

POWERHORSE®

212cc Stump Grinder

Owner's Manual



⚠ WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item 5858444

READ & SAVE THESE INSTRUCTIONS

Thank you very much for choosing a Powerhorse product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code (if applicable): _____

Purchase Date: _____

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This product is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call **1-800-222-5381**.

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Intended Use

A stump grinder is a powerful machine used to remove tree stumps from the ground. It is equipped with a rotating cutting disk that grinds away at the stump until it is reduced to wood chips or sawdust.

The primary function of a stump grinder is to eliminate tree stumps that are left after a tree has been cut down. By grinding the stump down to a lower level, it effectively removes the visible portion of the stump and also the root system beneath the ground. This helps to prevent regrowth and allows for the area to be used for other purposes.

There are several benefits to using a stump grinder. Firstly, it improves the appearance of the landscape by removing unsightly stumps. It also eliminates potential safety hazards, as stumps can be tripping hazards and can damage lawnmowers or other equipment. Moreover, grinding stumps prevents the growth of new shoots and roots which can be a nuisance for property owners.

Some examples of when a stump grinder may be used include:

- After tree removal: When a tree has been cut down, grinding the stump is often the next step to help restore the area and ensure no regrowth occurs.
- Landscaping and construction projects: Stump grinding is commonly used in landscaping projects or construction sites where trees have been cleared to make way for new structures or designs.
- Property maintenance: Homeowners or property owners may use a stump grinder to eliminate existing stumps on their land and improve the overall appearance and safety of the property.

In summary, a stump grinder is a useful tool for removing tree stumps by grinding them down into wood chips or sawdust. It has the functions of eliminating stumps, preventing regrowth, improving the

landscape, and enhancing safety. It is commonly used after tree removal, in landscaping and construction projects, and for property maintenance.

Packaging Contents

- main body (1)
- handrail bottom part (1)
- handrail top part (1)
- rubber pad (1)
- rear mudguard (1)
- adjust screw (1)
- wheel(left/right) (2)
- manual bag (1)
- desiccant bag (1)

Technical Specifications

Property	Specification
Engine	212cc, 4-Stroke
Brake	Hole Brake
Belt	2pc V Belt
clutch	Centrifugal Clutch
Blades	6 Blades W Tungsten (2 x left,2 x right,2 x middle)
packing size	39 X 22.8 X 31.5in
Gross weight	195 lbs.
Net Weight	167 lbs.

Important Safety Information

⚠ **WARNING**

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was

intended. DO NOT use this equipment for a purpose for which it was not intended.

- Industrial or commercial applications must follow OSHA requirements.

⚠WARNING

PROP 65

California Proposition 65 WARNING:

- Crude oil , gasoline , diesel,fuel and other petroleum products can expose you to chemicals such as toluene and benzene that are 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

⚠WARNING

WORK AREA SAFETY

- keep the working area clean and well lit.
- Do not operate the stump grinder in the presence of flammable liquids, gases or dust.
- keep children and bystanders away while operating the stump grinder. keep the area free of all distractions.
- Only responsible properly instructed individuals should operate this machine.
- Inexperienced operators must always be carefully supervised.
- Do not expose stump grinders to rain or wet conditions.

⚠WARNING

PERSONAL SAFETY

- 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 grinders may result in serious personal injury.
- Use safety equipment. Always wear eye protection. safety equipment such as dust mask, non - skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce 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 longhair can be caught in moving parts.
- Always wear earplugs to protect your ears.
- Do not start the engine until the machine is in the cutting position next to the stump.
- Do not overreach. Always keep proper footing and balance. This enables better control of the

stump grinder in unexpected situations.

- If devices are provided for the collection of dust extraction, ensure these are connected and properly used. use of these devices can reduce dust related hazards.
- Check stumps to be removed for embedded nails, wire, metal fence posts and other metallic objects and for rocks or 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 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 (see diagram). You must always avoid the danger zone when the machine is in operation.
- Make sure that no one is working 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 any 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, before operating the machine.

⚠ CAUTION

PRODUCT USE AND CARE

- Make sure all nuts, bolts and screws are tightened before use.
- 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. the fuel tank must be drained; this should be done 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 before use, with grease regularly check the cutting wheel often. 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 violent stop the grinder and take it to a specialist for inspection.
- Stop engine immediately when the cutting wheel is stuck and cannot running.
- Store the product when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure

than the tool itself.

- Keep guards in place and in working order. Never operate the product without the guards in place.
- Do not leave the tool running unattended.

Specific Operation Warnings

⚠WARNING

- This machine can cause serious injury to the operator and bystanders. The warning and safety instructions in this manual must be followed to provide reasonable safety and efficiency in using and storing. The operator is responsible for following the warnings and instructions in this manual and the stump grinder. Read the entire Operator's Manual before using this stump grinder! Restrict the use of this trencher to persons who read, understand, and follow the warnings and instructions in this manual and on the stump grinder. If you have not read and understand the warnings and instructions in this manual and on the trencher, you are not qualified to operate this stump grinder! Become familiar with the operation and service recommendations to ensure the best performance of your machine.

Fuel Safety

⚠WARNING

- Pay attention while handling fuel. They are flammable and the vapors are highly explosive.
- Never remove the fuel cap or add fuel with the power running. stop the engine and allow engine and exhaust components to cool before refueling.
- Do not smoke while adding fuel.
- Fill your engine with 10w- 30/ 10w-40/ 15w- 30/ 15w-40 non-synthetic engine oil before use or serious damage will occur.
- Use extreme care when handling fuel. Fuel is extremely flammable, and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running.
- Never refuel or store the machine in a place where there is open flame, spark, or other ignition objects.
- Do not attempt to start the engine if fuel is spilled. wipe away the spillage and ensure all fuel has dried before starting the machine.
- 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.

Main Parts of Stump Grinder

Subassembly
Main body
Handrail bottom part
Handrail top part
Rubber pad
Rear mudguard
Adjust screw
Wheel(left/right)

Assembly Instructions

⚠WARNING

- Read and understand all instructions, safety precautions, and/or warnings listed in “Important safety information” and “Specific Operation Warning before operating the STUMP GRINDER. If any doubt or question arises about the correct or safe method of performing anything found in this manual, please contact the dealers in your area.
- Before loading and operating the Stump Grinder, always wear protective gear, including safety goggles, hearing protection, tight-fitting gloves without draw strings or loose cuffs, and steel-toed shoes.

All part when unpacked:(may slight different because of customized)



Step 1: Assemble Left Wheel:



Step 2: Assemble Right wheel:



Step 3: Assemble handrail bottom part:



Step 4: Assemble handrail top part:



Step 5: Assemble Rear mudguard:



After machine Assembled:



Before Each Use

⚠WARNING

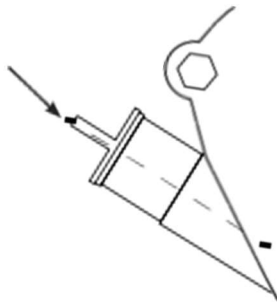
- Operators must be fully trained before using this machine.
- User Manual is read and understood.
- Teeth are in good condition and secure. All teeth are checked or replaced in sets.
- All fasteners are checked for tightness.

ADDING OIL TO THE ENGINE

- Only fill the fuel tank to a level 15mm lower than the top of the fuel tank. Do not over fill.

- Use the dipstick to check the oil level. use 10w- 30/ 10w-40/ 15w- 30/ 15w-40 non-synthetic engine oil. Fill to the correct level before use.

Dipstick cover



- The engine is shipped without oil. Fill to the correct level before use 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 travel wheel by pulling brake lever fully back.
- Make sure throttle is in slow position.

Do not allow the rope to snap back, return it 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 of the ground by pushing downwards on the handle bar, hold it in that position.

The next step may cause the cutter wheel to rotate, keep everyone away:

- Pull the starter rope lightly until resistance is felt then pull briskly.
- Move the choke lever to the open position.

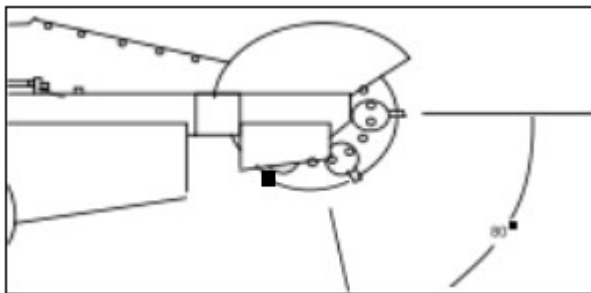
The next step causes the cutter wheel to rotate, keep everyone away:

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.

-

REMOVE 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 influences the direction in which dust and woodchips 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 above 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.

Operating Instructions

⚠ WARNING

- The bearing of cutting wheel should be lubricated before use.
- Stop engine immediately when the cutting wheel is stuck and cannot running.
- Before use, be sure to tighten the screws on the cutting wheel.
- Always maintain strict discipline and service machine at specified periods.
- Keep body parts, foreign objects and clothing clear of rotating auger.
- Encountering buried utilities while stumping can cause severe injuries or DEATH.
- Contact appropriate utility representatives to determine if/where electrical cables, gas lines, water lines, etc. are buried BEFORE operation.
- DO NOT operate the machine whilst under the influence of alcohol or drugs.

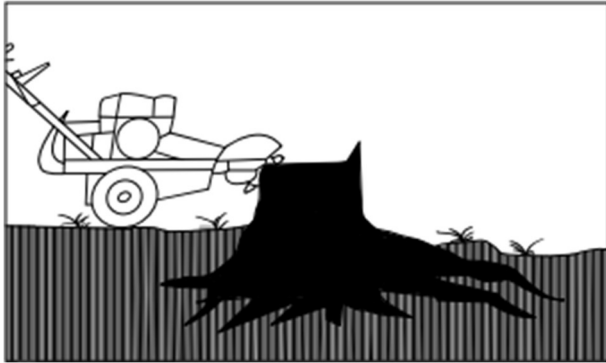
1.use smooth, comfortable side to side movements while operating.

2.when it is desired to cut smaller roots, it may be more effective to do so before rather than after cutting the stump.

3. should the chip build-up become excessive when cutting, shut of the machine wait for the cutting. wheel to stop rotating retract the machine from the stump and rake away the chips. It's also possible. to use the cutter wheel to push chips of to the side.

4. 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 prepare the grinder at the stump.

5. place it into position with the cutting wheel near the top edge of the stump.

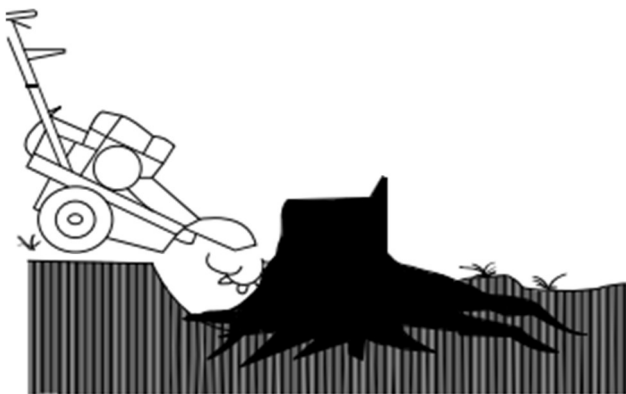


Removing roots

1. Make sure the throttle is set to fast speed, so 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 sufficient removed.



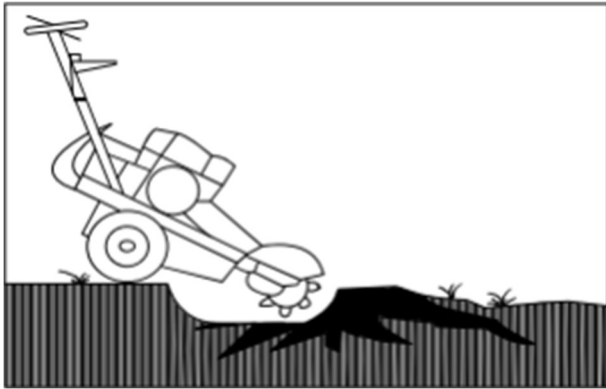
4. Raise the cutting wheel until the center of the cutting wheel is just above the top of the stump.

5. Allow the cutter wheel to stop, release the brake and reposition the machine.

6. Lock the brake again.

Cutting the full stump

1. Make sure the throttle is set to fast speed, so 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 and steadily sweep it across the stump left and right , cutting away 1/2 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.



5. Continue with final roots removal, cut the remaining roots as described in STEP 2 until satisfactorily removed.

After Each Use

⚠ WARNING

EMERGENCY SHUT DOWN PROCEDURE

1. Immediately push the emergency (on/off) switch for the engine will be shut of
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 and return to normal operation.

SHUTTING OFF THE GRINDER

1. When stopping the machine after normal operation. lower engine speed to slow, and push the emergency switch.
2. set park brake before leaving the controls.
3. shut of the engine by pushing the on/off switch.

NORMAL SHUT DOWN PROCEDURE

In consideration of your own safety and that of others, 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 so instructed in this manual or in an emergency that requires it.

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 parking brake before leaving controls.

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 167lb and should only be lifted using correct apparatus or an adequate number of people working as a team.

The 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.

Maintenance

⚠WARNING

- 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. the fuel tank has to be drained, this should be done 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 regularly.
- 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 regularly intervals. Nuts and bolts that are worn out or badly tightened can damage the engine or the frame.
- If the grinder hits an obstacle violent stop the grinder and take it to a specialist for inspection.

Procedure	Before Each Use	Every 3 Hours	Every 25 Hours	Every 100 Hours
Check engine oil level	Δ			
Check general equipment condition	Δ			
Check wedge for sharpness	Δ			
Check belts	Δ			
Check tire pressure			Δ	
Clean engine exterior and cooling			Δ	
Change Engine Oil	First time 5hours		Δ	
Replace air filter			Δ	
Replace spark plug				Δ

Troubleshooting

⚠WARNING

- Before performing any maintenance procedure or inspection, stop the engine, wait five minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

Use the table below to troubleshoot problems before contacting service personnel or your local dealer. If the problem continues after troubleshooting, call your local dealer for assistance.

Failure	Possible Cause	Corrective Action
<p><i>The engine won't start.</i></p> <p><i>(Please refer to the engine user manual for engine-specific procedures.)</i></p>	Is the ignition switch in the ON position?	Please refer to the engine user manual for engine-specific procedures
	Is the fuel shut-off valve on?	
	Are you using fresh, clean gas?	If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than 30 days
	Is the spark plug clean?	If the spark plug is dirty or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull the recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it
<p><i>The engine lacks power or is not running smoothly.</i></p> <p><i>(Please refer to the engine user manual for engine-specific procedures.)</i></p>	Is the air filter clean?	Check that the Throttle Lever is in the "Run" position. If it's dirty, change it following the procedure in the engine manufacturer's owner's manual
	Is the spark plug clean?	If it's fouled or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull your recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it
	Are you using fresh, clean unleaded gas?	If it's old, change it. Use a fuel stabilizer if you keep gas longer than 30 days
	Does your engine have the right amount of clean oil?	If it's dirty, change it following the procedure in the engine manufacturer's owner's manual. Check the oil level and adjust as needed
<p><i>Engine smokes</i></p> <p><i>(Please refer to the engine user manual for engine-specific procedures.)</i></p>	Is the engine smokes?	Check the oil level and adjust as needed. Check the air filter and clean or replace if needed. You may be using the wrong oil—too light for the temperature. Refer to your Engine Owner's Manual for detailed information. Clean the cooling fins if they're dirty

Parts Diagram



Part List

Part Number	Part Description	Quantity
1	main frame	1
2	belt cover inner plate	1
3	belt cover	1
4	blade cover	1
5	engine	1
6	clutch	1
7	belt	2
8	left flange	1
9	wheel 145/70-6	2
10	right flange	1
11	bearing 6002	4
12	seal 32	4
13	M16 flat washer	2
14	M14 lock nut	2
15	side-mudguard fitting bar	1
16	rear mudguard	1
17	side mudguard	1
18	brake chuck	1
19	brake pin	1
20	brake cable stopper	1
21	M8*25 hex bolt	8
22	M8 flat washer	52
23	M8 spring washer	30
24	M8 lock nut	28
25	M8*30 hex bolt	14
26	5*50 Elastic cylinder pin	1
27	M10*70 hex bolt	1
28	M10 nut	1
29	12 spring washer	10
30	M12x30 full thread hex bolt	10
31	clutch inner spacer	1
32	M8 oversized washer	2
33	M8*50 hex bolt	1
34	M8*20 hex flange bolt	4
35	clutch outer spacer	1
36	M12 flat washer	20
37	handrail bottom part	1
38	M6*20 hex bolt	3
39	M6 spring washer	2
40	M6 flat washer	6
41	blade disk	1
42	pulley	1
43	M10 flat washer	12
44	M10 spring washer	12
45	M10 lock nut	12
46	straight blade	2
47	left blade	2
48	right blade	2
49	handrail top part	1
50	switch	1
51	emergency stop frame spacer	2
52	emergency stop frame	1

Part Number	Part Description	Quantity
53	M6 rivet nut	4
54	M16*360 hex bolt	1
55	torsional spring	1
56	brake cable fitting plate	1
57	brake cable	1
58	M8*70 hex bolt	2
59	M5*16 hex bolt	4
60	M6 lock nut	3
61	M6*16 hex bolt	2
62	M8 nut	2
63	throttle cable assembly	1
64	M16 handle assembly	1
65	rubber ring for wire protective	1
66	switch wire	1
67	blade disk pully spacer	1
68	4.78*4.78 keyway	1
69	8*7 keyway	1
70	p205 bearing base	2
71	inner Compression spring	1
72	outer Compression spring	1
73	brake fixing sleeve	1
74	handrail bottom pad	1
75	M8x20hex bolt	1
76	M10x40hex bolt	12
77	M12x35hex bolt	4
78	M12x45hex bolt	4
79	M12x30hex bolt	2
80	M8x45 half round square bolt	4
81	flange outer spacer	2
82	flange bearing inner spacer	2
83	sticky wiring fixture	2
84	H type cross recessed screw	2
85	M5 flat washer	2
86	M5 lock nut	2
87	5 spring washers	2
88	brake Cable Holder	1
89	brake Cable Handle Lever	1
90	brake handle plastic sleeve	1

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at **1-800-222-5381**.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

Limited Warranty

Northern Tool and Equipment Company, Inc. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Powerhorse product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of two year from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

Limitations on the Warranty

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

Obligations of Purchaser

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at 1-800-222-5381, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

Remedy Limits

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

Assumption of Risk

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

Governing Law

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of Minnesota, without regard to rules pertaining to conflicts of law. The state courts located in Dakota County; Minnesota shall have exclusive jurisdiction for any disputes relating to this warranty.



Distributed by:

Northern Tool & Equipment Company, Inc.

Burnsville, Minnesota 55306

www.northerntool.com

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