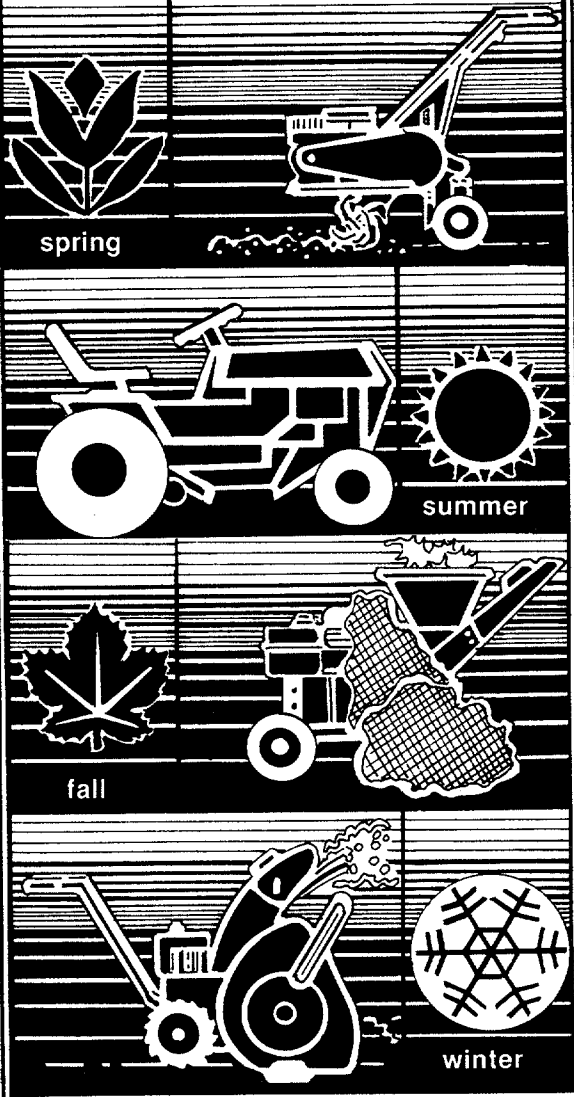


OWNER'S GUIDE

OUTDOOR POWER EQUIPMENT
for all seasons



26" and 33" SNOW THROWERS

Model Numbers
315-800-000
315-860-000
315-960-000

Important:
Read Safety Rules and
Instructions Carefully

Thank you for purchasing
an American-built product.

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Instructions given with this symbol are for personal safety. Be sure to follow them.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

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



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR SNOW THROWERS

TRAINING

1. Read this Owner's manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate equipment. Never allow adults to operate equipment without proper instructions.
3. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
4. Keep the area of operation clear of all persons, especially small children and pets.
5. Exercise caution to avoid slipping or falling, especially when operating in reverse.
5. Stop engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and making any repairs, adjustments, or inspections.
6. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachment, shift into neutral, set the parking brake, stop the engine, and remove the key.
7. When cleaning, repairing, or inspecting, make certain collector/impeller and all moving parts have stopped. Disconnect spark plug wire and keep away from plug to prevent accidental starting.
8. Do not run engine indoors, except when starting engine and transporting snow thrower in or out of building. Open doors. Exhaust fumes are dangerous.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
2. Disengage all clutches and shift into neutral before starting engine.
3. Do not operate equipment without wearing adequate winter outer garments. Wear footwear which will improve footing on slippery surfaces.
4. Handle fuel with care. It is highly flammable.
 - (A) Use approved fuel container.
 - (B) Never add fuel to a running engine or hot engine.
 - (C) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - (D) Replace gasoline cap securely and wipe up spilled fuel.
5. Use a grounded three wire plug-in for all units with electric drive motors or electric starting motors.
6. Adjust collector housing height to clear gravel or crushed rock surface.
7. Never attempt to make any adjustments while engine is running (except where specifically recommended by manufacturer).
8. Let engine and machine adjust to outdoor temperature before starting to clear snow.
9. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
10. Never operate snow thrower without guards, plates, or other safety protection devices in place.
11. Never operate snow thrower near glass enclosure, automobiles, window wells, drop off, etc., without proper adjustments of snow thrower discharge angle. Keep children and pets away.
12. Do not overload machine capacity by attempting to clear snow at too fast a rate.
13. Never operate machine at high transport speeds on slippery surfaces. Use care when backing.
14. Never direct discharge at bystanders or allow anyone in front of unit.
15. Disengage power to collector/impeller when transporting or not in use.
16. Use only attachments and accessories approved by the manufacturer of snow thrower (such as wheel weights, counter weights, cabs, 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.

OPERATION

1. Do not put hands or feet near rotating parts. Keep clear of 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. Do not carry passengers.
3. After striking a foreign object, stop the engine, remove wire from spark plug, and thoroughly inspect the snow thrower for any damage. Repair the damage before restarting and operating the snow thrower.
4. If the snow thrower should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

MAINTENANCE AND STORAGE

1. Check shear bolts, engine mounting bolts, etc., at frequent intervals for proper tightness to be sure equipment is in safe working condition.
2. Never store machine with fuel in the fuel tank inside a building where open flame or spark are present. Allow engine to cool before storing in any enclosure.
3. Always refer to owner's guide instructions for important details if snow thrower is to be stored for an extended period.
4. Run machine a few minutes after throwing snow to prevent freeze up of collector/impeller.

NOTE

This owner's manual covers various models of snow throwers. The unit illustrated may be different than your unit.

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

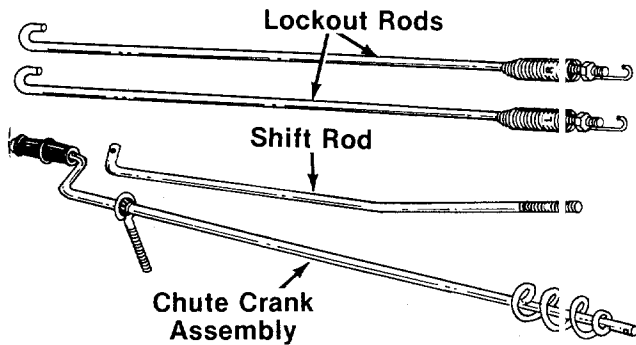


FIGURE 1.

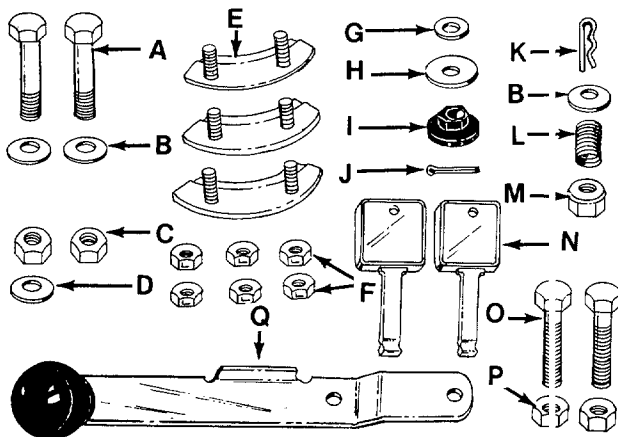


FIGURE 2.

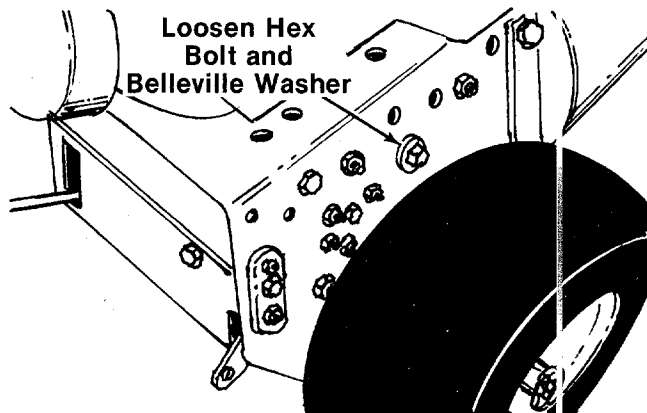


FIGURE 3.

ASSEMBLY

NOTE

Reference to right hand or left hand side of machine is observed from the operating position.

Tools Required for Assembly:

- 9/16" Wrench
- 1/2" Wrench
- 7/16" Wrench
- or One Adjustable Wrench

Loose Parts in Carton:

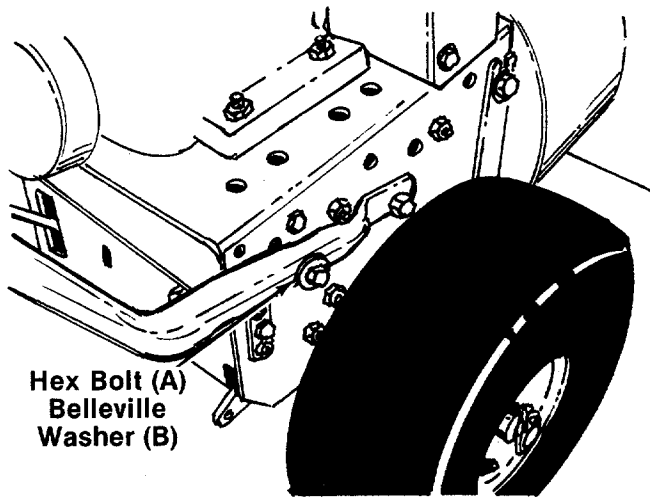
- (1) Handle Assembly
- (1) Chute Assembly
- (1) Parts taped together which include:
 - (1) Drive Clutch Rod Assembly
 - (1) Auger Rod
 - (1) Shift Rod
 - (1) Chute Crank Assembly

Contents of Hardware Pack:

- A (2) Hex Bolts 3/8-16 x 2" Long
- B (3) Belleville Washers 3/8" I.D.
- C (2) Hex Nuts 5/16-18 Thread
- D (1) Belleville Washer 5/16" I.D.
- E (3) Chute Flange Keepers
- F (6) Hex Lock Nuts 1/4-20 Thread
- G (1) Flat Washer 3/8" I.D. x 5/8" O.D.
- H (1) Large Flat Washer
- I (1) Hex Bushing
- J (1) Cotter Pin
- K (1) Hairpin Cotter
- L (1) Compression Spring
- M (1) Elastic Lock Nut 3/8-24 Thread
- N (2) Ignition Keys
- O (2) Hex Bolts 5/16-18 x 1 3/4" Long*
- P (2) Hex Lock Nuts 5/16-18 Thread*
- Q (1) Shift Lever

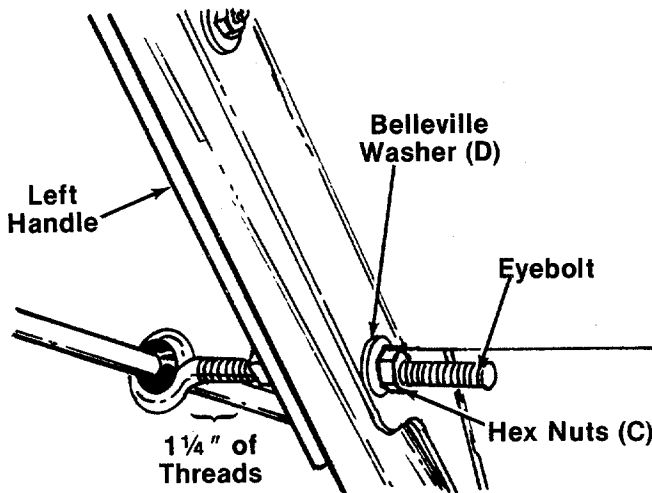
*The augers are secured to the spiral shaft with two hex bolts and hex lock nuts (see ref. nos. 40 and 50 on page 24). If you hit a foreign object or ice jam, the snow thrower is designed so that the hex bolts will shear. Two replacement hex bolts and nuts are provided in the hardware pack for your convenience. Store in a safe place until needed.

1. Remove snow thrower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Extend throttle control assembly which is attached to engine at rear of the snow thrower and place on floor. Be careful not to bend or kink control wire.
3. To assemble the handle, loosen one self-tapping screw and belleville washer on each side of the unit. See figure 3. A 9/16" wrench or adjustable wrench is required.



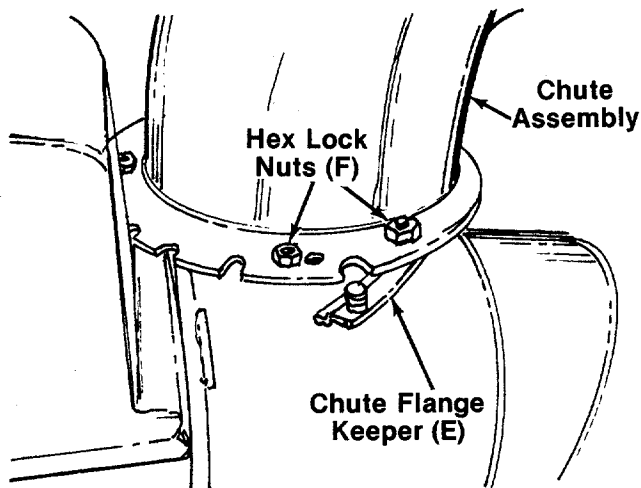
4. Slide the slotted end of the handles under the belleville washers on the self-tapping screws which were loosened in step 3.
5. Secure the upper hole in the handles with belleville washers (B) (cupped side against the handles) and hex bolts (A). See figure 4. Do not tighten at this time.

FIGURE 4.



6. Thread one hex nut (C) onto the eyebolt on the chute crank assembly until there is approximately 1 1/4" of threads showing between the nut and the head of the eyebolt. See figure 5.
7. Place the eyebolt into the hole in the left handle and handle panel. See figure 5. Secure with belleville washer (D) (cupped side against the handle panel) and hex nut (C). Tighten securely.
8. Tighten securely all bolts and nuts on the handle panel and all four bolts which secure the handles to the frame.

FIGURE 5.



9. Grease the chute opening.
10. Place chute assembly over chute opening, with the chute facing the front of the unit. Place chute flange keepers (E) beneath lip of chute assembly. Secure with hex lock nuts (F) as shown in figure 6. Tighten with a 7/16" wrench, then back off 1/4 turn to allow easier movement.

FIGURE 6.

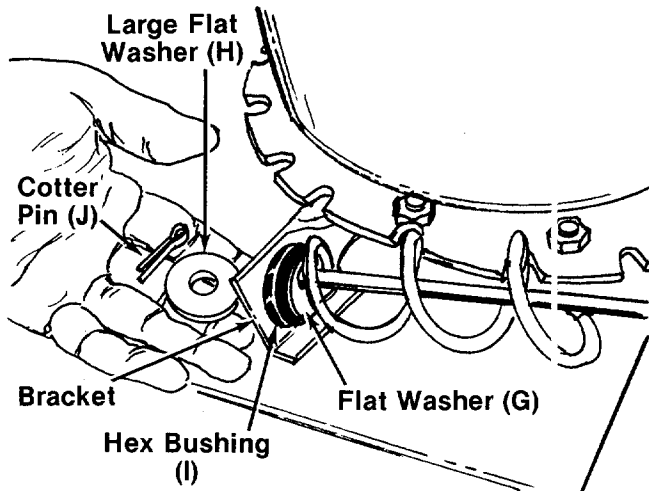


FIGURE 7.

11. Place hex bushing (I) into bracket beside the chute assembly. Position the hex bushing so the hole in the bushing is close to the chute assembly. See figure 7.
12. Place flat washer (G) on the end of the chute crank. Insert the chute crank into the hole in the hex bushing so that the spiral on the chute crank engages the teeth on the chute assembly. Place large flat washer (H) on the end of the chute crank. Insert cotter pin (J) into hole in the end of chute crank. Secure by bending the ends of cotter pin in opposite directions.

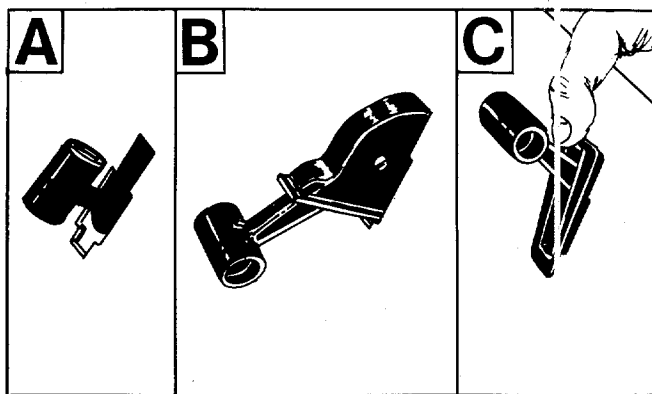


FIGURE 8.

13. Assemble the throttle control to the handle panel as follows.
 - A. Hold the throttle control assembly beneath the handle panel. Turn the control sideways and insert the lever up through the wide portion of the slot on the handle panel. See figure 8A.
 - B. After the end of the lever is through the slot, turn and then tip the control forward as shown in figure 8B to slide it through the slot.



The lever must be all the way to the back of the control housing as shown in figure 8B.

- C. Push the control back into the slot in the handle panel and press in place. Be certain the control is locked securely into the slot.

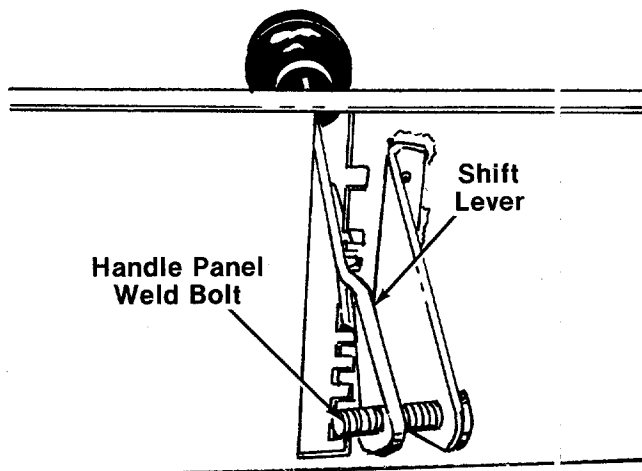


FIGURE 9.

14. Place shift lever (Q) through slot in handle panel, making sure flared edge of shift lever faces the detents on handle panel. Place the hole in the end of the shift lever over the handle panel weld bolt. See figure 9.

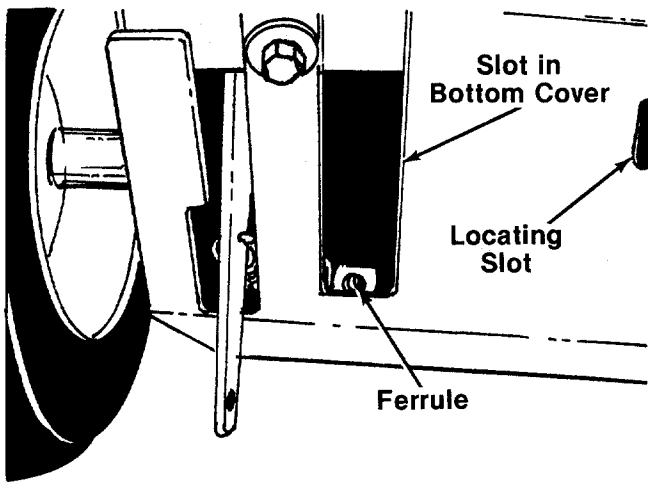


FIGURE 10.

15. Place the shift rod through the slot in the bottom frame cover. Thread rod into ferrule. See figure 10.

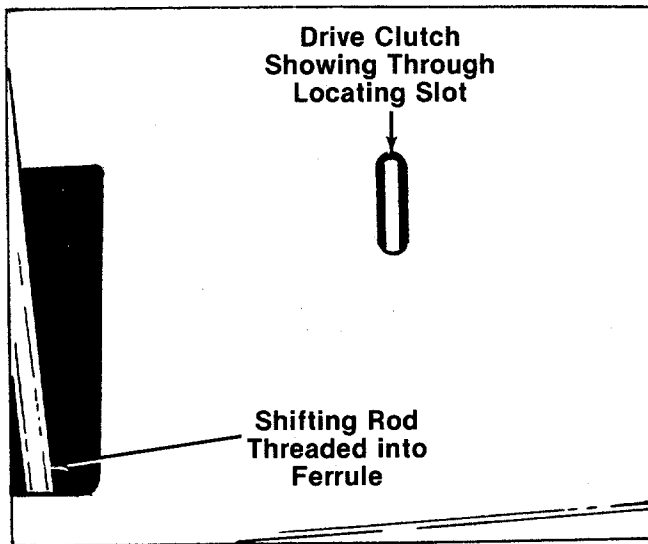


FIGURE 11.

16. Move the shifting rod up or down until the drive clutch bracket shows in the locating slot. See figures 10 and 11.

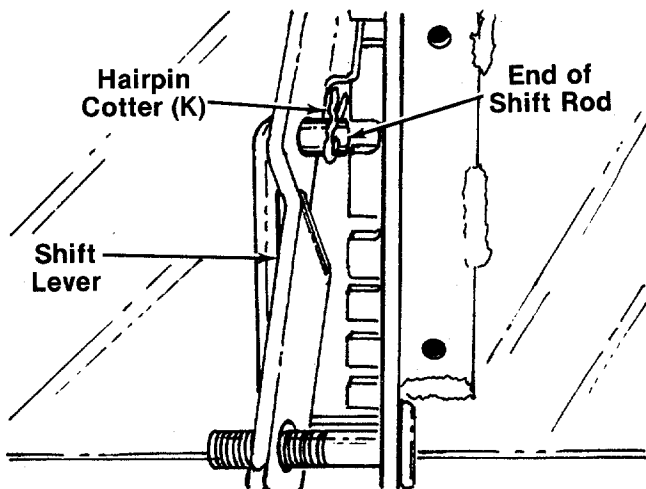


FIGURE 12.

17. Place the shift lever in neutral (N) position. Screw the shift rod in or out until it fits into the hole in the shift lever (drive clutch must still be showing in the locating slot). When shift rod is adjusted to the correct length, insert the end into the hole in the shift lever. Secure with hairpin cotter (K) as shown in figure 12.

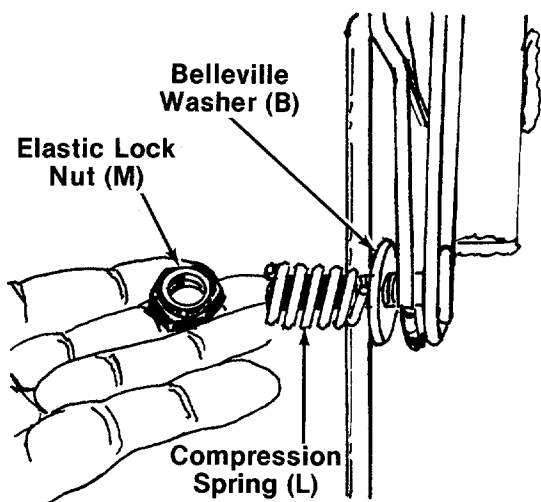


FIGURE 13.

18. Secure with belleville washer (B) (cupped side goes against shift lever), compression spring (L) and elastic lock nut (M). See figure 13. Tighten lock nut until compression spring holds the shift lever into detent slot on handle panel.

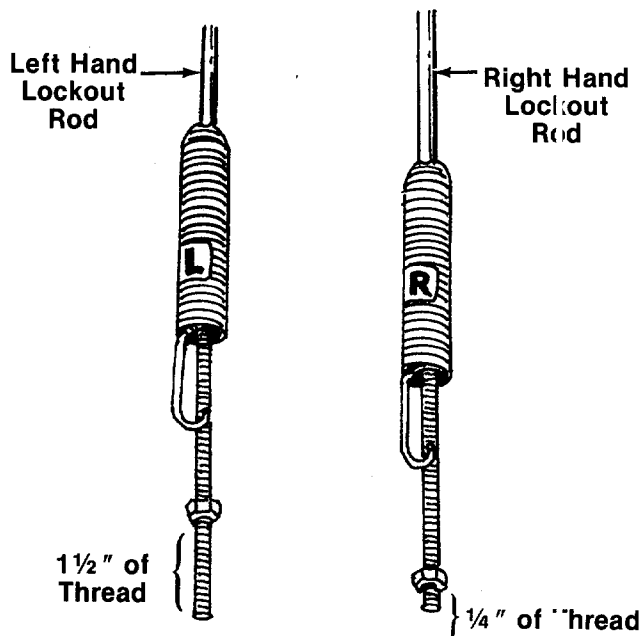


FIGURE 14.

19. The lockout rods are labeled "L" and "R" for the left and right hand sides of the unit. **Approximate** initial settings for the lockout rods are as follows: The left hand lockout rod for the drive clutch should have approximately 1½ inches of thread showing below the nut. The right hand lockout rod for the auger clutch should have approximately ¼ inch of thread showing below the nut. See figure 14. **FINAL ADJUSTMENT MUST BE MADE AS DESCRIBED IN STEPS 21 AND 22.** If the left hand lockout rod is not adjusted correctly, the shift lever cannot be shifted past neutral. If the right hand lockout rod is not adjusted correctly, the augers will not stop rotating.

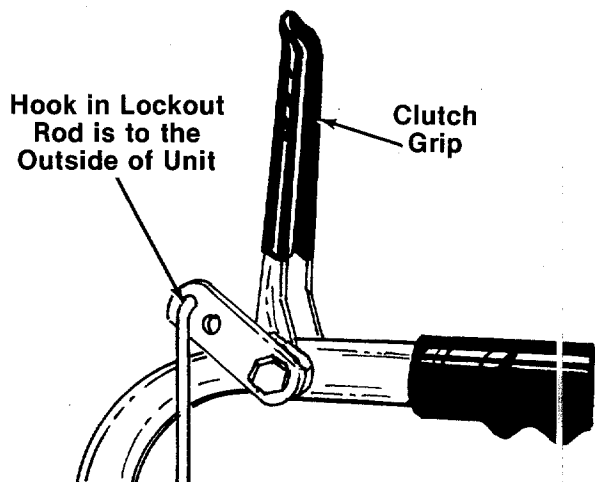


FIGURE 15.

20. Hook the right hand lockout rod (labeled "R") into the hole provided in the right hand clutch grip (auger clutch). Hook the left hand lockout rod (labeled "L") to the left hand clutch grip (drive clutch). See figure 15. The hook is to the outside of the unit.

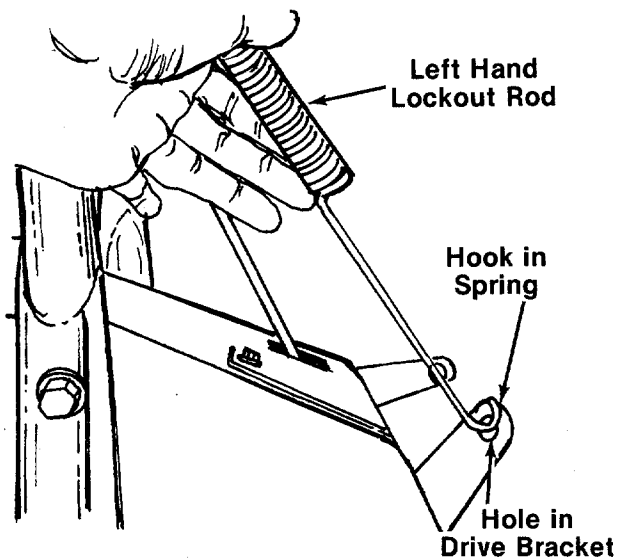


FIGURE 16.

21. Swing the left hand lockout rod down and simply hold it beside the drive bracket. **Do not** pull on spring. **Do not** move bracket. **The hook on the end of the spring must line up with the center of the hole in the drive bracket.** See figure 16.

If it does not, adjust the nut on the lockout rod until the hook on the spring aligns with the hole in the bracket as shown in figure 16.

Hook spring into drive bracket. See figure 17.

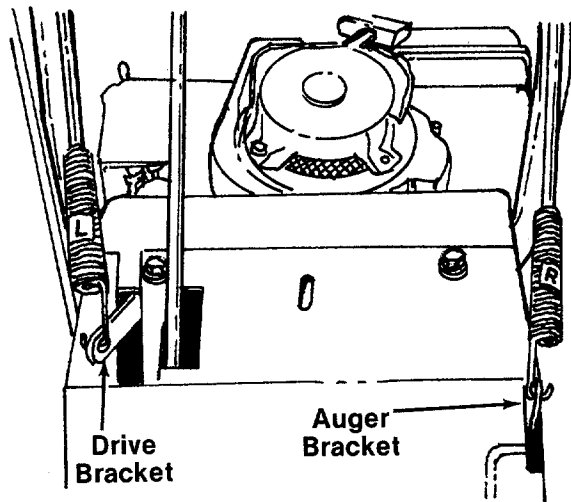


FIGURE 17.

22. Adjust the right hand lockout rod in the same manner as the left hand lockout rod. Refer to Step 21. When adjustment is correct, hook the spring into the auger bracket. See figure 17.

PNEUMATIC TIRE PRESSURE

The tires are over inflated for shipping purposes. Check pressure and reduce to 15 to 20 p.s.i.



If the tire pressure is not equal in both tires, the unit may pull to one side or the other.

OPERATION

CONTROLS

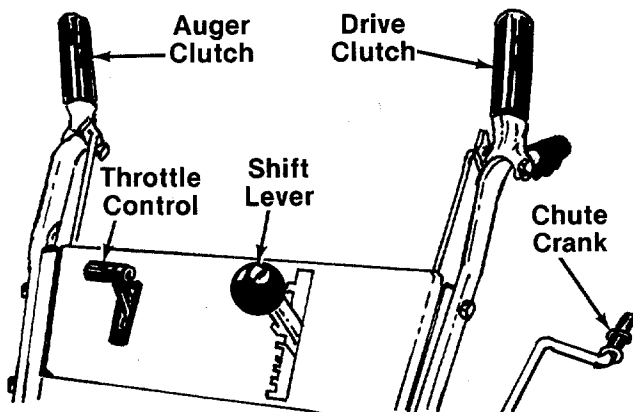


FIGURE 18.

Shift Lever (See figures 18 and 19)

The shift lever is located on the left hand side of handle panel. The shift lever may be moved into one of eight positions. Run engine with throttle in the fast position. Use the shift lever to determine ground speed.

- a. Center position (N)—“NEUTRAL.”
- b. Forward position—One of five (5) forward speeds. Position number one (1) is the slowest. Position number five (5) is the fastest.
- c. Rear position—Two reverse (R) speeds. “R” nearest the neutral (N) position is the slower of the two.

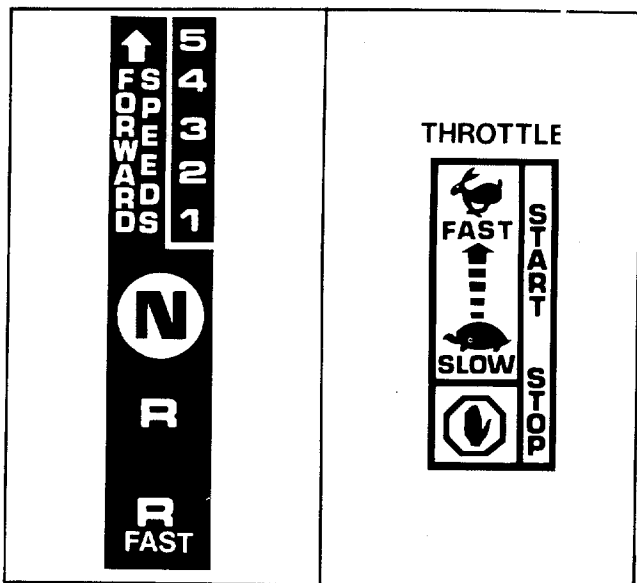


FIGURE 19.

FIGURE 20.

Throttle Control (See figures 18 and 20)

The throttle control is located on the right hand side of the handle panel. It regulates the speed of the engine.

Drive Clutch (See figure 18)

The drive clutch is located on the left handle. Squeeze the clutch grip to engage drive. Release to stop.

Auger Clutch (See figure 18)

The auger clutch is located on the right handle. Squeeze the clutch grip to engage the augers. Release to stop the snow throwing action.

Chute Crank (See figure 18)

The chute crank is located on left hand side of the snow thrower.

To change the direction in which snow is thrown, turn chute crank as follows:

1. Crank clockwise to discharge to the left.
2. Crank counterclockwise to discharge to the right.

Safety Ignition Switch (See figure 21)

The ignition key must be inserted in the switch before the unit will start. Remove the ignition key when snow thrower is not in use.

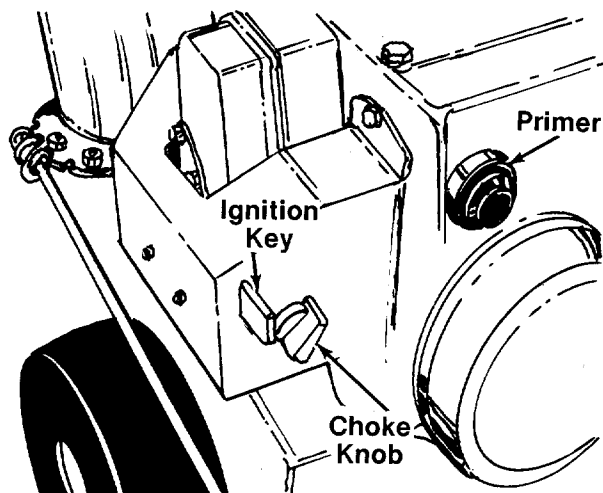


FIGURE 21.

STARTING INSTRUCTIONS

1. Remove dipstick. Fill crankcase with oil. Oil level must be to full mark on dipstick. Refer to separate engine manual packed with your snow thrower.
2. Fill fuel tank with fresh, clean **regular** gasoline.



WARNING

Never fill fuel tank indoors, with engine running or while engine is hot.

3. Attach spark plug wire to spark plug.
4. Insert ignition key (do not turn).
5. Place shift lever in "NEUTRAL" (N) position.
6. Place throttle control in "START" (fast) position.



WARNING

Never run engine indoors or in enclosed poorly vented area. Engine exhaust gases contain carbon monoxide: an odorless and deadly gas.

7. Start engine, following appropriate instructions:
 - A. Cold engine start (engine has not been run recently).
 1. Turn choke knob to "full" position. See figure 21.
 2. Push primer two (2) or three (3) times. See figure 21.



Additional priming may be required (for initial start only) if temperature is below 15°F.

3. Grasp the starter rope handle and pull out rapidly. Return rope handle slowly. Repeat until engine starts. If engine fails to start, repeat steps 2 and 3 as necessary until engine starts.
 4. After engine starts, turn choke gradually to "OFF" position.
- B. Warm engine start (engine still warm from recent running).
1. Grasp the starter rope handle and pull out rapidly. Return rope handle slowly. Repeat until engine starts.
 2. If engine fails to start after a number of attempts, choke engine. Repeat step one until engine starts. After engine starts, turn choke knob off gradually.



After the snow blower has been in operation, caution should be exercised in the area of the muffler and surrounding surfaces.

TO STOP ENGINE



Run engine for a few minutes before stopping to help dry off any moisture which may have accumulated on the recoil starter.

1. Move throttle control lever to "STOP" position or pull out ignition key.
2. **Remove ignition key** to prevent accidental starting.



Disconnect spark plug wire from spark plug and secure it so that it cannot accidentally contact spark plug. Observing this precaution will reduce the possibility of unauthorized starting of engine while equipment is unattended.

TO ENGAGE DRIVE

1. With the engine running near top speed, move shift lever into one of the five forward positions or two reverse positions. Select a speed appropriate for the snow conditions that exist. Use the slower speeds until you are familiar with the operation of the snow thrower.
2. Squeeze the drive clutch grip (located on the left handle) and the snow thrower will move. Release it and the drive motion will stop.



NEVER move shift lever without first releasing the drive clutch.

ADJUSTMENTS



NEVER attempt to clean chute or make any adjustments while engine is running.

CHUTE ASSEMBLY ADJUSTMENT

The distance snow is thrown can be changed by adjusting the angle of the chute assembly. The sharper the angle, the shorter the distance snow is thrown. See figure 22.

To adjust chute assembly, loosen the hand knob. Pivot the top of the chute assembly to position desired. Retighten the hand knob.

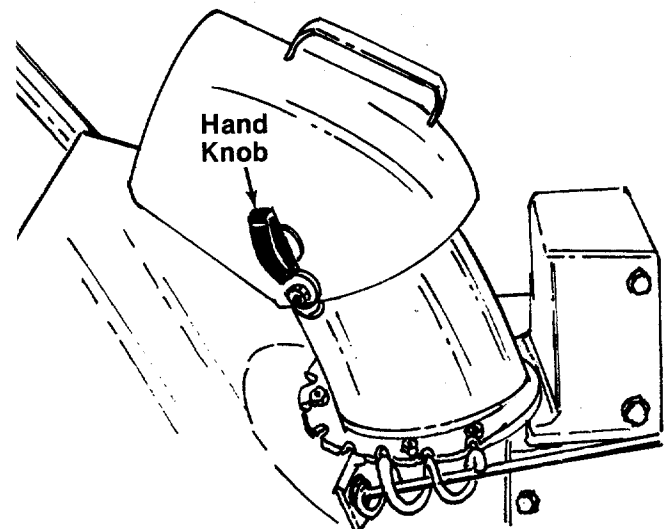


FIGURE 22.

SKID SHOE ADJUSTMENT

The space between the shave plate and the ground can be adjusted for close snow removal by placing skid shoes in the low position. Use middle or high position when area to be cleared is uneven. See figure 23.

To adjust skid shoes, loosen the four hex nuts and carriage bolts. Move skid shoes to desired position. Retighten nuts and bolts securely.

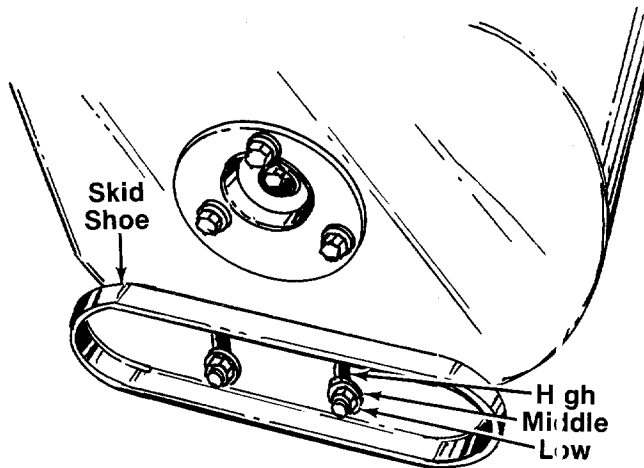


FIGURE 23.

THROTTLE CONTROL ADJUSTMENT

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine. See figure 24.
2. Move throttle control lever on handle panel to "FAST" position.
3. Move control lever on engine to full open position. Retighten screw to secure throttle control wire assembly.

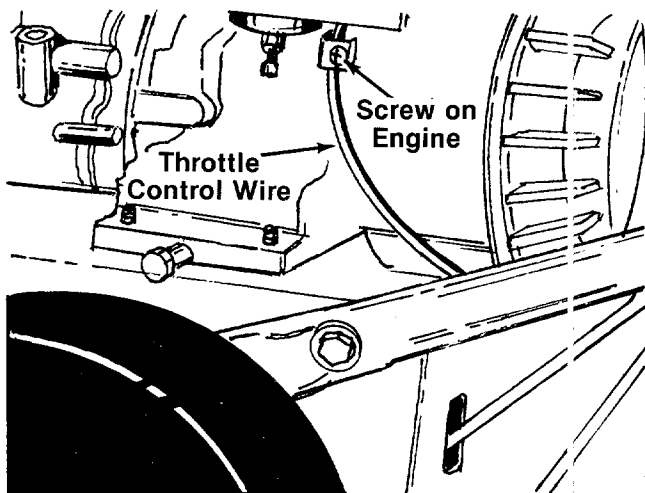


FIGURE 24.

CARBURETOR ADJUSTMENT



If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

Refer to the separate engine manual packed with your unit for carburetor adjustment information.

DRIVE WHEELS (Model 800)

The wheels on the model 800 snow thrower may be adjusted for three different methods of operation. The adjustment is made by placing the klick pins in one of two different holes on each side of the unit. See figure 25.

1. Free Wheeling Operation—Place both klick pins in the outside hole in the axle. This position allows easier movement when the engine is not running.
2. Both Wheels Driving—Place both klick pins in the hole in the hub next to the rim. This position is good for heavy snow as there is power drive in both wheels.
3. One Wheel Driving—Place klick pin in the outside axle hole on one side and in the hole in the hub next to the rim on the other. This position gives power drive to one wheel only, making the unit easier to maneuver.

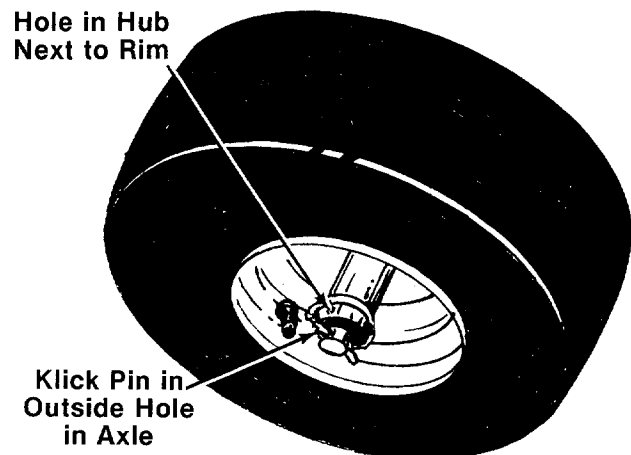


FIGURE 25.

DRIVE WHEELS (Models 860 and 960)

Snow throwers model 860 and 960 are equipped with a differential which makes the unit easy to maneuver. It may be adjusted for two different methods of operation. The adjustment is made by placing the klick pins in one of two different holes on each side of the unit. See figure 25.

1. Differential Action—Place klick pin in the outside hole in the axle. This position allows easy maneuvering when blowing light to medium snow.
2. Straight Axle Action—Place klick pin in the hole in the hub next to the rim on the right wheel. This position should be used when blowing heavy snow or when greater traction

is needed (icy surfaces, etc.). The unit will be more difficult to maneuver.

DRIVE AND AUGER CLUTCH ADJUSTMENTS

To adjust the drive or auger clutch, unhook the spring from the drive or auger bracket. Refer to steps 21 and 22 under Assembly Instructions for proper adjustment.

SHIFT ROD ADJUSTMENT

To adjust the shift rod, place the shift lever in neutral. Remove the cotter pin which secures the shift rod to the shift lever. Adjust as specified in step numbers 16 and 17 under Assembly Instructions.

LUBRICATION

SPECIFICATIONS:

Lubricate once a season or after every 25 hours of operation.

Oil—Use SAE 30 or equivalent.

Grease—Use automotive multi-purpose grease.

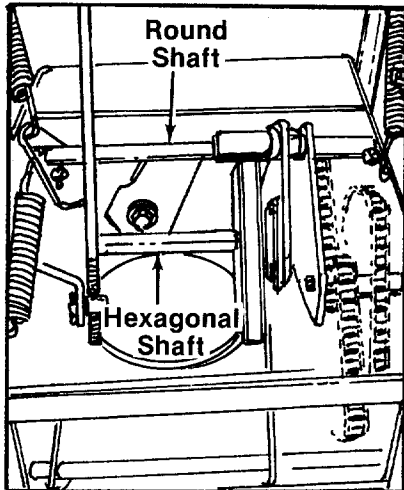
Lubricate chain once a season with engine oil.

Engine—Remove oil fill plug and add oil until it is to full mark on dipstick.

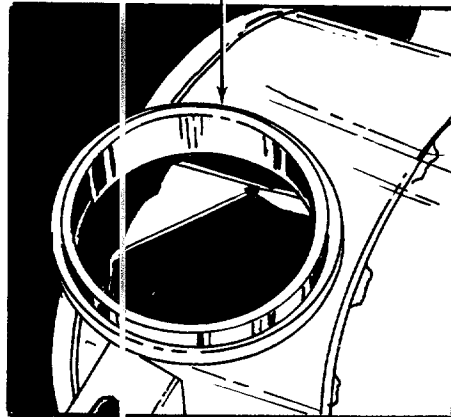
Change Oil—After first two (2) hours of operation and every twenty-five (25) hours thereafter. Drain oil from oil drain plug.

Use viscosity grade SAE 5W-30 or SAE 10W oil.

Capacity—Approximately 1½ pints.

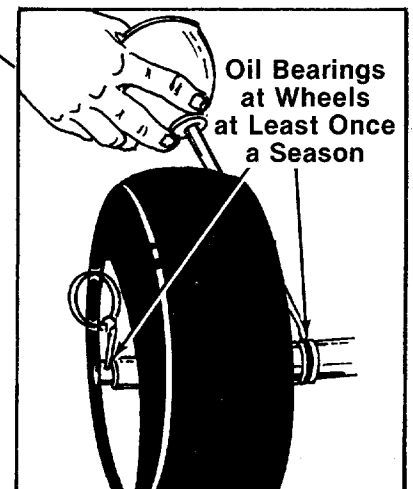
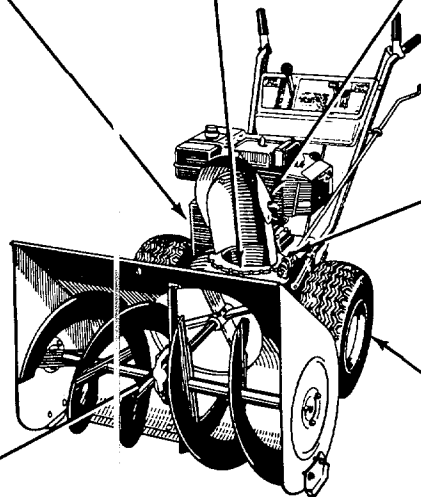
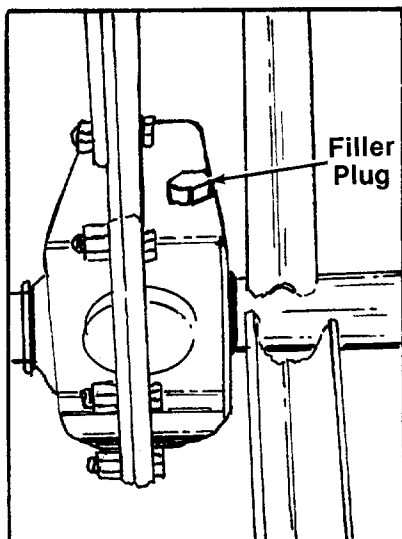
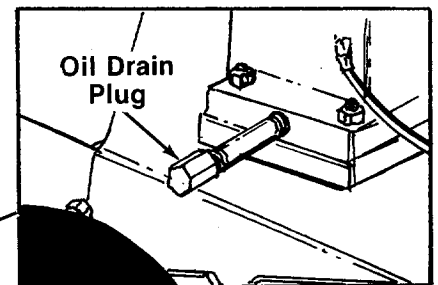


Grease Chute Opening Once A Season



Differential (Models 860 and 960) is sealed at the factory and does not require checking. If disassembled for any reason, lubricate with ¾ oz. of Plastilube #0. Order part number 737-0166.

Oil all chains, bearings, the hexagonal shaft and round shaft at least once a season. Use engine oil. Avoid getting oil on rubber friction wheel and aluminum wheel.



Gear case is lubricated with 4 oz. of Shell Alvania grease EPR00 (order part number 737-0168).

MAINTENANCE

AUGERS

The augers are secured to the spiral shaft with two hex bolts and hex lock nuts (see Ref. Nos. 40 and 50 on page 24). If you hit a foreign object or ice jam, the snow thrower is designed so that the hex bolts will shear.

If the augers will not turn, check to see if the hex bolts have sheared. Two replacement hex bolts and hex lock nuts have been provided with the snow thrower. For future use, order part number 710-0891 (hex bolt 5/16-18 x 1.75" long) and 712-0429 (hex insert lock nut 5/16-18 thread).

SHAVE PLATE AND SKID SHOES

The shave plate and skid shoes on the bottom of the snow thrower are subject to wear. They should be checked periodically and replaced when necessary. Skid shoes and shave plate are reversible for longer life. The skid shoes may also be inverted to extend their life even further.

To remove shave plate, remove the carriage bolts, lock washers and hex nuts which attach it to the snow thrower housing. Reassemble new shave plate, making sure heads of the carriage bolts are to the inside of the housing. Tighten securely.

To remove skid shoes, remove the four carriage bolts, belleville washers, and hex nuts which attach them to the snow thrower. Reassemble new skid shoes with the four carriage bolts, belleville washers (cupped side goes against skid shoes) and hex nuts.

BELT REMOVAL AND REPLACEMENT



Remove the spark plug wire from the spark plug and ground. Drain gasoline from the fuel tank, or place a piece of plastic film underneath the gas cap to prevent gasoline from leaking.

To remove and replace either the auger drive belt or the drive belt, proceed with the following instructions.

1. Remove the chute crank at the chute assembly by removing the cotter pin and flat washer.

2. Remove the plastic belt cover on the front of the engine by removing the three self-tapping screws and flat washers. See figure 26.

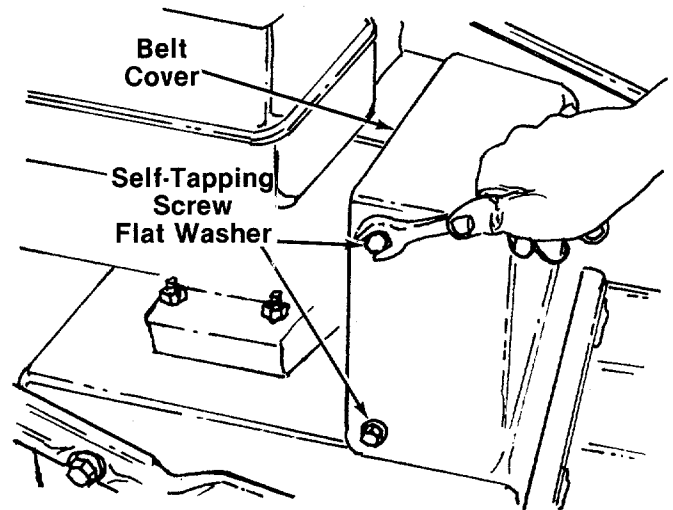


FIGURE 26.

3. Remove the large shoulder bolt and spacer on the right hand side of the engine pulley with an adjustable wrench. Remove the shoulder bolt and spacer from the idler bracket assembly with one hand. Use the other hand to catch the belleville washer which is on the shoulder bolt between the idler bracket and engine plate. See figure 27.

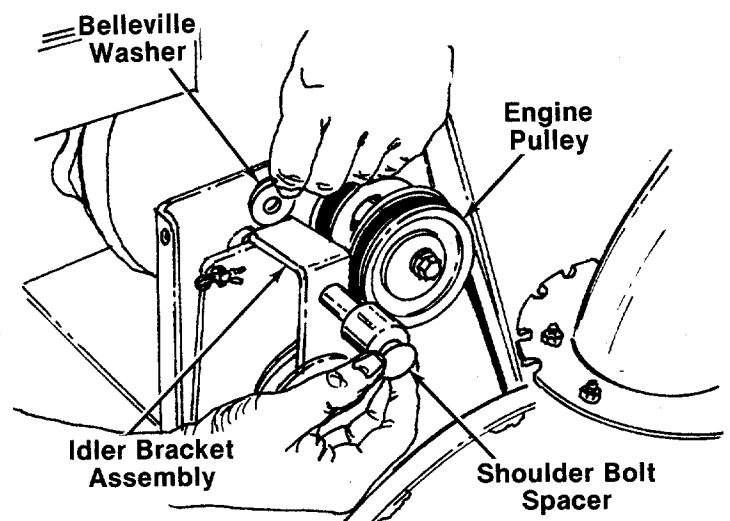


FIGURE 27.

4. Slip the auger drive belt (the front belt) off the engine pulley. See figure 28.

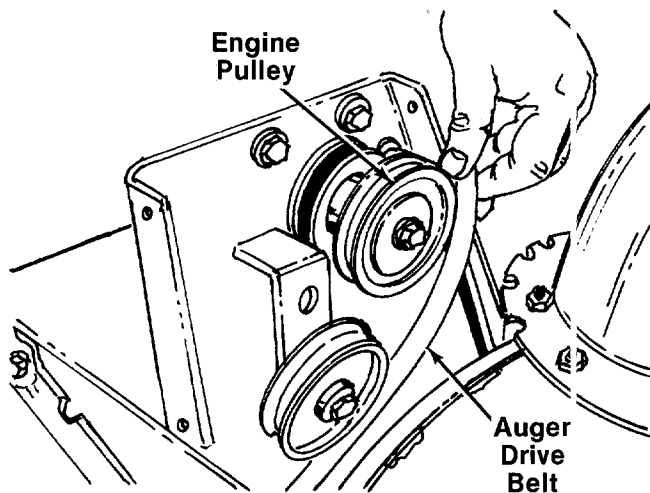


FIGURE 28.

5. Remove the top screws and lock washers which attach the auger housing assembly to the frame assembly. A 9/16" wrench is required. See figure 29.

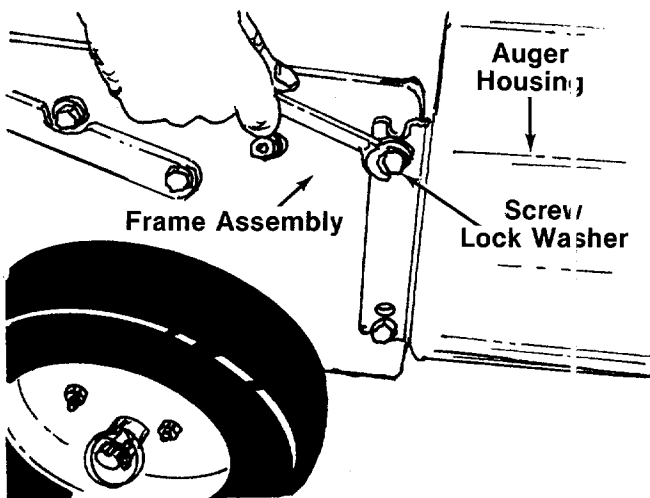


FIGURE 29.

6. To separate the auger housing from the frame assembly, two people are required. One person is in the operating position. Squeeze the auger clutch grip (right hand) as you raise up on the handles. See figure 30. The other person is in front of the unit. Push down on the housing or optional drift cutters. See figure 30. The unit will separate into two pieces.

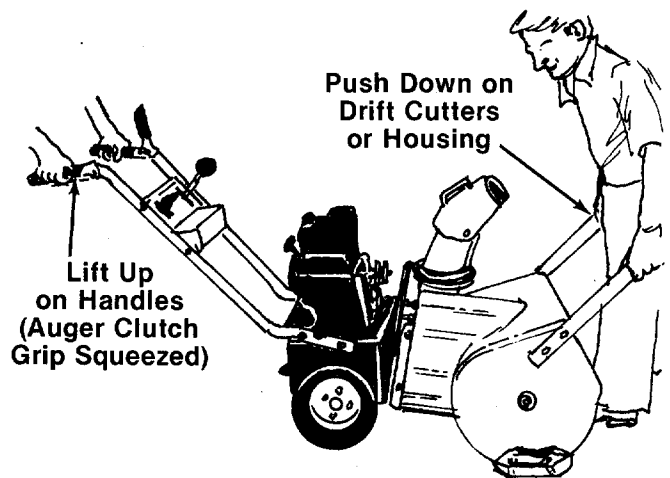


FIGURE 30.

7. To Remove Auger Drive Belt:

- a. Remove the hex screw and belleville washer from the center of the pulley on the auger housing. Remove the pulley. See figure 31. Be careful not to lose the key.

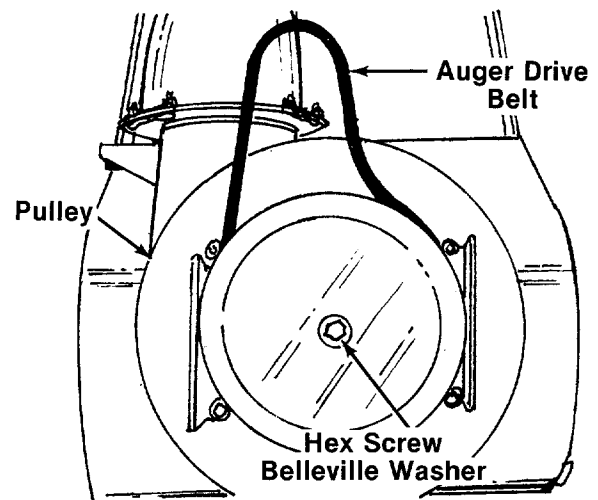


FIGURE 31.

- b. Remove and replace auger drive belt.
 - c. Reassemble pulley to auger housing with hex screw and belleville washer (cupped side is toward the pulley). Be certain key is in place on shaft.
8. To Remove Drive Belt:
 - a. Remove the cotter pin which holds the linkage rod to the idler bracket assembly. See figure 32.
 - b. Unhook extension spring from the engine plate. See figure 32.

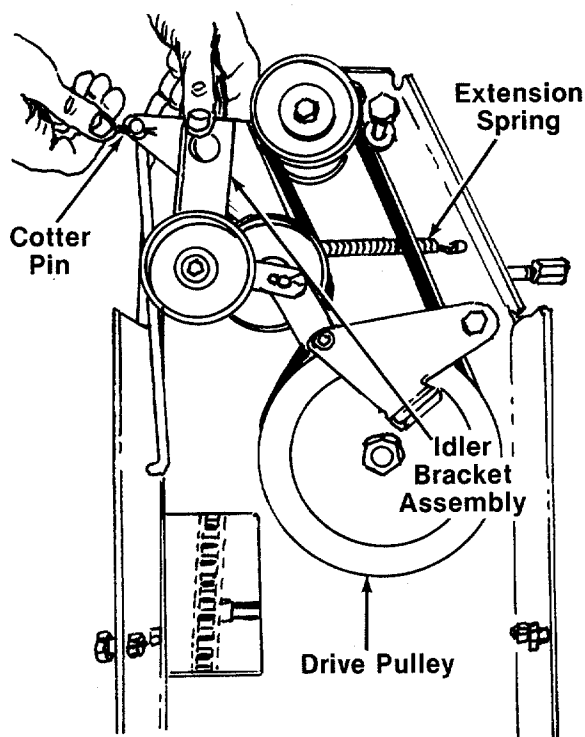


FIGURE 32.

- c. Remove drive belt from the engine pulley and bottom drive pulley.
- d. Replace belt and reassemble in reverse order.
9. Reassemble the two halves of the unit. Two people are required.



NOTE

If the two halves do not reassemble easily, the idler pulley and/or the brake shoe may be behind the large pulley.

10. Secure the two halves with the two screws and lock washers.
11. Slip the auger drive belt over engine pulley.
12. Reassemble the large shoulder bolt, spacer and belleville washer as shown in figure 27. Belleville washer goes on shoulder bolt between the idler bracket assembly and engine plate (cupped side toward engine plate)



NOTE

Shoulder of the bolt must go through **both** sides of idler bracket assembly.

13. Reassemble belt cover and chute crank.
14. Remove plastic film from gas cap.

Changing the Friction Wheel

1. Tip the snow thrower forward and let it rest on the housing or optional drift cutters.
2. Remove the four self-tapping screws holding the rear cover.
3. Slide out the rear cover.
4. Using two 1/2" wrenches, loosen and then remove the three hex nuts and lock washers holding the friction wheel to the friction wheel adapter. See figure 33.

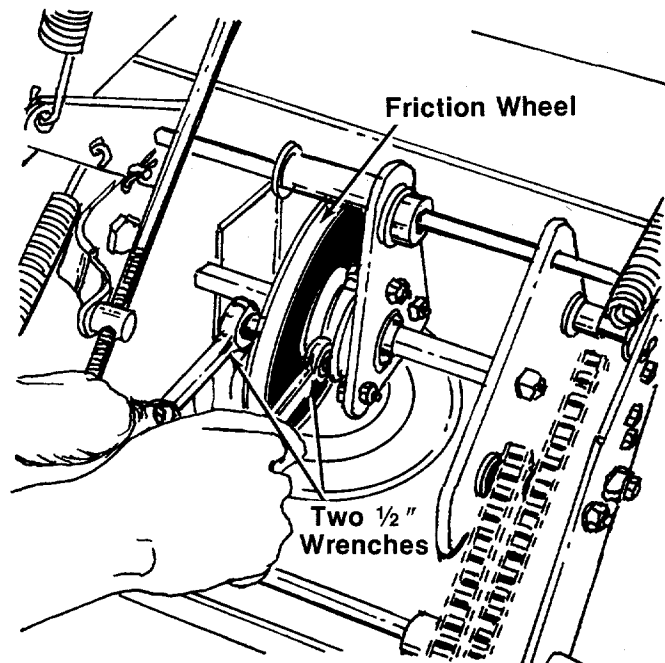


FIGURE 33.

5. Slide the friction wheel off the end of the hex shaft. See figure 34.



NOTE

It may be necessary to strike the friction wheel with a soft hammer to knock it loose.

6. Assemble the new friction wheel so the cupped side is towards the friction wheel adapter.
7. Fasten the friction wheel to the friction wheel adapter with the three lock washers and hex nuts. Tighten each nut in rotation until they are finger tight. Spin the wheel to see that it is not cocked on the hub. Then tighten using two 1/2" wrenches.

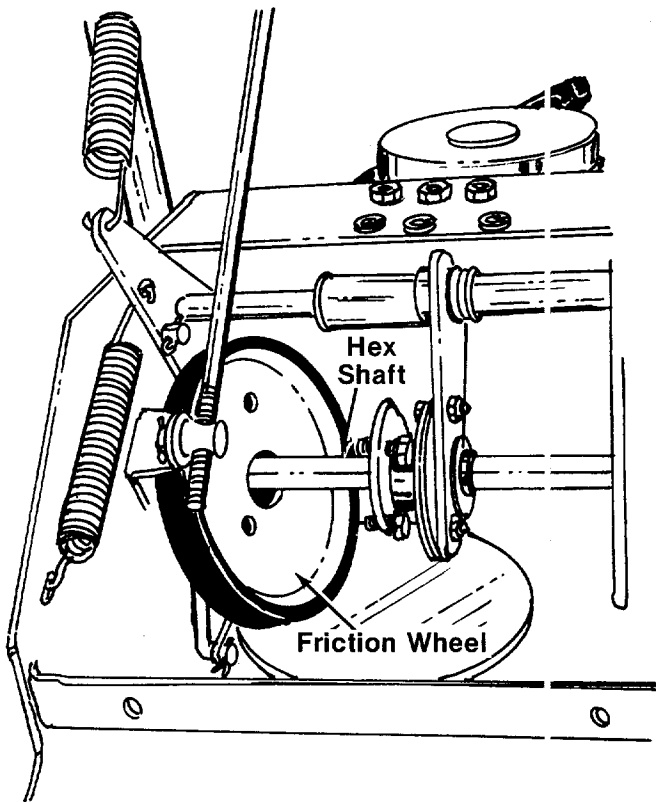


FIGURE 34.

8. Replace the rear cover.



CAUTION

Check engine and snow thrower frequently for loose nuts, bolts, etc. and keep these items tightened.

OFF-SEASON STORAGE



WARNING

Never store engine with fuel in tank indoors or in poorly ventilated enclosures, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, etc.

If unit is to be stored over 30 days, prepare for storage as follows:

1. Remove all gasoline from fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine.

- A. Run engine until engine starts to falter, then use choke to continue engine operation until all fuel in tank and carburetor is exhausted.
- B. Remove fuel line at tank or carburetor and drain any remaining gasoline from system.



WARNING

Drain fuel into approved container outdoors, away from open flame.



NOTE

Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

2. Remove spark plug and pour one (1) ounce of engine oil through spark plug hole into cylinder. Crank engine several times to distribute oil. Replace spark plug.
3. Remove all dirt from exterior of engine and equipment.
4. Follow lubrication recommendations on page 14.



NOTE

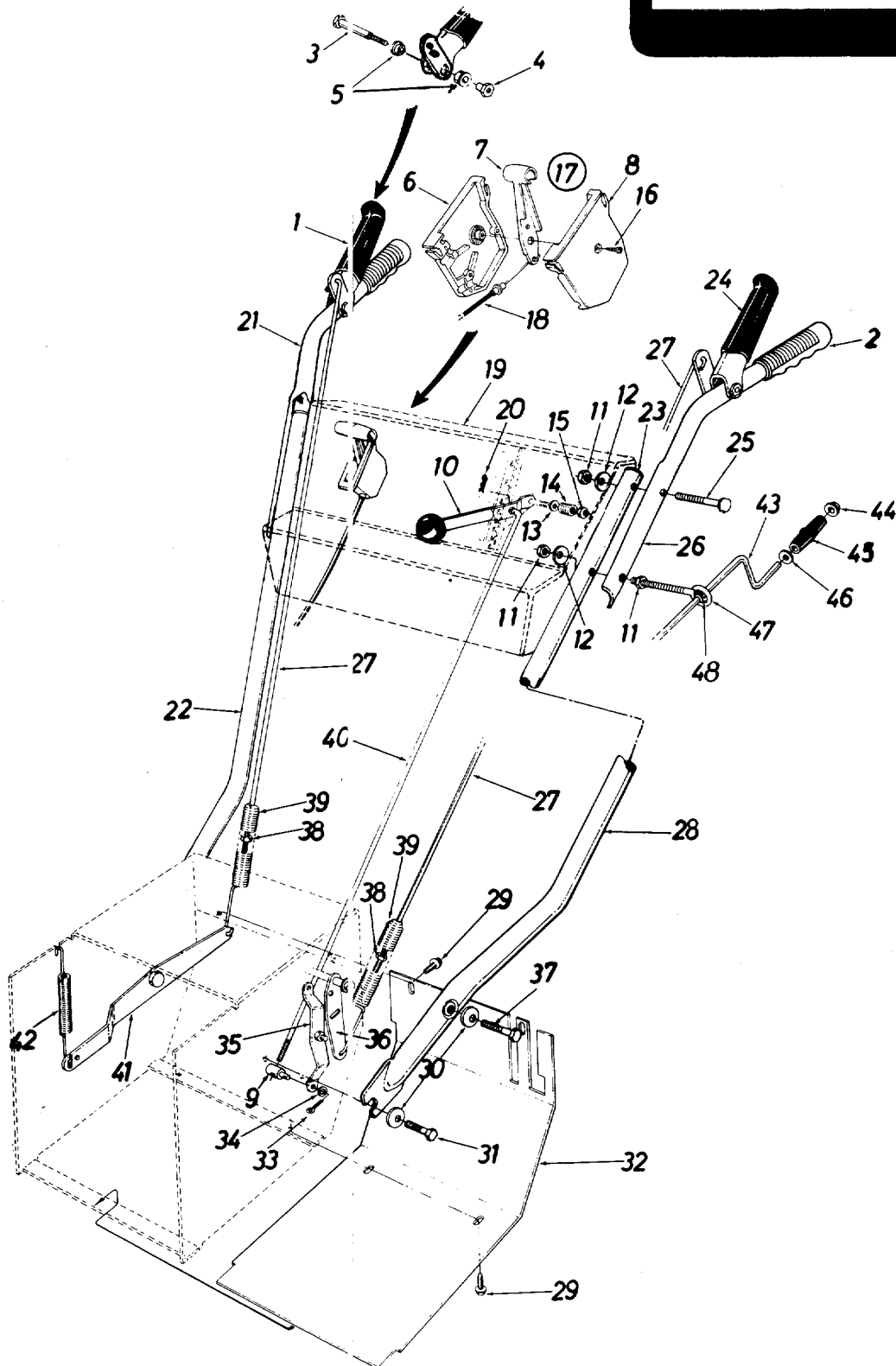
When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.

Trouble Shooting Chart

Problem	Possible Cause(s)	Solution
Engine fails to start	<ol style="list-style-type: none"> 1. Check fuel tank for gas. 2. Key not in switch on engine. 3. Spark plug lead wire disconnected. 4. Faulty spark plug. 	<ol style="list-style-type: none"> 1. Fill tank if empty. 2. Insert key. 3. Connect lead wire. 4. Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.
Hard starting or loss of power	<ol style="list-style-type: none"> 1. Spark plug wire loose. 2. Dirty air cleaner. 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire. 2. Service air cleaner as described in engine manual.
Engine overheats	<ol style="list-style-type: none"> 1. Carburetor not adjusted properly. 2. Engine oil level low. 	<ol style="list-style-type: none"> 1. Adjust carburetor. See engine manual. 2. Fill crankcase with the proper oil.
Augers will not turn	<ol style="list-style-type: none"> 1. Bolts sheared in auger. 2. Misadjusted auger clutch rod. 3. Foreign object jammed in augers. 4. Auger belt broken. 	<ol style="list-style-type: none"> 1. Replace shear bolts with bolts provided in hardware pack. NOTE: Do not use standard bolts. 2. Readjust auger clutch rod. See adjustment section. 3. Locate and remove foreign object. 4. Replace auger belt.
Hard to shift or will not shift	Shift rod misadjusted	Readjust shift rod. See adjustment section.
Wheels will not drive	<ol style="list-style-type: none"> 1. Misadjusted drive clutch rod. 2. Klick pins not in proper place (on units so equipped). 	<ol style="list-style-type: none"> 1. Readjust drive clutch rod. See adjustment section. 2. Place klick pins in wheel hub.
Unit does not have reverse	Sliding bracket hitting neutral shoulder bolt.	Adjust nut under spring on L.H. lockout rod.

Models 800, 860 and 960

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



Models 800, 860 and 960

PARTS LIST FOR MODELS 800, 860 AND 960 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	05988		Clutch Grip Ass'y.—R.H.		26	749-0593		Upper Handle—L.H.	
2	720-0180		Grip		27	747-0461		Lockout Rod	
3	738-0560		Shoulder Bolt .374 Dia. x 1.53" Lg.		28	749-0341		Lower Handle—L.H.	
4	738-0561		Shld. Nut 1/4-20 Thd.		29	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
5	741-0402		Hex Flange Plastic Bearing .38" I.D.		30	736-0105		Bell-Wash. .40" I.D. x .88" O.D.	
6	—		Part of Ref. No. 17		31	710-0555		Pilot Hex Scr. 3/8-16 x .88" Lg.	
7	—		Part of Ref. No. 17		32	05517		Frame Cover	
8	—		Part of Ref. No. 17		33	714-0507		Cotter Pin 3/32" Dia.*	
9	711-0677		Adjustment Ferrule		34	736-0264		FI-Wash. .345 I.D. x .62 O.D. x .06	
10	05694		Shift Handle Ass'y.		35	05522		Shifting Linkage Brkt.	
11	712-0267		Hex Nut 5/16-18 Thd.*		36	05500		Drive Clutch Brkt. Ass'y.	
12	736-0242		Bell-Wash. .34" I.D. x .88" O.D.		37	710-0427		Hex Bolt 3/8-16 x 2.0" Lg.*	
13	736-0105		Bell-Wash. .40" I.D. x .88" O.D.		38	712-0324		Hex Ins. L-Nut 1/4-20 Thd.	
14	732-0193		Compression Spring		39	732-0184		Ext. Spring .75" O.D. x 5" Lg.	
15	712-0116		Hex Ins. L-Nut 3/8-24 Thd.		40	711-0374		Shift Rod	
16	—		Part of Ref. No. 17		41	05518		Auger Clutch Brkt.	
17	831-0692		Throttle Control Box Ass'y.		42	732-0303		Ext. Spring .38" O.D. x 3.18" Lg.	
18	746-0500		Throttle Control Wire		43	05981		Chute Crank Ass'y.	
19	784-5002		Handle Panel Ass'y.		44	726-0100		Push Nut 3/8" Rod	
20	714-0104		Int. Cotter Pin 5/16" Dia.		45	720-0171		Knob 3/8" Rod	
21	749-0594		Upper Handle—R.H.		46	736-0140		FI-Wash. .40" I.D. x .62" O.D.	
22	749-0342		Lower Handle—R.H.		47	747-0416		Eyebolt 5/16-18 x 5.0" Lg.	
23	731-0496		Plastic Plug		48	735-0218		Grommet	
24	05987		Clutch Grip Ass'y.—L.H.						
25	710-0487		Curved Carriage Bolt 5/16-18 x 2.0" Lg.						

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(488—Mack Truck Yellow)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Mack Truck Yellow Finish—05487 (488).)



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

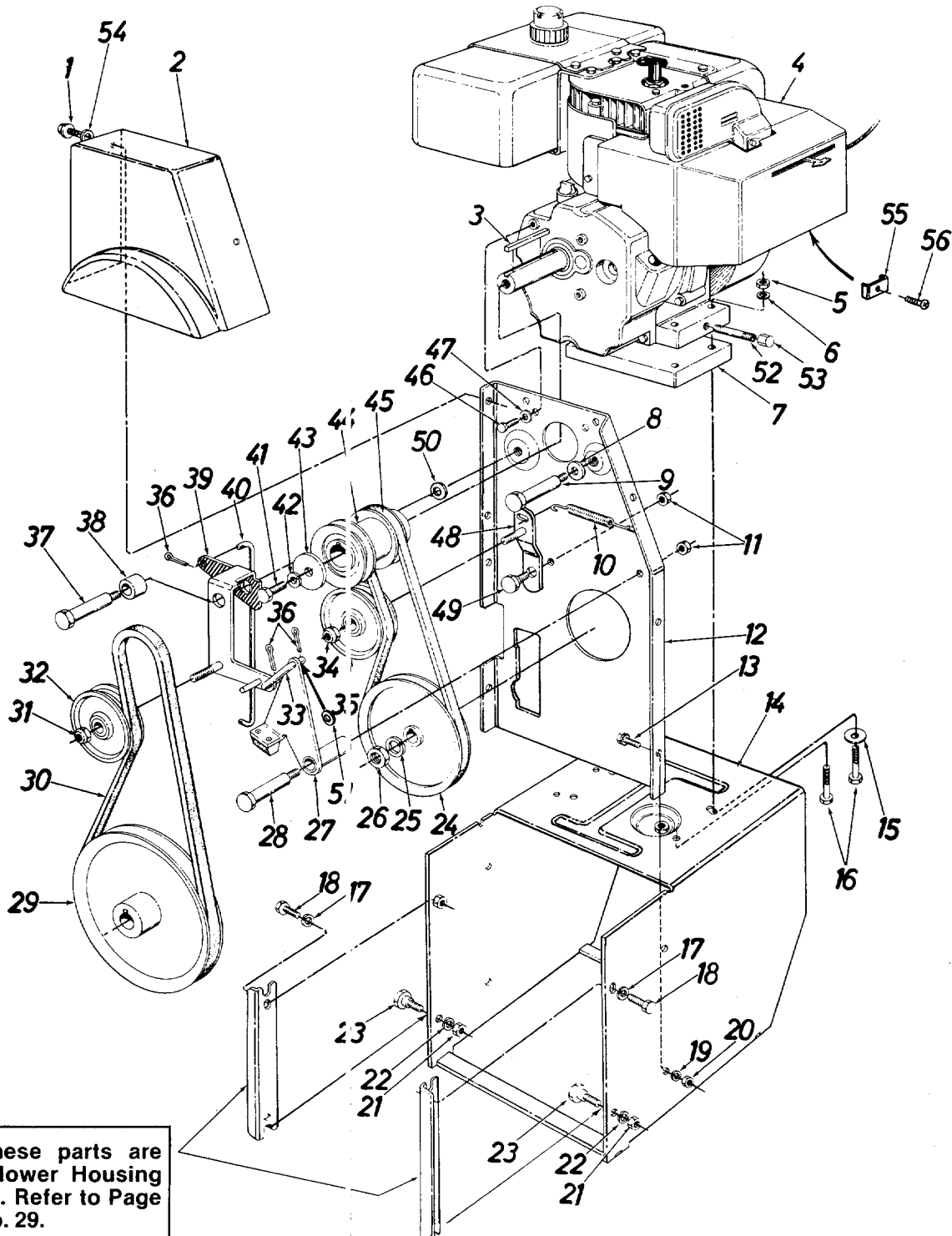
The engine is not under warranty by the snow thrower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



Models 800, 860 and 960

→ IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.



BELT SYSTEM

Models 800, 860 and 960

PARTS LIST FOR MODELS 800, 860 AND 960 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0600		Hex Wash. Self-Tap Scr. 5/16-24 x .50" Lg.		31	712-0116		Hex Ins. Jam L-Nut 3/8-24 Thd.	
2	731-0321		Belt Cover		32	756-0240		FI-Idler w/Flanges 3.0 O.D.	
3	714-0118		Sq. Key 1/4" x 1.50" Lg.		33	05531		Brake Linkage Ass'y.	
4	—		Engine		34	712-0116		Hex Ins. Jam L-Nut 3/8-24 Thd.	
5	712-0267		Hex Nut 5/16-18 Thd.*					3.0" O.D. FI-Idler w/Flanges (800)	
6	736-0119		L-Wash. 5/16" Scr.*		35	756-0240		Flat Idler Pulley (860 & 960)	
7	717-0522		Engine Spacer Ass'y. (Used w/Tech. Engine)			756-0225		Int. Cot. Pin 5/16" Dia.	
8	736-0105		Bell-Wash. .40 I.D. x .88 O.D.		36	714-0104		Shld. Scr. .625 Dia. x 2.750" Lg.	
9	738-0215		Shld. Scr. .498" Dia. x 3.00" Lg. (800)		37	738-0282		Spacer .75 O.D. x 1.00" Lg.	
	711-0769		Stud 3/8-16 x 3.37" Lg. (860 & 960)		38	750-0227		Blower Idler Brkt. Ass'y.	
					39	05493		Auger Clutch Rod .31" Dia. x 10.62" Lg.	
10	732-0303		Ext. Spring .38 O.D. x 3.18" Lg.		40	747-0149		Hex Bolt 3/8-24 x 1.25" Lg.	
11	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		41	710-0191		L-Wash. 3/8" Scr. H.D.	
12	05491 —452		Engine Brkt. Ass'y.		42	736-0217		FI-Wash.	
13	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		43	07386		Engine Pulley—Double Groove (800)	
14	05487 —452		Frame Ass'y.		44	756-0241		Engine Pulley (860 & 960)	
15	736-0264		FI-Wash. .345 I.D. x .75 O.D. x .060		45	756-0429		"V"-Belt 3/8 x 35.5 Lg.	
16	710-0378		Hex Scr. 5/16-18 x 2.50" Lg.*		46	754-0131		Hex Scr. 5/16-24 x .62" Lg.*	
17	736-0217		L-Wash. 3/8" Scr. H.D.		47	710-0237		Bell-Wash. .345 I.D. x .88 O.D. x .060	
18	710-0555		Pilot Scr. 3/8-16 x .88" Lg.		48	736-0242		Drive Idler Brkt. Ass'y.	
19	736-0119		L-Wash. 5/16" Scr.*		49	05495		Shld. Scr.—.625" Dia. x .170" Lg.	
20	712-0267		Hex Nut 5/16-18 Thd.*		49	738-0281		Bell-Wash. .40 I.D. x 1.12 O.D.	
21	712-0798		Hex Nut 3/8-16 Thd.*		50	736-0219		FI-Wash. .34 I.D. x .750 O.D. x .05	
22	736-0217		L-Wash. 3/8" Scr. H.D.		51	736-0264		Pipe Nipple—1/2" Pipe Thd. x 3.00" Lg.	
23	738-0143		Shld. Scr. .498" Dia. x .340" Lg.		52	737-0130		Hex Scr. 1/4-18 Pipe Thd.	
24	756-0344		V-Pulley .628 I.D. x 7.50 O.D.		53	737-0132		FI-Wash. .340 I.D. x .62 O.D. x .62	
25	736-0158		L-Wash. for 5/8" Scr.*		54	736-0264		Throttle Control Wire Clamp	
26	712-0221		Hex Ins. Jam L-Nut 5/8-18 Thd.		55	751-0360		Hex Sems Scr. #10-32 x .62" Lg.	
27	05510		Brake Brkt. Ass'y.		56	710-0899		Ignition Key (Not Shown)	
28	738-0129		Shld. Scr. .498" Dia. x 2.00" Lg.						
29	756-0243		V-Pulley .875 I.D. x 10.12 O.D.						
30	754-0194		"V"-Belt 1/2" x 45.0" Lg.						

(488—Mack Truck Yellow)

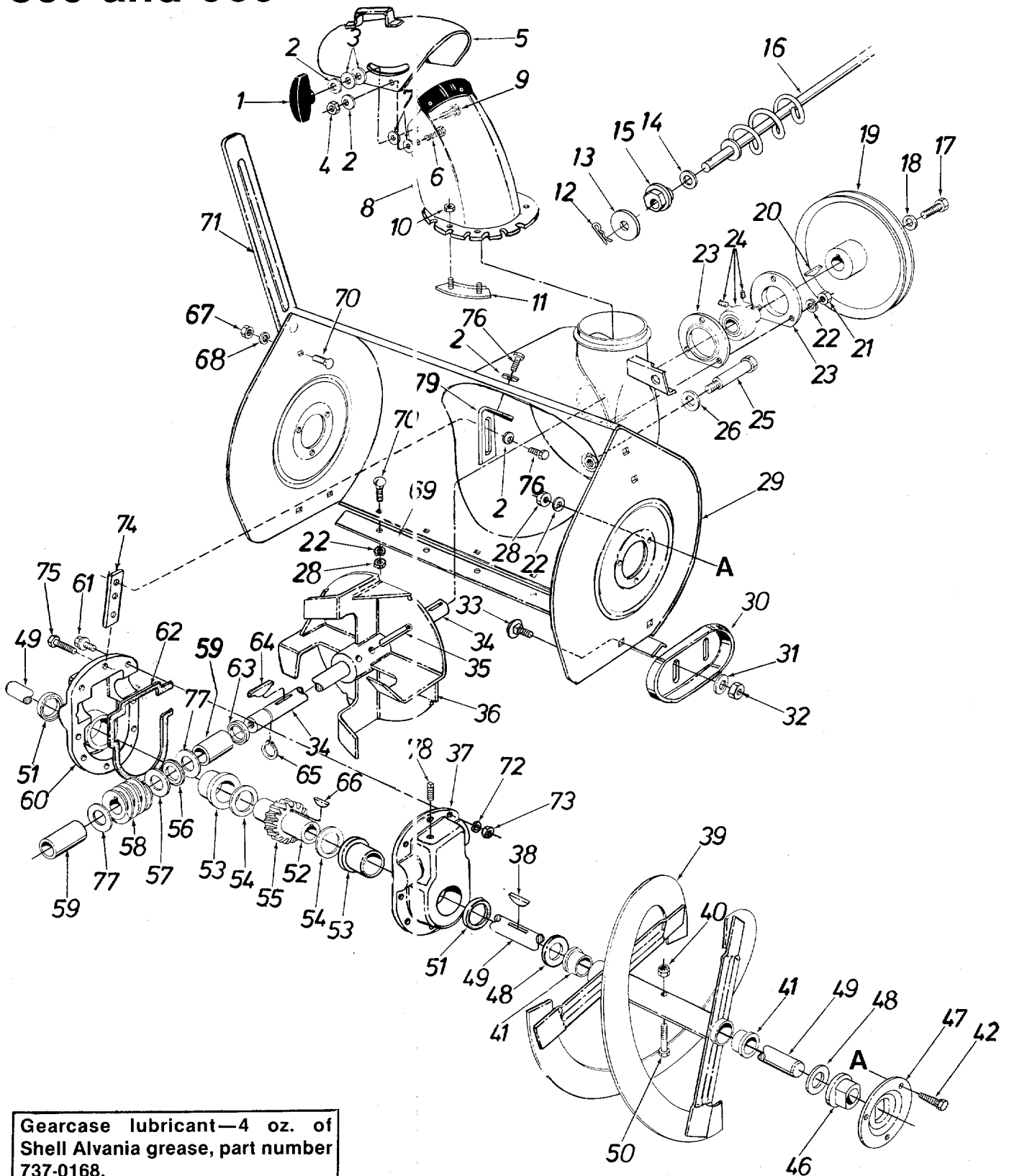
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Models 800, 860 and 960



Gearcase lubricant—4 oz. of Shell Alvania grease, part number 737-0168.

AUGER HOUSING

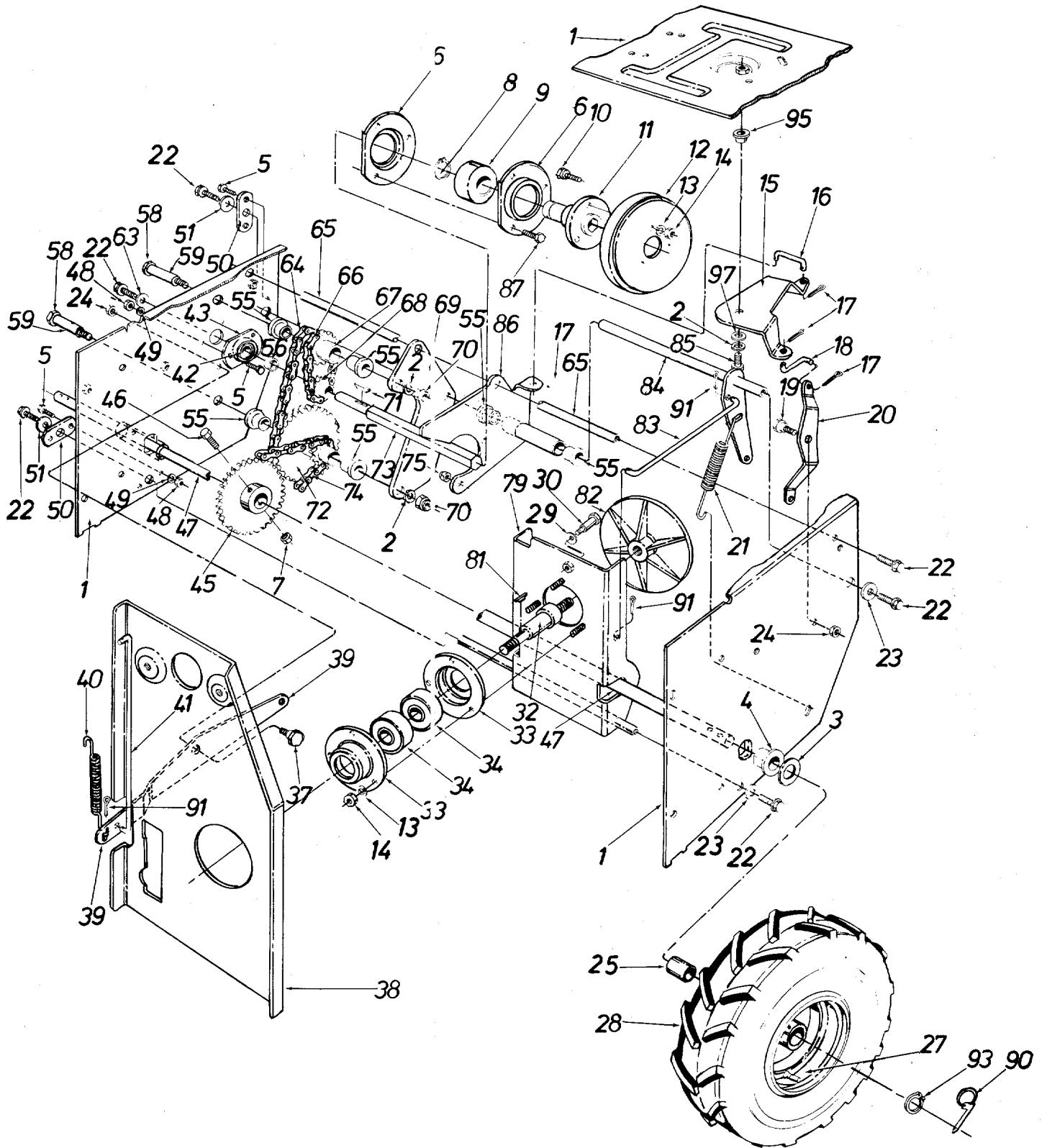
Models 800, 860 and 960

PARTS LIST FOR MODELS 800, 860 AND 960 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	09966		Hand Knob Ass'y.		40	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
2	736-0242		Bell-Wash. .345 I.D. x .88 O.D. x .060		41	05136		Plastic Bushing	
3	736-0231		Fl. Wash. .312 I.D. x 1.125 O.D. x .125		42	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
4	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		46	741-0244		Flange Brg. w/Flats 1.0" I.D.	
5	05225 —488		Top Chute Ass'y.		47	05845		Bearing Hsg.—Spiral Hsg.	
6	710-0260		Carr. Bolt 5/16-18 x .62" Lg.		48	736-0250		Fl-Wash. 1.06 I.D. x 1.75" O.D. x .100	
7	736-0179		Fl-Wash. .53 I.D. x 1.25 O.D. x .100		49	738-0490		Spiral Axle—26" (800 & 860)	
8	05951 —488		Chute Ass'y.			738-0491		Spiral Axle—33" (960)	
9	710-0276		Carr. Bolt 5/16-18 x 1.00" Lg.		50	710-0891		Hex Bolt 5/16-18 x 1.75" Lg.	
10	712-0107		Hex Cent. L-Nut 1/2-20 Thd.		51	721-0146		Oil Seal 1.50" I.D.	
11	05783		Chute Flange Keeper Ass'y.		52	738-0275		Worm Gear Shaft	
12	714-0507		Cotter Pin		53	741-0182		Flange Brg. 1.503 I.D.	
13	736-0234		Fl-Wash. .390" I.D. x 1.50" O.D.		54	736-0266		Fl-Wash. 1.50 I.D. x 2.00 O.D. x .030	
14	736-0140		Fl-Wash. .385" I.D. x .62" O.D.		55	717-0300		Double Threaded Worm Gear	
15	741-0403		Hex Bushing		56	741-0184		Thrust Brg. .88 I.D. x 1.44 O.D. x .078	
16	05981		Chute Crank Ass'y.		57	736-0291		Fl-Wash. .88 I.D. x 1.40 O.D. x .150	
17	710-0371		Hex L-Scr. 5/16-18 x .88" Lg.		58	717-0299		Double Threaded Worm—L.H.	
18	736-0242		Bell-Wash. .345 I.D. x .88 O.D. x .060		59	741-0217		Sleeve Brg. .875 I.D.	
19	756-0243		V-Pulley .875 I.D. x 10.12 O.D.		60	717-0298		Complete Gear Hsg. Half—R.H. (Incl. Ref. Nos. 51 & 53)	
20	714-0126		#9 Hi-Pro Key 3/16 x 3/4" Dia.					Hex Scr. 5/16-18 x 1.00" Lg.	
21	712-0267		Hex Nut 5/16-18 Thd.*		61	710-0376		Gasket	
22	736-0119		L-Wash. 5/16" Scr.*		62	721-0144		Oil Seal .875" I.D.	
23	05244		Bearing Hsg.—Self Aligning Brg.		63	721-0145		#9 Hi-Pro Key 3/16 x 3/4" Dia.	
24	741-0185		Self Aligning Brg. .875 I.D.		64	714-0126		Snap Ring for .875" Dia. Shaft	
25	711-0640		Stud 3/8-16 x 2.75" Lg.		65	716-0111		#91 Woodruff Key 1/4 x 3/4" Dia.	
26	736-0105		Bell-Wash. .400 I.D. x .88 O.D. x .060		66	714-0135		Hex Nut 5/16-18 Thd.*†	
28	712-0267		Hex Nut 5/16-18 Thd.*		67	712-0267		L-Wash. 5/16" Scr.*†	
29	784-5010		Blower Hsg. Ass'y. (800 & 860)		68	736-0119		Shave Plate—26" (800 & 860)	
	784-5011		Blower Hsg. Ass'y. (960)		69	05000		Shave Plate—33" (960)	
30	784-5038		Slide Shoe	N	70	710-0260		Carr. Bolt 5/16-18 x .62" Lg.†	
31	736-0105		Bell-Wash. .400 I.D. x .88 O.D. x .060		71	05139		Drift Cutter†	
32	712-0342		Hex Jam Nut 3/8-16 Thd.		72	736-0271		Wave Wash. 5/16" Scr.*	
33	710-0790		Carr. Bolt 3/8-16 x .62" Lg.		73	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
34	738-0276		Blower Axle		74	784-5075		Gear Hsg. Support Plate	N
35	715-0118		Spring Pin Spiral 5/16" Dia. x 1.75" Lg.		75	710-0528		Hex Scr. 5/16-18 x 1.25" Lg.	
36	05812		Blower Fan Ass'y.		76	710-0726		Hex Wash. Hd. Self-Tap Scr. 5/16-18 x .75" Lg.	
37	717-0297		Complete Gear Hsg. Half—L.H. (Incl. Bearing)		77	736-0291		Fl-Wash. .88 I.D. x 1.40 O.D. x .150	
38	714-0135		#91 Woodruff Key 1/4" x 3/4" Dia.		78	737-0175		Filler Plug	
39	05463		26" Spiral Ass'y.—L.H. (800 & 860)		79	784-5076		Gear Hsg. Support Brkt.	N
	05464		26" Spiral Ass'y.—R.H. (800 & 860)						
	05461		33" Spiral Ass'y.—L.H. (960)						
	05462		33" Spiral Ass'y.—R.H. (960)						

†Optional Parts

Model 800



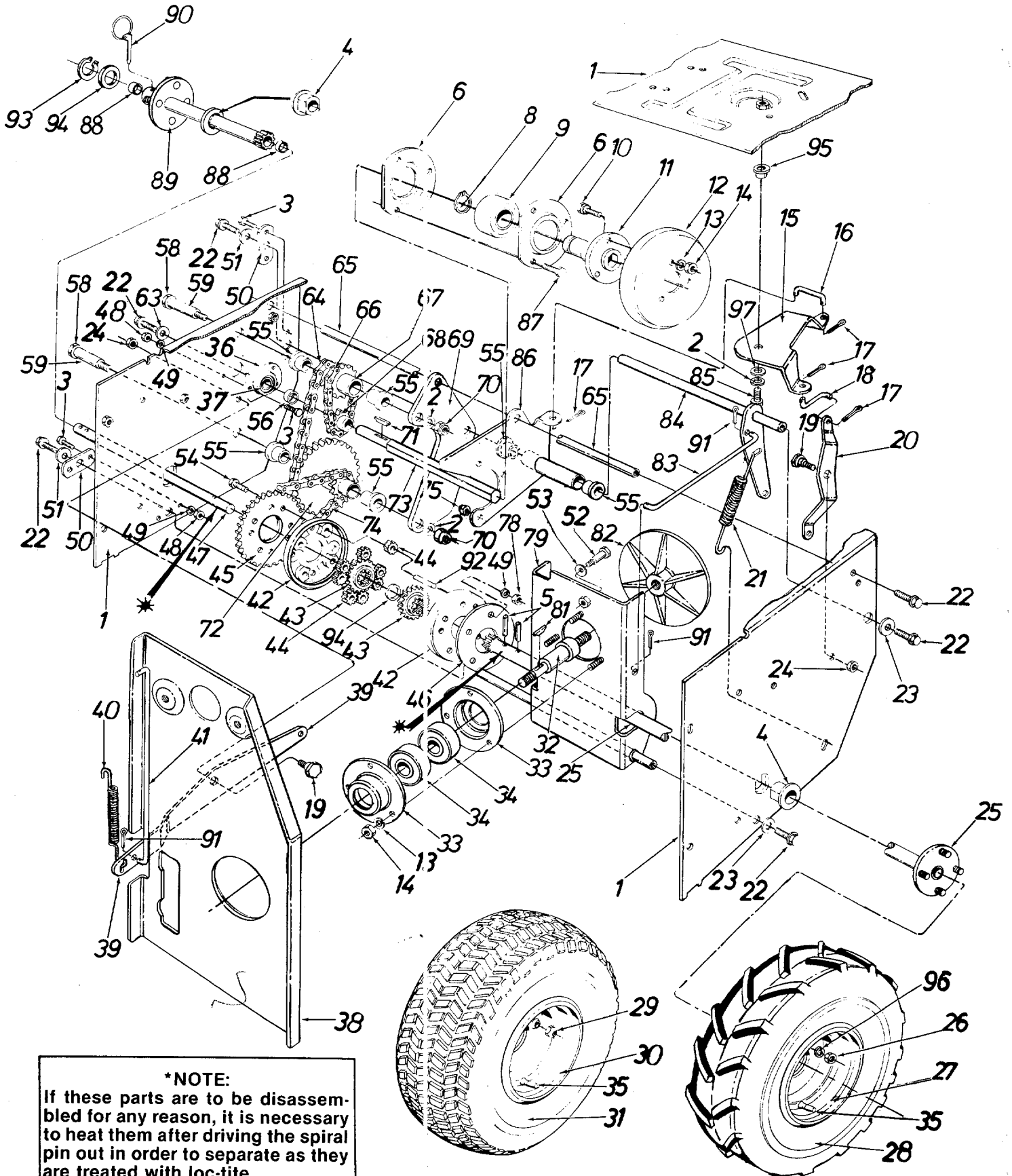
GEAR CASE BREAKDOWN

Model 800

PARTS LIST FOR MODEL 800 SNOW THROWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	05487	—452	Frame Ass'y.		42	741-0133		Ball Bearing	
2	736-0217		L-Wash. 3/8" Scr.*		43	05034		Bearing Housing	
3	736-0163		Fl-Wash. 1.03" I.D. x 1.62" O.D. x .03		45	713-0320		28 Tooth Sprocket—Hub Ass'y.	
4	741-0244		Flange Brg. 1.0" I.D.		46	710-0409		Hex Scr. 5/16-24 x 1.75" Lg. (2 Req'd.)	
5	710-0258		Hex Bolt 1/4-20 x .62" Lg.*		47	738-0548		Axle—Free Wheeling	
6	05794		Bearing Housing		48	712-0287		Hex Nut 1/4-20 Thd.*	
7	712-0273		Hex L-Nut 5/16-24 Thd. (2 Req'd.)		49	736-0329		L-Wash. 1/4" Scr.*	
8	716-0102		Snap Ring for 1.00" Dia. Shaft		50	05523		Pivot Axle Brkt.	
9	741-0301		Ball Brg. 25 mm x 52 mm x 15 mm		51	736-0264		Fl-Wash. .345" I.D. x .75" O.D. x .060	
10	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		55	748-0184		Flange Brg.—.630" I.D.	
11	748-0281		Friction Wheel Adapter		56	750-0277		Spacer .51" I.D. x .69" O.D. x .44	
12	05080		Friction Wheel Ass'y.		58	710-0629		Hex Scr. 3/8-24 x 2.75" Lg.	
13	736-0119		L-Wash. 5/16" Scr.*		59	750-0275		Sprocket Hub Tubing 1.900" Lg.	
14	712-0267		Hex Nut 5/16-18" Thd.*		63	736-0242		Bell-Wash. .345" I.D. x .88 O.D. x .060	
15	05521		Sliding Linkage Brkt.		64	713-0270		#41 Chain—1/2" Pitch x 43 Links	
16	747-0151		Sliding Rod—.31" Dia. x 2.00" Lg.			713-0723		Master Link	
17	714-0507		Cot. Pin 3/32" Dia. x .75" Lg.*		65	738-0278		Sliding Support Axle	
18	747-0152		Shifting Linkage Rod .31" Dia. x 2.25" Lg.		66	713-0199		#41 Chain 1/2" Pitch x 19 Links	
19	738-0281		Shld. Scr. .625" Dia. x .170" Lg.			713-0723		Master Link	
20	05522		Shifting Linkage Brkt.		67	713-0193		9 and 14 Teeth Sprocket Hub Ass'y.	
21	732-0121		Extension Spring .73 O.D. x 4.31" Lg.		68	748-0204		8 Teeth Sprocket	
22	710-0538		Hex L-Scr. 5/16-18 x .62" Lg.*		69	05520		Chain Support Brkt.	
23	736-0264		Fl-Wash. .345 I.D. x .75 O.D. x .060		70	712-0116		Hex L-Jam Nut 3/8-24 Thd.	
24	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		71	714-0129		#9 Hi-Pro Key 3/32 x 5/8" Dia.	
25	741-0246		Bearing		72	713-0194		9 and 32 Teeth Sprocket Hub Ass'y.	
27	734-1121		Wheel Rim Ass'y.		73	738-0280		Hex Shaft	
28	734-1153		Wheel Ass'y. Comp. 16 x 4.5—L.H.		74	713-0269		#420 Chain—1/2" Pitch x 37 Links	
	734-1152		Wheel Ass'y. Comp. 16 x 4.5—R.H. (Not Shown)			713-0154		Master Link	
	734-0808		Tire Only		75	712-0896		Hex Ins. Jam L-Nut 1/4-28"	
	734-0255		Air Valve		79	05497		Drive Plate Mtg. Brkt. Ass'y.	
29	736-0105		Bell-Wash.		81	714-0388		#61 Hi-Pro Key 3/16 x 5/8" Dia.	
30	738-0144		Shld. Scr.		82	717-0302		Aluminum Drive Plate	
32	738-0279		Drive Plate Spindle		83	747-0150		Drive Clutch Rod .31" Dia. x 7.38" Lg.	
33	08253		Bearing Housing		84	05500		Drive Clutch Brkt. Ass'y.	
34	741-0919		Ball Brg. .787 I.D. x 1.85 O.D. x .56		85	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.	
37	738-0281		Shld. Scr. .625" Dia. x .170" Lg.		86	05502		Sliding Brkt. Ass'y.	
38	05491	—452	Engine Brkt. Ass'y.		87	710-0195		Hex Scr. 1/4-28 x .62" Lg.*	
39	05518		Auger Clutch Brkt.		90	714-0151		Klick Pin	
40	732-0303		Extension Spring .38 O.D. x 3.18" Lg.		91	714-0104		Internal Cot. Pin 5/16 Dia.	
41	747-0149		Auger Clutch Rod .31" Dia. x 10.62" Lg.		93	716-0102		Snap Ring 1.0" Shaft	
					95	738-0347		Shld. Spacer 5/8" I.D.	
					97	736-0227		Fl-Wash.	

Models 860 and 960



HANDLE AND CONTROLS

Models 860 and 960

PARTS LIST FOR MODEL 860 AND 960 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	05487	—452	Frame Ass'y.		46	05484		Differential Hsg. Support Plate	
2	736-0217		L-Wash. 3/8" I.D.		47	738-0284		Differential Connecting Shaft	
3	710-0258		Hex Bolt 1/4-20 x .62" Lg.*		48	712-0287		Hex Nut 1/4-20 Thd.*	
4	741-0244		Flange Brg. w/Flats 1.00" I.D.		49	736-0329		L-Wash. 1/4" Scr.*	
5	715-0136		H-Spring Pin Spiral 3/16" Dia. x 1.25" Lg.		50	05523		Pivot Axle Brkt.	
6	05794		Bearing Housing		51	736-0264		FI-Wash. .345" I.D. x .75" O.D.	
8	716-0102		Snap Ring—1.00" Dia.		52	738-0144		Shld. Scr.	
9	741-0301		Ball Brg. 25 mm x 52 mm x 15 mm Thk.		53	736-0105		Bell-Wash.	
10	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		54	710-0559		Hex Scr. 1/4-28 x 1.75" Lg.*	
11	748-0281		Friction Wheel Adapter		55	748-0184		Flange Brg.—.630" I.D.	
12	05080		Friction Wheel Ass'y.		56	750-0277		Spacer .51" I.D. x .69" O.D.	
13	736-0119		L-Wash. 5/16" Scr.*		58	710-0629		Hex Scr. 3/8-24 x 2.75" Lg.	
14	712-0267		Hex Nut 5/16-18" Thd.*		59	750-0275		Sprocket Hub Tubing 1.900" Lg.	
15	05521		Sliding Linkage Brkt.		63	736-0242		Bell-Wash. .345" I.D. x .88 O.D.	
16	747-0151		Sliding Rod—.31" Dia. x 2.00" Lg.		64	713-0270		#41 Chain—1/2" Pitch x 43 Links	
17	714-0507		Cot. Pin 3/32" Dia. x .75" Lg.*			713-0723		Master Link	
18	747-0152		Shifting Linkage Rod .31" Dia. x 2.25" Lg.		65	738-0278		Sliding Support Axle	
19	738-0281		Shld. Scr. .625" Dia. x .170"		66	713-0199		#41 Chain 1/2" Pitch x 19 Links	
20	05522		Shifting Linkage Brkt.			713-0723		Master Link	
21	732-0121		Extension Spring .73 O.D. x 4.31" Lg.		67	713-0193		9 and 14 Teeth Sprocket Hub Ass'y.	
22	710-0538		Hex L-Scr. 5/16-18 x .62" Lg.*		68	748-0204		8 Teeth Sprocket	
23	736-0264		FI-Wash. .345 I.D. x .75 O.D.		69	05520		Chain Support Brkt.	
24	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		70	712-0116		Hex L-Jam Nut 3/8-24 Thd.	
25	05819		Differential Shaft Ass'y.—L.H. (860)		71	714-0129		#9 Hi-Pro Key 3/32 x 5/8" Dia.	
	05820		Differential Shaft Ass'y.—L.H. (960) (Incl. Ref. Nos. 5, 47 & Brg.)		72	713-0194		9 and 32 Teeth Sprocket Hub Ass'y.	
26	712-0798		Hex Nut 3/8-16 Thd. (860)		73	738-0280		Hex Shaft	
27	734-0824		Wheel Rim Ass'y. (860)		74	713-0269		#420 Chain—1/2" Pitch x 37 Links	
28	734-0825		Wheel Ass'y. Comp. 16.0 x 4.80-8 (860)			713-0154		Master Link	
	734-0808		Tire Only (860)		75	712-0896		Hex Ins. Jam L-Nut 1/4-28"	
29	712-0193		Cone Nut 3/8-24 Thd. (960)		78	712-0138		Hex Nut 1/4-28 Thd.	
30	09262		Wheel Rim Ass'y. (960)		79	05497		Drive Plate Mtg. Brkt. Ass'y.	
31	734-0748		Wheel Ass'y. Comp. 16.0 x 6.50 (960)		81	714-0388		#61 Hi-Pro Key 3/16 x 5/8" Dia.	
	734-0275		Tire Only 16 x 6.50-8 (960)		82	717-0302		Aluminum Drive Plate	
32	738-0279		Drive Plate Spindle		83	747-0150		Drive Clutch Rod .31" Dia. x 7.38" Lg.	
33	08253		Bearing Housing		84	05500		Drive Clutch Brkt. Ass'y.	
34	741-0919		Ball Brg. .787 I.D. x 1.85 O.D.		85	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.	
35	734-0255		Air Valve		86	05502		Sliding Brkt. Ass'y.	
36	05034		Bearing Housing		87	710-0195		Hex Scr. 1/4-28 x .62" Lg.*	
37	741-0133		Ball Bearing		88	741-0305		Sleeve Brg.	
38	05491	—452	Engine Brkt. Ass'y.		89	05534		Differential Tubing Ass'y.—R.H. (860)	
39	05518		Auger Clutch Brkt.			05637		Differential Tubing Ass'y.—R.H. (960)	
40	732-0303		Extension Spring .38 O.D. x 3.18" Lg.		90	714-0143		Klick Pin 1/4" Dia. x 1.75" Lg.	
41	747-0149		Auger Clutch Rod .31" Dia. x 10.62" Lg.		91	714-0104		Internal Cot. Pin 5/16 Dia.	
42	748-0222		Differential Housing		92	738-0304		Differential Pin	
43	748-0224		20 Tooth Spur Gear		93	716-0115		Snap Ring .625 Shaft	
44	748-0223		9 Tooth Spur Gear		94	736-0187		FI-Wash. .62 I.D. x 1.25 O.D.	
45	713-0198		28 Teeth Sprocket		95	738-0347		Shld. Spacer 5/8" I.D.	
					96	736-0169		L-Wash. 3/8" I.D.* (860 Only)	
					97	07386		FI-Wash.	

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM	GOLDSBORO
Auto Electric & Carburetor Co.	2625 4th Ave. S.	515 N. George St.
ARKANSAS	NORTH LITTLE ROCK	GREENSBORO
Sutton's Lawn Mower Shop	5301 Roundtop Drive	335 N. Green
	Box 368, Rt. 4	27402
	72117	CARROLL
CALIFORNIA	PORTERVILLE	Box 366, 71 High St.
Billious	75 North D Street	43112
COLORADO	DENVER	CLEVELAND
Spitzer Industrial Products Co.	6601 N.	7900 Lorain Ave.
	Washington St.	44102
	80229	WADSWORTH
FLORIDA	JACKSONVILLE	687 Seville Rd.
Radco Distributors	4909 Victor St.	44281
	Box 5459	YOUNGSTOWN
	32207	1301 Logan Ave.
Small Eng. Dist.	OPA LOCKA	Box 929
	2351 N.W. 147th St. ...	44501
	33054	MUSKOGEE
GEORGIA	EAST POINT	605 S. Cherokee
East Point Cycle & Key	2834 Church St.	74401
	30344	PORTLAND
ILLINOIS	LYONS	8216 N. Denver Ave. ...
Keen Edge Co.	8615 Ogden Ave.	97217
	60534	PENNSYLVANIA
INDIANA	ELKHART	HARRISBURG
Parts & Sales Inc.	2101 Industrial Pkwy..	4021 N. 6th St.
	46516	17110
IOWA	DUBUQUE	PHILADELPHIA
Power Lawn & Garden Equip.	2551 J.F. Kennedy	5222-24 N. Fifth St.
	52001	19120
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Suhren Engine Co.	8330 Earhart Blvd.	11125 Frankstown Rd. .
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MARYLAND	TAKOMA PARK	PUNXSUTAWNEY
Center Supply Co.	6867 New Hampshire	R.D. 2
	Ave.	15767
	20912	SCRANTON
MASSACHUSETTS	SPRINGFIELD	1133-35 Wyoming Ave. .
Morton B. Collins Co.	300 Birnie Ave.	18509
	01107	KNOXVILLE
MICHIGAN	LANSING	2000 Western Ave.
Lorenz Service Co.	2500 S. Pennsylvania .	37921
	48910	MEMPHIS
Power Equipment Dist.	MOUNT CLEMENS	3035-43 Bellbrook
	340 Hubbard	38116
	48043	DALLAS
MINNESOTA	HOPKINS	423 E. Jefferson
Hance Distributing Inc.	420 Excelsior Ave. W. .	75203
	55343	FORT WORTH
MISSISSIPPI	BILOXI	1702 N. Sylvania
Biloxi Sales & Service, Inc.	506 Caillavet St.	76111
	39533	HOUSTON
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Automotive Equip. Service	3117 Holmes St.	77003
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Henzler, Inc.	ST. LOUIS	SALT LAKE CITY
	2015 Lemay Ferry Rd. .	439 E. 900 So.
	63125	84111
NEW JERSEY	BELLMAWR	ASHLAND
Lawnmower Parts Inc.	717 Creek Rd.	101 Cedar Ridge Dr. ...
	08030	23005
NEW MEXICO	ALBUQUERQUE	SEATTLE
Spitzer Eng. & Parts	1023 Third Ave. N.W. .	1414 14th Ave.
	87103	98122
NEW YORK	CARTHAGE	APPLETON
Gamble Dist., Inc.	West End Ave.	123 S. Linwood Ave.
	13619	P.O. Box 798
Red Fox Parts Dist.	SCHOHARIE	54911
	Rt. 30 P.O. Box 527 ...	CHILTON
	12157	444 N. Madison
		53014

WARRANTY PARTS AND SERVICE POLICY

(0783)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.

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