CAUTION:
Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

• Safety
• Assembly
• Operation
• Maintenance
• Parts

FITS HUSQVARNA TRACTORS AND CRAFTSMAN TRACTORS WITH MODEL NUMBERS THAT BEGIN WITH 917.
The model number and serial numbers will be found on a decal attached to the snow thrower.

You should record both the serial number and the date of purchase and keep in a safe place for future reference.

MODEL NUMBER: 486.248371
SERIAL NUMBER: __________________
DATE OF PURCHASE: __________________
SAFETY

Read and understand the operating instructions before using.

Keep the area of operation clear of all persons, especially small children and pets. Thoroughly inspect the area to be cleared and remove all door mats, sleds, boards, wires and other foreign objects. Use extreme caution when operating on or crossing gravel surfaces. Never direct discharge at bystanders or allow anyone in front of the snow thrower.

- Never allow children to operate the equipment.
- Never allow adults to operate the equipment without proper instruction.
- Disengage all clutches and shift into neutral before starting engine.
- Do not operate equipment without wearing adequate winter outer garments.
- Wear substantial footwear which will protect feet and improve footing on slippery surfaces.
- Check fuel before starting the engine. Do not remove the fuel cap or fill the fuel tank while the engine is running or hot. Do not fill the fuel tank indoors.
- Make sure the snow thrower height is adjusted to clear the type surface it will be used on.
- Do not use the snow thrower without wheel weights attached to the tractor.
- Never make any adjustments while the engine is running.
- Always wear safety glasses or eye shield during operation or while performing adjustment or repair.
- Do not place hands or feet near rotating parts. Keep clear of the discharge opening at all times.
- Do not carry passengers.
- After striking a foreign object, stop the engine, remove the wire from the spark plug and then thoroughly inspect the snow thrower for damage. Repair any damage before restarting and operating the snow thrower.
- If the snow thrower starts to vibrate abnormally, stop the engine immediately and check for the cause. Vibration is generally a warning of trouble.
- Stop the engine whenever you leave the operating position, before unblocking the snow thrower or making any adjustments or inspections.
<table>
<thead>
<tr>
<th>REF.</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
<th>REF.</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
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<td>AA</td>
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<td>Bowed Washer</td>
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<td>Hex Bolt, 1/2&quot; x 1-1/4&quot;</td>
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<td>Lock Washer, 3/8&quot;</td>
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<td>Spacer, 1/2&quot;</td>
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<td>Jam Nut, 1/2&quot;</td>
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<td>Shear Bolt (spare parts)</td>
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<td>6</td>
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<td>MM</td>
<td>3</td>
<td>Chute Keeper</td>
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<tr>
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<td>4</td>
<td>Hairpin Cotter, 5/64&quot;</td>
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<td>4</td>
<td>Hairpin Cotter, 1/8&quot;</td>
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<td>Quick Release Pin</td>
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<td>Plastic Cap</td>
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<td>4</td>
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<td>Spacer, 3/8&quot;</td>
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<td>Spacer, 3/8&quot;</td>
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<td>V</td>
<td>2</td>
<td>Chain, Tensioning</td>
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<tr>
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<td>8</td>
<td>Washer, 1/2&quot; x 1-1/2&quot;</td>
<td>W</td>
<td>2</td>
<td>Tail Reflector</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Not all items supplied in the hardware bag will be needed for your particular tractor. Unneeded items may be discarded after you have completed assembly and checked operation of unit. **DO NOT DISCARD** the two spare shear bolts (K) and 5/16" nylock nuts (HH). Refer to the Service and Adjustments section on page 28.
CARTON CONTENTS

1. Housing Assembly
2. Lift Handle and Cable
3. Chute Crank Rod Assembly
4. Support Tube, Crank Rod
5. Engagement Rod (Not used on some models)
6. Cable Bracket
7. Engine Pulley Keeper (Not used on some models)
8. Chute and Control Cable Assembly
9. Clutch Idler Assembly
10. Rear Pulley Frame Bracket (2)
11. Anti-rotation Bracket.

12. Front Pulley Frame Bracket (2)
13. V-Belt, Drive 56” (#48138)
14. V-Belt, Drive 55” (#46989)
15. V-Belt, Auger (Attached to Housing Assembly)
16. L.H. Hanger Bracket (Outside Mounting)
17. R.H. Hanger Bracket (Outside Mounting)
18. L.H. Hanger Bracket (Outside Mounting)
19. R.H. Hanger Bracket (Inside Mounting)
20. Left Hand Side Plate
21. Right Hand Side Plate
22. Pulley
23. Spacer, 3/8”

ONLY ITEMS NEEDED FOR CRAFTSMAN MODEL 917 TRACTORS AND HUSQVARNA TRACTORS ARE SHOWN
TOOLS REQUIRED FOR ASSEMBLY

(2) 7/16" Wrenches
(2) 1/2" Wrenches
(2) 9/16" Wrenches
(2) 3/4" Wrenches
(1) Screw Driver
(1) Knife

ADDITIONAL ITEMS REQUIRED
General Purpose Grease

REMOVAL OF PARTS FROM CARTON

• Remove all loose parts, parts bags and hardware bags from the carton. Lay out and identify parts and hardware using the illustrations on pages 4, 5 and 6. The parts bag labeled for 247 model tractors will not be needed.

IMPORTANT: Not all items supplied in the hardware bag will be needed for your particular tractor. Unneeded items may be discarded after you have completed assembly and checked operation of unit. DO NOT DISCARD the two spare shear bolts and 5/16" nylock nuts. Refer to the Service and Adjustments section on page 28.

CAUTION: Before starting to assemble the snow thrower, remove the spark plug wire(s), set the parking brake and remove the key from the tractor ignition.

LOCATE THE MODEL LABEL
Look under the tractor seat to locate the model number label. If the model number starts with 917 as shown below, use this manual. If the model number starts with 247, use the owner's manual in the parts bag for tractors with model numbers starting with 247.

917 MODEL TRACTORS

IMPORTANT: Right hand (R.H.) and left hand (L.H.) side of the tractor are determined from the operators position while seated on the tractor.

IF YOU HAVE A HUSQVARNA TRACTOR
Skip to "TOOLS REQUIRED FOR ASSEMBLY"

IF YOU HAVE A CRAFTSMAN TRACTOR

LOCATE THE MODEL LABEL

Before performing these instructions, refer to the Service and Adjustments section of your tractor owner's manual for specific safety instructions.

• Allow engine, muffler and exhaust deflector to cool before beginning.
• Remove any front or rear attachment which is mounted to your tractor.
• Remove the mower deck. Refer to your tractor owner's manual for removal instructions. Mark all loose parts and save for reassembly.
• Remove the tractor hood. Refer to your tractor owner's manual for removal instructions.

IMPORTANT: Right hand (R.H.) and left hand (L.H.) side of the tractor are determined from the operators position while seated on the tractor.

TRACTOR PREPARATION

Before performing these instructions, refer to the Service and Adjustments section of your tractor owner's manual for specific safety instructions.

• Allow engine, muffler and exhaust deflector to cool before beginning.
• Remove any front or rear attachment which is mounted to your tractor.
• Remove the mower deck. Refer to your tractor owner's manual for removal instructions. Mark all loose parts and save for reassembly.
• Remove the tractor hood. Refer to your tractor owner's manual for removal instructions.

IMPORTANT: Right hand (R.H.) and left hand (L.H.) side of the tractor are determined from the operators position while seated on the tractor.
IDENTIFY YOUR TRACTOR

STEP 1: (SEE FIGURE 1)
- Look under the front of your tractor. If there is a single mower deck suspension bracket located underneath the middle of the front axle, continue on to step 2. If your tractor does not have a mower deck suspension bracket underneath the middle of the front axle, skip to step 21 on page 14 for tractors with dual suspension brackets.

FIGURE 1

INSTRUCTIONS FOR TRACTORS WITH SINGLE FRONT DECK SUSPENSION BRACKET

STEP 2: (SEE FIGURE 2)
- Remove the browning shield from the front of the tractor as shown. Hold onto the shield as you remove the second screw to prevent it from falling.
- Be sure to reinstall the browning shield when so instructed in step 3.

FIGURE 2

STEP 3: (SEE FIGURE 3)
- Fasten the R.H. Side Plate (bend facing out) to the front three holes in the tractor frame using three 3/8" x 1" carriage bolts, three 1/2" x 1-1/2" washers (see note) and three 3/8" flange nuts. For the rear hole, use a 5/16" x 1" carriage bolt, a 1/2" x 1-1/2" washer and a 5/16" nylock nut. Place the washers between the tractor frame and the side plate. Repeat for L.H. side plate.
- Reinstall the browning shield onto the tractor frame using the original screws.

NOTE: If there is an engine mounting plate (shown with dotted lines) leave the washer off the bolt that goes through the plate.

FIGURE 3

INSTALL SIDE PLATES

STEP 4: (SEE FIGURE 4)
- Assemble a shoulder bolt and a 3/8" washer to the outside of R.H. side plate, securing it with a 3/8" flanged nut. Repeat for L.H. side plate.

FIGURE 4
INSTALL HANGER BRACKETS AND SHOULDER BOLTS TO OUTSIDE OF FRAME

STEP 5:  (SEE FIGURE 5)
• Remove the bolt, if present, in the hole directly behind the brake rod on the left side of the tractor frame.
• Attach the L.H. Hanger Bracket (tube facing out) to the hole using a 5/16" x 3/4" self threading bolt.
• Install a round head shoulder bolt into the hole that is 9-1/2" to the rear of the bolt you just installed. Secure it with a 3/8" flange nut on the inside of the frame.

STEP 6:  (SEE FIGURE 6)
• Remove the bracket, if present, from the hole directly behind the end of the brake rod on the right side of the tractor frame. Store the bracket and bolt.
• Attach the R.H. Hanger Bracket to the hole using a 5/16" x 3/4" self threading bolt.
• Install a round head shoulder bolt into the hole that is 9-1/2" to the rear of the bolt you just installed. Secure it with a 3/8" flange nut on the inside of the frame.
THIS SECTION IS FOR TRACTORS WITH A MANUAL ATTACHMENT CLUTCH
If your tractor has an electric attachment clutch go to step 14 on page 12.

STEP 7: (SEE FIGURE 7)
- Attach the cable bracket to the double hole in the clutch/idler assembly as shown, using a 5/16" x 3/4" carriage bolt and a 5/16" nylock nut. Place the bolt in the front hole of the bracket and in the end of the hole closest to the pulley. Do not tighten yet.

FIGURE 7

STEP 8: (SEE FIGURE 8)
- Attach the pulley (long end of hub facing down) and the 3/8" spacer to the clutch/idler assembly. Use a 3/8" x 3-1/4" hex bolt, a 3/8" washer, a 3/8" lock washer and a 3/8" hex lock nut.
- Insert a tensioning chain through the hole shown and attach the end link to the spring on the lower idler arm.

FIGURE 8

STEP 9: (SEE FIGURE 9)
- Attach each rear pulley frame bracket to the inside of the clutch/idler assembly using two 5/16" x 3/4" hex bolts, 5/16" washers and 5/16" nylock nuts.
- Attach each front pulley frame bracket to the inside of the clutch/idler assembly using two 5/16" x 1" hex bolts, four 5/16" washers and two 5/16" nylock nuts.

FIGURE 9

STEP 10: (SEE FIGURE 10)
- Three different length drive belts are included with your snow thrower. Tractors with manual attachment clutches and single front deck suspension brackets use the 56" drive belt with #48138 printed on the outside of the belt. DO NOT USE the other drive belts.
- Slightly loosen the hex bolt next to the flat idler pulley. Install the drive belt down between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. Retighten the hex bolt.
- Loop the belt around the large v-pulley, placing it between the v-pulley and the hex bolt next to the pulley. Place the belt to the inside of the other flat idler pulley.

FIGURE 10

STOP
Did you select the correct drive belt for your tractor? Using the wrong length belt may cause premature bearing or belt failure.
STEP 11: (SEE FIGURE 11)
- Find the cable clip that is attached to the left side of the tractor frame underneath the footrest. Open the clip and remove the mower clutch cable. Do not remove the clip from the tractor frame. The cable reattaches to the clip when using the mower deck.
- Move the attachment clutch lever on the dash panel to the disengaged position.
- Place the clutch/idler assembly on the floor on the left side of the tractor.
- Attach the tractor’s mower clutch cable to the cable bracket on the clutch/idler assembly. Secure the cable housing guide (groove down) to the cable bracket using the original collar and a 5/64" hair cotter pin.
- Place a 1/4" spacer on the welded pin on the idler arm. Hook the end of the clutch cable spring over the pin and secure it with a 1/4" washer and a 5/64" hair cotter pin.
- Align cable bracket with welded pin and tighten the nut assembled in step 9.

ATTACH CLUTCH IDLER ASSEMBLY TO TRACTOR

STEP 12: (SEE FIGURE 12)
- Attach the clutch/idler assembly to the tractor frame. Hook the notched rear pulley frame brackets onto the two shoulder bolts assembled to the outside of the tractor frame. Lift the front of the assembly and attach it to the R.H. and L.H. hanger brackets using two pivot lock pins and 1/8" hairpin cotters.
- Loosely attach the mower clutch cable to the left side of the tractor frame with a nylon tie. Do not pull the nylon tie completely tight. The cable may need to be removed from the nylon tie when using the mower deck.

STEP 13: (SEE FIGURE 13)
- Assemble the drive belt onto the engine pulley first and then onto the large pulley on top of the clutch/idler assembly. The belt must be placed inside the engine pulley belt keeper(s) and between the large pulley and the keeper bolt next to it.

IMPORTANT: Do Not assemble the “V” belt outside of the engine pulley keepers or outside of the keeper bolt next to the large pulley.

- Go to step 48 on page 22.
THIS SECTION IS FOR TRACTORS WITH AN ELECTRIC ATTACHMENT CLUTCH

STEP 14: (SEE FIGURE 14)
- Turn the clutch idler assembly upside down.
- Hook the spring onto the end of the bolt that extends through the nut on the bottom of the upper idler arm. Install a 3/8” hex lock nut onto the bolt, leaving enough space for the spring to pivot.

**FIGURE 14**

STEP 15: (SEE FIGURE 15)
- Insert tensioning chains through the holes shown and attach to the springs on the upper and lower idler arms.
- Install a 3/32” hairpin cotter in the chain attached to the upper idler arm, placing it in the fifth link from the spring.

**FIGURE 15**

STEP 16: (SEE FIGURE 16)
- Attach each rear pulley frame bracket to the inside of the clutch/idler assembly using two 5/16” x 3/4” hex bolts, 5/16” washers and 5/16” nylock nuts.
- Attach each front pulley frame bracket to the inside of the clutch/idler assembly using two 5/16” x 1” hex bolts, four 5/16” washers and two 5/16” nylock nuts.

**FIGURE 16**

SELECT THE CORRECT DRIVE BELT
(Electric clutch tractors with a single front deck suspension bracket)

STEP 17: (SEE TABLE 1)
- Three different length drive belts are included with your snow thrower. Select one of the two belts listed below that is correct for your tractor. The part number is printed on the outside of the belt.
- Set aside the belts that are not for your tractor, to avoid accidentally using them.

<table>
<thead>
<tr>
<th>BELT TYPE</th>
<th>TRACTOR TYPE</th>
<th>DECK SIZE</th>
<th>CLUTCH TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>55&quot; BELT (PART #46989)</td>
<td>(LT) Lawn Tractor</td>
<td>38&quot;, 42&quot;</td>
<td>Electric</td>
</tr>
<tr>
<td>56&quot; BELT (PART #48138)</td>
<td>(LT) Lawn Tractor</td>
<td>48&quot;</td>
<td>Electric</td>
</tr>
<tr>
<td></td>
<td>(GT) Garden Tractor</td>
<td>48&quot;, 54&quot;</td>
<td>Electric</td>
</tr>
</tbody>
</table>

**TABLE 1**
**STEP 18: (SEE FIGURE 17)**
- Turn the clutch/idler assembly right side up.
- Slightly loosen the hex bolt next to the flat idler pulley. Install the drive belt down between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. Retighten the hex bolt.
- Loop the belt around the large v-pulley, placing it between the v-pulley and the hex bolt next to the pulley.

**STEP 19: (SEE FIGURE 18)**
- Attach the clutch/idler assembly to the tractor frame. Hook the notched rear pulley frame brackets onto the two shoulder bolts assembled to the outside of the tractor frame. Lift the front of the assembly and attach it to the R.H. and L.H. hanger brackets using two pivot lock pins and 1/8” hairpin cotters.

**STEP 20: (SEE FIGURE 19)**
- Assemble the drive belt onto the engine pulley first and then onto the large pulley on top of the clutch/idler assembly. Place the belt to the inside of the idler pulley and the belt keeper bolt located beside the large pulley.
- Place tension on the belt by pulling the left side tensioning chain out as far as the 3/32” hairpin cotter in the chain will allow. Secure the chain in this position by inserting a 1/8” hairpin cotter through the chain.

**IMPORTANT:** Do Not assemble the drive belt around the outside of the keeper bolt beside the large pulley.
- Go to step 48 on page 22.

---

**STOP**
Did you choose the correct drive belt for your tractor? Using the wrong length belt may cause premature bearing or belt failure.

---

**FIGURE 17**

**FIGURE 18**

**FIGURE 19**
INSTRUCTIONS FOR TRACTORS WITH DUAL FRONT DECK SUSPENSION BRACKETS

FASTEN SIDE PLATES TO TRACTOR
If your tractor resembles figure 20, go to step 21.
If your tractor resembles figure 22, go to step 23.

STEP 21: (SEE FIGURE 20)
- Remove bolts from front three holes shown.
- If a bolt is present in the fourth hole, replace it with a 5/16” x 1” carriage bolt without a nut. The bracket fastened to inside of frame must remain in place.

NOTE: If you installed a bolt in the fourth hole in step 21, assemble a 3/8” flanged nut onto the bolt.

STEP 22: (SEE FIGURE 21)
- Fasten the R.H. Side Plate (bend facing out) to the front three holes shown in the tractor frame using three 3/8” x 1” thread forming bolts, three 3/8” lock washers and one 1/2” washer placed on the third bolt as a shim between the side plate and the frame. Tighten all bolts. Repeat for the L.H. side.

NOTE: If you installed a bolt in the fourth hole in step 21, assemble a 5/16” flange nut onto the bolt.

- Go to step 25 on this page.

STEP 23: (SEE FIGURE 22)
- Remove any bolts found in the holes shown.

STEP 24: (SEE FIGURE 23)
- Fasten the R.H. Side Plate (bend facing out) to the three holes shown in the tractor frame. Use three 3/8” x 1” thread forming bolts, 1/2” washers and 3/8” lock washers. Tighten all bolts and repeat for the L.H. side.

NOTE: If the bolt inserts freely into the front hole, assemble a 3/8” flanged nut onto the bolt.

STEP 25: (SEE FIGURE 24)
- Assemble a shoulder bolt and a 3/8” washer to the outside of each side plate, securing them with a 3/8” flanged nut.
INSTALLING HANGER BRACKETS
For better clearance, lower the tractor's suspension arms using the attachment lift lever.

STEP 26: (SEE FIGURE 25 or 26)
On Tractors With Foot Rest Brackets
- Remove the bolt and nut that fasten the L.H. and R.H. foot rest brackets to the frame.
- Attach the L.H. Hanger Bracket (marked "L") to the inside of the tractor frame using two 3/8" x 1" carriage bolts and 3/8" flanged nuts. Bolt heads go on inside of tractor frame. Repeat for the R.H. side.

On Tractors Without Foot Rest Brackets
- Find the empty hole beneath the foot rest. Attach the L.H. Hanger Bracket (marked "L") to the inside of the frame using a 3/8" x 1" carriage bolt and a 3/8" flanged nut. Bolt head goes on inside of tractor frame. Repeat for the R.H. side.

INSTALLING SHOULDER BOLTS

STEP 27: (SEE FIGURE 27)
- Remove the bolt, washer and nut which fasten the sway bar bracket to the L.H. side of the tractor frame. Replace with a shoulder bolt and a 3/8" flanged nut. Bolt goes on inside of frame.

STEP 28: (SEE FIGURE 28)
- Assemble a shoulder bolt and 3/8" flanged nut to the R.H. side of the tractor frame, using the first empty hole to the rear of the R.H. hanger bracket. Bolt goes on inside of frame.
INSTALLING CLUTCH/IDLER ASSEMBLY
This section covers the installation of the Clutch/Idler assembly to tractors with attachment clutches that are either rod operated (p. 16), cable operated (p. 18) or electric (p. 20). Use the appropriate instructions for your tractor.

ROD OPERATED MANUAL ATTACHMENT CLUTCH

STEP 29: (SEE FIGURE 29)
- Move the attachment clutch lever on the dash panel to the disengaged (down) position.
- Screw the trunnion onto the end of the snow thrower engagement rod.
- Locate the clutch arm (where the mower clutch rod was connected) underneath the right hand side the tractor, just to the inside of the suspension arm. If there is an extension attached to the clutch lever, the extension, bolt and nut must be removed and stored with the mower deck.

IMPORTANT: Re-attach the extension to the clutch lever before reinstalling the mower deck.
- Position the engagement rod to the inside of the clutch arm and insert the drilled end of the rod through the arm. Secure with a 5/64” hairpin cotter.

STEP 30: (SEE FIGURE 30)
- Attach the two rear pulley frame brackets to the inside of the clutch/idler assembly using two 5/16” x 3/4” hex bolts, 5/16” washers and 5/16” nylock nuts for each bracket. Add extra washers if needed.
- Insert a tensioning chain through the hole shown and attach the end link to the spring on the lower idler arm.

STOP
Did you choose the correct drive belt for your tractor? Using the wrong length belt may cause premature bearing or belt failure.
STEP 32: (SEE FIGURE 32)
- Be sure to lift up the front end of the engagement rod as shown when performing the next operation. You can temporarily support the rod using a rubber band tied to the engine pulley keeper.
- Attach the clutch/idler assembly to the tractor frame as follows. Hook the assembly’s notched rear pulley frame brackets onto the two shoulder bolts you assembled to the inside of the tractor frame. Lift the front of the assembly and attach it to the R.H. and L.H. hanger brackets using two pivot lock pins and 1/8” hairpin cotters.

STEP 33: (SEE FIGURE 33)
- Make sure the attachment clutch lever on the dash panel is in the disengaged (down) position.
- Pivot the upper idler arm so that it rests against the stop bolt and is pointing toward the front as shown. Screw the trunnion along the threads of the engagement rod until it is aligned at the front end of the idler arm slot. Attach the trunnion to the slot using the 3/8” thin washer and a 5/64” hairpin cotter.
- Remove the engine pulley keeper from the side of the tractor frame by removing the washer and nut that secure the keeper. Attach the new pulley keeper supplied with the snow thrower, reusing the original bolt, washer and nut.

NOTE: Some tractors may already be equipped with a pulley keeper that is identical to the new one supplied.

STEP 34: (SEE FIGURE 34)
- Assemble the short "V" belt onto the engine pulley and then onto the large pulley on top of the clutch/idler assembly. The belt must be placed to the inside of the engine pulley keeper, the idler pulley and the keeper bolt located beside the large pulley.

IMPORTANT: Do Not assemble the "V" belt around the outside of the engine pulley keeper or the keeper bolt.
- Go to step 48 on page 22.
CABLE OPERATED MANUAL ATTACHMENT CLUTCH

STEP 35: (SEE FIGURE 35)
- Assemble the cable bracket to the inner half of the double holes in the bottom of the clutch/idler assembly using two 5/16” x 3/4” carriage bolts and 5/16” nylock nuts. Use the front holes in the cable bracket if your tractor has a 42” mower deck. Use the rear holes if your tractor has a 46” mower deck.

FIGURE 35

STEP 36: (SEE FIGURE 36)
- Attach the two rear pulley frame brackets to the inside of the clutch/idler assembly using two 5/16” x 1” hex bolts, eight 5/16” washers and two 5/16” nylock nuts for each bracket.
- Attach the two front pulley frame brackets to the inside of the clutch/idler assembly using two 5/16” x 3/4” hex bolts, 5/16” washers and 5/16” nylock nuts for each bracket. Add extra washers if needed in step 39.
- Insert a tensioning chain through the hole shown and attach the end link to the spring on the lower idler arm.

FIGURE 36

STEP 37: (SEE FIGURE 37)
- Three different length drive belts are included with your snow thrower. Tractors with manual attachment clutches and dual front deck suspension brackets use the 55” drive belt with #46989 printed on the outside of the belt. DO NOT USE the other belts.
- Slightly loosen the hex bolt next to the flat idler pulley. Install the drive belt down between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. Retighten the hex bolt.
- Loop the belt around the large v-pulley, placing it between the v-pulley and the hex bolt next to the pulley.

STOP Did you choose the correct drive belt for your tractor? Using the wrong length belt may cause premature bearing or belt failure.
STEP 38: (SEE FIGURE 38)
- Move the attachment clutch lever on the dash panel to the disengaged (down) position.
- Place the clutch/idler assembly on the floor on the right side of the tractor.
- Attach the tractor’s clutch cable to the cable bracket. Secure the cable housing guide (groove down) to the cable bracket using the original collar and a 5/64" hair cotter pin.
- Place a spacer on the welded pin on the idler arm. Hook the end of the clutch spring over the pin and secure it with a 1/4" washer and a 5/64" hair cotter pin.

STEP 39: (SEE FIGURE 39)
- Remove the engine pulley keeper from the side of the tractor frame by removing the washer and nut that secure the keeper. Attach the new pulley keeper supplied with the snow thrower, reusing the original bolt, washer and nut.

**NOTE:** Some tractors may already be equipped with a pulley keeper that is identical to the new one supplied.
- Attach the clutch/idler assembly to the tractor frame as follows. Hook the assembly’s notched pulley frame brackets onto the two shoulder bolts you assembled to the inside of the tractor frame. Lift the front of the assembly and attach it to the R.H. and L.H. hanger brackets using two pivot lock pins and 1/8" hairpin cotters.

STEP 40: (SEE FIGURE 40)
- Assemble the short "V" belt onto the engine pulley and then onto the large pulley on top of the clutch/idler assembly. The belt must be placed to the inside of the engine pulley keeper, the idler pulley and the keeper bolt located beside the large pulley.

**IMPORTANT:** Do Not assemble the "V" belt around the outside of the engine pulley keeper or the keeper bolt.
- Go to step 48 on page 22.
ELECTRIC ATTACHMENT CLUTCHES

STEP 41: (SEE FIGURE 41)
• Turn the clutch idler assembly upside down.
• Hook the spring (onto the end of the bolt that extends through the nut on the bottom of the upper idler arm. Install a 3/8" hex lock nut onto the bolt, leaving enough space for the spring to pivot.

![Figure 41 Bottom View](image)

STEP 42: (SEE FIGURE 42)
• Insert tensioning chains through the holes shown and attach to the springs on the upper and lower idler arms.
• Attach a 3/32" hairpin cotter to the chain attached to the upper idler arm, placing it in the fifth link from the spring.

![Figure 42](image)

STEP 43: (SEE FIGURE 43)
• Attach the two rear pulley frame brackets to the inside of the clutch/idler assembly using two 5/16" x 1" hex bolts, eight 5/16" washers and two 5/16" nylock nuts for each bracket.
• Attach the two front pulley frame brackets to the inside of the clutch/idler assembly using two 5/16" x 3/4" hex bolts, 5/16" washers and 5/16" nylock nuts for each bracket.

![Figure 43](image)

STEP 44: (SEE TABLE 2)
• Three different length drive belts are included with your snow thrower. Select one of the two belts listed below that is correct for your tractor. The part number is printed on the outside of the belt.
• Set aside the belts that are not for your tractor, to avoid accidentally using them.

<table>
<thead>
<tr>
<th>55&quot; BELT (PART #46989)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACTOR TYPE</td>
</tr>
<tr>
<td>(LT) Lawn Tractor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>56&quot; BELT (PART #48138)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACTOR TYPE</td>
</tr>
<tr>
<td>(LT) Lawn Tractor</td>
</tr>
</tbody>
</table>

**TABLE 2**
STEP 45: (SEE FIGURE 44)
- Turn the clutch/idler assembly right side up.
- Slightly loosen the hex bolt next to the flat idler pulley. Install the drive belt down between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. Retighten the hex bolt.
- Loop the belt around the large v-pulley, placing it between the v-pulley and the hex bolt next to the pulley.

STOP Did you choose the correct drive belt for your tractor? Using the wrong length belt may cause premature bearing or belt failure.

STEP 46: (SEE FIGURE 45)
- Attach the clutch/idler assembly to the tractor frame as follows. Hook the assembly’s notched rear pulley frame brackets onto the two shoulder bolts you assembled to the inside of the tractor frame. Lift the front of the assembly and attach it to the R.H. and L.H. hanger brackets using two pivot lock pins and 1/8" hairpin cotters.

STEP 47: (SEE FIGURE 46)
- Assemble the drive belt onto the engine pulley and then onto the large pulley on top of the clutch/idler assembly. The belt must be placed to the inside of the idler pulley and the keeper bolt located beside the large pulley.
- Place tension on the belt by pulling the left side tensioning chain out as far as the 3/32" hairpin cotter will allow. Secure the chain in this position by inserting a 1/8" hairpin cotter through the chain.

IMPORTANT: Do Not assemble the "V" belt around the outside of the engine pulley keeper or the keeper bolt.
ASSEMBLY OF THE SNOW THROWER

STEP 48: (SEE FIGURE 47)
- Place the lift handle into the lift bracket on the right side of the snow thrower. Fasten the handle to the bracket using two 5/16" x 1-3/4" hex bolts and 5/16" Nylock nuts.

NOTE: Be sure the lift release cable's plastic covering stays inserted into the trigger assembly for the next step.

STEP 49: (SEE FIGURE 48)
- Push the lift handle down into the locked position. Insert the end of the cable wire into the hole in the lift rod. Place the threaded fitting into the slot in the lift bracket, with one hex nut above and one hex nut and the lock washer below the slot. Tighten the nuts, adjusting them to eliminate slack in the cable wire. Refer also to the Service and Adjustments section on page 28 in this manual.

HINT: For easier assembly of the lift release cable, tilt the snow thrower forward onto the spiral auger.

STEP 50: (SEE FIGURE 49)
- Tilt the snow thrower back down to the ground.
- Remove the nylon tie which fastens the auger drive belt to the discharge housing, leaving the belt assembled around the pulleys.
- Remove the nylon tie which fastens the chute crank rod to the crank rod support tube.
- Assemble the crank rod support tube to the bracket on the left side of the discharge housing using two 5/16" x 1-1/4" carriage bolts, and 5/16" Nylock nuts.

STEP 51: (SEE FIGURE 50)
- Attach the chute tilt control assembly to the top side of the crank support tube using two 5/16" x 1-3/4" carriage bolts, bowed washers and 5/16" Nylock nuts.
STEP 52: (SEE FIGURE 51)
- Attach the chute crank rod assembly brackets to the plastic bracket on the left side of the discharge housing. Align the chute crank bracket beneath the rod support bracket and assemble both to the plastic bracket using two 5/16" x 1" carriage bolts, 5/16" washers and 5/16" Nylock nuts. Do not tighten yet.

FIGURE 51 LEFT SIDE VIEW

STEP 53: (SEE FIGURE 52)
- Coat the top of the ring around the discharge opening with general purpose grease.
- Place the discharge chute (facing forward) onto the ring. Place the anti-rotation bracket on top of the chute flange, aligning it with the holes on the right hand side of the flange. Attach the three chute keepers (right side up as shown) to the bottom of the flange using six 1/4" x 1" hex bolts, 1/4" flat washers and 1/4" flanged lock nuts. Tighten carefully so that the nuts are snug but do not dig into the plastic chute keepers.
- Place the plastic cap onto the short end of the anti-rotation bracket.
- Position the crank rod spiral (see figure 51) so that it does not rub against the bottoms of the notches in the chute flange. Tighten the nuts.
- Check if the crank rod rotates the chute freely. If not, loosen by 1/4 turn each of the six hex bolts holding the chute keepers to the chute flange.
- Secure the control cables to the crank rod support tube using a nylon tie.

FIGURE 52 RIGHT SIDE VIEW

STEP 54: (SEE FIGURE 53)
Skip this step if you have a lawn tractor.
This step is for garden tractors only.
- If you have a (GT) Garden Tractor, remove the stop bolts from each side of the snow thrower frame.

FIGURE 53 RIGHT SIDE VIEW
ATTACHING SNOW THROWER TO TRACTOR

55: (SEE FIGURE 54)
- Place the snow thrower on a flat, level surface.
- Extend the auger belt out behind the snow thrower, leaving the belt assembled to the snow thrower pulleys.
- Roll the tractor up behind the snow thrower, centering it between the snow thrower's mounting plates.
- Remove the Attachment Pin from the snow thrower.
- Raise the rear of the snow thrower by lifting up on the lift handle until the notches in the mounting plates align with the shoulder bolts in the tractor's side plates. Guide the bolts into the notches.
- Delay installing the attachment pin until you have assembled the belt as instructed in steps 56 and 57.

FIGURE 54
RIGHT SIDE VIEW

STEP 56: (SEE FIGURE 55)
- The auger belt comes pre-assembled to the pulleys on the snow thrower housing. Make sure the belt passes over the top of the auger pulley and then twists 1/4 turn to pass underneath each side idler pulley. The "V" side of the belt must mate with the grooves of the pulleys.

FIGURE 55

INSTALLING THE AUGER BELT

STEP 57: (SEE FIGURE 56)
- Push the lift handle down to increase slack in the belt (attachment pin must first be removed).
- Swing the idler arm over to the side.
- Place the auger belt around the rear pulley and between the two idler arm pulleys. The "V" side of the belt must be seated in the grooves of the V-pulleys.

BELT ROUTING DIAGRAM
INSTALLING THE ATTACHMENT PIN

STEP 58: (REFER BACK TO FIGURE 54 ON PAGE 24)
- Lift the front of the snow blower to align the holes in the mounting plates and the side plates. From the left side of the tractor insert the attachment pin through the holes. Secure it with by reinstalling the 1/8" hairpin cotter.

SETTING THE AUGER BELT TENSION

STEP 59: (SEE FIGURE 57)
- Pull the tensioning chain until the end of the spring is pulled through the hole in the side of the Clutch/Idler assembly. Install a 1/8" hairpin cotter through the end of the spring, securing it on the outside of the Clutch/Idler assembly.

IMPORTANT: For correct belt tension, the 1/8" hairpin cotter must attach to the end of the spring, not to the chain.

NOTE: To prevent the chain from dragging on the ground, loop the end of the chain though the pivot lock pin. Refer to figure 45 on page 21.

CHECKLIST

Before you operate your snow thrower, please review the following checklist to help ensure that you will obtain the best performance from your snow thrower.
- Make sure all assembly instructions have been completed with all bolts and nuts properly tightened.
- Make sure the correct drive belt was installed.
- Make sure the drive belt and auger belt are routed properly around pulleys and inside all belt keepers.
- Check discharge chute for proper rotation.
- Check operation of tilt control for upper chute.
- Verify that the lift handle will lock into and release from the raised transport position. (Refer to the Service and Adjustments section.)
- Check skid shoe adjustment. (Refer to the Service and Adjustments section.)

The following additional items are available from Sears to help enhance the performance of your snow thrower. See Accessories and Attachments on page 2.
- Tire chains which can be installed to improve traction.
- Rear wheel weights which can be installed in addition to the rear weight tray to improve traction.
- Snow Cab which can be installed to help protect against wind and blowing snow.

ATTACH REFLECTORS TO REAR FENDER

STEP 60: (SEE FIGURE 58)
- If your tractor is not equipped with rear reflectors, assemble the supplied rear reflectors to the rear fender. Place the reflectors as close to the bottom of the fender and as far apart as the shape of the fender will allow.
KNOW YOUR SNOW THROWER

Read this owner's manual and safety rules before operating your snow thrower. Compare the illustration below with your snow thrower to familiarize yourself with the various controls and their locations.

CHUTE TILT HANDLE  Pivots the Upper Chute up or down to control the angle and distance of discharge.
CRANK ROD  Rotates the Lower and Upper Chutes to control the direction of discharge.
LIFT HANDLE  Used to lift or lower the snow thrower to transport or operating position.
LIFT RELEASE TRIGGER  Releases the lock which holds the snow thrower in the transport position.
UPPER AND LOWER DISCHARGE CHUTE  Controls direction and height of snow discharge.
SCRAPER PLATE  Replaceable plate that absorbs wear and impact from contact with ground.
SKID SHOE  Controls amount of clearance between the scraper plate and the ground.
SPIRAL AUGER, R.H. & L.H.  Feed snow to the impeller fan at the center of the housing.

BEFORE STARTING
• Use the end of assembly checklist to verify that all instructions have been properly completed.
• Make sure the skid shoes are adjusted to maintain adequate ground clearance between the snow thrower and the type of surface to be cleared. (Refer to the Service and Adjustments section.)
• Make sure the tractor engine has the correct oil for winter operation (SAE 5W-30). Refer to tractor owner's manual.

HOW TO START YOUR SNOW THROWER
• The tractor should be sitting with the engine running at full throttle. Move the attachment clutch to the engaged position, starting the snow thrower before the tractor clutch is engaged.

HOW TO STOP YOUR SNOW THROWER
• To stop the snow thrower, disengage the tractor’s attachment clutch lever for manual clutches or the clutch switch for electric clutches. Refer to your tractor owner’s manual.

HOW TO USE YOUR SNOW THROWER

CAUTION:  Never direct discharge towards bystanders or windows. Do not allow anyone in front of unit.

CONTROLLING SNOW DISCHARGE
• To control the direction snow is thrown, the discharge chute has 180 degrees of rotation. Turn the crank rod to rotate the chute to the right or the left.
• To control the distance snow is thrown, the upper section of the discharge chute pivots up and down. Push forward on the chute tilt handle to pivot the chute down, decreasing the distance snow is thrown. Pull back on the handle to pivot the chute up, increasing the distance snow is thrown.
RAISING AND LOWERING
• To raise, push down on the lift handle until the snow thrower locks in the raised transport position.
• To lower, push down slightly on the lift handle and pull the trigger. With the trigger pulled, slowly lower the snow thrower until it reaches the ground.

CAUTION: Do not operate the snow thrower without rear wheel weights attached to the tractor to provide extra traction and stability.

REMOVING SNOW
Snow removal conditions vary greatly from light fluffy snowfall to wet heavy snow. Operating instructions must be flexible to fit the conditions encountered. The operator must adapt the lawn tractor and snow thrower to depth of snow, wind direction, temperature and surface conditions.
• Before beginning operation, thoroughly inspect the area of operation and remove all door mats, sleds, boards, wires and other foreign objects.
• The spiral auger speed is directly related to engine speed. For maximum snow removal and discharge, maintain high engine r.p.m. (full throttle). It is advisable to operate the lawn tractor at a slow ground speed (1st gear) for safe and efficient snow removal.
• In deep, drifted or banked snow it will be necessary to use full throttle and a slow ground speed (1st gear). Drive forward into the snow, depress the tractor’s clutch-brake pedal and allow the spiral auger to clear the snow. Repeat this method until a path is cleared. On the second pass, overlap the first enough to allow the snow thrower to handle the snow without repeated stopping and starting of forward motion.

OPERATING TIPS
• Discharge snow down wind whenever possible.
• To help prevent snow from sticking to the snow thrower, allow the snow thrower to reach outdoor temperature before using it. A light coat of wax may also be applied to the inside surface of the snow thrower housing and discharge chute.
• Use tire chains to improve traction.
• Use rear wheel weights to improve traction.
• Before the first snowfall, remove all stones, sticks and other objects which could become hidden by the snow. Permanent obstacles should be marked for visibility.
• Overlap each pass slightly to assure complete snow removal.

CUSTOMER RESPONSIBILITIES
• Read and follow the maintenance schedule and the maintenance procedures listed in this section.

DANGER: Shut off engine and disengage snow thrower before unclogging discharge chute. Unclog using a wooden stick, not your hands.

MAINTENANCE

CHECK SCRAPER AND SHOES FOR WEAR
(Refer to figures 59 and 60 on page 28.)
• The scraper plate and skid shoes on the bottom of the snow thrower are subject to wear. To prevent damage to the spiral auger housing, replace plate and shoes before wear is excessive.

LUBRICATION
• Oil all pivot points on the snow thrower.
• Oil the pivot points of the two idler arms on the clutch/idler assembly.
• Apply penetrating oil to the control cables of the discharge chute.
• Apply a good grade of spray lubricant to the trigger assembly and the chute tilt control assembly.
SERVICE AND ADJUSTMENTS

CAUTION: Before servicing or adjusting the snow thrower, shut off the engine, remove the spark plug wire(s), set the parking brake and remove the key from the tractor ignition.

REPLACING AUGER BELT
- Disengage the tractor's attachment clutch.
- Lower the snow thrower to the ground.
- Remove the attachment pin.
- Lock the snow thrower's lift handle in the down position to decrease belt tension.
- Release the spring tension from the auger belt idler arm on the bottom of the clutch/idler assembly.
- Remove the auger drive belt from the clutch/idler assembly and from the spiral auger housing.
- Install new belt over top of large auger drive pulley and under the two side idler pulleys. Twist the belt 1/4 turn to seat the "V" of the belt in the groove of each idler pulley. Refer to figure 55 on page 24.
- Assemble the belt onto the clutch/idler assembly.

SKID SHOE ADJUSTMENT
- The skid shoes are mounted on each side of the spiral auger housing. They regulate the distance the scraper plate is raised above the plowing surface. When removing snow from a gravel driveway or an uneven surface, it is advisable to keep the scraper plate as high above the surface as possible to prevent possible damage to the spiral auger. On blacktop or concrete surface, keep the scraper plate as close to the surface as possible.
- Raise the snow thrower off the ground and place a block under each end of the scraper plate. Loosen the six hex nuts securing the skid shoes to the housing. Adjust the skid shoes up or down and retighten the nuts securely. Adjust both skid shoes to the same height to keep the housing and the scraper plate level. See figure 59.

LIFT RELEASE CABLE ADJUSTMENT
- If the lift rod does not lock the snow thrower securely in the transport position, loosen the upper hex nut on the lift bracket a few turns and tighten the lower hex nut. Refer to figure 48 on page 22.
- If the lift rod fails to unlock completely to lower the snow thrower, loosen the lower hex nut on the lift bracket a few turns and tighten the upper hex nut. Refer to figure 48 on page 22.

CLUTCH DISENGAGEMENT ADJUSTMENT
(For tractors with engagement rod clutches only. Not for electric clutches or cable clutches)
If the spiral auger on the snow thrower does not stop when the attachment clutch lever on the tractor is disengaged, then adjustment is necessary. Proceed as follows. Refer back to figure 33 on page 17.
- Place the attachment clutch lever in the disengaged position.
- Remove the hairpin cotter from the engagement rod trunnion and lift the trunnion out of the hole in the idler arm.
- Screw the trunnion a few turns towards the front end of the rod.
- Replace the trunnion into the hole in the idler arm and secure it with the hairpin cotter. Check the operation of the snow thrower. If the spiral augers still do not stop, repeat the above steps until the augers stop when the attachment clutch lever is placed in the disengaged position.

SPIRAL AUGERS
- The spiral augers are secured to the auger shaft with two shear bolts and nylock nuts. If you hit a foreign object or if ice jams the augers, the snow thrower is designed so that the bolts will shear.
- If the augers will not turn, check to see if the shear bolts have sheared. See figure 60. Two replacement shear bolts and nylock nuts have been provided with the snow thrower. For future use order part number 710-0890A shear bolt and number 47810 nylock nut.

FIGURE 59

FIGURE 60
STORAGE RECOMMENDATIONS

- Lower the snow thrower to the ground.
- Remove the snow thrower from the tractor.
- Clean the snow thrower thoroughly. Wash off any salt deposit which may have dried on the thrower and housing.
- Any bare metal that has become exposed should be painted or coated with a light oil to prevent rust.
- Store in a dry place.

REMOVING THE SPIRAL AUGER HOUSING

- Lower the snow thrower to the ground.
- Remove the attachment pin. See figure 54 on page 24.
- Lock the snow thrower's lift handle in the down position to decrease belt tension.
- Release the spring tension from the auger belt idler arm on the bottom of the clutch/idler assembly.
- Remove the auger drive belt from the clutch/idler assembly. See figure 56 on page 24.
- Pull the spiral auger housing assembly off of the tractor.

PARTS TO REMOVE AT END OF SEASON

- Remove the clutch/idler assembly. (The two hanger brackets and the two shoulder bolts may be left attached to the tractor frame.)
- Remove the drive belt from the engine pulley.
- If you replaced the engine pulley keeper on a manual attachment clutch tractor, reinstall the tractor's original engine pulley keeper. See figure 33 on page 17 or figure 39 on page 19.
- If you have a rod operated attachment clutch, remove the engagement rod from the tractor's clutch arm. See figure 29 on page 16.
- If a front mounted attachment is to be used, remove the side plates from the tractor. Be sure to assemble bolts back into the empty holes in the tractor frame.

TROUBLESHOOTING

<table>
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<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spiral augers don't turn</td>
<td>1. Upper or lower V belt too loose</td>
<td>1. Increase tension on V belt</td>
</tr>
<tr>
<td></td>
<td>2. Upper or lower V belt broken</td>
<td>2. Replace V belt</td>
</tr>
<tr>
<td></td>
<td>3. Shear bolts are sheared.</td>
<td>3. Replace shear bolts</td>
</tr>
<tr>
<td>Clogged discharge chute</td>
<td>1. Tractor ground speed too fast</td>
<td>1. Use lower tractor gear</td>
</tr>
<tr>
<td></td>
<td>2. Tractor throttle set too low</td>
<td>2. Increase to full throttle</td>
</tr>
<tr>
<td></td>
<td>3. Snow too deep</td>
<td>3. Raise the snow thrower</td>
</tr>
<tr>
<td></td>
<td>4. Snow melts during contact with the snow thrower</td>
<td>4. Allow snow thrower to cool to outdoor temperature before using</td>
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<tr>
<td>Snow thrower stalls tractor engine</td>
<td>1. Object jammed in spiral auger</td>
<td>1. Stop engine, disengage the snow thrower clutch and clear the auger</td>
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<tr>
<td></td>
<td>2. Hard or heavy snow</td>
<td>2. Increase to full throttle and decrease ground speed</td>
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<tr>
<td>Front wheels slide instead of steering</td>
<td>Not enough traction at front wheels</td>
<td>1. Increase scraper plate clearance by lowering skid shoes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Pull down on lift handle to increase weight on front wheels</td>
</tr>
<tr>
<td>Snow thrower rides up over snow</td>
<td>1. Tractor ground speed too fast</td>
<td>1. Reduce ground speed</td>
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<tr>
<td></td>
<td>2. Bottom snow is icy or hard packed</td>
<td>2. Lower the skid shoes so that front of skid shoe is lower than the rear</td>
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</tbody>
</table>
REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Husqvarna Tractors And Craftsman Series 917 Tractors)
# Repair Parts for Model 486.248371 42" Snow Thrower

(For Husqvarna Tractors and Craftsman Series 917 Tractors)

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<td>27280</td>
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<td>Bracket, Idler</td>
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<td>Impeller Assembly</td>
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## REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Husqvarna Tractors And Craftsman Series 917 Tractors)

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33
REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Husqvarna Tractors And Craftsman Series 917 Tractors)

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3. Sight across the fold in the direction of hill slope you want to measure.
4. Compare the angle of the fold with the slope of the hill.

WARNING: To avoid serious injury, operate your tractor up and down the face of slopes, never across the face. Do not operate tractor attachments on slopes greater than 10 degrees. Make turns gradually to avoid tipping or loss of control. Exercise extreme caution when changing direction on slopes. Exercise extreme caution when changing direction on slopes. Braking may be affected by tractor attachment. Reduce speed on slopes.

1. Fold this page along dotted line indicated above.
2. Hold page before you so that its left edge is vertically parallel to a tree or other upright structure.
3. Sight across the fold in the direction of hill slope you want to measure.

SUUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION OF TRACTOR WITH ATTACHMENT
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© Sears Brands, LLC
42"- 2 STAGE SNOW THROWER
TRACTOR ATTACHMENT
Model No. 486.248371

FOR TRACTORS WITH MODEL NUMBERS BEGINNING WITH 247.

CAUTION:
Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

- Safety
- Assembly
- Operation
- Maintenance
- Parts

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.
www.sears.com/craftsman

PRINTED IN U.S.A.

FORM NO. 42317 (06/15/11)
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WARRANTY

ONE YEAR FULL WARRANTY
When operated and maintained according to the instructions supplied with it, if this Snowthrower fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME® to arrange for free repair (or replacement if repair proves impossible).

If this product is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., D817WA, Hoffman Estates, IL 60179

ACCESSORIES AND ATTACHMENTS

These and other accessories are recommended for use with your unit. Call 1-800-4-MY-HOME® to find out if they are available. If available, they may be purchased at most Craftsman outlets or by calling 1-800-4-MY-HOME®.

WHEEL WEIGHT  TIRE CHAINS  SNOW CAB

The model number and serial numbers will be found on a decal attached to the snow thrower.
You should record both the serial number and the date of purchase and keep in a safe place for future reference.

MODEL NUMBER: 486.248371
SERIAL NUMBER: __________________
DATE OF PURCHASE: __________________
Read and understand the operating instructions before using.

Keep the area of operation clear of all persons, especially small children and pets. Thoroughly inspect the area to be cleared and remove all door mats, sleds, boards, wires and other foreign objects. Use extreme caution when operating on or crossing gravel surfaces. Never direct discharge at bystanders or allow anyone in front of the snow thrower.

Do not place hands near rotating parts. Keep clear of the discharge opening at all times.

- Never allow children to operate the equipment.
- Never allow adults to operate the equipment without proper instruction.
- Disengage all clutches and shift into neutral before starting engine.
- Do not operate equipment without wearing adequate winter outer garments.
- Wear substantial footwear which will protect feet and improve footing on slippery surfaces.
- Check fuel before starting the engine. Do not remove the fuel cap or fill the fuel tank while the engine is running or hot. Do not fill the fuel tank indoors. Gasoline is an extremely flammable fuel.
- Make sure the snow thrower height is adjusted to clear the type surface it will be used on.
- Do not use the snow thrower without wheel weights attached to the tractor.
- Never make any adjustments while the engine is running.
- Always wear safety glasses or eye shield during operation or while performing adjustment or repair.
- Do not place hands or feet near rotating parts. Keep clear of the discharge opening at all times.
- Do not carry passengers.
- After striking a foreign object, stop the engine, remove the wire from the spark plug and then thoroughly inspect the snow thrower for damage. Repair any damage before restarting and operating the snow thrower.
- If the snow thrower starts to vibrate abnormally, stop the engine immediately and check for the cause. Vibration is generally a warning of trouble.
- Stop the engine whenever you leave the operating position, before unblocking the snow thrower or making any adjustments or inspections.
- Take all possible precautions when leaving the unit unattended. Disengage the attachment clutch lever or switch, lower the snow thrower, shift into neutral, set the parking brake, stop the engine and remove the key.
- When cleaning, repairing or inspecting, make certain all moving parts have stopped. Disconnect the spark plug wire and keep it away from the plug to prevent accidental starting.
- Do not run engine indoors except when transporting the snow thrower in or out of the building. Open the outside doors. Exhaust fumes are dangerous.
- Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes. Refer to the slope guide on page 35 of this manual.
- Never operate the snow thrower without guards, plates or other safety protection devices in place.
- Never operate the snow thrower near glass enclosures, automobiles, window wells, drop offs etc. without proper adjustment of the snow thrower discharge angle.
- Never run the snow thrower into snow at high speeds.
- Do not overload the snow thrower capacity by attempting to clear snow at too fast a rate.
- Never operate the snow thrower at high transport speed on slippery surfaces. Look behind and use care when backing up.
- Watch for traffic and stay alert when crossing or operating near roadways.
- Disengage power to the snow thrower when transporting or when not in use.
- Use only attachments and accessories approved by the manufacturer of the snow thrower (such as wheel weights, counter weights, cabs etc.)
- Never operate the snow thrower without good visibility.
**IMPORTANT:** Not all items supplied in the hardware bag will be needed for your particular tractor. Unneeded items may be discarded after you have completed assembly and checked operation of unit. **DO NOT DISCARD** the two spare shear bolts (K) and 5/16" nylock nuts (HH). Refer to the Service and Adjustments section on page 18.

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<td>Washer, 1/2&quot; x 1-1/2&quot;</td>
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</table>
1. Housing Assembly
2. Lift Handle and Cable
3. Chute Crank Rod Assembly
4. Support Tube, Crank Rod
5. V-Belt, Drive 52” (#41353)
6. V-Belt, Drive 55” (#46989)
7. Chute and Control Cable Assembly
8. Clutch Idler Assembly
9. Anti-rotation Bracket
10. V-Belt, Auger (Attached to Housing Assembly)
11. Frame Brace
12. Hanger Bracket Assembly R.H.
13. Hanger Bracket Assembly L.H.
14. Rear Frame Bracket L.H.
15. Rear Frame Bracket R.H.
16. Front Frame Bracket L.H.
17. Front Frame Bracket R.H.
18. Support Link (2)
19. Support Tube (2)
20. Side Plate L.H.
21. Side Plate R.H.

ONLY ITEMS NEEDED FOR MODEL 247.____ TRACTORS ARE SHOWN
LOCATE TRACTOR’S MODEL LABEL
Look under your tractor seat to locate the model number label shown below. This manual is for tractors with model numbers that start with 247 as shown below.

247 MODEL TRACTORS

CAUTION: Before starting to assemble the snow thrower, remove the spark plug wire(s), set the parking brake and remove the key from the tractor ignition.

IMPORTANT: If your model number starts with 917, use the owner's manual and the parts that are contained in the other parts bag.

TOOLS REQUIRED FOR ASSEMBLY
(2) 7/16" Wrenches
(2) 1/2" Wrenches
(2) 9/16" Wrenches
(2) 3/4" Wrenches
(1) Knife

ADDITIONAL ITEMS REQUIRED
General Purpose Grease

TRACTOR PREPARATION

Before performing these instructions, refer to the Service and Adjustments section of your tractor owner's manual for specific safety instructions.

- Allow engine, muffler and exhaust deflector to cool before beginning.
- Remove any front or rear attachment which is mounted to your tractor.
- Remove the mower deck. Refer to your tractor owner's manual for removal instructions. Mark all loose parts and save for reassembly.
- Remove the tractor hood. Refer to your tractor owner's manual for removal instructions.

IMPORTANT: Right hand (R.H.) and left hand (L.H.) side of the tractor are determined from the operators position while seated on the tractor.

REMOVAL OF PARTS FROM CARTON

- Remove all loose parts, parts bags and hardware bags from the carton. Lay out and identify parts and hardware using the illustrations on pages 4, 5 and 6. The parts bag labeled for 917 model tractors will not be needed.

IMPORTANT: Not all items supplied in the hardware bag will be needed for your particular tractor. Unneeded items may be discarded after you have completed assembly and checked operation of unit. **DO NOT DISCARD** the two spare shear bolts (K) and 5/16" nylock nuts (HH). Refer to the Service and Adjustments section on page 18.
**STEP 1: (SEE FIGURE 1)**
- Assemble a shoulder bolt and a 3/8” nylock nut to the holes shown on each side of the tractor frame.

**STEP 2: (SEE FIGURE 2)**
- Place a front mount plate onto each shoulder bolt and install two quick release pins as shown.

**STEP 3: (SEE FIGURE 3)**
- Attach the frame brace between the front mount plates using two 1/2” x 1-1/4” hex bolts, 1/2” x 1-1/2” washers and 1/2” nylock nuts.

**STEP 4: (SEE FIGURE 4)**
- Measure from the center of the three holes indicated in figure 4 to select the hole that is approximately 10” above the ground in both front mount plates.
- Install a shoulder bolt and 3/8” nylock nut in the selected hole in each front mount plate.

**FIGURE 1**
- Shoulder Bolt
- 3/8” NYLOCK NUT

**FIGURE 2**
- Quick Release Pin
- Front Mount Plate
- Shoulder Bolt
- Shoulder Bolt
- 3/8” NYLOCK NUT

**FIGURE 3**
- 1/2” x 1-1/4” HEX BOLT
- 1/2” x 1-1/2” WASHER
- 1/2” NYLOCK NUT

**FIGURE 4**
- Shoulder Bolt
- 3/8” NYLOCK NUT
- Use hole that measures 10” above ground
**STEP 5: (SEE FIGURE 5)**
- Remove the thread forming bolt from the hole in the footrest bracket on the left side of the tractor frame.
- Attach the L.H. hanger bracket to the empty hole using a 5/16" x 1" hex bolt, a 5/16" lock washer, and a 5/16" flat washer. Place the flat washer between the hanger bracket and the footrest bracket.
- Repeat on the right side of the tractor frame using the R.H. hanger bracket.

![FIGURE 5](image)

**STEP 6: (SEE FIGURE 6)**
- Turn the clutch idler assembly upside down.
- Attach the spring from the parts bag to the bottom of the upper idler arm. Hook the spring onto the bolt that extends through the nut on the bottom of the upper idler arm and then install a 3/8" hex lock nut onto the bolt. Leave enough space for the spring to pivot.

![FIGURE 6](image)

**STEP 7 (SEE FIGURE 7)**
- Insert tensioning chains through the holes shown and attach to the springs on the upper and lower idler arms.
- Attach a 3/32" hairpin cotter to the chain attached to the upper idler arm, placing it in the third link from the spring.

![FIGURE 7](image)

**STEP 8 (SEE FIGURE 8)**
- Refer back to step 4. If you used the top hole indicated in step 4, use hole A in this step. If you used one of the two lower holes, use hole B in this step.
- Attach the R.H. and L.H. rear frame brackets on the inside to either hole A or B using one 5/16" x 3/4" hex bolt and 5/16" nylock nut for each bracket. Do not tighten yet.
- Assemble the R.H. and L.H. front frame brackets on the outside using two 5/16" x 3/4" hex bolts and 5/16" nylock nuts for each bracket.

![FIGURE 8](image)
STEP 9: (SEE FIGURE 9)
- Assemble the two support tubes to the inside of each front frame bracket using a 1/2” x 1-1/2” hex bolt, a 1/2” spacer and a 1/2” nylock nut for each bracket. Do not tighten yet.

![Figure 9](image)

STEP 10: (SEE FIGURE 10)
- Three drive belts are supplied with the snow thrower. Select one of the two shorter belts. If you used hole A in step 8, use the 52” drive belt (#41353) belt. If you used hole B, use the 55” drive belt (#46989).
- Slightly loosen the hex bolt next to the flat idler pulley. Install the drive belt between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. Retighten the hex bolt.
- Loop the belt around the large v-pulley, placing it between the pulley and the hex bolt next to the pulley.

![Figure 10](image)

STEP 11 (SEE FIGURE 11)
- Assemble two 1/2” jam nuts all the way onto the threads of each support link.

![Figure 11](image)

STEP 12: (SEE FIGURE 12)
- Attach the front frame brackets to the two hanger brackets on the tractor frame using two pivot lock pins and 1/8” hairpin cotters.
- Attach the rear frame brackets to the bottom of the tractor frame using two small 5/64” hairpin cotters.

![Figure 12](image)
STEP 10: (SEE FIGURE 10)
- Slightly loosen the hex bolt next to the flat idler pulley.
- Install one of the drive belts down between the hex bolt and the flat idler pulley with the flat side of the belt against the pulley. If you used hole A in step 8, use shortest 50" drive belt (#41353). If you used hole B in step 8, use the middle length 55" drive belt (#46989). Retighten the hex bolt.
- Loop the belt around the large V-pulley, placing it between the V-pulley and the hex bolt next to the pulley.

STEP 13 (SEE FIGURE 13)
- Assemble a 1/2" x 1" washer onto the bent end of a support link and then insert the threaded end into a support tube and the bent end into the rear hole in a front mounting plate. Assemble another 1/2" x 1" washer onto the end of the link and secure it with a small 5/64" hairpin cotter. Repeat for the other support link.
- Tighten the bolt and nut in each rear frame bracket.
- Tighten the bolt and nut in each support link.
- Tighten the jam nuts so that all looseness is eliminated from the support links and support tubes.

STEP 14: (SEE FIGURE 14)
- Remove the belt guard for the PTO pulley on the tractor. Refer to "Cutting Deck Removal" in the SERVICE AND MAINTENANCE section of your tractor Operator's Manual.
- Install the drive belt onto the tractor's PTO pulley. You may need to temporarily lift the belt from the large pulley on the clutch idler assembly.
- Reinstall the belt guard for the tractor's PTO pulley. Be sure the belt guard is installed in the notch on the side of the tractor's electric clutch.
- Place tension on the belt by pulling the left side tensioning chain out as far as the 3/32" hairpin cotter will allow. Secure the chain in this position by inserting a 1/8" hairpin cotter through the chain.

DO NOT start the engine until the PTO pulley belt guard has been reinstalled. The tractor's electric clutch could be damaged.
ASSEMBLY OF THE SNOW THROWER

STEP 15: (SEE FIGURE 15)
- Place the lift handle into the lift bracket on the right side of the snow thrower. Fasten the handle to the bracket using two 5/16” x 1-3/4” hex bolts and 5/16” Nylock nuts.

![Figure 15](image)

NOTE: Be sure the lift release cable's plastic covering stays inserted into the trigger assembly for the next step.

STEP 16 (SEE FIGURE 16)
- Push the lift handle down into the locked position. Insert the end of the cable wire into the hole in the lift rod. Place the threaded fitting into the slot in the lift bracket, with one hex nut above and one hex nut and the lock washer below the slot. Tighten the nuts, adjusting them to eliminate slack in the cable wire. Refer also to the Service and Adjustments section on page 18 in this manual.

HINT: For easier assembly of the lift release cable, tilt the snow thrower forward onto the spiral auger.

![Figure 16](image)

STEP 17: (SEE FIGURE 17)
- Tilt the snow thrower back down to the ground.
- Remove the nylon tie which fastens the auger drive belt to the discharge housing, leaving the belt assembled around the pulleys.
- Remove the nylon tie which fastens the chute crank rod to the crank rod support tube.
- Assemble the crank rod support tube to the bracket on the left side of the discharge housing using two 5/16” x 1-1/4” carriage bolts, and 5/16” Nylock nuts.

![Figure 17](image)

STEP 18: (SEE FIGURE 18)
- Attach the chute tilt control assembly to the top side of the crank support tube using two 5/16” x 1-3/4” carriage bolts, bowed washers and 5/16” Nylock nuts.

![Figure 18](image)
**STEP 19: (SEE FIGURE 19)**
- Attach the chute crank rod assembly brackets to the plastic bracket on the left side of the discharge housing. Align the chute crank bracket beneath the rod support bracket and assemble both to the plastic bracket using two 5/16" x 1" carriage bolts, 5/16" washers and 5/16" Nylock nuts. **Do not tighten yet.**

![FIGURE 19 LEFT SIDE VIEW](image1)

**STEP 20: (SEE FIGURE 20)**
- Coat the top of the ring around the discharge opening with general purpose grease.
- Place the discharge chute (facing forward) onto the ring. Place the anti-rotation bracket on top of the chute flange, aligning it with the holes on the right hand side of the flange. Attach the three chute keepers (right side up as shown) to the bottom of the flange using six 1/4" x 1" hex bolts, 1/4" flat washers and 1/4" flanged lock nuts. **Tighten carefully** so that the nuts are snug but do not dig into the plastic chute keepers.
- Place the plastic cap onto the short end of the anti-rotation bracket.
- Position the crank rod spiral (see figure 19) so that it does not rub against the bottoms of the notches in the chute flange. **Tighten** the nuts.
- Check if the crank rod rotates the chute freely. If not, loosen by 1/4 turn each of the six hex bolts holding the chute keepers to the chute flange.
- Secure the control cables to the crank rod support tube using a nylon tie.

![FIGURE 20 RIGHT SIDE VIEW](image2)

**STEP 21: (SEE FIGURE 21)**
- If the snow thrower will not lower approximately 1" below grade after it is attached to the tractor, remove the stop bolts from each side of the snow thrower frame.

![FIGURE 21 RIGHT SIDE VIEW](image3)
ATTACHING SNOW THROWER TO TRACTOR

STEP 22: (SEE FIGURE 22)
• Place the snow thrower on a flat, level surface.
• Extend the auger belt out behind the snow thrower, leaving the belt assembled to the snow thrower pulleys.
• Roll the tractor up behind the snow thrower, centering it between the snow thrower’s mounting plates.
• Remove the Attachment Pin from the snow thrower.
• Raise the rear of the snow thrower by lifting up on the lift handle until the notches in the mounting plates align with the shoulder bolts in the tractor’s side plates. Guide the bolts into the notches.
• Delay installing the attachment pin until you have assembled the belt as instructed in steps 23 and 24.

STEP 23: (SEE FIGURE 23)
• The auger belt comes pre-assembled to the pulleys on the snow thrower housing. Make sure the belt passes over the top of the auger pulley and then twists 1/4 turn to pass underneath each side idler pulley. The “V” side of the belt must mate with the grooves of the pulleys.

INSTALLING THE AUGER BELT
STEP 24: (SEE FIGURE 24)
• Push the lift handle down to increase slack in the belt (attachment pin must first be removed).
• Swing the idler arm over to the side.
• Place the auger belt around the rear pulley and between the two idler arm pulleys. The “V” side of the belt must be seated in the grooves of the V-pulleys.
INSTALLING THE ATTACHMENT PIN

STEP 25: (REFER BACK TO FIGURE 22 ON PAGE 14)
• Lift the front of the snow blower to align the holes in the mounting plates and the side plates. From the left side of the tractor insert the attachment pin through the holes. Secure it with by reinstalling the 1/8" hairpin cotter.

SETTING THE AUGER BELT TENSION

STEP 26: (SEE FIGURE 25)
• Pull the tensioning chain until the end of the spring is pulled through the hole in the side of the Clutch/Idler assembly. Install a 1/8" hairpin cotter through the end of the spring, securing it on the outside of the Clutch/Idler assembly.

IMPORTANT: For correct belt tension, the 1/8" hairpin cotter must attach to the end of the spring, not to the chain.

NOTE: To prevent the chain from dragging on the ground, loop the end of the chain through the pivot lock pin.

CHECKLIST

Before you operate your snow thrower, please review the following checklist to help ensure that you will obtain the best performance from your snow thrower.
• Make sure all assembly instructions have been completed with all bolts and nuts properly tightened.
• Make sure the correct drive belt was installed.
• Make sure the drive belt and auger belt are routed properly around pulleys and inside all belt keepers.
• Check discharge chute for proper rotation.
• Check operation of tilt control for upper chute.
• Verify that the lift handle will lock into and release from the raised transport position. (Refer to the Service and Adjustments section.)
• Check skid shoe adjustment. (Refer to the Service and Adjustments section.)

The following additional items are available from Sears to help enhance the performance of your snow thrower. See Accessories and Attachments on page 2.
• Tire chains which can be installed to improve traction.
• Rear wheel weights which can be installed in addition to the rear weight tray to improve traction.
• Snow Cab which can be installed to help protect against wind and blowing snow.
KNOW YOUR SNOW THROWER

Read this owner's manual and safety rules before operating your snow thrower.
Compare the illustration below with your snow thrower to familiarize yourself with the various controls and their locations.

**CHUTE TILT HANDLE**  Pivots the Upper Chute up or down to control the angle and distance of discharge.

**CRANK ROD**  Rotates the Lower and Upper Chutes to control the direction of discharge.

**LIFT HANDLE**  Used to lift or lower the snow thrower to transport or operating position.

**LIFT RELEASE TRIGGER**  Releases the lock which holds the snow thrower in the transport position.

**UPPER AND LOWER DISCHARGE CHUTE**  Controls direction and height of snow discharge.

**SCRAPER PLATE**  Replaceable plate that absorbs wear and impact from contact with ground.

**SKID SHOE**  Controls amount of clearance between the scraper plate and the ground.

**SPIRAL AUGER, R.H. & L.H.**  Feed snow to the impeller fan at the center of the housing.

**BEFORE STARTING**

- Use the end of assembly checklist to verify that all instructions have been properly completed.
- Make sure the skid shoes are adjusted to maintain adequate ground clearance between the snow thrower and the type of surface to be cleared. (Refer to the Service and Adjustments section.)
- Make sure the tractor engine has the correct oil for winter operation (SAE 5W-30). Refer to tractor owner's manual.

**HOW TO START YOUR SNOW THROWER**

- The tractor should be sitting with the engine running at full throttle. Move the attachment clutch to the engaged position, starting the snow thrower before the tractor clutch is engaged.

**HOW TO STOP YOUR SNOW THROWER**

- To stop the snow thrower, disengage the tractor's attachment clutch lever for manual clutches or the clutch switch for electric clutches. Refer to your tractor owner's manual.

**CAUTION:**  Never direct discharge towards bystanders or windows. Do not allow anyone in front of unit.

**CONTROLLING SNOW DISCHARGE**

- To control the direction snow is thrown, the discharge chute has 180 degrees of rotation. Turn the crank rod clockwise to rotate the chute to the right. Turn the crank rod counterclockwise to rotate the chute to the left.
- To control the distance snow is thrown, the upper section of the discharge chute pivots up and down. Push forward on the chute tilt handle to pivot the chute down, decreasing the distance snow is thrown. Pull back on the handle to pivot the chute up, increasing the distance snow is thrown.
RAISING AND LOWERING

- To raise, push down on the lift handle until the snow thrower locks in the raised transport position.
- To lower, push down slightly on the lift handle and pull the trigger. With the trigger pulled, slowly lower the snow thrower until it reaches the ground.

CAUTION: Do not operate the snow thrower without wheel weights attached to the tractor to provide extra traction and stability.

REMOVING SNOW

Snow removal conditions vary greatly from light fluffy snowfall to wet heavy snow. Operating instructions must be flexible to fit the conditions encountered. The operator must adapt the lawn tractor and snow thrower to depth of snow, wind direction, temperature and surface conditions.

- Before beginning operation, thoroughly inspect the area of operation and remove all door mats, sleds, boards, wires and other foreign objects.
- The spiral auger speed is directly related to engine speed. For maximum snow removal and discharge, maintain high engine r.p.m. (full throttle). It is advisable to operate the lawn tractor at a slow ground speed (1st gear) for safe and efficient snow removal.
- In deep, drifted or banked snow it will be necessary to use full throttle and a slow ground speed (1st gear). Drive forward into the snow, depress the tractor’s clutch-brake pedal and allow the spiral auger to clear the snow. Repeat this method until a path is cleared. On the second pass, overlap the first enough to allow the snow thrower to handle the snow without repeated stopping and starting of forward motion.
- In extremely deep snow, raise the snow thrower from the ground to remove the top layer and drive forward only until the tractor’s front tires reach the uncleared bottom layer of snow. Depress the tractor’s clutch-brake pedal and allow the spiral auger to clear the snow. Reverse the tractor and lower the snow thrower to the ground. Drive the tractor forward until the snow again becomes too deep. Repeating this process into and out of drifts will eventually clear even the deepest of snow piles.
- If the snow thrower becomes clogged with snow or jammed with a foreign object, disengage the snow thrower immediately and shut off the tractor engine. Unclog the snow thrower before resuming operation.

CAUTION: Shut off engine and disengage snow thrower before unblocking discharge chute. Unclog using a wooden stick, not your hands.

OPERATING TIPS

- Discharge snow down wind whenever possible.
- To help prevent snow from sticking to the snow thrower, allow the snow thrower to reach outdoor temperature before using it. A light coat of wax may also be applied to the inside surface of the snow thrower housing and discharge chute.
- Use tire chains to improve traction.
- Use rear wheel weights to improve traction.
- Before the first snowfall, remove all stones, sticks and other objects which could become hidden by the snow. Permanent obstacles should be marked for visibility.
- Overlap each pass slightly to assure complete snow removal.

CUSTOMER RESPONSIBILITIES

- Read and follow the maintenance schedule and the maintenance procedures listed in this section.

MAINTENANCE SCHEDULE

<table>
<thead>
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<th>Maintenance Item</th>
<th>Before Each Use</th>
<th>Every Season</th>
<th>Before Storage</th>
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<tr>
<td>Check for loose fasteners</td>
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<td></td>
</tr>
<tr>
<td>Check scraper and shoes for wear</td>
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<td>X</td>
<td></td>
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<tr>
<td>Cleaning</td>
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<td></td>
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</tr>
<tr>
<td>Lubrication Section</td>
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<td></td>
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</table>

LUBRICATION

- Oil all pivot points on the snow thrower.
- Oil the pivot points of the two idler arms on the clutch/idler assembly.
- Apply penetrating oil to the control cables of the discharge chute.
- Apply a good grade of spray lubricant to the trigger assembly and the chute tilt control assembly.

CHECK SCRAPER AND SHOES FOR WEAR

(Refer to figures 27 and 28 on page 18.)

- The scraper plate and skid shoes on the bottom of the snow thrower are subject to wear. To prevent damage to the spiral auger housing, replace plate and shoes before wear is excessive.
SERVICE AND ADJUSTMENTS

CAUTION: Before servicing or adjusting the snow thrower, shut off the engine, remove the spark plug wire(s), set the parking brake and remove the key from the tractor ignition.

REPLACING AUGER BELT
• Disengage the tractor’s attachment clutch.
• Lower the snow thrower to the ground.
• Remove the attachment pin.
• Lock the snow thrower’s lift handle in the down position to decrease belt tension.
• Release the spring tension from the auger belt idler arm on the bottom of the clutch/idler assembly.
• Remove the auger drive belt from the clutch/idler assembly and from the spiral auger housing.
• Install new belt over top of large auger drive pulley and under the two side idler pulleys. Twist the belt 1/4 turn to seat the “V” of the belt in the groove of each idler pulley. Refer to figure 23 on page 14.
• Assemble the belt onto the clutch/idler assembly.

SKID SHOE ADJUSTMENT
• The skid shoes are mounted on each side of the spiral auger housing. They regulate the distance the scraper plate is raised above the plowing surface. When removing snow from a gravel driveway or and uneven surface, it is advisable to keep the scraper plate as high above the surface as possible to prevent possible damage to the spiral auger. On blacktop or concrete surface, keep the scraper plate as close to the surface as possible.
• Raise the snow thrower off the ground and place a block under each end of the scraper plate. Loosen the six hex nuts securing the skid shoes to the housing. Adjust the skid shoes up or down and retighten the nuts securely. Adjust both skid shoes to the same height to keep the housing and the scraper plate level. See figure 27.

LIFT RELEASE CABLE ADJUSTMENT
• If the lift rod does not lock the snow thrower securely in the transport position, loosen the upper hex nut on the lift bracket a few turns and tighten the lower hex nut. Refer to figure 16 on page 12.
• If the lift rod fails to unlock completely to lower the snow thrower, loosen the lower hex nut on the lift bracket a few turns and tighten the upper hex nut. Refer to figure 16 on page 12.

SPIRAL AUGERS
• The spiral augers are secured to the auger shaft with two shear bolts and nylock nuts. If you hit a foreign object or if ice jams the augers, the snow thrower is designed so that the bolts will shear.
• If the augers will not turn, check to see if the shear bolts have sheared. See figure 28. Two replacement shear bolts and nylock nuts have been provided with the snow thrower. For future use order part number 710-0890A shear bolt and number 47810 nylock nut.

FIGURE 27

FIGURE 28
**STORAGE RECOMMENDATIONS**
- Lower the snow thrower to the ground.
- Remove the snow thrower from the tractor.
- Clean the snow thrower thoroughly. Wash off any salt deposit which may have dried on the thrower and housing.
- Any bare metal that has become exposed should be painted or coated with a light oil to prevent rust.
- Store in a dry place.

**STORAGE**

**REMOVING THE SPIRAL AUGER HOUSING**
- Lower the snow thrower to the ground.
- Remove the attachment pin. See figure 22 on page 14.
- Lock the snow thrower's lift handle in the down position to decrease belt tension.
- Release the spring tension from the auger belt idler arm on the bottom of the clutch/idler assembly.
- Remove the auger drive belt from the clutch/idler assembly. See figure 24 on page 14.
- Pull the spiral auger housing assembly off of the tractor.

**SNOW THROWER PARTS TO REMOVE AT END OF SEASON**
- Remove the belt guard from the tractor's PTO pulley by removing the two hex screws. (Refer to the Cutting Deck Removal instructions under SERVICE AND MAINTENANCE in your tractor operator's manual.)

**IMPORTANT:** Be sure to replace the belt guard before starting the engine to avoid damage to the electric clutch.

- Remove the belt from the PTO pulley.
- Reinstall the belt guard for the PTO pulley. Be sure the belt guard is installed in the notch on the side of the tractor's electric clutch.
- Loosen the two jam nuts on each support link.
- Loosen the 1/2” bolt and nut which fasten each support tube to the pulley frame.
- Remove the end of each support link from the front mounting plate and then slide the support links from the support tubes.
- Remove the hair cotter pins from the rear mounting brackets.
- Remove the hair cotter pins and pivot lock pins from the front mounting brackets and then remove the clutch/idler assembly from the tractor.
- If you are going to mount a bumper or other front end attachment to your tractor, remove the front mounting plates and frame brace by removing the quick release pins and pulling the mounting plates and frame brace off of the shoulder bolts.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CORRECTION</th>
</tr>
</thead>
</table>
| Spiral augers don't turn        | 1. Upper or lower V belt too loose  
2. Upper or lower V belt broken  
3. Shear bolts are sheared.      | 1. Increase tension on V belt  
2. Replace V belt  
3. Replace shear bolts |
| Clogged discharge chute         | 1. Tractor ground speed too fast  
2. Tractor throttle set too low  
3. Snow too deep  
4. Snow melts during contact with the snow thrower | 1. Use lower tractor gear  
2. Increase to full throttle  
3. Raise the snow thrower  
4. Allow snow thrower to cool to outdoor temperature before using |
| Snow thrower stalls tractor engine | 1. Object jammed in spiral auger  
2. Hard or heavy snow                                                    | 1. Stop engine, disengage the snow thrower clutch and clear the auger  
2. Increase to full throttle and decrease ground speed                     |
| Front wheels slide instead of steering | Not enough traction at front wheels                                  | 1. Increase scraper plate clearance by lowering skid shoes  
2. Pull down on lift handle to increase weight on front wheels             |
| Snow thrower rides up over snow  | 1. Tractor ground speed too fast  
2. Bottom snow is icy or hard packed                                     | 1. Reduce ground speed  
2. Lower the skid shoes so that front of skid shoe is lower than the rear |
REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Tractors With Model Numbers Beginning With 247)
## REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Tractors With Model Numbers Beginning With 247)

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REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Tractors With Model Numbers Beginning With 247)
## REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
(For Tractors With Model Numbers Beginning With 247)

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REPAIR PARTS FOR MODEL 486.248371 42" SNOW THROWER
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<td>Pin, Hair Cotter 5/64&quot;</td>
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<td>Hex Bolt, 3/8-16 x 2-3/4&quot; Lg.</td>
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<td>Lock Washer, 1/4&quot;</td>
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<td>Pulley, Flat 3-5/8&quot;</td>
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<td>27010</td>
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<td>Front Bracket, R.H.</td>
</tr>
<tr>
<td>54</td>
<td>27011</td>
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<td>Front Bracket, L.H.</td>
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WARNING: To avoid serious injury, operate your tractor up and down the face of the hill, never across the hill. Do not operate down the face of slopes, never across the face of slopes. Reduce speed on slopes. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes. Braking may be affected by tractor attachment.

1. Hold this page along dotted line indicated above.
2. Hold page before you so that its left edge is vertically parallel to a tree or other upright structure.
3. Sight across the fold in the direction of hill slope you want to measure.
4. Compare the angle of the fold with the slope of the hill.

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