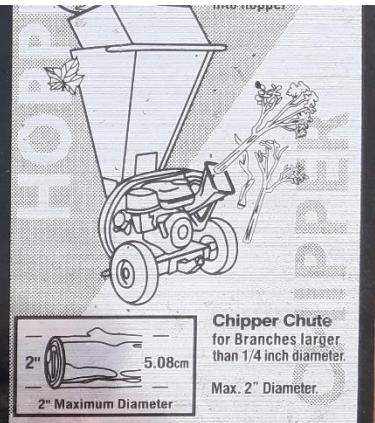


CHIPPER SHREDDER

- 2" Chipping Capacity
- All Steel Design
- Chromium Chipper Blades
- 10:1 Reduction



! WARNING !

IMPORTANT: The knife should be checked for sharpness and the bolts attaching them to the flywheel for tightness every 8-10 hours of operation.

Make certain blades are reassembled with the sharp edge outward (toward the chipper chute). Torque hardware to between 20 ft.-lbs and 25 ft.-lbs.

The shredder blade is sharp. Wear leather work gloves to protect your hands.

Never operate the chipper shredder with the chipper chute in the raised position. Doing so may result in property damage or serious injury to the operator or bystanders.

Never operate the chipper shredder without chipper lowered into the operating position.

Never feed branches with a diameter greater than 3-inches into the chipper. Doing so can result in serious damage to your unit's chipper blade, flails or impeller.

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.



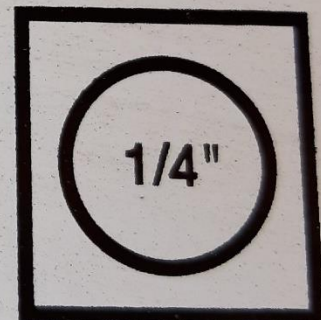
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MDSHREDDER65

! WARNING

Do NOT place branches over 1/4 inch diameter into the large Shredder Hopper. Branches over 1/4 inch in diameter should be placed in the Small Chipper Chute.

Material feed into hopper should be metered as instructed in operator's manual to avoid clogging.



- Read the operator's manual(s) before starting and using unit.
- Keep all shields and guards in place and securely attached.
- Keep hands, feet, face, clothing and long hair out of Shredder Hopper, Chipper Chute and Discharge Chute while the engine is running. Rotating cutting blades inside these openings will cause serious personal injury if contacted. Material being processed may bounce back from inlet openings or be thrown from the discharge chute. Long hair or loose clothing may be pulled or sucked into the inlet openings.
- If the chipper shredder jams or becomes clogged, refer to operator's manual on clearing a blockage.

! DANGER

DO NOT OPERATE THIS MACHINE UNLESS THE CHUTE DEFLECTOR HAS BEEN PROPERLY INSTALLED.

STARTING THE ENGINE

- 1
- 2
- 3
- 4
- 5



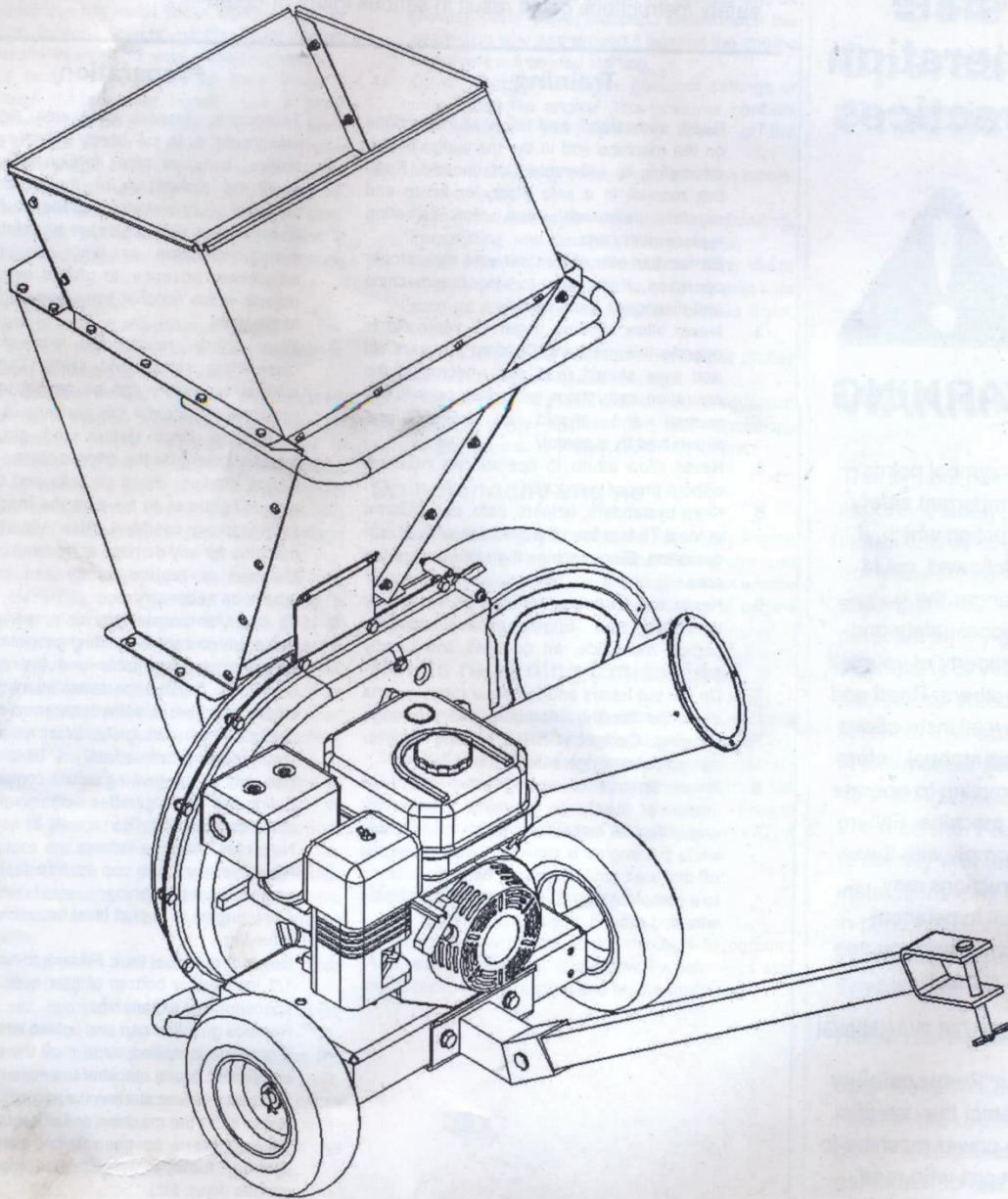
DANGER

- ROTATING CUTTING BLADES. KEEP HANDS AND FEET OUT OF OPENING WHILE MACHINE IS RUNNING.
- DO NOT OPERATE THIS MACHINE UNLESS THE CHUTE DEFLECTOR HAS BEEN PROPERLY INSTALLED AND IS SECURED WITH THE HAND KNOBS.



OPERATOR'S MANUAL

6.5HP Pull Behind Shredder



1

Safe Operation Practices



WARNING

This symbol points out important safety instruction 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 this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol

HEED ITS WARNING!

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine



WARNING: Engine Exhaust, some of its constituents and certain vehicle components contain or emit chemicals to cause cancer and birth defects or other reproductive harm.

DANGER: This machine 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. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death

Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 16 years old to operate this machine. Children 16 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Keep bystanders, helpers, pets, and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
7. Do not put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
8. Never attempt to unclog either the feed intake or discharge opening, remove or empty bag, or inspect and repair the machine while the engine is running. Shut the engine off and wait until all moving parts have come to a complete stop. Disconnect the spark plug wire and ground it against the engine.

Preparation

1. Thoroughly inspect the area where the equipment is to be used. Remove all rocks, bottles, cans, or other foreign objects which could be picked up or thrown and cause personal injury or damage to the machine.
2. Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes or jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals. Wear leather work gloves when feeding material in the chipper chute.
4. Before starting, check all bolts and screws for proper tightness to be sure the machine is in safe working condition. Also, visually inspect machine for any damage at frequent intervals.
5. Maintain or replace safety and instructions labels, as necessary.
6. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
 - a. Use only an approved gasoline container.
 - b. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
 - c. Never fuel machine indoors.
 - d. Never remove gas cap or add fuel while the engine is hot or running.
 - e. Allow engine to cool at least two minutes before refueling.
 - f. Never over fill fuel tank. Fill tank to no more than 1/2 inch below bottom of filler neck to provide space for fuel expansion.
 - g. Replace gasoline cap and tighten securely.
 - h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
 - i. Never store the machine or fuel container inside where there is an open flame, spark, or pilot light(e.g. furnace, water heater, space heater, clothes dryer, etc)
 - j. To reduce a fire hazard, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
 - k. Allow machine to cool at least 5 minutes before storing.

Operation

1. Do not put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
2. Before starting the machine, make sure the chipper chute, feed intake, and cutting chamber are empty and free of all debris.
3. Thoroughly inspect all material to be shredded and remove any metal, rocks, bottles, cans, or other foreign objects which could cause personal injury or damage to the machine.
4. If it becomes necessary to push material through the shredder hopper, use a small diameter stick. Do not use your hands or feet.
5. If it impeller strikes a foreign object or if your machine should start making an unusual noise or vibration, immediately shut the engine off. Allow the impeller to come to a complete stop. Disconnect the spark plug wire, ground it against the engine and perform the following steps:
 - a. Inspect for damage.
 - b. Repair or replace any damaged parts.
 - c. Check for any loose parts and tighten to assure continued safe operation.
6. Do not allow an accumulation of processed material to build up in the discharge area. This can prevent proper discharge and result in kickback of material through the feed opening.
7. Do not attempt to shred or chip material larger than specified on the machine or in this manual. Personal injury or machine damage could result.
8. Never attempt to unclog either the feed intake or discharge opening while the engine is running. Shut the engine off, wait until all moving parts have stopped, disconnect the spark plug wire and ground it against the engine before clearing debris.
9. Never operate without the shredder hopper, chipper chute, or chute deflector properly attached to the machine. Never empty or change discharge bag while the engine is running.
10. Keep all guards, deflectors and safety devices in place and operating properly.
11. Keep your face and body back and to the side of the chipper chute while feeding material into the machine to avoid accidental kickback injuries.
12. Never operate this machine without good visibility or light.
13. Do not operate this machine on a paved, gravel or non-level surface.
14. Do not operate this machine while under the influence of alcohol or drugs.
15. Muffler and engine become hot and can cause a burn. Do not touch.
16. Never pick up or carry machine while the engine is running.

Maintenance & Storage

1. Never tamper with safety devices. Check their proper operation regularly.
2. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage and repair, if needed.
3. Before cleaning, repairing, or inspecting, stop the engine and make certain the impeller and all moving parts have stopped. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.
4. Do not change the engine governor settings or over speed the engine. The governor controls the maximum safe operating speed of the engine.
5. Maintain or replace safety and instruction labels, as necessary.
6. Follow this manual for safe loading, unloading, transporting, and storage of this machine.
7. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.
8. Always refer to the operator's manual for proper instructions on off- season storage.
9. If the fuel tank has to be drained, do this outdoor.
10. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

Do not modify engine

To avoid serious injury or death, do not modify engine in any way. Tampering with governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. Never tamper with factory setting of engine governor.

Notice regarding Emissions

Engines which are certified to comply with California and federal EAP emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline, and may include the following emission control systems: Engine Modification (EM) and Three Way Catalyst (TWC) if so equipped.

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

1

Safe Operation Practices



WARNING

This symbol points out important safety instruction 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 this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol

HEED ITS WARNING!

Your Responsibility
Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine

2

Setting Up Your Chipper Shredder



WARNING

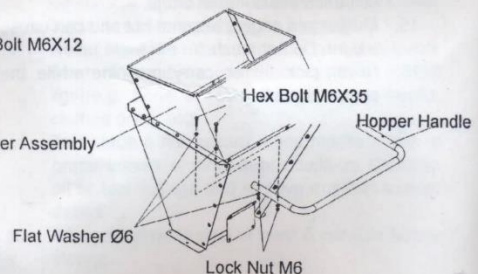
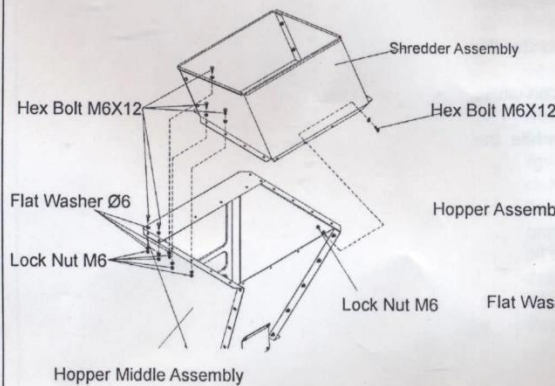
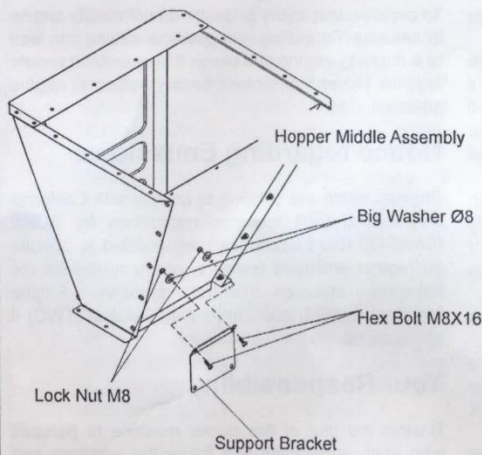
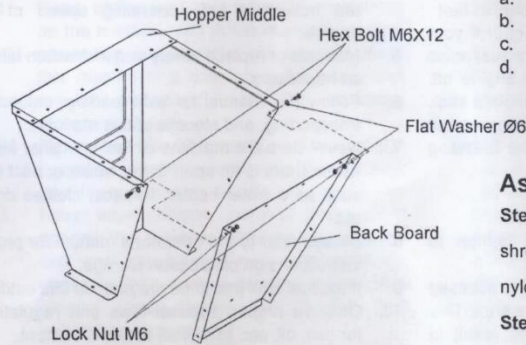
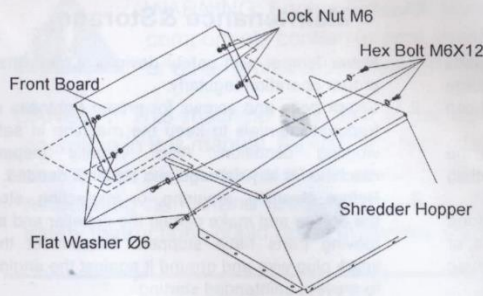
Never operate the chipper shredder with the chipper chute in the raised position. Doing so may result in property damage or serious injury to the operator or bystanders.



IMPORTANT

This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your machine.

NOTE: All references in this manual to the left or right side of the chipper shredder is from the operating position only. Excepting position, if any, will be specified



NOTE: This Operators Manual covers a range of product specifications for various models. Characteristics and feature discussed and/or illustrated in this manual may not be applicable to all models.

IMPORTANT: This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your machine.

Loose Part in Carton

- Debris Collection Bag
- Tow Bar
- Safety Glasses
- Engine Oil

Assemble Your Chipper Shredder

Step 1: Assemble the front board onto the shredder hopper by hex bolt M6X12, locked by nylon lock washer M6 and flat washer Ø6.

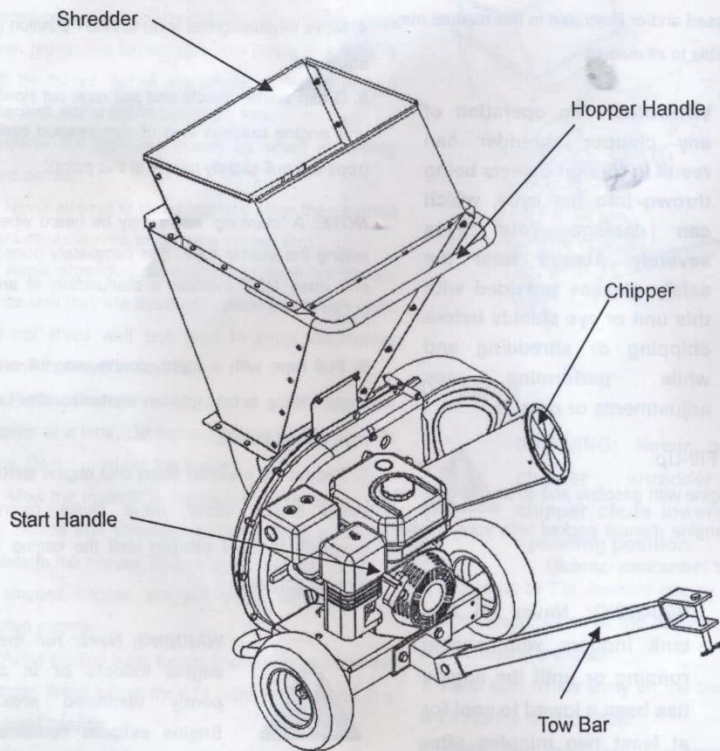
Step 2: Assemble the backboard onto the middle hopper by hex bolt M6X12 and locked by nylon lock nut M6 and flat washer Ø8.

Step 3: Assemble the hopper support bracket onto the middle hopper by Hex bolt M8X16 and locked by big washer Ø8 and nylon lock washer M8.

Step 4: Assemble the shredder hopper onto the middle hopper by hex bolt M6X12 and locked by nylon washer M6 and flat washer Ø6, tighten all the bolts and nuts.

Step 5: Assemble the hopper handle onto the hopper assembly by hex bolt M6X30 and locked by nylon washer M6 and flat washer Ø6.

Know Your Chipper Shredder



Now that you have set up your chipper shredder for operation, get acquainted with its controls and features. These are described below and illustrated on this page. This knowledge will allow you to use your new equipment to its fullest potential.

Chipper Chute

Branches up to 3" in diameter may be fed into the chipper chute for chipping.

Hopper

Leaves, twigs and branches up to 1/2-inch in diameter may be placed into the hopper for shredding.

IMPORTANT: Never place branches with a diameter greater than 1/2-inch in the hopper. Doing so can result in serious damage to your unit's shredder blade, fails or impeller.



WARNING: Never operate the chipper shredder with the chipper chute in the raised position. Use the spring latch to lower the chipper chute into the operating position before starting the engine.

Tow Bar

Use the tow bar to tow the chipper shredder behind a tractor to a job site. See Figure 3-4.

Handle

Use the handle when manually transporting the chipper shredder.

Starter Handle

The starter handle is located on the engine. Pull the starter handle to start engine. See Figure 3-4.

Engine Controls

See the engine Owner/Operator manual packed with your unit for the location and function of the controls on the engine.

2

Setting Up Your Chipper Shredder

IMPORTANT: The knife should be checked for sharpness and the bolts attaching them to the flywheel for tightness every 8-10 hours of operation. Make sure the #28 bolt M8X110 which connect the engine and flywheel should be tighten enough before starting to use this machine.



WARNING

Never operate the chipper shredder with the chipper chute in the raised position.

Doing so may result in property damage or serious injury to the operator or bystanders.



IMPORTANT

This unit is shipped without gasoline or oil in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your machine.

NOTE: All references in this manual to the left or right side of the chipper shredder is from the operating position only. Excepting position, if any, will be specified

3

Operating Your Chipper Shredder



WARNING

The operation of any chipper shredder can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear the safety glasses provided with this unit or eye shields before chipping or shredding and while performing any adjustments or repairs.

Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

Never run the engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

Never stop the engine by moving the choke lever into the CHOKE position. Backfire, fire or engine damage could result.

This Operators Manual covers a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models.



WARNING: The operation of any chipper shredder can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear the safety glasses provided with this unit or eye shields before chipping or shredding and while performing any adjustments or repairs.

Gas and Oil Fill-Up

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your chipper shredder. Read instructions carefully.



WARNING: Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

Starting Engine

IMPORTANT: Because this manual covers several different model units, different starting instructions may apply to your particular engine. Some engines may have a fuel petcock, some may not. Some engine may have On/Off switches, other may not. Some units will utilize a choke system, while others will require priming. These factors depend on what make and model engine comes with your particular unit. For these reasons, please refer to the engine operator's manual for the correct starting procedure.

Basic Starting Procedure:

1. Attach spark plug wire to spark plug. Make certain the metal cap on the end of spark plug is fastened securely over metal tip on the spark plug is fastened securely over metal tip on the spark plug..
2. Open fuel shut-off valve (if equipped) and make sure the On/Off switch is in the On position (if equipped)
3. Move choke control lever to CHOKE position, if equipped. If the unit has a primer, prime the motor as instructed in the engine operator's manual.

NOTE: A warm engine may not require choking or priming.

4. Move throttle control lever to FAST position (if equipped).

5. Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).

NOTE: A "clanking" noise may be heard when pulling the starter rope. It is completely normal and does NOT indicate a malfunction of any kind.

6. Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let rope rewind slowly.

7. Repeat the previous steps until engine starts. When engine starts, move choke control gradually to RUN position until the engine is running smoothly.



WARNING: Never run the engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

Stop Engine

1. Move throttle control lever to STOP position or push rocker switch to OFF.

NOTE: See your engine manual packed with your unit for more detailed instructions.



CAUTION: Never stop the engine by moving the choke lever into the CHOKE position. Backfire, fire or engine damage could result.

Operating The Chipper Shredder Shredding

Yard waste such as leaves and pine needle can be placed in the hopper for shredding. After material has been processed by the shredder blade and flails, it will be forced out of the chute deflector, and, if attached, into a debris collection bag.

Observe the following guidelines when shredding yard debris:

1. Never attempt to shred material other than normal yard debris(leaves, twigs, pine cones, etc)
2. Avoid shredding fibrous plants such as tomato vines until they are thoroughly dried out. Fresh vines do not shred well and tend to wrap themselves around the impeller and flails.
3. Place reasonable amounts of debris into the hopper at a time. Do not overload the hopper. At a time. Do not overload the hopper.
4. Allow the material in the hopper to be drawn into the blades and shredded before adding additional debris to the hopper. Failure to do so may result in a clogged hopper, clogged chute deflector or a stalled engine.
5. Avoid placing twigs longer than 24 inches into the hopper. Twigs longer than 24 inches may result in a clogged hopper.
6. Never place branches with a diameter greater than 1/2-inch in the hopper. Doing so can result in serious damage to the unit's shredder blade, flails or impeller

Clearing the Hopper

Should the hopper become clogged with debris during operation, proceed as follows:

Grasp the handle with both hands and gently agitate the chipper shredder to help loose debris, drawing it into the impeller.

If the clog does not clear, proceed as follows:

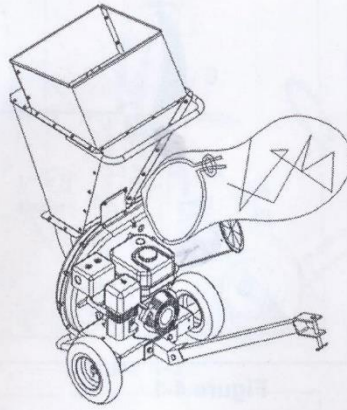
Stop engine.

Use your hands to remove any debris found near the top of the hopper.

Use a branch (or other available device, i.e. broom-stick) to dislodge debris located toward the base of the hopper.

Restart engine.

NOTE: If you're unable to pull the starter rope as a result of accumulated debris near the impeller, follow instructions under the heading **Cleaning the Reduction Chamber** in the "Maintaining Your Chipper Shredder" section of this manual.



Chipping



WARNING: Never operate the chipper shredder without chipper chute lowered into the operating position.

Branches up to 3" in diameter can be fed into the chipper chute. Observe the following guidelines when chipping branches:

1. Keep both hands firmly on the branch as you feed it into the chipper chute.
2. Never feed more than one branch into the chipper chute at a time.
3. Never feed anything other than branches (or wood) into the chipper chute.
4. Apply intermittent pressure (force, in short pulses) while feeding larger (2-3-inch diameter) branches into the chipper chute, to avoid bogging or stalling the engine.

IMPORTANT: Never feed branches with a diameter greater than three(3) inches into the chipper chute. Doing so can result in serious damage to your unit's chipper blades, flails or impeller.

NOTE: For best performance, always operate the unit with sharp chipper blades. If a noticeable loss in performance is encountered while chipping branches, the chipper blades should be replaced..

Emptying the Debris Collection Bag

1. Stop engine.
2. Squeeze the locking buckle to release the bag's draws trap before loosening it from the chute deflector. See Figure 4-1.
3. Empty the bag and reattach to the chute deflector opening.

3

Operating Your Chipper Shredder



WARNING

Never operate the chipper shredder without chipper chute lowered into the operating position.



IMPORTANT

Never place branches with a diameter greater than 1/2-inch in the hopper. Doing so can result in serious damage to your unit's shredder blade, flails or impeller.

IMPORTANT

Never feed branches with a diameter greater than 3-inches into the chipper. Doing so can result in serious damage to your unit's chipper blade, flails or impeller.

4

Maintaining Your Chipper Shredder



WARNING

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.

The impeller's chipper blades are sharp. Wear leather work gloves to protect your hands.

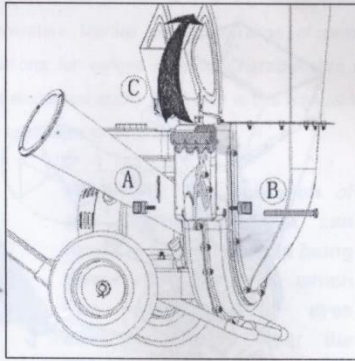


Figure 4-1

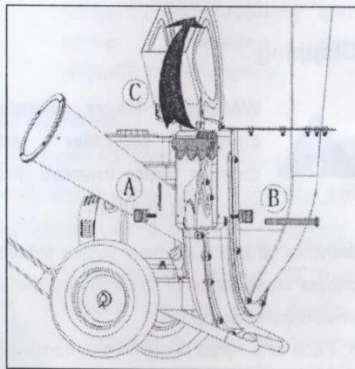


Figure 4-2



WARNING: Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.

Lubrication

1. Lubricate the chipper chute hinge with light oil once a season.
2. Lubricate the pivot points on the chute deflector with light oil once a season.
3. Refer to the Engine Owner/Operator manual packed with your unit for engine lubrication instructions.

Engine Care

Refer to the Maintenance section of the Briggs & Stratton Owner/Operator manual packed with your unit. Read and follow instructions carefully.

1. Check engine oil level before each use as instructed in the separate engine manual.
2. Clean air cleaner's pre-cleaner every 25 hours under normal condition. Clean every few hours under extremely dusty condition. Replace the air cleaner cartridge once a season. To service the air cleaner, refer to the separate engine manual.

3. The spark plug should be cleaned and the gap reset once a season. Refer to the separate engine manual for correct plug type and gap specifications.

Chipper Shredder Care

Before each use, visually inspect your chipper shredder for loose (or missing) nuts and bolts. Securely tighten (to replace) all hardware before operating the chipper shredder.

Cleaning The Reduction Chamber

WARNING: The impeller's shredder blade and chipper blades are sharp. Wear leather work gloves to protect your hands when cleaning out the reduction chamber.



The reduction chamber becomes clogged with debris. The shredder screen can be pivoted upward so that you can clean the surrounding area. To do so, proceed as follows:

1. Stop engine, disconnect spark plug, and make certain the chipper shredder has come to a complete stop.



WARNING: The muffler and surrounding area will be hot when the engine has been running. Use caution and protect your hands if working near the muffler.

2. a. If attached, remove debris bag. Remove the two wing knobs on either side of the chute deflector and pivot the chute deflector upward. See Figure 4-1.
b. Remove the hairpin clip from the clevis pin which extends through the housing and shredder screen. See Figure 4-1. Remove clevis pin.
c. Pivot the shredder screen upward and clean the surrounding area by scraping away debris.
3. Confirm that the spark plug wire is disconnected and away from spark plug. Pull on the starter rope two-to-three times to purge any remaining debris from the reduction chamber.
4. When the area is cleaned, pivot the shredder screen downward and re-secure with the clevis pin and hairpin clip removed earlier.
5. Reattach the debris collection bag to the chute deflector, if desired.

Sharpening Or Replacing Chipper Blades



WARNING: The impeller's chipper blades are sharp. Wear leather work gloves to protect your hands.

1. Stop engine, disconnect spark plug, and make certain the chipper shredder has come to a complete stop.

2. Pivot the shredder screen upward as instructed under the heading Cleaning the reduction Chamber.

3. a. Remove the chipper chute support brace from the frame by removing the two hex bolts and saddle washers which secure it. See Figure 5-2.

b. Remove the chipper chute by removing three hex nuts and washers which secure it to the impeller housing. See Figure 5-2

● Rotate the impeller by hand until one of the two chipper blades is visible through the impeller housing opening.

c. Remove the blade by removing the internal hex screws, lock washers and hex nuts which secure it to the impeller. Retain the hardware

NOTE: Use a 3/16" hex key (Allen) wrench on the outside of the blade and a 1/2" box (or socket) wrench on the inside of the impeller. Hold the Allen Wrench stationary and rotate the box (or socket) wrench to loosen the nut.

4. Install a replacement blade with the hardware removed earlier or sharpen.

IMPORTANT: When sharpening the blade, protect hands by using gloves. Follow the original angle of grind and make sure to remove an equal amount from each blade.

5. To replace the other blade, rotate the impeller to expose the second blade and repeat the steps above.

NOTE: Make certain blades are reassembled with the sharp edge outward (toward the chipper chute). Torque hardware to between 20 ft.-lbs and 25 ft.-lbs.

Sharpening Or Replacing The Shredder Blade



WARNING: The shredder blade is sharp. Wear leather work gloves to protect your hands.

1. stop engine, disconnect spark plug, and make certain that all moving parts have come to a complete stop.

2. Remove the two flange nuts (and hex bolts) which secure the hopper support bracket to the impeller housing. Retain the hardware. See Figure 4-3.

3. Pivot the shredder screen upward as instructed under the heading Cleaning the Reduction Chamber.

a. Remove six flange nuts which secure hopper inlet guide to impeller housing. See Figure 5-4.

● Carefully separate the hopper assembly from the impeller housing and set it aside.

● Insert a piece of wood into the chute deflector opening to stabilize the impeller and prevent it from rotating when removing the shredder blade.

b. Remove the two internal hex screws, hex lock nuts, and lock washers which secure the shredder blade to the impeller. See Figure 4-4.

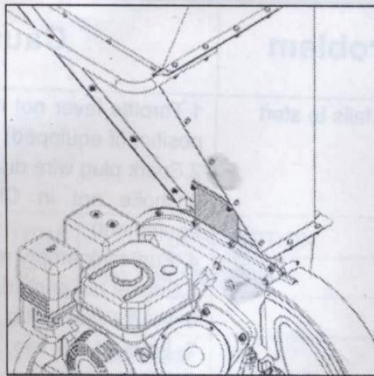


Figure 4-3

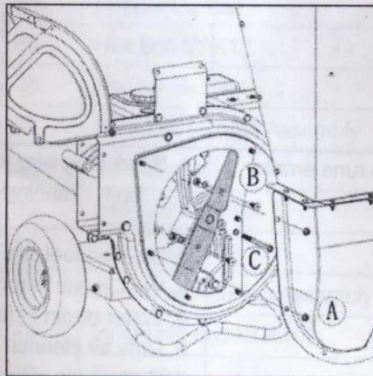


Figure 4-4

NOTE: Use a 3/16" hex key (Allen) wrench on the outside of the shredder blade and a 1/2" box (or socket) wrench on the inside of the shredder blade. Hold the Allen wrench stationary and rotate the box (or socket) wrench to loose the nut.

c. Remove the hex bolt, lock washer, and flat washer to completely free shredder blade. See Figure 4-4.

IMPORTANT: If sharpening the blade for reuse, follow the original angle of grind as a guide. Make certain each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. Remove metal from the heavy side until is balanced evenly.

IMPORTANT: When reassembling the blade, tighten center bolt to between 23 ft.-lbs and 26 ft.-lbs and the two out bolts to between 20 ft.-lbs and 25 ft.-lbs.

Storing Your Chipper Shredder

1. Clean the equipment thoroughly.
2. Wipe equipment with an oiled rag to prevent rust.
3. Refer to engine manual for correct engine storage instructions
4. Store unit in a clean, dry area. Do not store next to corrosive materials such as fertilizer.

4

Maintaining Your Chipper Shredder



WARNING

The shredder blade is sharp. Wear leather work gloves to protect your hands.



IMPORTANT

Make certain chipper blades are reassembled with the sharp edge outward (toward the chipper). Torque hardware to between 20 ft.-lbs and 25 ft.-lbs.

IMPORTANT

When reassembling the shredder blade, tighten center bolt to between 23 ft.-lbs and 26 ft.-lbs and the two out bolts to between 20 ft.-lbs and 25 ft.-lbs.

5

Trouble Shooting



For repairs beyond the minor adjustments listed here, contact an authorized service dealer.

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> 1. Throttle lever not in correct starting position(if equipped) 2. Spark plug wire disconnected 3. Choke not in CHOKE position(if equipment) 4. Fuel tank empty or stale fuel. 5. Engine not primed(if equipped) 6. Faulty spark plug. 7. Blocked fuel line. 8. Engine flooded. 	<ol style="list-style-type: none"> 1. Move throttle lever to FAST or START position 2. Connect wire to spark plug. 3. Move choke lever to CHOKE position. 4. Fill tank clean, fresh gasoline. 5. Prime engine as instruction in Engine Manual. 6. Clean, adjust gap, or replace. 7. Clean fuel line. 8. Wait a few minutes to restart, but do not prime.
Engine runs erratic	<ol style="list-style-type: none"> 1. Spark plug wire loose. 2. Unit running on CHOKE(if equipped) 3. Blocked fuel line or stale fuel. 4. Vent in gas cap plugged. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire. 2. Move choke lever to OFF position. 3. Clean fuel line; fill tank with clean, fresh gasoline. 4. Clear vent. 5. Drain fuel tank. Refill with fresh fuel. 6. Refer to engine manual. 7. See authorized service dealer.
Engine overheats	<ol style="list-style-type: none"> 1. Engine oil level low. 2. Dirty air cleaner. 3. Carburetor not adjusted properly. 	<ol style="list-style-type: none"> 1. Fill crankcase with proper oil. 2. Refer to engine manual. 3. See authorized service dealer.
Occasional skips(hesitates)at high speed	<ol style="list-style-type: none"> 1. Spark plug gap too close. 2. Carburetor idle mixture adjustment improperly set. 	<ol style="list-style-type: none"> 1. Adjust gap to .030" 2. See authorized service dealer.
Excessive Vibration	<ol style="list-style-type: none"> 1. Loose parts or damaged impeller. 	<ol style="list-style-type: none"> 1. See authorized service dealer.
Unit dose not discharge	<ol style="list-style-type: none"> 1. Chute deflector clogged. 2. Foreign object lodged in impeller. 3. Low engine RPM. 	<ol style="list-style-type: none"> 1. Stop engine immediately and disconnect spark plug wire. Clean flail screen and inside of discharge opening. 2. Stop engine and disconnect spark plug wire. Remove lodged object. 3. Always run engine at full throttle.
Rate of discharge slows considerably or composition of discharged material changes	<ol style="list-style-type: none"> 1. Low engine RPM. 2. Chipper blade dull. 	<ol style="list-style-type: none"> 1. Always run engine at full throttle. 2. Replace chipper blade or see your authorized service

5

Parts list

ITEM	DESCRIPTION	QTY
1	R Pin	3
2	Hitch Pin	2
3	Tow Bar	1
4	Hitch Connector	1
5	Hex Bolt M10X20	2
6	Flat Washer Ø10	2
7	Round Head Pin	1
8	Inner Hex Bolt M8X25	6
9	Cotter Pin Ø3X30	2
10	Flat Washer Ø16	4
11	Tire	2
12	Bushing	2
13	Chipper Hopper	1
14	Tube Support	1
15	Nylock Nut M8	40
16	Hex Bolt M8X35	4
17	Frame Assembly	1
18	Axle	1
19	Nylock Nut M10	2
20	Short Blade	2
21	Big Washer Ø8	15
22	Impeller Assembly	1
23	Hammer	4
24	Spring Pin	4
25	Hammer Pin	1
26	Long Blade	1
27	Spring Washer Ø8	1
28	Round Head Bolt M8X110	1
29	Hopper Support Bracket	1

ITEM	DESCRIPTION	QTY
30	Hex Bolt M8X16	15
31	Back Board	1
32	Inlet Guide	1
33	Nylock Nut M6	42
34	Hopper Handle	1
35	Hex Bolt M6X12	37
36	Hopper Middle	1
37	Shredder Hopper Assembly	1
38	Front Board	1
39	Hex Bolt M6X35	4
40	Clapboard	1
41	Outer Fail Housing Assembly	1
42	Inner Hex Bolt M6X100	1
43	Bushing	2
44	Screen	1
45	Hex Bolt M8X40	7
46	Inner Fail Housing Assembly	1
47	Chute Deflector Assembly	1
48	Shield	1
49	Hex Bolt M8X45	1
50	6.5Hp Engine	1
51	Rivet	4
52	Ring	1
53	Safety Vinyl	1
54	Handle Wheel	2
55	Flat Washer Ø6	83
56	Flat Washer Ø8	4
57	Washer Ø8	1

DRAWING

