

Contents of Carton

- One Chipper Shredder
- One Hopper Assembly
- One Chute Deflector
- One Operator's Manual
- One Bag
- One Safety Glasses
- One Engine Operator's Manual
- One Chipper Chute
- One Bottle of Oil

Assembly

NOTE: This unit is shipped without gasoline or oil in the engine. Fill up gasoline and oil as instructed in the accompanying engine manual BEFORE operating your chipper shredder.

Hopper Assembly

1. Remove six hex nuts and washers from the weld studs on the impeller housing. Do not remove the support plate. See Figure 3-1A.

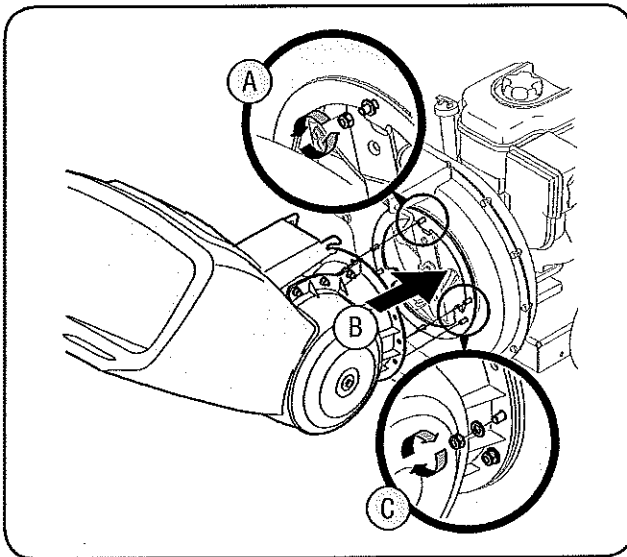


Figure 3-1

2. Place hopper assembly into position in front of impeller housing, aligning holes in hopper assembly collar with weld studs. See Figure 3-1B.
3. Slide hopper assembly onto weld studs and replace washers and hex nuts. See Figure 3-1C. Do not tighten completely.
4. Lift hopper assembly up to impeller bracket assembly. See Figure 3-2A.
5. Slide the release rod out slightly to hook the hopper bracket onto the rod. See Figure 3-2B.
6. Tighten the six hex nuts that secure hopper assembly to impeller housing and also tighten the hex nuts that secure hopper bracket to hopper assembly.

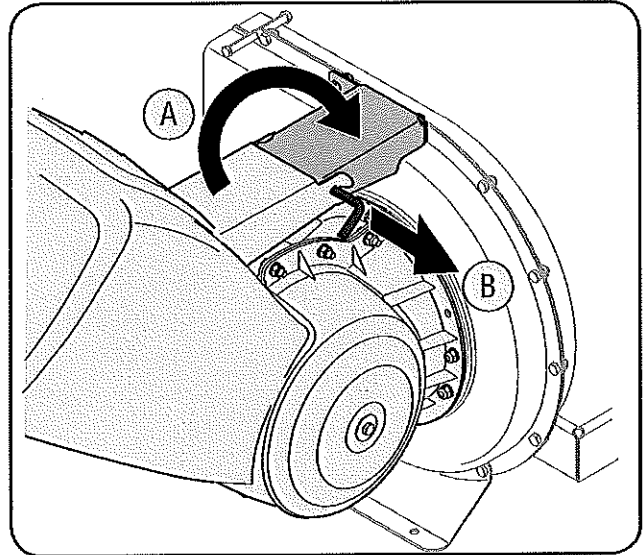


Figure 3-2

Chute Deflector

1. Remove the wing knobs from each side of the lower impeller housing. See Figure 3-3A.
2. Remove the hex lock nut, spacers, and hex bolt from the top of the impeller housing. See Figure 3-3B.

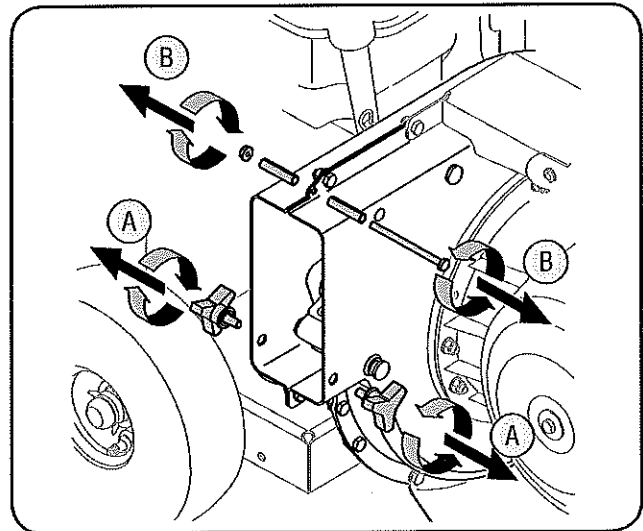


Figure 3-3

- Align the chute deflector in position on the discharge opening and insert hex bolt with spacer through hinge on chute deflector (spacers fit inside of hinges). See Figure 3-4A.
- Place second spacer over hex bolt inside other hinge and secure with hex lock nut. See Figure 3-4B.
- Secure both sides of chute deflector to impeller housing using wing knobs previously removed. See Figure 3-4C.

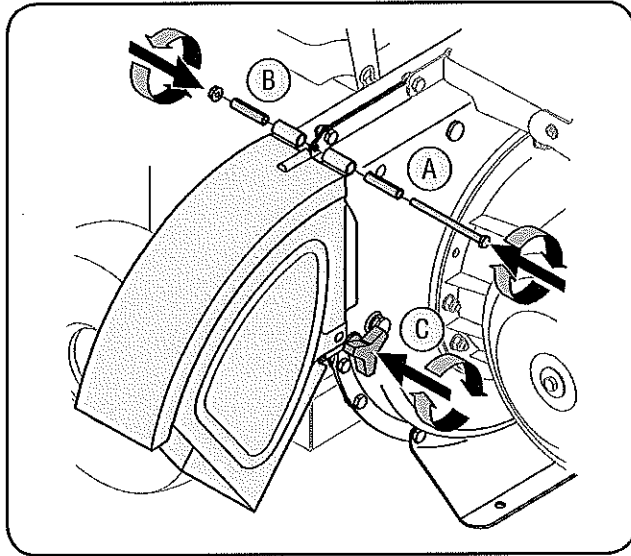


Figure 3-4

Chipper Chute (Model Series 460)

- Remove the three cupped washers and hex nuts from weld studs around the opening on the side of the impeller housing. See Figure 3-5A.
- Remove the hex bolts, flat washers, and lock nuts from the two holes on the upper end of the support brace. See Figure 3-5B.

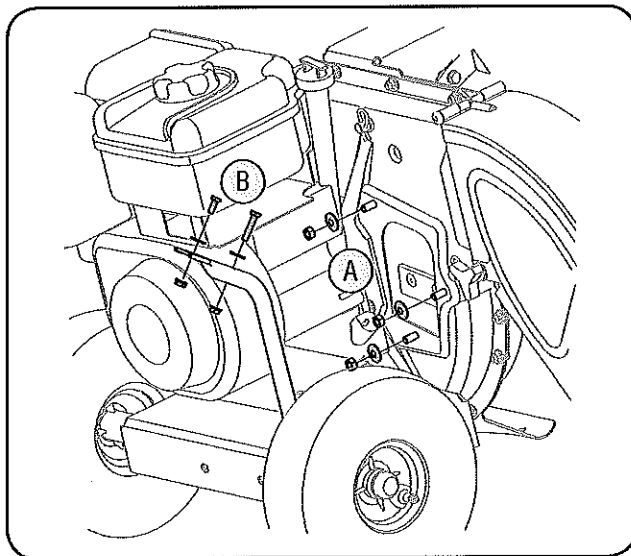


Figure 3-5

- Align the chipper chute over the weld studs, so the slot in the bottom of the chute is facing down. See Figure 3-6A.

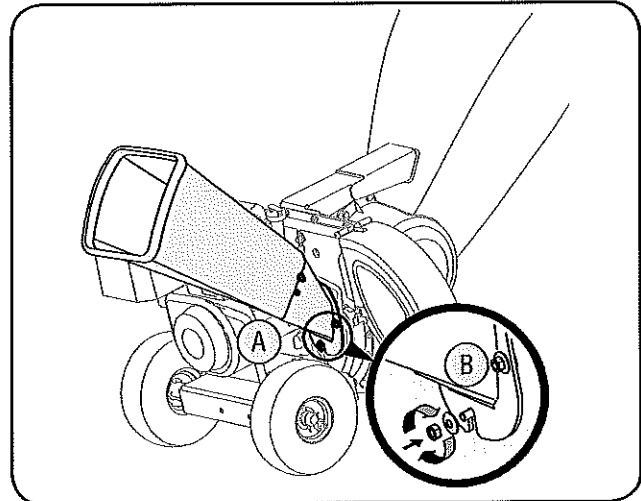


Figure 3-6

- Secure chipper chute with the three cupped washers (cupped side against the chipper chute) and hex nuts previously removed. See Figure 3-6B. Do not tighten the nuts at this time.

The chipper shredder was shipped with one end of the support brace already secured to the lower frame. Loosen but do not remove the bolts securing the brace to the frame.

- Align the holes in the chute with the holes in the top of the brace and attach brace to chipper chute with hardware previously removed. The flat washers should be placed under the bolt heads and against the inside surface of the plastic chipper chute. See Figure 3-7A. Tighten securely.
- Tighten the bolts securing the support brace to the frame. See Figure 3-7B.
- Tighten the three nuts on the weld studs holding the chipper chute to the impeller housing. See Figure 3-7C.

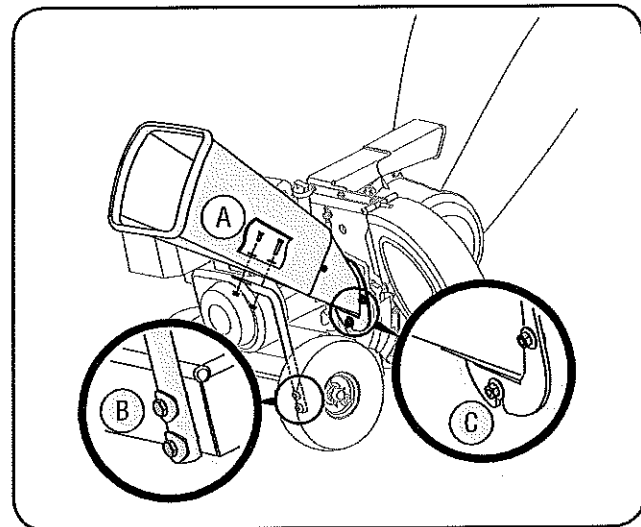


Figure 3-7

Bag

1. Place the opening of the bag completely over the chute deflector. See Figure 3-8A.
2. Pull on the drawstring until the bag is tight around chute deflector opening. See Figure 3-8B.
3. Clip drawstring back on itself, tight against chute deflector to secure into position. See Figure 3-8C.

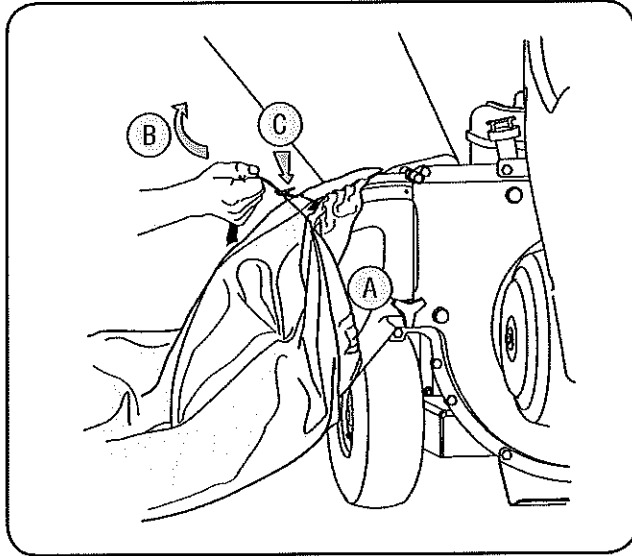


Figure 3-8

Set-Up

Gas and Oil Fill-Up

Refer to the separate engine owner's manual for additional engine information.

1. Add oil provided before starting unit for the first time out of the box.
2. Service the engine with gasoline as instructed in the separate engine owner's manual.



WARNING: Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.



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.

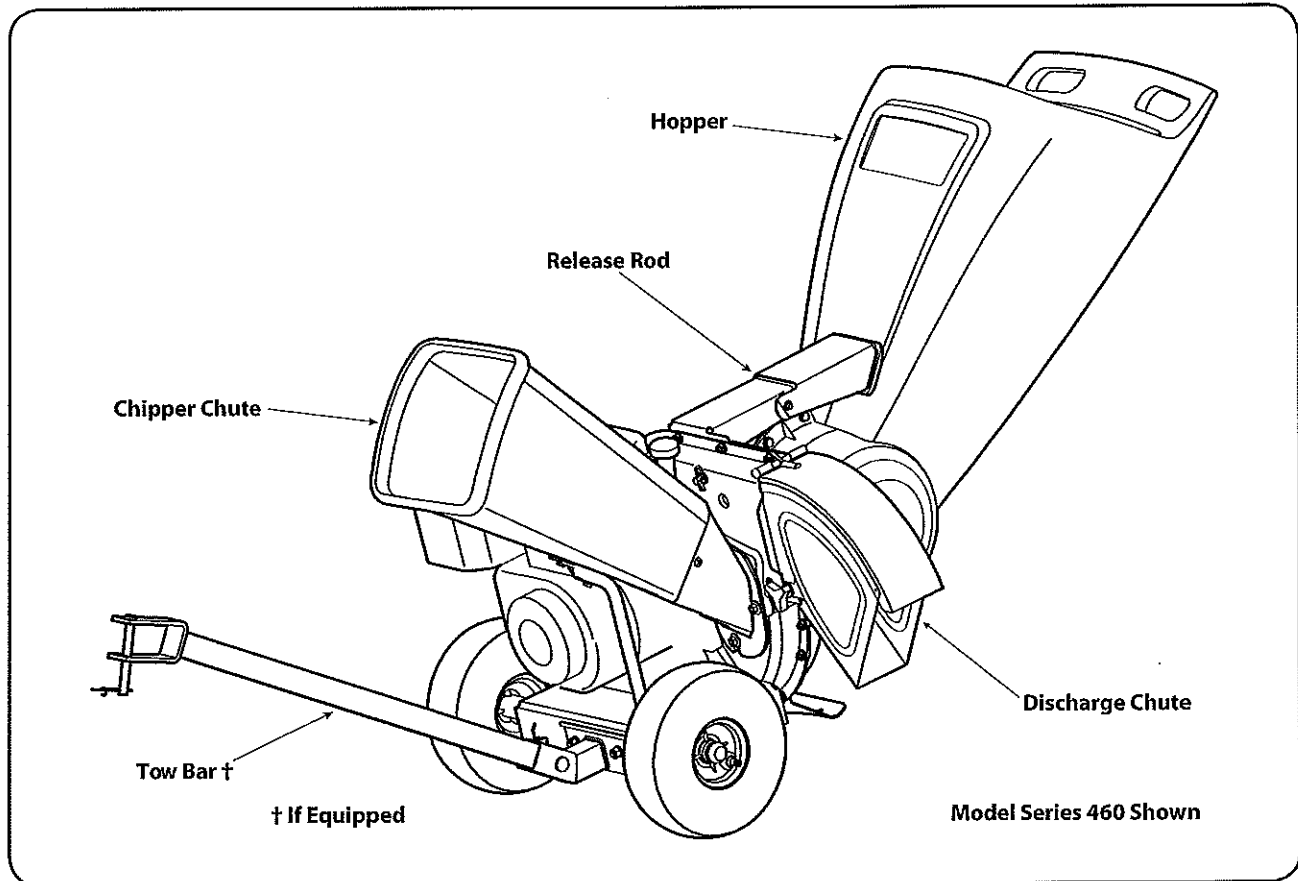


Figure 4-1

Chipper Chute

Model Series 450: Allows twigs and small branches up to 2" in diameter to be fed into the impeller for chipping.

Model Series 460: Allows twigs and small branches up to 3" in diameter to be fed into the impeller for chipping.

Hopper

Allow leaves and small branches up to 1/2" diameter to be fed into the impeller for chipping and shredding. Material can be raked into the hopper by lowering it down to the ground.

Release Rod

The release rod is located on the impeller bracket assembly and it is used to release or lock the hopper when raising or lowering.

Discharge Chute

Debris exits the machine's reduction chamber through the discharge chute.

Oil Fill Cap

Remove oil cap to add oil. Refer to the engine operator's manual for checking and adding oil instructions.

Fuel Fill Cap

Remove the fuel cap to add fuel. Unit runs on regular gas.

Engine Controls

See the engine operator's manual packed with your unit for the location and function of the controls on the engine.