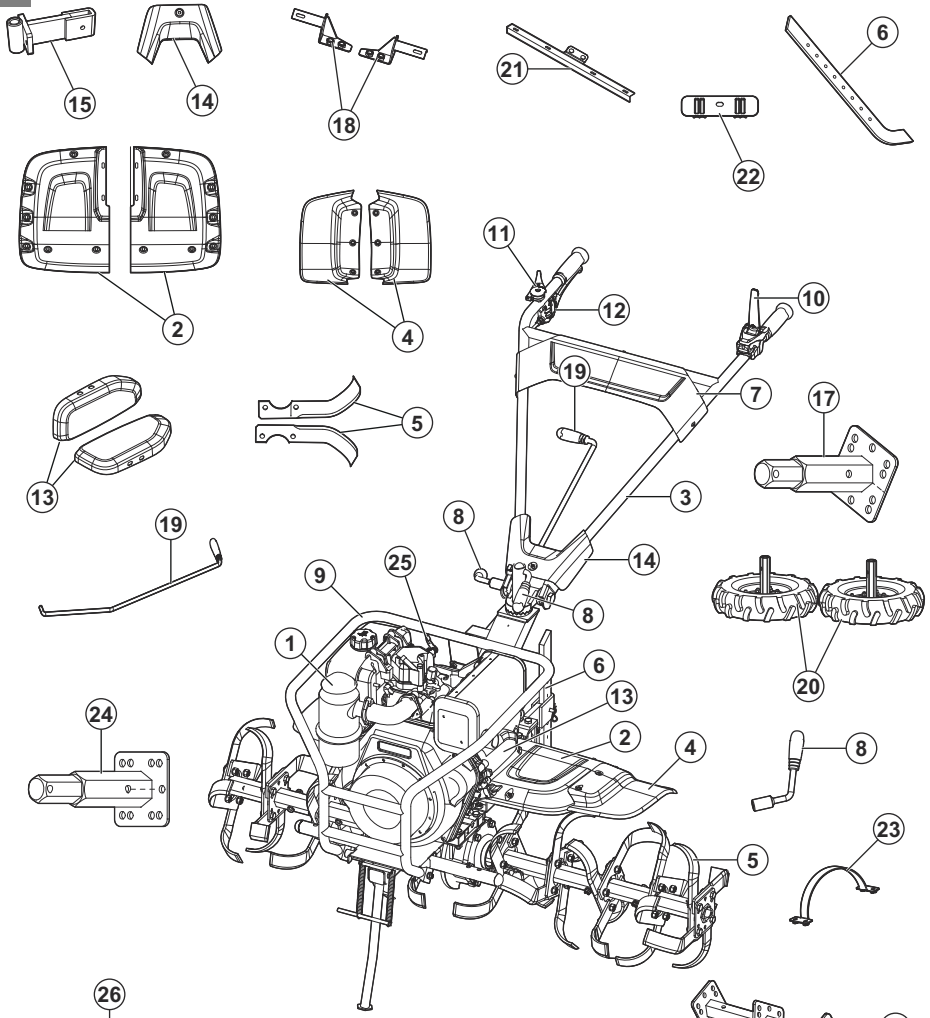




Husqvarna[®]



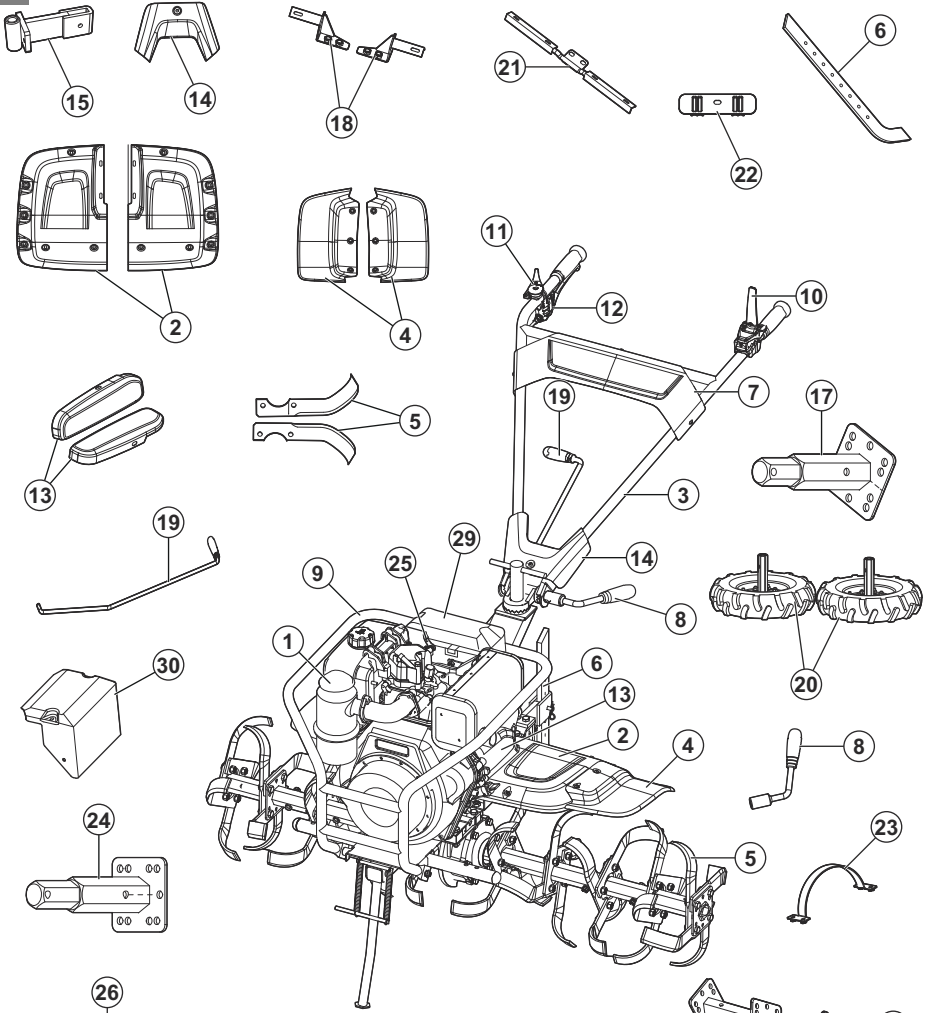
TF 544+, TF 545D+, TF 545DE+





















- A X17
- B X4
- C X4
- D X4
- E X23
- F X6
- G X4
- H X2
- I X16
- J X10
- K X2
- L X6








- 27
- J X4
 - M X4
 - N X4
 - O X4
 - P X40
 - Q X40
 - R X40

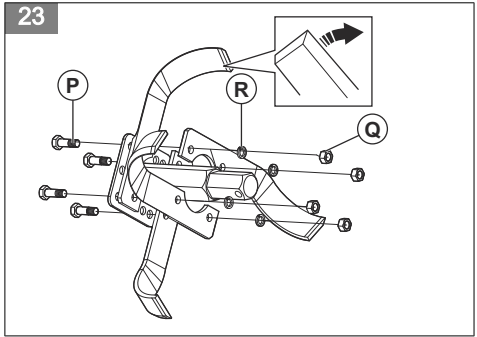
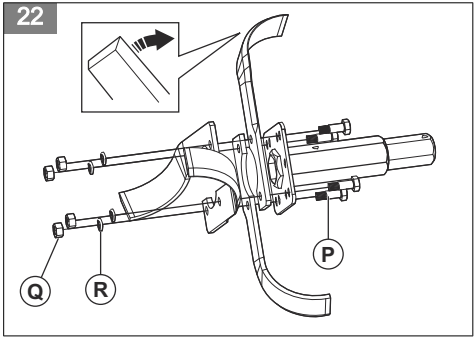
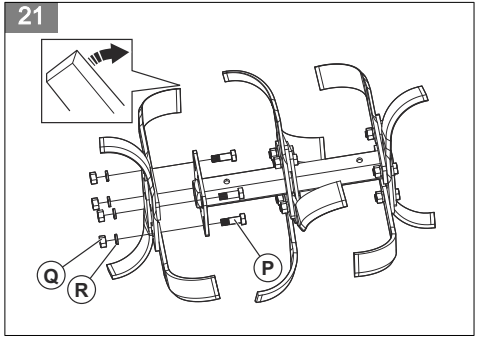
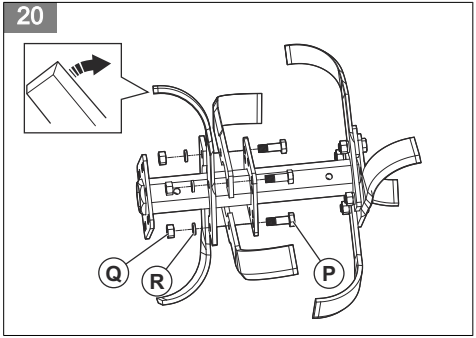
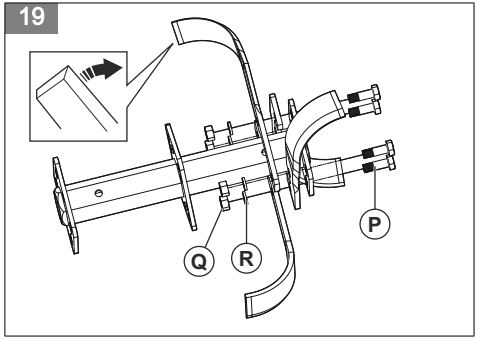
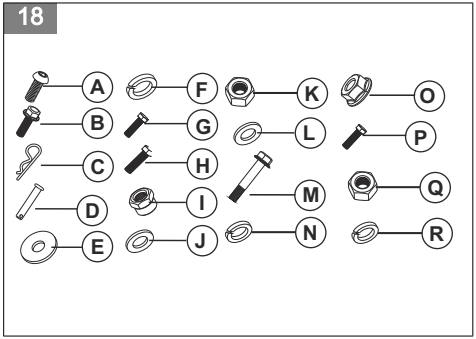
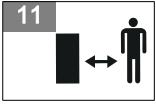
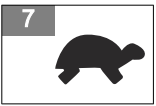
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- Wrench
 - Wrench
 - Wrench
 - Wrench
 - Screwdriver
 - Hex key
 - Hex key



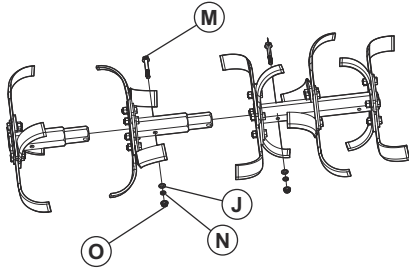
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-  B X6
-  C X4
-  D X4
-  E X25
-  F X6
-  G X2
-  H X4
-  I X16
-  J X10
-  K X2
-  L X6

-  M X4
-  N X4
-  O X4
-  P X40
-  Q X40
-  R X40

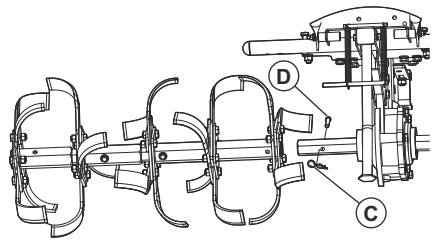
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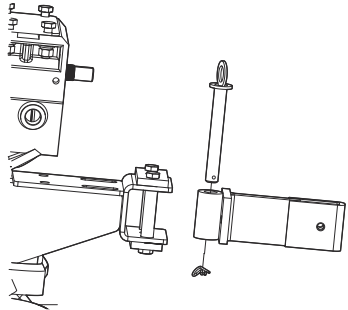
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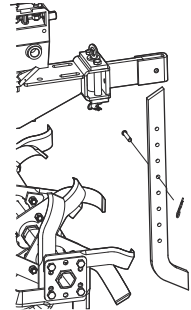
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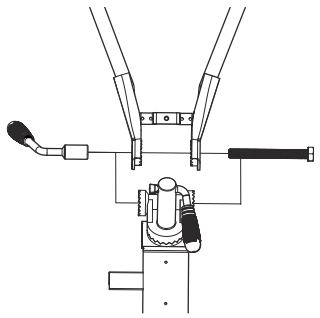
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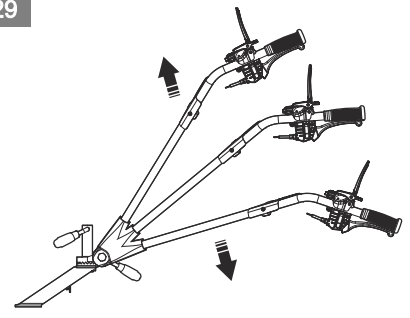
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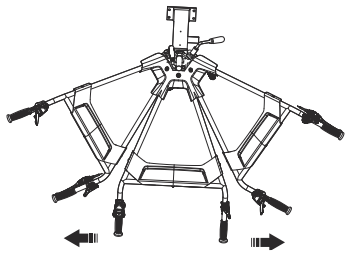
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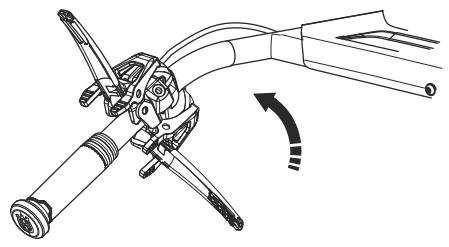
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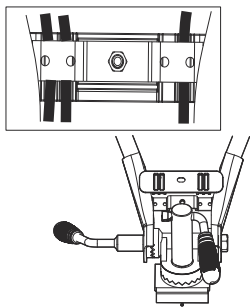
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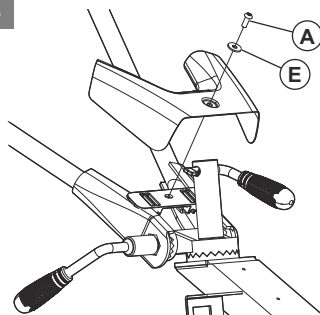
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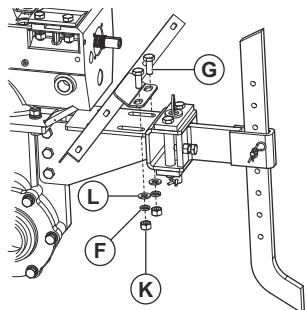
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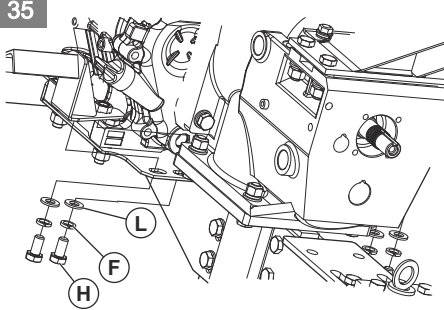
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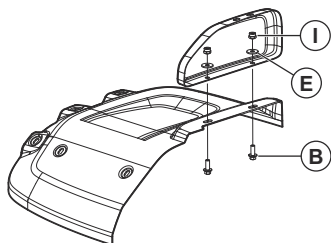
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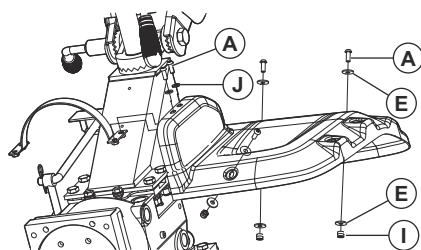
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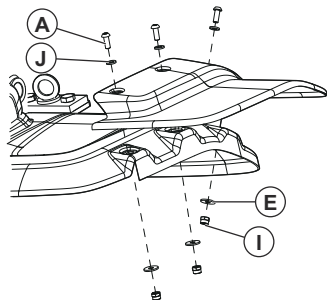
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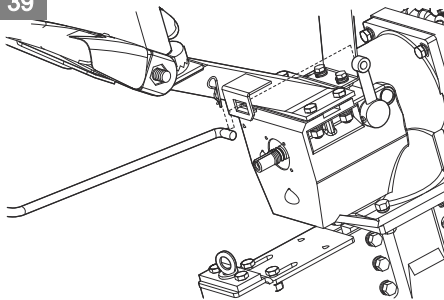
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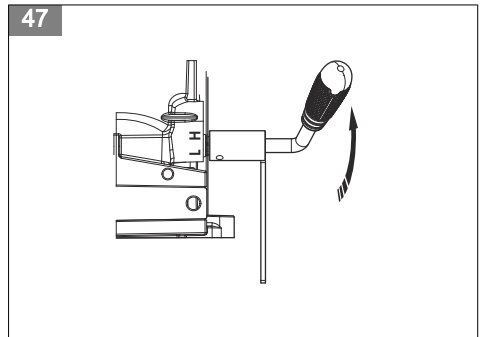
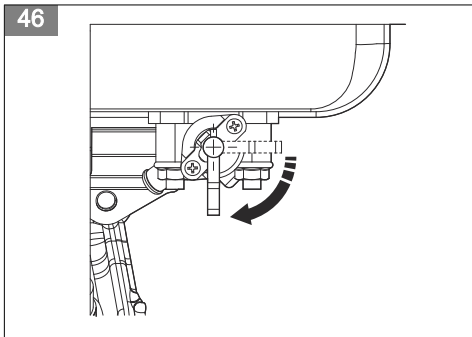
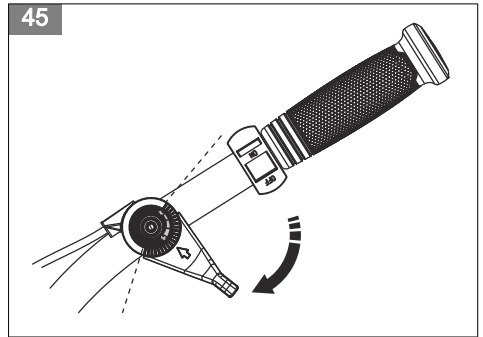
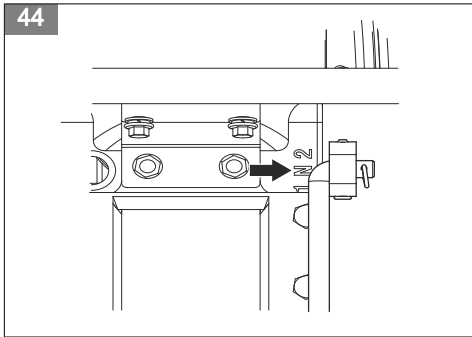
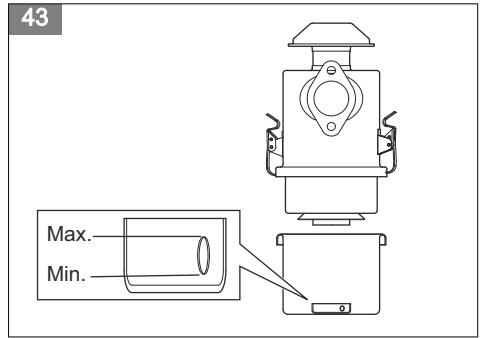
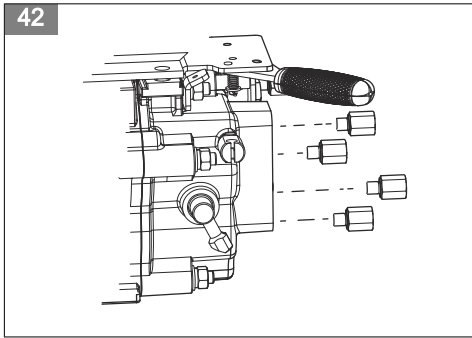
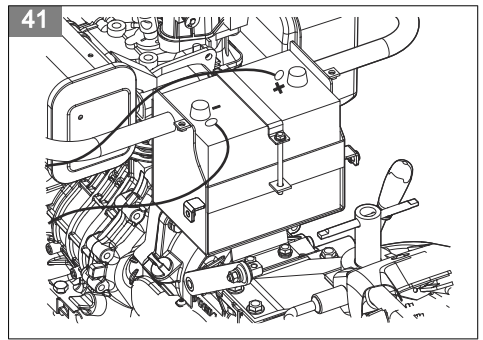
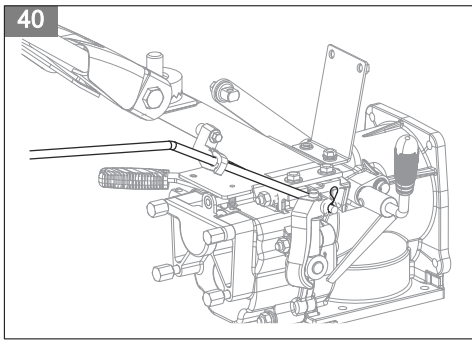


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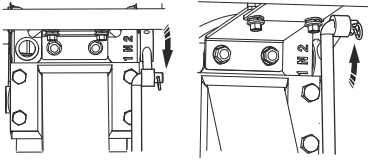


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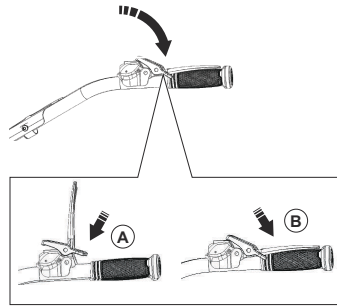




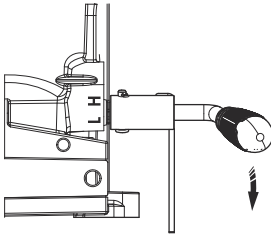
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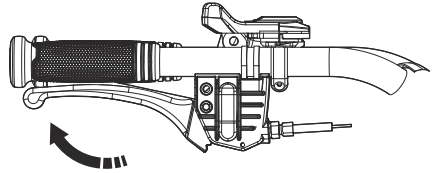
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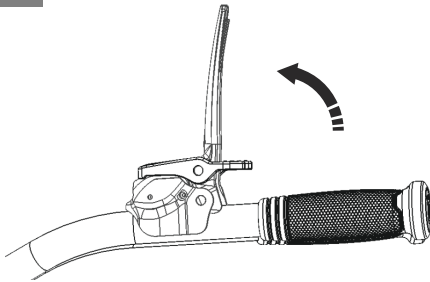
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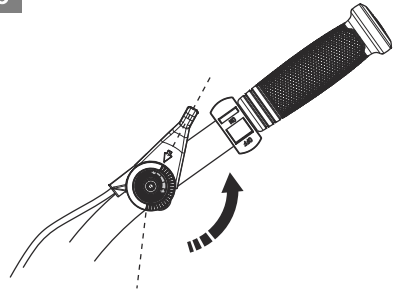
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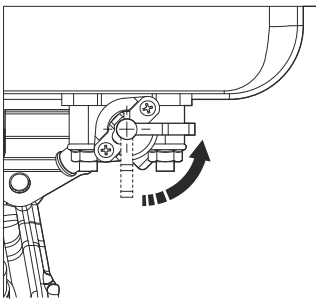
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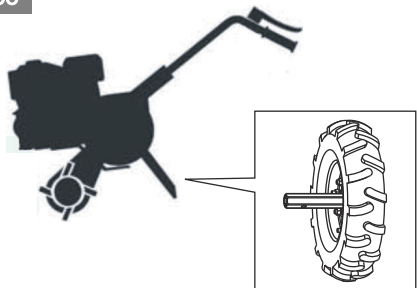
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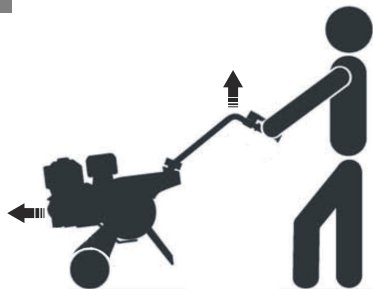
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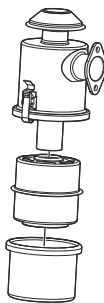
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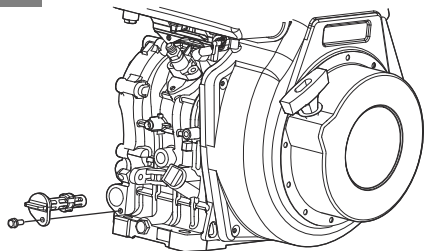
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Safety.....	11	Transportation and storage.....	16
Assembly.....	13	Technical data.....	17
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Introduction

Product overview (TF 544+)

(Fig. 1)

1. Engine
2. Tine blade cover
3. Handle
4. Extension cover
5. Tine blades
6. Drag bar
7. Top cover
8. Locking handle
9. Bumper
10. Clutch control
11. Throttle control
12. Reverse control
13. Side cover
14. Cable cover

15. Connector joint
16. Tine blade holder (primary)
17. Tine blade holder (secondary)
18. Tine cover bracket, front
19. Gear lever
20. Wheel kit
21. Tine cover bracket, rear
22. Rubber holder
23. Connecting plate
24. Tine blade holder (secondary)
25. Decompression lever
26. Hardware bag
27. Hardware bag (for tine blades only)
28. Tool bag

Product overview (TF 545D+, TF 545DE+)

(Fig. 2)

1. Engine
2. Tine blade cover
3. Handle
4. Extension cover
5. Tine blades
6. Drag bar
7. Top cover
8. Locking handle
9. Bumper
10. Clutch control
11. Throttle control
12. Reverse control
13. Side cover
14. Cable cover
15. Connector joint
16. Tine blade holder (primary)
17. Tine blade holder (secondary)
18. Tine cover bracket, front
19. Gear lever
20. Wheel kit
21. Tine cover bracket, rear
22. Rubber holder

23. Connecting plate
24. Tine blade holder (secondary)
25. Decompression lever
26. Hardware bag
27. Hardware bag (for tine blades only)
28. Tool bag
29. Battery (TF 545DE+)
30. Battery cover (TF 545DE+)

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.

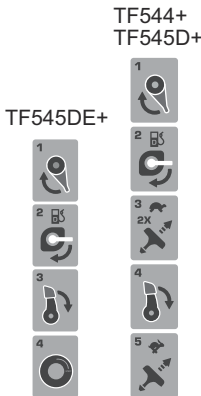
- (Fig. 7) Slow.
- (Fig. 8) Stop.
- (Fig. 9) Start (TF 545DE+).
- (Fig. 10) Warning: Rotating parts. Keep hands and feet clear.
- (Fig. 11) Keep your distance!
- (Fig. 12) Neutral gear.
- (Fig. 13) Reverse gear.
- (Fig. 14) Fast forward.
- (Fig. 15) Slow forward.
- (Fig. 16) Low speed (TF 545D+, TF 545DE+).
- (Fig. 17) High speed (TF 545D+, TF 545DE+).

Type plate

Husqvarna Prod. year	
Product	<input type="text"/>
Serial No.	<input type="text"/>
Article No.	<input type="text"/>
Model	<input type="text"/>
Working width	<input type="text"/>
Working depth	<input type="text"/>
Gear shifting	<input type="text"/>
Engine displacement	<input type="text"/>
Engine oil quality	<input type="text"/>
Engine oil capacity	<input type="text"/>
Gearbox oil quality	<input type="text"/>
Gearbox oil capacity	<input type="text"/>
Power	<input type="text"/>
Net weight	<input type="text"/>
Fuel (octan/octan)	<input type="text"/>
Husqvarna AB SE-561 82 Huskvarna SWEDEN	

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

Start instruction decal



Safety

Safety definitions

Warnings, cautions and notes are used to point out specially 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.
- 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.
 - Never attach a trailer to this product to tow or transport goods.
 - 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.

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. Keep a safe distance of at least 5-10 m during operation. Stop the product immediately if anyone approaches.
- 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

- Refer to the illustration for an overview of the bolts, screws, nuts and washers that are necessary to assemble the tine blades. (Fig. 18)
- Obey the instructions in the illustrations below.
 - a) (Fig. 19)
 - b) (Fig. 20)
 - c) (Fig. 21)
 - d) Make a note of the differences between the 2 secondary tine blade holders. Refer to *Product overview (TF 544+)* on page 10 and *Product overview (TF 545D+, TF 545DE+)* on page 10. Make sure that the secondary tine blade holders are assembled correctly. (Fig. 22) (Fig. 23)
 - e) (Fig. 24)
 - f) (Fig. 25)

Note: The illustrations only show the assembly of the tine blades on the right side. The same instructions are applicable on the left side. Make

sure that the sharp edges point in the same direction on the right and left tine blades.

To assemble the product

1. Refer to the illustration for an overview of the bolts, screws, nuts and washers that are necessary to assemble the product. (Fig. 18)
2. Install the connection joint. (Fig. 26)
3. Install the drag bar. (Fig. 27)
4. Install the handlebar. (Fig. 28)
5. Adjust the height of the handle and tighten the knobs. (Fig. 29)
6. Adjust the handle left or right and tighten the knobs. (Fig. 30)
7. Turn the clutch control to the correct side. Attach the bolt. (Fig. 31)
8. Install the cable cover.
 - a) Install the cables correctly.
 - b) Install the rubber holder. (Fig. 32)
 - c) Install the cable cover and tighten the screw. (Fig. 33)
9. Install the tine cover:



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

- a) (Fig. 34)
 - b) (Fig. 35)
 - c) (Fig. 36)
 - d) (Fig. 37)
 - e) (Fig. 38)
10. Install the gear lever.
- a) For TF 544+: (Fig. 39)
 - b) For TF 545D+, TF 545DE+: (Fig. 40)
11. After assembly, tighten all bolts and nuts again.



CAUTION: Do not disassemble the product. Speak to an approved servicing dealer for that task.

To connect the battery (TF 545DE+)

Recommended battery type is 28 Ah, 12 V.

1. Connect the black battery cable to the negative (-) terminal on the battery. (Fig. 41)
2. Connect the red battery cable to the positive (+) terminal on the battery.

To install the PTO connection for accessories (TF 545D+, TF 545DE+)

- Install as shown in the illustration. (Fig. 42)

Operation

Introduction



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

To do before you operate the product

- 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 oil level of the gearbox 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.
- Apply oil to the air filter. Refer to *Technical data on page 17* for correct oil type.
 - a) Fill oil until the oil level is between the Max. and Min. marks. (Fig. 43)

To fill fuel



CAUTION: Incorrect type of fuel can cause engine damage. Use diesel fuel number 0 in the summer and diesel fuel number -10 in the winter.

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 prepare to start the product

1. Put the gear lever in the neutral gear position. (Fig. 44)
2. Apply full throttle with the throttle control. (Fig. 45)
3. Open the fuel valve. (Fig. 46)

To start the product (TF 544+, TF 545D+)

1. Push the decompression lever down and hold it down with one hand.

2. With your other hand, pull the starter rope handle slowly until you feel resistance.
3. Release the starter rope handle slowly to let the starter rope go back.
4. Pull and release the starter rope handle slowly 2 more times.
5. Release the decompression lever.
6. Push the decompression lever down.
7. Pull the starter rope handle quickly and with force until the engine starts. Use two hands if it is necessary.



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

To start the product (TF 545DE+)

1. Push the decompression lever down and release it.
2. Turn the ignition key to START.



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

To operate the product forward

1. Set the speed lever to high speed. (TF 545D+, TF 545DE+) (Fig. 47)
2. Use the gear lever to select drive speed. Position 1 is slow speed and position 2 is fast speed. (Fig. 48)
3. Push down the clutch lever safety lock on the handle.
4. Push the clutch lever (A) in the direction of the handle to make the tine blades rotate. (Fig. 49)
5. 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. Set the speed lever to low speed. (TF 545D+, TF 545DE+) (Fig. 50)
5. Put the gear lever in the neutral gear position. (Fig. 44)
6. Push the reverse control against the handle. (Fig. 51)
7. Push down the clutch lever safety lock on the handle.
8. Push the clutch lever (A) in the direction of the handle to make the tine blades rotate. (Fig. 49)
9. Release the clutch lever (B) to make the tine blades stop.

To stop the product

1. Release the clutch lever. (Fig. 52)
2. Put the gear lever in the N position. (Fig. 44)
3. Set the throttle control to the STOP position. (Fig. 53)
4. Close the fuel valve. (Fig. 54)

To move the product with the wheel kit

1. Stop the engine. Refer to *To stop the product on page 15*.
2. Replace the tine blades for the wheels. (Fig. 55)
3. Lift the drag bar from the ground with the handlebar. (Fig. 56)

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	Maintenance interval in hours			
		20 hours or each month	150 hours or each 3 months	500 hours or each 6 months	1000 hours or 1 time each year
Clean the product.	X				

Maintenance	Daily maintenance before operation	Maintenance interval in hours			
		20 hours or each month	150 hours or each 3 months	500 hours or each 6 months	1000 hours or 1 time each year
Make sure that all nuts and screws are tight and are not damaged.	X				
Clean the air filter. Replace it if it is necessary.	X		X*	X*	
Do a check of the engine oil level.	X				
Do a check of the oil level of the gearbox. Fill oil if it is necessary.	X				
Make sure that there is no leakage of fuel, engine oil and lubrication.	X				
Do a check of the fuel level. Fill fuel if it is necessary.	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 oil filter.		X	X	X	X
Clean the fuel filter and the area around the fuel filter.			X	X	X
Replace the air filter.					X*
Replace the gears and bearings.					X**

To clean the foam air filter



CAUTION: Do not use compressed air as this can cause damage to the foam air filter.

1. Remove the foam air filter. (Fig. 57)
2. Examine the foam air filter. Clean the foam air filter with warm soap water.



CAUTION: Replace a foam air filter that is damaged or cannot be fully cleaned.



CAUTION: Make sure that the foam air filter is dry before you install it.

To clean the oil filter

- Refer to the illustration. (Fig. 58)

Transportation and storage

- For transportation shorter distances, refer to *To move the product with the wheel kit on page 15.*
- 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 544+	TF 545D+	TF 545DE+
Working width, mm	1350	1350	1350
Working depth, mm	150-300	150-300	150-300
Engine	WM186F	WM186F	WM186FE
Fuel	Diesel fuel	Diesel fuel	Diesel fuel
Fuel tank capacity, l	4.6	4.6	4.6
Oil	SAE-10W-30	SAE-10W-30	SAE-10W-30
Oil tank capacity, l	1.65	1.65	1.65
Cylinder displacement, cm ³	418	418	418
Power kW/hp @ rpm	5.8/7.8 @3300	5.8/7.8 @3300	5.8/7.8 @3300
Gears	R, N, 2, 1	H, L, R, N, 2, 1	H, L, R, N, 2, 1
Oil capacity gearbox, l	1.65	2.0	2.0
Gross weight, kg	172	185	188
Net weight, kg	151	164	167
Package dimensions, mm	1030×640×870	1030×640×870	1030×640×870

Accessories

To operate a ditcher (accessory) (TF 545D+, TF 545DE+)

1. If it is necessary for the operation, loosen and turn the handlebar to the side for a better operation position.
2. Set the speed lever to low speed. (Fig. 50)
3. Use the gear lever to select drive speed. Position 1 is slow speed and position 2 is fast speed. (Fig. 48)
4. Push down the clutch lever safety lock on the handle.
5. Push the clutch lever (A) in the direction of the handle to start the operation. (Fig. 49)
6. Release the clutch lever (B) to stop the operation.

To operate a pump (accessory) (TF 545D+, TF 545DE+)

1. Set the speed lever to high speed. (Fig. 47)
2. Put the gear lever in the neutral gear position. (Fig. 44)

3. Push down the clutch lever safety lock on the handle.
4. Push the clutch lever (A) in the direction of the handle to start the operation. (Fig. 49)
5. Release the clutch lever (B) to stop the operation.

To operate a sprayer (accessory) (TF 545D+, TF 545DE+)

1. Set the speed lever to low speed. (Fig. 50)
2. Put the gear lever in the neutral gear position. (Fig. 44)
3. Push down the clutch lever safety lock on the handle.
4. Push the clutch lever (A) in the direction of the handle to start the operation. (Fig. 49)
5. Release the clutch lever (B) to stop the operation.



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Original instructions



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