

YARD-MAN

OUTDOOR POWER EQUIPMENT
for all seasons



Spring

Summer



Fall

Winter



Owner's Manual

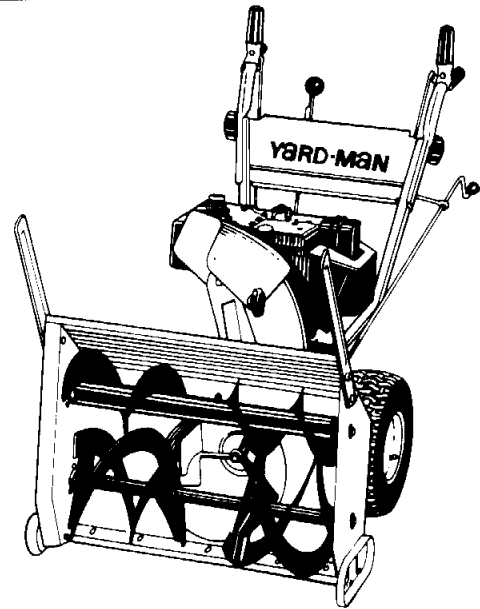
- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

IMPORTANT:

Read Safety Rules and
Instructions Carefully

Thank you for purchasing
an American-built product.

22" , 24" & 26" SNOW THROWERS



Model Numbers

31340-8

31353-8

31383-8

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Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at YARD-MAN COMPANY are taking a quick moment out to say. . .

“Thank you for your business.”

Sincerely,
YARD-MAN COMPANY



INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

LIMITED WARRANTY

For two years from the date of original retail purchase, YARD-MAN COMPANY 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 YARD-MAN COMPANY.

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, Peerless components, the motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

Warranty on units used commercially is limited to sixty (60) days.

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 YARD-MAN.

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

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.

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. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
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. 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 machine in any direction.

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.

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 unit unattended. Disengage the collector/impeller, shift into neutral, 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.
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 the machine 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 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.

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

ASSEMBLY

Tools Required for Assembly:

- Screwdriver
- 9/16" Wrench
- 1/2" Wrench
- 7/16" Wrench
- 3/8" Wrench
- or One Adjustable Wrench

Loose Parts in Carton (see figure 1):

- (1) Upper Handle Assembly—L.H.
- (1) Lower Handle—L.H.
- (1) Upper Handle Assembly—R.H.
- (1) Lower Handle—R.H.
- (1) Handle Panel
- (1) Chute Assembly
- (1) Drive Clutch Cable Assembly
- (1) Parts taped together which include:
 - (1) Shift Rod
 - (1) Chute Crank Assembly

Contents of Hardware Pack (see figure 2):

(Hardware pack may contain extra items which are not used on your unit.)

- A (2) Hex Bolts 3/8-16 x 2" Long
- B (3) Belleville Washers 3/8" I.D.
- C (5) Hex Nuts 5/16-18 Thread
- D (6) Belleville Washers 5/16" I.D.
- E (1) Ferrule
- F (1) Flat Washer 5/16" I.D. x 5/8" O.D.
- G (3) Hairpin Cotter
- H (2) Flat Washers 3/8" I.D. x 5/8" O.D.
- I (2) Carriage Bolts 5/16-18 x 3/4" Long
- J (1) Chute Crank Bracket
- K (1) Cotter Pin
- L (1) Compression Spring
- M (1) Elastic Lock Nut 3/8-24 Thread
- N (3) Chute Flange Keepers
- O (6) Truss Mach. Screws 1/4-20 x 3/4" Long
- P (6) Flat Washers 1/4" I.D.
- Q (6) Hex Lock Nuts 1/4-20 Thread
- R (1) Shift Lever
- S (1) Carriage Bolt 5/16-18 x 2" Long
- T (2) Hand Knobs
- U (2) Hex Bolts 5/16-18 x 2" Long
- V (2) Hex Bolts 5/16-18 x 1 1/2" Long*
- W (2) Hex Lock Nuts 5/16-18 Thread*
- X (2) Ignition Keys (May be Attached to Engine)

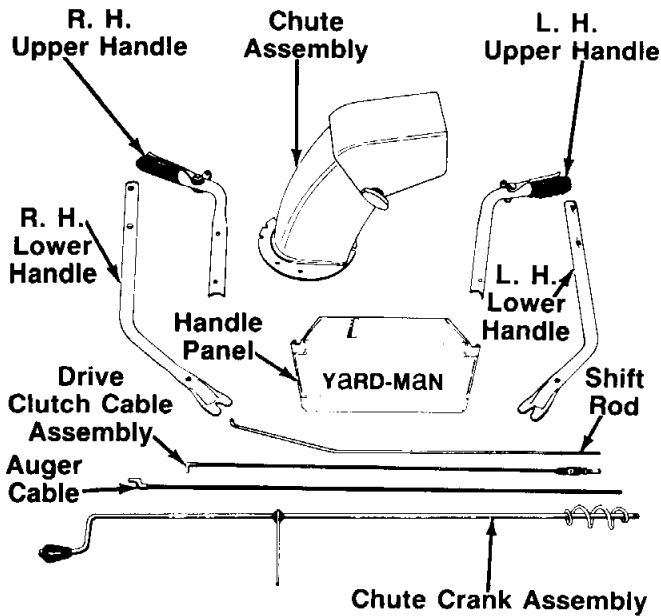


FIGURE 1.

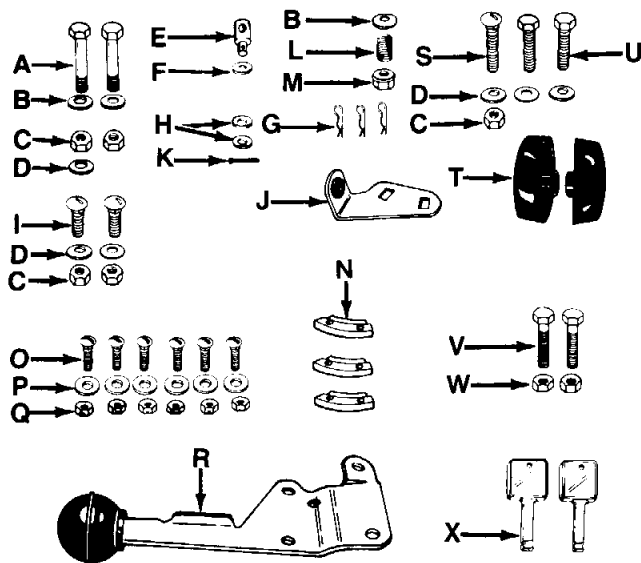


FIGURE 2.

*On Models 31353 and 31383, the lower augers are secured to the spiral shaft with two hex bolts and hex lock nuts (see ref. nos. 122 and 124 on page 28). 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.

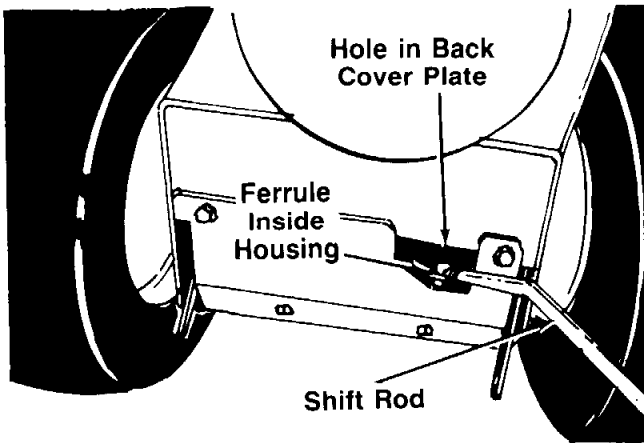


FIGURE 3.

1. Remove snow thrower and all parts from the carton. Check all carton inserts to be certain that all loose parts and literature have been removed before the carton is discarded.
2. Place the threaded end of shift rod into the hole in the back cover. See figure 3. Thread rod into the ferrule until ferrule is about half-way down the threaded end of the rod. Adjustment of shift rod will be made in step 16.

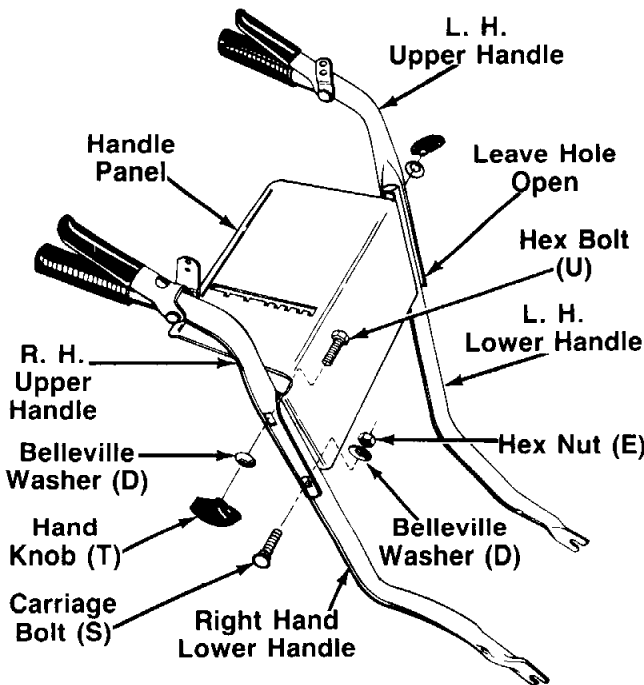


FIGURE 4.

3. Preassemble the upper and lower handles to the handle panel as shown in figure 4.
 - a. The top holes in upper and lower handles are secured to handle panel with hex bolts (U), belleville washers (D) (cupped side is against upper handle) and hand knobs (T). Do not tighten at this time.
 - b. The lower holes in right hand upper and lower handles are secured to the handle panel with carriage bolt (S) (head of carriage bolt is to the outside of the handle), belleville washer (D) (cupped side against the handle panel) and hex nut (E). Do not tighten at this time.
 - c. Leave lower hole on **left** hand side of upper and lower handles and handle panel open.

NOTE

All three bolts go through both upper and lower handles.

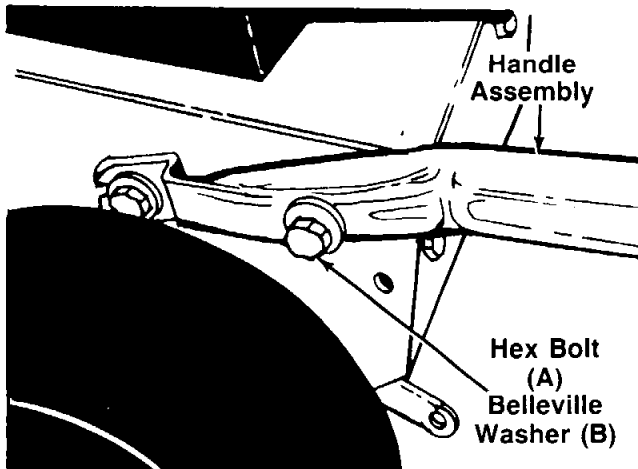


FIGURE 5.

4. To attach the handle assembly to the unit, loosen one self-tapping screw and belleville washer on each side of the unit. See figure 5. A 9/16" wrench or adjustable wrench is required.

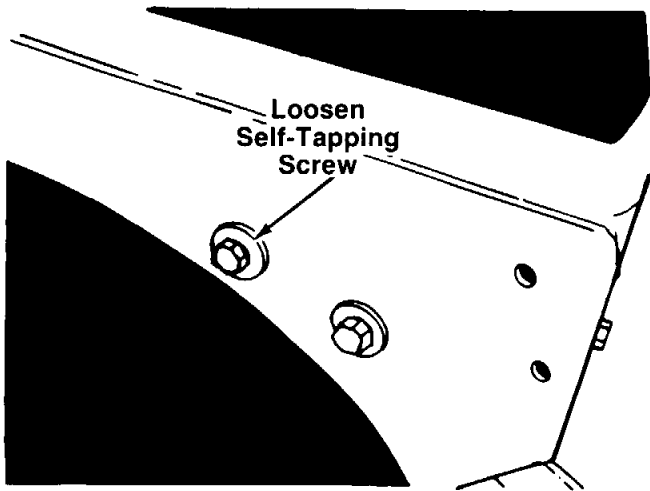


FIGURE 6.

5. Slide the slotted end of the handles under the belleville washers on the self-tapping screws which were loosened in step 4.
6. Secure the upper hole in the handles with belleville washers (B) (cupped side against the handles) and hex bolts (A). See figure 6. Do not tighten at this time.

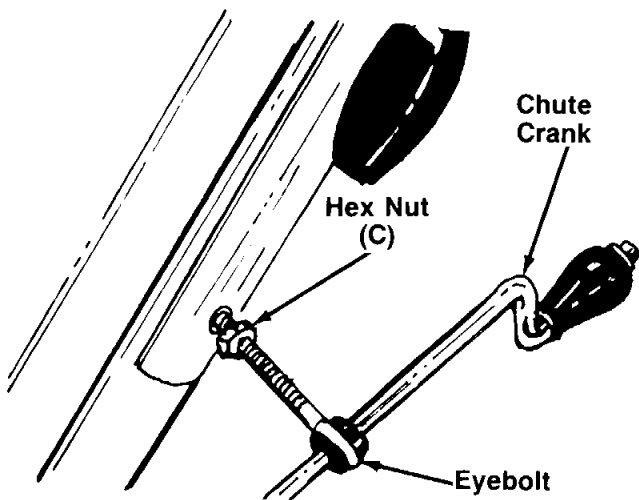


FIGURE 7.

7. Thread one hex nut (C) about halfway onto the eyebolt on the chute crank assembly. See figure 7.
8. Place the eyebolt into the lower hole in the left handle and handle panel. See figure 7. Secure with belleville washer (D) (cupped side against the handle panel) and hex nut (C). Do not tighten until after attaching the other end of the chute crank (step 14).
9. Tighten securely all bolts and nuts on the handle panel and all four bolts which secure the handles to the frame.

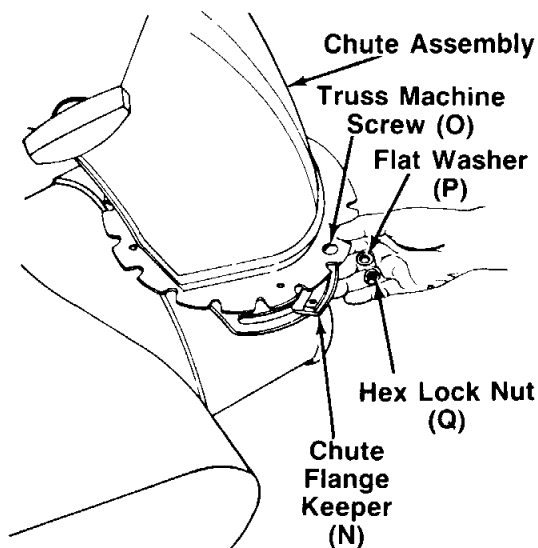


FIGURE 8.

10. Grease the chute opening using a multi-purpose automotive grease or equivalent.
11. Place chute assembly over chute opening, with the opening in the chute assembly facing the front of the unit. Place chute flange keepers (N) beneath lip of chute assembly. Secure with truss machine screws (O), flat washers (P) and hex lock nuts (Q) as shown in figure 8. Tighten with a screwdriver and a 7/16" wrench.

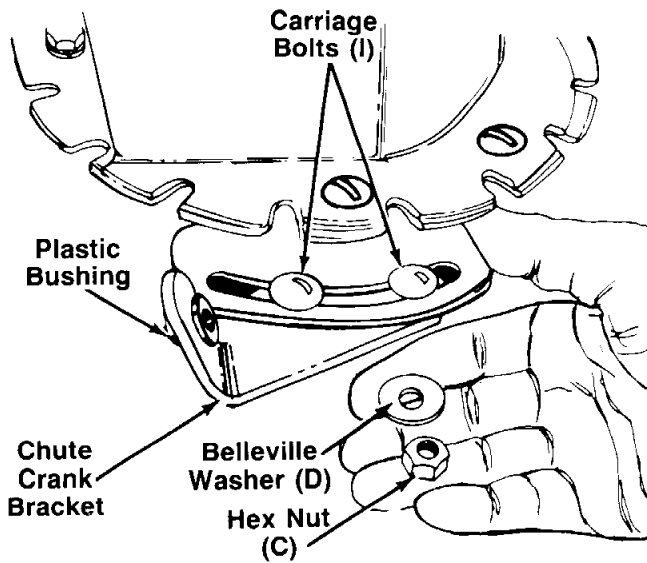


FIGURE 9.

12. Attach chute crank bracket to the extension on the left side of the chute opening (bracket goes beneath the opening) as shown in figure 9. Secure with carriage bolts (I), belleville washers (D) (cupped side of washers goes against the bracket) and hex nuts (C). Tighten finger tight only at this time.

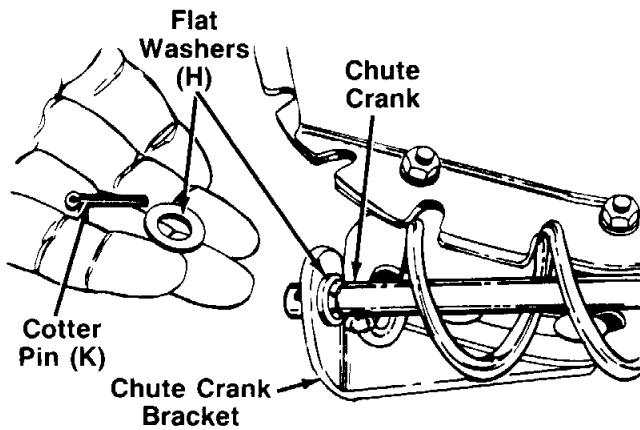


FIGURE 10.

13. Place one flat washer (H) on the end of the chute crank, then insert the end of the crank into the hole in the plastic bushing in the chute bracket. See figure 10. Place the other flat washer (H) on the end of the chute crank, and insert cotter pin (K) into hole in the end of crank. Secure by bending the ends of cotter pin in opposite directions.

14. Adjust the chute bracket so that the spiral on the chute crank fully engages the teeth on the chute assembly. Tighten the nuts on the chute crank bracket securely. Tighten the hex nuts on the eyebolt at the handle panel.

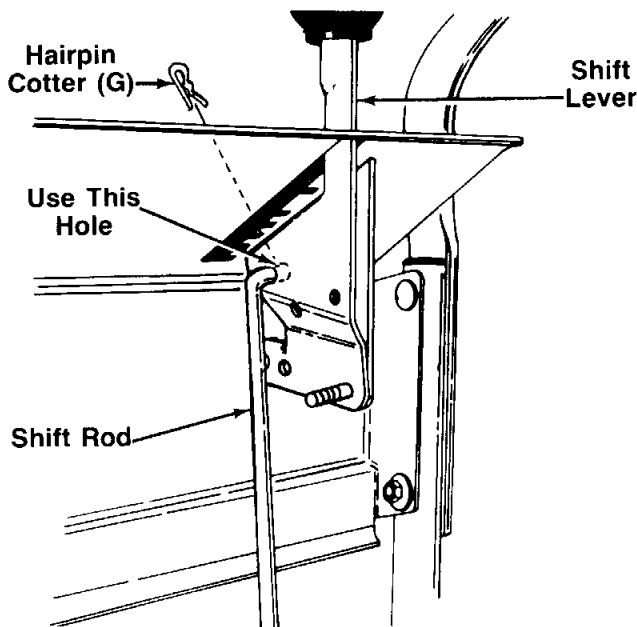


FIGURE 11.

15. Place shift lever (R) 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 11.

16. Place the shift lever in reverse (R) position. **Pull the shift rod (assembled to the ferrule in step 3) back sharply, as far as it will go, to put into full reverse position.** Thread the shift rod in or out of the ferrule as necessary until the end of the rod lines up with the hole in the shift lever. Insert end of rod into hole in shift lever as shown in figure 11, and secure with hairpin cotter (G).

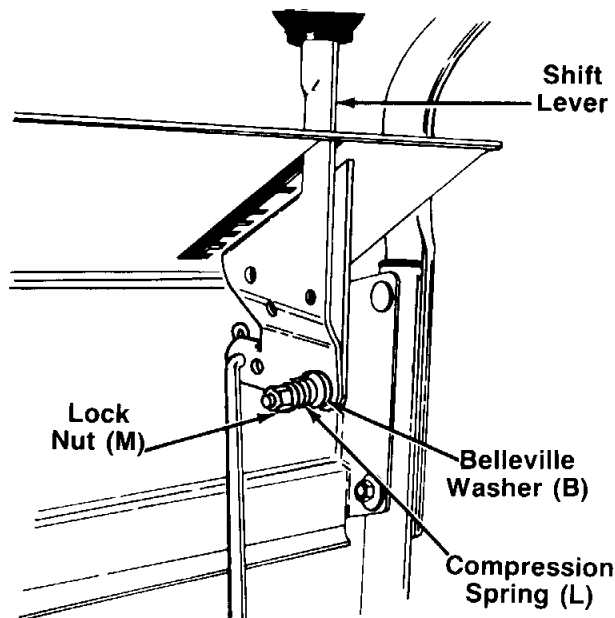


FIGURE 12.

17. Secure with belleville washer (B) (cupped side goes against shift lever), compression spring (L) and elastic lock nut (M). See figure 12. Tighten lock nut until compression spring returns the shift lever into detent slots on handle panel.

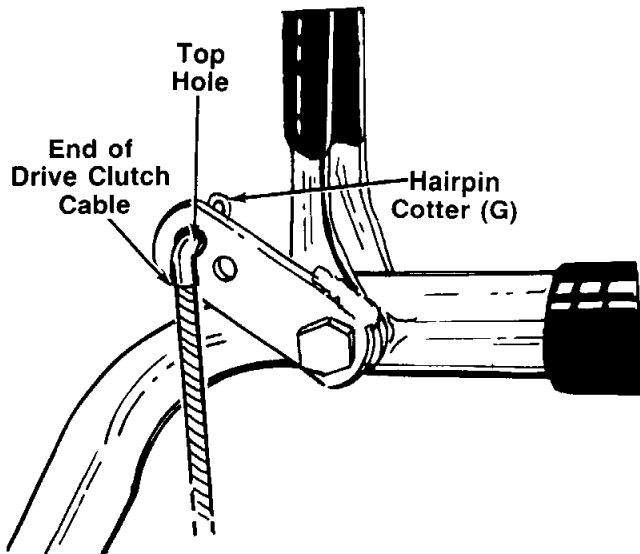
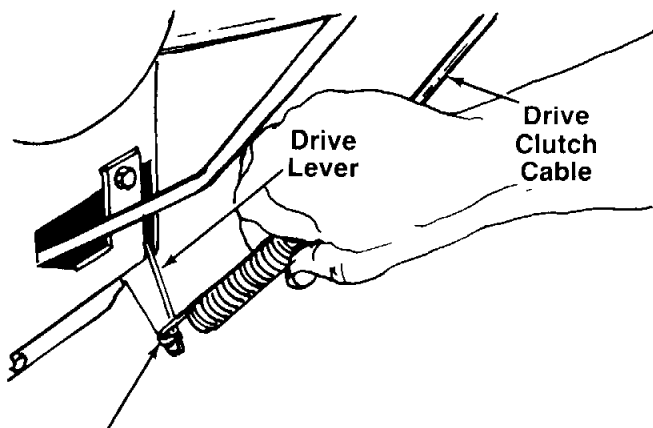


FIGURE 13.

18. The drive clutch cable is the cable with a spring on one end. Place the "L" end of the drive clutch cable into the top hole in the drive clutch grip assembly on the right hand handle as shown in figure 13. Secure with hairpin cotter (G).



Line Up Center of Hook With Center of Hole
FIGURE 14.

19. With the clutch grip in the up (released) position, swing the drive clutch cable 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 14.

If it does not, adjust the nut on the lockout cable by sliding the spring up and using a 7/16" wrench to move the nut on the end of the cable up or down as necessary until the hook on the spring aligns with the center of the hole in the bracket.

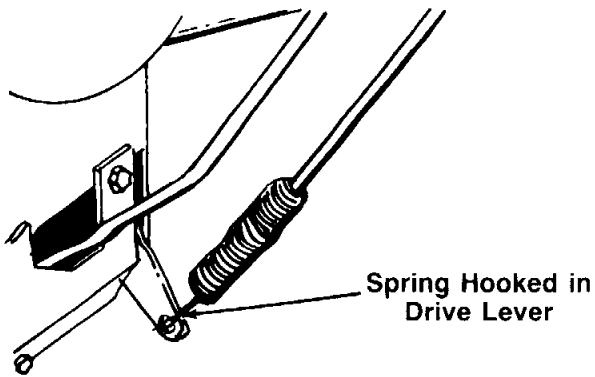


FIGURE 15.

20. Hook the drive clutch cable into drive lever. **There should not be any tension on the spring when the clutch grip is in the released position.** See figure 15.

21. To check the adjustment, squeeze the drive clutch grip. The drive lever should move up. Release the clutch grip. Drive lever should return to neutral (down) position, and the clutch grip should spring to the up position.

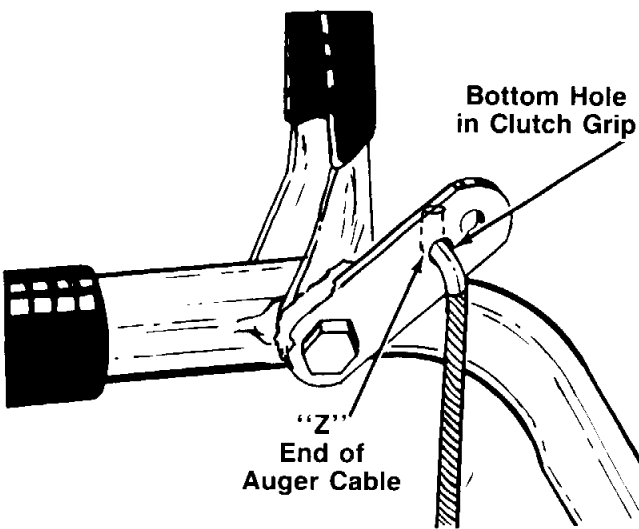


FIGURE 16.

22. The auger clutch grip assembly is located on the left handle. With the clutch grip assembly in the disengaged (raised) position, hook the "Z" end of the auger cable into the bottom hole in auger clutch grip assembly as shown in figure 16. The "Z" end hooks toward the outside of the unit.

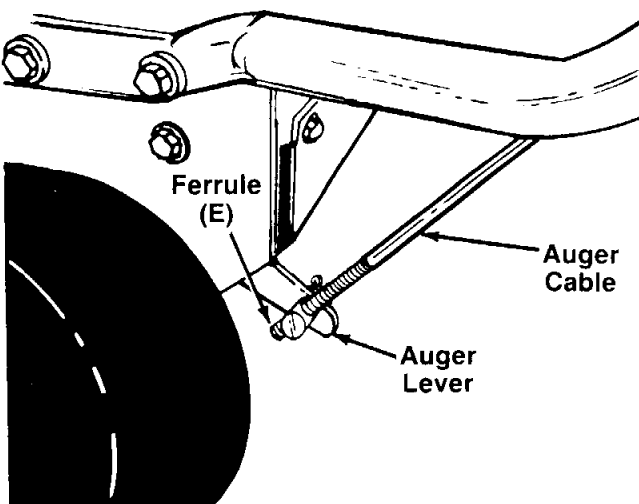


FIGURE 17.

23. Thread the ferrule (E) onto end of auger cable until it lines up with the hole in the auger lever (auger lever is in down position and auger clutch grip is released). Place the ferrule through the auger lever. See figure 17.

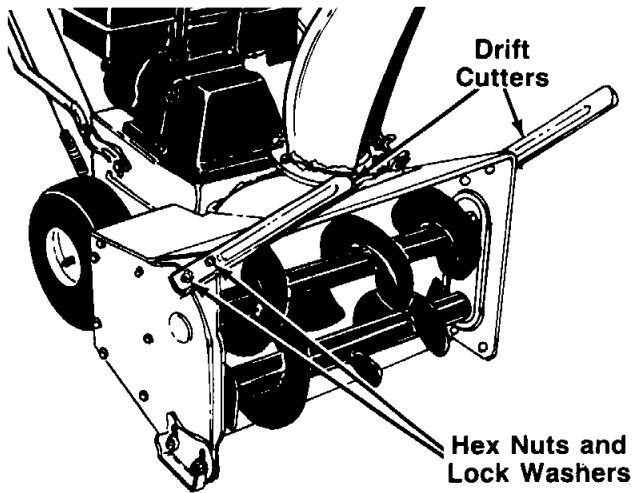


FIGURE 18.—Model 31340 Shown

24. Assemble the drift cutters by using a 1/2" wrench to remove the hex nuts and lock washers holding the drift cutters to the auger housing. See figure 18. Turn and place the drift cutters in position (ridges on drift cutters go toward the outside of the unit). Secure with the hardware just removed (heads of carriage bolts are to the **inside** of the housing). Tighten securely.

25. The space between the shave plate and the ground can be adjusted. For close snow removal, place skid shoes in the low position. Use middle or high position when area to be cleared is uneven. See figure 19.

Adjust skid shoes by loosening the four hex nuts and carriage bolts and moving skid shoes to desired position. Make certain the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes. Retighten nuts and bolts securely.

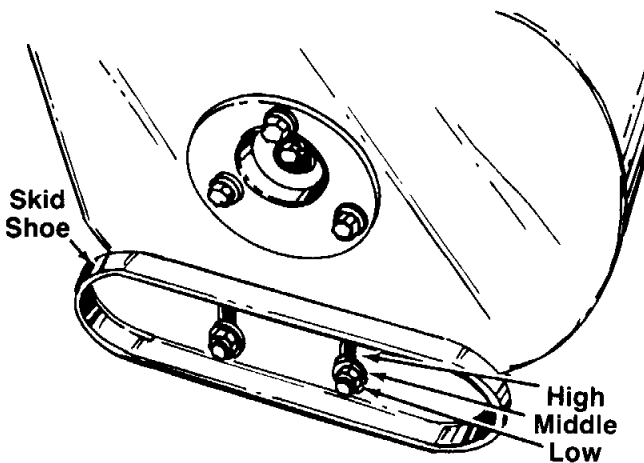


FIGURE 19.—Models 31353 and 31383 Shown

PNEUMATIC TIRE PRESSURE

The tires are over inflated for shipping purposes. Check tire pressure and reduce to 15 to 20 psi.

NOTE

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

CONTROLS

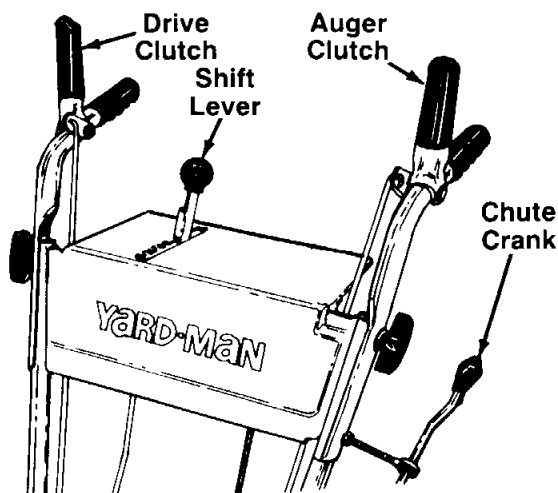


FIGURE 20.

← SHIFT LEVER (See figures 20 and 21)

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

- A. Center Position (N) is NEUTRAL.
- B. Forward Position—one of five speeds. Position number one (1) is the slowest. Position number five (5) is the fastest.
- C. Rear Position (R) is REVERSE.



FIGURE 21.

DRIVE CLUTCH (See figure 20)

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

AUGER CLUTCH (See figure 20)

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

CHUTE CRANK (See figure 20)

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.

THROTTLE CONTROL (See figure 22)

The throttle control is located on the engine. It regulates the speed of the engine.

SAFETY IGNITION SWITCH (See figure 22)

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.

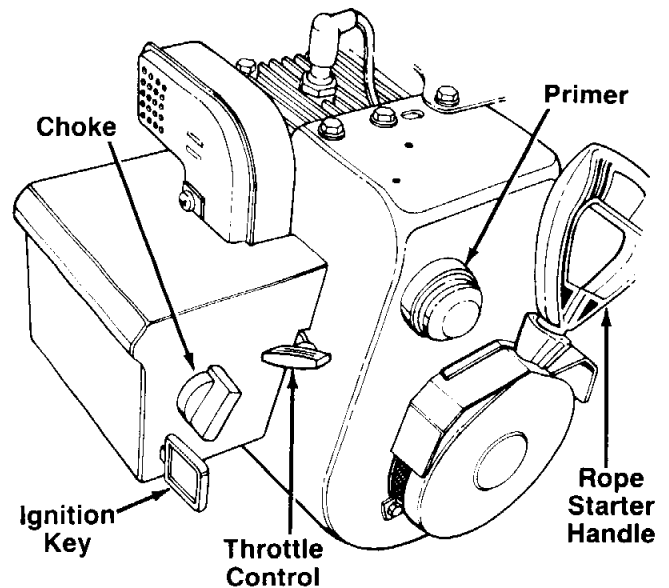


FIGURE 22.—Model 31353 Shown

OPERATION

GAS AND OIL FILL-UP

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

NOTE

Your snow thrower is shipped without oil; however, a small amount of oil may be present from the factory. Do not overfill.



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

STARTING INSTRUCTIONS

1. Attach spark plug wire to spark plug.
2. Insert ignition key (do not turn).
3. Place shift lever in NEUTRAL (N) position.
4. Place throttle control in FAST position.



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

5. Start engine following appropriate instructions.
 - A. Cold engine start (engine has not been run recently).

1. Turn choke to FULL position. See figure 22.
2. Push primer two (2) or three (3) times. See figure 22.

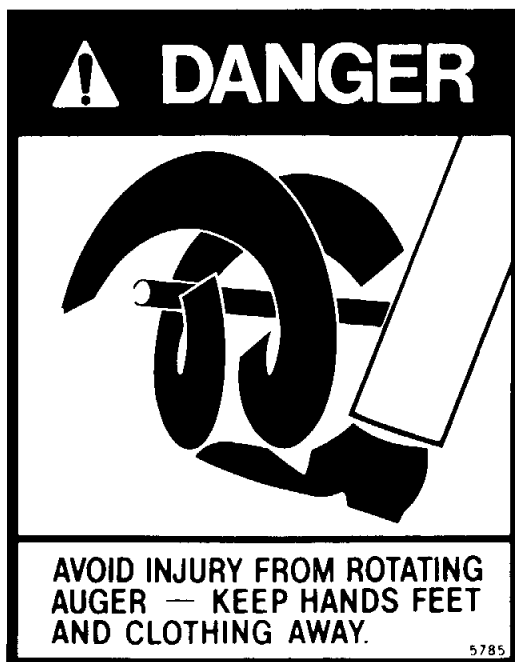
→ NOTE

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, turn choke to FULL. Repeat step one until engine starts. After engine starts, turn choke gradually to OFF.



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



BEFORE STOPPING ENGINE

1. Run engine for a few minutes before stopping to help dry off any moisture which may have accumulated on the recoil starter.
2. To help prevent possible freeze-up of recoil starter due to extreme conditions, proceed as follows.
With the engine running, pull starter rope with a rapid, continuous full arm stroke three or four times.

→ NOTE

Pulling of starter rope will produce a loud clattering sound, which is not harmful to the engine or starter.

TO STOP ENGINE

1. Pull out ignition key to stop engine.
2. Disconnect and ground the spark plug wire against the engine to prevent accidental starting 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 REVERSE position. 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 right handle) and the snow thrower will move. Release it and the drive motion will stop.

→ NOTE

NEVER move shift lever without first releasing the drive clutch.

TIRE CHAINS (Optional Equipment)

Tire chains should be used whenever extra traction is needed.

ADJUSTMENTS



WARNING

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

CHUTE ASSEMBLY ADJUSTMENT

The distance snow is thrown can be adjusted by adjusting the angle of the chute assembly. The sharper the angle, the shorter the distance snow is thrown. See figure 23.

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

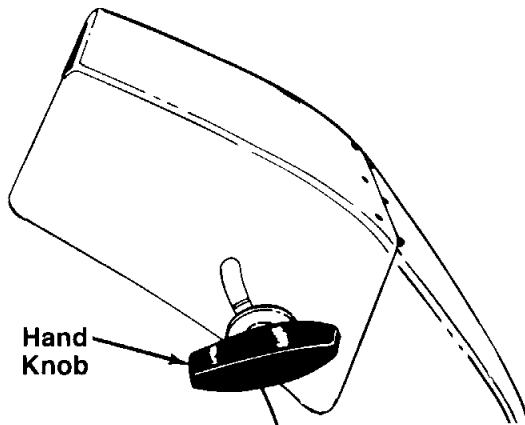


FIGURE 23.—Model 31340 Shown

SKID SHOE ADJUSTMENT

The space between the shave plate and the ground can be adjusted. Refer to step number 25 of the Assembly Instructions.

DRIVE CLUTCH ADJUSTMENT

To adjust the drive clutch, unhook the spring from the drive bracket. Refer to steps 19, 20 and 21 under Assembly Instructions for proper adjustment.

AUGER CLUTCH ADJUSTMENT

To adjust the auger clutch, disconnect the ferrule from the auger bracket as shown in figure 17. Refer to steps 22 and 23 under Assembly Instructions for proper adjustment.

SHIFT ROD ADJUSTMENT

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

CARBURETOR ADJUSTMENT



WARNING

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

The wheels on the 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 24.

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.

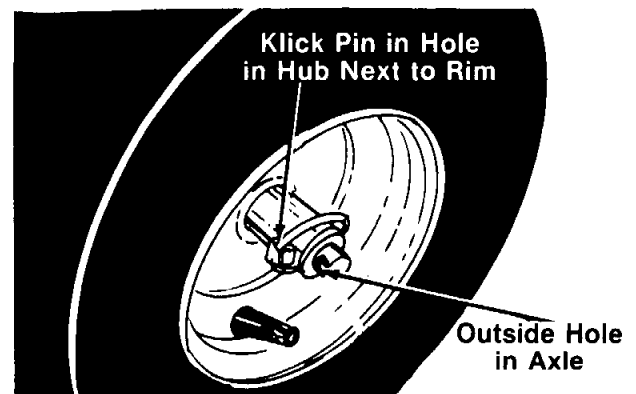


FIGURE 24.

LUBRICATION

CHAINS AND SHIFTING MECHANISM

Lubricate all chains, bearings, gears and the shifting mechanism with engine oil at least once a season or after every 25 hours of operation. See figure 25. Avoid getting oil on friction wheel and drive plate.

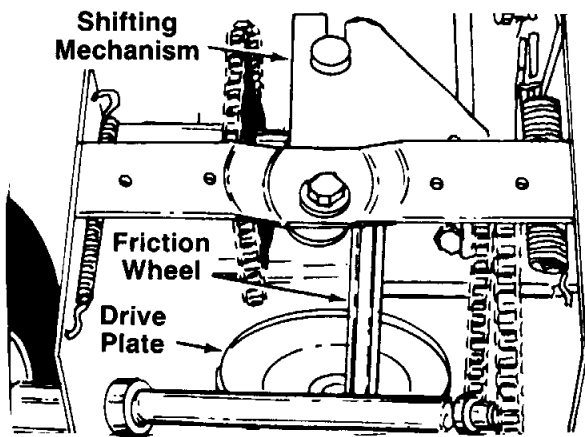


FIGURE 25.

CHUTE OPENING

Grease the chute opening once a season, using an automotive multi-purpose grease or equivalent. See figure 26.

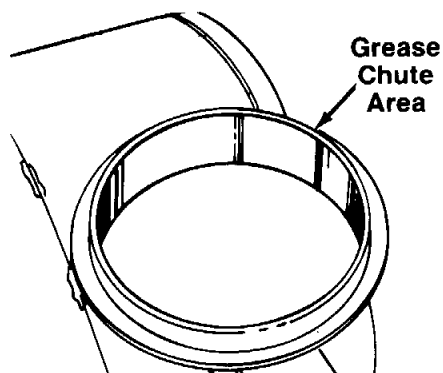


FIGURE 26.

GEAR CASE

The gear case is sealed at the factory and does not require checking. If disassembled for any reason, lubricate with 10 ounces of Shell Alvania grease EPR00, part number 737-0168.

ENGINE

Refer to engine manual for engine lubrication instructions.

MAINTENANCE



Disconnect the spark plug wire and ground against the engine before performing any repairs or maintenance.

LOWER AUGERS (Models 31353 and 31383)

The augers are secured to the spiral shaft with two hex bolts and hex lock nuts. 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 710-0890 (hex bolt 5/16-18 x 1.5" 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 are reversible for longer life.

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.

To remove shave plate, remove the carriage bolts, belleville 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.

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.

Auger Belt

1. Remove the chute crank at the chute assembly by removing the cotter pin and flat washer.
2. Remove the side and rear belt covers from the right hand side of auger housing as follows.
 - a. **Model 31340:** Remove the hex nut and belleville washer from the front of the skid shoe. Remove the two self-tapping screws shown in figure 27A.

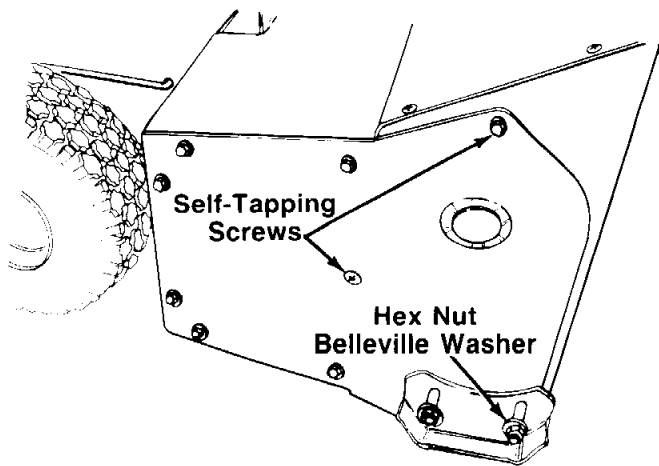


FIGURE 27A.—Model 31340

- b. **Models 31353 and 31383:** Remove the upper hex nut and lock washer on the drift cutter on the right side of the unit. Remove the hex nut and belleville washer from the front of the skid shoe. Remove two truss machine screws on top of the unit as shown in figure 27B.

NOTE

Upon reassembly, make certain spacers are on the carriage bolts inside the side cover. See figure 27B.

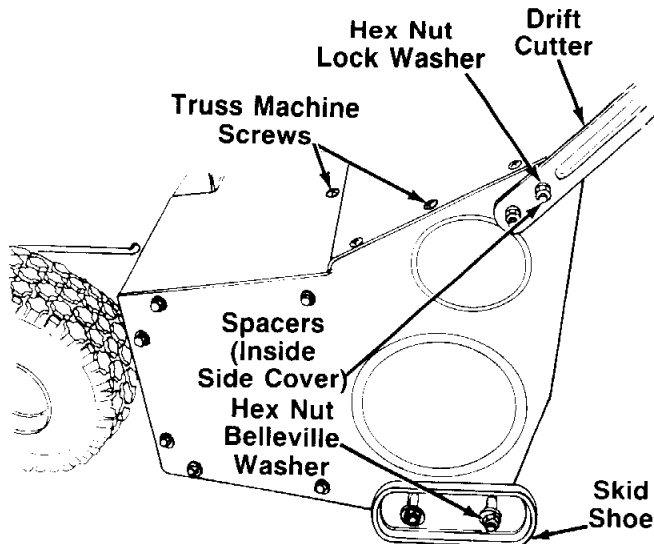


FIGURE 27B.—Models 31353 and 31383

- c. **All Models:** Remove the belt cover on the back of the auger housing by removing two self-tapping screws as shown in figure 28 on Model 31340. On Models 31353 and 31383, remove one self-tapping screw. Lift off the belt covers.

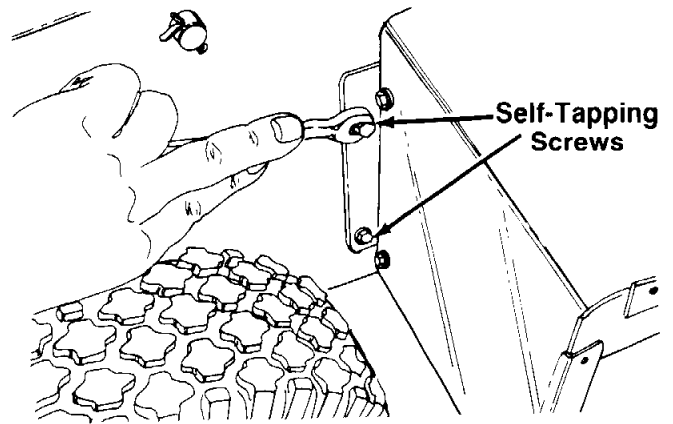


FIGURE 28.—Model 31340

3. Remove the top plastic belt cover by removing four self-tapping screws and flat washers. See figure 29.

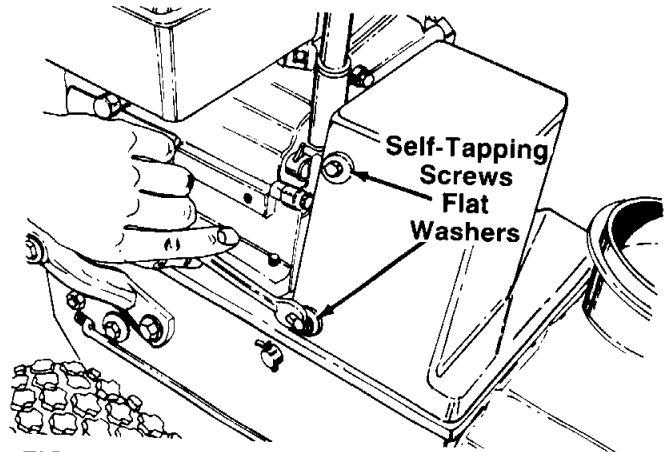


FIGURE 29.

4. Remove the top bolts which attach the auger housing to the frame assembly. A 9/16" wrench is required. See figure 30.
5. Loosen (do not remove) the bottom bolts which attach auger housing to the frame assembly. See figure 30.

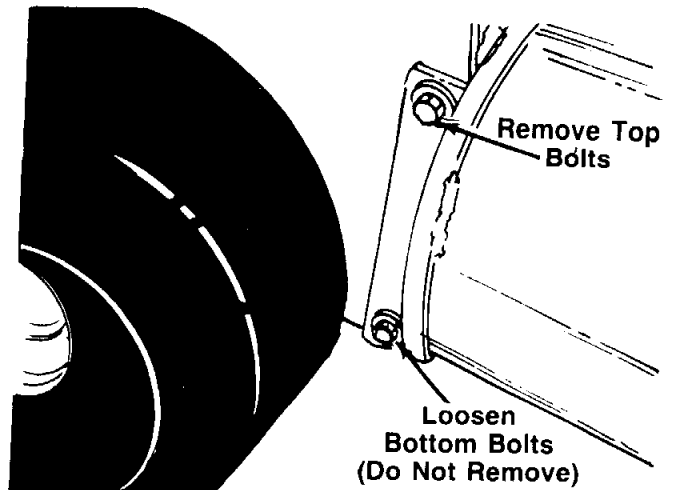


FIGURE 30

6. Remove two engine pulley belt guards. See figure 31. Disconnect the fan belt from the engine pulley.
7. Separate the auger housing from the frame assembly.

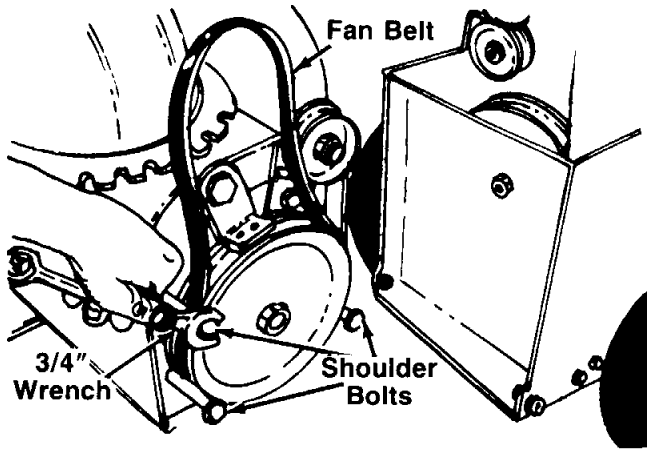


FIGURE 31.

8. Unhook the idler spring as shown in figure 32.
9. Remove the belt from the auger pulleys as follows.
 - a. **Model 31340:** Remove the center bolts from both idler pulleys. See figure 32A. Slide the auger pulleys out enough to slide belt off.
 - b. **Models 31353 and 31383:** Place a block of wood between the housing and the augers to keep the auger pulleys from turning. Remove the pulleys by turning the center hub. See figure 32B.
10. Reassemble new belt in reverse order.

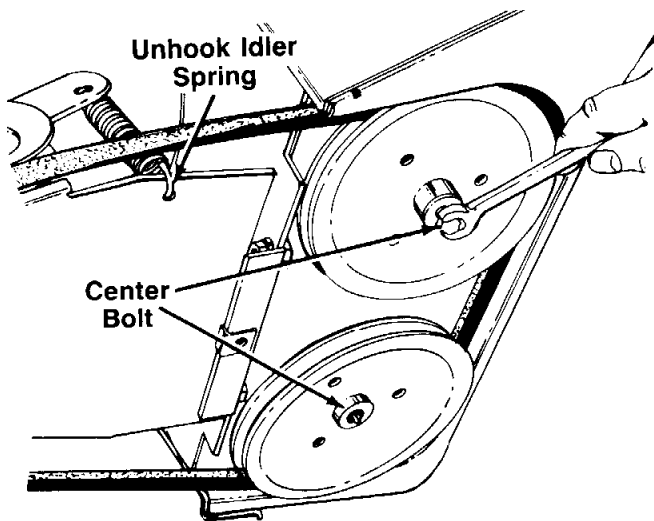


FIGURE 32A.—Model 31340

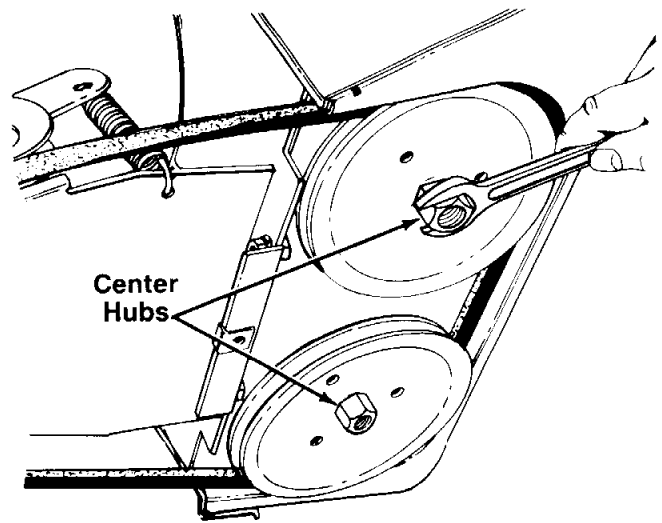


FIGURE 32B.

NOTE

When assembling new belt, make certain belt is seated on the small pulley, not behind it. See figure 33.

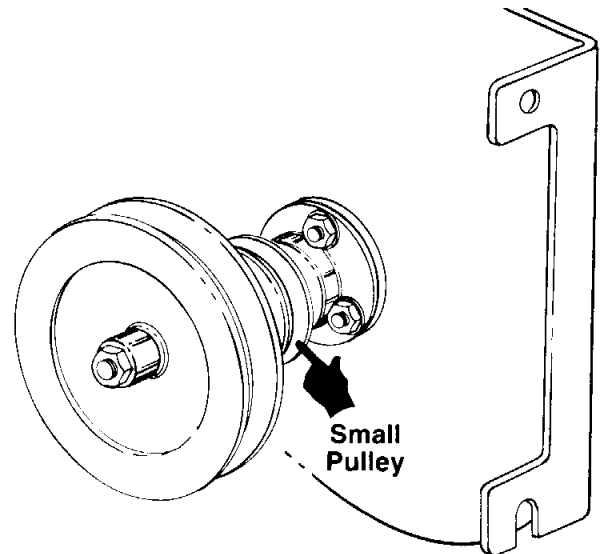


FIGURE 33.—Model 31340 Shown

Fan Belt and Drive Belt

1. Follow steps 1 through 7 of "Auger Belt" section, above.
2. To remove fan belt, remove the three shoulder bolts and belleville washers at the auger pulley. Refer to figure 31. A 3/4" wrench is required.
3. Remove and replace the auger belt.
4. To remove the drive belt, disconnect the extension spring at the engine plate. See figure 34.
5. Remove the drive belt from the engine pulley and bottom of drive pulley. See figure 34.

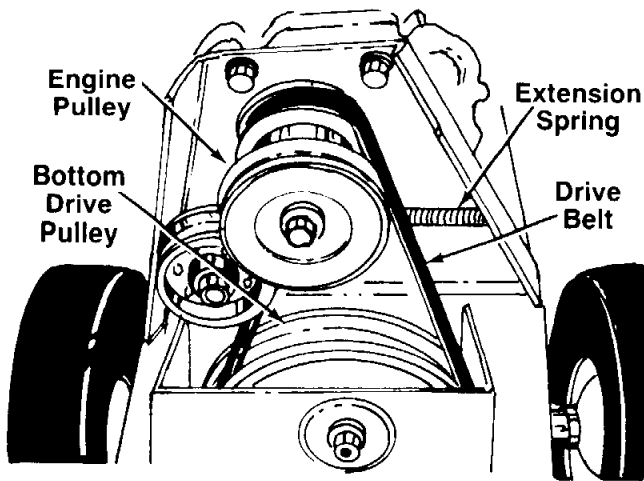


FIGURE 34.

6. Replace belt and reassemble in reverse order.
7. Reassemble the two snow thrower halves.

NOTE

Be sure the auger arm assembly pin is into slot of auger clutch bracket before inserting top bolts into auger housing and frame. See figure 35.

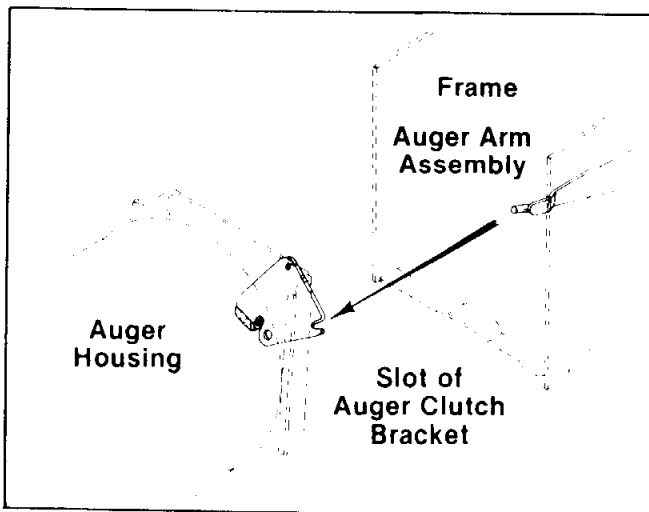


FIGURE 35.

CHANGING THE FRICTION WHEEL

1. Move the shift lever into (R) reverse position. This will move the friction wheel over to the extreme left side, inside the frame.
2. Tip the snow thrower up and forward, so that it rests on the drift cutters.
3. Remove the bottom frame cover by using a 3/8" wrench to remove the six self-tapping screws. See figure 36.

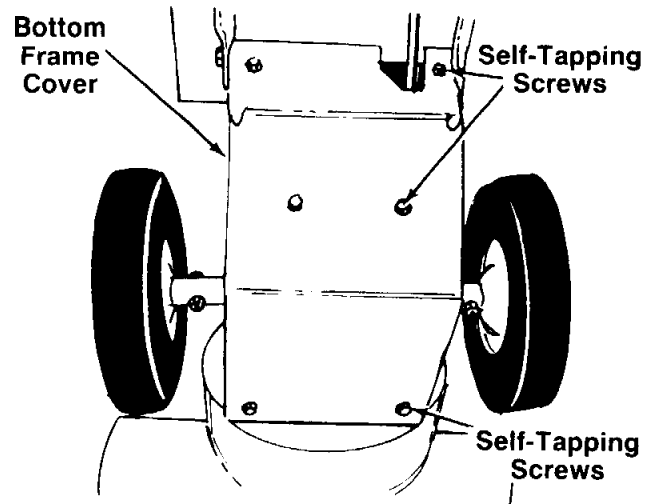


FIGURE 36.

4. Using a 1/2" wrench, remove three hex bolts holding the friction wheel to the friction wheel adapter. See figure 37.

NOTE

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

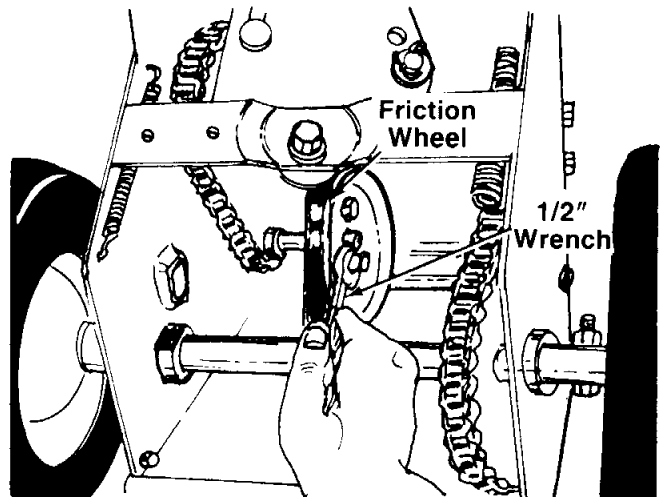


FIGURE 37.

5. Assemble the new friction wheel so the cupped side is opposite the friction wheel adapter.
6. Fasten the friction wheel to the friction wheel adapter with the three hex bolts. Tighten each nut in rotation until they are finger tight.
7. Spin the wheel to see that it is not cocked on the hub. Then, using a 1/2" wrench, tighten securely.
8. Replace the bottom frame cover.



CAUTION

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

OFF-SEASON STORAGE



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.

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



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

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. Clean unit by removing any dirt from exterior of engine and equipment.
4. Follow lubrication recommendations on page 13.



NOTE

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

Trouble Shooting Chart

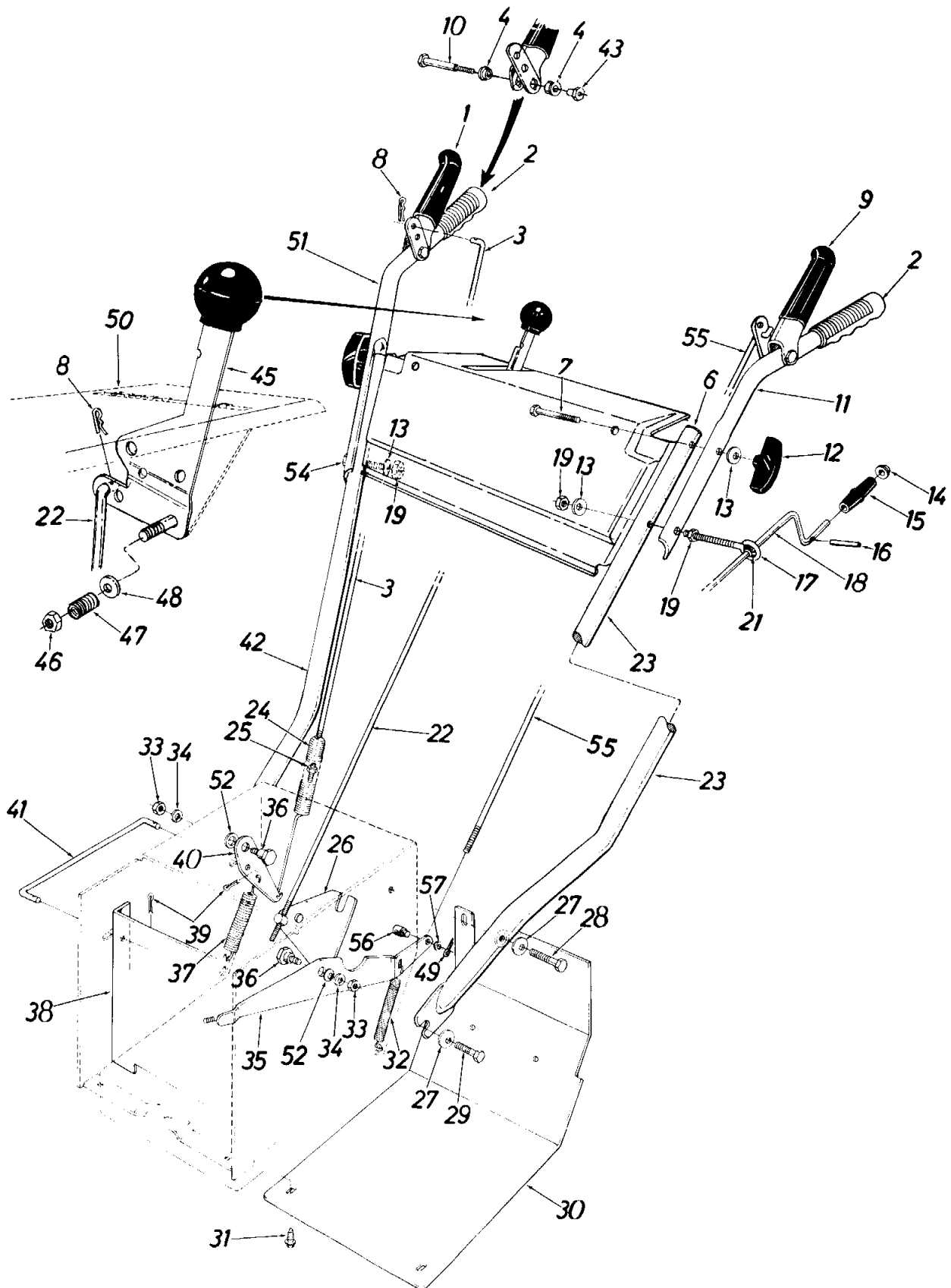
Problem	Possible Cause(s)	Solution
Engine fails to start	<ol style="list-style-type: none"> 1. Check fuel tank for gas. 2. Key not in switch on engine. 3. Spark plug lead wire disconnected. 4. Faulty spark plug. 	<ol style="list-style-type: none"> 1. Fill tank if empty. 2. Insert key. 3. Connect lead wire. 4. Clean, adjust gap or replace. Refer to separate engine manual.
Hard starting or loss of power	Spark plug wire loose.	Connect and tighten spark plug wire.
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. Misadjusted auger clutch cable. 2. Foreign object jammed in augers. 3. Auger belt broken. 	<ol style="list-style-type: none"> 1. Readjust auger clutch cable. See adjustment section. 2. Locate and remove foreign object. 3. 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 cable. See adjustment section. 2. Klick pins not in proper place. 	<ol style="list-style-type: none"> 1. Readjust drive clutch cable. 2. Place klick pins in wheel hub.

OPTIONAL EQUIPMENT

At the time of manufacture of snow thrower, the following optional equipment is available.

Description	Kit No.	Used on Models
110 Volt Electric Start Kit	39986 39987	31340, 31353 31383
Tire Chains: 13 x 5 15 x 6	39143 39145	31340, 31353 31383
Snow Shield	39674	All
Drift Cutter Kit	39679	All
Replacement Skid Shoe Kit	39680	31353, 31383
Headlight Kit	39255	31383

31340, 31353 and 31383



31340, 31353 and 31383

PARTS LIST FOR MODELS 31340, 31353 AND 31383 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.		32	732-0320		Extension Spring .38" O.D. x 3.25" Lg.	
2	720-0180		Hand Grips					Hex Jam Nut 3/8-16 Thd.	
3	746-0367		Lockout Cable—30.5" Lg.		33	712-0342		L-Wash. 3/8" I.D.*	
4	741-0402		Hex Flange Brg.—Plastic .38" I.D.		34	736-0169		Auger Clutch Brkt. Ass'y.	
6	731-0496		Plastic Plug		35	784-5050		Shld. Bolt .625" Dia. x .170" Lg. (3/8-16)	
7	710-0487		Carriage Bolt 5/16-18 x 2.0" Lg.		36	738-0281		Extension Spring .38" O.D. x 3.25" Lg.	
8	714-0104		Internal Cotter Pin		37	732-0320		Drive Pulley Support Brkt. Ass'y.	
9	05987		Clutch Grip Ass'y.—L.H.		38	05878		Cotter Pin 3/32" Dia. x .75" Lg.*	
10	738-0560		Shld. Bolt .374" Dia. x 1.53" Lg.		39	714-0507		Drive Clutch Brkt.	
11	749-0593		Upper Handle Half—L.H.		40	05501		Drive Clutch Rod	
12	09966		Hand Knob		41	10080		Lower Handle Half—R.H.	
13	736-0242		Belleville Wash. 5/16" I.D.		42	749-0344		Shld. Nut 1/4-20 Thd.	
14	726-0100		Push Nut 3/8" Rod		43	738-0561		Shift Handle Ass'y.	
15	720-0201		Knob 3/8" I.D.		45	05805		Hex Ins. Jam L-Nut 3/8-24 Thd.	
16	715-0138		Roll Pin .12 Dia. x .63" Lg.		46	712-0116		Compression Spring .38" O.D. x .88" Lg.	
17	747-0416		Eyebolt		48	736-0105		Bell-Wash. .40 I.D. x .88 O.D. x .060	
18	05980		Chute Crank Ass'y.		49	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.	
19	712-0267		Hex Nut 5/16-18 Thd.*		50	784-5139		Handle Panel Ass'y.	
21	741-0475		Plastic Bushing		51	749-0594		Upper Handle Half—R.H.	
22	747-0356		Shifting Rod		52	736-0219		Bell-Wash. .38 I.D. x 1.12" O.D. x .02	
23	749-0343		Lower Handle Half—L.H.		54	710-0116		Hex Bolt 5/16-18 x 2" Lg.	
24	732-0184		Extension Spring .75" O.D. x 5.0" Lg.		55	746-0435		Lockout Cable—36" Lg.	
25	712-0324		Hex Ins. L-Nut 1/4-20 Thd.		56	711-0736		Adjustment Ferrule	
26	05898		Shifting Linkage Bracket		57	736-0264		FI-Wash. .33" I.D. x .63" O.D.	
27	736-0105		Belleville Wash. .40 I.D. x .88 O.D. x .060						
28	710-0427		Hex Bolt 3/8-16 x 2.0" Lg.*						
29	710-0623		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x .75" Lg.						
30	05899	621	Frame Cover						
31	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" 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.

(621—Brilliant Fire Mist) If color or finish is important when ordering parts, use the appropriate color code shown at left [i.e. (part no.)-621 for Brilliant Fire Mist Finish].

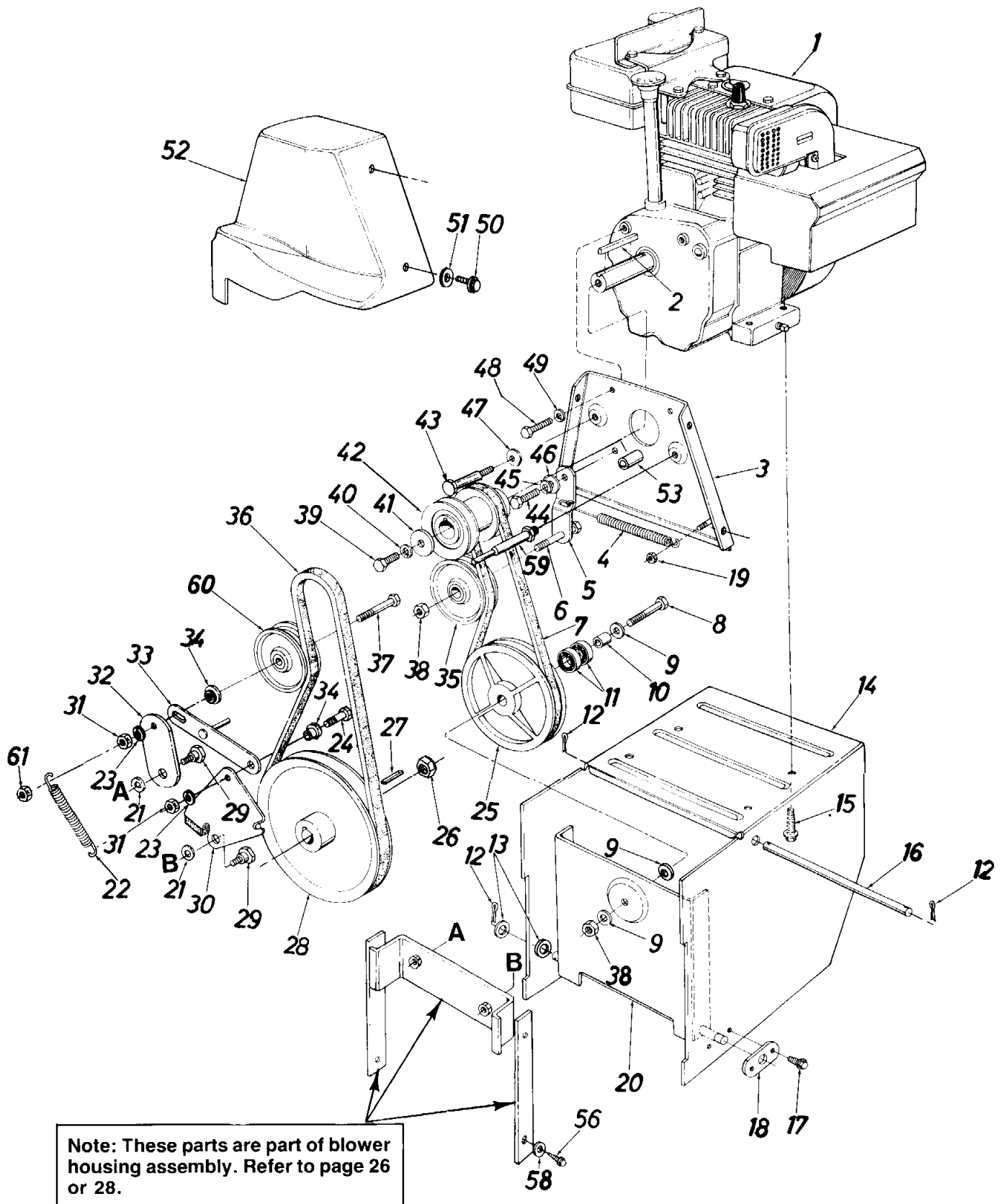
The engine is not under warranty by the snow thrower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



NOTE

Specifications subject to change without notice or obligation.

31340, 31353 and 31383



31340, 31353 and 31383

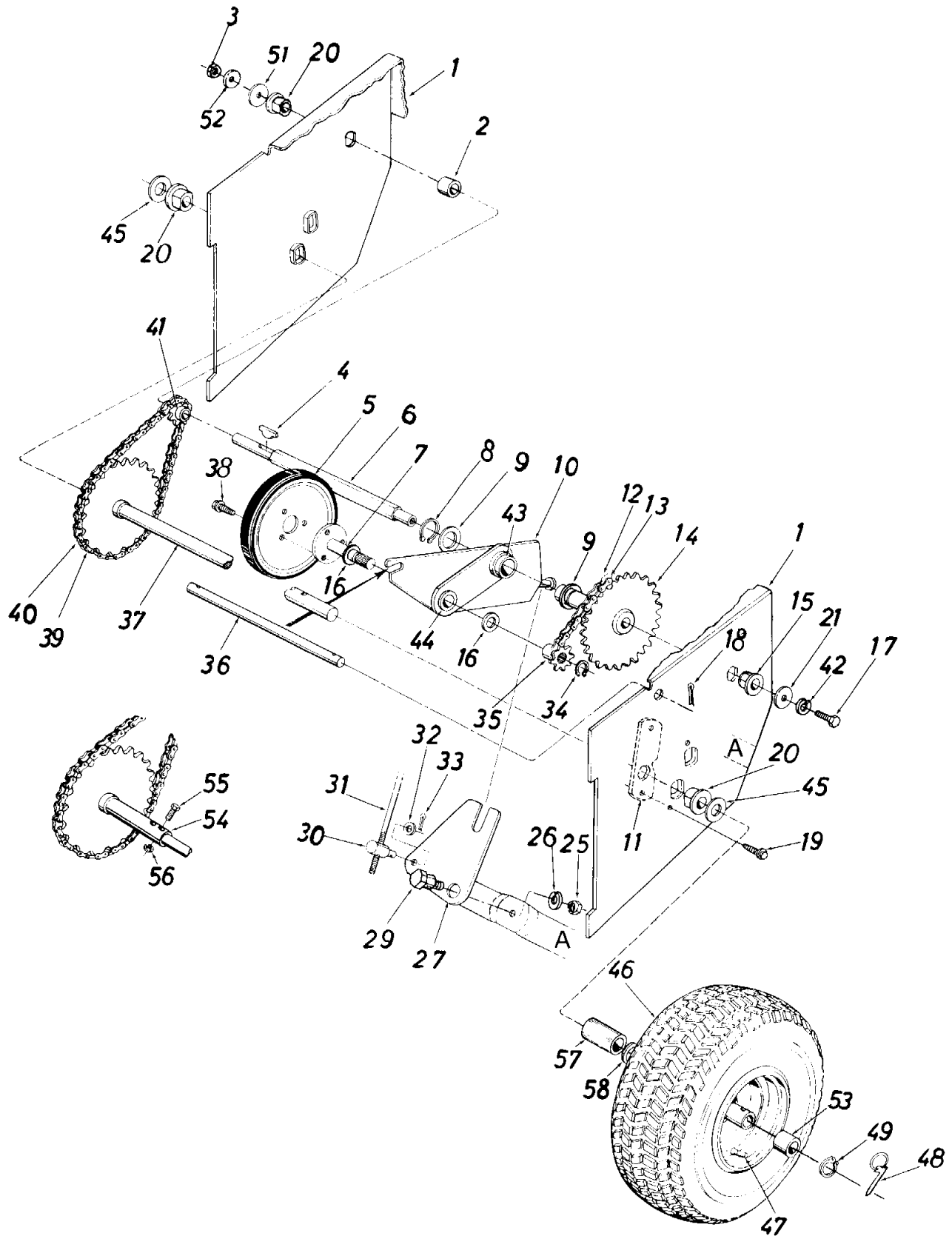
PARTS LIST FOR MODELS 31340, 31353 AND 31383 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine		30	784-5048		Brake Bracket Ass'y.	
2	714-0133		Sq. Key 3/16" x 1.5" Lg. (31340 & 31353)		31	712-0342		Hex Ins. L-Nut 3/8-16 Thd.	
	714-0114		Sq. Key 1/4" x 2" Lg. (31383)		32	05895		Auger Clutch Idler Brkt.	
3	05872		Engine Plate Ass'y.		33	784-5245		Brake Linkage Ass'y.	
4	732-0429		Extension Spring .50" O.D. x 3.97" Lg.		34	738-0347		Shld. Spacer .625" I.D.	
5	05896		Drive Clutch Idler Brkt.		35	756-0137		Flat Idler 2.25" O.D.	
6	710-0191		Hex Bolt 3/8-24 x 1.25" Lg.*		36	754-0282		"V"-Belt	
7	754-0256		"V"-Belt		37	710-0427		Hex Bolt 3/8-16 x 2.00" Lg.*	
8	710-0459		Hex Bolt 3/8-24 x 1.50" Lg.*		38	712-0116		Hex Ins. Jam L-Nut 3/8-24 Thd.	
9	736-0105		Bell-Wash. .40" I.D. x .88" O.D. x .06		39	710-0459		Hex Bolt 3/8-24 x 1.50" Lg.	
10	711-0396		Spacer .38" I.D. x .62" O.D. x .75" Lg.		40	736-0169		L-Wash. 3/8" I.D.*	
11	741-0155		Ball Brg. .62" I.D. x 1.38" O.D. x .44		41	736-0247		Bell-Wash. .40" I.D. x 1.25" O.D. (31340 & 31353)	
12	714-0507		Cotter Pin 3/32" Dia. x .75"*			736-0242		Bell-Wash. .345" I.D. x .89" O.D. (31383)	
13	736-0272		FI-Wash. .53" I.D. x 1.00" O.D. x .125		42	756-0421		Double Groove Engine Pulley (31340 & 31353)	
14	784-5266		Frame Ass'y.			756-0241		Engine Pulley (31383)	
15	710-0502		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x 1.25" Lg.		43	738-0215		Shld. Scr. .498" x 3.0" Lg. (31340 & 31353)	
16	738-0497		Shaft .50" Dia. x 9.50" Lg.			711-0769		Stud 3/8-16 x 3.37" Lg. (31383)	
17	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.		44	710-0117		Hex Bolt 5/16-24 x 1.0" Lg.*	
18	05897		Axle Bracket		45	736-0119		L-Wash. 5/16" I.D.*	
19	712-0107		Hex L-Nut 1/4-20 Thd.		46	748-0234		Shld. Spacer .320" I.D.	
20	05878		Drive Pulley Support Brkt. Ass'y.		47	736-0105		Bell-Wash. .40" I.D. x .88"	
21	736-0219		Bell-Wash. .40" I.D. x 1.13" O.D.		48	710-0237		Hex Bolt 5/16-24 x .62" Lg.*	
22	732-0550		Extension Spring .5" O.D. x 4" Lg.		49	736-0119		L-Wash. 5/16" I.D.*	
23	736-0169		L-Wash. 3/8" I.D.*		50	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.	
24	710-0723		Hex Bolt 3/8-16 x 1.25" Lg.*		51	736-0173		FI-Wash. .28" I.D. x .75" O.D. x .06	
25	05921		6.00" O.D. Drive Pulley Ass'y. (Incl. Ref. #11)		52	731-0642		Belt Cover	
26	712-0923		Hex Jam Cent. L-Nut 5/8-18 Thd.		53	750-0456		Spacer (31340 & 31353)	
27	714-0122		Sq. Key 3/16 x .75" Lg.		56	710-0623		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x .75" Lg.	
28	756-0478		5/8" V-Pulley .628" I.D. x 7.50" O.D.		57	725-0954		Ignition Key (Not Shown)	
29	738-0281		Shld. Bolt .625" Dia. x .170" Lg. (3/8-16)		58	736-0217		L-Wash. 3/8" I.D.—H.D.	
					59	711-0769		Stud 3/8-16 x 3.37" Lg.	
					60	756-0225		Flat Idler 3.12" O.D.	
					61	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	

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."



31340, 31353 and 31383



31340, 31353 and 31383

PARTS LIST FOR MODELS 31340, 31353 AND 31383 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	784-5266		Frame Ass'y.		31	747-0356		Shifting Rod 5/16" Dia. x 32.50" Lg.	
2	750-0499		Spacer .50" I.D. x .75" O.D. x .78" Lg.		32	736-0264		Fl-Wash. .34" I.D. x .64" O.D. x .06	
3	712-0200		Hex Ins. L-Nut 1/2-20 Thd.		33	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
4	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		34	716-0145		Snap Ring .562" Dia. Shaft	
5	05080		Friction Wheel Ass'y.		35	713-0280		Sprocket 7 Teeth x .50" Pitch	
6	738-0496		Hex Shaft		36	738-0497		Shaft .50" Dia. x 9.50" Lg.	
7	05883		Friction Wheel Mounting Plate Ass'y.		37	713-0373		32 Teeth Wheel Axle Ass'y. (31340 & 31353)	
8	716-0102		Snap Ring 1.00" Dia. Shaft		38	738-0713		Wheel Axle (31383)	
9	736-0163		Fl-Wash. 1.00" x 1.63" O.D. x .03		39	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
10	05880		Sliding Bracket Ass'y.		40	713-0390		#420 Chain 1/2" Pitch x 35 Links	N
11	784-5250		Axle Plate 1.75" x 3/16"		41	713-0154		Master Link for #420 Chain	
12	713-0285		#41 Chain 1/2" Pitch x 35 Links		42	748-0204		8 Teeth Center Sprocket	
13	713-0723		Master Link for #41 Chain		43	736-0119		L-Wash. 5/16" I.D.	
14	713-0281		32 Teeth Sprocket Ass'y.		44	741-0476		Bearing	
15	741-0225		Hex Flange Brg. .630" I.D.		45	748-0184		Bronze Bearing	
16	736-0290		Fl-Wash. .62" I.D. x 1.00" O.D. x .06		46	736-0188		Fl-Wash. .76" I.D. x 1.49 O.D.	
17	710-0538		Hex Lock Bolt 5/16-18 x .62" Lg.		47	**		Wheel Assembly	
18	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*		48	734-0255		Air Valve	
19	710-0600		Hex Self-Tap Scr. 5/16-24 x .5" Lg.		49	714-0143		Klick Pin	
20	741-0245		Hex Flange Brg. .751" I.D.		50	716-0101		Snap Ring .75 Dia.	
21	736-0231		Fl-Wash. .34" I.D. x 1.12" O.D. x .125		51	736-0257		Fl-Wash. .53 I.D. x 1.25 O.D. x .10	
25	712-0342		Hex Jam Nut 3/8-16 Thd.		52	736-0253		Bell-Wash. .50 I.D. x 1.0 O.D. x .075	
26	736-0169		L-Wash. 3/8" I.D.*		53	741-0401		Sleeve Brg.	
27	05898		Shifting Linkage Bracket		54	713-0389		30 Teeth Sprocket Hub Ass'y. (31383)	
29	738-0281		Shld. Bolt .625" Dia. x .170" Lg.		55	710-0698		Hex Bolt 1/4-28 x 1.5" (31383)	
30	711-0677		Adjustment Ferrule		56	712-0896		Hex L-Nut 1/4-28 Thd. (31383)	
					57	750-0506		Spacer .75" I.D. (31383)	
					58	736-0287		Fl-Wash. .793" I.D. (31383)	

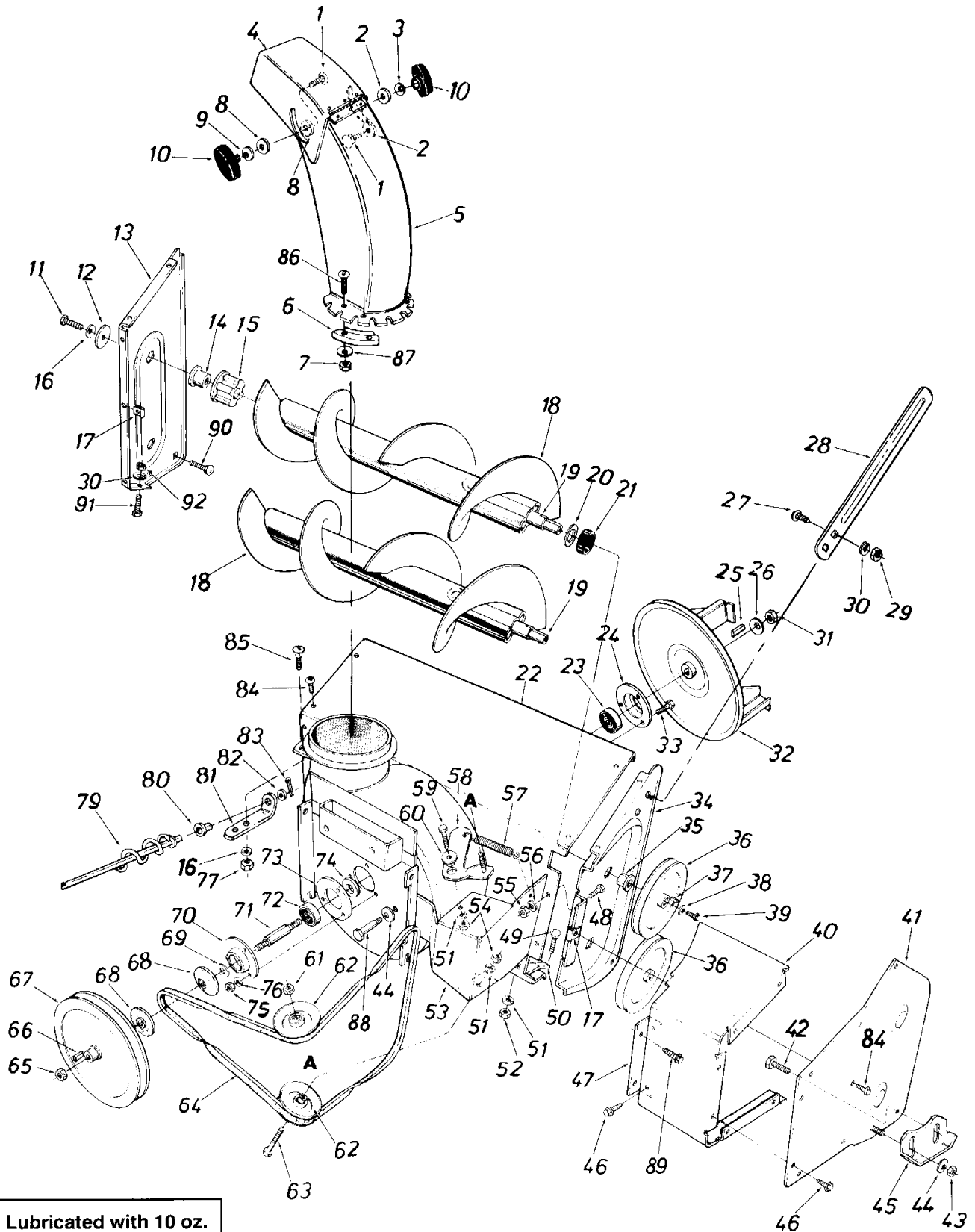
*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(621—Brilliant Fire Mist) When ordering parts if color or finish is important, use color code shown at left. (e.g. Brilliant Fire Mist Finish—05546 (621).)

**WHEEL CHART

	13 x 5.0 (31340 & 31353)	13 x 6.5 (31383)
Wheel Ass'y. Comp	734-1253	734-1417
Rim Only	734-1147	734-1145
Tire Only	734-0298	734-1375

31340



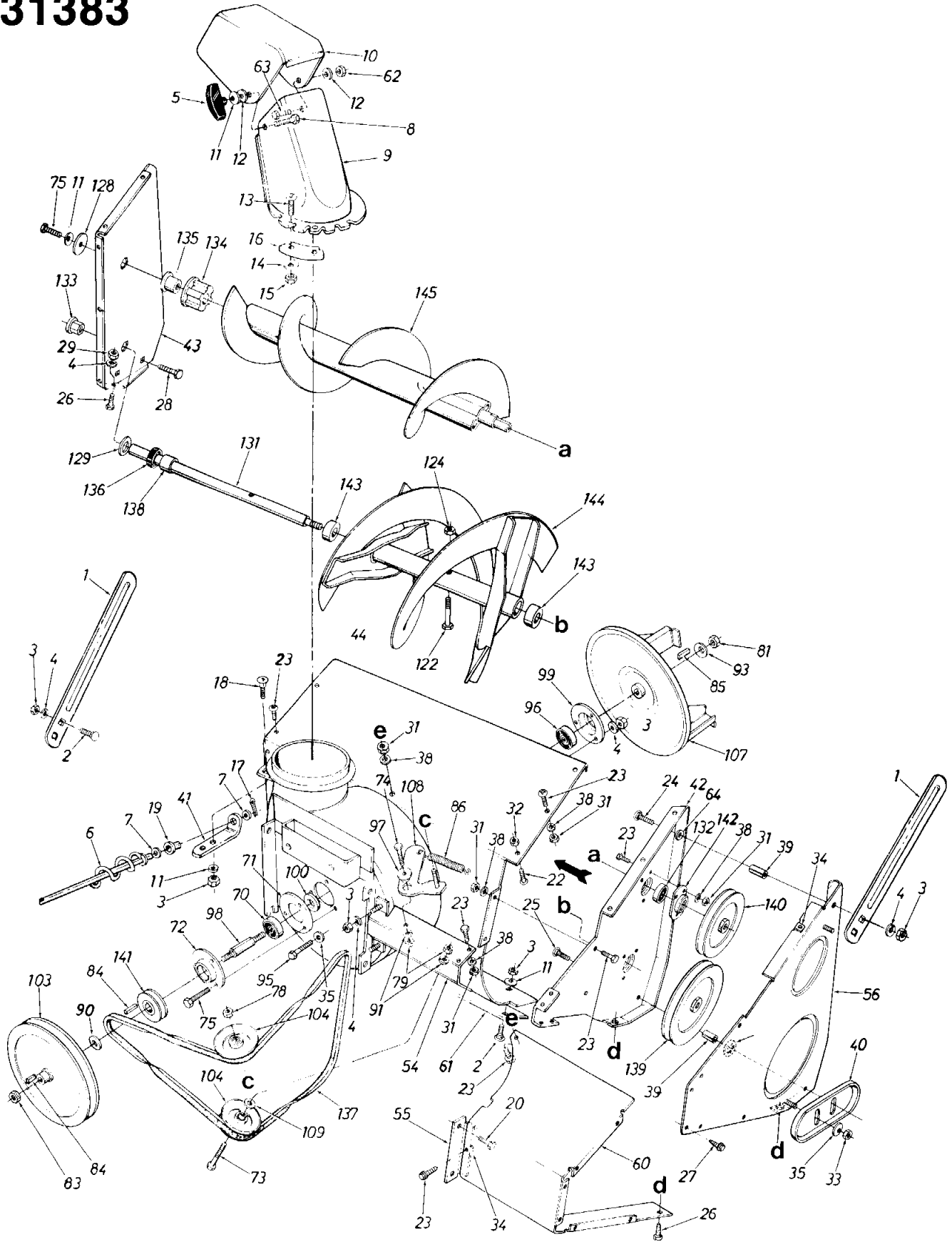
Lubricated with 10 oz.
of Shell Alvania
Grease EPR00, Part
No. 737-0168.

31340

PARTS LIST FOR MODEL 31340 SNOW THROWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0276		Carriage Bolt 5/16-18 x 1.0" Lg.*		46	710-0653		Hex Wash. Hd. Tap Scr. 1/4-20 x .38" Lg.	
2	736-0231		Fl-Wash. .344" I.D. x 1.125" O.D.		47	784-5275	621	Support Bracket	
3	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		48	710-0621		Hex Bolt 5/16-18 x .50" Lg.*	
					49	710-0260		Carriage Bolt 5/16-18 x .62" Lg.*	
4	731-0784		Upper Chute		50	784-5287		Scraper Bar Kit 22"	
5	731-0783		Lower Chute		51	736-0242		Bell-Wash. .345" I.D. x .88" O.D.	
6	731-0851		Chute Flange Keeper						
7	712-0107		Hex Patch L-Nut 1/4-20 Thd.		52	712-0267		Hex Nut 5/16-18 Thd.*	
8	736-0179		Fl-Wash. .531" I.D. x 1.25" O.D.		53	—		Part of Ref. No. 22	
					54	712-0241		Hex Nut 3/8-24 Thd.*	
9	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		55	712-0267		Hex Nut 5/16-18 Thd.*	
					56	736-0119		L-Wash. 5/16" I.D.*	
10	09966		Knob Handle Ass'y.		57	732-0494		Extension Spring .620" O.D. x 3" Lg.	
11	710-0376		Hex Bolt 5/16-18 x 1.0" Lg. (Grade 5)		58	784-5296		Idler Bracket Ass'y.	
12	736-0362		Fl-Wash. .32" I.D.		59	710-0180		Hex Bolt 3/8-24 x .75" Lg.*	
13	784-5256	621	Spiral Housing Plate—L.H.		60	738-0347		Shld. Spacer .625" I.D.	
14	748-0310		Shaft Pin 1.0" O.D. x .94		61	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
15	741-0477		Tubing Support Brg.		62	756-0166		"V"-Idler 2.62" O.D.	
16	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		63	710-0191		Hex Bolt 3/8-24 x 1.25" Lg.*	
					64	754-0296		V-Belt	
17	712-0377		Speed Clip 1/4-20		65	712-0923		Hex Cent. L-Nut 5/8-18 Thd.	
18	784-5277		Auger Ass'y. 22" x 6" Dia.		66	714-0122		Sq. Key 3/16 x .75" Lg.*	
19	—		Part of Ref. No. 18		67	756-0478		5/8" "V"-Pulley .628" I.D. x 7.50" O.D.	
20	736-0401		Fl-Wash. .760" I.D. x 1.75" O.D.		68	756-0491		3/8" "V"-Pulley Half .625" I.D. x 2.25" O.D.	
21	750-0678		Spacer 1.25" I.D. x 1.50" O.D. x .58" Thk.		69	736-0256		Fl-Wash. .635" I.D. x 1.0" O.D.	
22	784-5259	621	22" Spiral Housing Ass'y.		70	15297		Open Brg. Housing Ass'y.	
23	741-0919		Ball-Brg. .787" I.D. x 1.85" O.D. x .551		71	738-0687		Fan Spindle	
24	08253		Bearing Housing 1.85" I.D.		72	741-0919		Ball Brg. .787" I.D. x 1.85" O.D.	
25	714-0133		Sq. Key 3/16 x 1.50" Lg.*		73	14249		Spindle Reinforcement Plate	
26	736-0317		Bell-Wash. .630" I.D. x 1.25" O.D.		74	750-0674		Spacer .790" I.D. x 1.0" O.D.	
27	710-0260		Carriage Bolt 5/16-18 x .62" Lg.*		75	712-0267		Hex Nut 5/16-18 Thd.*	
					76	736-0119		L-Wash. 5/16" I.D.*	
28	05139	621	Guide Blade		77	712-0267		Hex Nut 5/16-18 Thd.*	
29	712-0267		Hex Nut 5/16-18 Thd.*		79	05980		Chute Crank Ass'y.—R.H. 39.0" Lg.	
30	736-0119		L-Wash. 5/16" I.D.*						
31	712-0318		Hex Jam Nut 5/8-18 Thd.		80	741-0475		Plastic Bushing .380" I.D.	
32	784-5274		11" Dia. Blower Fan Ass'y.		81	784-5123		Chute Crank Bracket	
33	710-0376		Hex Bolt 5/16-18 x 1.00" Lg. (Grade 5)		82	736-0140		Fl-Wash. .385" I.D. x .62" O.D.	
34	784-5257	621	Spiral Housing Plate—R.H.		83	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
35	741-0245		Hex Flange Brg. .751" I.D.						
36	756-0477		3/8" V-Pulley 5/8" I.D. x 5.5" O.D.		84	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.	
37	714-0122		Sq. Key 3/16" X .75" Lg.*		85	710-0451		Carr. Bolt 5/16-18 x .75" Lg.*	
38	736-0270		Bell-Wash. .265" I.D. x .75" O.D.		86	710-0255		Truss Mach. Scr. 1/4-20 x .75"	
					87	736-0142		Fl-Wash. .265" I.D. x .75" O.D. x .062	
39	710-0258		Hex Bolt 1/4-20 x .62" Lg.*						
40	784-5253	621	Belt Cover Top		88	738-0154		Shld. Bolt .5" Dia. x 2.11" Lg.	
41	784-5290	621	Belt Cover Side Ass'y.		89	710-0600		Hex Wash. Hd. Tap Scr. 5/16-24 x .5" Lg.	
42	710-0216		Hex Bolt 3/8-16 x .75" Lg.*						
43	712-0342		Hex Jam Nut 3/8-16 Thd.		90	710-0790		Carriage Bolt 3/8-16 x .62" Lg.	
44	736-0105		Bell-Wash. .400" I.D. x .88" O.D.		91	710-0107		Hex Bolt 5/16-24 x .5" Lg.	
					92	712-0123		Hex Nut 5/16-24 Thd.	
45	05002	621	Skid Shoe Kit						

31353
31383



31353 31383

PARTS LIST FOR MODELS 31353 AND 31383 SNOW THROWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	05139	621	Guide Blade		70	741-0919		Ball Bearing	
2	710-0260		Carriage Bolt 5/16-18 x .62" *		71	14249		Spindle Reinforcement Plate	
3	712-0267		Hex Nut 5/16-18 Thd. *		72	15297		Open Brg. Housing	
4	736-0119		L-Wash. 5/16" I.D. *					(Incl. Ref. 70)	
5	09966		Hand Knob Ass'y.		73	710-0459		Hex Bolt 3/8-24 x 1.5" Lg. *	
6	05980		Chute Crank Ass'y.		74	710-0191		Hex Bolt 3/8-24 x 1.25" Lg. *	
7	736-0140		Fl-Wash. .385" I.D. x .62"		75	710-0376		Hex Bolt 5/16-18 x 1" Lg.	
8	710-0276		Carriage Bolt 5/16-18 x 1.0"					(Gr. 5)	
9	731-0839		6" Dia. Lower Chute		78	712-0116		Hex Ins. L-Nut 3/8-24	
10	731-0845		6" Dia. Upper Chute		79	712-0241		Hex Nut 3/8-24 Thd. *	
11	736-0242		Bell-Wash. .345" I.D. x .88" O.D. x .06"		81	712-0318		Hex Jam Nut 5/8-18 Thd.	
12	736-0231		Fl-Wash. .344" I.D. x .125" O.D. x .125"		83	712-0923		Hex L-Nut 5/8-18 Thd.	
13	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.		84	714-0122		Sq. Key 3/16" x .75"	
14	736-0142		Fl-Wash. 1/4" I.D.		85	714-0133		Sq. Key 3/16" x 1.5"	
15	712-0107		Hex L-Nut 1/4-20 Thd.		86	732-0549		Ext. Spring 3/4" O.D. x 4" Lg.	
16	784-0851		Chute Flange Keeper		90	736-0156		Fl-Wash. .635" I.D.	
17	714-0507		Cotter Pin		91	736-0169		L-Wash. 3/8" I.D. *	
18	710-0451		Carriage Bolt 5/16-18 x .75" *		93	736-0317		Bell-Wash. .630" I.D.	
19	741-0475		Bushing		95	738-0154		Shld. Bolt .50" Dia. x 2.11" Lg.	
20	710-0600		Hex Self-Tap Scr. 5/16-24 x .5" Lg.		96	741-0919		Ball Bearing	
22	710-0286		Truss Mach. Scr. 1/4-20 x .5"		97	738-0347		Shld. Spacer .625 I.D.	
23	710-0289		Hex Bolt 1/4-20 x .5" Lg. *		98	738-0687		Fan Spindle	
24	710-0458		Carriage Bolt 5/16-18 x 1.75		99	741-0163		Bearing Hsg. Ass'y.	
25	710-0427		Hex Bolt 3/8-16 x 2.0"		100	750-0674		(Incl. Ref. 96)	
26	710-0118		Hex Bolt 5/16-18 x .75" Lg.		103	756-0478		Spacer .790" I.D.	
27	710-0653		Hex Self-Tap Scr. 1/4-20 x .38" Lg.		104	756-0499		5/8 V-Pulley 7.5" O.D.	
28	710-0790		Carriage Bolt 3/8-16 x .62" *		107	784-5367		V-Idler Pulley 3.5" O.D.	
29	712-0123		Hex Nut 5/16-24 Thd.		108	784-5377		11" Dia. Blower Fan Ass'y.	
31	712-0287		Hex Nut 1/4-20 Thd. *		109	736-0320		Idler Bracket Ass'y.	
32	712-0324		Hex Ins. L-Nut 1/4-20 Thd.		122	710-0890		Fl-Wash. .40" I.D.	
33	712-0342		Hex Jam Nut 3/8-16 Thd.		124	712-0429		Shear Bolt 5/16-18 x 1.5"	
34	712-0377		Speed Clip		128	736-0362		Hex Ins. L-Nut 5/16-18 Thd.	
35	736-0105		Bell-Wash. 3/8" I.D.		129	736-0401		Flat Washer .32" I.D.	
38	736-0329		L-Wash. 1/4" I.D. *		129	736-0401		Fl-Wash. .76" I.D.	
39	750-0434		Spacer .375" I.D. x 1" Lg.		131	738-0715		Spindle Shaft (31353)	
40	784-5038		Slide Shoe			738-0716		Spindle Shaft (31383)	
41	784-5123		Chute Crank Brkt.		132	741-0155		Ball Brg. .62" I.D.	
42	784-5350	621	Spiral Housing Plate—R.H.		133	741-0245		Hex Flange Brg.	
43	784-5351	621	Spiral Housing Plate—L.H.		134	741-0477		Tubing Support Brg.	
44	784-5352	621	24" Spiral Hsg. Ass'y. (31353)		135	748-0310		Shaft Pin	
	784-5353	621	26" Spiral Hsg. Ass'y. (31383)		136	750-0678		Spacer 1.25" I.D. x 1.5"	
54	784-5362		V-Channel (31353)		137	754-0338		V-Belt (31353)	
	784-5363		V-Channel (31383)			754-0339		V-Belt (31383)	
55	784-5360		Support Bracket		138	750-0696		Spacer (31383 Only)	
56	784-5373	621	Side Cover Ass'y.		139	756-0497		1/2 V-Pulley 9" O.D.	
60	784-5378		Belt Cover 6.42" (31353)		140	756-0498		1/2 V-Pulley 5.5" O.D.	
	784-5379		Belt Cover 8.42" (31383)		141	756-0500		1/2 V-Pulley 2.75" (31353)	
61	705-5036		Shave Plate (31353)			756-0495		1/2 V-Pulley 3" (31383)	
	705-5037		Shave Plate (31383)		142	784-0211		Bearing Housing	
62	712-0158		Hex L-Nut 5/16-18 Thd.		143	741-0401		Sleeve Brg. .75" I.D.	
63	710-0323		Truss Mach. Scr. 5/16-18 x .75"		144	784-5370		10" Spiral Ass'y. R.H.	
						784-5369		10" Spiral Ass'y. L.H.	
64	726-0201		Push Speed Nut		145	784-5374		(Not Shown)	
						784-5375		24" Auger Ass'y. (31353)	
					146	712-0229		26" Auger Ass'y. (31383)	
								Push Nut Bolt Retainer	N

YARD-MAN PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all YARD-MAN manufactured power equipment are available through local Authorized Service Dealers. Check the yellow pages. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required. DO NOT SEND PARTS ORDERS TO FACTORY. Service Distributors listed below, identified by state abbreviation, may be contacted for service assistance.

NC ALLISON-ERWIN CO.
SC 2920 N. Tryon Street
S VA P.O. Box 32308
Charlotte, NC 28232
(704) 334-8621

CT COBBLE MOUNTAIN SUPPLY
RI 615 West Johnson Ave.
E-MA Cheshire, CT 06410
(203) 272-1866

ME M. L. COFFIN CO.
NH 725 Broadway
Bangor, ME 04401
(207) 942-8289

MS DICKERSON DISTRIBUTORS,
AL INC.
P.O. Drawer 231
127 N. W. Depot
Durant, MS 39063
(601) 653-3004

S-FL FLORIDA TURF & GARDEN
EQUIP.
7275 NW 64th St.
Miami, FL 33166
(305) 592-3846

UP-NY GAMBLE DISTRIBUTING INC.
P.O. Box 389
West End Ave.
Carthage, NY 13619
(315) 493-2270

CO GENERATOR CITY
1845 N Federal Blvd.
Denver, CO 80204
(303) 455-2800

MI IDEAL MOWER SALES
NW-OH 811 Woodward Heights
Ferndale, MI 48220
(313) 541-4660

C-FL MANLEY TRACTOR SALES
5909 E. Broadway
Tampa, FL 33619
(813) 626-5900

WI MERCO CORP.
N-MI 4080 N. Pt. Washington Rd.
P.O. Box 12145
Milwaukee, WI 53212
(414) 961-3200

MN MERCO CORP. MINN.
7428 Washington Ave.
Eden Prairie, MN 55344
(612) 941-3550

NJ DE NIEMEYER CORP.
NY MD 1135 Phoenixville Pike
PA N-VA P.O. Box 1477
WA-DC West Chester, PA 19380-0037
(215) 431-7200

MO OZARK EQUIPMENT CO.
E-KS Hwy. 63 & Black Street
Rolla, MO 65401
(314) 364-2180

N-FL POWER EQUIP. DIST. INC.
GA 565 S. Edgewood Ave.
Jacksonville, FL 32205
(904) 387-1512

UT MT POWERED PRODUCTS
NV S-ID 1661 N. Beck St.
Salt Lake City, UT 84116
(801) 359-9767

OH RAHRIG SALES INC.
IN 108-110 W. Lima St.
Forest, OH 45843
(419) 273-2556

KY TN RASCHE CYCLE CO.
S-IL 713 Kentucky Ave.
Paducah, KY 42001
(502) 443-5698

ND ROTT-KELLER CO.
65-28th St. S.
Fargo, ND 58107
(701) 235-0563

BRIGGS & 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 **Engine—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NM HUGO SCHULTE & CO.
6666 Fourth St.
Albuquerque, NM 87107
(505) 345-2633

VT J & I SILLICH COMPANY
W-MA 311 River Dr.
Hadley, MA 01035
(413) 549-7500

SD STERN OIL CO. INC.
394 South Main
P.O. Box 218
Freeman, SD 57029
(605) 925-7999

TX TIMBERLAND SAW CO.
OK Hwy. 31 South
AR P.O. Box 1227
LA Marshall, TX 75671
(214) 935-5251

IL TRYSON DISTRIBUTING
COMPANY
670 Bonnie Lane
Elk Grove Village, IL 60007
(312) 593-3010

OR R. M. WADE & CO.
AK 10025 S. W. Allen Blvd.
Beaverton, OR 97005
(503) 641-1865

WA R. M. WADE & CO.
W-ID 5808 S. 196th St.
Kent, WA 98032
(206) 872-9233

CANADA MTD PRODUCTS CANADA
97 Kent Ave.
Kitchener, Ontario
Canada, N2G 4J1
(519) 579-5500

EXPORT DRAKE AMERICA CORP.
#2 Gannett Drive
White Plains, NY 10604
(914) 697-9800

WARRANTY PARTS AND SERVICE POLICY

(0687)

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, Serial Number and/or Data Code of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure—Date Repaired.
4. Nature of failure—Correction.