



PK0803-GEH Stump Grinder w/ Electric Start / Green Teeth Compatible / Hour Meter



OWNER'S MANUAL AND OPERATIONS GUIDE



WARNING: This product can expose you to chemicals including benzene, carbon monoxide, and lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Contents

.....	1
Preface	3
Safety Precautions	4
Fuel Safety	5
Getting to Know Your Stump Grinder	6
OPERATIONS	10
Adding Oil to the Engine	10
Starting the Engine	11
Removing Stumps	11
Operating Tips	12
Removing Roots	13
Cutting the Full Stump	14
Shutting Off the Grinder	14
Standard Shutdown Procedure	14
Emergency Shutdown Procedure	15
Emergency Stop Reset	15
Maintenance	16
Transportation	16
Green Teeth Compatibility	16
Cutting Teeth	17
Belts	17
Specifications	17
Stump Grinder	17
Engine	18
Brake Assembly	18
Assembly	22



Preface

Thanks for purchasing the Power King Stump Grinder by QV Tools!

To get the most out of your purchase, please read the manual carefully and familiarize yourself with this product before operating the stump grinder.

After reading, please store this instructional manual for future reference.

If you have any questions or concerns, **please call us at 1-800-344-3371 or email support@qvtools.com.**

For latest information, check us out at

<https://www.youtube.com/c/powerkingbyqvtools>



<https://www.QVTools.com>



WARNING! Failure to follow the proper protocols listed in the manual may cause personal injury to the operator or damage the equipment.



Safety Precautions

- ☐ Work area should be clean and well lit.
- ☐ Do not operate the stump grinder in the presence of flammable liquids, gasses, or dust.
- ☐ Keep children and bystanders at least 50 feet away while operating the stump grinder. Stop the engine when another person or pet approaches.
- ☐ Only responsible, properly instructed individuals should operate this machine.
- ☐ Inexperienced operators must always be carefully supervised.
- ☐ Do not expose the stump grinder to rain or wet conditions.
- ☐ Stay alert, watch what you are doing and use common sense when operating a stump grinder. Do not use a stump grinder while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating any stump grinder may result in serious personal injury.
- ☐ Use safety equipment. Always wear eye protection. Safety equipment such as a dust-mask, non-skid safety shoes, hard hat, and hearing protection used for appropriate conditions will reduce risk of personal injuries.
- ☐ Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- ☐ Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.
- ☐ Do not start the engine until the machine is in the cutting position next to the stump.
- ☐ Do not overreach. Keep proper footing and balance at all times. This enables better control of the stump grinder in unexpected situations.
- ☐ If devices are provided for the collection of dust extraction, ensure that that these devices are connected and properly used. Use of one of these devices can reduce dust related hazards.
- ☐ Check stumps to be removed for embedded nails, wire, metal fence posts, rocks, and other buried impediments which may become dangerously thrown or cause unexpected machine movements when hit by the cutting wheel.



- ❑ Make sure that all shields and guards are in place and are in good condition prior to operating the machine. Check the cutting wheel for damage or missing teeth and replace as necessary.
- ❑ Ensure that everyone in the vicinity is aware of the **danger zone** associated with this machine. Any person must avoid the **danger zone** at all times when the machine is in operation.



- ❑ Make sure that no one is working on, underneath, or close to the machine before starting the engine or beginning to move the machine. Make sure that the area is free of personnel.
- ❑ Don't make alterations or modifications to your stump grinder.
- ❑ Check with your local council and utility providers for the locations of buried pipes and cables where applicable. Do this before operating the machine.

Fuel Safety

WARNING! Pay attention and use extreme care while handling fuel. Fuel is extremely flammable and the vapors are highly explosive.

- ❑ Never remove the fuel cap or add fuel with the machine running. Stop the engine and allow engine and exhaust components to cool before refueling or storing.
- ❑ Add fuel outdoors in an open area. Do not smoke while adding fuel.
- ❑ Fill your engine with engine oil (check Kohler Manual for oil type) before use or serious damage will occur.



- ❑ Never refuel or store the machine in a place where there is an open flame, spark, or other ignitable objects.
- ❑ If you spill gasoline, do not attempt to start the engine. Move the machine away from the area of the spill and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
- ❑ Always make sure the fuel cap is securely tightened and replace before starting.
- ❑ If the fuel tank needs to be drained, it should be done outdoors.
- ❑ The muffler and engine become very hot and can cause severe burn. Do not touch.

Getting to Know Your Stump Grinder



Adjustable control handle with emergency palm stop switch and emergency pull switch. Used to stop the machine immediately.





Precision Control Brake for pivot grinding. Stops the left tire from rotating and lets you do wide sweeps across the stumps.



Locking throttle adjustment. Used to raise and lower engine and grinding wheel speed.



Clamp for adjustable bow handle. Used to loosen the bow handle, make adjustment to bow handle, and tighten to keep secure.





Top lever is Choke and bottom lever is Fuel. Choke is used to close the air way and enrich the fuel mixture ratio. This is used during cold starts to assist the engine during start up. The Fuel lever is to allow fuel from the gas tank to the carb. It is also used to shut off the machine.



Engine recoil starter. Used to pull start the engine.



Oil reservoir dip stick. There is one on each side of the engine and they both go into the same reservoir. This is used to fill the engine with oil. Can also be used to check and make sure the correct amount of oil is used. The bolt on the bottom left of the photo is used to drain the oil. Use aluminum foil to direct the oil to a container to keep the unit clean.





Storage stand. Used for long term storage to protect the teeth.



Grinding wheel. Used for grinding the stump.



Lift handles. Used to assist when carrying the unit into a trailer.





Engine belt adjuster. Used to move the engine forwards and back to tighten or loosen the belt. Loosen the 4 nuts holding the engine to the frame, then make adjustments with this handle.



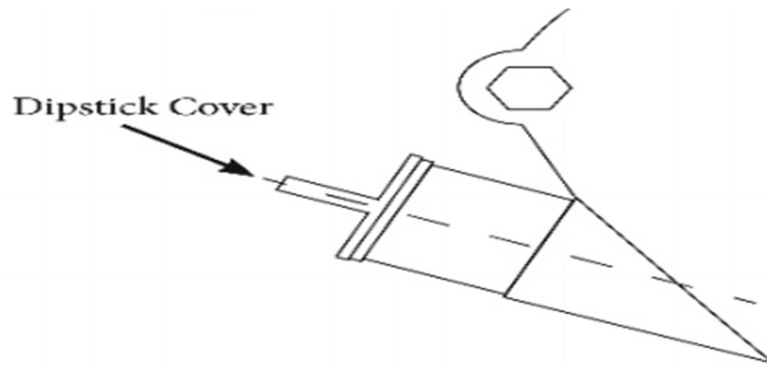
Pillar bearing. These bearings let the grinding wheel spin. Grease the bearings about once per season using bearing grease.

Operations

Adding Oil to the Engine

1. Only fill the fuel tank to a level 15mm lower than the top of the fuel tank. Do not overfill.
2. Use the dipstick to check the oil level. Use 10w-30 engine oil (Kohler manual will list other options depending on environment). Fill to the correct level before use.
3. Both yellow fill plugs go to the same reservoir. Fill with whichever side is accessible.





NOTE: The engine is shipped without oil. Operating the engine with no oil or oil at a low level will destroy the engine. This is **not** covered under warranty.

Starting the Engine

- ☐ Lock the travel wheel by pulling the brake lever back fully.
- ☐ Make sure throttle is in **slow** position.
- ☐ Make sure emergency stop pull is installed and palm stop switch is reset by twisting right.

Do not allow the rope to snap back. Set it back by hand to prevent damage to the starter.

- ☐ If the engine is cold, move the choke lever to the closed position.
- ☐ Raise the cutter wheel 4 to 5 inches off the ground by pushing downwards on the handle bar and hold it in that position.

This next step may cause the cutter wheel to rotate. Keep everyone away.

- ☐ Pull the starter rope lightly until you feel resistance, then pull briskly.
- ☐ Or insert key in ignition and turn to start position. Once the engine fires, release key and it will go to the on position.
- ☐ Move the choke lever to the open position.

The next step causes the cutter wheel to rotate. Again, keep everyone away.

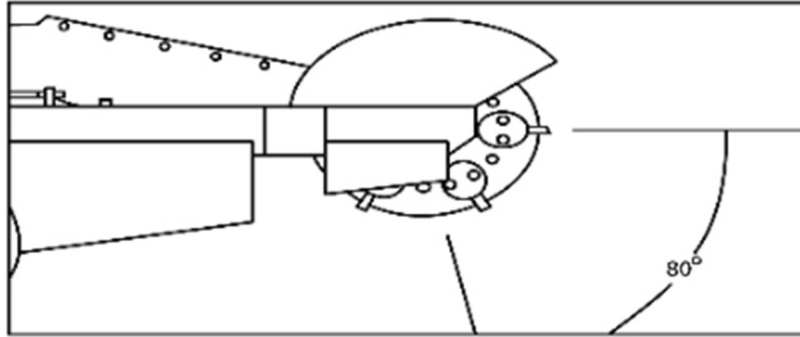
- ☐ Move the throttle to fast. If the engine is cold, allow the engine to idle (throttle set to slow) for a few minutes before cutting.

Removing Stumps

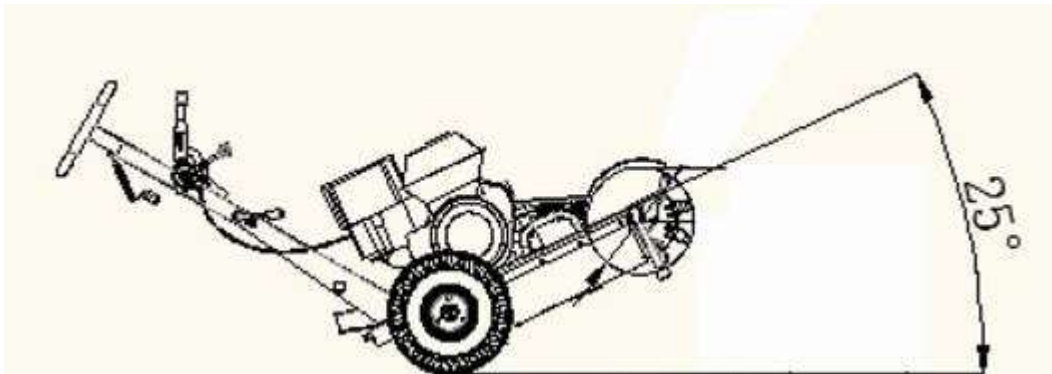
- ☐ Remove all loose pieces of wood, stones, wire and other debris from the area before beginning stump removal.
- ☐ Wind direction should be considered, as it will influence the direction in which dust and wood chips are directed.



- ❑ Never operate the grinder after dark. There will be no adequate light for the operator to use the grinder safely.
- ❑ Always allow a cold engine time to warm up before cutting a stump.
- ❑ Only the portion of cutting wheel within the 80-degree area shown below should engage the stump. Never undercut the stump or use the bottom of the cutting wheel for cutting purposes.



- ❑ Never leave controls when the cutting wheel is rotating.
- ❑ Do not angle engine more than 25 degrees while in operation. Doing so can cause damage to the engine.



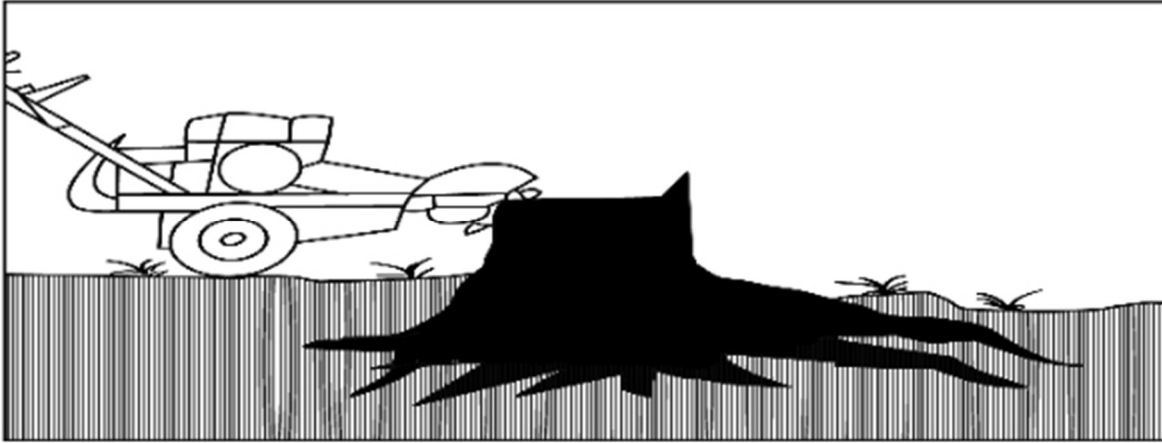
Operating Tips

- ❖ Use smooth and comfortable side to side movements while operating.
- ❖ When you need to cut smaller roots, it may be more effective to do so before cutting the stump, rather than after.
- ❖ Should the chip build-up become excessive when cutting, shut off the machine, wait for the cutting wheel to stop rotating, retract the machine from the stump and rake away the chips. It is also possible to use the cutter wheel to push chips off the side.



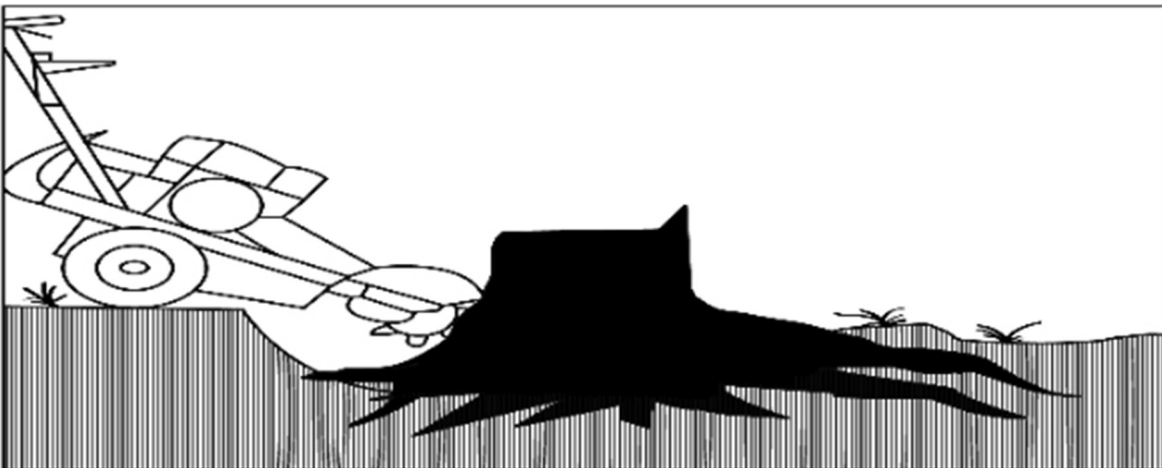
- ❖ In order to prevent any of the wheels becoming stuck in the hole. Move the grinder to the other side of the stump to continue removal or by filling the hole with chips before continuing.

You will want to prepare the grinder at the stump by placing it into position with the cutting wheel near the top edge of the stump. (See image below)



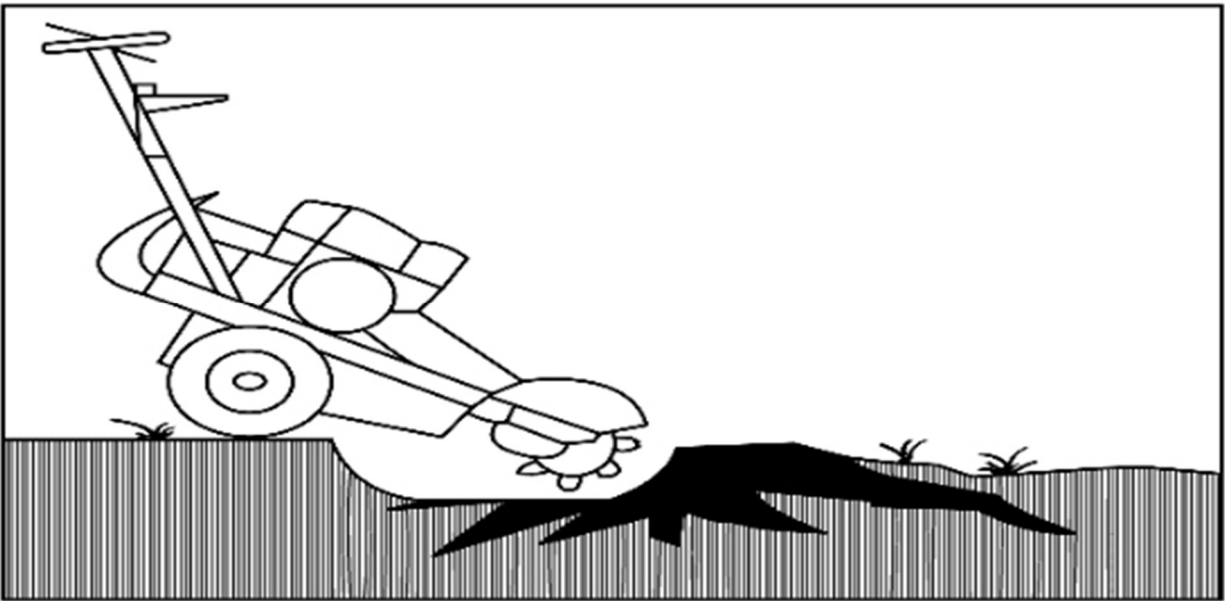
Removing Roots

1. Make sure the throttle is set to **fast**. The cutter wheel will accelerate to cutting speed.
2. Swing the cutting wheel to one side, then lower it into the nearest roots that are buried at the foot of the stump.
3. Swing the cutting wheel before each sweep until the roots are sufficiently removed.



Cutting the Full Stump

1. Make sure the throttle is set to **fast**. The cutter wheel will accelerate to cutting speed.
2. Direct the cutter wheel against the stump, beginning with the nearest top corner of the stump. Steadily sweep it across the stump left and right, cutting away a ½ inch of wood with each sweep.
3. Raise and lower the cutter wheel between sweeps by lowering and raising the control handle.
4. Roll the machine forward and back by pushing and pulling on the control handle. To do this, release the brake. Relock it when the machine has been repositioned and continue cutting.



Continue with the final removal of roots

Cut the remaining roots as described in step 2 until satisfactorily removed.

Shutting Off the Grinder

1. When stopping the machine after normal operation, lower the engine speed to **slow** and press the emergency switch.
2. Set the brake before leaving the controls.
3. The fuel line lever is also an On/Off switch for the engine.

Standard Shutdown Procedure

In consideration of your own safety and that of other, you should always use the following normal shutdown procedures before departing from the controls for any



reason including cleaning, servicing, transporting, or inspecting the stump grinder. Never deviate from this procedure unless instructed in this manual or in an emergency that requires it.

WARNING! A rotating cutting wheel is very dangerous. Stand at controls and ensure that the cutting wheel comes to a complete stop before doing anything else.

1. Move the engine throttle to the **slow** position.
2. Push the emergency (on/off) switch to stop the engine.
3. Set park brake before leaving controls.

Emergency Shutdown Procedure

1. Immediately press the emergency (on/off) switch to stop the engine.
2. Be sure to allow all moving parts to come to a complete stop.
3. Pull the brake lever to engage the brake.
4. Rectify the emergency situation and return to normal operation.

Emergency Stop Reset

Reinstall emergency stop pull and twist the palm stop switch to the right. Palm stop switch will pop up when reset.



Maintenance

- ❑ Make sure all nuts, bolts, and screws are tightened.
- ❑ Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark. Allow the engine to cool before moving the grinder.
- ❑ To reduce fire hazards, keep the engine and petrol storage area free of grass, dirt, and excessive grease.
- ❑ Replace worn or damaged parts for safety. If the fuel tank has to be drained, this should be outdoors.
- ❑ Regularly check the oil level and add some oil or replace it if necessary.
- ❑ Frequently check the grinder and ensure that all bark and dirt deposits are removed from beneath the deck.
- ❑ Lubricate the wheel axle and the bearings with grease about once per season.
- ❑ Check the cutting wheel often. In order to achieve clean work, the blade should always be sharp and well balanced.
- ❑ Check the tightening of all bolts and screws at regular intervals. Nuts and bolts that are worn out or badly tightened can damage the engine or the frame.
- ❑ If the grinder hits an obstacle violently, stop the grinder and take it to a specialist for inspection.

Transportation

The stump grinder is designed to be transported via a van or small trailer. The machine is equipped with grab bars that are to be used for both lifting the machine and strapping it down. This machine weighs approximately 240lbs (110kg) and should only be lifted using correct apparatus or an adequate number of people working as a team.

There are legal road requirements for towing equipment and trailers (such as lighting and licensing). It is the owner's responsibility to be aware of these laws and to adhere to them.

Green Teeth Compatibility

The installed cutting wheel can support Green Teeth's 500 Series Pockets.

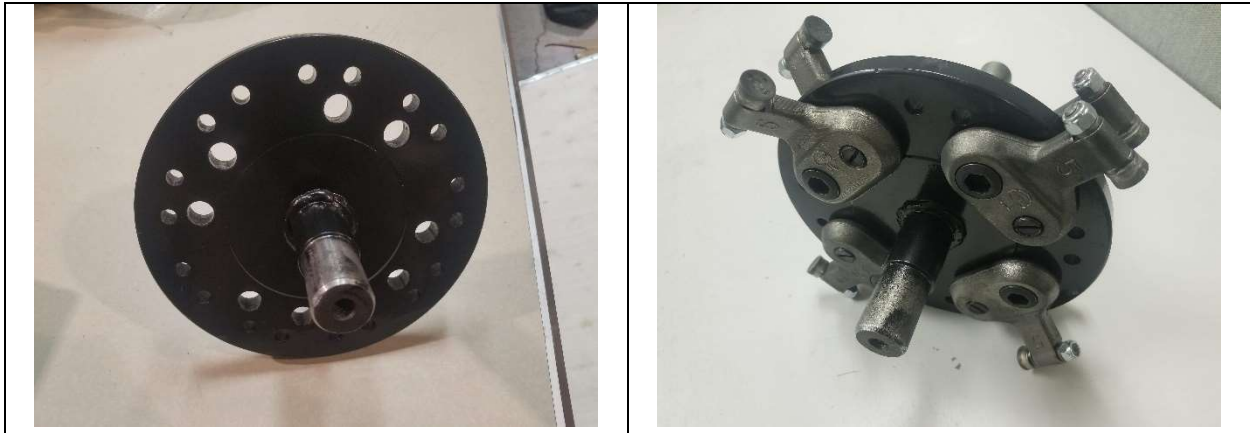
783554.DOS - 500 Series LoPro Pocket – Angle – qty 2

784165.DOS - 500 Series LoPro Pocket – Straight – qty 2

783555-2.DOS – LoPro Bolts 2" – qty 8



783557.DOS – 500 Series Standard Dish Green Tooth w/ Nut – qty 4



Cutting Teeth

To ensure prolonged life and reliability, we recommend to torque the cutting teeth bolts to 40 ft Lbs. before each use.

Belts

To tension the belts, loosen the 4 nuts that hold the engine to the frame. Turn the tensioning rod on the back of the unit to slide the engine forwards or backwards to properly tension the belts. Once tensioned, tighten the bolts. The tension of the belts should be about 0.5in deflection.

Specifications

Stump Grinder

- ❖ Diameter of Cutting Wheel: 11.8 inch
- ❖ Cutting Wheel Thickness: 3.5" inch
- ❖ Cutting Depth Below Ground: 11 inch
- ❖ Cutting Depth Above Ground: 14 inch
- ❖ Machine Width: 29.9 inch
- ❖ Shipping Weight: 306lbs
- ❖ Teeth: 9pcs
- ❖ Tire Size: 145 / 70 - 6
- ❖ Brake Type: Drum



- ❖ Belts: 2 x B54 V-Belt

Engine

- ❖ Engine Type: Kohler CH440 4-Cycle Commercial
- ❖ Displacement: 429cc
- ❖ Max Output: 14HP/3600RPM
- ❖ Fuel Type: Unleaded 87 Octane or Higher
- ❖ Oil Weight: 10W-30
- ❖ Oil Capacity: 1.4qts

Brake Assembly



Place a floor jack under left rear corner of stump grinder. Lift enough to install tire.



Slide brake pad assembly on to the axle and line up notch to keep from spinning. Brake pad assembly can be found in the green accessory bag.



	Install brake cable end into holder.
	Loosen lock nut and install brake wire and brake adjuster into brake adjuster mount.
	Tighten adjuster and lock nut.



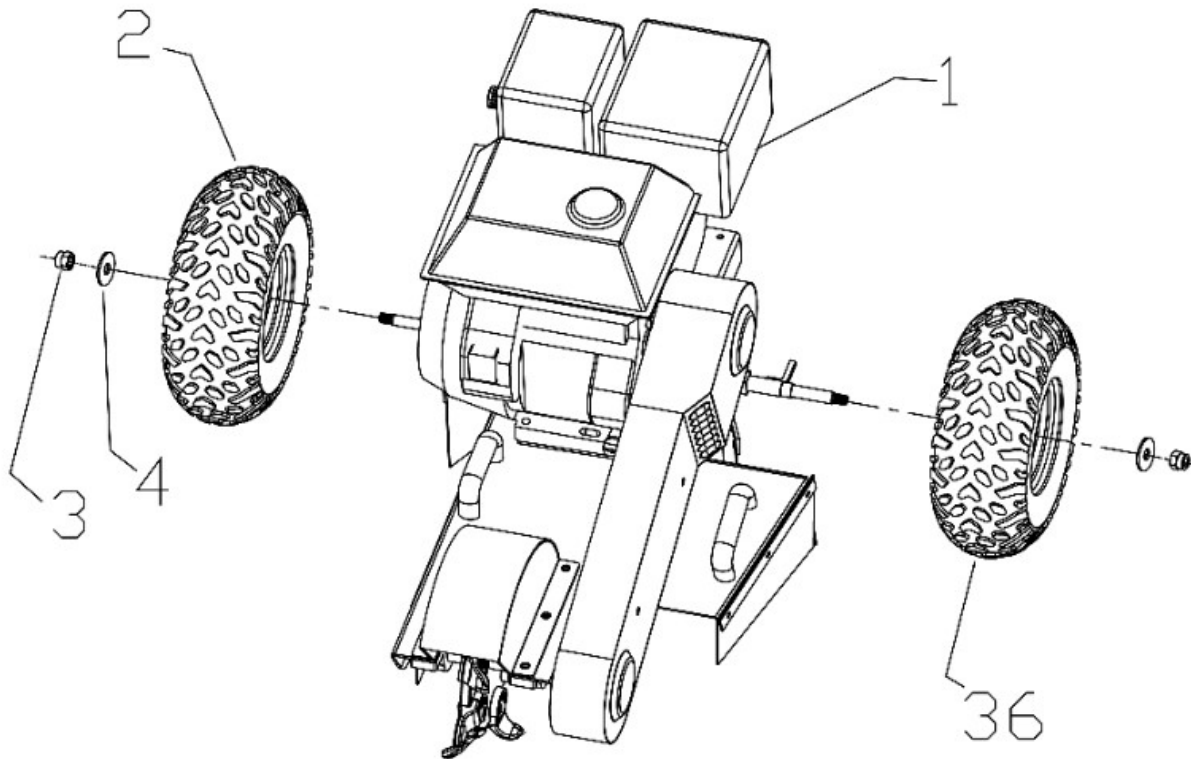
	Adjust barrel adjuster to be able to slide in the brake cable.
	Install bolt, washer, and nut into brake cable/brake arm.
	Install wheel with brake drum.



	Install washer, nut, and cotter/lock pin.
	Adjustments to tightness of brake can be made with the adjustable knob. Left to loosen and right to tighten.

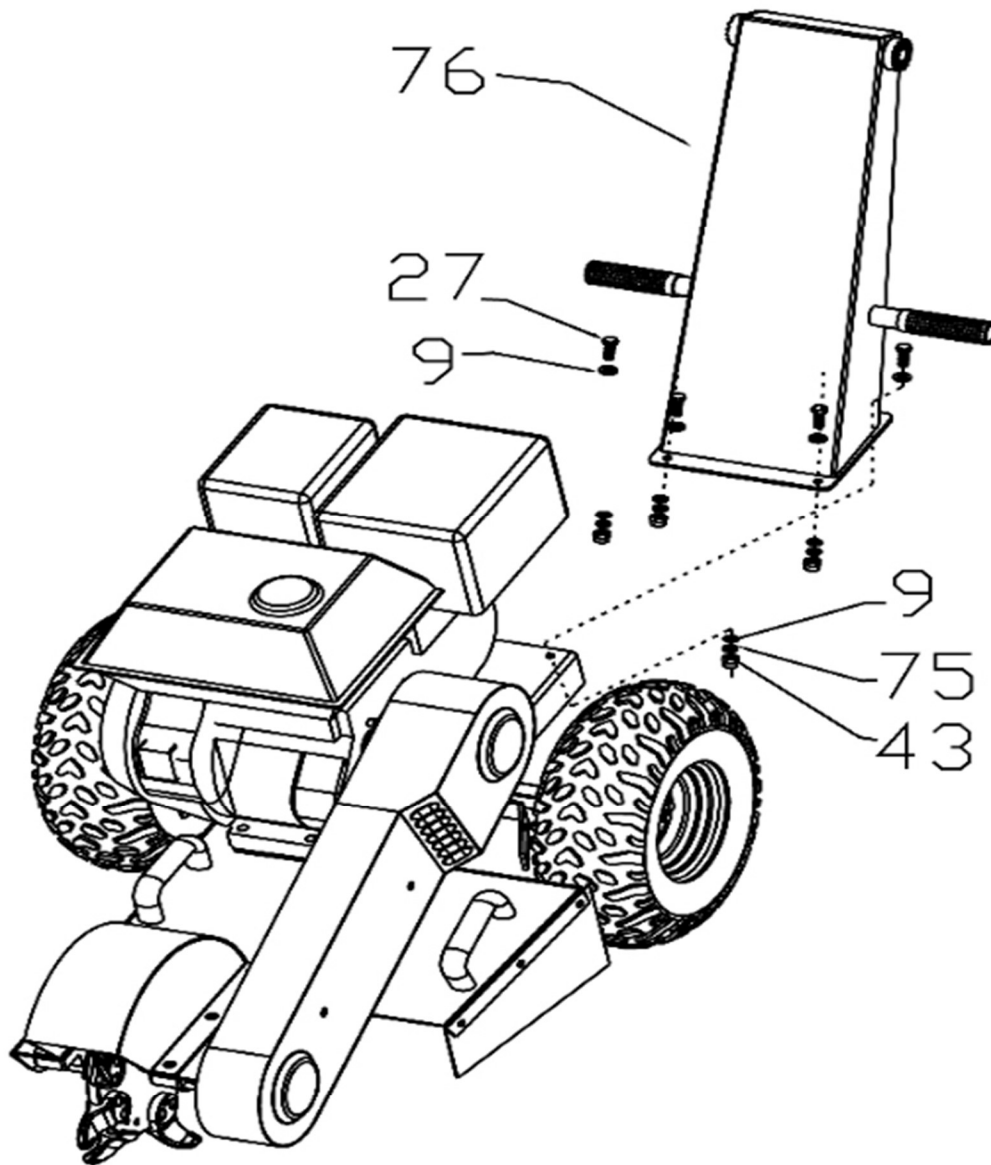


Assembly



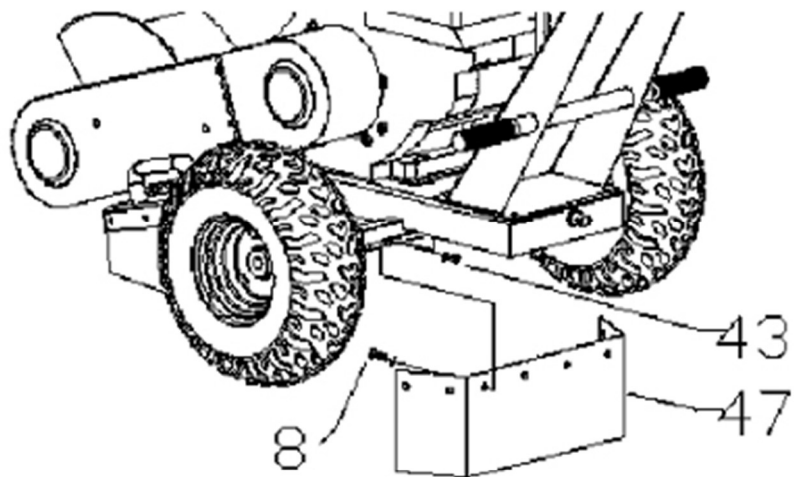
1	2	3	4	36
engine	wheel	Nylon anti loose nut	flat washer	wheel





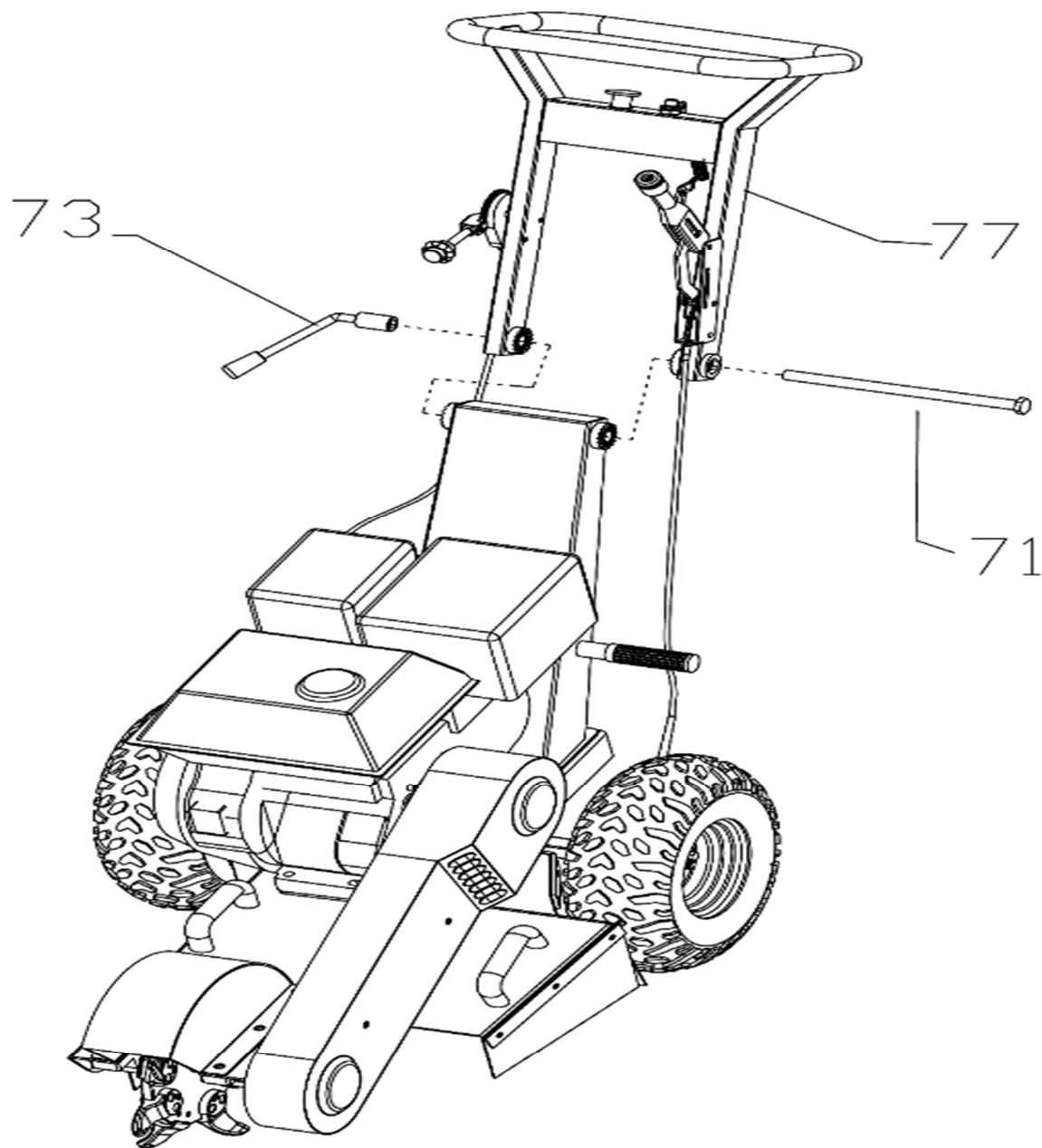
9	27	43	75	76
flat washer	outer six angle bolt	Nylon anti loose nut	spring washer	arm handle





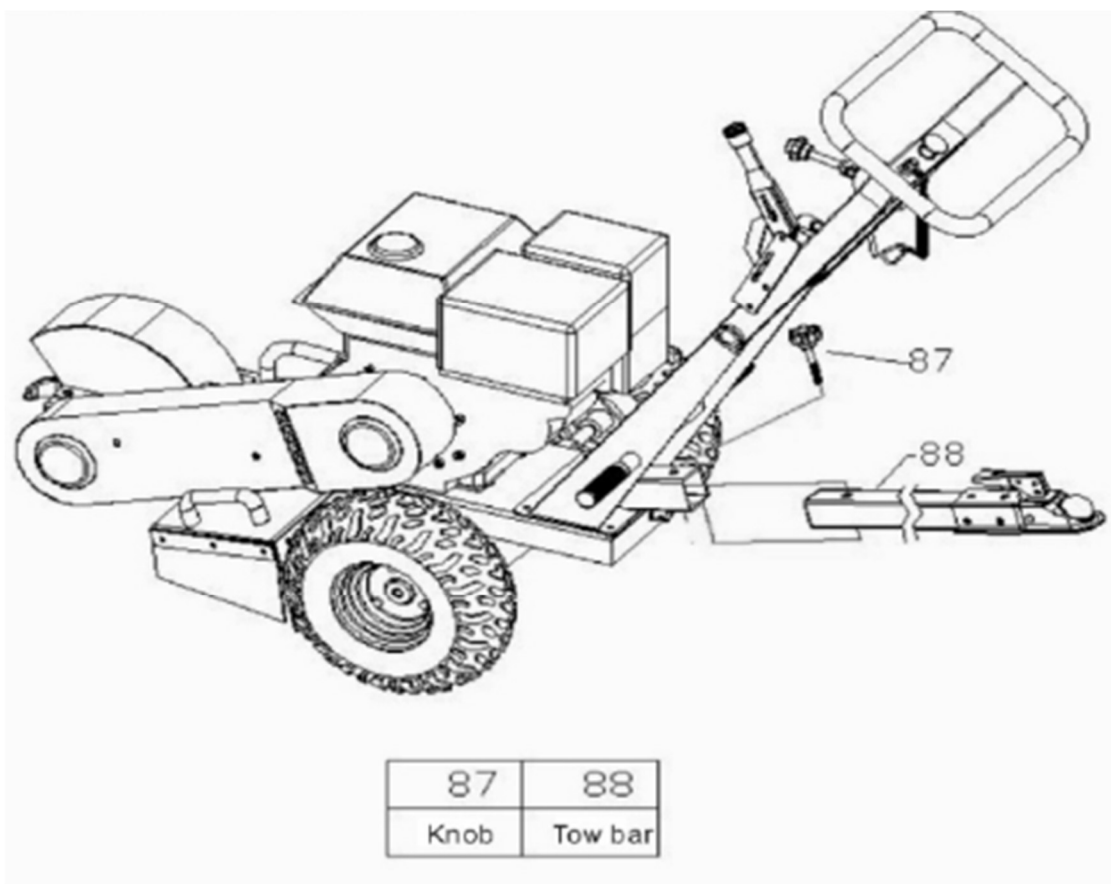
8	43	47
Bolt	lock nut	leather protector

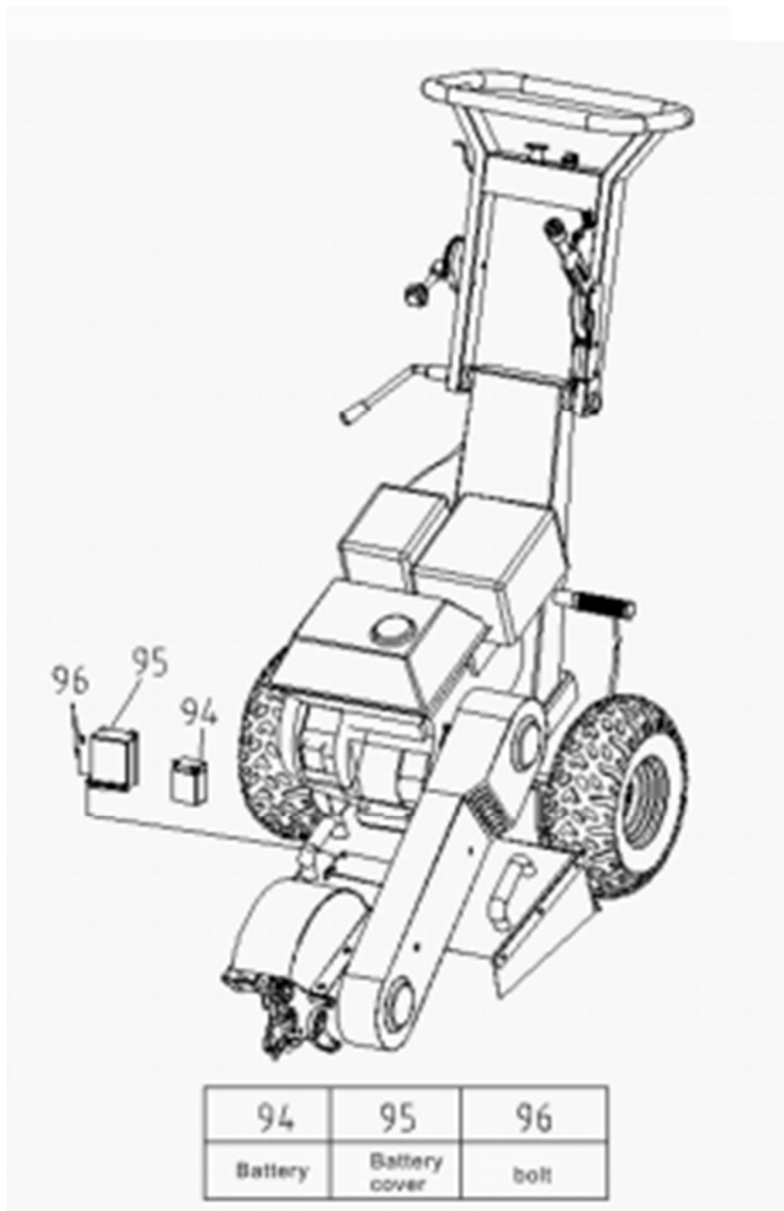




71	73	77
outer six angle bolt	Adjustable handle bar	handle







1. Red wire goes to positive terminal.
2. Black wire goes to negative terminal.
3. Plastic cover is secured to pedestal with locking lip and 2 bolts.



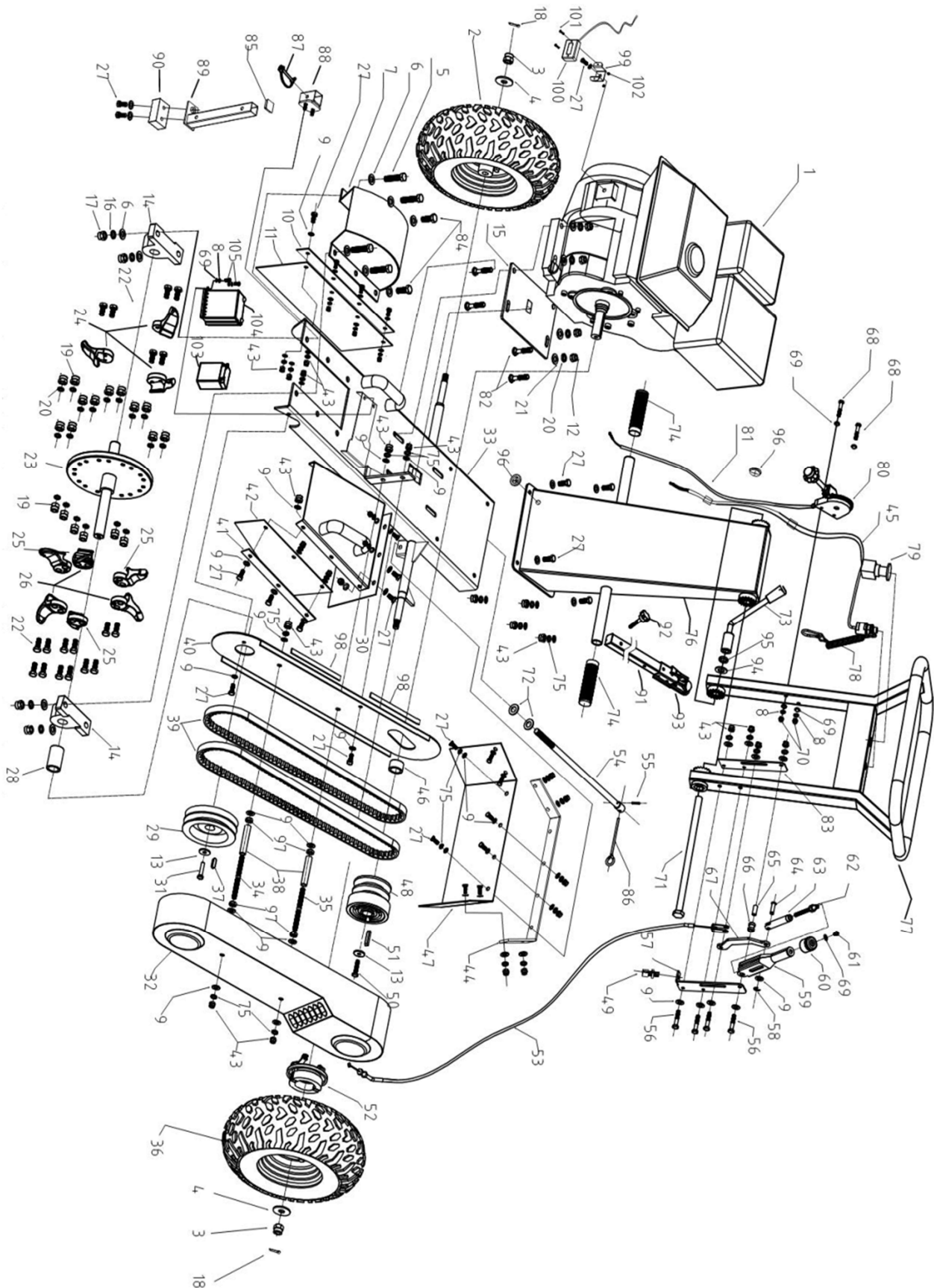
Connect Emergency Stop Wiring



Place the stand when in storage

Do not make any adjustments to stand when engine is running or when starting engine





Part No.	Description	Part No.	Description
1	engine	54	Adjustment screw
2	right tyre	55	Cylindrical spring pin
3	lock nut	56	bolt
4	washer	57	mounting plate for handbrake
5	bolt	58	Shaft ring
6	washer	59	handbrake
7	protector for cut plate	60	handbrake cap
8	spring washer	61	bolt
9	washer	62	Threaded rod
10	side plate	63	Connecting pipe
11	protect sheet	64	Axle pin
12	lock nut	65	Liner
13	washer	66	spacer sleeve
14	bearing with block	67	Connecting plate
15	engine plate	68	bolt
16	spring washer	69	washer
17	lock nut	70	lock nut
18	pin	71	bolt
19	nut	72	washer
20	spring washer	73	Angle adjustment handle
21	washer	74	Handlebar cover
22	bolt	75	spring washer
23	cut plate	76	handrail support
24	right teeth	77	handle
25	straight teeth	78	safety rope switch
26	left teeth	79	safety switch
27	bolt	80	throttle
28	bushing	81	Throttle Cable
29	big pulley	82	bolt
30	protect sheet	83	Inner mounting plate
31	bolt	84	bolt
32	belt cover	85	plug
33	frame	86	rocking bar
34	bolt	87	D-pin
35	bolt	88	plate for stand foot
36	left tyre	89	stand foot
37	key	90	rubber
38	bushing	91	tow bar
39	belt	92	knob
40	belt plate	93	hitch



41	side plate	94	washer
42	protect sheet	95	spring washer
43	lock nut	96	protective ring
44	side plate	97	nut
45	safety switch wire	98	strip
46	bushing	99	hour timer plate
47	protect sheet	100	hour timer
48	clutch pulley	101	bolt
49	bolt	102	lock nut
50	bolt	103	battery
51	key	104	battery cover
52	brake disc	105	bolt
53	brake wire		





WARRANTY POLICY

Thank you for choosing QV TOOLS Products. We're here to ensure that your experience is perfect. In some rare instances, you may need some help with a warranty claim.

Please call us at 1-800-344-3371.

Product must be registered to activate the warranty. Warranty registration is below. Warranty begins from date of purchase.

Engine Warranty

Kohler engines are covered with a 3-year commercial and 3-year residential warranty for Command Pro series. Parts and Labor are covered as well. Visit your engine manufacturer for warranty details or visit **www.QVTools.com**.

Equipment Warranty

Manufactures defects of chassis and component parts are covered for 1 year. Only parts are covered. Shipping cost is not covered.

QV Tools will replace any part that is proven to be defective in material or workmanship. This warranty is not valid for products or parts affected or damaged by accident, collision, normal wear, fuel contamination, abuse, neglect, misuse, alteration and/or unsuitable use or unauthorized parts. Transportation charges to and from service centers, if assigned, is not covered. Shipping cost of product for repair is not covered. Labor to repair equipment is not covered. Consumable parts such as brake pads, tires, racks, splines, grinding teeth, blades, bar blades, etc. are not covered under warranty. Power King has all replacement parts at value pricing.

Damaged Products

You must take the time to inspect the goods before you sign the delivery receipt from the carrier. If you sign the delivery receipt without inspecting the shipment, you will be responsible for filing a freight claim and arranging for a repair or return of the damaged goods.

Concealed damage claims must be reported immediately.

Suspected Damage

On occasion, the outer carton may look damaged, but the product inside the box is perfectly fine. If you suspect concealed damage, notate **"Possible Freight Damage" on the delivery receipt while the driver is present. This way, if you discover later that the product is damaged, the remedy of a freight claim is less of a hassle.**

Obvious Damage

Do not sign for damaged products. If your product arrives damaged, **please (a) REFUSE DELIVERY and (b) Call where you purchased the item Immediately so the dealer can process the appropriate claims and coordinate an exchange for you.**

Defective Products

We encourage you to test your product within 15 days of receipt so we can quickly remedy any mechanical problems. If you think your product is defective, **call QVTools at 1-800-344-3371**. In most cases, it's a simple issue that can be resolved over the phone. We have expert technicians standing by to help resolve your issue. Please have your model number and serial number available and your proof of purchase receipt for faster service.

Original Owner Warranty

Warranty is non-transferable and covers the original owner only who purchased from a QVTOOLS authorized dealer.

