spacer
- 2. Aluminium ring
- 3. O-ring

The operating temperature falls considerably when the sealing ring is removed and is replaced by the new components. In addition, the steel spacer prevents the blade axle from shifting upwards, e.g. with impact from below.

On later models of the angle gear (from serial number 62 60 067) another type of drive disc has been fitted to prevent grass and dirt from penetrating into the angle gear and destroying the sealing ring. The new drive disc has order no. 502 25 41-02.

It can be fitted to angle gears that have cover with order no. 502 10 72-02 and 502 10 72-03. The centre hole in the cover is  $\emptyset$  22 mm.

#### Dismantling, assembling Models 250, 240/245

Remove the 3 screws holding the cover. Lift off the cover, O-ring (240/245) and the washer that lies against the bearing.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

## Angle gear





Unscrew the ring nut.





Models 240, 245

Unscrew the ring nut holding the input axle in position by using tool no. 502 52 17-01.

5

Heat the gearbox and dismantle the input and output axles in the same way as described for model 265.

#### NOTE!

The input axle with pinion must be dismantled first. Use puller 502 50 65-01 when the output axle is dismantled.

Replace damaged parts.

Assemble the angle gear in the reverse order as set out for dismantling.

Fit the bearings on respective axles. It is easier if the bearing is heated to approx.  $100^{\circ}C$ .

#### NOTE!

Do not forget the circlip holding the bearing on the input axle. Make sure the bearing bottoms in its seating.

Heat the gear housing to approx. 150°C and first lift the output axle in position and then the input axle. Make sure the bearing bottoms in its seating.

#### NOTE!

The sealing ring on later models has been replaced by an O-ring and an aluminium sleeve (A).

#### NOTE!

On the new angle gear design for models 240/245 the sealing ring (B) has been replaced by an O-ring, aluminium ring and a steel spacer.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Angle gear**



www.mymowerparts.com

pliers.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

## Angle gear

H 1: ar

Heat the entire angle gear to approx. 110°C and first dismantle the input axle and then the output axle. Heat the entire angle gear using a hot air gun to approx. 110°C.

5

Knock the gear against a wooden block so that the input axle and the bearing fall out.

Now lift out the output axle. Wear protective gloves

#### Assembly

Clean all component parts and replace if damaged or worn.

Fit the bearings on respective axles. This is easier if the bearings are heated to approx.  $110^{\circ}$ C using a hot air gun.

#### NOTE!

Do not forget the circlip (A) holding the bearing on the input axle.

Heat the gearbox to approx. 110°C and first place the output axle in position and then the input axle.

Make sure the bearing bottoms in its seating.

Fit the circlips (B) and (C). Make sure they lie correctly in their grooves.

Assemble remaining parts in the reverse order as set out for dismantling.

#### NOTE!

Do not forget to fill the gear housing to approx. 3/4 with gear housing grease 503 97 64-01 once the plug (D) has been removed.



# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **5 Angle gear**

### Technical data

Model	Gear ratio	Axle thread	Blade hole diameter mm	Blade diameter mm	Angle degrees	Max. axle speed rpm
M ndo	1:1	3/8"x24(R)	-	-	30°	9,000
122L	1:1.33	M10x1.25	-	-	35°	8,100
Mondo Max	1:1.23	3/8"x24(L)	-	-	30°	7,300
225L/LD	1:1.40	M10x1.25	-	-	35°	8,500
232L	1:1.40	M10x1.25	-	-	35°	8,500
Mondo Mega	1:1.33	3/8"x24(L)	20.0	200	30°	7,300
225R/RD	1:1.40	M10x1.25	20.0	200–255	35°	8,500
232R	1:1.40	M10x1.25	20.0	200–275	35°	8,500
322	1:1.46	M10x1.25	25.4	200–255	30°	8,560
325	1:1.46	M10x1.25	25.4	200–255	30°	8,560
235R	1:1.53	M12x1.75	20.0	200–300	35°	7,800
240R	1:1.36	M12x1.75	20.0	200–300	30°	9,190
245R	1:1.36	M12x1.75	20.0	200–300	30°	9,190
250R	1:1.36	M12x1.75	20.0	200–300	30°	9,190
245RX	1:1.36	M12x1.75	20.0	200–300	30°	9,190
250RX	1:1.36	M12x1.75	20.0	200–300	30°	9,930
252RX	1:1.36	M12x1.75	20.0	200–300	30°	10,300
265RX	1:1.26	M12x1.75	20.0	200–300	25°	9,120
240RBD	1:1.40	M10x1.25	20.0	200–300	35°	7,800
235P	_	-	-	-	_	-
250PS	-	-	-	-	_	-
225E	1:1.40	M10x1.25	25.4	-	35°	8,500
18H	1:5.7	-	-	-	-	-
225H60/75	1:7.25	-	-	-	_	-
140B, 141B	-	-	-	-	-	-
132HBV	_	-	_	-	-	_
225BV/225HBV	-	-	_	-	_	-

# **Cylinder and piston**





#### Contents

Dismantling, cleaning, inspection, assembly, models 322/325	_ 52
Dismantling, cleaning, inspection, assembly, model 18H	_ 53
Dismantling, cleaning, inspection, assembly, models 140B, 141B	_ 55
Analysis and measures	_ 56
Service tips	_ 61
Wear limits	_ 61
Technical data	_ 62



Before the piston and cylinder are assembled the parts must be cleaned and inspected in the same way as described for models 250, 265. Also see section "Analysis and measures".

Check that the rubber induction manifold between the cylinder and distance piece is not cracked nor has other damage that can cause leakage.

www.mymowerparts.com

der. Check the rubber induction manifold

with regard to crack formation and other

damage.











Clean and inspect the different cylinder and piston parts.

#### NOTE!

If the piston is to be dismantled from the connecting rod, the engine must first be dismantled from the fan so that one of gudgeon pin's circlips can be removed. See chapter "Ignition system".

### Assembly

Models 140B, 141B Assembly takes place in the same way as described for model 122.



New piston. Inlet side.



Small to medium sized scores primarily in the middle of the exhaust port.



New piston. Exhaust side.

#### **Insufficient lubrication**

The piston has small to medium size score marks usually in front of the exhaust port. In extreme case heat development can be so great that material from the piston smears along the piston skirt and even in the cylinder bore.

Generally the piston ring is undamaged and moves freely in the ring groove There can also be scores on the inlet side of the piston.

#### Reason:

- Incorrect carburettor setting. Recommended max. speed exceeded.
- Incorrect oil mixture in the fuel.
- Fuel has too low octane value.

# Assembly

#### Models 140B, 141B

Assembly takes place in the same way as described for model 122. (See Workshop Manual).

Cleaning, inspection

Clean and inspect the cylinder, piston,

piston rings and gudgeon pin in the same way as described for models 250, 265 in the Workshop Manual. Also see section

Scrape off any gasket residue from the

base of the cylinder and crankcase as

well as the contact surfaces for the dis-

tance piece on the carburettor side.

Models 140B, 141B

"Analysis and measures".

#### NOTE!

If the piston has been dismantled from the connecting rod it is assembled so that the locking pin comes towards the exhaust port. Use assembly kit no. 504 90 00-03 and tool 502 50 70-01 when the cylinder is fitted on the crankcase. Assemble remaining parts in the reverse order.

#### Analysis and measures

The two pictures to the left show what a new piston looks like, one on the inlet side the other on the exhaust side. Note that the machining marks from manufacturing are clearly visible.

Use these pictures as a reference when determining damage and wear.

Experience tells us that piston or cylinder failures due to manufacturing errors are extremely rare.

The reason is usually due to other factors, which is evident from the following.

Note the reasons for the breakdown, repair the damage and take the actions to prevent the same thing happening again.

Check and change the carburettor set-

alue. Change to a higher octane petrol.

Change the fuel.

Action:

ting.



Medium to deep scores along the entire piston skirt on the exhaust side.



Heavy scoring along the entire piston skirt on the exhaust side.

The piston ring starts to stick or is completely stuck in its groove and has therefore not been able to seal against the cylinder wall, which has resulted in further, intensive temperature increases on the piston

Seizure scores along the entire piston skirt on the inlet and exhaust sides.

#### Reason:

- Incorrect oil mixture in the fuel.
- Fuel has too low octane value.
- Air leaks.
   Cracked fuel pipe.
   Leaking inlet gaskets.
   Cracked manifold or inlet manifold.
- Air leakage in engine body. Leaking crankshaft seals. Leaking cylinder and crankcase gaskets.

Bad maintenance. Dirty cooling fins on the cylinder. Blocked air intake on the starter. Blocked spark arrest screen on the muffler.

#### Action:

Change to a fuel with the correct oil mixture. Change to a higher octane petrol. Replace damaged parts.

Replace leaking gaskets and shaft seals.

Clean the cooling fins and air intake.

Clean or replace the spark arrest screen.

For the best results we recommend Husqvarna two-stroke oil, which is specially developed for air-cooled two-stroke engines.

Mixing ratio: 1:50 (2%).

If Husqvarna two-stroke oil is not available another good quality two-stroke oil can be used.

Mixing ratio: 1:33 (3%) or 1:25 (4%).

#### Piston scoring caused by heavy carbon deposits

Too heavy carbon depositing can cause damage similar to that caused by insufficient lubrication. However, the piston skirt has a darker colour caused by the hot combustion gases that are blown past the piston.

This type of piston damage starts at the exhaust port where carbon deposits can become loose and trapped between the piston and cylinder wall.



Medium to deep scores on the exhaust side. The piston ring is stuck in the groove. Black discoloration under the piston ring due to blow-by.

Wrong type of two-stroke oil or petrol.

Incorrect oil mixture in the fuel.



Inlet side. The piston ring is stuck in the groove. Black discoloration under the piston ring due to blow-by.



Cause:

Typical for this type of piston damage is brown or black discoloration of the piston skirt.

#### Action:

Change the fuel. Change to a fuel with the correct oil mixture. Correct the carburettor setting



Exhaust side damaged by a broken piston ring. The piston ring parts damage the top section and cause score marks.

#### Piston damage caused by a too high engine speed

Typical damage associated with a too high engine speed is broken piston rings, broken circlips on the gudgeon pin, faulty bearings or that the guide pin for the piston ring has become loose.

#### Piston ring breakage

A too "lean" carburettor setting results in a too high speed and a high piston temperature. If the piston temperature rises above the normal working temperature the piston ring can seize in its groove, consequently it will not sit deep enough in its groove. The edges of the piston ring can then hit the top edge of the exhaust port and be smashed and also cause piston damage.

A too high engine speed can also cause rapid wear to the piston ring and play in the piston ring groove primarily in front of the exhaust port. The ring is weakened by the wear and can be caught in the port causing serious piston damage.



The guide pin for the piston ring has been pushed up through the top of piston.

#### Piston ring guide pin vibrated loose

A too high engine speed can cause the ends of the piston ring to hammer against the guide pin when the piston ring moves in its groove. The intensive hammering can drive out the pin through the top of the piston causing serious damage also to the cylinder.



Deep, irregular grooves caused by a loose circlip. Shown here on the piston's inlet side.

# Damage caused by gudgeon pin circlips

A too high engine speed can cause the gudgeon pin circlips to vibrate. The circlips are drawn out of their groove due to the vibrations, which in turn reduces the circlips' tensioning power. The rings can then become loose and damage the piston.



Irregular grooves on the piston's inlet side caused by a broken roller retainer.

#### **Bearing failure**

A failure on the crankshaft bearing or on the connecting rod bearing is usually caused by a too high engine speed, resulting in the bearing being overloaded or over heating. This in turn can cause the bearing rollers or ball to glide instead of rotate, which can mean the roller or ball retainer breaks.

The broken debris can be trapped between the piston and cylinder wall, damaging the piston skirt.

Debris can also pass up through the cylinder's transfer channels and cause damage to the top and sides of the piston as well as the cylinder's combustion chamber.



Small score marks and a matt, grey surface on the piston's inlet side caused by fine dust particles.

#### Foreign objects

Everything other than clean air and pure fuel that enters the engine's inlet port causes some type of abnormal wear or damage to the cylinder and piston.

This type of increased wear shows on the piston's inlet side starting at the lower edge of the piston skirt.

The damage is caused by badly filtered air that passes through the carburettor and into the engine.



#### Inlet side.

Particles of dust and dirt from carbon-like deposits on the top of the piston and in the piston ring groove. The piston ring sits firmly in the groove. Piston material has been worn away.

The lower part of the piston skirt is thinner on the inlet side than on the exhaust side.



The piston scored and worn from the piston ring down on the inlet side.



Extensive damage to the lower part of the piston's inlet side.

#### Cause:

- Faulty air filter. Small dust particles pass through the filter.
- The filter is worn out due to too much cleaning, whereby small holes have appeared in the material.
- Unsuitable filter maintenance, e.g. wrong method or wrong cleaning agent. Flock material becomes loose and holes appear.
- Air filter incorrectly fitted.
- Air filter damaged or missing.



#### Action:

Fit a finer grade filter.

Check the filter carefully for holes and damage after cleaning. Replace the filter if necessary.

Clean more carefully and use the right cleaning agent (e.g. tepid soapy water or Husqvarna Active Cleaning). Change the filter.

Fit the filter correctly.

Fit a new air filter.

Large, softer particles that penetrate into the engine cause damage to the piston skirt under the piston ring as the photograph shows.

#### Cause:

- Air filter incorrectly fitted.
- Air filter damaged or missing.

#### Action:

Fit the air filter correctly. Fit a new air filter.

Larger, harder particles that enter the engine cause serious damage to the underside of the piston skirt.

#### Cause:

• Air filter damaged or missing.

• Parts from the carburettor or intake system have become loose and entered the engine.

#### Action:

Fit a new air filter. Regular service and inspection.

#### Service tips

#### Defect:

Broken cooling fins, damaged threads or sheared bolts by the exhaust port.

Seizure marks in the cylinder bore (especially by the exhaust port).

Surface coating in the cylinder bore worn out (primarily at the top of the cylinder).

The piston shows signs of seizure score marks.

Piston ring burnt in its groove.

#### Action:

In bad situations – replace the cylinder. Repair the threads using Heli-Coil.

Polish the damaged area using a fine grade emery cloth so that the coating of aluminium disappears. With deep seizure score marks the piston and cylinder should be replaced.

Replace the cylinder and piston.

Carefully polish the damaged area using a fine file or fine grade emery cloth. Before the piston is refitted the cylinder should be polished as above. With deep score marks the piston and cylinder should be replaced.

Carefully loosen the piston rings and clean the groove well before refitting. Carbon deposits in the groove impair the important heat transfer between the piston and cylinder.

Check the wear on the piston ring by placing it in the lower part of the cylinder.

#### Wear tolerances

#### Cylinder bore



When the surface coating is worn and aluminium appears.

Piston ring gap



Max. 1.0 mm with the piston ring inserted in the lower part of the cylinder.



Max. height on a new piston ring + 0.10 mm.

#### Piston ring play



Max. 0.15 mm. Clean the groove carefully before measuring.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 6 Cylinder and piston

#### **Technical data**

Model	Displacement cm <sup>3</sup>	Cylinder diameter mm	Stroke length mm
Mondo	24.0	34.5	26.4
122L	22.5	32.0	28.0
Mondo Max	24.0	34.5	26.4
225L/LD	25.4	34.0	28.0
232L	30.8	35.0	32.0
Mondo Mega	24.0	34.5	26.4
225R/RD	25.4	34.0	28.0
232R	30.8	35.0	32.0
322	21.7	32.0	27.0
325	24.5	34.0	27.0
235R	36.3	38.0	32.0
240R	40.2	40.0	32.0
245R	44.3	42.0	32.0
250R	48.7	44.0	32.0
245RX	44.3	42.0	32.0
250RX	48.7	44.0	32.0
252RX	50.8	45.0	32.0
265RX	65.1	48.0	36.0
240RBD	36.3	38.0	32.0
235P	36.3	38.0	32.0
250PS	48.7	44.0	32.0
225E	25.4	34.0	28.0
18H	18.0	29.5	26.4
225H60/75	25.4	34.0	28.0
140B, 141B	40.2	40.0	32.0
132HBV	31.7	36.9	30.2
225BV/225HBV	25.4	34.0	28.0

# **Crankshaft and crankcase**



#### Contents

Replacing the sealing ring ignition side	
Model 250PS	64
Replacing the sealing ring clutch side	
Model 250PS	64
Assembling the crankcase	
Model 250PS	64
Dismantling/assembling the crankshaft	
Model 225HBV	65
Models 225AI15, 225AI25	66
Models 322, 325	67
Dismantling/Assembling the crankcase	
Model 18H	67
Models 140B, 141B	69
Leakage testing the crankcase	70
Husqvarna E-TECH	71

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983**7** Crankshaft and crankcase



Replacing the sealing ring ignition side Model 250PS

Dismantle the fuel tank.

#### Replacing the sealing ring ignition side Model 250PS

First dismantle the fuel tank, which is placed outside of the starter.

Remove the 4 screws (two on each side) holding the tank on the crankcase.







Dismantle the cylinder cover, starter and flywheel.



#### Replacing the sealing ring clutch side Model 250PS

Dismantle the hydraulic oil tank, the adapter between the engine body and the hydraulic oil tank and the clutch.

Now replace the sealing ring in the same way as described for model 250 (see the Workshop Manual).

Assembling the

crankcase

Model 250PS

engine body.

## Let the tank remain suspended by the fuel hose.

Dismantle the cylinder cover.

Remove the screws and lift off the starter. Dismantle the flywheel by using the push bar no 505 26 79-12.

The sealing ring is now accessible for replacement in the same way as described for model 250 (see the Workshop Manual).

#### Replacing the sealing ring clutch side Model 250PS

Dismantle the hydraulic oil tank from the engine body. See chapter "Centrifugal clutch" in the Workshop Manual.

Remove the clutch.

See chapter "Centrifugal clutch" in the Workshop Manual.

Dismantle the adapter between the engine body and the hydraulic oil tank by removing the 4 screws.

Now replace the sealing ring in the same way as described for model 250 (see the Workshop Manual).

#### Assembling the crankcase Model 250PS

Follow the same assembly procedure as described for model 250 in the Workshop Manual.

Screw the hydraulic oil tank adapter in the engine body.

Place the hose clip on the adapter so the little tab enters the hole in the adapter. Only tighten the hose clip so that it cannot be turned. This facilitates the assembly of the hydraulic oil tank.

## www.mymowerparts.com

See model 250 in the Workshop Manual.

Screw the hydraulic oil tank adapter in the

Place the hose clip on the adapter.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

clockwise. (Bayonet fitting).

Tighten the hose clip.

## Crankshaft and crankcase

Slide the hydraulic oil tank in the adapter

as far as it will go and then turn it anti-

Slide the hydraulic oil tank in the adapter as far as it will go and then turn it anti-

clockwise. (Bayonet fitting). Tighten the hose clip.

Dismantling/assembling the crankshaft Model 225HBV

Dismantle the lower half of the blower unit.

Dismantle the blades and impeller.

Remove the steel rail.

#### Dismantling/assembling the crankshaft Model 225HBV

Remove all screws (11) holding the lower half of the blower unit and lift off this. Remove the steel rail.





Dismantle the upper half of the blower unit and lift off the cover over the handle.

Replace the spark plug with piston stop (no. 504 91 06-05).

Unscrew the centre nut and lift off the blades and impeller.

Remove the 4 screws (2 on each side) holding the upper half of the blower unit. Lift off the cover over the handle.





# For Husqvarna Parts Call 606-678-9623 or 606-561-4983Crankshaft and crankcase



- Remove the 2 screws holding the handle on the crankcase.
- Remove the 2 screws holding the handle on the crankcase.

Separate the engine body and handle part and dismantle all components around the crankcase.

Remove the 4 screws.

Separate the handle part and engine body.

Dismantle all components around the crankcase. See respective chapters in the Workshop Manual and Supplement,

Dismantle and assemble the crankcase in the same way as described for models 225/232/235 in the Workshop Manual. Dismantle and assemble the crankcase in the same way as described for models 225/232/235 in the Workshop Manual.

#### NOTE!

Check when assembling that the throttle cable and short-circuit cable are not pinched.

Do not forget the spacer nut that should lie closest to the crankcase!



#### Dismantling/assembling the crankshaft Models 225AI15, 225AI25

Dismantle the gearbox from the engine body.

Dismantle and assemble the crankcase in the same way as described for models 225/232/235 in the Workshop Manual.

#### Dismantling/assembling the crankshaft Models 225AI15, 225AI25

Remove the 6 screws holding the gearbox on the engine body and lift off the gearbox.

Dismantle all components around the crankcase and dismantle and assemble the crankshaft in the same way as described for models 225/232/235 in the Workshop Manual.

## **Crankshaft and crankcase**



#### Dismantling, the crankshaft Models 322, 325

Dismantle all components so that only the crankcase and crankshaft remain. Now lift the crankshaft out of the crankcase.

#### Dismantling, the crankshaft Models 322, 325

Dismantle all components so that only the crankcase and crankshaft remain.

See respective sections for detailed information if necessary.

Now lift the crankshaft out of the crankcase.

Remove the bearing (sliding fit) and the spacer washers.

#### Assembling, the crankshaft Models 322, 325

Check the crankshaft as set out in the section "Checking the crankshaft" in the Workshop Manual.

Clean the contact surfaces on the crankcase.

Fit new bearings on the crankshaft with the open side facing in towards the crank disc.

Lubricate the big-end bearing with a few drops of engine oil and position the crank-shaft in the crankcase.

Assemble all the remaining parts in the reverse order as set out for dismantling.

See respective sections if necessary.

Leakage test the crankcase according to the instructions in the section "Leakage testing the crankcase".



#### Dismantling the crankcase Model 18H

Dismantle all components so that only the crankcase and crankshaft remain.

Remove the cover over the crankcase.

#### Dismantling the crankcase Model 18H

Dismantle all components so that only the crankcase and crankshaft remain.

See respective chapters if necessary.

NOTE! Mark which end of the crankshaft should face the piston.

Remove the cover over the crankcase. Carefully pry up with a screwdriver. Sealant has been used on both sides of the gasket.

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983**7** Crankshaft and crankcase



Remove the circlip.

case.

Remove the circlip on the spindle using circlip pliers.

Place a wooden block under the crankcase and press out the crankshaft by

Turn the crankshaft so that the crank disc does not hit the

Dismantle the bearings and sealing rings in the same way as described for model 32 in the

using a plastic hammer.

NOTE!

crankcase.







Fit a new sealing ring and circlip in the crankcase.

Dismantle the crankshaft from the crank-

Dismantle the bearing and sealing rings.

Fit the crankshaft's bearing.

Fit the crankshaft in the crankcase and the circlip on the crankshaft.

Fit the connecting rod on the crankshaft journal.

Fit the piston on the connecting rod and the remaining parts in the reverse order as set out for dismantling.



#### Assembling the crankcase Model 18H

Workshop Manual.

Fit a new sealing ring in the crankcase. Fit the circlip and check that it lies correctly in its groove.

Fit the crankshaft's bearing.

Fit the crankshaft in the crankcase and the circlip on the crankshaft.

Fit the connecting rod on the crankshaft journal. Turn it so that the marked end faces towards the piston.

Assembly takes place in the same way as described for model 32 in the Workshop Manual.

Fit the piston on the connecting rod so that the piston ring's locking pin comes opposite the inlet port on the cylinder.

Assemble remaining parts in the reverse order as set out for dismantling.

NOTE! Use sealant on both sides of the gasket on the cover over the crankcase.



# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

## Crankshaft and crankcase



# For Husqvarna Parts Call 606-678-9623 or 606-561-4983Crankshaft and crankcase





Position the fan side's crankcase half and tighten the 4 crankcase screws.

Fit the piston with the locking pin facing the exhaust port on the cylinder.



#### Leakage testing the crankcase

Fit the two sealing plates (A) and the pressure test nipple (B).



Connect the pressure gauge or vacuum gauge and check for leakage.



Place a new crankcase gasket in position. Secure it with a little grease so it does not slide out of position.

Position the fan side's crankcase half and tighten the 4 screws.

Fit the piston so that the locking pin faces the exhaust side of the cylinder.

Assemble remaining parts in the reverse order as set out for dismantling.

#### Leakage testing the crankcase

Fit one sealing plate (A) 502 54 11-01 between the carburettor and the induction manifold and a plate between the cylinder and the muffler.

Fit the pressure test nipple (B) 503 84 40-01 in the spark plug hole.

Connect the pressure gauge 5025038-01 to the nipple and pump a pressure of 50 kPa (0.5 kp/cm<sup>2</sup>) in the crankcase.

Max. permitted leakage: 20 kPa (0.2 kp/ cm<sup>2</sup>) per 30 seconds.

Connect the vacuum gauge 502 50 37-01 to the nipple and lower the pressure in the crankcase to 50 kPa (0.5 kp/cm<sup>2</sup>).

Max. permitted leakage:

20 kPa (0.2 kp/cm<sup>2</sup>) per 30 seconds.

#### NOTE!

When pressurising the crankcase, leakage can occur on the induction manifold on those models that have a rubber induction manifold even if the limit of 0.5 kp/cm<sup>2</sup> is not exceeded. Let the sealing compound (Silicone) cure before the crankcase is pressurised or depressurised.

Any leakage can be difficult to localise if the crankcase is depressurised.

When leakage has been established with a vacuum, you can apply a slight overpressure  $(0.1-0.3 \text{ kp/cm}^2)$  and at the same time apply a layer of thin oil on the joints and the sealing ring's contact surfaces on the crankcase to make leak detection easier. Bubbles clearly mark the position of the leakage.



# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

## **Crankshaft and crankcase**



#### Husqvarna E-TECH

In 1996 Husqvarna presented a new, improved two-stroke engine as a part of the company's efforts to produce engines that emit smaller amounts of hazardous substances.

The new engine was given the designation E-TECH and was first used in a new brush cutter model.

More stringent environment regulations in the USA, which primarily involve a lowering of the hydrocarbons, nitrous oxides and carbon monoxide content, brought about the new engine design.

Environment degradation is reduced through decreasing the amount of unburnt gases (flushing losses) in the exhaust fumes.

Comparison between a E-TECH engine model and the three year older engine design model 125 shows that the CO content has been halved and the hydrocarbons and nitrous oxide contents have been reduced by close to 70%. In addition a powerful increase in output is gained.

What makes the E-TECH engine design unique is not a specific design solution but rather several solutions interacting to reduce flushing losses in the engine.

The carburettor's job is to mix the air and fuel in the right proportions to give a combustible mixture, irrespective of the speed and work load. The carburettor's adjustable needles have been fitted with movement limiters to prevent the engine from being run with a too "rich" fuel/air mixture. (Also see chapter "Fuel system").
# For Husqvarna Parts Call 606-678-9623 or 606-561-4983Crankshaft and crankcase



The design of the flushing channels and flushing ports have a large effect on the flushing losses.

By finely adjusting the channels' cross section area and angle to the rear edge of the cylinder as well as modification of the channel's last upward section, flushing can be made more efficient (preventing a part of the oxidising gases from passing directly out in the exhaust channel).

By reducing the area of the muffler's discharge opening the counter pressure is increased and a smaller amount of unburnt exhaust fumes come out of the muffler. Oxidising gases that flow up from the crankcase meet greater resistance from the exhaust fumes and a small amount reach the combustion chamber. A disadvantage of the increased counter pressure is the engine output decreases.

The crankcase pressure has been increased in the E-TECH engine so that a larger amount of oxidising gases can be pumped through the flushing channels to compensate for the output loss.

This has been achieved by filling the crankshaft's crank discs (A) to reduce the "dead" non active volume in the crank-case.

The consequence of a higher flush pressure is a more concentrated jet of oxidising gas up in the combustion chamber compared with a lower flush pressure.

The result is more efficient combustion and less flushing losses.

A = Low crankcase pressure

B = High crankcase pressure

#### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 Crankshaft and crankcase **7**



The remaining flushing losses and other exhaust residue are converted in the E-TECH engine's catalytic converter muffler.

The metallic lightweight catalytic converter is designed around a special baffle plate of metal in the muffler.

The plate is covered with a catalytic agent and fitted with specific thermodynamic conditional channels and guides to give the best gas flow over the catalytic agent.

# Hydraulic unit 8.

Contents Hydraulic pump, Dismantling, assembling, model 250PS 76 Test running, model 250PS 778

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **B** Hydraulic unit

Hydraulics is an ideal solution to get a long and flexible power transmission between the engine and the cutting equipment.

This has been utilised on model 235P, which is used for, e.g. tree pruning and on the pruning saw model 250PS. The power from the combustion engine is transferred to the hydraulic pump via a centrifugal clutch and from the pump to the cutting equipment via a flexible hydraulic hose.

#### NOTE!

The hydraulic pressure is high, and demands immense care if leakage around connections has occurred. Replace the gaskets and tighten the connections immediately once a leakage has been discovered.

Cleanliness is extremely important with all work on the hydraulic system.



### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 Hydraulic unit **8**



Remove the engine adapter.

Lift up the hydraulic pump together with

the cover disc from the tank.

Remove all 8 screws holding the engine adapter on the hydraulic pump.

Start with the 4 inner screws.

Note how the pins on the adapter are placed (half past 1 resp. half past 7).

Lift up the hydraulic pump together with the cover disc from the tank.

Check that the rubber collar is undamaged and keeps tight. Otherwise fit a new collar.





Remove the axle from the pump housing. Replace damaged parts and assemble in the reverse order as set out for dismantling. Unscrew the hose from the hydraulic pump and remove the 6 screws holding the cover (A).

Remove the cover and both impellers (B).

#### NOTE!

Note on which axle and in what pump chamber in the cover that resp. impellers are fitted so that these are given the same placement in subsequent assembly. Remove the gear (C) and bearing sleeve (D).

Remove the key (E) from the pump axle (F).

Heat the pump housing (G) using a hot air gun to approx.  $120^{\circ}$ C. Now press out the axle with the bearing from the pump housing.

Use a suitable punch and hammer to knock the sealing ring out of the pump housing.

Replace damaged parts and assemble in the reverse order as set out for dismantling.

### For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **Hydraulic unit**



Check that the pump chambers are free from damage.

If this is not the case, replace both impellers and cover.

Assemble all remaining parts in the reverse order as set out for dismantling.

Check that the pump chambers in the cover are not scratched. If this is not the case, the cover and both impellers must be replaced.

The impellers must not show signs of cracking or other damage. Replace both impellers at the same time if necessary.

Assemble all remaining parts in the reverse order as set out for dismantling.

Make sure all hose connections are tight.

Fill with hydraulic oil to the correct level. Use oil of the quality ISO VG32 at air

temperatures under +20°C and ISO VG45

The oil's flash point should exceed  $+160^{\circ}$ C. The oil must not be

Check the oil level when the machine has been run for 2-3 min and fill with more oil so that the level lies between min. and max. on the

at air temperatures above +20°C.

electrically conductive.

oil dipstick if necessary.



Fill with hydraulic oil to the correct level.





NOTE!

#### **Test running**

Fit the test running hose no. 502 42 45-01 on the upper and lower quick couplings. Make sure the couplings make correctly. Start the engine and test the pruning saw.



#### WARNING!

Never start the pruning saw without the hydraulic oil tank and hoses fitted. If the tank is not fitted the couplings can become loose and cause personal injury.

#### **Attachments**





#### Contents

Hedge trimmer, model 18H	80
Blower, model 225HBV	82
Pruning saw, model 250PS	83
Chain sprocket and bar	85
Hydraulic motor	86







#### Assembly

Fit a new bearing on the clutch axle.

Lubricate the bearings with grease and fit them on the axle so that the bearings' open faces are opposite each other.

Press in the bearings together with the clutch axle into the gearbox by using a suitable punch and hammer. Tighten both screws that prevent the bearings from sliding out of their seatings.

Check the wear on the clutch drum before assembling. The diameter must not exceed 62.5 mm.

Fit the clutch drum on the axle and assemble the remaining parts in the reverse order as set out for dismantling.

Do not forget to grease the gear.

#### **Blower** Model 225HBV

The blower unit consists of a radial fan that rotates in a fan housing.

To just clean, fold up the cover (A). Slide a screwdriver in at (B) to move the locking

If the impeller is to be replaced the 11 screws and fan housing cover must be removed.





#### For Husqvarna Parts Call 606-678-9623 or 606-561-4983

#### **Attachments**





Α

Check that the chain groove in the bar and gear are in line. If this is not the case the wear on the sprocket, chain and bar will be abnormally large and the service life short.

Replace the bar mounting and/or the chain sprocket to rectify the fault.

Check that the bar's guides are on the same level. If this is not the case the saw cut will be askew and wear on the chain uneven. If so, replace the bar and chain.

Blow out the oil channel (A) in the bar with compressed air to ensure the nose wheel and chain receive sufficient lubrication.



0 0

#### Hydraulic motor Dismantling

Observe the greatest degree of cleanli-

ness when dismantling and assembling the hydraulic motor. The smallest impurities can cause downtime.

#### NOTE!

To obtain the maximum motor power it is important that the cover and gear are in the same position after servicing as before.

1. Make a mark on the motor housing and cover.

#### Hydraulic motor Dismantling

Observe the greatest degree of cleanliness when dismantling and assembling the hydraulic motor. The smallest impurities can cause downtime.

NOTE!

To obtain the maximum motor power it is important that the cover and gear are in the same position after servicing as before.

1. Make a mark across the joint between the motor housing and cover so that the parts have the same relative positions after servicing.



	1. Place the seal retainer on the axle with the flange facing the bearing.	<ol> <li>Place the seal retainer (C) on the axle with the flange facing the bear- ing.</li> </ol>
	<ol> <li>Slide the sealing ring (A) into position.</li> <li>Press down the O-ring (B) correctly in the gap between the sealing ring and the seal retainer.</li> </ol>	<ol> <li>Lubricate the axle with a few drops of oil and slide the sealing ring (A) care- fully over the axle's sealing surface.</li> <li>Press down the O-ring (B) between the sealing ring and the seal retainer. Use your thumb nail!</li> <li>NOTE! Check that the O-ring sits correctly in the gap between the sealing ring and retainer.</li> </ol>
	<ol> <li>Place the cover plate, with the cham- fer facing inwards, in position on the motor housing.</li> </ol>	4. Place the cover plate in position in the motor housing. The chamfer should face inwards to facilitate assembly. <b>NOTE!</b> Motors manufactured before the middle of 1995 (no "D" marking on the cover) have a metal disc placed on the outside of the sealing ring. This disc must <i>not</i> be fitted when the above mentioned seal type is used.
A A A A A A A A A A A A A A A A A A A	<ul> <li>5. Fit the axle with the bearing fitted in the motor housing.</li> <li>Check that the axle can rotate freely.</li> </ul>	5. Press in the axle with the bearing fitted in the motor housing. Hold the housing in your hand and press in the bearing using sleeve no. 502 52 24-01. Check that the axle can rotate freely.





In connection with the introduction of the hydraulic seal type "D" the relief valve must be replaced with one that has a

This valve has order no. 503 83 17-01.

Use tool no. 502 42 50-01 to replace the valve.



6. Check that the O-ring, which seals between the cover and the motor housing, is undamaged.

Fit the key on the axle.

Place the gear and impeller in position in the cover so that they come in the same position relative to each other as before servicing.

Fit the cover on the motor housing. Rotate the axle so that the key enters the gear.

Make sure the marking on the cover aligns with the mark on the motor housing.

Tighten the screws crosswise and diagonally.

In connection with the introduction of the hydraulic seal type "D" the relief valve must be replaced with one that has a higher opening pressure (40 bar).

This valve has order no. 503 83 17-01.

Use tool no. 502 42 50-01 to replace the valve.



The hydraulic motors with the designation "E" punched on the cover have a slightly different seal mounting compared with type "D".

On these motors the hydraulic seal is the same as on the "D" type, but is fitted directly in the motor housing without the seal holder (C).

The new mounting, type "E", has been introduced into production from serial number 709 50 33 on the handle.



#### Contents

Angle gear/gearbox	_ 92
Centrifugal clutch	_ 93
Bearing/crankcase/vib. damper/crankshaft	_ 94
Sealing ring	_ 95
Fuel system/ignition system	_ 96
Leakage testing	_ 97
Hydraulic unit	_ 98
Attachments	_ 99
Cylinder and piston/workshop equipment	100

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10** List of tools

	Angle gear, gearbox						
Model	502 51 11-01	502 51 68-01	502 50 65-01	503 97 64-01	503 62 12-01	503 80 17-01	
265	•	•	•				
252	•		•	•			
250	•		•	•			
240/245			•	•			
225/232/235				٠			
240RBD				•		•	
122				•			
32				•			
Mondo Mega				•			
Mondo						•	
Mondo Max				•			
250PS							
235P							
225 H60/H75					•		
18H					•		
322						•	
325				•			
140B, 141B							

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 List of tools 10

	Angle gear, gearbox		Centrifugal clutch			
Model	502 52 17-01	502 52 15-01	502 52 13-01 (4 mm) 502 52 14-01 (6 mm)	502 52 16-01	505 26 79-12	502 50 49-01
265	•					
252	•	•		•	•	
250	•	•		•	•	
240/245	•	•				
225/232/235				•		
240RBD				•		
122						
32						
Mondo Mega						
Mondo						
Mondo Max						
250PS			•	•		
235P				•		
225 H60/H75						
18H				•		
322				٠		
325				٠		
140B, 141B						

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10** List of tools

	Bearing	Crankcase	Vibration damper		Crankshaft	
Model	504 90 90-01	502 51 61-01	18 mm 502 50 66-02	502 50 30-10	502 50 30-07	502 50 30-08
265	•	•				•
252		•	٠		•	
250		•	•		•	
240/245	•			•		
225/232/235						
240RBD	•					
122						
32						
Mondo Mega						
Mondo						
Mondo Max						
250PS		•	•		•	
235P						
225 H60/H75						
18H	•	•				
322						
325						
140B, 141B		•				

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 List of tools 10

	Crankshaft	Sealing ring				
Model	502 50 30-09	504 91 28-06	505 38 17-09	504 91 40-01	502 50 53-01	504 91 28-00
265	•	•	•	•	•	
252	•	•	•	•		•
250	•	•	•	•		•
240/245		•	•			
225/232/235						
240RBD						
122			٠			
32						•
Mondo Mega						•
Mondo						•
Mondo Max						•
250PS		•	•	•		•
235P		•				
225 H60/H75			•			
18H						
322						
325						
140B, 141B						

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10** List of tools

	Fuel system			Ignition system		
Model	502 50 83-01	501 60 02-02	CARB EPA <u>E-tech</u> 531 00 48-63	502 51 94-01	505 26 79-12	502 71 13-01
265	•	•				•
252	•	•				•
250	•	•				•
240/245	•	•	•			•
225/232/235	•	•	•	•		•
240RBD	•	•	•			•
122	•	•				•
32	•	•	•			•
Mondo Mega	•	•	•			•
Mondo	•	•	•			•
Mondo Max	•	•	•			•
250PS	•	•			•	•
235P	•	•	•			•
225 H60/H75	•	•	•			•
18H	•	•	•			•
322	•	•	•			•
325	•	•	•			•
140B, 141B	•	•				

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 List of tools 10

		Ignition system						
Model	502 50 06-01	502 50 06-01       502 51 34-02       531 00 48-61       531 00 48-62       502 51 49-01						
265	•	•			•	•		
252	•	•				•		
250	•	•				•		
240/245	•	•				•		
225/232/235	•	•				•		
240RBD	•	•				•		
122	٠		•	•		•		
32	•	•		•		•		
Mondo Mega	٠	•				•		
Mondo	•	•		•		•		
Mondo Max	٠	•				•		
250PS	•	•			•	•		
235P	•	•				•		
225 H60/H75	•	•				•		
18H	•	•				•		
322	•	•				•		
325	•	•				•		
140B, 141B	•	•			•	•		

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10 List of tools**

	Leakage testing			Hydraulic unit		
Model	503 84 40-01	+ 502 50 38-01	502 50 37-01	502 52 28-01	502 52 30-01	502 42 45-01
265	•	•	•			
252	•	•	•			
250	•	•	•			
240/245	•	•	•			
225/232/235	•	•	•			
240RBD	•	•	•			
122	•	•	•			
32	•	•	•			
Mondo Mega	•	•	•			
Mondo	•	•	•			
Mondo Max	•	•	•			
250PS	•	•	•	•		•
235P	•	•		•	•	
225 H60/H75	•	•	•			
18H	•	•	•			
322	•	•	•			
325	•	•	•			
140B, 141B	•	•	•			

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 List of tools 10

		Attachments						
Model	502 42 50-01	502 52 24-01	502 52 25-01	502 52 26-01	ی ای 502 52 27-01	502 52 23-01		
265								
252								
250								
240/245								
225/232/235								
240RBD								
122								
32								
Mondo Mega								
Mondo								
Mondo Max								
250PS	•	•	•			•		
235P				•	•			
225 H60/H75								
18H								
322								
325								
140B, 141B								

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10 List of tools**

		Cylinder/piston						
Model	504 91 06-05	502 54 15-01	502 50 70-01	531 00 48-65	505 38 17-05	503 26 70-01		
265		•	•		•			
	•				•			
252	•		•		•			
250 240/245	•		•		•			
	•		•		•	•		
225/232/235	•				•			
240RBD					•			
122				•	•	•		
32					•			
Mondo Mega	•		•		•	•		
Mondo	•		•		•	•		
Mondo Max	•		•		•	•		
250PS	•		•		•			
235P	•		•		•			
225 H60/H75	•		•		•	•		
18H	•		•		•	•		
322	•		•		•	•		
325	•		•		٠	•		
140B, 141B	•		•		•			

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

	Workshop equipment						
Model	7 7 7 7 504 90 00-01-04 + 502 50 22-01 = 504 90 00-06	<b>3 mm</b> 504 90 00-04	0 4 mm 504 90 00-02	<b>5</b> mm 504 90 00-03	6 mm 504 90 00-01	3/16" 502 50 57-01	
265			•				
252		•	•				
250		•	•				
240/245		•	•				
225/232/235			•				
240RBD			•				
122							
32						•	
Mondo Mega						•	
Mondo			•			•	
Mondo Max							
250PS		•	•				
235P			•				
225 H60/H75			•				
18H						•	
322			•	•			
325			•	•			
140B, 141B			•	•			

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983 **10** List of tools

	Workshop equipment						
Model	25 x 150 502 71 27-01	<b>30 x 200</b> 502 71 31-01	8 mm 502 50 22-01	10 mm 502 50 23-01	502 51 67-01	☆ 502 50 88-01	
265							
252							
250							
240/245			•				
225/232/235							
240RBD							
122							
32							
Mondo Mega							
Mondo							
Mondo Max							
250PS							
235P							
225 H60/H75							
18H							
322							
325							
140B, 141B			•	•			

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

			Workshop	equipment		
Model	☆ 502 50 87-01	₩4 502 50 86-01	502 02 61-02	Degreasing agent	502 71 14-01	502 51 03-01
265	•			٠	•	•
252	•	•		•	•	•
250	•	•		•	•	•
240/245	•	•		•	•	•
225/232/235	•			•	•	•
240RBD	•			•	•	•
122			•	•	•	•
32				•	•	•
Mondo Mega				•	•	•
Mondo				•	•	•
Mondo Max				•	•	•
250PS	•	•		•	•	
235P	•			•	•	•
225 H60/H75	•			•	•	
18H				•	•	
322	•			•	•	•
325	•			•	•	•
140B, 141B	•			•	•	

# For Husqvarna Parts Call 606-678-9623 or 606-561-4983

	Workshop	equipment			
Model	502 51 54-01	502 21 58-01	Size S: 101 64 23-48 M: 101 64 23-50 L: 101 64 23-52 XL: 101 64 23-54 XXL: 101 64 23-56		
265	•		•		
252		•	•		
250		•	•		
240/245			•		
225/232/235			•		
240RBD			•		
122			•		
32			•		
Mondo Mega			•		
Mondo			•		
Mondo Max			•		
250PS			•		
235P			•		
225 H60/H75			•		
18H			•		
322			•		
325			•	 	
140B, 141B			•		