

OWNER'S MANUAL
36" SNOW THROWER ATTACHMENT
MODEL 5705-04

ONE YEAR LIMITED WARRANTY

For one (1) year from date of purchase by the first customer for residential use (thirty (30) days commercial use), NOMA Outdoor Products Incorporated warrants that it will replace free of charge, including labor, any original part of any NOMA Outdoor Products Incorporated product found to be defective by any authorized Service Dealer of the factory.

This warranty does not cover battery (if so equipped) or engine (these items are covered by their manufacturer's own warranty). This warranty does not cover parts that have failed due to normal wear or parts that have failed subject to misuse or abuse. Transportation of the unit or part to and from an authorized Service Dealer or the factory is the responsibility of the owner.

A step by step explanation as to what procedure should be followed for this Warranty is:

1. If a part becomes defective, contact the store where the unit was purchased for the name and address of the authorized Service Dealer nearest to you.
2. If you cannot locate an authorized Service Dealer, write Service Department of NOMA Outdoor Products Incorporated for the name and address of the authorized Service Dealer in your area or call the Service Department at 1-901-422-1690.
3. Return the defective product, along with proof of purchase to such authorized Service Dealer for replacement of any defective part where covered by this warranty.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose are limited to one (1) year from the date of purchase. Liability for incidental or consequential damages are excluded.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

NOMA Outdoor Products Incorporated

Caller 8000

Jackson, TN 38308-8000

UNIT PARTS AND SERVICE

This manual contains instructions for safety, assembly and maintenance. Read this manual carefully and completely so that you will know proper assembly, use and care of your unit. Also fill in and mail the registration card packed with the unit. For service other than covered in this manual, contact an authorized service dealer. A nationwide parts and service organization has been established to provide locally available parts and service. A list of authorized parts distributors has been included in this manual. When ordering repair parts, always give the following information: 1. The Part Name; 2. The Part Number; 3. The Quantity desired; 4. The Full (eight digit) Model Number of the unit. The model number will be found on a plate attached to the unit.



Look for this symbol. It means - ATTENTION! BECOME ALERT! A HAZARD TO OPERATOR, BYSTANDER, PROPERTY OR EQUIPMENT MAY EXIST.

NOMA Outdoor Products Incorporated
Caller 8000
Jackson, Tennessee 38308-8000

Part No. 305838

3089



OPERATIONAL PRECAUTIONS



THESE INSTRUCTIONS ARE FOR YOUR PROTECTION. PLEASE READ THEM CAREFULLY.

TRAINING

1. Read the owner's manual carefully. Be thoroughly familiar with the controls and the proper use of the snow thrower. Know how to stop the snow thrower and disengage the controls quickly.
2. Never allow children or young teenagers to operate the snow thrower and keep them away while it is operating. Never allow adults to operate the snow thrower without proper instruction. Do not carry passengers.
3. Keep the area of operation clear of all persons, particularly small children, and pets.
4. Exercise caution to avoid slipping or falling, especially when operating in reverse

PREPARATION

1. Thoroughly inspect the area where the snow thrower is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
2. Disengage all clutches and shift into neutral before starting the engine (motor).
3. Do not operate the snow thrower without wearing adequate winter outer garments. Wear footwear that will improve footing on slippery surfaces.
4. Handle fuel with care; it is highly flammable.
 - (a) Use an approved fuel container.
 - (b) Never remove fuel tank cap or add fuel to a running engine or hot engine.
 - (c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - (d) Replace fuel tank cap securely and wipe up spilled fuel.
 - (e) Never store fuel or snow thrower with fuel in the tank inside of a building where fumes may reach an open flame or spark.
 - (f) Check fuel supply before each use, allowing space for expansion as the heat of the engine (motor) and/or sun can cause fuel to expand.
5. Use extension cords and receptacles as specified by the manufacturer for all snow throwers with electric drive motors or electric starting motors.
6. Adjust the snow thrower height to clear gravel or crushed rock surface.
7. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).
8. Let engine (motor) and snow thrower adjust to outdoor temperatures before starting to clear snow.
9. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the snow thrower.

OPERATION

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, disconnect the cord on electric motors, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
4. If the snow thrower should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

5. Stop the engine (motor) whenever you leave the operating position, before unclogging the auger/impeller housing or discharge guide, and when making any repairs, adjustments, or inspections.
6. When cleaning, repairing, or inspecting, make certain the auger/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
7. Take all possible precautions when leaving the snow thrower unattended. Disengage the auger/impeller, shift to neutral, stop engine, and remove key.
8. Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).
9. Do not clear snow across the face of slopes. Exercise caution when changing direction on slopes. Do not attempt to clear steep slopes.
10. Never operate the snow thrower without proper guards, plates or other safety protective devices in place.
11. Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-offs, and the like without proper adjustment of the snow discharge angle. Keep children and pets away.
12. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
13. Never operate the snow thrower at high transport speeds on slippery surfaces. Look behind and use care when backing.
14. Never direct discharge at bystanders or allow anyone in front of the snow thrower
15. Disengage power to the auger/impeller when snow thrower is transported or not in use.
16. Use only attachments and accessories approved by the manufacturer of the snow thrower (such as tire chains, electric start kits, etc).
17. Never operate the snow thrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles, Walk; never run.

WARNING

This snow thrower is for use on sidewalks, driveways, and other ground level surfaces. CAUTION should be exercised while using on steep sloping surfaces. DO NOT USE SNOW THROWER ON SURFACES ABOVE GROUND LEVEL such as roofs of residences, garages, porches or other such structures or buildings.

MAINTENANCE AND STORAGE

1. Check shear bolts and other bolts at frequent intervals for proper tightness to be sure the snow thrower is in safe working condition.
2. Never store the snow thrower with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
3. Always refer to owner's manual instructions for important details if the snow thrower is to be stored for an extended period.
4. Maintain or replace safety and instruction labels, as necessary.
5. Run the snow thrower a few minutes after throwing snow to prevent freeze-up of the auger/impeller.

OWNER'S INFORMATION

Record the following information about your unit so that you will be able to provide it in case of loss or theft.

MODEL NUMBER: — (Enter complete 8 digit model number from model plate on unit)

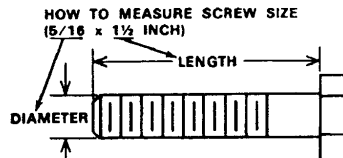
PURCHASE DATE: ___ / ___ / ___ CODE NO. _____ SERIAL NO. _____

DEALER'S NAME AND ADDRESS _____

CITY _____ STATE _____ TELEPHONE _____

CONTENTS OF SHIPPING CARTON

- 1 - 36 inch Snow Thrower Attachment (some of the following parts will not be used. Use parts as instructed in assembly instruction)
- 1 - Owner's Manual
- 1 - Discharge Chute
- 1 - Lift Handle
- 1 - Chute Crank
- 1 - Chute Crank Support (with small bend)
- 1 - Chute Crank Support (with large bend)
- 1 - Chute Control Rod (lower)
- 1 - V-Belt, 52-3/8 Inch
- 1 - V-Belt, 51 Inch (39" Deck)
- 1 - V-Belt, 76-5/8 Inch
- 1 - Hitch Assembly
- 2 - Rear Hanger Braces
- 1 - Right Front Hanger (3 holes)
- 1 - Left Front Hanger (3 holes)
- 1 - Right Front Hanger (7 holes)
- 1 - Left Front hanger (7 holes)
- 1 - Large Bag of Assembly Parts Containing:
 - 1 - Hand Grip
 - 1 - Chute Crank Decal
 - 1 - Spacer, Axle Pivot, 1 inch
 - 1 - 1/4 x 1 inch Spiral Pin
 - 1 - "U" Bolt, Small
 - 2 - Springs
 - 2 - 13/64 inch Flatwasher
 - 2 - No. 10 Locknuts
 - 2 - 7/16 x 1 inch Hex Head Screws
 - 2 - 7/16 inch Split Lockwashers
 - 2 - 7/16 inch Hex Nuts
 - 2 - 3/8 x 1 inch Hex Head Screws
 - 2 - 3/8 inch Locknuts
 - 2 - 1/2 x 2-1/2 inch Hex Head Screws
 - 2 - 1/2 inch Hex Jam Nuts
 - 2 - 1/2 inch Hex Nuts
 - 1 - 5/16 x 1-1/2 inch Hex Head Screws
 - 5 - 5/16 x 7/8 inch hex Head Screws
 - 8 - 5/16 inch Locknuts
 - 2 - 5/16 inch Hex Nuts
 - 5 - 1/4 x 3/4 inch Hex Head Screws
 - 2 - 1/4 x 1/2 inch hex Head Screws
 - 1 - 1/4 inch Flatwasher
 - 7 - 1/4 inch Locknuts
- 1 - Large Bag of Assembly Parts Containing:
 - 1 - Pulley
 - 1 - Belt Retainer
 - 2 - Spacers
 - 1 - 3/8 x 3-3/4 inch hex Head Screws
 - 1 - 3/8 inch Locknuts
- 2 - Small Bags of Muffler Parts Containing:
 - 2 - Exhaust Deflectors
 - 2 - "U" Bolts, Large
 - 4 - 3/8 x 1 Hex Head Self-Tap Screws
 - 4 - 5/16 inch locknuts
 - 4 - Spacers, 3/16 inch
- 1 - Bag of Shear Bolt Replacement Parts (not used in assembly) Containing:
 - 2 - 5/16 x 1-3/4 inch Shear Bolts
 - 2 - 5/16 inch Locknuts



TOOLS REQUIRED FOR ASSEMBLY

- 1 - 3/8 inch Wrench (or adjustable wrench)
- 2 - 7/16 inch Wrenches (or adjustable wrenches)
- 2 - 1/2 inch Wrenches (or adjustable wrenches)
- 2 - 9/16 inch Wrenches (or adjustable wrenches)
- 2 - 5/8 inch Wrenches (or adjustable wrenches)
- 2 - 3/4 inch Wrenches (or adjustable wrenches)
- 1 - 7/8 inch Wrench (or adjustable wrench)
- 1 - Pair Vice Grip Pliers or "C" Clamp
- 1 - Hammer
- 1 - Tape Measure or Ruler (at least 6 inches long)

⚠ DANGER ⚠

This snow thrower attachment can be dangerous if carelessly used.

Read Owner's Manual thoroughly before operating snow thrower.

Always wear safety glasses or eye shields while assembling or operating snow thrower.

The rotor (just below discharge chute) moves at a very high speed and will sever fingers or hands if they come in contact with rotor while the engine is running.

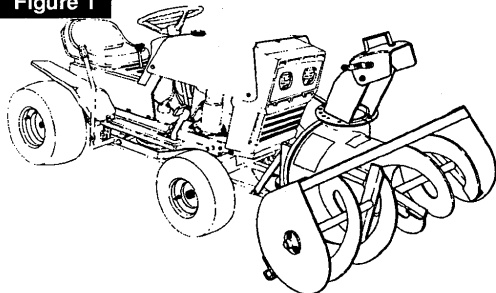
Keep hands, feet, loose clothing and hair away from auger, discharge chute or any moving part on the snow thrower and tractor/rider.

DO NOT allow children or young teenagers to operate or be near snow thrower while it is operating.

ASSEMBLY

The Snow Thrower Attachment and all necessary parts and hardware are packed in one carton. Figure 1 shows unit completely assembled to tractor/riding mower. **NOTE:** Due to the size and weight of this attachment, assembly will be easier with the help of a second person.

Figure 1



Your Snow Thrower Attachment is left or right hand as you face the unit from operator position.

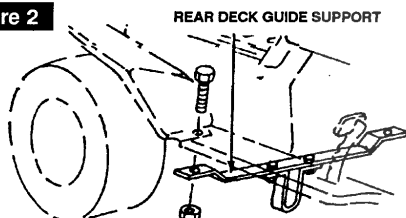
TO PREPARE TRACTOR/RIDING MOWER

1. Remove mower deck (see **Mower Deck Removal** section in **Tractor/Riding Mower Operator's Manual**). **NOTE:** Be sure to connect by-pass wire to tractor/rider wire assembly.

If your tractor/rider mower is equipped with a suspended deck (cutting height lever mounted on fender) proceed to step 6.

2. Remove mower deck rear guide support (figure 2) by removing screws and locknuts at outside ends of support. **NOTE:** On some units these screws also attach fenders to running board and must be reinstalled after removal of rear guide support.

Figure 2

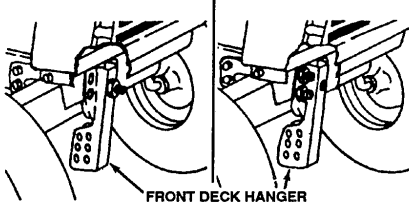
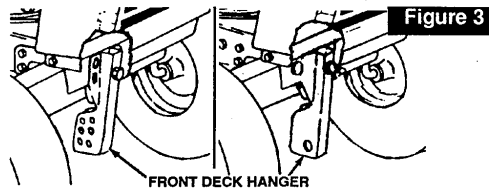


3. If front deck hanger is attached to front axle with large bolt through center from front to rear (as shown in figure 3A or 3B), it will be removed after installation of snow thrower hitch assembly.

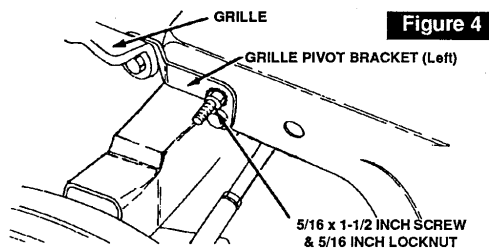
4. If front deck hanger is attached to front axle with a large bolt through center from rear to front (as shown in figure 3C), remove nut and hanger. Place spacer on pivot bolt. Reinstall nut and tighten securely.

5. If front deck hanger is attached to front axle with a large bolt through center from rear to front with 1 or 2 side bolts (as shown in figure 3D), remove side bolt(s). Remove nut from center bolt and remove hanger. Place spacer on center bolt and reinstall nut. Reinstall washer(s) and nut(s) on side bolt(s) and tighten nut(s) until light pressure is applied to curved washer(s).

4



6. Remove bottom rear screw in grille pivot bracket on left side of riding mower. Replace with a 5/16 x 1-1/2 inch hex head screw, from inside out, as shown in figure 4. Secure with a nut from removed screw.



7. Install tire chains (available as an accessory) onto rear wheels of rider as follows. **NOTE:** Wheel weights are also available for large units (rear tire 20" or larger).

- A. Lay chains on ground behind rider with small hook on inside of tire and long hook on outside of tire.
- B. Push rider onto chains.
- C. Pull chain over top of tire and hook inside hook.
- D. Pull chain tight and hook outside hook.
- E. Repeat steps C and D on other wheel.

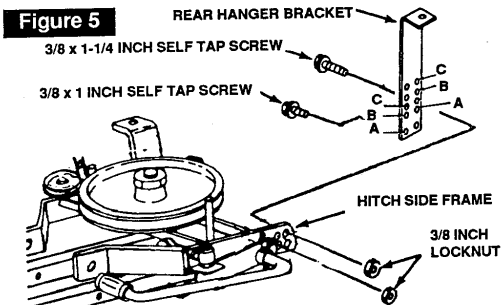
TO ASSEMBLE HITCH ASSEMBLY

If your tractor/rider is equipped with a 39 inch mower deck, the hitch drive belt will need to be changed. Using short v-belt supplied, replace hitch drive belt as instructed in **To Replace Hitch Drive Belt** paragraph in **Maintenance** section of this manual.

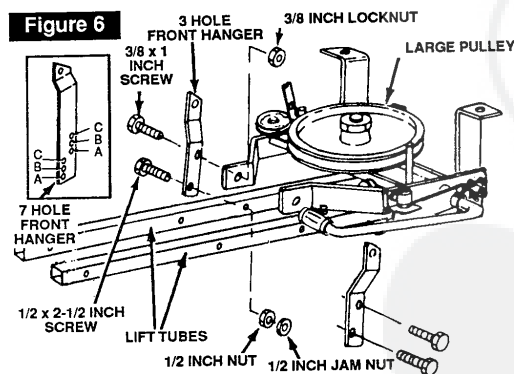
Lay hitch assembly (figure 5) on ground with large pulley up. **NOTE:** Square (lift) tubes extend from front of hitch assembly. To position rear hanger brackets, proceed as follows:

1. If your tractor/rider has 16 inch front tires and rear tires that are larger than 20 inches, use holes "A" in hanger.
2. If your tractor/rider has 15 inch front tires and 20 inch rear tires, use holes "B" in hanger.
3. If your tractor/rider has rear tires smaller than 20 inches, use holes "C" in hanger.

- A. Remove locknuts and self-tap screws securing left rear hanger to sides of hitch assembly **NOTE:** A spring is hooked over top rear screw on left side.
- B. Raise hanger and align lower set of holes in hanger with holes in hitch side frame that self-tap screws were removed from.
- C. Use a "C" clamp or a pair of vice grips to hold hanger in place while reinstalling self-tap screws.
- D. Reinstall self-tap screws in same location in side frame as removed from. **NOTE:** Be sure that the lower self-tap screw is reinstalled in top rear hole on left side and that spring is rehooked to this screw.
- E. Reinstall locknuts on outside ends of self-tap screws and tighten securely.
- F. Repeat steps A through E on right side. **NOTE:** After snow thrower attachment has been attached to tractor/rider, check position of drive belt between engine and upper hitch pulleys. Belt must be level. If belt is not level, recheck hanger installation instructions. It may be necessary to change rear hanger bracket mounting position to achieve a level belt.



4. Remove and discard shipping screws and nuts installed through lift tubes and side of hitch assembly in front of large pulley.
5. If your tractor/rider has 18 inch rear tires, go to Step 8 and use front hanger brackets with 3 holes (figure 6).
6. If your tractor/rider has rear tires 20 inches or larger, use front hanger brackets with 7 holes (see insert figure 6). Step 7 explains how to determine which holes to use.
7. Measure distance from underside of main frame to top of large pulley on engine.
 - A. If distance is 7 inches, use lower set "A" of holes in bracket.



- B. If distance is 6-1/2 inches, use middle set "B" of holes in bracket.
- C. If distance is 5-1/4 inches, use top set "C" of holes in bracket.

8. Attach front hangers to front of hitch assembly as shown in figure 6 (hole in top end forward). Attach hangers with two 3/8 x 1 inch hex head screws and two 3/8 inch locknuts. **NOTE:** Tighten nuts snug only, allowing front hangers to pivot.

9. Apply grease to a 1/2 x 2-1/2 inch hex head screw and insert screw through lower hole in front hanger and through hole in lift tube from outside in as shown in figure 6. Secure with a 1/2 inch hex nut. **NOTE:** Tighten hex nut snug only, loose enough to allow pivoting of hanger and lift tube.

10. Place a 1/2 inch jam nut (thinner than regular nut) onto screw and tighten against hex nut.

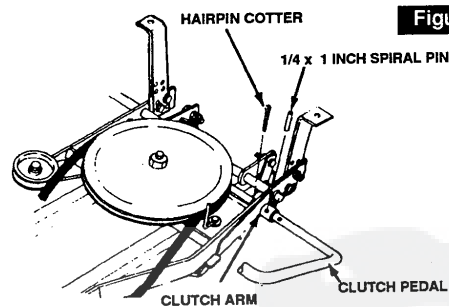
11. Repeat steps 9 and 10 on opposite side.

12. Remove hairpin cotter (figure 7) from center hole in clutch pedal rod and reinstall into hole farthest away from bend (toward right side).

13. Remove hairpin cotter (figure 7) from center hole in clutch pedal rod and reinstall into hole farthest away from bend (toward right side).

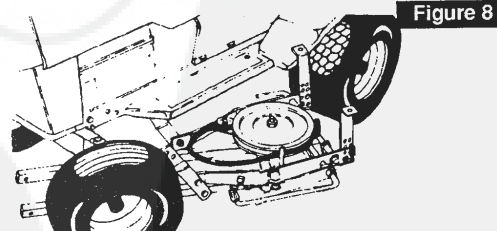
14. Raise pedal until hole in pedal aligns with center hole in clutch arm (figure 7).

15. Drive a 1/4 x 1 inch spiral pin through hole in clutch arm and clutch pedal rod. **NOTE:** Clutch arm should be against side of hitch assembly and extra hole in clutch pedal rod should be visible outside of clutch arm.



ATTACH HITCH ASSEMBLY TO TRACTOR/RIDING MOWER

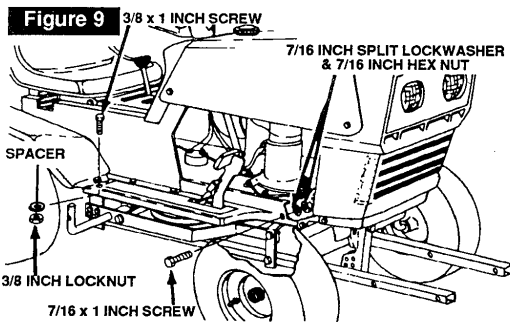
1. Turn front wheels to extreme right turn position. **NOTE:** On units with suspended deck, place height lever in lowest possible position.
2. Slide assembly under left side of rider (lift tubes extending out between front wheel as shown in figure 8).
3. Attach rear hangers to holes in running board with two



3/8 x 1-1/4 inch hex head screws, two spacers, and two 3/8 inch locknuts (shipped installed in rear hangers) as shown in figure 9 (spacer between rear bracket and running board). **NOTE:** Mounting holes on some models may be under the foot pad on the running board. **Do Not** tighten yet.

4. Attach front hangers (inside main frame) to holes in front side frame with two 7/16 x 1 inch screws, two 7/16 inch split lockwashers and two 7/16 inch hex nuts as shown in figure 9.

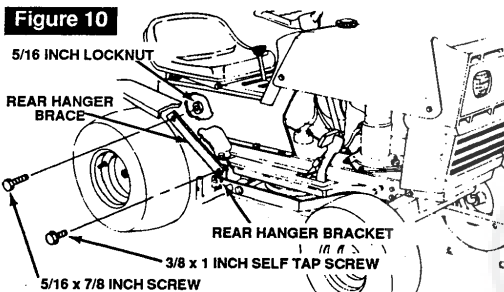
5. Tighten all four mounting screws.



6. Place hitch assembly drive belt (shipped installed on large upper pulley) onto engine pulley. **NOTE:** Be sure that idler pulley is against outside edge of belt.

7. Reposition engine pulley belt guides to within 1/16 inch of engine pulley.

8. If your tractor/rider has larger than 20 inch rear tires, attach rear hanger brace to outside of each rear hanger bracket and inside of main frame as shown in figure 10. Attach brace to top rear hole in hanger bracket with a 3/8 x 1 inch self-tap screw. Attach other end of brace to inside of main frame near rear axle with a 5/16 x 3/4 inch hex head screw and a 5/16 inch locknut. **NOTE:** If your tractor/rider is equipped with optional sleeve type implement hitch, attach braces to main frame with existing 5/16 x 1-1/4 inch hex head screw and 5/16 inch locknut.



9. Remove screw and locknut from lower end of lift handle (figure 11).

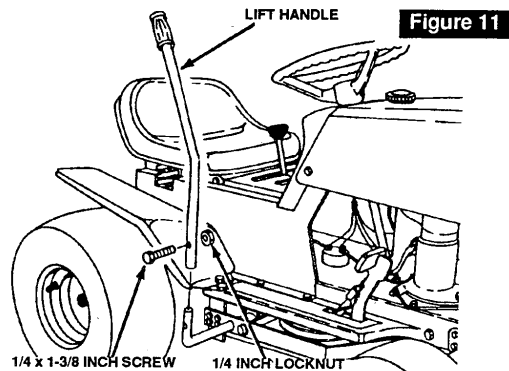
10. Place lift handle over end of lift crank (on right side of unit) as shown in figure 11, and align holes.

11. Reinstall screw through holes in lift handle and lift crank and reinstall locknut. Tighten securely.

12. If front deck hanger is attached to front axle with a large pivot bolt through center of hanger (from front to rear) as shown in figure 12, proceed as follows:

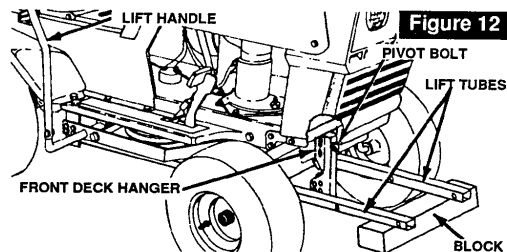
A. Remove locknut from pivot bolt.

B. Place a block under front ends of lift tubes.



C. Remove weight from front wheels by pulling lift handle forward and remove pivot bolt and front hanger.

D. Place spacer on pivot bolt and reinstall bolt and locknut. **NOTE:** Be sure that the shoulder portion of the pivot bolt goes all the way through the axle assembly and bottoms against the plate behind the axle.



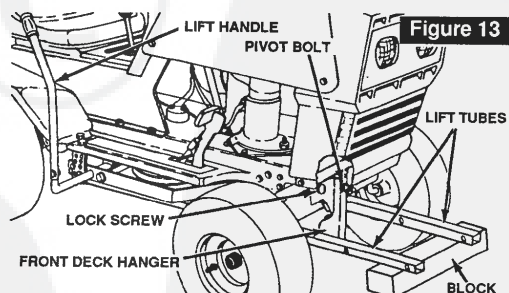
13. If front deck hanger is attached to front axle with a large pivot bolt through center of hanger (from front to rear) and two lock screws as shown in figure 13, proceed as follows:

A. Remove locknuts from pivot bolt and lock screws.

B. Place a block under front ends of lift tubes.

C. Remove weight from front wheels by pulling lift handle forward and remove pivot bolt, lock screws, and front hanger.

D. Place spacer on pivot bolt and reinstall bolt and locknut. **NOTE:** Be sure that the shoulder portion of the pivot bolt goes all the way through the axle assembly and bottoms against the plate behind the axle.

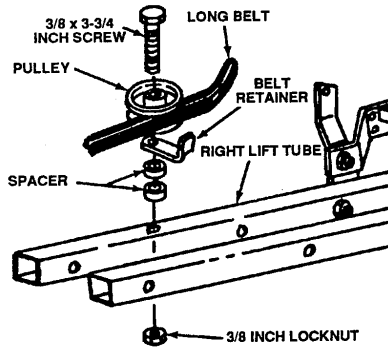


- E. Reinstall two lock screws. **NOTE:** Reassembly of front hanger when snow thrower is removed will be easier if lock bolts are reinstalled from back to front with washers and nuts on front of axle.
- F. Tighten locknuts on lock screws until curve in spring washers has been flattened.

TO ASSEMBLE SNOW THROWER ATTACHMENT TO HITCH ASSEMBLY

- On suspended deck units a pulley must be installed on right side lift tube to prevent long belt from rubbing on front deck hanger. To install pulley:
 - Place a 3/8 x 3-3/4 inch hex head screw through pulley.
 - Place belt retainer onto screw, then two spacers.
 - Attach assembled parts to top side of right lift tube as shown in figure 14. Secure with a 3/8 inch locknut. **Do Not** tighten until belt has been installed.
 - Turn belt retainer toward left front wheel and place long belt between belt retainer and pulley. Tighten locknut installed in step C above. **NOTE:** Belt must be on inside (toward left wheel) of pulley.

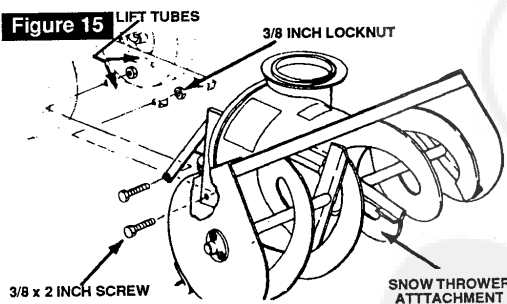
Figure 14



- Attach snow thrower attachment to lift tubes with four 3/8 x 2 inch hex head screws and four 3/8 inch locknuts (shipped installed to front ends of lift tubes) as shown in figure 15.

- Install long belt (shipped loose in carton) around lower (small) pulley on underneath side of hitch assembly and around large pulley on rear of snow thrower attachment. **NOTE:** Idler pulley must be on outside of belt (left side).

Figure 15



- Pull idler pulley against belt and locate hole in gear box mounting bracket that is the nearest to 6 inches from bolt securing spring to idler arm as shown in figure 16. Secure

loose end of spring to that thole with a 1/4 x 3/4 inch hex head screw, 1/41 inch flatwasher and 1/4 inch locknut.

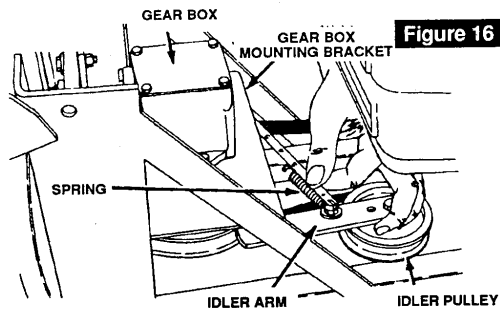


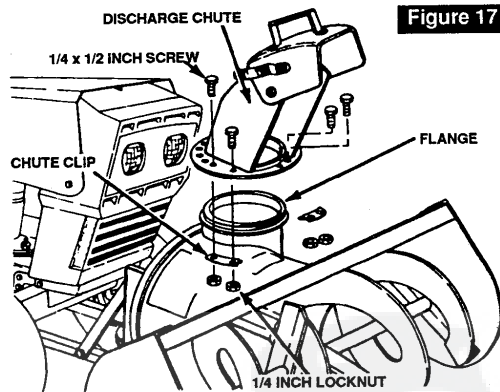
Figure 16

- apply grease to flange (figure 17) around opening in top of snow thrower attachment.

- Place discharge chute onto flange. **NOTE:** Be sure that hook on bottom rear of chute hooks under flange on snow thrower attachment.

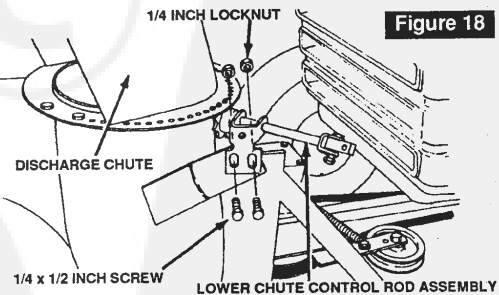
- Secure chute to flange with two chute clips, four 1.4 x 1/2 inch hex head screws and four 1/4 inch locknuts. **NOTE:** Each of the chute clips were shipped attached to chute with one each of the fasteners. Other two fasteners are in parts bag.

Figure 17



- Attach lower chute control rod (with sprocket attached) to bracket extending from left rear side of snow thrower attachment below discharge chute (figure 18) with two 1/4 x 1/2 inch hex head screws and two 1/4 inch locknuts (shipped installed in lower chute control rod assembly). **NOTE:** Make sure that sprocket fully engages holes in bottom of discharge chute before tightening screws.

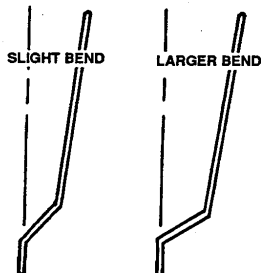
Figure 18



NOTICE

Your snow thrower attachment is equipped with two chute crank supports (figure 19). One has a slight bend in lower end and one has a larger bend. Use support with slight bend if your tractor/rider has steering sector gear located above the main frame. Use support with larger bend if your tractor/rider has steering sector gear located below main frame.

Figure 19



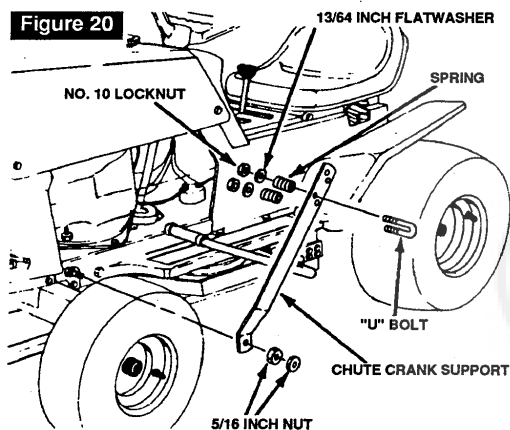
9. Attach chute crank support (figure 20) to long screw placed in left side grille pivot bracket with a 5/16 inch hex nut. **NOTE:** Tighten snug only. Support must be allowed to pivot on screw. Tighten a second 5/16 inch hex nut against first nut to lock into place.

10. Place the small "U" bolt into one of two sets of two holes at top of support (figure 20). **NOTE:** In most cases, lower holes are used for tractor/riders with 20 inch or smaller rear tires. After assembly is completed, location can be changed to place chute crank in most comfortable operating position.

11. Place a spring and a 13/64 inch flatwasher onto each end of "U" bolt.

12. Start a No. 10 locknut onto each end of "U" bolt. **NOTE:** Turn locknuts only far enough to hold "U" bolt in place.

Figure 20



13. Thread curved end of chute crank up through "U" bolt on outside of crank support as shown in figure 21.

14. Force chute crank up through "U" bolt until "U" bolt is located in notch on crank.

15. Tighten locknuts onto "U" bolt until springs tighten enough to hold crank snug.

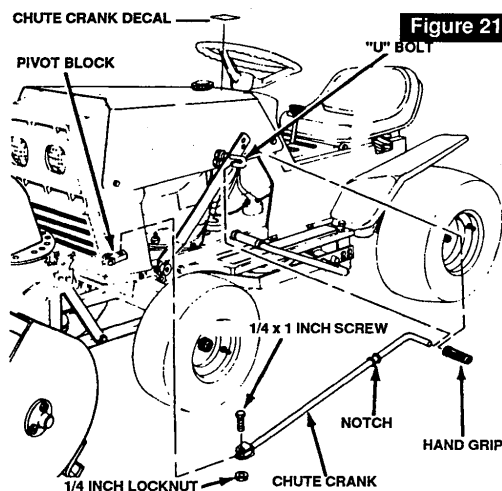
16. Attach clevis (lower) end of chute crank to pivot block (located in end of lower chute control rod) with a 1/4 x 1 inch hex head screw and a 1/4 inch locknut (shipped installed in pivot block). **NOTE:** Tighten snug only. Clevis must move freely on pivot block.

17. Place hand grip onto chute crank.

18. Peel backing off decal and place decal on left rear of riding mower hood in a position where it can be read from operator position on rider. This decal instructs proper rotation of chute crank for desired direction of discharge chute.

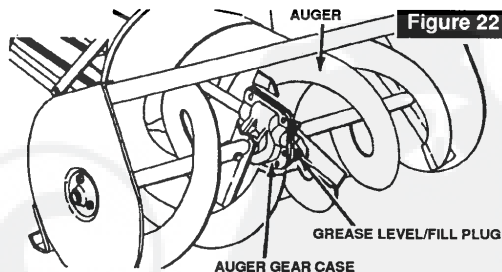
CHUTE CRANK DECAL

Figure 21



19. The auger gear case has been factory lubricated for life. If for some reason lubricant should leak out, have auger gear case checked by a competent repairman.

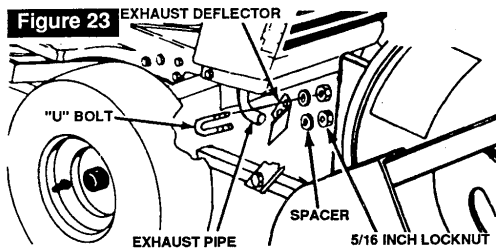
Figure 22



20. If your tractor/rider is equipped with a muffler that extends forward and under grille, an exhaust deflector (figure 23) must be installed as follows:

NOTE: Some models will have two mufflers. An extra deflector is included.

- Attach exhaust deflector on underneath side of exhaust pipe as shown with the large "U" bolt, two spacers and two 5/16 inch locknuts.
- Turn deflector so that exhaust will be deflected away from drive belt and gear box.
- Tighten securely.



Check drive belt for level position (see paragraph "F" in step 3 of **To Assemble Hitch Assembly** instruction on page 5 of this manual.

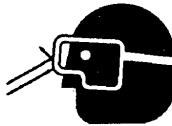
TO REMOVE SNOW THROWER

1. Remove screws and nuts securing front hangers to front side frame of tractor/riding mower.
2. Remove screws and nuts securing rear hangers to tractor/riding mower running boards.
3. Remove screws securing rear hanger braces to the rear of main frame if braces were installed.

4. Remove hitch assembly drive belt from engine pulley.
5. Remove chute crank support by removing two nuts from lower end of support. **NOTE:** If you have necessary help or equipment to lift front of tractor/riding mower approximately 20 inches off ground, you can slide snow thrower out the front, omitting steps 6,7,8,9,10 and 11. Also same help or equipment can be used instead of lift tubes for step 9.
6. Remove auger drive belt.
7. Remove four screws and nuts that secure snow thrower attachment to lift tubes.
8. Push tractor/riding mower away from snow thrower attachment.
9. If lift tubes were used to raise front of tractor/riding mower to remove front deck hanger, use same method to reinstall deck hanger.
10. Remove screw and nut securing lower end of lift handle and remove lift handle.
11. Slide hitch assembly out from under left side of tractor/riding mower.
12. Reinstall front deck hanger if not done in step 9.
13. Reinstall mower deck rear guide support
14. Reinstall mower deck (see riding mower manual).

OPERATION

The operation of this snow thrower attachment can result in objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating a snow thrower. We recommend standard safety glasses or Wide Vision Safety Mask for over spectacles.

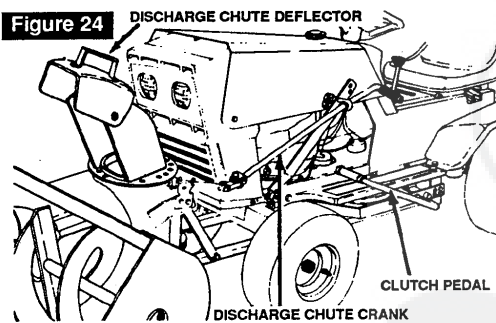


Get to know your snow thrower and its controls. Be sure you or any other operator have read and understood the **Operational Precautions** listed on page 2 of this manual.

OPERATING CONTROLS

Be sure that operator is familiar with the controls and operation of tractor/riding mower before attempting to operate unit with snow thrower attached.

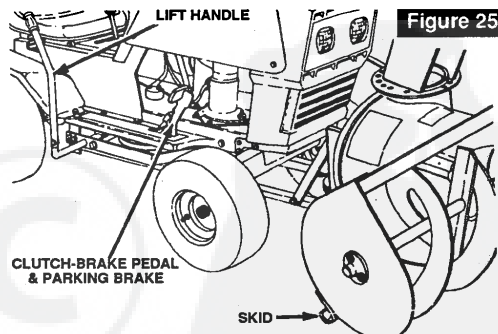
Snow thrower attachment controls (figures 24 & 25) and their functions are as follows:



- **Discharge Chute Crank** - Used to change direction of snow discharge. Turn handle clockwise to turn discharge chute to the **left**. Turn handle counterclockwise to turn chute to the **right**. All snow can be discharged to

one side by changing discharge chute direction when changing direction of travel.

- **Discharge Chute Deflector** - The distance snow will be discharged can be adjusted by moving chute deflector. Loosen wingnut on side of chute deflector and pull deflector up for more distance or push deflector down for less distance. This control along with discharge chute crank allows desired placement of discharged snow.
- **Clutch Pedal** - Used to engage and disengage auger drive belt. Pedal must be depressed and held down for auger to turn. Pedal should be released (disengaged) before engine is started.



- **Lift Handle** - Used to raise and lower snow thrower attachment. Push handle forward to lower snow thrower. Pull lever rearward to raise snow thrower.
- **Skids** - Used to raise front of snow thrower for removing snow from rock or unpaved surface. **NOTE: Skids must be adjusted so that front bottom of snow thrower clears smooth surface by at least 1/4 inch.** Adjust skids as follows:
 - A. Raise snow thrower by pulling lift handle to full back position.

- B. Place a block (thick enough to clear any uneven surface) under each side of snow thrower and lower snow thrower onto blocks.
- C. Loosen locknuts securing skids.
- D. Push skids down and retighten locknuts.
- E. Remove blocks, lower snow thrower and check to be sure snow thrower is raised an equal amount on each side.

SNOW THROWER OPERATION

The most effective use of the snow thrower will be established by experience, taking into consideration the terrain, wind conditions and the depth and weight of the snow. It is the wind conditions and building location which will determine the direction of the discharge chute. Since the wind will tend to blow the discharged snow back into the cleared area, it will be necessary to change the chute direction to offset this condition. **NOTE:** Do not throw snow towards a building as hidden objects could be thrown with sufficient force to cause damage.

Before starting engine, test the following controls for smooth operation:

1. Lift lever.
2. Snow thrower clutch pedal.
3. Chute crank.
4. Chute deflector.
5. Skids raise front of snow thrower enough to clear any uneven surfaces.
6. Tractor/riding mower brake-clutch pedal and parking brake.
7. Be sure tractor/riding mower engine has been serviced as instructed in its owners manual.

Snow removal conditions vary so much from light fluffy snow to wet heavy snow that operating instructions must be flexible to fit the conditions. The operator must adapt the tractor/riding mower and the snow thrower to depth of snow, wind direction, temperature and surface conditions.

To begin snow thrower operation, proceed as follows:

1. Adjust chute deflector up or down for discharge distance.
2. Adjust chute crank for discharge direction.
3. Set tractor/riding mower parking brake.
4. Pull lift handle full backward, raising snow thrower.
5. Be sure snow thrower clutch pedal is in disengage (not depressed) position.
6. Place tractor/riding mower shift lever in neutral.
7. Start engine as instructed in tractor/riding mower owners manual. **NOTE:** Allow engine to warm up for a few minutes before attempting to begin operation.

⚠ DANGER ⚠

Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains **CARBON MONOXIDE**, an **ODORLESS** and **DEADLY GAS**.

Keep hands, feet, hair and loose clothing away from any moving parts on engine and snow thrower.

WARNING: Temperature of muffler and nearby areas may exceed 150° F. Avoid these areas.

8. Move tractor/riding mower to area to begin snow thrower operation.

9. Push lift handle forward to lower snow thrower to operating position.

10. Push and hold snow thrower clutch pedal (on left side) down to begin snow thrower operation. **NOTE:** Engine should be run at full throttle.

11. Place tractor/riding mower in first (1) gear and slowly release brake-clutch pedal (on right side).

DEEP OR DRIFTED SNOW REMOVAL

In deep, drifted or banked snow, it may be necessary to move slower than first (1) gear. To do this, simply use tractor/riding mower brake-clutch pedal to halt forward movement at intervals to allow snow thrower to clear the snow. On second pass, overlap first path enough so that clutching will not be necessary.

Extremely deep snow can be removed by raising snow thrower attachment and advancing only until front wheels reach area where snow has not been removed to ground level. Reverse tractor/riding mower and lower snow thrower to ground level. Advance forward again until snow becomes too deep. Repeat as needed to remove deep drifts. **NOTE:** Do not allow tractor/riding mower wheels to run over unplowed snow. Snow will become packed and difficult to remove.

OPERATING SUGGESTIONS

Before the first snowfall, the area in which snow removal is to take place should be cleared of all stones, sticks and items that may be picked up and thrown by the snow thrower. Mark all unmovable obstructions that may become covered with snow to prevent collisions that could damage snow thrower and/or tractor/riding mower.

Become familiar with the operation of the tractor/riding mower and snow thrower by operating in a clear area before attempting to remove snow if possible.

Allow engine to warm up before starting snow removal.

For best results, snow should be removed as soon as possible after it falls.

Whenever possible, discharge snow down wind.

Do not attempt to remove ice or hard packed frozen snow.

Always overlap each pass to assure complete snow removal.

⚠ DANGER ⚠

Do not attempt to remove any item that may become lodged in auger without taking the following precautions:

1. Release snow thrower clutch pedal.
2. Set parking brake on tractor/riding mower.
3. Move throttle lever to STOP position.
4. Turn key to OFF position.
5. Do not place your hands in the auger or discharge chute. Use a pry bar.

ADJUSTMENTS

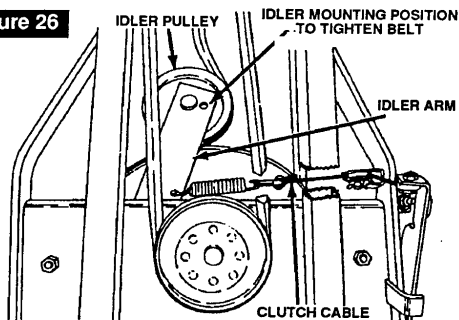
This unit is equipped with two v-belts. The auger drive belt is under spring tension at all times and should not require adjustment.

TO ADJUST HITCH DRIVE BELT

If hitch drive belt (engine pulley to large hitch pulley) seems to slip due to wear or stretch, adjust as follows:

1. Remove screw and nut securing clutching idler pulley (figure 26) to idler arm.
2. Reposition idler pulley in hole in arm that is closer to pulley.
3. Reinstall screw and nut and tighten securely.

Figure 26

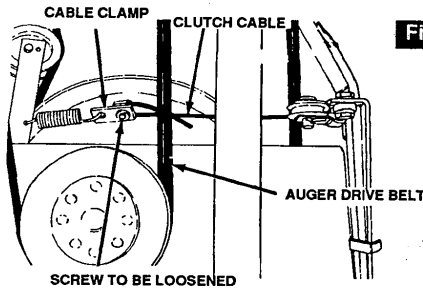


TO ADJUST CLUTCH CABLE

If auger does not stop within a few seconds after clutch pedal (left side of unit) is released and remain stopped, clutch cable may need adjustment. Brake pad at rear of clutching idler arm should be firmly against large hitch pulley and clutch cable should not be under tension (but not loose) when clutch pedal is in released (disengaged) position. To adjust cable length:

1. Loosen screw in cable clamp (figure 27).
2. Pull (to shorten) or push (to lengthen) loose end of cable through clamp until cable is not under tension.
3. Retighten screw in cable clamp.

Figure 27



TO ADJUST CHUTE CONTROL ROD

If chute control rod becomes loose or is too tight (seems to bind), check position as instructed in **Step 8 in To Assemble Snow Thrower Attachment To Hitch Assembly** paragraph in **Assembly** section of this manual.

MAINTENANCE

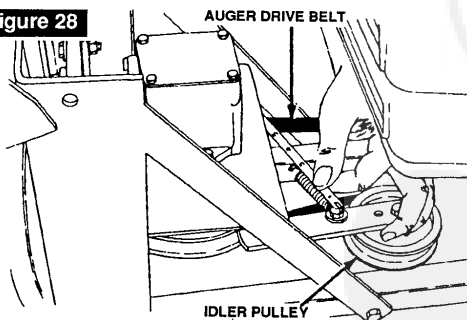
DRIVE BELT REPLACEMENT

The drive belts on this unit are of special construction and should be replaced with original equipment belts. Consult **Repair Parts** section of this manual for proper parts.

To Replace Auger Drive Belt

1. Remove tension from belt by pulling idler pulley (figure 28) away from belt.
2. Roll belt off gear box pulley.
3. Remove belt off gear box.

Figure 28

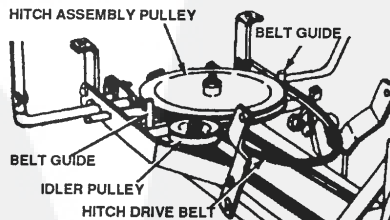


4. Install new belt in reverse order of removal. **NOTE:** Spring tension on idler may need to be adjusted as instructed in **Step 4 in To Assemble Snow Thrower Attachment to Hitch Assembly** paragraph in **Assembly** section of this manual.

To Replace Hitch Drive Belt

1. Loosen belt guides at engine pulley and roll belt off engine pulley.
2. Loosen belt guides at large pulley on hitch assembly (figure 29) and roll belt off hitch pulley. **NOTE:** It will be necessary to push idler pulley toward center of hitch assembly to allow belt to be removed from behind brake pad.
3. Install new belt in reverse order of removal. **NOTE:** Make sure belt is installed on inside (toward center) of idler pulley.

Figure 29



4. Reposition belt guides to within 1/16 inch of pulley and tighten securely.

5. If idler pulley (figure 26) has been moved, change back to looser position.

SHEAR BOLT REPLACEMENT

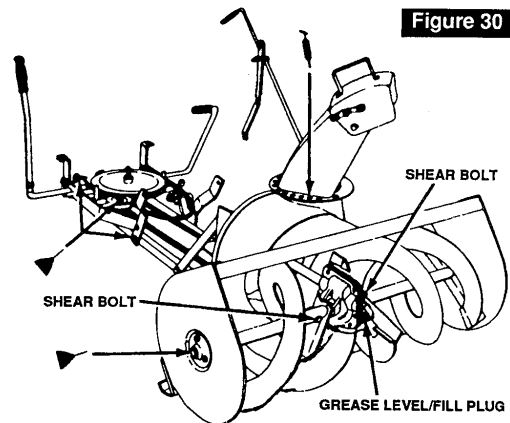
The auger assembly is made up of a right and left auger. Each is secured with a special bolt (figure 30) that acts as a shear bolt. These bolts are designed to break if an object becomes lodged in the auger. Two spare shear bolts and nuts have been furnished with your unit. If additional bolts are required, order genuine replacement bolts. Use of a harder bolt will destroy the protection provided by this special bolt. To replace a broken shear bolt, proceed as follows:

1. Remove the parts of the broken bolt
2. Align the hole in the auger with the hole in the auger shaft. Install new shear bolt.

LUBRICATION

1. Check crankcase oil level before starting engine and after each 5 hours of continuous use. Add engine oil as instructed in tractor/riding mower engine manual.

2. Check auger gear case oil level before each use by removing oil level plug as shown in figure 30. Oil should be visible in hole. If oil is required, remove oil fill plug and add SAE 30 engine oil until oil begins to run out of oil level hole. Reinstall plug and tighten securely.



▼ Apply SAE - 10W oil (or equivalent) to all pivot points every 5 hours or before each use.

↗ Remove discharge chute and coat flange with clinging type grease, once each season.

STORAGE

The snow thrower should be immediately prepared for storage at the end of the season or if the unit is to be un-used for 30 days, or more.

1. Clean the unit thoroughly; remove all debris and wipe the unit dry.
2. Inspect the snow thrower for worn or damaged parts, retighten all loose hardware.

3. Oil all points described in figure 29.

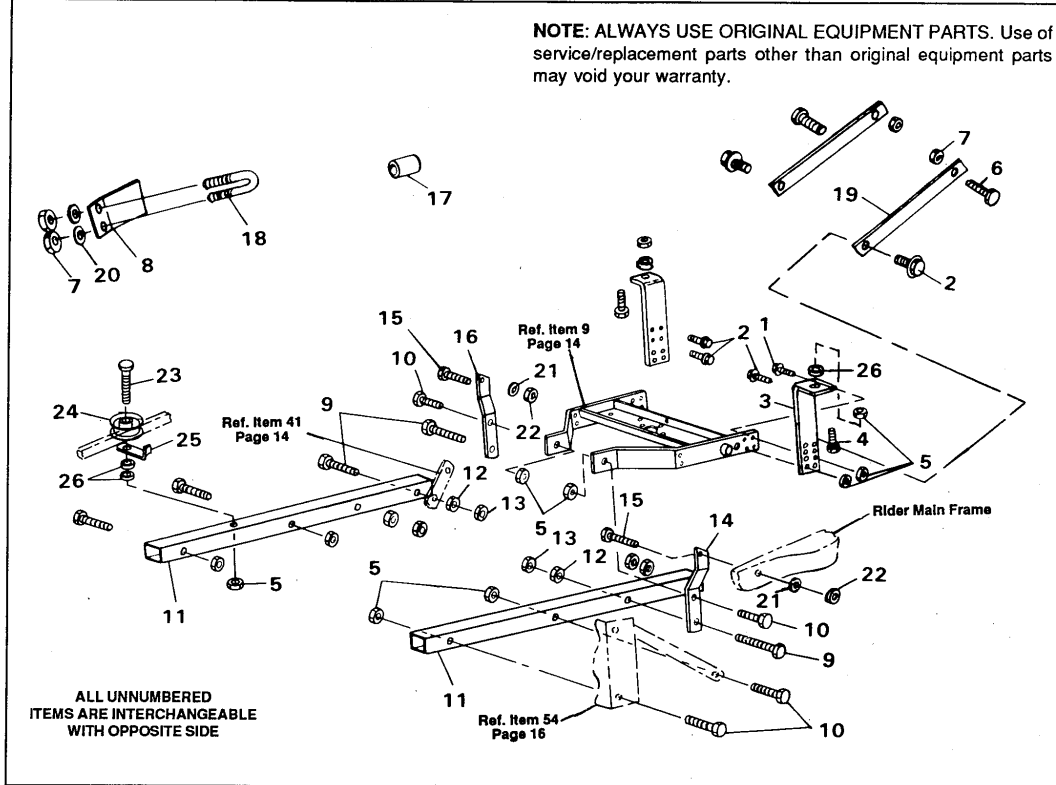
4. Store the snow thrower in a protected area and cover the unit for additional protection.

A yearly checkup by a qualified Service Dealer is a good way of insuring that your snow thrower will provide maximum performance for the next season.

REPAIR PARTS

36" SNOW THROWER ATTACHMENT MODEL 5705-04

NOTE: ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service/replacement parts other than original equipment parts may void your warranty.



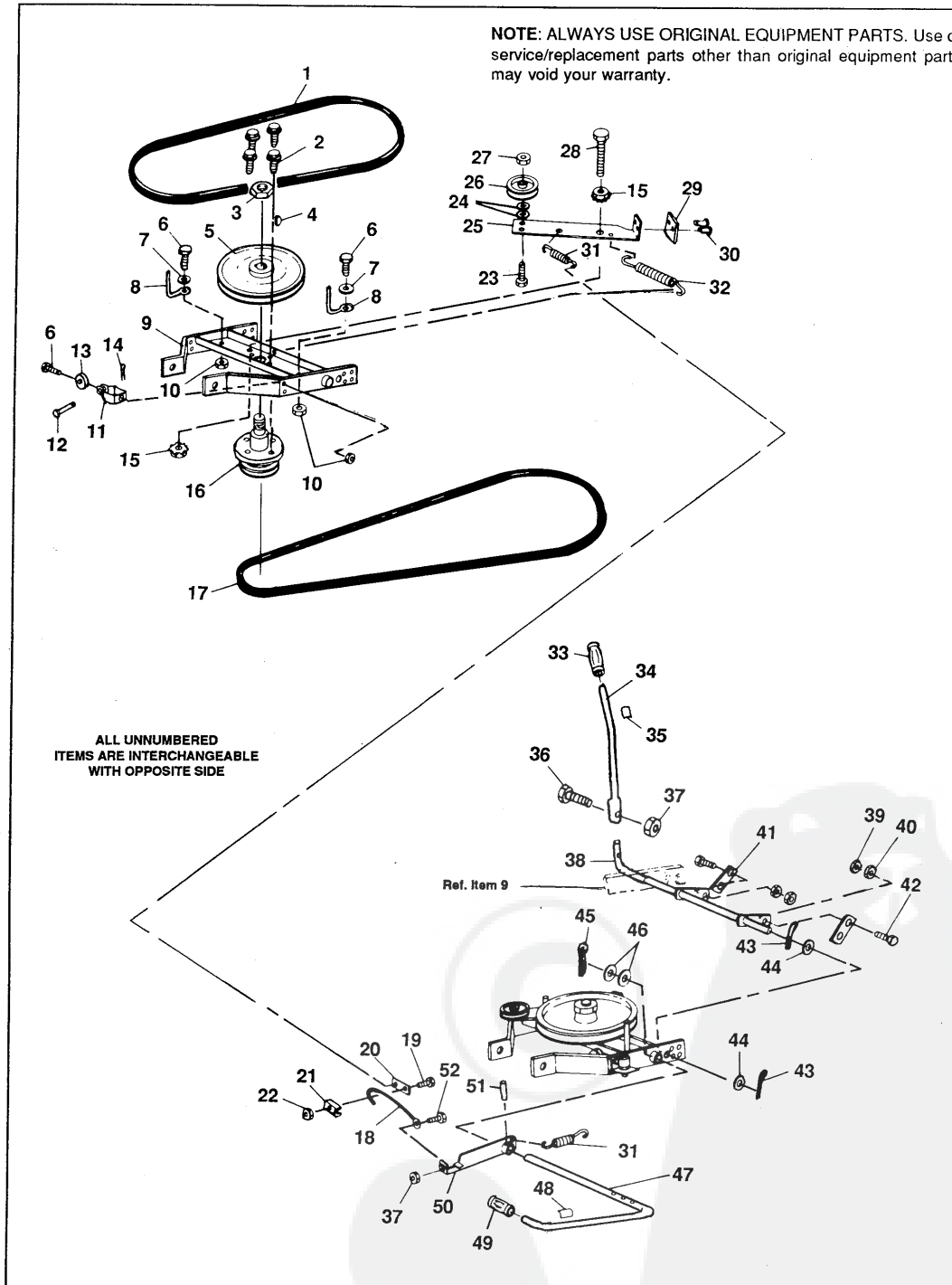
ALWAYS GIVE THE FOLLOWING INFORMATION WHEN ORDERING REPAIR PARTS:
 1. The PART NUMBER; 2. The PART NAME; 3. QUANTITY DESIRED; 4. The MODEL NUMBER (As shown on Model Plate).
 SEND PART ORDERS AS PER INSTRUCTIONS ON THE FRONT PAGE.
 YOUR UNIT IS RIGHT HAND (RH) OR LEFT HAND (LH) AS YOUR STAND BEHIND IT.
 DO NOT USE KEY NUMBERS WHEN ORDERING REPAIR PARTS, ALWAYS USE PART NUMBERS.
 All replacement parts will be supplied in current production colors or in a neutral color.
 A handling fee is applicable to small parts orders.

Key No.	Part No.	Description	Key No.	Part No.	Description
1	50947	Screw, Hex Wa. Hd, Tap, 3/8-16 x 1-1/4 In.	14	53237	Hanger, Front, L.H. (3 hole)
2	48148	Screw, Hex Wa Hd, Tap, 3/8-16 x 1 In.	15	122253	Screw, Hex Hd, 7/16-14 x 1 In.
3	56891	Hanger, Rear	16	301002	Hanger, Front, R.H. (7 hole)
4	180124	Screw, Hex Hd, 1/8-16 x 1-1/4 In.	16	53806	Hanger, Front, R.H. (3 hole)
5	9413534	Locknut, 3/8-16 Thd.	17	50774	Spacer, Axle Pivot
6	120229	Screw, Hex Hd, 5/16-18 x 7/8 In.	18	40124	U-Bolt
7	9413447	Locknut, 5/16-18 Thd.	19	52232	Brace
8	51064	Deflector, Exhaust	20	21882	Spacer
9	124180	Screw, Hex Hd, 1/2-20 x 2-1/2 In.	21	120383	*Lockwasher, Split, 7/16 In.
10	122181	*Screw Hex Hd, 3/8-16 x 2 In.	22	271501	Nut, Hex, 7/16-14 Thd.
11	301000	Tube, Lift	23	127949	Screw, Hex Hd, 3/8-16 x 3-3/4 In.
12	120371	*Nut, Hex, 1/2-20 Thd.	24	300920	Pulley
13	124934	Jam Nut, 1/2-20 Thd.	25	40304	Belt Retainer
14	301001	Hanger, Front, L.H. (7 hole)	26	301006	Spacer
			27	305838	Manual, Instruction (Not Illustrated)

(*) Standard Hardware Items - May Be Purchased Locally.

36" SNOW THROWER ATTACHMENT MODEL 5705-04

NOTE: ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service/replacement parts other than original equipment parts may void your warranty.

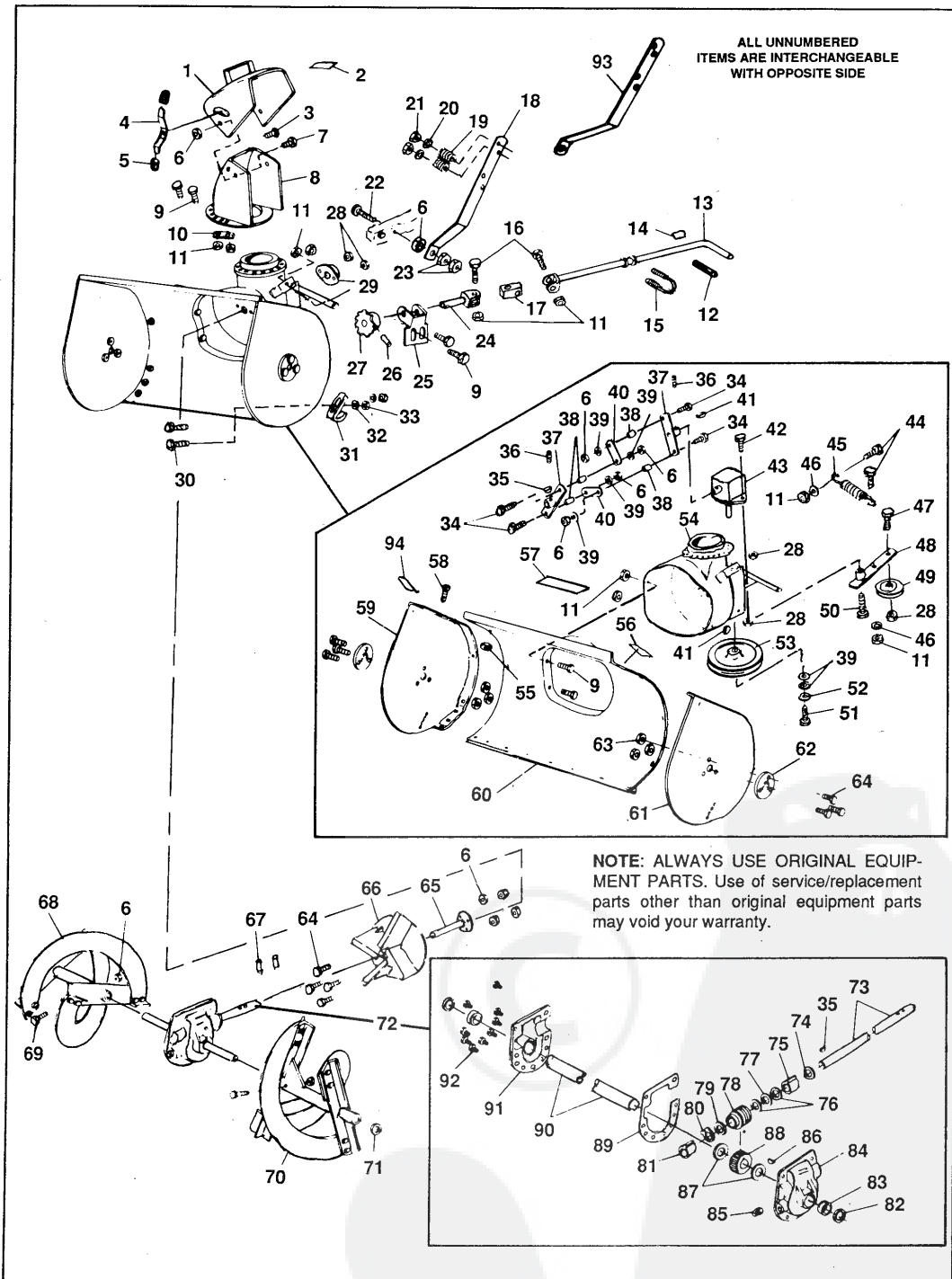


36" SNOW THROWER ATTACHMENT MODEL 5705-04

Key No.	Part No.	Description	Key No.	Part No.	Description
1	50931	V-Belt, 52 3/8 In.	26	46476	Pulley, Idler
1	57800	V-Belt, 51 In. (39" Deck)	27	9413534	Locknut, 3/8-16 Thd.
2	50634	Screw, Hex Wa Hd, Taptite 5/16-18 x 7/8 In.	28	120918	*Screw, Hex Hd, 3/8-16 x 1-1/2 In.
3	42445	Nut, Ja, 5/8-18 Thd	29	50822	Brake Pad
4	3021	Key, Woodruff No 606	30	47751	Rivet, 11/64 x 3/8 In.
5	50762	Pulley, Upper Quill	31	42694	Spring, 3 In.
6	122007	*Screw, Hex Hd, 5/16-18 x 3/4 In.	32	43484	Spring, 3-3/4 In.
7	120393	Flatwasher	33	8240	Grip, Hand
8	50902	Belt Guide	34	53808	Handle, Lower Lift
9	50831	Quill Tray & Slide Frame Assy.	35	68570	Decal, Lift Handle
10	9413447	Locknut, 5/16-18 Thd.	36	121920	*Screw, Hex Hd, 1/4-20 x 1-3/8 In.
11	49320	Support, Clutch Cable Pulley	37	9424215	Locknut, 1/4-20 Thd.
12	49332	Pin, 3/8 x 1 In.	38	50785	Lift Handle Assembly
13	39298	Pulley, Clutch Cable	39	124934	Nut, Jam, 1/2-20 Thd.
14	121222	*Cotter Pin, 3/32 x 3/4 In.	40	120371	*Nut, Hex, 1/2-20 Thd.
15	271190	Nut, Keps, 3/8-16 Thd.	41	50751	Lift Link
16	50840	Quill Assembly	42	120235	*Screw, Hex Hd, 1/2-20 x 1-3/4 In.
17	50935	V-Belt, 76-5/8 In.	43	51367	Hairpin Cotter, 1/4 x 1-1/4 In.
18	50745	Cable, Clutch	44	642	Washer, 3/4 In. I.D.
19	431942	Screw, Hex Hd, No. 10-32 x 1/2 In.	45	8260	Hairpin Cotter, 3/32 x 1-5/8 In.
20	50907	Strap, Cable	46	131016	*Washer, 21/32 In. I.D.
21	27521	Clip	47	50783	Clutch Pedal
22	997319	Locknut, No. 10-32 Thd.	48	68569	Decal, Clutch Pedal
23	122168	*Screw, Hex Hd, 3/8-16 x 1-3/4 In.	49	2540	Grip, Clutch Pedal
24	274517	*Washer, 3/8 In. I.D.	50	50875	Clutch Lever Assembly
25	50941	Clutch & Brake Arm Assembly (Includes Items 29 & 30)	51	9421950	Spiral Pin, 1/4 x 1 In.
			52	120854	*Screw, Hex Hd, 1/4-20 x 5/8 In.

(* Standard Hardware Items - May Be Purchased Locally.

36" SNOW THROWER ATTACHMENT MODEL 5705-04



36" SNOW THROWER ATTACHMENT MODEL 5705-04

Key No.	Part No.	Description	Key No.	Part No.	Description
1	48384	Chute Assembly, Upper	49	46476	Pulley, idler
2	69891	Decal, Warning	50	47516	Shoulder Bolt
3	998010	*Carriage Bolt, 5/16-18 x 3/4 In.	51	120229	*Screw, Hex Hd, 5/16-18 x 7/8 In.
4	39120	Wing nut	52	120638	*Washer, Split, 5/16 In. I.D.
5	70142	Decal, Danger, Chute	53	49368	Pulley
6	9413447	Locknut, 5/16-18 Thd.	54	50842	Rear Hard Assembly
7	120834	*Screw, Hex Hd, 5/16-18 x 3/4 In.	55	51335	Locknut, Wide Flange, 1/4-20 Thd.
8	47260	Chute Assembly, Lower	56	70141	Decal, Danger, Auger
9	180016	Screw, Hex Hd, 1/4-20 x 1/2 In.	57	68568	Decal, Caution
10	47240	Clip, Chute	58	36602	Carriage bolt, 1/4-20 x 5/8 In.
11	9424215	Locknut, 1/4-20 Thd.	59	48216	Auger Housing End, R.H.
12	48441	Grip, Chute Control Rod	60	50830	Auger Cover & Scraper Assembly
13	50847	Chute Crank Assembly, Upper	61	48217	Auger Housing End, L.H.
14	67194	Decal, Chute Crank	62	54424	Bearing
15	23940	U-Bolt	63	44108	Locknut, Wide Flange, 5/16-18 Thd.
16	180022	Screw, Hex Hd, 1/4-20 x 1 In.	64	180077	Screw, Hex Hd, 5/16-18 x 3/4 In.
17	47323	Pivot Block	65	51681	Impeller Shaft Assembly
18	50815	Support, Chute Crank, Upper (small bend)	66	47256	Impeller Assembly
19	23939	Spring	67	454565	Spring Pin, 1/4 x 1-1/4 In.
20	9417373	*Washer, 13/64 In I.D.	68	51654	Auger Assembly, R.H.
21	997319	Locknut, No. 10-32 Thd.	69	50679	Shear Bolt
22	997896	*Screw, Hex Hd, 5/16-18 x 1-1/2 In.	70	51655	Auger Assembly, L.H.
23	120376	*Nut, Hex, 5/16-18 Thd.	71	21970	Flatwasher, 1 In. I.D.
24	50848	Chute Crank Assembly, Lower	72	50824	Gear Case Assembly
25	50285	Bracket, Chute Control Rod, Lower	73	50747	Shaft, Gear Box, Long
26	455481	Roll Pin, 3/16 x 1 In.	74	24274	Oil Seal
27	48395	Sprocket, 9 Tooth	75	48274	Bearing, Input, Rear
28	9413534	Locknut, 3/8-16 Thd.	76	48275	Washer, Thrust
29	53266	Bearing, Impeller	77	32397	Bearing, Needle
30	126358	*Carriage Bolt, 5/16-18 x 1 In.	78	47787	Worm Gear
31	25091	Skid	76	21682	Spring Washer
32	446363	*Washer, 3/8 In. I.D.	80	21681	Ring, Retaining
33	271184	Keps Nut, 5/16-18 Thd.	81	48273	Bearing, Input, Front
34	122027	*Screw, Hex Hd, 5/16-18 x 1-1/4 In.	82	21922	Oil Seal
35	3021	Key, Woodruff, No. 606	83	48269	Bearing
36	998505	Set Screw, All Hd, 1/4-20 x 3/8 In.	84	56249	Gear Case Assembly, L.H. (Includes Items 82 & 83)
37	50893	Ear & Hub Assembly	85	23700	Pipe Plug
38	50757	Bushing, Pad	86	21684	Key, Hi-Pro
39	9418924	Washer	87	48271	Washer, Thrust
40	50749	Pad, Coupler	88	47801	Gear, Bronze
41	431787	Key, Woodruff, No. 61	89	48270	Gasket, Gear Case
42	120233	*Screw, hex Hd, 3/8-18 x 1 In.	90	50748	Shaft, Gear Box, Short
43	Gearbox	** Peerless Model 2690-P91	91	56250	Gear Case Assembly, R.H. (Includes Items 82 & 83)
44	121887	*Screw, hex Hd, 1/4-20 x 3/4 In.	92	35498	Screw, Taptite, 5/16-18 x 3/4 In.
45	43484	Spring, 3-3/4 In.	93	53222	Support, Chute Crank, Upper (large bend)
46	120385	*Washer, 1/4 In. I.D.			
47	122162	Screw, Hex Hd, 3/8-16 x 1-5/8 In.			
48	50841	Idler Arm Assembly			

(*) Standard Hardware Items - May Be Purchased Locally.