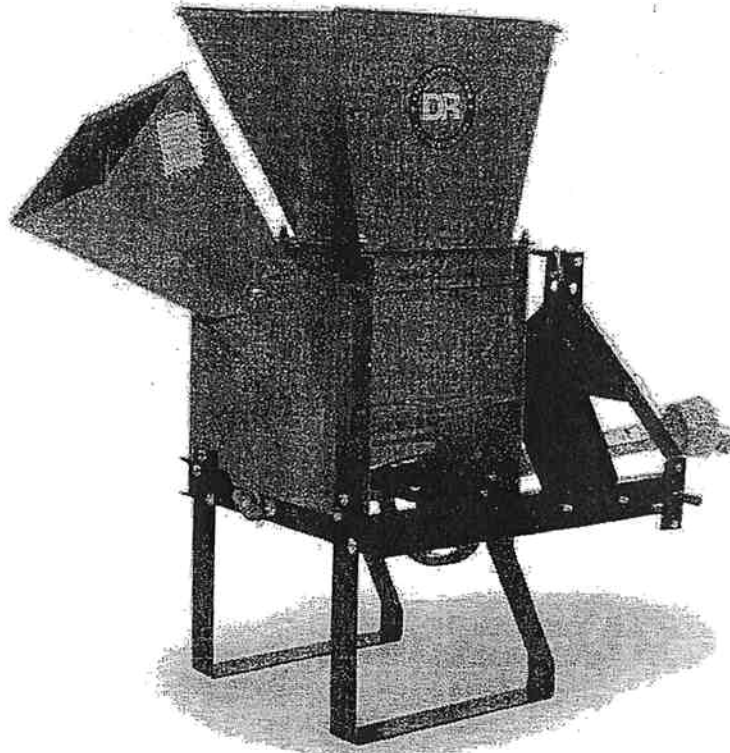


DR CHIPPER/SHREDDER

Operating & Assembly Instruction Manual

Model: Tractor Attachment Chipper/Shredder

TPH-183CHP



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

SECTION I – SAFETY



This symbol points out important safety instructions, which if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate your shredder/chipper. Failure to comply with these instructions may result in personal injury. When you see this symbol - heed its warning.

**THIS MACHINE IS CAPABLE OF INFLICTING SERIOUS INJURY
IF
OPERATED IMPROPERLY -- READ WARNINGS & CAUTION LABELS.**

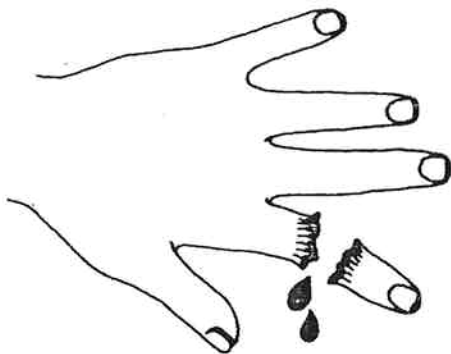
INTENDED USE

Never use your shredder/chipper for any other purpose than shredding and chipping limbs or other lawn and garden debris. It is designed for this use and any other use may cause serious injury.



DANGER: Rotating cutting blade.

Keep hands and feet out of inlet and discharge opening while machine is running.



DANGER: This machine can **CRUSH, GRIND, CUT,** and **SEVER** parts of your body if they enter the inlet or discharge area of your shredder/chipper.



DANGER: Your shredder/chipper was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

MAKE CERTAIN THAT ALL SAFETY LABELS ON THIS EQUIPMENT ARE KEPT CLEAN AND IN GOOD CONDITION. IF YOU NEED REPLACEMENT LABELS, ORDER BY PART NUMBER.



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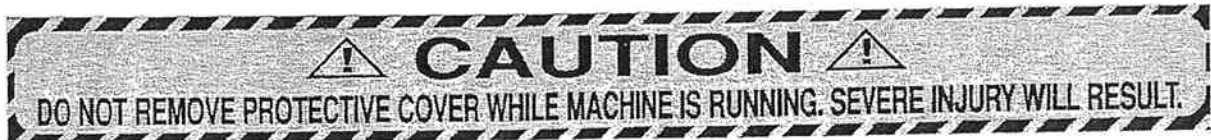
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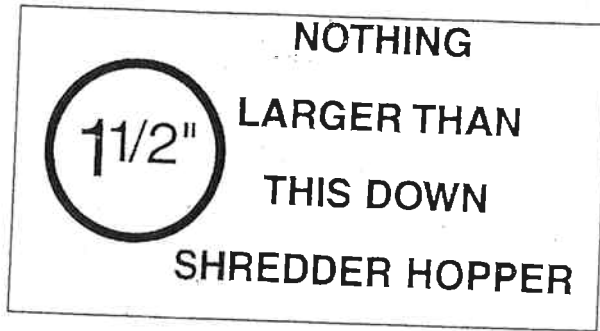
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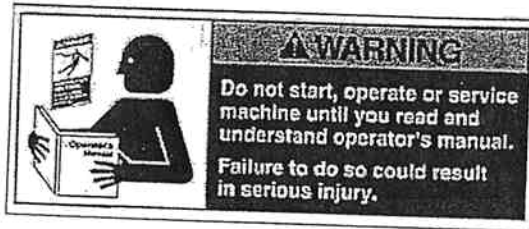
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091-0381

WARNING

THIS MACHINE IS DESIGNED TO OPERATE AT 540 RPM ONLY. DO NOT OPERATE AT A FASTER SPEED WHICH MAY CAUSE SERIOUS INJURY TO THE OPERATOR OR BYSTANDERS AND COULD CAUSE DAMAGE TO THE MACHINE WHICH WILL NOT BE COVERED UNDER WARRANTY.

091-0385

	<p>WARNING</p> <p>Rotating flywheel and blade could cause severe injury.</p> <p>BEFORE OPENING INSPECTION DOOR: Shut down tractor.</p> <p>Wait for PTO shaft and all moving parts to come to a complete stop.</p> <p>Disconnect PTO shaft from tractor.</p>
	<p>©2005 HCS, LLC www.safetylabel.com 05035 Reorder No. 091-0442</p>

091-0442

	<p>DANGER</p> <p>Entanglement Hazard.</p> <p>Rotating drive shafts will cause serious injury or death.</p> <p>Keep clothes, skin, hair, hands, etc. away from drive shaft.</p> <p>Shut down tractor, wait for all moving parts to come to a complete stop, disconnect PTO shaft before performing any inspection, maintenance or repair to this machine.</p>
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091-0445

SAFE OPERATION PRACTICES

TRAINING

- Read this owner's manual carefully in its entirety before attempting to assemble this machine. Read, understand, and follow all instructions on the machine before operation. Be completely familiar with the controls and the proper use of the machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the unit. Never allow adults to operate the equipment without proper instruction. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use your unit.
- Keep the area of operation clear of all persons, particularly small children and pets. Stop the engine when they are in the vicinity of the unit. Keep work area clean and clear of branches or obstacles, which could cause you to stumble or fall.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
- Your shredder/chipper is a powerful tool, not a plaything. Exercise extreme caution at all times. Your unit has been designed to shred and chip. Do not use it for any other purpose.
- If situations occur which are not covered in this manual, use care and good judgment. Contact your place of purchase for additional assistance.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- Do not operate the machine without wearing adequate outer garments and safety goggles. Always wear safety glasses or goggles during operation and while performing any adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine. Be sure your glasses or goggles fit properly.
- Avoid loose-fitting clothes and use protective footwear that will improve footing on slippery surfaces. Shirt and slacks that cover the arms and legs and steel-toed shoes are recommended. Secure hair above shoulders. Do not wear loose clothes or jewelry that can be caught in moving parts. Never operate a unit in bare feet, sandals or sneakers. Wear gloves when feeding material into the shredder hopper or chipper chute. Be sure your gloves fit properly and do not have loose cuffs or drawstring.
- Never attempt to make any adjustments without shutting off the tractor and disengaging the P.T.O. drive shaft.

OPERATION

- Never place your hands, feet, or any part of your body in the shredder hopper, chipper chute, discharge opening, or near or under any moving part while the shredder/chipper is running. Keep clear of the discharge opening at all times. If it becomes necessary to push material into the shredder hopper or chipper chute, use a small diameter stick, NOT YOUR HANDS.
- Keep your face and body back from the shredder hopper and chipper chute to avoid accidental bounce back of any material.
- The shredder/chipper is designed to be run with the weight of the unit on the ground. Shredding or chipping with the unit while it is off the ground can result in injury to yourself or others, or damage to the machine which may not be covered under warranty.
- The machine should only be operated on a level surface. Never operate your unit on a slippery, wet, muddy, or icy surface.
- Exercise caution to avoid slipping or falling.
- Stay alert for hidden hazards or traffic. Do not carry passengers.
- If the cutting mechanism strikes a foreign object or if your machine should start making an unusual noise or vibration, immediately stop the tractor and wait for all moving parts to come to a complete stop. After the machine has come to a complete stop proceed as follows:
 - Inspect for any damage.

- Repair or replace any damaged parts before restarting and operating the machine.
- If the machine should start to vibrate abnormally, immediately stop the tractor and wait for all moving parts to come to a complete stop and inspect for the cause. Vibration is generally a warning sign of trouble.
- Disengage the P.T.O. drive shaft when leaving the operating position.
- Disengage the P.T.O. when moving the shredder/chipper.
- Stop the tractor and disconnect the P.T.O. drive shaft when making any repairs, adjustments and inspections.
- Take all possible precautions as recommended by the manufacturer when leaving the machine unattended. Stop the tractor and remove the key if so equipped.
- Before cleaning, repairing, or inspecting, shut off the tractor and make certain the flywheel and all moving parts have come to a complete stop.
- Never run this machine in an enclosed area as the exhaust from the tractor engine contains carbon monoxide, which is an odorless, tasteless, and deadly poisonous gas.
- Keep all guards and safety devices in place and operating properly. Do not operate the machine if all safety guards are not in place.
- Do not use the unit with the shredder hopper or chipper hopper removed.
- Keep children and pets away.
 - Tragic accidents can occur if the operator is not alert to the presence of small children.
 - Keep children out of the work area and under the watchful eye of a responsible adult other than the operator.
 - Be alert and turn the unit off if a child enters the area.
 - Never allow children to operate the shredder/chipper.
- Do not overload or attempt to shred or chip material beyond manufacturers recommendation. Personal injury or damage to the machine could result.
- Never operate the machine at high transport speeds or on hard or slippery surfaces.
- Never allow bystanders near the unit while running.
- Only use accessories approved for this machine by the manufacturer. Read, understand, and follow all the instructions provided with the approved accessory.
- Only operate unit in good daylight. Do not operate unit at night or in dark areas where your vision may be impaired.
- Use extreme caution when reversing or pulling the machine towards you.
- This machine is designed to operate at 540 RPM only. Do not operate at a faster speed which may cause serious injury to the operator or bystanders and could cause damage to the machine which will not be covered under warranty.
- Never pick up or transport the machine while the P.T.O. drive shaft is engaged.
- Do not operate while under the use of alcohol, drugs, or medication. A clear mind is essential for safety.
- Do not allow anyone who is not alert to operate this machine.
- When feeding material into this equipment, be extremely careful that pieces of metal, rocks, or other foreign objects are not included. Personal injury or damage to the machine could result.
- Keep area of discharge clear of people, animals, buildings, glass or anything else that will obstruct clear discharge, cause injury or damage. Wind can also change discharge direction, so be aware.
- Do not allow an accumulation of processed material to build up in the discharge area as this will prevent proper discharge and can result in kickback from the shredder hopper or chipper chute.

MAINTENANCE AND STORAGE

- Keep machine, attachments and accessories in safe working condition.
- Check hardware at frequent intervals for proper tightness. Never operate your shredder/chipper in poor mechanical condition or when in need of repair. Be sure all safety guards and shields are in proper position. These safety devices are for your protection.
- Always refer to the operator's manual for important details if the machine is to be stored for an extended period.
- Follow the manufacturer's recommendations for safe loading, unloading and storage of machine.
- If it is necessary for any reason to unclog the feed intake or discharge openings or to inspect or repair the machine where a moving part can come in contact with your body or clothing, shut the tractor off and allow all moving parts to come to a complete stop before attempting to unclog, inspect or repair.
- Check the knife mounting screws at frequent intervals for proper tightness. Also visually inspect the knife for wear or damage. Replace the knife with parts that meet original equipment specifications.
- Knives should be checked for sharpness and the bolts attaching them to the flywheel for tightness every 8-10 hours of operation.
- Check the gap between the knife and wear plate every time you sharpen or replace the knife, or every 8-10 hours of operation.
- Never tamper with safety devices. Check their proper operation regularly.
- Inspect the belt each time you use the unit. Look for damage, worn areas or tears. Do not use the unit if this condition exists.
- This machine is designed to operate at 540 RPM only. Do not operate at a faster speed that may cause serious injury to the operator or bystanders and could cause damage to the machine that will not be covered under warranty.

SECTION II - ASSEMBLY & INSTALLATION

PACKAGE CONTENTS

SKID	POLY BAG	BOLT BAG	PART #
SHREDDER/CHIPPER	OWNER'S MANUAL	1 EA - 1/4" X 1/4" X 1 1/2" KEY	080-0080
CHIPPER HOPPER	WARRANTY CARD	4 EA - 5/16-18 X 3/4" CARRIAGE BOLT	090-0462
SHREDDER HOPPER	HEARING PROTECTORS	6 EA - 5/16 FLAT WASHERS	090-0233
P.T.O. DRIVE SHAFT	SAFETY GLASSES	8 EA - 5/16-18 NYLOCK NUT	090-0460
POLYBAG	GLOVES	2 EA - 3/8-16 X 3/8" SET SCREWS	080-0056
	BOLT BAG	4 EA - 5/16-18 X 1 1/2" HHCS	090-0090
		4 EA - ANTI-VIBRATION MOUNTS	500-0068

TOOLS REQUIRED FOR ASSEMBLY & INSTALLATION

- 1/2" Wrench or socket

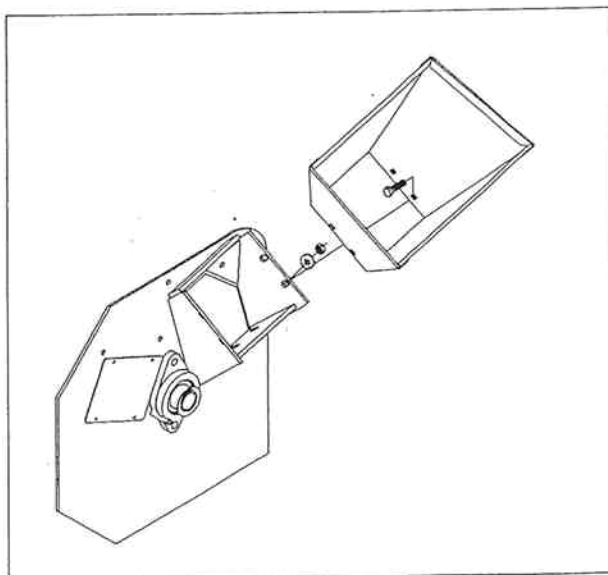
ASSEMBLY

STEP I - UNPACKING AND CHECKING CONTENTS

- Remove the all items from the crate.
- After unpacking the crate, compare the contents with the list above.
- If any parts are missing, contact your place of purchase.
- Assembly should be done on a clean, level surface.

STEP II - ASSEMBLING THE CHIPPER HOPPER

- Assemble chipper hopper to the basic machine using four each 5/16"-18 x 3/4" carriage bolts, 5/16"-18 nylock nuts and 5/16" flatwashers from the bolt bag. Put head of bolt inside hopper with threads sticking out. Tighten all hardware with a 1/2" wrench.



STEP III – ATTACHING THE SHREDDER HOPPER

- To attach the shredder hopper, push the four vibration dampeners (item #28) up into the mount holes on the hopper.
- With the vibration dampeners in the hopper mount holes from step 1, place the hopper on top of the unit. **NOTE:** the slanted side of the hopper faces the discharge end of the shredder/chipper. Align the holes in the side plates with the vibration dampeners.
- Push the four bolts (item #45) up through the side plates and thread them into each vibration dampener until one or two threads appear. Place flatwashers (item #47) on the two vibration dampeners on the flat side of the hopper. Do not use washers on the slanted side of the hopper. Put the locknuts (item #49) in place on top of the bolts coming up through the vibration dampeners. Hold the locknut with a wrench and tighten the bolt until two threads are completely through the nut. **DO NOT OVER TIGHTEN AS THIS WILL DAMAGE THE VIBRATION DAMPENER AND POSSIBLY LEAD TO FURTHER DAMAGE TO YOUR MACHINE.**

