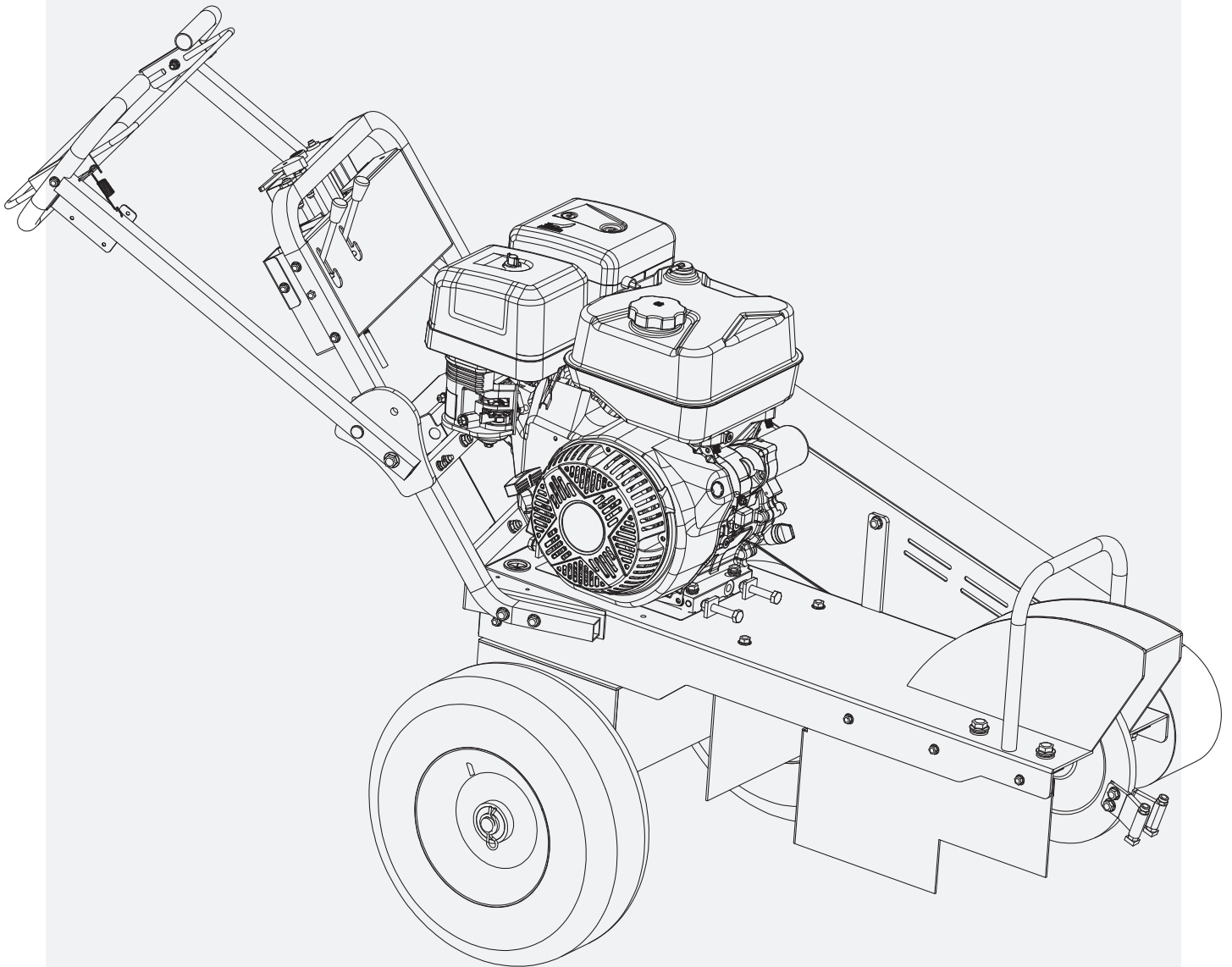




15HP Stump Grinder | GUO152 Operator's Manual



Warning: Please read and thoroughly understand all instructions before operating. Failure to follow safety rules and other basic safety precautions may result in serious personal injury. Keep these instructions in a safe and easily accessible place so that they can be referred to when needed. Retain these instructions to assist in future servicing.

INDEX

Warning	3
Safety Symbols	4
Technical Specifications	5
Main Components	5
Parts List	6
Recommended Tools	6
Assembly	7-11
Operation	12-15
Maintenance	16-20
Storage	20
Warranty	20
Trouble Shooting	21
Exploded and Parts List	22
Cutter Disc Assembly	23

Warning

The stump grinder is designed solely for outdoor operations and is capable of eliminating tree stumps and protruding root systems down to near ground level. By horizontally swaying the disc across the stump's top and front, you can incrementally remove it. Before you start using the grinder, thoroughly read and understand the entire manual. Neglecting to operate or maintain the machine correctly could lead to severe injuries or even fatalities for both the operator and onlookers. Every machine carries inherent risks, and this stump grinder has its own specific dangers that you must be conscious of. If you own or operate this machine, it's your responsibility to be aware of these risks and how to mitigate them. Pay extra attention to these specific hazards in the manual.

Specifically, pay close attention to these key points:

1. Know the positions of subterranean services such as power cables before starting.
2. Only allow trained individuals to handle the equipment; keep untrained adults and children away.
3. Wear appropriate eye gear and protective clothing to shield yourself from projectiles like stones and fragments.
4. Ensure the grinder's blades are intact, well-sharpened, and firmly secured.
5. Do not operate the grinder if disengaging the safety bar fails to shut off the engine.
6. Maintain a safe distance of no less than 75 feet between the grinding operation and onlookers or children.
7. Put protective barriers around cars, windows, and other valuables within a 75-foot radius to guard against flying particles.
8. Be prepared for any sudden recoil from the machine when it first contacts the stump.
9. Remain vigilant about the potential for carbon monoxide exposure.
10. Exercise caution during fueling to avert fire or explosion risks.
11. Do not attempt to make adjustments, clear jams, or clean the equipment when the engine is active.
12. Avoid contact with the engine and exhaust to prevent burn injuries.
13. Refrain from using the machine in conditions where slipping is likely, including wet or icy surfaces.

Safety Symbols

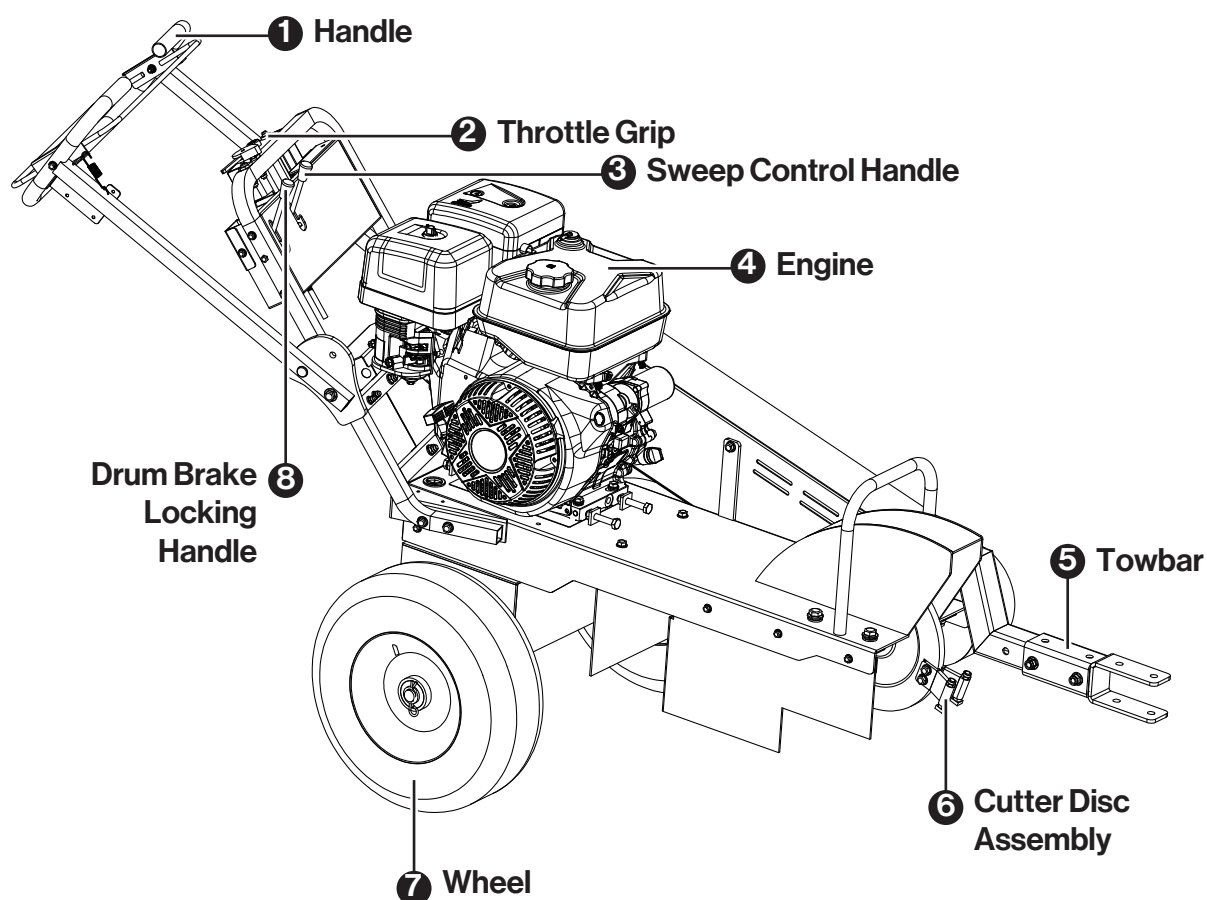
Please study the following symbols and learn their meanings. Proper interpretation of these symbols will help you to operate the product in a safe and responsible manner.

	Read these instructions carefully.
	Wear eye protection. Wear hearing protection.
	Wear protective gloves.
	Wear safety footwear.
	Do not remove or tamper with the protection and safety devices.
	No smoking, sparks, or flames.
	Do not touch parts that are hot from operation. Serious burns may result.
	Keep your feet clear from all rotating parts.
	Be aware, objects may be thrown while in use.
	Keep children and bystanders off and away.

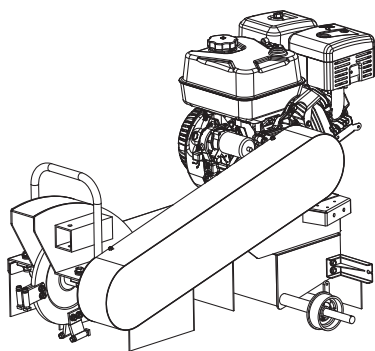
Technical Specifications

Item No.	GU0152
Engine Power	420CC
Start Type	Electric
Transmission	Belt Drive
Wheel	405 mm (16")
Cutter Disc Size	343 mm (13.5")
Rotation Speed	3600 RPM
Grinding Height	406 mm (16")
Grinding Depth	305 mm (12")
Sweep Width	1000 mm (39")

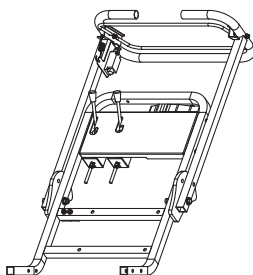
Main Components



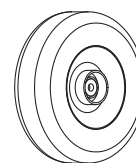
Parts List



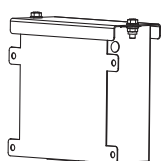
Engine Assembly Kit



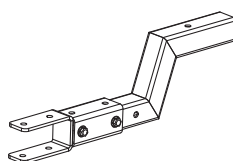
Handle Bar



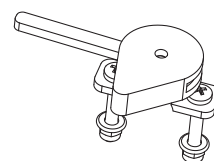
Wheel (x2)



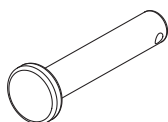
Battery Box



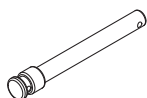
Towbar



Throttle Grip



10x50 Pin (x2)



10x85 Pin (x1)



R-pin 3.2x62 (x3)



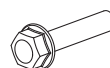
R-pin 4x75 (x2)



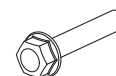
Washer (x4)



M8 Nut (x8)

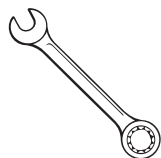


M8x40 Bolt (x4)



M8x45 Bolt (x4)

Recommended Tools



**10mm Open-end Wrench (x1)
12mm Open-end Wrench (x1)
13mm Open-end Wrench (x1)**



Phillips Screwdriver (x1)

Assembly

Step 1- Assemble the Handle Bar

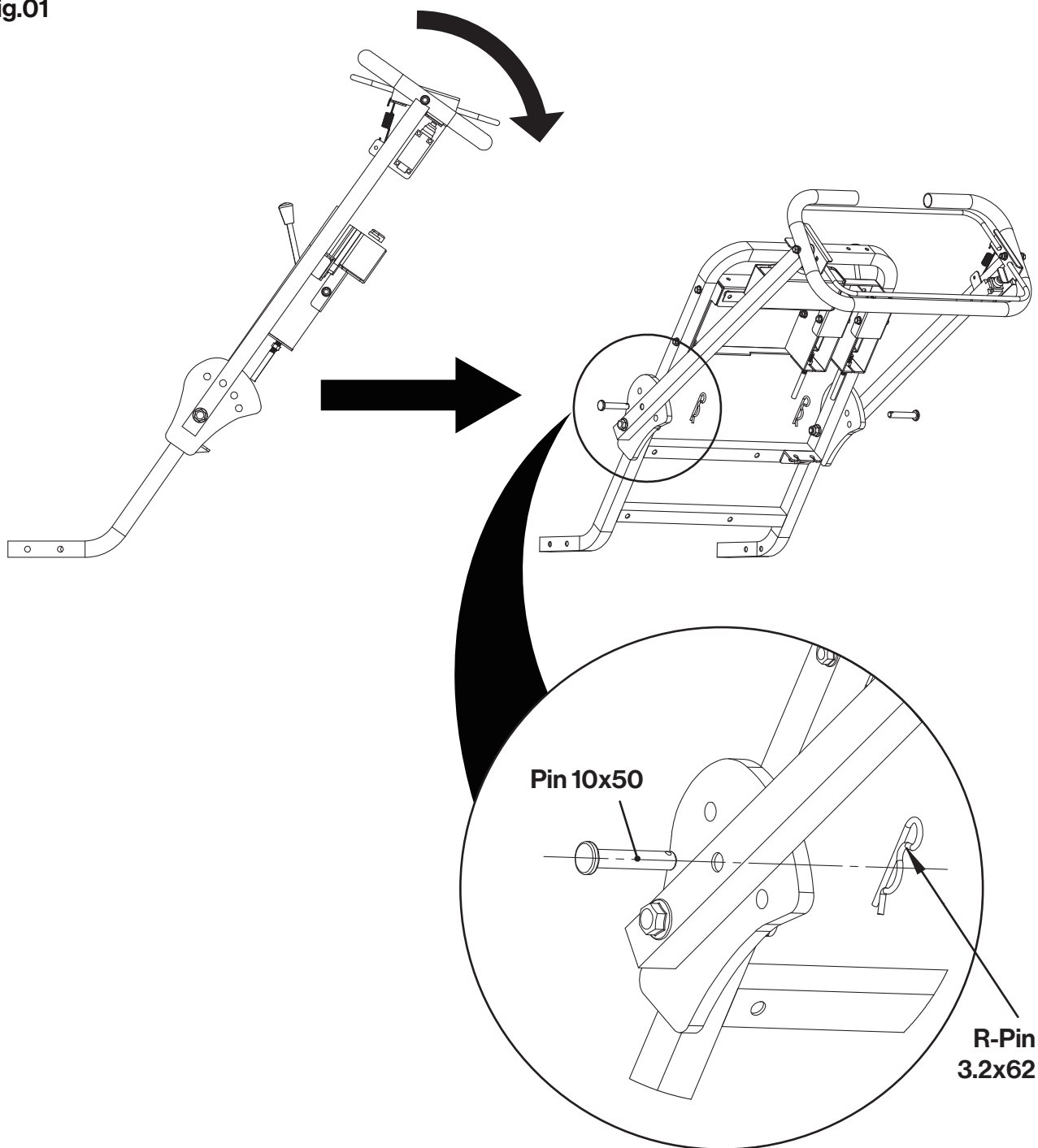
Parts: Handle Bar, Engine Assembly Kit

Hardware: Pin 10x50 (x2), R-Pin 3.2x62 (x2), M8x45 Bolt (x4), M8 Nut (x4)

Recommended Tools: 12mm Open-end wrench, 13mm Open-end wrench

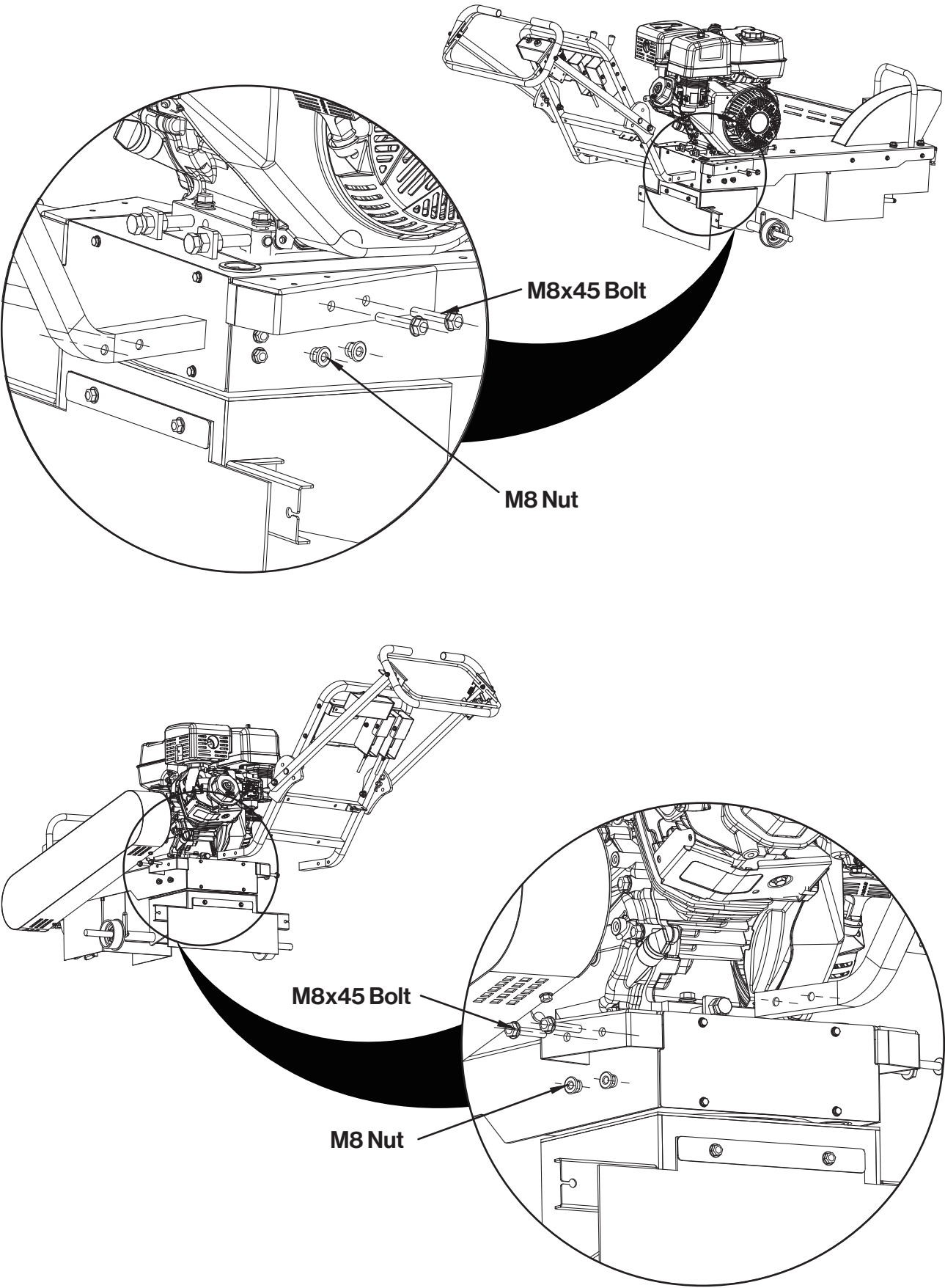
- a. You can rotate the top handle bar to your desired position and secure it using 2 10x50 pins and two 3.2x62 R-pins (with three adjustable positions to choose from). **(Fig.01)**

Fig.01



b. Place the handle bar onto the engine assembly kit. Use 4 M8x45 bolts and 4 M8 nuts for installation. **(Fig.02)**

Fig.02



Step 2- Assemble the Wheels

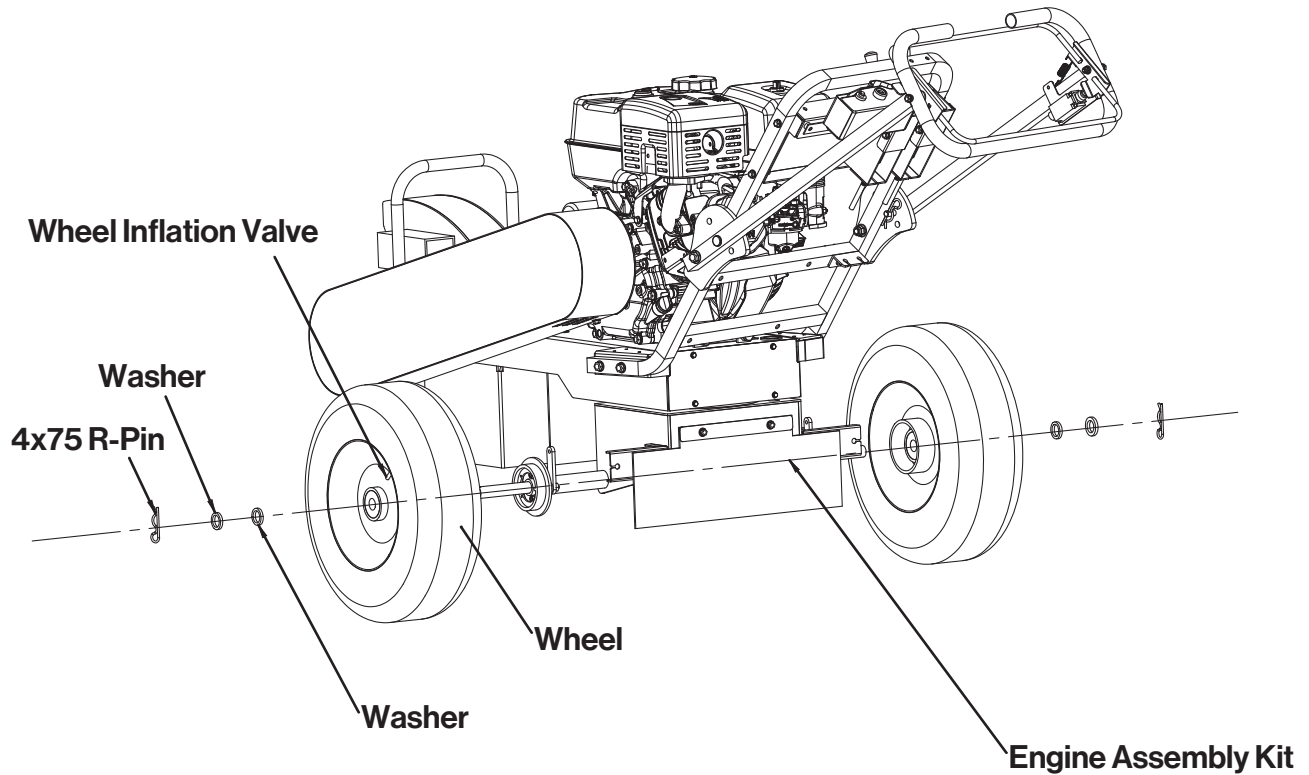
Parts: Engine Assembly Kit, Wheel (x2)

Hardware: Washer (x4), R-Pin 4x75 (x2)

Attach the 2 wheels to both ends of axel on the engine assembly. Secure them using 2 R-pins and 2 washers.

Note: After installation, ensure the wheel inflation valve is on the outer side of the wheel; do not install the wheels in reverse. (Fig.03)

Fig.03



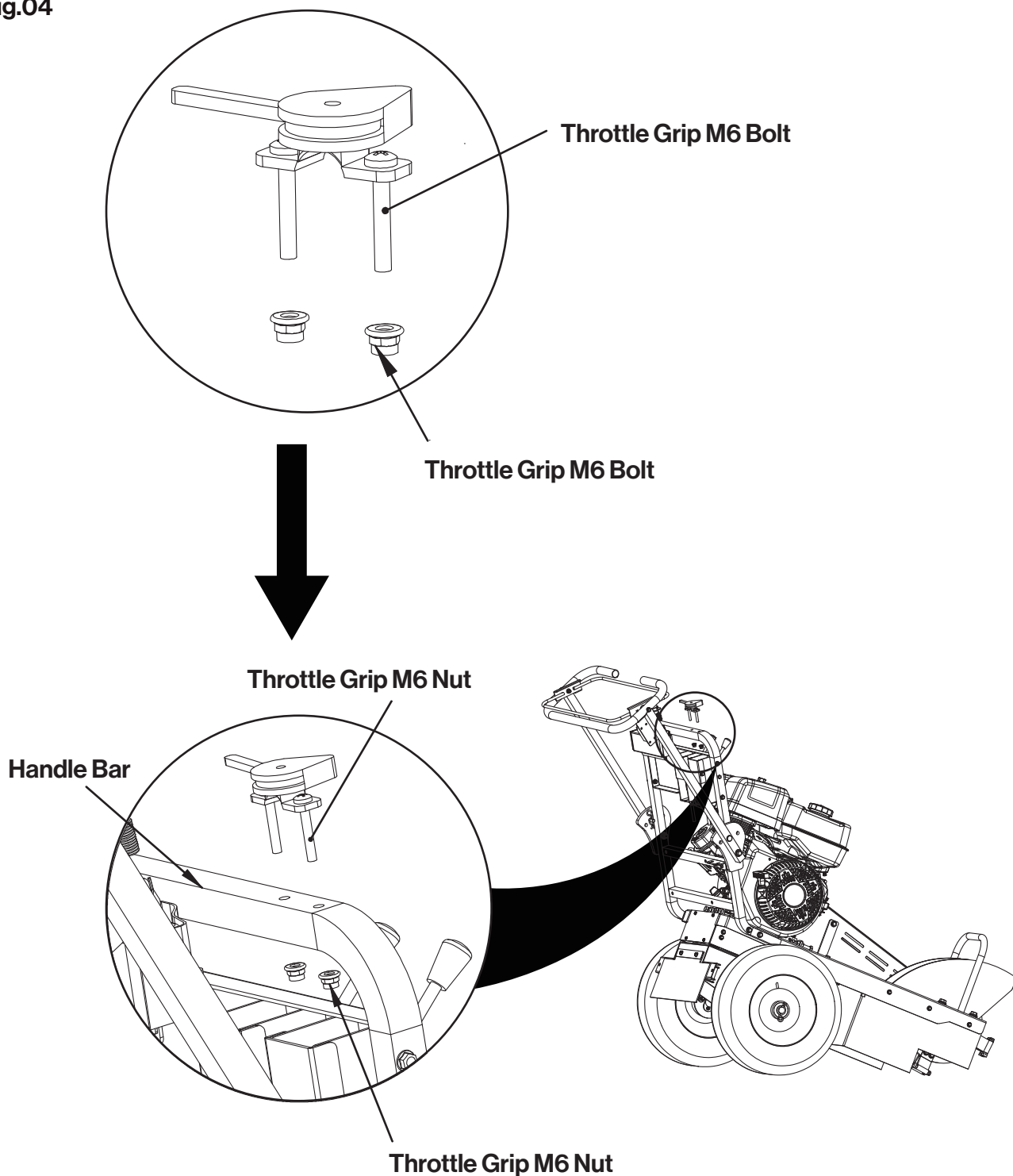
Step 3- Assemble the Throttle Grip

Parts: Throttle Grip, Handle Bar

Recommended Tools: 10mm Open-end wrench, Phillips Screwdriver.

- a. Remove the two M6 nuts from the throttle grip.
- b. Secure throttle grip. to handle bar assy with the 2 throttle grip M6 bolts and the two removed throttle grip M6 nuts.
(Fig.04)

Fig.04



Step 4- Assemble the Battery Box

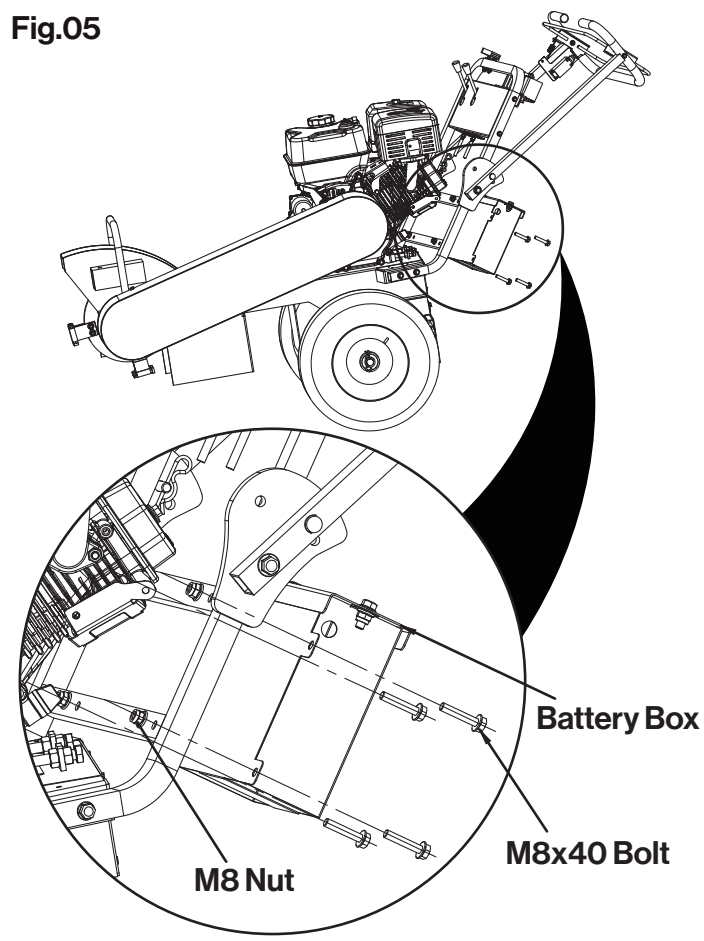
Parts: Handle Bar , Battery Box

Hardware: M8x40 Bolt (x4), M8 Nut (x4)

Recommended Tools: 12mm Open-end wrench,
13mm Open-end wrench

Secure the battery box to the handle bar with 4 M8x40 bolts and 4 M8 nuts. **(Fig.05)**

Fig.05



Step5 - Turn on the Power

Recommended Tools:

12mm Open-end wrench

13mm Open-end wrench

Phillips Screwdriver

- Loosen 2 M8x20 bolts and 2 M8 nuts remove the battery cover.
- Connect the cables to the battery: Red wire to the positive terminal (red), black wire to the negative terminal (black or blue).
- Replace the cover and tighten the battery box using 2 M8x20 bolts and 2 M8 nuts. **(Fig.06)**

Reversing the power cables will damage the engine and cause product failure. Ensure correct connections.

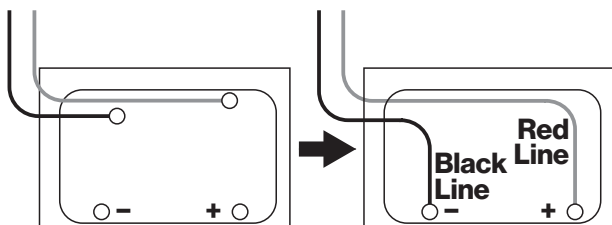
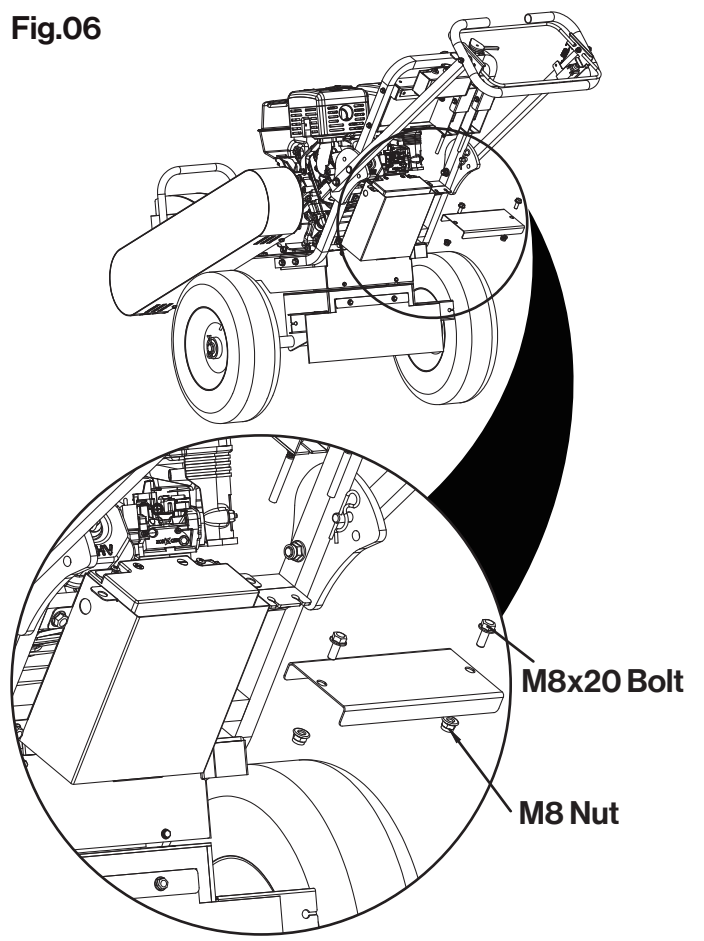


Fig.06



Operation

CAUTION

Add engine oil. A new engine is shipped without oil. You must add the correct amount of oil to engine crankcase or engine will be damaged beyond repair. Before starting the engine you must make sure you have completed the following:

- 1. Clear the Work Area:** Ensure the operating zone is clear of all personnel, bystanders, pets, and debris.
- 2. Identify Underground Hazards:** Clearly locate and mark all underground utilities (cables, pipes, etc.) to prevent accidental damage.
- 3. Wear Personal Protective Equipment (PPE):** Operators must wear appropriate PPE, including safety glasses, hearing protection, heavy-duty gloves, sturdy boots, and close-fitting clothing.
- 4. Check Engine Oil Level:** Verify that the engine crankcase contains the correct level of oil. Top up if necessary according to manufacturer specifications.
- 5. Fill Gasoline Tank:** Fill the fuel tank with adequate gasoline for the intended operation.
- 6. Inspect Fuel System:** Check the fuel lines, tank, and connections for any signs of leaks or damage before starting.
- 7. Verify Control Functionality:** Ensure all controls (handlebars, throttle grip, operator presence handle, etc.) are functioning properly and operate smoothly.

Notice: make sure the throttle grip is in the released position. (Fig.07)

1. Start the Engine. (Fig. 08)

When starting the engine, you must squeeze the safety handle. During operation, you need to continue squeezing the safety handle. Once you release safety handle the engine will stop working.

Notice: The safety handle is not a throttle grip, but serves as a safety mechanism to ensure the operator is in the correct operating position.

Note: For more information on engine operations, please refer to the engine's instruction manual.

Fig.07

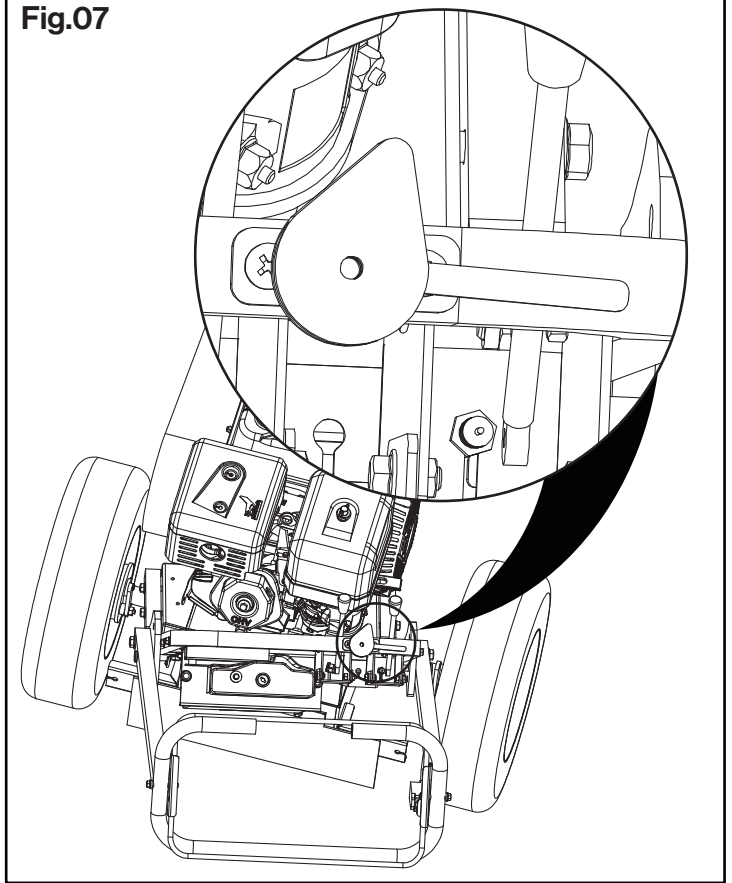
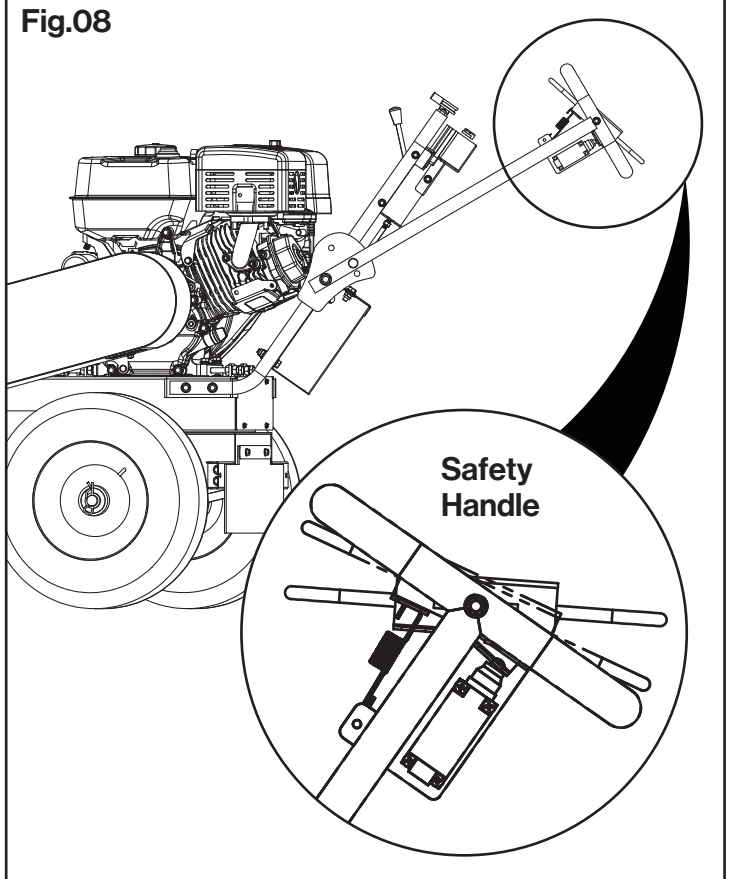


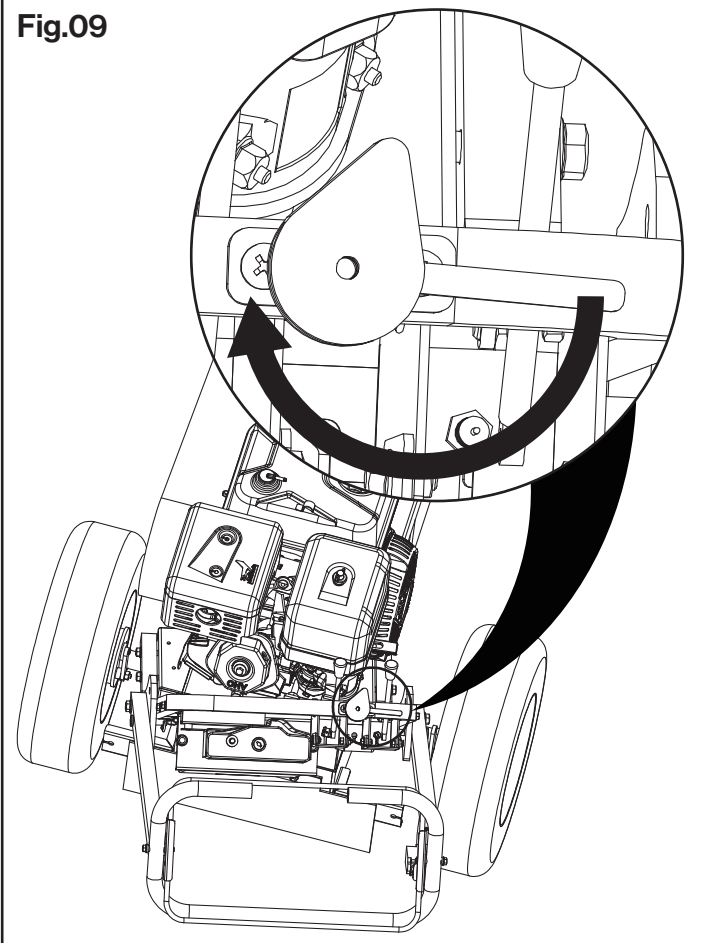
Fig.08



2. Push the throttle grip

After starting the engine, push the throttle grip to make the cutter disc rotate. Now you can start working. **(Fig. 09)**

Fig.09



3. Sweep Function Operation

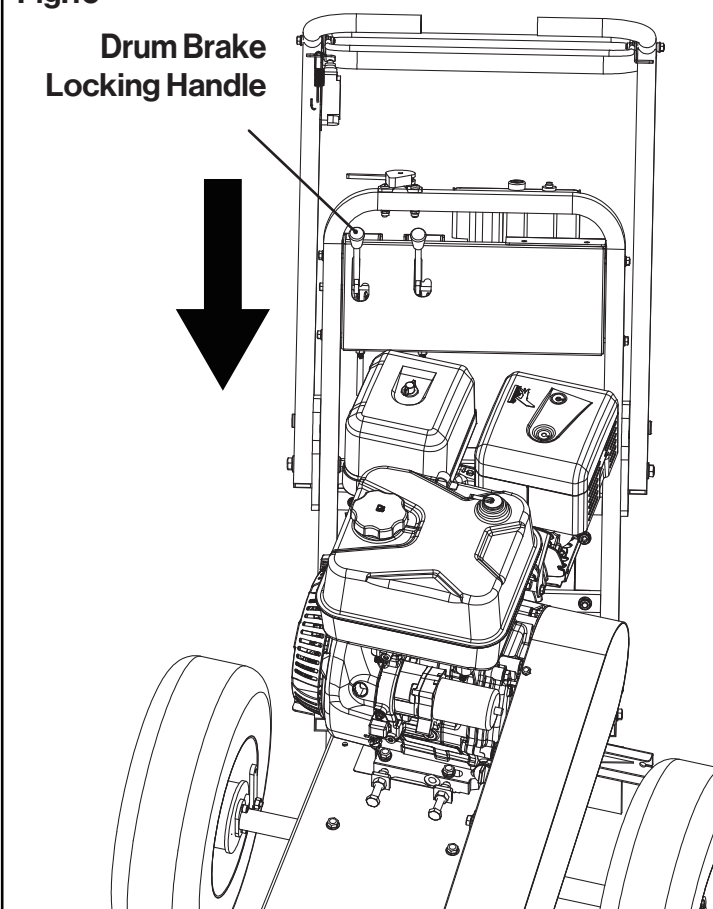
The sweep function minimizes manual repositioning during stump grinding operations, significantly decreasing operator fatigue.

a. Positioning & Locking

- Drive the unit to target location
- Engage the drum brake locking handle to immobilize the chassis. **(Fig.10)**

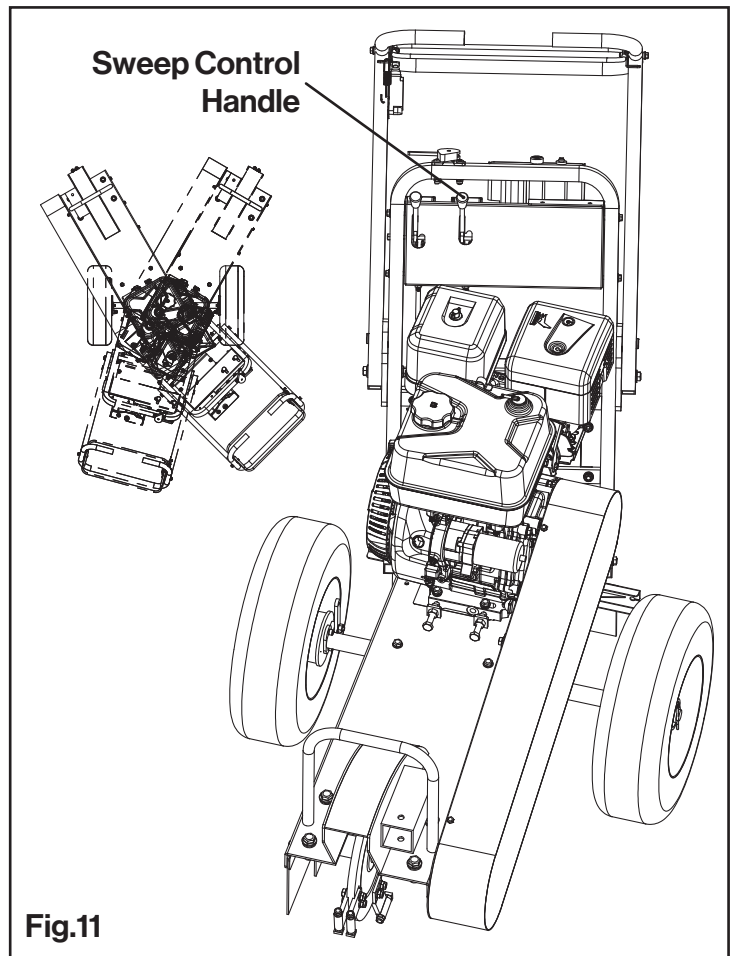
Fig.10

Drum Brake
Locking Handle



b. Activate Sweep Grinding

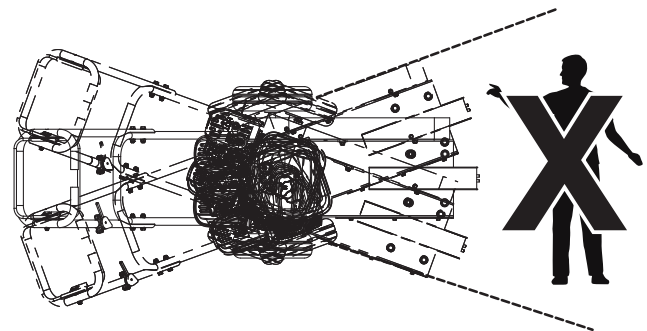
- Depress the sweep control handle (Fig.11)
The cutter disc will pivot laterally while the base remains stationary, enabling efficient material removal.



WARNING

When the equipment is operating, do not stand directly in front of the cutter disc to avoid injury from flying wood chips. (Fig. 12)

Fig.12

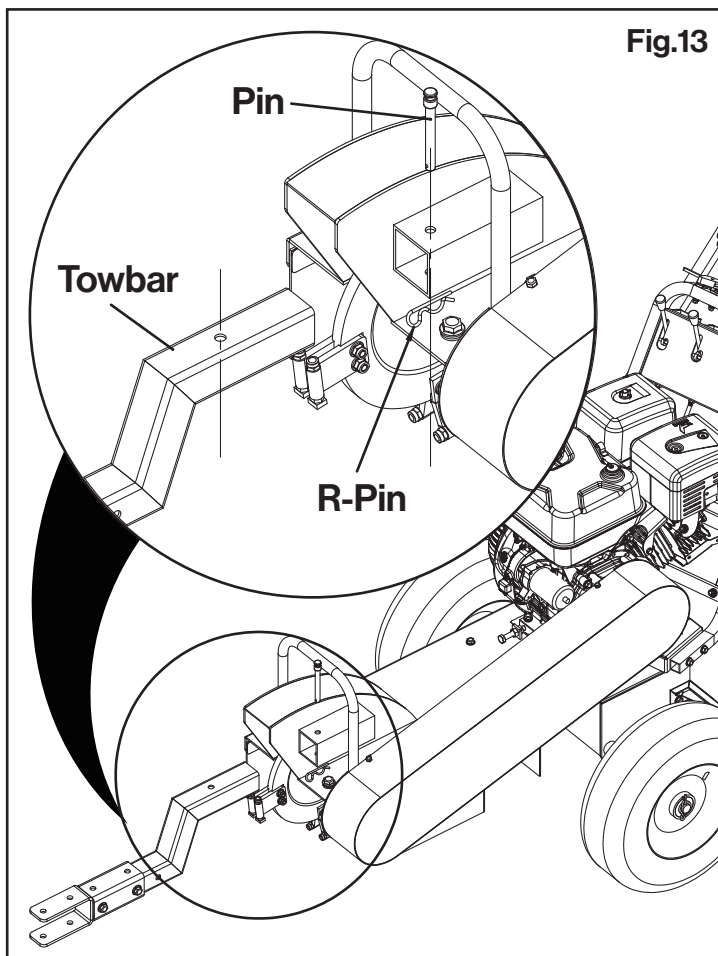


Tow Bar Operation

Parts: Towbar

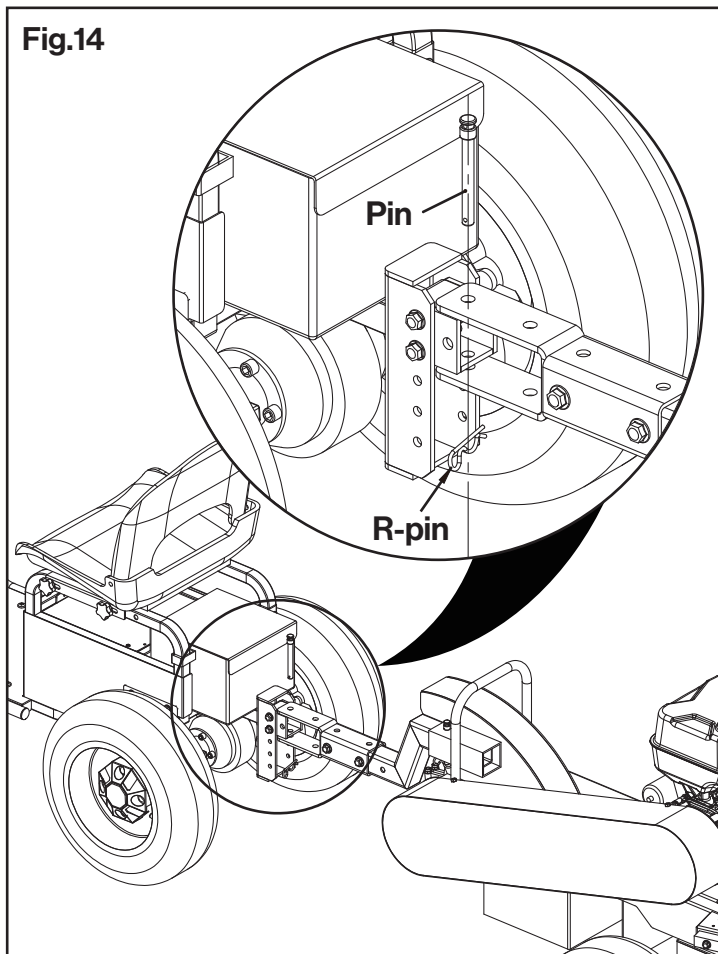
Hardware: Pin(x1), R-pin(x1)

- a. Insert the towbar into the square tube of the engine assembly kit. Secure it with a pin shaft and R-pin. **(Fig.13)**



- b. connect the towbar to the towing equipment using the extracted pin and R-pin. **(Fig.14)**

Note: Always remove the towbar before operation or when manually pushing the machine



Maintenance

WARNING: Read and follow these safety rules whenever you will be servicing the grinder:

1. Turn off grinder. Always turn off grinder and make sure the engine is cool before working on the engine or grinder.
2. Repair. Major service, including the installation or replacement of parts, should be performed only by a qualified electrical service technician.
3. Replacement parts. If a part needs replacement, only use factory approved repair parts. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the grinder and will void the warranty.

Perform engine maintenance.

1. Perform engine maintenance as specified in the engine owner's manual.
2. Follow your engine manual for further information.

Cutter blades replacement.

1. When the cutter blades wear down, resulting in poor grinding performance.
Remove the M8 Metal Lock bolt from the blade, Replace it with a new cutter head bolt. **(Fig.15)**

Note: Once a single side of the cutter becomes worn, the bolt could be rotated 180° to utilize the intact opposite side.

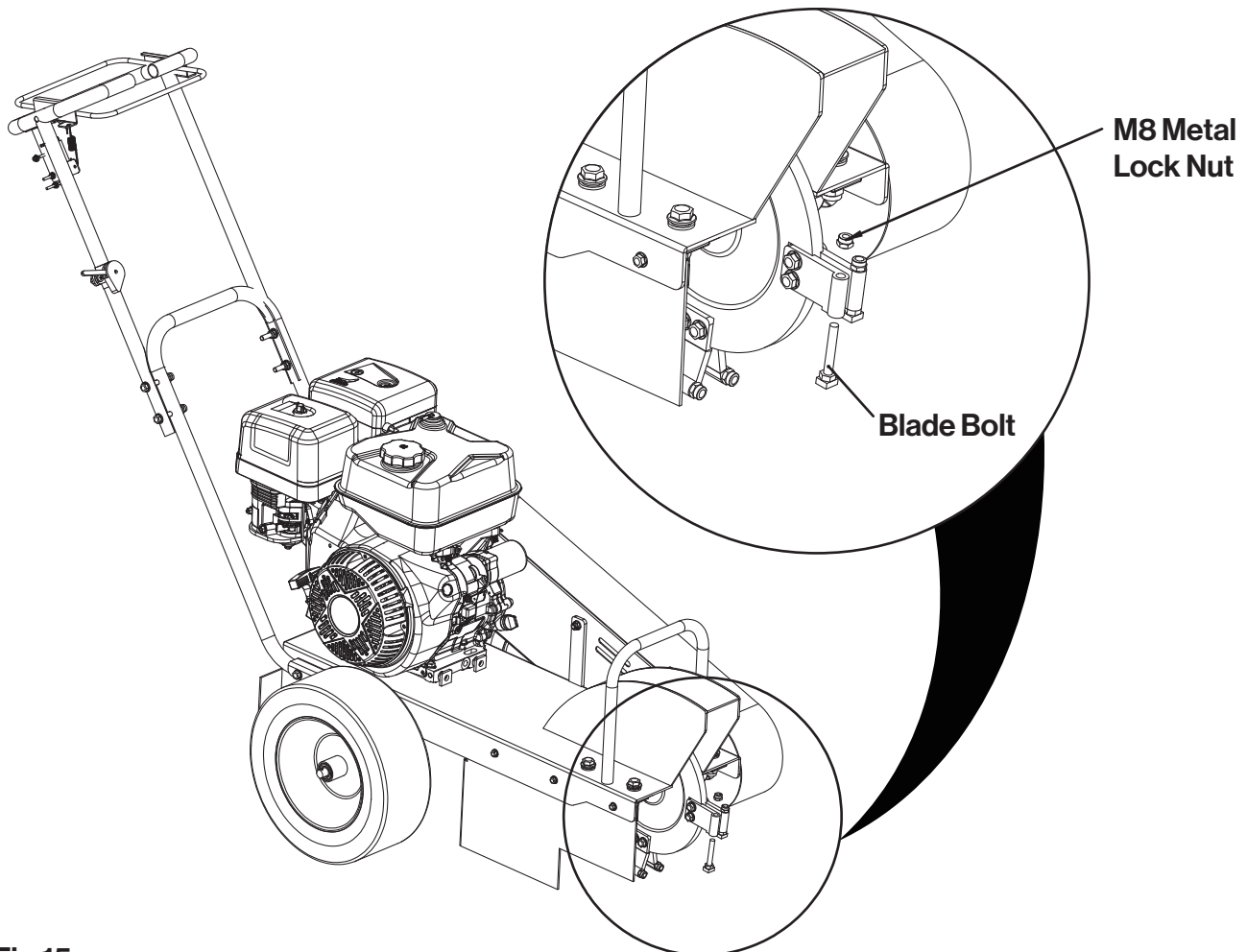


Fig.15

2. If the side blade is damaged:

First, check if the cutter blade is worn to the point of needing replacement.

If replacement is not required, refer to the steps above to remove the cutter blades first. Then remove the M8*35 bolt and M8 nut, take off the damaged blade, insert the removed cutter blade into the new blade, and secure it with the removed nut. Rotate the cutter head to ensure it does not collide with the cover, reinsert the blade and tighten it securely with the bolt and nut just removed.

If the cutter blade needs to be replaced, directly install the new cutter blade onto the side blade. **(Fig.16)**

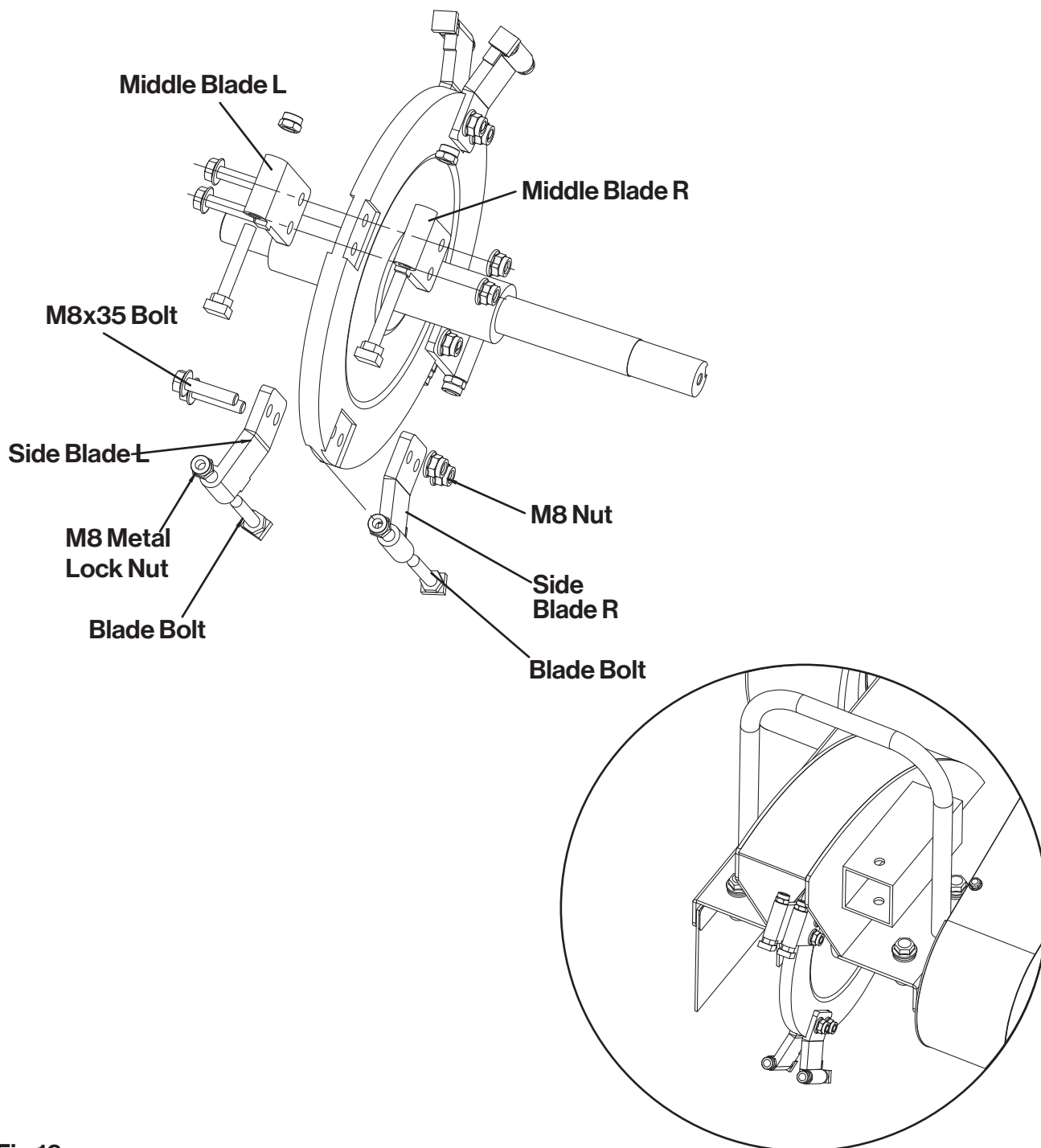


Fig.16

Belt Replacement.

1. Remove the four fixing bolts (M6x12) from the belt cover, and then remove the belt cover. **(Fig.17)**

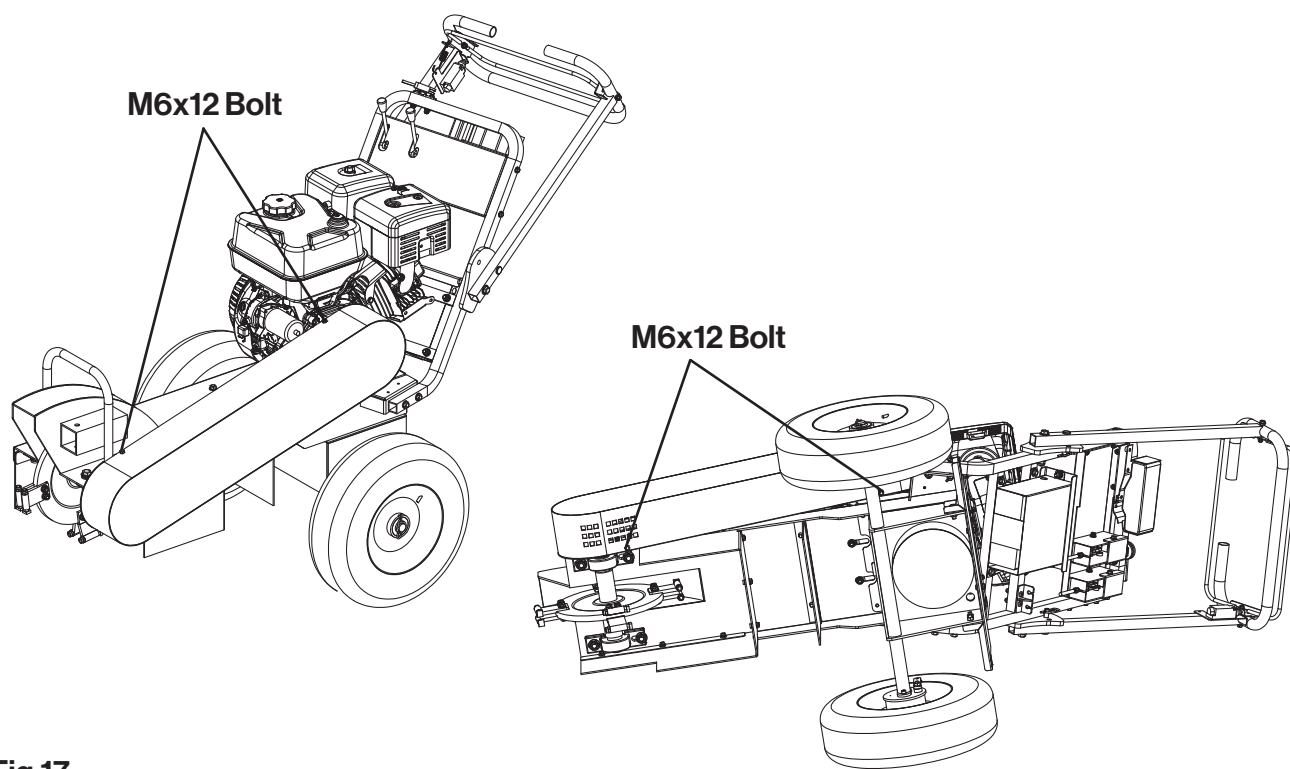


Fig.17

2. Loosen the 2 M8x20 bolts of the engine. **(Fig.18)**

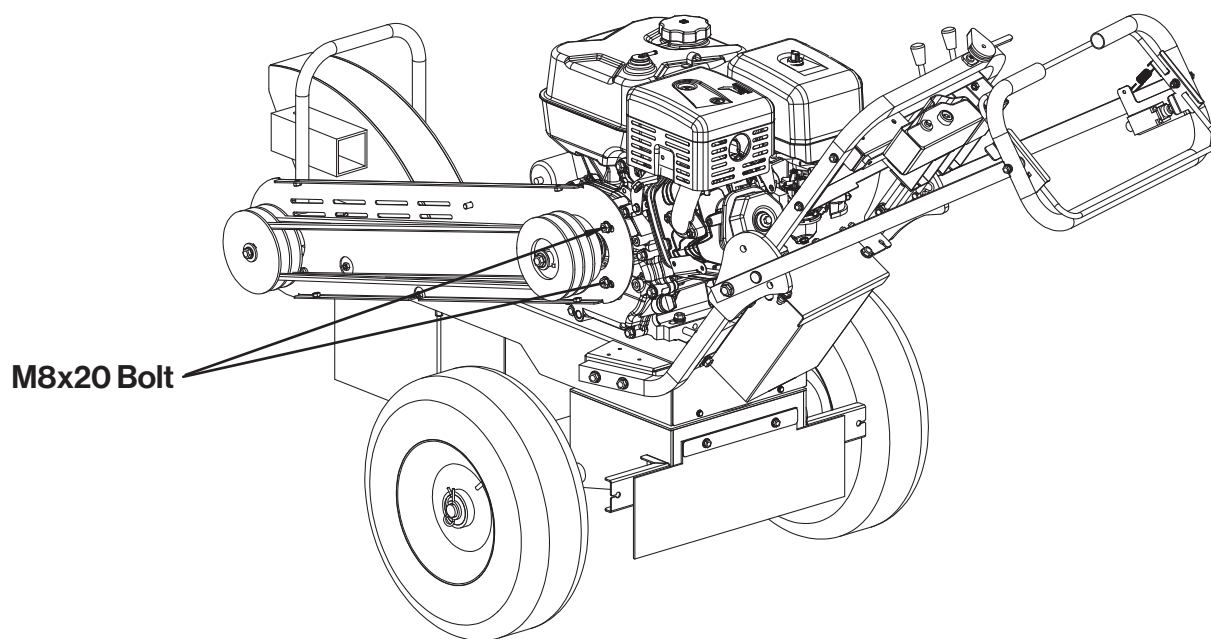


Fig.18

3. Loosen the 4 vertical bolts(engine bolt) and 4 engine Nuts securing the engine slightly.
 4. Then, loosen the the 4 horizontal screw (top screw) in the opposite direction of the engine.
- (Fig.19)**

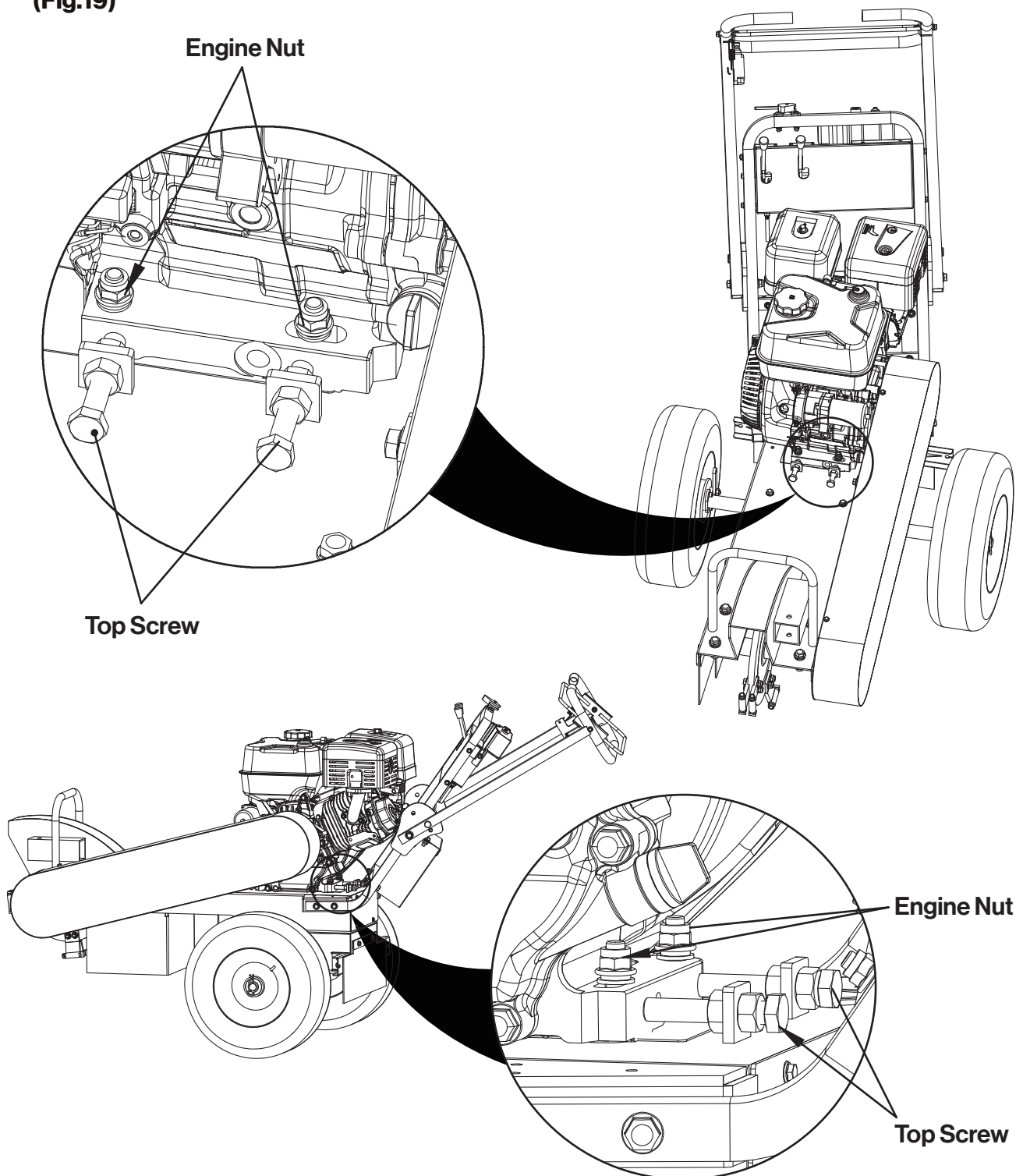


Fig.19

5. Carefully slide the engine towards the cutter head until the drive belt slackens.
 6. Remove the slackened belt and replace it with the new one.
- (Note: Tighten the engine mounting bolts and nuts to the specified torque value.)**

Belt Tension Adjustment.

1. Remove the four fixing bolts (M6x12) from the belt cover, and then remove the belt cover.
2. Loosen the 2 M8x20 bolts of the engine.
3. Loosen the 4 vertical bolts(engine bolt) and 4 nuts securing the engine slightly.
4. Tighten the 4 horizontal screw (top screw) toward the engine to push it backward.
5. Carefully slide the engine towards the handle bar until the drive belt tension is achieved.
6. Once proper tension is achieved, re-tighten all mounting bolts and nuts securely and belt cover.

Storage

When you are finished using the grinder and it has cooled, you must:

1. Cool engine before storage.
2. Clean the grinder.
3. Inspect for worn or damaged parts.
4. Choose covered storage location.
5. Prevent accidental starting.
6. Plan on exercising the engine at least monthly unless the grinder is prepared for long-term storage.
7. When storing the product, it must be placed in a cool, dry, dust-free place, away from direct sunlight and rain.
8. During product transportation, loading and unloading, it is strictly prohibited to throw, drop, toss, trample and other barbaric operations.

Warranty

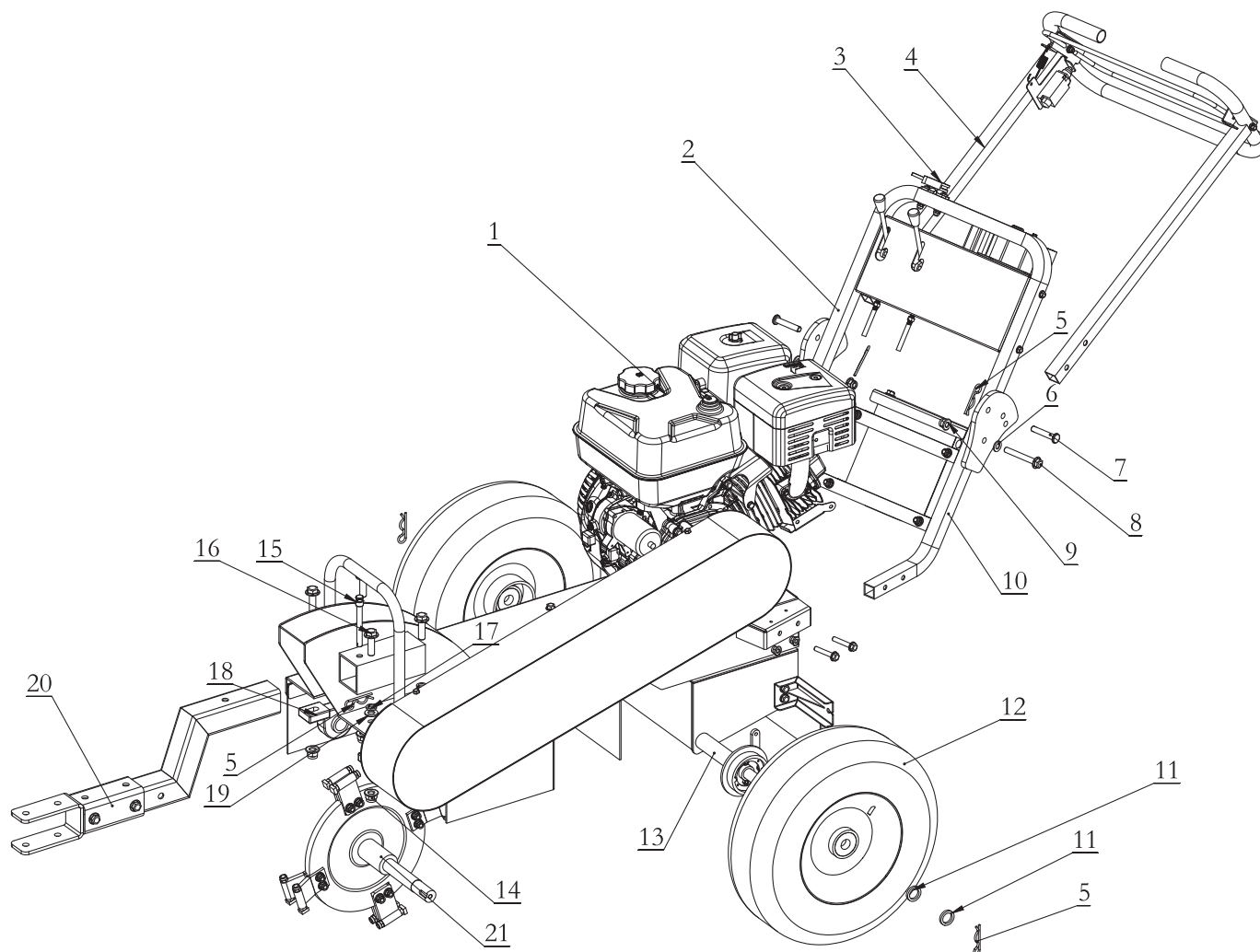
Twelve (12) months for workmanship of the product, except for wearing parts. Warranty period starts from the product purchase date. Warranty covers material quality and workmanship only. Warranty does not cover product for issues caused by improper usage or any operation not in accordance with the specifications of this manual. Any modification or tampering with the product in any way voids the warranty.

Trouble Shooting

Problem	Possible Solution
Engine won't start.	1. Make sure the Operator presence handle has been squeezed. 2. Check Engine oil level. 3. Check Gas level. 4. Follow the engine manual for further trouble shooting.
Unit vibrates.	1. Check if the teeth on the cutter disc assembly are missing or loose. 2. Check the cutter disc pillar rear mounting bolts.
Belt coming off.	1. Pulleys not aligned. 2. Belt tension is insufficient. Adjust belt tension.
Belt engages late or slips.	1. Reduce cutting depth.
The cutter discs does not rotate.	1. Belt tension is insufficient. Adjust belt tension. 2. Clutch is worn - replace shoes and springs, or clutch bearings.

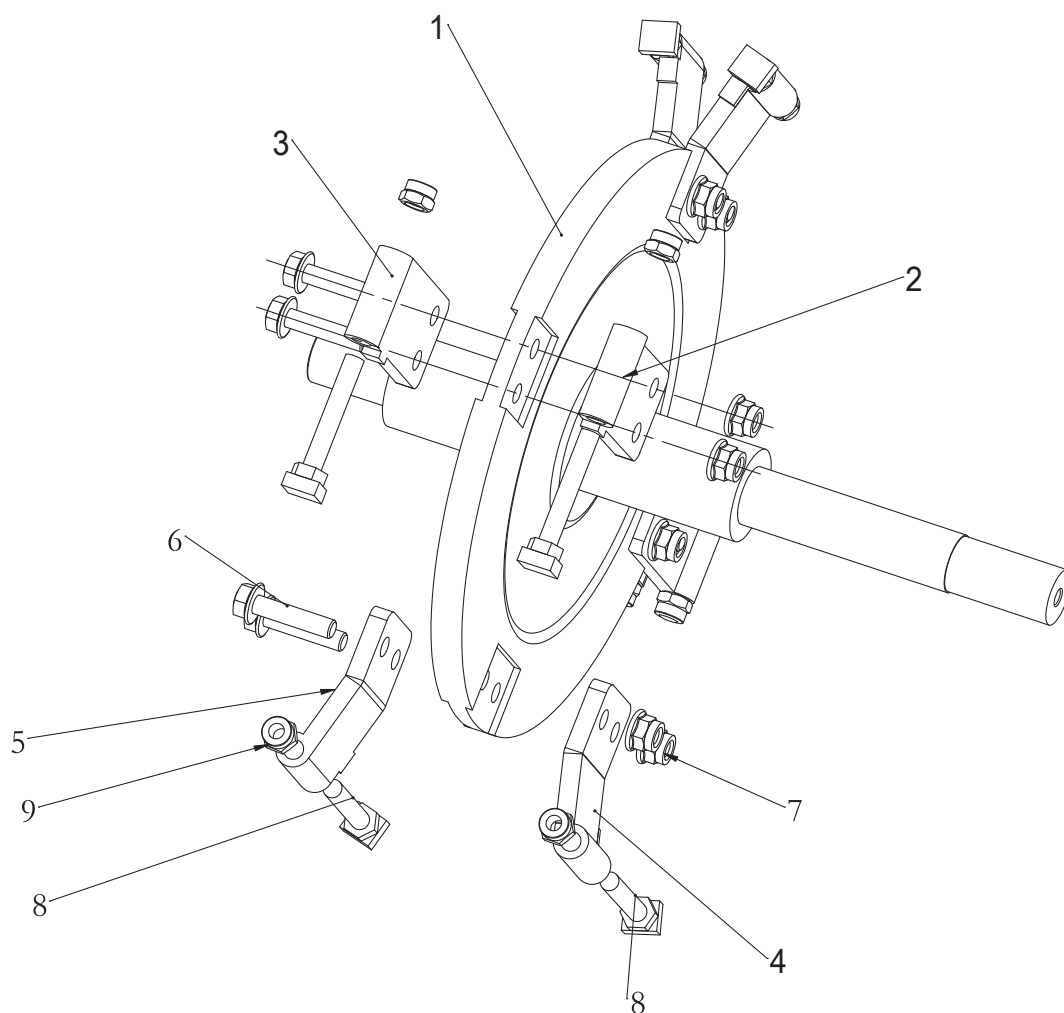
Note: Follow your engine manual for further engine troubleshooting.

Exploded and Parts List



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Engine Assembly Kit	1	12	Wheel	2
2	Bottom Handle Bar	1	13	Axle Assembly	1
3	Throttle Grip	1	14	Nut M12	4
4	Upper Handle Bar	1	15	Pin 10x85	1
5	R-pin	5	16	Bolt M12x40	4
6	Φ 10 Flat Washer	2	17	12 Standard Elastic Washer	4
7	Pin 10x50	2	18	Vertical Bearing Seat	2
8	Bolt M10x75	2	19	12 Flat Washer	4
9	Nut M10	2	20	Towbar	1
10	Battery Box	1	21	Cutter Disc Assembly	1
11	Φ 20 Flat Washer	4			

Cutter Disc Assembly



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Cutter Disc	1	6	Bolt M8x35	8
2	Middle Blade R	2	7	Nut M8	8
3	Middle Blade L	2	8	Blade bolt	8
4	Side Blade R	2	9	M8 Metal Lock Nut	8
5	Side Blade L	2			



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