

DR[®] STUMP GRINDER

Safety & Operating Instructions

Model: 8.0 HP



IMPORTANT! This manual contains information concerning proper and improper operation procedures, warnings, maintenance, troubleshooting and assembly tips. Everyone who operates this machine should read these instructions and be thoroughly familiar with them.

SECTION I - SAFETY



WARNING



Rules for Safe Operation



WARNING: To reduce the potential for any injury, comply with the instructions. Failure to comply with the instructions may result in personal injury.



TRAINING

Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Keep this manual in a safe place for future and regular reference and for ordering replacement parts. The operator must refamiliarize themselves with the controls when the handle is swung from the front to the rear position, as the throttle and brake controls are reversed.

INTENDED USE

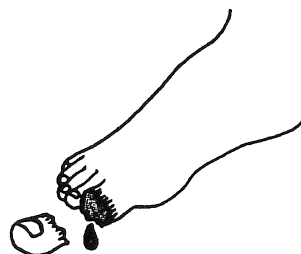
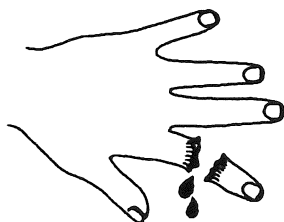
Never use your stump grinder for any purpose other than chipping or cutting stumps and roots. It is designed for this use and any other use may cause injury.



DANGER



⁺DANGER: *Rotating cutting teeth.* Keep hands and feet out from under the machine when running.

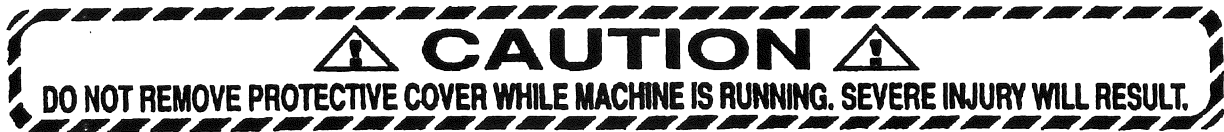


DANGER: This machine can **CUT** and **SEVER** parts of your body if they are placed in the area of the cutter head while the unit is running.

Make certain that all safety labels on this equipment are kept clean and in good condition. If you need replacement labels, please order by part number.



091-0057



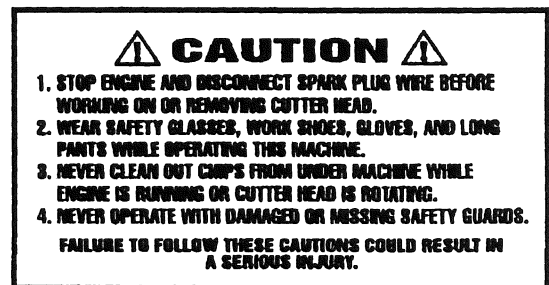
091-0059



091-0159



091-0160



091-0161

OPERATOR'S RESPONSIBILITY

- **Never** allow children to operate your stump cutter, or adults without the proper instructions. Keep children, pets, and bystanders a minimum of 20 feet away from your work area. Flying chips can be hazardous.
- **Never** run this machine in an enclosed area since the exhaust from the engine contains carbon monoxide which is an odorless, tasteless, and deadly poisonous gas.
- **Never** put your hands, feet, face, or any other part of your body near the cutter head while the engine is running.
- **Never** operate your stump cutter while under the influence of alcohol, drugs, or medication. A clear mind is essential for safety.
- **Never** allow a person who is tired or otherwise not alert to operate this machine.
- **Never** operate this machine with any damaged parts or guarding removed.

SAFETY WEAR

Never wear loose clothing or jewelry that can be caught by moving parts of your stump cutter and pull you into it. Keep all clothing away from moving parts. Wear proper head gear to keep hair away from moving parts.

Always wear safety glasses provided with your unit at all times while operating your stump cutter. A chip could fly out and hit you in the eye. Be sure your glasses fit properly.

SAFETY OPERATING PROCEDURE

If it is necessary for any reason to inspect or repair any part of the machine, stop the machine, allow it to cool, disconnect the spark plug wire from the spark plug and move it away from the spark plug before attempting such inspection or repair. Whenever you operate your stump cutter, wearing safety glasses is required. Before each use, check all three controls; brake, throttle, kill switch, to be sure they are functioning properly.

The operation of any stump cutter can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear the safety glasses provided with the stump cutter or eye shields before chipping or while performing any adjustments or repairs.

OPERATE IN A SAFE ENVIRONMENT

Operate equipment only in daylight or in good artificial light.

Extreme care must be taken when operating your machine on a side hill. It could tip, or poor footing could cause an accident. Do not operate the machine parallel to the hill. Always stand uphill from the stump.

- A. Secure handle in front or rear position.
- B. Do not use your machine on muddy or icy surfaces.
- C. Never leave your machine unattended with the engine running.

Thoroughly inspect and clear work area of objects which might be picked up and thrown. Remove all stones, sticks, wires, bones and other foreign objects. Beware of hidden objects located above or below ground, such as electric wires, gas or water lines, and sprinkler systems. **DO NOT BEGIN TO CHIP STUMPS** unless you are sure the area is clear.

- * Know how to turn the machine off. There is an on/off kill switch on the handle.
- * **HANDLE GASOLINE WITH CARE** as it is an extremely flammable fuel.
- * **Check** the fuel before starting the engine. Do not fill the fuel tank indoors, while the engine is running, or while the engine is still hot. Turn the unit off and let the engine cool for at least three minutes before refueling. **Fuel** your stump cutter in a clean area to avoid getting dirt in the gas tank. Do not smoke while refueling. **Fuel tank cap** must be secure at all times except during refueling. **Avoid** spilling gasoline or oil. Wipe the unit clean of any spilled fuel or oil.
- * Store fuel and oil in approved containers, away from heat or open flame, and out of reach of children. Leave 1/2 inch air space at top of fuel tank to allow for expansion of fuel.

REPAIR AND MAINTENANCE SAFETY

Never operate your stump cutter in poor mechanical condition. Periodically check that all nuts, bolts, screws, and belts are tightened to specifications. Be sure all safety guards and shields are in proper position. These safety devices are for your protection.

Be sure to read and follow engine owner's manual for engine maintenance and repair.

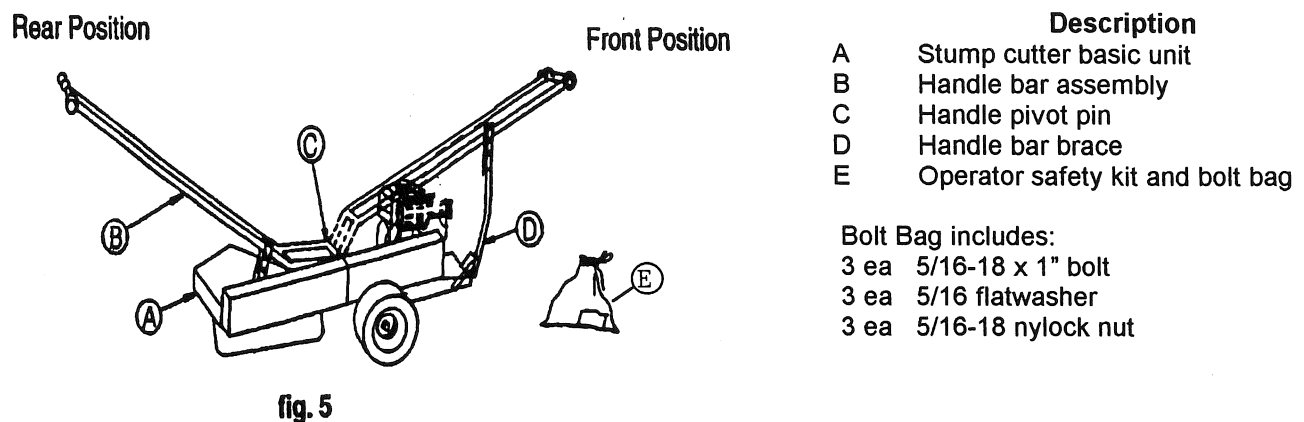
BEFORE STARTING ENGINE, ALWAYS CHECK OIL LEVEL

SECTION II - ASSEMBLY INSTRUCTIONS

Your stump cutter is partially assembled at the factory. For final assembly follow steps 1-5.

STEP 1 - UNPACKING AND CHECKING CONTENTS

1. Remove the unit from the crate and place it on its wheels.
2. After unpacking the shipping crate, compare the contents with the items list below.
3. If any parts are missing or damaged, contact Country Home Products.
4. Assembly should be done on a clean, level surface.



STEP 2 - INSTALLING HANDLE BAR BRACE

1. While facing the engine and having the belt guard on your left, hold the handle bar brace (item #32, pg. 16) in place on the left-hand corner of the engine base (item #1, pg. 16).
2. Put the 5/16-18 x 1" mounting bolts (item #48, pg. 16) through the brace and engine base at all three mounting holes as per the assembly drawing on page 16.
3. Reach under the frame, and using the hardware from your bolt bag, put a 5/16 flatwasher in place and hand tighten a 5/16 nylock nut on all three mounting bolts.
4. To get the best alignment of handle bar and brace, tighten the nut and bolt on the right first, the one on the left next, and the one on the belt guard side of the frame last.

STEP 3 - INSTALLING HANDLE ASSEMBLY

The handle assembly is packed with the cables attached, so be careful not to over extend the handle away from the stump grinder and break them loose.

1. Remove bolt and nut (item 48 & 51, pg. 16) from the pivot pin (item 31, pg. 16) and pull it out of the pivot bracket.
2. Carefully pick up the handle assembly (item B, fig. 5) and put it in place so that the bend is down and the handle grips are at the cutter head end (rear position). Care needs to be taken to prevent the cables from being torn loose, dislodged, or pinched.
3. Insert pivot pin (item B, fig. 1, pg. 6) through the first hole on the pivot bracket, through the lower handle tube (item A, fig. 1, pg. 6), and into the other hole on the pivot bracket.
4. Secure the pivot pin with the hardware you removed in step 1.
5. If the handle bar doesn't rest well in the brace while in the front position (fig. 2, pg. 6), pivot the handle out of the brace, loosen the brace, put the handle bar back in the brace and retighten.

STEP 4 - SECURING THE CABLES

1. With the handles in the rear position, install all the cable ties (fig. 3).
2. Swing the handles from the front to the rear position checking to make sure the cables do not bind or becomes kinked.

STEP 5 - POSITIONING THE HANDLE

1. You can secure the handle in the front or rear position as well as adjust for height with the clevis pins (item 33, pg. 16) and hair cotters (item 34, pg. 16) provided as shown in figure 4.
2. **Note:** Brakes and throttle controls will be reversed when handle is switched from front to rear position.

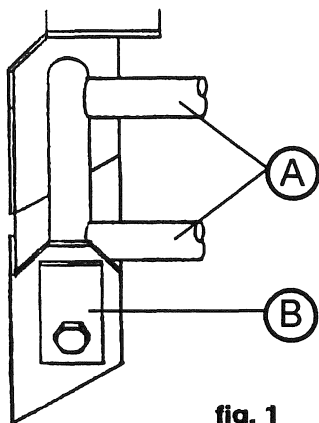


fig. 1

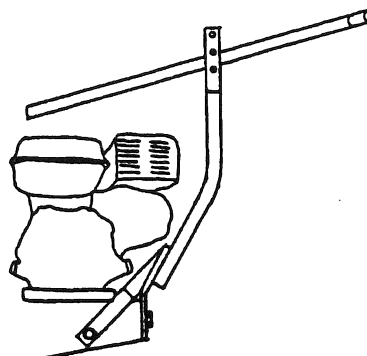


fig. 2

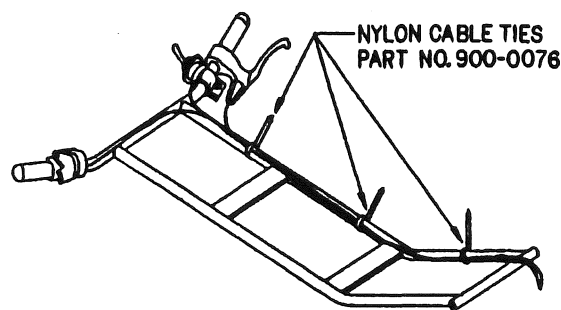


fig. 3

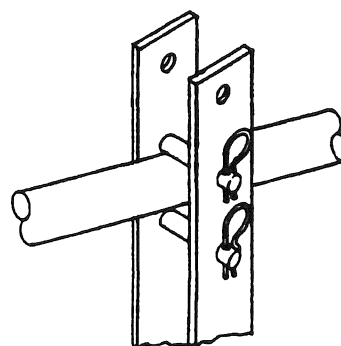


fig. 4

BEFORE STARTING ENGINE, ALWAYS CHECK OIL LEVEL

THERE MAY BE A TRACE AMOUNT OF OIL IN THE ENGINE FROM THE SUPPLIER.
FILL ENGINE WITH OIL TO THE FULL LEVEL ON THE OIL DIPSTICK.

SECTION III - LUBRICATION & ENGINE START UP

Check oil level before starting engine.

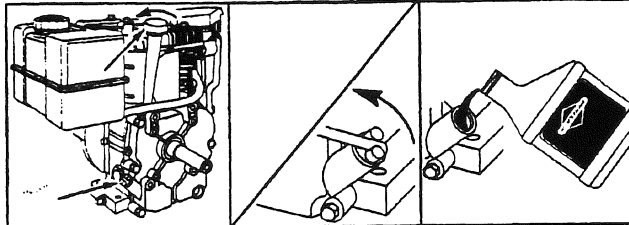
Add oil as shown below.

Note: Gear reduction, if this engine is equipped, must also be filled with oil. See oil filling instructions on page 6.

Oil capacity of Model Series 190000 and 220000 is about 1-3/8 quarts (44 ounces or 1.3 liters).

Oil capacity of Model Series 250000 is about 1-1/2 quarts (48 ounces or 1.4 liters).

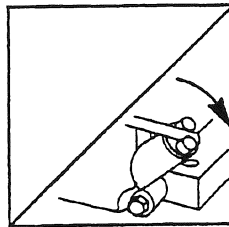
After filling with or changing oil, start and run engine at idle for 30 seconds. Shut engine off. Wait 30 seconds and check oil level. Add oil, if required, to bring level to **Full** mark on dipstick.



Place engine level.
Clean around oil fill.

Remove oil filler
plug

Fill to overflowing



Tighten plug/dip-
stick before starting.

1. Rope handle
2. Blower housing
3. Carburetor
4. Air cleaner
5. Stop switch, if equipped
6. Fuel fill
7. Fuel tank
8. OIL GARD®, if equipped
9. Engine

Model	Type	Code
xxxxxx	xxxx xx	xxxxxxxx

10. Spark plug wire

12. Muffler
13. Oil fill plug
14. Oil drain
15. 12 V electric starter, if equipped
16. Fuel shut-off valve

In the USA and Canada, a 24 hour hot line, 1-800-233-3723, has a menu of pre-recorded messages offering you engine maintenance information.

BEFORE STARTING ENGINE, ALWAYS CHECK OIL LEVEL

SERVICE ENGINE

The engine has been shipped dry. Service the engine by adding oil, and gas as per the engine manual enclosed.

BEFORE STARTING: GAS FILL-UP

- Fill the fuel tank with fresh, clean unleaded regular automotive gasoline. (Leaded regular and unleaded or leaded premium grades of gasoline are acceptable substitutes.)
- Do not mix oil with gasoline.
- Do not use gasoline left over from last season or that has been stored for long periods of time.

TO ADD GASOLINE

- Shut off the engine and disconnect the spark plug wire from spark plug. Allow the engine and muffler to cool for at least three minutes.
- Clean the area around the fuel cap and remove the cap from the fuel tank. Insert a clean funnel into the fuel tank and add gasoline.
- Reinstall the fuel fill cap securely and wipe up any spilled gasoline.

Warning: Do not fill closer than 1/2 inch from the top of the fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidentally spilled, move stump cutter away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.

Caution: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system or an engine while in storage. To avoid engine problems, the fuel system should be empty before storage for 30 days or longer. Refer to "Storage" section of this manual for details. Use fresh fuel each season. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may result.

Note: Use clean oil and fuel. Store in approved, clean, covered containers. Use clean fill funnels.

TO ADD OIL

Engine is shipped without oil. Fill crankcase with oil before starting. See oil capacity chart below. Be very careful not to allow dirt to enter the engine when checking or adding oil or fuel.

To fill or change oil, make sure the machine is on level ground. Use the filler plug and fill to the top. When full, run your machine for 30 seconds, shut it off, wait for 30 seconds and recheck the oil level. Add oil if required to fill to the top of the plug.

Model No.	Oil Capacity
CPSC8CHP	1-3/8 quarts (44 oz.)

LUBRICATE cutter head and wheel bearings with good quality lithium grease through grease fittings or bearings.

BEFORE STARTING ENGINE, ALWAYS CHECK OIL LEVEL

TO START ENGINE

Warning: Be sure no one other than the operator is standing near the stump cutter while starting or operating.

1. Attach spark plug wire to the spark plug.
2. Move the choke control to CHOKE position. (fig. 6)
Note: The choke may not be needed if the engine is warm or the air temperature is high.
3. Turn the fuel shut-off valve on (fig. 7).
4. Turn the handle bar toggle switch to the ON position.

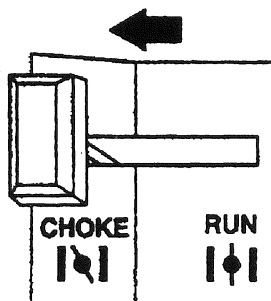


fig. 6

1/4 TURN
COUNTER
CLOCKWISE

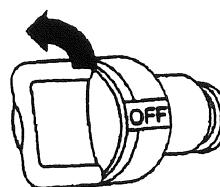


fig. 7

5. Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly.
6. Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let rope rewind slowly. Do not let starter handle snap back against starter.
7. Repeat procedure until engine fires. As engine warms up, move choke lever to the RUN position.

TO STOP ENGINE

1. Release throttle and allow engine to return to idle.
2. Push handle bar toggle switch to OFF position.
3. Turn fuel valve to OFF position.

SECTION IV-OPERATION

These operating instructions are designed to help you get the most out of your stump cutter.

1. It is suggested that tall stumps always be cut to near ground level with a chain saw prior to cutting with this machine. This is a big time saver.
2. Use a mattock or other digging tool to remove dirt and stones from around the stump as deep as you intend to cut. This is important to prolong the life of the cutter teeth. Stones that are solidly embedded in the stump and can't be seen will only dull the cutting teeth. The loose stones should be removed since they can chip a tooth or be thrown by the cutter head. Your cutter head is affixed with teeth of a mining grade tungsten carbide. It will continue to cut in spite of stones, but the fewer stones it strikes-the better.
3. Select the desired handle location for the job. Remove the hair cotter and the clevis pin (item 33, pg. 16). Swing the handle (item B, pg. 5) over to convert the stump cutter to a front or rear cutter (Figure 5, page 5). If the stump is close to a building or fence, have the cutter head in front. If the stump is in the open, you may find it is easier to chip with the cutter head in the rear. You can also change the height of the handles by positioning the clevis pin in one of several locations. Always secure the clevis pin by inserting the hair cotter (Figure 4 pg. 6).
4. If the ground is very soft, place a sheet of plywood around the stump, especially on the sides. Pull or push the machine up onto the stump so that about 1/3 (3" or 4") of the cutter head is nearly touching the stump.
5. Once the machine is positioned over the stump, squeeze the brake handle to lock the wheel. The brake locks one wheel only and allows you to make a sweeping motion with the cutter head. You can hold the brake on with one hand or lock it in position by depressing the brake handle lock (item C, Figure 18). To unlock the brake, simply squeeze the lever and release.
6. With your index finger, depress the throttle all the way to full speed prior to starting the cutting action (Figure 19).

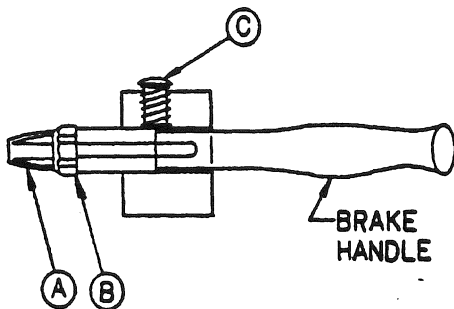


fig. 18

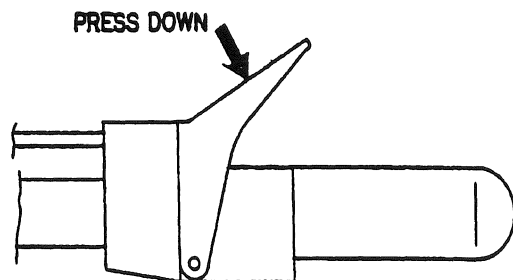


fig. 19

7. Start to cut the stump at the extreme left (rear position) or extreme right (front position). Swing the cutter head across the stump, cutting approximately 2" of wood at each pass. As you become more familiar with your machine, you will be able to cut left to right and right to left. The hardness of the wood and the sharpness of the teeth will dictate how deep and how fast you cut (Figure 19A).

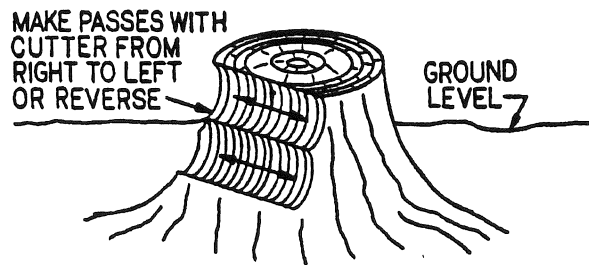


fig. 19A

8. At the end of each pass, allow the engine to recover to full speed. Release the brake to push or pull the cutter further into the stump, re-lock the brake and continue cutting.

HELPFUL HINTS

1. Chips are contained by the rubber guard and may begin to build up between the wheels. Should there be excessive build-up, release throttle and move unit out of position and rake or shovel away the chip build-up.
2. On larger stumps, if you continue to cut from one location, eventually a wheel may want to roll into the hole. Before this happens, move to a different side of the stump to continue chipping.
3. It is a good idea to never operate the machine with the engine more than 30 degrees from horizontal. This could cause engine damage due to lack of lubrication. This problem could happen when a stump is on a steep hill. Try to cut the stump with the least amount of tilt.

SECTION V - MAINTENANCE

If the cutting head strikes a rock or curb and should start making an unusual noise or vibrates excessively, stop the engine, disconnect the spark plug wire from the spark plug. Allow the engine to cool and then:

- Inspect for obvious damage.
- Check for loose parts and tighten to assure continued safe operation.
- Replace or repair any damaged parts.

LUBRICATION OF THE ENGINE

Check engine oil level regularly-WHILE THE UNIT IS IN A LEVEL POSITION. Check the oil every five hours of operation and before each usage. Stop engine and wait several minutes before checking oil level. With engine level:

- Remove the oil filler plug and check oil level. It should be to the top of the fill plug.
- If the level is low, fill to the top of the fill plug.

Change oil after the first five hours of operation and every 25 hours thereafter. Refer to the engine manual enclosed with this unit for additional information on your engine.

AIR CLEANER

Refer to the engine manual for additional information on the air filter

- Do not operate engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such parts could create a fire hazard.
- Do not use flammable solutions to clean the air filter.

BEARINGS

Grease cutter head bearings with a good quality lithium grease initially and every 25 hours. Grease the wheel bearings every 100 hours.

BELT TENSION

Check belt tension frequently. This is especially important in the first one hour of use. Once the belt is "seated" and initially stretched (approximately two hours), recheck the tension. You should check the tension each time you use the machine. To test belt tension, push down on the belt at mid span with 3 lb. of pressure. The belt should move approximately 1/2". The belt tension can be adjusted two ways:

- Loosen the two bolts A & B (fig. 21) holding the idler adjuster arm (item 26, pg. 16 or fig. 21). Using your hand or foot, press down on the idler arm until proper tension is obtained. Retighten bolts A & B (fig. 21).
- If the adjuster arm has "bottomed out" and no additional adjustment can be made:
 - Loosen the bolts on the idler adjuster arm.
 - Loosen the engine bolts.
 - Move the engine rearward which tightens the belt.
 - Secure the engine bolts.
 - Repeat step one above-adjusting the idler arm.

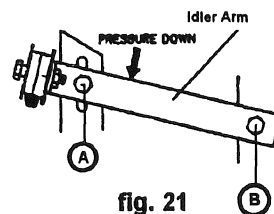


fig. 21

CALIPER BRAKES

The brake is needed to prevent the machine from moving away from the stump during cutting. To adjust the brake:

- Loosen the locking nut on the brake handle. (Item B, fig. 22, pg. 12)
- Turn the brake adjuster (Item A, fig. 22) out, away from the handle, a few turns.
- Continue to check to see if the brake is holding.
- When the brake "holds", the correct adjustment is reached. Re-tighten the locking nut. (Item B, fig. 22).
- If correct adjustment cannot be achieved, turn the brake adjuster all the way in and adjust brake tension at the brake caliper.

- To adjust brake at caliper, loosen locking nut (Item B, fig. 22A). Turn adjusting screw (Item A, fig. 22A) in until brake is holding. Retighten locking nut (Item B, fig. 22A).

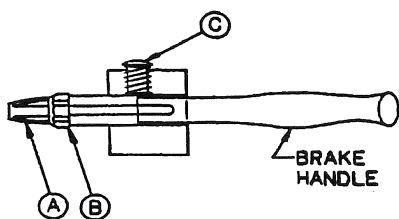


fig. 22

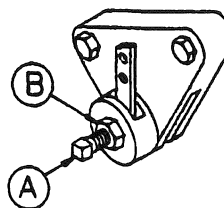


fig. 22A

CENTRIFUGAL CLUTCH AND SERVICING

Your unit is equipped with a centrifugal clutch (item 11, pg. 16) to facilitate easy starting and also protect the cutter head and belt. If the clutch requires service, follow the directions below.

REMOVAL AND DISASSEMBLY

- Remove clutch from shaft by loosening 7/16-20 x 1 1/2" bolt (item 62, pg. 16) and washers. Remove key from key way.
- To disassemble, remove retainer ring and slide off drum assembly. See fig. 23 below.
- Release one hook of spring from shoe pin. Use tape wrapped pliers to avoid nicking spring.
- Carefully note position of shoes. Remove shoes from hub.

REASSEMBLY

Note: Always replace shoes and springs in sets; whenever shoes are changed, replace all springs.

- Locate shoes correctly on hub for rotation required.
- Place one end of each spring over a shoe pin, stretch spring just enough to clear pin on other shoe. Use tape wrapped pliers to avoid nicking spring. Avoid overstretching that may damage spring.
- Reassemble drum to hub, secure with retaining ring.
- Put key (item 5, pg. 16) back in engine shaft.
- Slide clutch onto engine crankshaft.
- Secure clutch with bolt and washers you removed when taking the clutch off. Use EV grade loctite on bolt threads.
- Torque cap screw to 30 ft. lb.

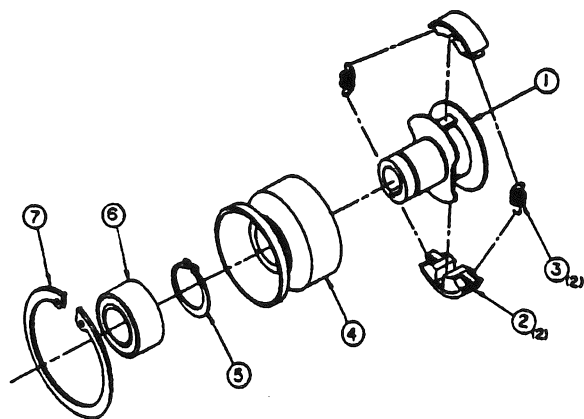


fig. 23

1" Clutch Parts List

Part No. 030-0202

Item No.	Part No.	Qty.	Description
1	030-0202-3	1	Hub Assembly
2	030-0162	3	Shoe
3	030-0202-5	3	Spring
4	030-0202-2	1	Drum Assembly
5	030-0083	1	Retaining Ring
6	030-0202-6	1	Bearing
7	030-0189	1	Retaining Ring

CUTTER HEAD

The cutter head is fastened to the mounting flange on the spindle with four 3/8-16 x 1-3/4" bolts. Be sure to check them frequently for tightness.(Figure 24).

TEETH

Your stump cutter is equipped with carbide tipped teeth. (Items 22, 23, 24, pg. 16) Carbide retains its sharpness longer, cuts faster and smoother and can withstand heat, but they will wear. Sharpen the teeth before excessive wear or when they look dull or rounded. Check the teeth on the cutter head after each use. Always check the 45 degree tooth first because it is the most abused being a "digger and leader". Any cutter tooth with less than a 10 degree relief (see fig. 30, pg. 14) will result in poor performance and cause smoke and burn marks to appear on the wood. By keeping the teeth sharp, you will prevent frustration at the job site. It only takes a few minutes to touch them up before you go out on a job. If the unit receives heavy use, a second cutter head assembly can be purchased as a back up while the other head is being sharpened.

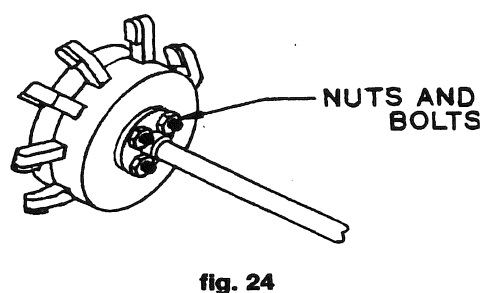


fig. 24

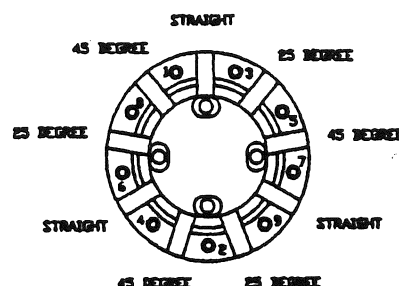


fig. 25

1. Teeth should be installed according to the pattern shown in Figure 25 above.
2. Cutter head must never be run with a missing or damaged tooth.

CAUTION: Excessive vibration is usually a result of broken or missing teeth. Stop engine, disconnect spark plug wire and inspect.

TO SHARPEN

Teeth can be removed and sharpened individually or as a complete cutter head (see #12, pg. 14)

1. Remove entire cutter head (see Figure 24) by removing the 4 ea. 3/8"-16 nuts and bolts.
2. Remove the 9 cap screws using the 5/16" allen wrench provided.
3. Tap anyone of the 9 teeth with a soft hammer to "pop" the cover off the cutter body.
4. Remove the 9 cutters from their slots.

CAUTION: When sharpening teeth, always wear eye protectors and a dust mask or respirator. Carbide dust can be dangerous if inhaled.

Any bench-type or pedestal style grinder with a "Green wheel" (silicon carbide grinding wheel or diamond wheel) may be used on the carbide teeth. A regular grey wheel (coarse grinding wheel) is needed for grinding the steel relief. It is best if you can set up the grinder with a coarse wheel on one side and "Green Wheel" on the other side.

5. Teeth may be ground free-hand since precision is not important. Any variance between teeth will not be noticed.
6. Using the "Green Wheel", grind the end of the carbide until the edge is sharp. Avoid grinding on the face of the carbide which would reduce its thickness and weaken it, making it more susceptible to cracking and chipping. (Figure 26)

7. As the end of the carbide is ground away, you will have to grind "relief" on the square steel shank. The steel must be ground with the regular coarse grinding wheel and not the "Green Wheel". (Figure 27)
8. Although the angle is not critical, always grind the tooth so that there is enough "relief" under the carbide edge (minimum 10 degrees). (Figure 28 & Figure 29)
9. The tooth may continue to be ground until the carbide has approximately 1/4" remaining (Figure 30).



fig. 26



fig. 27

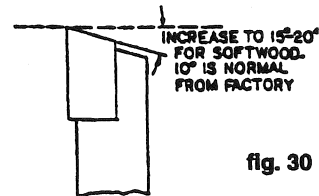


fig. 30



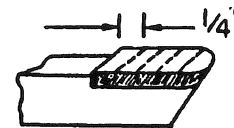
fig. 28

(right way)



fig. 29

(wrong way)



10. Before reinstalling the teeth, wire brush the internal cutter body and cap screws. Spray with light oil or WD40 and reassemble. Remember to reassemble teeth in the same order: 45 degree offset, 25 degree offset, and straight; repeated three times (Figure 25, pg. 13). Make sure to align the notch in the teeth with the slot in the cutter head body so the cover plate can be assembled properly.

11. Torque cap screws on cover plate (item 20, pg. 16) to 25 ft. lb. the first time around to insure even pressure on the teeth. Alternate tightening screws in a crisscross pattern. **Final tighten to 45 ft. lb.**

12. The teeth can also be sharpened without removing them from the cutter head. Sharpen them free-hand by holding the entire head up to the grinding wheels. This will work best if you use a 6" diameter wheel 1/2" wide with 1/2" or 5/8" arbor, 60 grit.

13. To reassemble cutter head to mounting flange:

- a. Clean mating surfaces of cutter head and mounting. Spray both with light oil or WD40.
- b. Reinstall cutter head using new 3/8" splitlock washer and nuts
- c. Pre-tighten nuts in crisscross pattern to 25 ft. lb. Finish tightening to 45 ft. lb.

CAUTION: Be sure to check for tightness before each use.

SERVICE RECOMMENDATIONS

MAINTENANCE SCHEDULE

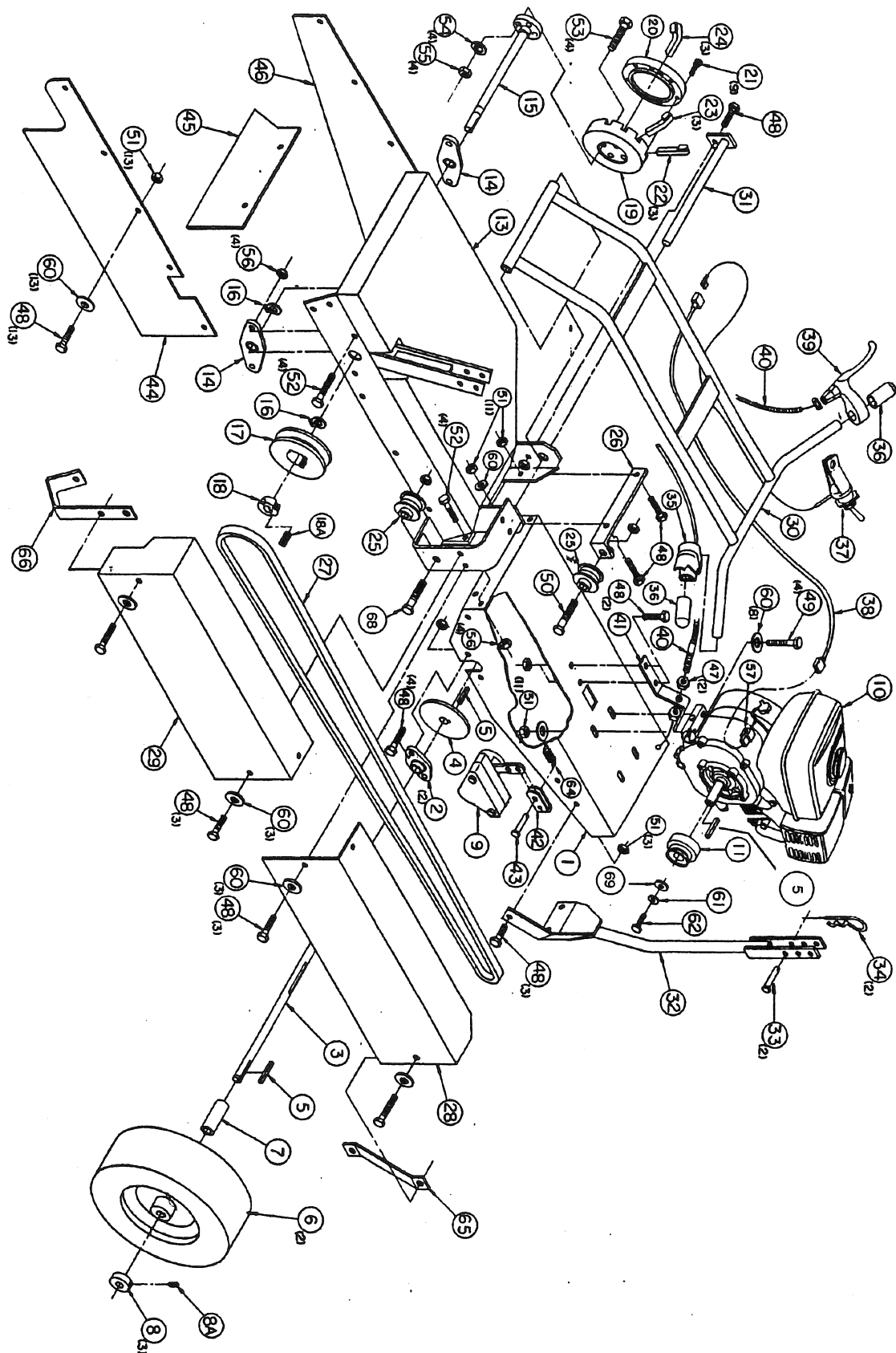
REGULAR SERVICE PERIOD						
Item	Performed at every indicated month or operating hour interval, whichever comes first.	Each Use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
Engine Oil	Check level	•				
	Change		•		•	
Reduction gear oil (applicable models only)	Check level					
	Change		•			•
Air Cleaner	Check	•				
	Clean			• (1)		
Sediment Cup	Clean				•	
Spark Plug	Check Clean				•	
Spark arrester (optional part)	Clean				•	
Valve Clearance	Check-Adjust					• (2)
Fuel tank and strainer	Clean					• (2)
Fuel Line	Check (Replace if necessary)	Every Two Years				

NOTE: (1) Service more frequently when used in dusty areas.

(2) These items should be serviced by an authorized Briggs and Stratton dealer, unless the owner has the proper tools and is mechanically proficient. The Service Recommendations Chart is supplied to assist the operator in proper maintenance of the stump cutter.

STORAGE

Never store your stump cutter indoors or in an enclosed, poorly ventilated area if gasoline remains in the tank. Fumes may reach an open flame, spark or pilot light from a furnace, water heater, clothes dryer, cigarette, etc. When not in use, your machine should be stored out of reach of children with the spark plug removed. Always allow the engine to cool before storing or covering. For long periods of storage (over winter), please refer to the engine owner's manual.



CPSC8CHP ASSEMBLY DRAWING

PARTS LIST - CPSC8CHP

<u>Item No.</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>
1	807-0073	1	Engine Base Weldment
2	030-0055	2	Bearing w/ 1" Dia. Bore
3	807-0058	1	Axle
4	807-0005	1	Brake Rotor
5	703-0424	3	1/4" x 1/4" x 2" Key
6	807-0013	2	Wheel (13 x 5.00-6)
7	807-0060	1	Wheel Spacer
8	807-0059	3	Axle Locking Collar
8A	080-0053	3	5/16-18 x 5/16" Set Screw
9	807-0006	1	Brake Caliper
10	803-0033	1	8 HP Briggs & Stratton Engine
11	030-0202	1	Clutch - 1" Dia Bore
13	807-0077	1	Head Frame Weldment
14	030-0115	2	Bearing 1-3/16" Bore
15	807-0009	1	Drive Shaft Weldment
16	030-0117	2	1-3/16" Retaining Ring
17	807-0004	1	Pulley - 5 3/4 Dia.
18	030-0118	1	Bushing 1 3/16"
18A	020-0001	2	3/8-16" x 5/8" Lg. Set Screw
19	807-0007	1	Cutter Head Body
20	807-0008	1	Cutter Head Cover
21	090-0513	9	3/8-24 x 1" Socket Hd. Cap Screw GR8
22	807-0001	3	Cutter Teeth - Straight
23	807-0002	3	Cutter Teeth - 25 Degree
24	807-0003	3	Cutter Teeth - 45 Degree
25	909-0012	2	Idler Pulley
26	807-0029	1	Idler Arm
27	807-0012	1	Belt - Kevlar
28	807-0082	1	Belt Guard - Engine
29	807-0081	1	Belt Guard - Head
30	807-0068	1	Handle Weldment
31	807-0025	1	Pivot Pin
32	807-0020	1	Handle Bar Brace
33	807-0056	2	Clevis Pin 5/16" x 2" Lg.
34	100-0015	2	3/32" Hair Cotter
35	807-0014	1	Throttle Cable Assembly
36	500-0041	2	Black Handle Grip - 7/8" x 5"
37	807-0038	1	Kill Switch - Toggle Type
38	807-0095	1	Kill Switch Wire Assembly
39	807-0037	1	Brake Handle
40	807-0035	1	Brake Cable Assembly
41	807-0028	1	Brake Cable Bracket
42	807-0036	1	Full Clevis
43	807-0057	1	Clevis Pin 1/4" x 7/8" Lg.
44	807-0030	1	Drive Side Guard
45	807-0031	1	Engine Side Guard
46	807-0032	1	Open Side Guard
47	090-0514	2	5/16-24 Jam Nut
48	090-0088	32	5/16-18 x 1" HHCS, GR5
49	090-0091	8	5/16-18 x 1-3/4" HHCS, GR5
50	090-0114	1	3/8-16 x 2" HHCS, GR5
51	090-0460	38	5/16-18 Nylok Locknut
52	090-0111	8	3/8-16 x 1-1/4" HHCS, GR5
53	090-0113	4	3/8-16 x 1-3/4" HHCS, GR5
54	090-0228	4	3/8" Med. Split Lockwasher
55	090-0207	4	3/8-16 Hex Nut
56	090-0461	8	3/8-16 Nylok Locknut
57	020-0056	1	Self-Stripping Wire Connector
60	090-0233	32	5/16" Flatwasher
61	090-0226	1	7/16 internal tooth lockwasher
62	090-0153	1	7/16-20 x 1 1/4" HHCS, GR8
64	703-0425	1	Spring
65	807-0091	1	Belt Guard Bracket - Engine
66	807-0064	1	Belt Guard Bracket - Head
67	807-0061	1	Spacer
68	090-0115	1	3/8-16 x 2 1/2" HHCS, GR5
69	090-0244	1	7/16 Flatwasher

Order Parts by Engine Horsepower, Part Number and Part Description

We Want You to be Totally Satisfied

The DR® STUMP GRINDER is designed to provide year after year of trouble-free performance. To ensure that you are totally satisfied with this important purchase, we offer the following three-part Assurance of Satisfaction:

1. THE DR® STUMP GRINDER is GUARANTEED FOR TWO FULL YEARS against defects in materials and workmanship in consumer use. In rental and commercial use the machine is guaranteed for 90 days. If you believe that a part is defective, please write or call us immediately. We will do our best to remedy the problem, including repairing or replacing defective parts as quickly as possible.
2. IF WITHIN THE FIRST 30 DAYS of actual hands-on use you have questions or you are less than 100% satisfied with your DR® STUMP GRINDER, please write or call us at TOLL-FREE 1-800-DR-OWNER (376-9637). We'll do everything possible to answer your questions or make things right—even if it means that you return your DR® STUMP GRINDER for a full refund of its purchase price, shipping costs included. (Refund on shipping is for standard method, and applies to the contiguous United States and Canada only.)
3. We operate, for our Owners, a 7-Day-a-Week Customer Service Department with well-trained and friendly folks whose sole job it is to ensure that you get any help you need...parts that need to be replaced...or questions answered courteously and as promptly as possible.

For future reference when dealing with your warranty, please fill out the information below.

Name Purchased Under: _____

Order Number: _____ Serial Number: _____

Date Purchased: ____/____/____

LIMITED WARRANTY

Any product manufactured by Country Home Products and found, in the judgment of Country Home Products, Inc. to be defective in material or workmanship, will be repaired or replaced by a Country Home Products Service Dealer without charge for parts and labor to the original owner of the Country Home Products unit.

The Country Home Products unit including any defective part must be returned to an Authorized Country Home Products Service Dealer within the warranty period. The expense of delivering the product to the dealer for warranty work and the expense of returning it back to the owner after repair or replacement will be borne by the owner. Country Home Products' responsibility is limited to making the required repairs or replacements only. No claim of breach of warranty shall be cause for cancellation or rescission of the sales contract of any Country Home Products unit. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by a Country Home Products Service Dealer.

This warranty is limited to two years from the date of original retail purchase for any Country Home Products unit that is used for consumer purposes or 90 days for commercial and rental use.

This warranty does not cover any product that has been subject to misuse, abuse, neglect, negligence, or accident, or that has been operated in any way contrary to or inconsistent with the operating instructions as specified in the owner's manual. The warranty does not apply to any damage to the product that is the result of improper maintenance, or to any product or parts that have not been assembled or installed as specified in the owner's manual.

The warranty does not cover any product that has been altered or modified. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which are not Country Home Products or which are either incompatible with the Country Home Products unit or which affect its operation, performance or durability. This warranty does not cover engines, electric starters, or other accessories which are warranted separately by their manufacturer and for a different period of time.

Country Home Products reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

THE DURATION OF THE LIMITED WARRANTY IS TWO YEARS CONSUMER, 90 DAYS COMMERCIAL AND RENTAL USE. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. COUNTRY HOME PRODUCTS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXCEPT THE LIMITED WARRANTY DESCRIBED ABOVE, ALL IMPLIED WARRANTIES (MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE SPECIFICALLY DISCLAIMED.

COUNTRY HOME PRODUCTS ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE FOR GASOLINE, OIL, EXPENSE OF DELIVERING THE PRODUCT TO A COUNTRY HOME PRODUCTS SERVICE DEALER AND EXPENSE OF RETURNING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY REPAIRS ARE BEING PERFORMED, TRAVEL, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME OR INCONVENIENCE.

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