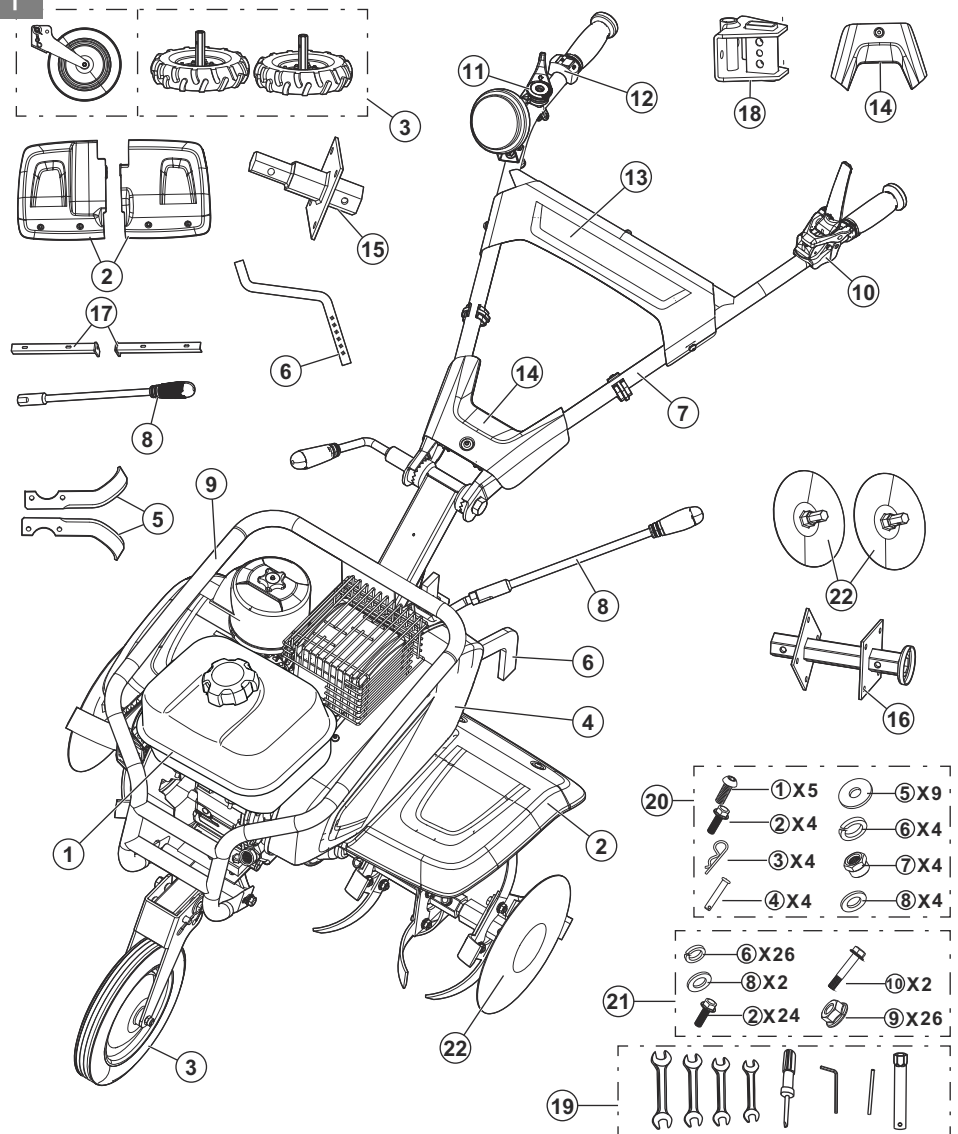


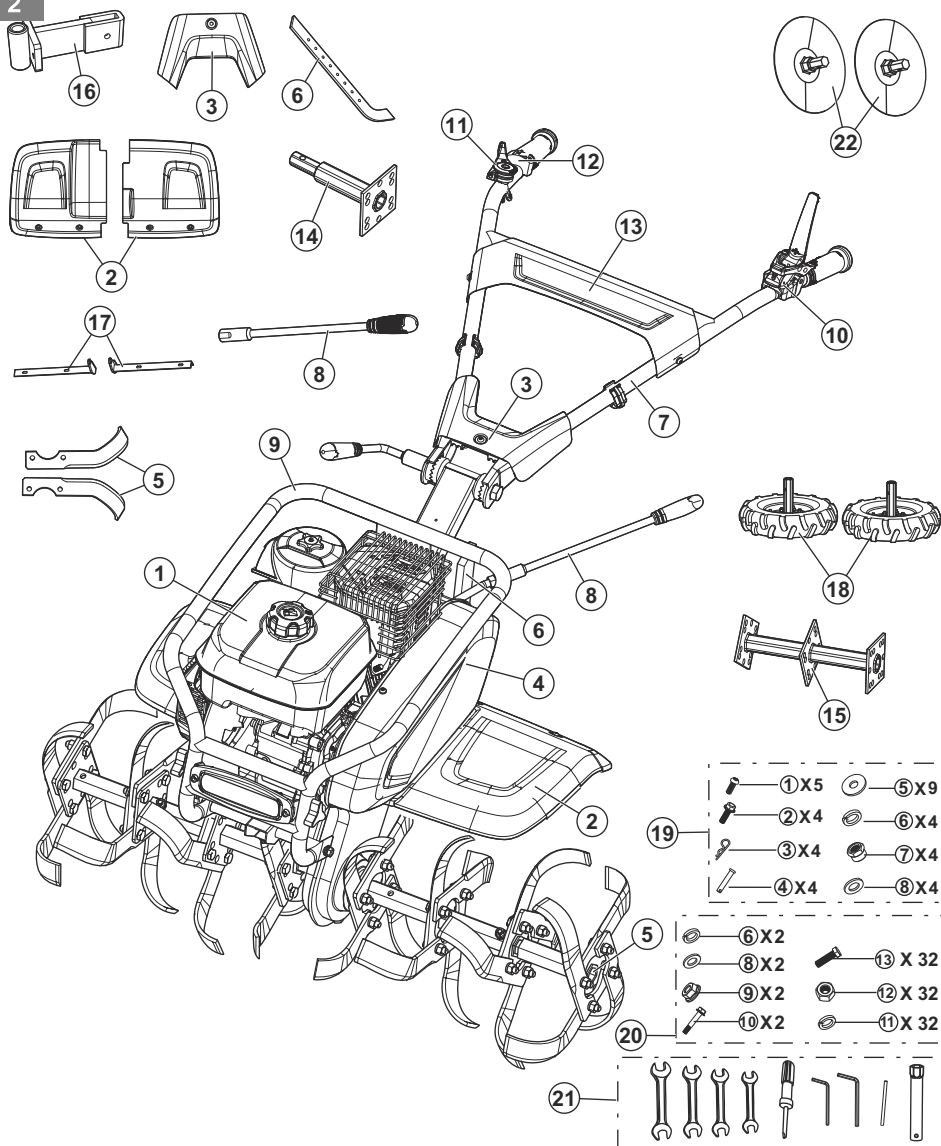


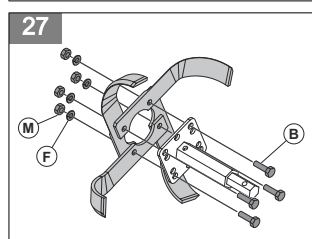
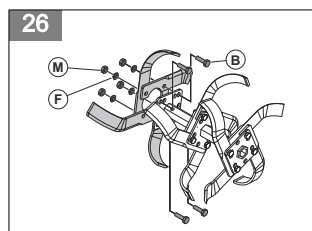
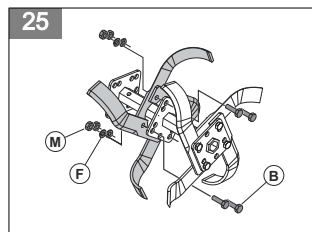
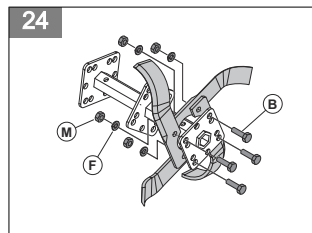
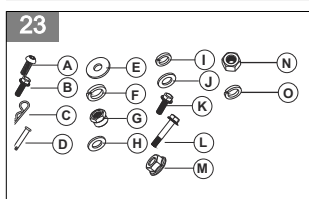
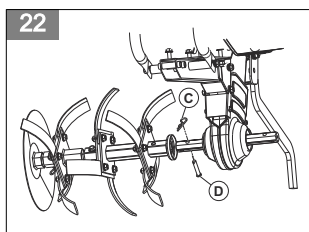
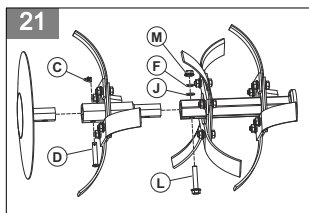
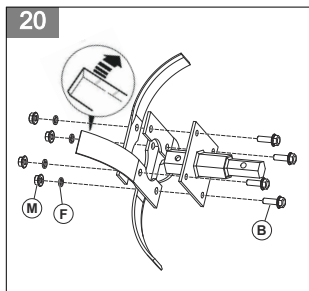
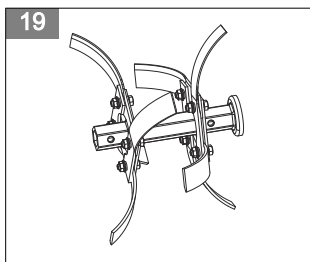
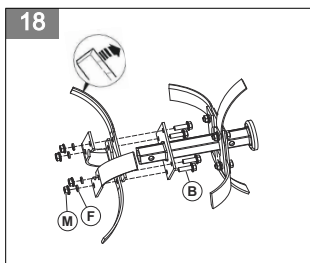
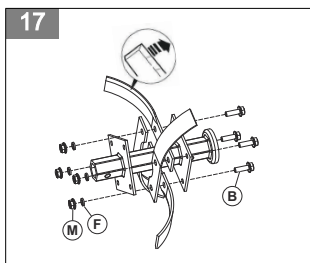
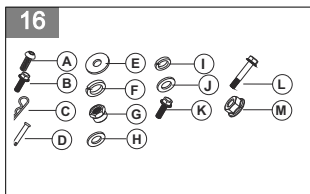
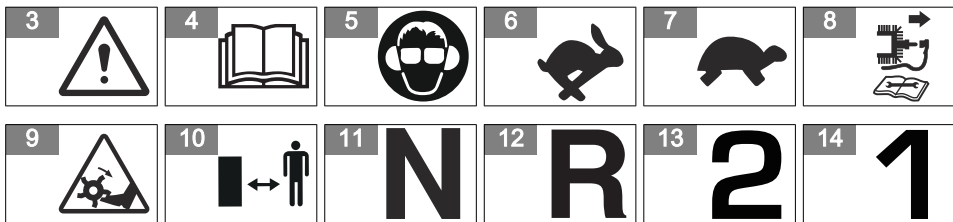
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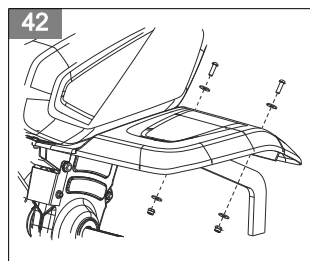
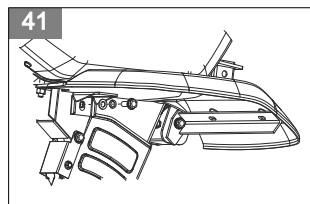
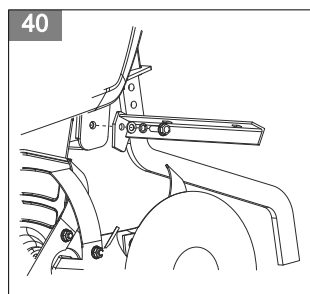
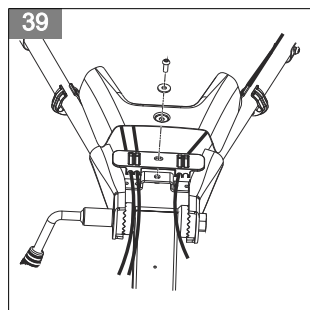
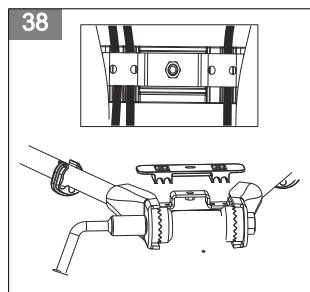
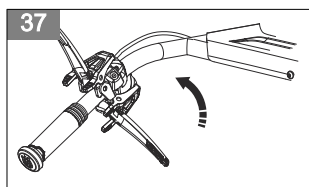
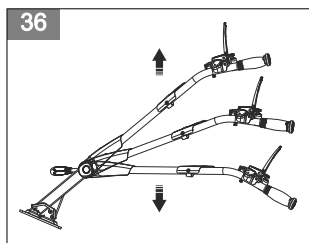
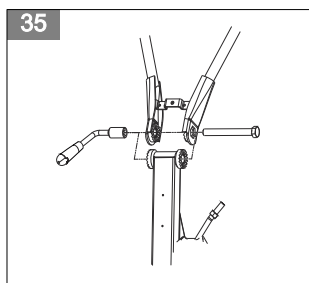
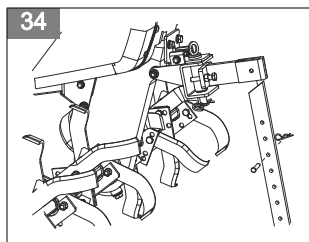
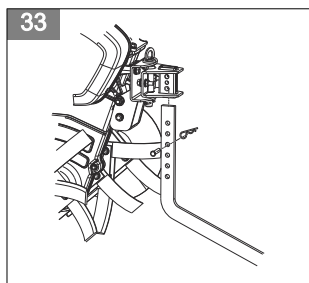
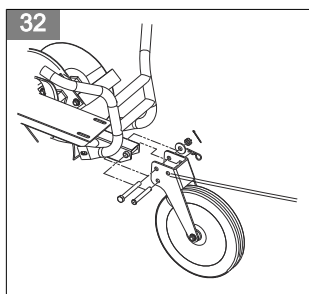
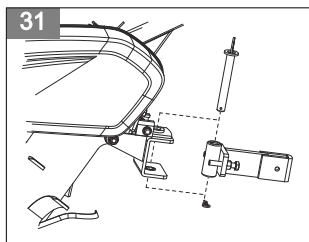
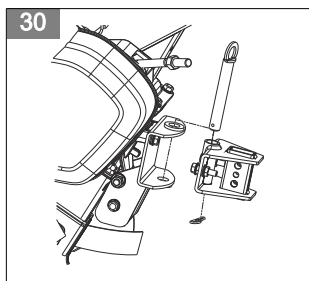
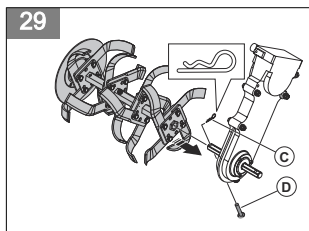
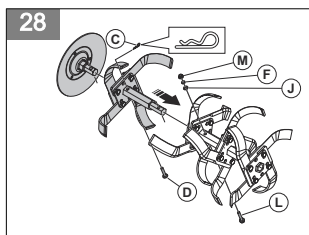


TF 230, TF 338P

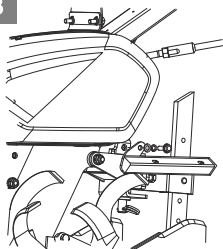




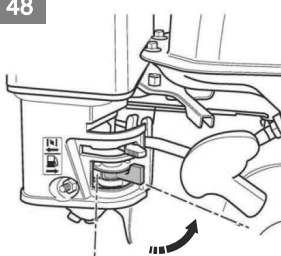




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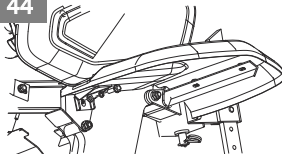
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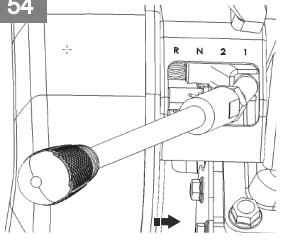
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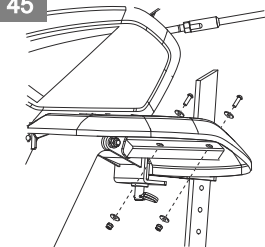
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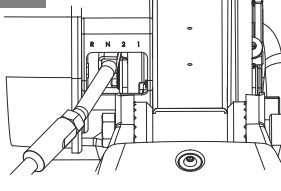
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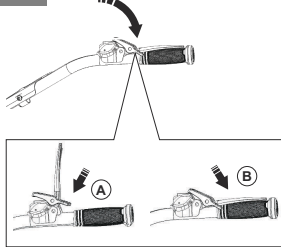
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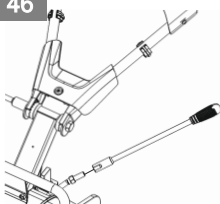
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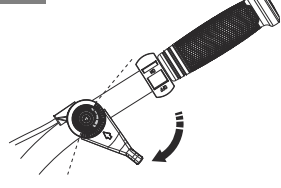
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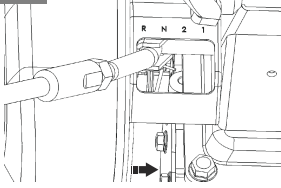
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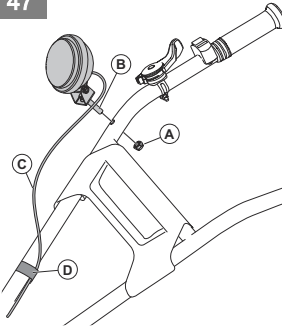
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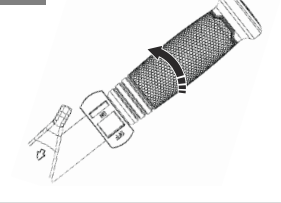
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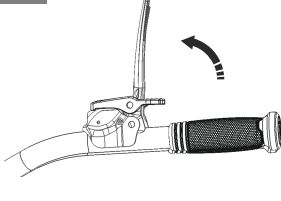
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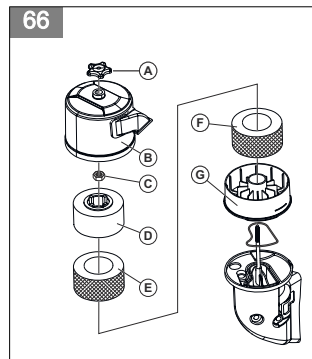
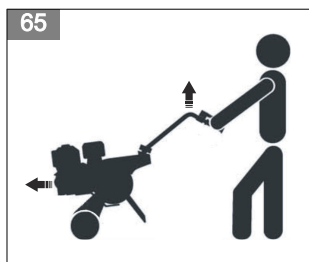
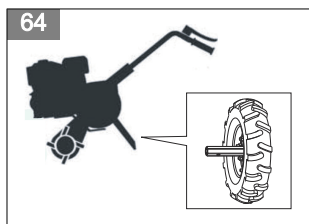
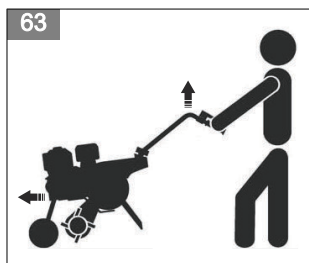
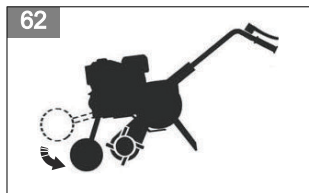
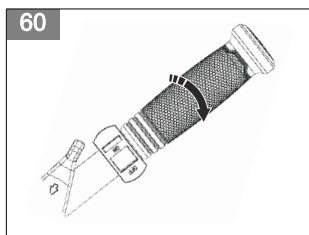
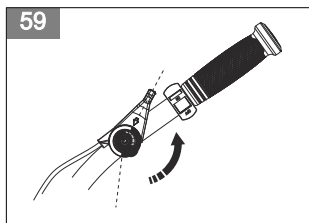
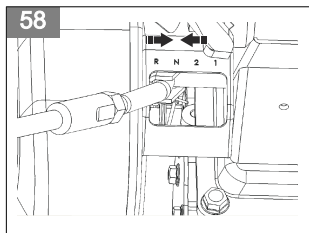


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Introduction

Product overview (TF 230)

(Fig. 1)

1. Engine
2. Tine blade cover
3. Support wheel/wheel kit (optional)
4. Belt cover
5. Tine blades
6. Drag bar
7. Handle
8. Gear lever
9. Bumper
10. Clutch control
11. Power switch

12. Throttle control
13. Top cover
14. Cable cover
15. Tine blade holder (secondary)
16. Tine blade holder (primary)
17. Tine cover bracket
18. Connector joint
19. Tool bag
20. Hardware bag
21. Hardware bag (for tine blades only)
22. Blade protection

Product overview (TF 338P)

(Fig. 2)

1. Engine
2. Tine blade cover
3. Cable cover
4. Belt cover
5. Tine blades
6. Drag bar
7. Handle
8. Gear lever
9. Bumper
10. Clutch control
11. Throttle control
12. Power switch
13. Top cover
14. Tine blade holder (secondary)
15. Tine blade holder (primary)
16. Connector joint
17. Tine cover bracket
18. Wheel kit
19. Hardware bag
20. Hardware bag (for tine blades only)
21. Tool bag
22. Blade protection

Symbols on the product

- (Fig. 3) **WARNING:** Be careful and use the product correctly. This product can cause serious injury or death to the operator or others.
- (Fig. 4) Read the operator's manual carefully and make sure that you understand the instructions before use.
- (Fig. 5) Use approved hearing protection and approved eye protection.
- (Fig. 6) Fast.
- (Fig. 7) Slow.
- (Fig. 8) Stop the engine and remove the ignition cable before repairs or maintenance.
- (Fig. 9) Warning: Rotating parts. Keep hands and feet clear.
- (Fig. 10) Keep your distance!
- (Fig. 11) Neutral gear.

- (Fig. 12) Reverse gear.
- (Fig. 13) Fast forward.
- (Fig. 14) Slow forward.
- (Fig. 15) LED ON/OFF button. (TF 338P)

Note: Other symbols/decals on the product refer to certification requirements for other commercial areas.

Type plate

Husqvarna		Prod. year
Serial No.		
Article no.		
Model		
Working width		
Working depth		
Gear shifting		
Engine displacement		
Oil quality		
Engine oil capacity		
Fuel tank capacity		
Gear box oil capacity		
Nominal power		
Net weight		
Fuel (octan/octan)		
HUSQVARNA AB SE-561 82 HUSKVARNA SWEDEN		
 		

Safety

Safety definitions

Warnings, cautions, and notes are used to point out particularly important parts of the manual.



WARNING: Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



CAUTION: Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

Note: Used to give more information that is necessary in a given situation.

General safety instructions



WARNING: Read and understand the warning instructions that follow before you use the product.

- Read all the instructions in this operator's manual and on the product before operation. Make sure that you understand and obey the instructions.
- If you have problems or questions about the product, please speak to your Husqvarna dealer for more information.
- The operator is responsible for any unsafe situations or risks that people and property are exposed to.
- This product produces an electromagnetic field during operation. This field may under some

circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this product.

- We reserve the right to change specifications and designs without prior notice so as to implement improvements. Note that no legal claims are valid on the basis of information in this manual. Use only genuine parts for repairs. The warranty is not valid if non genuine parts are used.

Safety instructions for operation



WARNING: Read and understand the warning instructions that follow before you use the product.

- Only use the product for which it is intended, tilling the ground. Do not use the product for other tasks. This can be dangerous or cause damage.
- Learn how to use the product and its functions safely and learn to how to stop quickly. Also learn the safety decals.
- Never operate the product before the working area is clear and you have a firm foothold. Look out for obstacles with unexpected movement. Take great care when you operate in slopes.
- Only allow the product to be used by adults who are familiar with its use.
- Never allow children or other persons not trained in the use of the product to use or do servicing. Local laws may regulate the age of the user.
- Keep unauthorized persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 20 m. Stop the product immediately if anyone approaches.

- Never use the product if you are tired, if you have consumed alcohol, if you are taking other drugs or medication that can affect your vision, judgement or coordination.
- Pay particular attention on hard ground.
- The product has the tendency to be much less stable on cultivated ground.
- Never use the product when you are barefoot. Always wear protective shoes or protective boots, preferably with steel toes. Never wear loose-fitting clothing, jewelry or similar that can get caught in moving parts. Use hearing protection to minimize the risk of hearing impairment.
- Never use the product itself to transport people.
- Compliance with and strict adherence to the conditions of operation, servicing and repair as specified by the manufacturer also constitute essential elements of the intended use.
- Stop the engine when the product is not in use.
- Walk with the product, do not run.
- Pay close attention when pulling the product towards you or reversing the direction of rotation.
- Keep a safe distance from the rotating blades, set by the length of the steering column. Keep your hands and feet away from the rotating blades.
- The engine and the exhaust system become very hot during operation. Risk of burn injuries if touched.
- Only use the product in daylight or in other well-lit conditions.
- Do not use the product on ground that slopes more than 20 °.
- Operate across slopes, not up or down.
- Under no circumstances should you modify the original design of the product without approval from the manufacturer. Always use original spare parts. Not approved modifications and/or accessories may lead to serious injury or death to the user or others. The warranty is not valid if non genuine parts are used.
- Stop the engine immediately if the following occurs: Excessive vibration and / or noise, mechanical jam preventing engine from turning, difficulties to engage or disengage the clutch, a collision with a foreign object or deterioration of the engine stop cable.
- If the engine halt cable is severed, use the starter control to stop the engine. Allow the product to cool down. Disconnect the spark plug cap from the spark plug. Check that the product is not damaged. If the product is damaged, speak to an approved service workshop for repair.
- Always exercise care and use your common sense. Avoid all situations which you consider to be beyond your capability. If you still feel uncertain

about operating procedures after reading these instructions, you should consult an expert before continuing. Contact an authorised service workshop.

- Do not modify safety equipment. Check regularly to be sure it works properly.
- Inappropriate assembly of this product could cause severe injuries. Ensure that you follow all the instructions carefully.

Fuel safety



WARNING: Read and understand the warning instructions that follow before you use the product.

- Fuel is highly inflammable. Exercise care and refuel outdoors. Fire, open flame and smoking are prohibited.
- Bear in mind the risk of fire, explosion and inhaling fumes. If you spill fuel on yourself or your clothes, change your clothes.
- The engine emits carbon monoxide, which is a colourless, poisonous gas. Do not use the machine in enclosed spaces.

Safety instructions for maintenance



WARNING: Read and understand the warning instructions that follow before you use the product.

- Always stop the engine before repair, cleaning, maintenance work or when changing the tools on the product. Never make adjustments with the product running.
- Regular maintenance is essential for safety and to maintain the levels of performance.
- Wear heavy-duty gloves when changing the tools on the product.
- Replace the rotating blade in complete sets to keep them balanced. Always use original spare parts.
- Check that nuts and screws are tight.
- Never use a product that has a faulty muffler. Contact an authorized service workshop.
- For your own safety, do not alter the characteristics of the product. Do not change the engine speed settings and do not run the engine at excess speed.
- Always use original spare parts.
- When the service life of this product has been served and it is no longer used it should be returned to the dealer or to an applicable station for recycling.
- Make sure to not cut the cables/wires or scratch the machine when cutting the edges of the case.

Assembly

Introduction



WARNING: Read and understand the safety chapter before you assemble the product.

To assemble the tine blades (TF 230)

Refer to the illustration for an overview of the bolts, screws, nuts and washers that are necessary to assemble the tine blades.(Fig. 16)

- Assemble the tine blades on the right side as shown in the illustration.

(Fig. 17) (Fig. 18) (Fig. 19) (Fig. 20) (Fig. 21) (Fig. 22)
- Assemble the tine blades on the left side in the same way and with the sharp edges in the same direction.

To assemble the tine blades (TF 338P)

Refer to the illustration for an overview of the bolts, screws, nuts and washers that is necessary to assemble the tine blades.(Fig. 23)

- Assemble the tine blades on the right side as shown in the illustration.

(Fig. 24) (Fig. 25) (Fig. 26) (Fig. 27) (Fig. 28) (Fig. 29)
- Assemble the tine blades on the left side in the same way and with the sharp edges in the same direction.

To assemble the product

1. Install the connection joint.
 - a) For TF 230: (Fig. 30)
 - b) For TF 338P: (Fig. 31)
2. For TF 230, install the support wheel. (Fig. 32)
3. Install the drag bar.
 - a) For TF 230: (Fig. 33)
 - b) For TF 338P: (Fig. 34)

4. Install the handle. (Fig. 35)
5. Adjust the height of the handle and tighten the knobs. (Fig. 36)
6. Turn the clutch control to the correct side and attach the bolt. (Fig. 37)
7. Install the cable cover.
 - a) Install the wire correctly.
 - b) Attach the rubber holder. (Fig. 38)
 - c) Install the cable cover and tighten the screw. (Fig. 39)
8. Install the tine cover (TF 230).



CAUTION: Attach the 4 bolts and nuts before your tighten them fully.

- a) (Fig. 40)
 - b) (Fig. 41)
 - c) (Fig. 42)
9. Install the tine cover (TF 338P):
 - a) (Fig. 43)
 - b) (Fig. 44)
 - c) (Fig. 45)
 10. Install the gear lever. (Fig. 46)
 11. Tighten all bolts and nuts again.



CAUTION: Do not disassemble the product. Speak to an approved Husqvarna servicing dealer.

To assemble the LED light (TF 230)

1. Remove the nut (A) from the LED light bracket.
2. Install the LED light as shown in the picture and tighten the nut.
3. Use the clamp (D) to attach the LED cable (C). (Fig. 47)

Operation

Introduction



WARNING: Read and understand the safety chapter before you use the product.

To do before you operate

- Do an inspection of the work area. Remove all loose objects that can eject from the product and cause serious injury to the operator or others. Such items include stones, glass or steel wire.
- Do a check of the engine oil level and fill engine oil if it is necessary.
- Do a check of the gearbox oil level and fill oil if it is necessary.

- Do a check of the fuel level and fill fuel if it is necessary.
- Do an overhaul of the product.
 - a) Replace worn or damaged parts.
 - b) Do a check for fuel leaks.
 - c) Make sure that all guards and covers are installed correctly.
 - d) Do a check of all nuts and screws.
 - e) Make sure that the electrical wires are not damaged.
 - f) Do a check of LED light.
- Apply oil to the air filter.

To fill fuel



CAUTION: Do not use gasoline with an octane number less than 90 RON (87 AKI). This can cause damage to the product.

1. Stop the engine and let the product become cool.
2. Put the product in an area with good airflow.
3. Fill the fuel tank.



CAUTION: Make sure that there is not too much fuel in the fuel tank. The fuel expands when it becomes hot.

4. Tighten the fuel tank cap carefully to prevent the risk of fire.
5. Clean the product and the area around the product from fuel spillage.
6. Move the product 3 m/10 ft or more away from the refueling area and the fuel source before you start the engine.

To start the product

1. Open the fuel valve. (Fig. 48)
2. Open the choke with the choke control. (Fig. 49)
3. Put the gear lever in the neutral gear position. (Fig. 50)
4. Apply full throttle with the throttle control. (Fig. 51)
5. Set the ON/OFF switch to ON. (Fig. 52)
6. Pull the starter rope handle.



WARNING: Make sure that no person or animal is in the safety zone of 20 m when the product starts.

7. When the product starts, set the choke control to the choke position. (Fig. 53)

To operate the product forward

1. Use the gear lever to select drive speed. Position 1 is slow speed and position 2 is fast speed. (Fig. 54)
2. Push down the throttle lock on the handle.

3. Push the clutch lever (A) in the direction of the handle to make the tine blades rotate. (Fig. 55)
4. Release the clutch lever (B) to make the tine blades stop.

To operate the product rearward



WARNING: Before you move the product rearward, you must release the clutch lever to prevent injury.

1. Make sure that no obstacles are behind the product.
2. Release the clutch lever.
3. Decrease the engine speed.
4. Put the gear lever in the reverse gear position. (Fig. 56)
5. Push down the throttle lock on the handle.
6. Push the clutch lever (A) in the direction of the handle to make the tine blades rotate. (Fig. 55)
7. Release the clutch lever (B) to make the tine blades stop.

To stop the product

1. Release the clutch lever. (Fig. 57)
2. Put the gear lever in the N position. (Fig. 58)
3. Set the throttle control to the MIN. position. (Fig. 59)
4. Set the ON/OFF switch to OFF. (Fig. 60)
5. Close the fuel valve. (Fig. 61)

To move the product with the support wheels (TF 230)

1. Stop the engine. Refer to *To stop the product on page 12*.
2. Fold the support wheels down. (Fig. 62)
3. Set the handlebars in the low position.
4. Lift the tine blades from the ground with the handlebars. (Fig. 63)

To move the product with the wheel kit

1. Stop the engine. Refer to *To stop the product on page 12*.
2. Replace the tine blades for the wheels. (Fig. 64)
3. Lift the drag bar from the ground with the handlebar. (Fig. 65)

To operate the LED light

1. Make sure that if the LED light plug is correctly connected to the engine.
2. Make sure that the LED light is installed in the correct angle, and tighten the bolt.
3. Start the engine. Refer to *To start the product on page 12*.

4. Set the LED light to On.
5. Do a check of the LED light. If the LED light is not sufficient, speak to an approved Husqvarna servicing dealer.



WARNING: Put the LED light to Off position before you set the product to Off.

Maintenance

Introduction



WARNING: Read and understand the safety chapter before you do maintenance on the product.

Maintenance schedule

* =Clean at a more regular interval if the product is used in conditions with much dust.

** =Maintenance is only necessary if operation problems occur. Speak to an approved servicing dealer.

Maintenance	Daily maintenance before operation	Each month or 20 hours	Each 3 months or 50 hours	Each 6 months or 100 hours	Each year or 300 hours
Clean the product.	X				
Make sure that all nuts and screws are fully tightened and not damaged.	X				
Clean the air filter and check oil level. Replace it if it is necessary.	X				
Do a check of the engine oil level.	X				
Do a check of the gearbox oil level.	X				
Make sure that there is no leakage of fuel, engine oil or lubrication.	X				
Do a check of the fuel level.	X				
If there is too much vibration in the product, do a check of the cause.	X				
Replace the oil and lubrication of the engine and the gearbox.		X		X	
Clean the fuel filter and the area around the fuel filter.				X	X**
Clean the spark plug and the spark plug cap.				X	
Replace the spark plug.					X
Do a check and adjust the play of the engine valves.					X**
Clean the combustion chamber.					X**
Do a check of the fuel circuit.					X**

To do a check of the air filter



CAUTION: Replace the air filter if it cannot be fully cleaned or if it is damaged. Do not operate the product if the air filter is damaged. This can cause damage to the engine.



CAUTION: Make sure that no unwanted particles go into the air duct that is connected to the carburetor.

1. Remove the star nut (A), the air filter cover (B), the wing nut (C), the foam filter holder (D), the foam filters (E) and (F), the oil cup (G).

2. Examine the air filter and the oil cup for dirt and damage.
3. Clean the air filter and the oil cup if it is necessary. Do the steps that follow:
 - a) Clean the foam filter with warm water and soap.
 - b) Let the foam filter become dry.
 - c) Drain the oil from the oil cup.
 - d) Let the oil cup become dry.
 - e) Put the foam filter in engine oil. Rub the foam filter to supply the engine oil equally across the foam filter.
 - f) Compress the foam filter to remove unwanted oil from the foam filter.
 - g) Add approximately 100 ml engine oil to the oil cup.
4. Clean the area around the air filter and the air filter cover. Make sure that no unwanted particles go into the air duct that is connected to the carburetor.
5. Install the air filter in the opposite sequence. (Fig. 66)

Troubleshooting

Problem	Possible cause	Solution
The engine does not start.	The power switch is set to Off.	Set the power switch to On.
	Low oil level.	Fill oil to correct level.
	The fuel valve is set to Off.	Set the fuel valve to On.
	Out of fuel.	Fill fuel.
	Fuel cannot flow into carburetor.	Push the safety button, set the carburetor switch and the fuel valve to On.
	No ignition.	Replace the spark plug.
The belt cannot be separated or connected.	The clutch handle does not work.	Replace the clutch handle.
	The clutch cable is damaged.	Replace the clutch cable.
	Belt slippage.	Replace the belt.
Unusual noise from the gearbox.	Low oil level.	Fill oil to correct level.
Oil leakage on the main shaft.	The oil seal is damaged on the main shaft.	Replace the oil seal.
Oil leakage at sealing plate.	Loose bolts on the sealing plate.	Tighten bolts.
	The O-ring is damaged.	Replace the O-ring.
Oil leakage at gear lever.	The oil seal is damaged.	Replace the oil seal.
Oil leakage at output shaft.	The oil seal is damaged.	Replace the oil seal.
	There is too much clearance between the output shaft and the oil seal.	Speak to an approved Husqvarna servicing dealer.
The gearbox does not operate smoothly.	The bearing is damaged.	Replace the bearing.
The output shaft does not rotate.	Belt slippage.	Replace the belt.
	The chain is damaged.	Replace the chain.
The LED light does not work.	The plug is not correctly connected.	Connect the plug properly.
	The LED switch and/or cable is damaged.	Replace the LED light.

Problem	Possible cause	Solution
The LED light is not sufficient.	The LED light is damaged.	Replace the LED light.
Blades break.	Hit hard objects such as stones and bricks during use.	Replace the blades.
Blades beat during operation.	The tine blades are installed in the incorrect direction.	Change the direction of the tine blades.
The product does not stop when the power switch is set to Off.	The power switch is damaged.	Replace the power switch.
Control cables break.	Damage from long-term use.	Replace the cable.
Unusal noise from tine blades.	Loose bolts.	Tighten the bolts.

Transportation and storage

- For transportation shorter distances, refer to *To move the product with the support wheels (TF 230) on page 12* and *To move the product with the wheel kit on page 12*.
- Let the product become cool before you put it in storage.
- Always use approved containers for storage and transportation of fuel.
- Keep the product in a dry and frost-free area.
- Make sure that there are no leaks or fumes from the product. Sparks or open flames, for example from electrical devices or boilers, can start a fire.
- Put a cover on the product and safely attach the product during transportation to prevent damage and accidents. Use an approved vehicle for transportation of the product.
- Do not lift the product.
- Be careful when you move the product on or off a vehicle for transportation. Use an approved ramp.

Technical data

	TF 230	TF 338P
Working width, mm	780	950
Working depth, mm	150-300	150-300
Engine	WM168FB/P	WM170F/P
Fuel	Petrol	Petrol
Fuel tank capacity, l	3.2	4.2
Engine oil capacity, l	0.6	0.6
Cylinder displacement, cm ³	196	212
Rated power kW/hp @ rpm	3.5/4.6 @ 3100	3.8/5.1 @ 3400
Gears	R, N, 2, 1	R, N, 2, 1
Oil capacity gearbox, l	0.95	1.1

	TF 230	TF 338P
Oil quality of engine and gearbox	SAE 10W-30/SAE 10W-40 SF min	SAE 10W-30/SAE 10W-40 SF min
Gross weight, kg	87	114
Net weight, kg	73.5	99
Package dimensions, mm	845x480x780	860x490x860
Sound power level, guaranteed L _{WA} dB (A)	95	96



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Original instructions



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