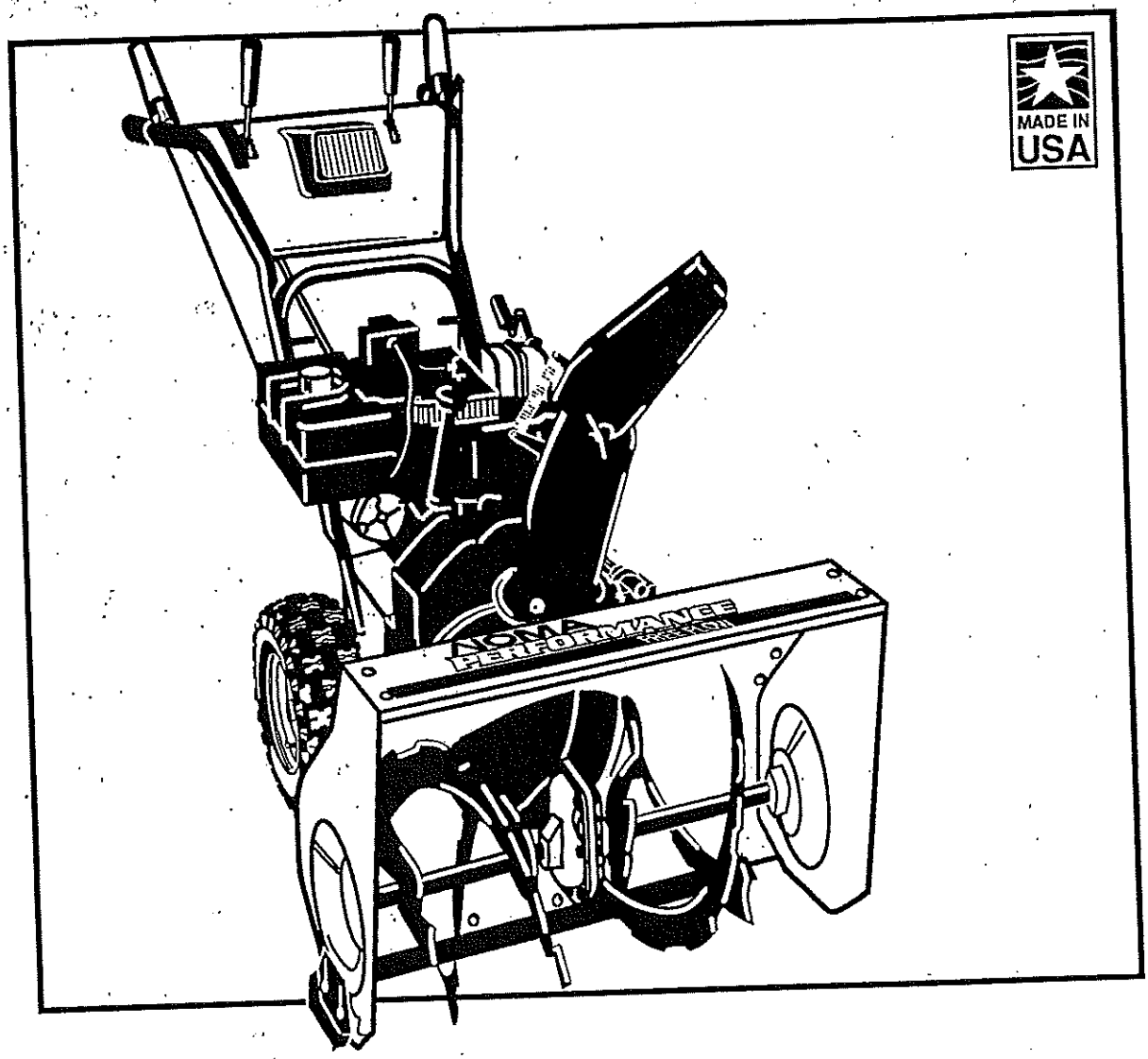
NOMA
PERFORMANCE

760023C 09/04/96

SNOWTHROWER

Models G2794010 &G2474010



• Safety Rules • Assembly • Operation
• Maintenance • Adjustments • Repair Parts

TABLE OF CONTENTS

NOTICE: Photographs and illustrations in this manual may not show your model but are for reference only.

SAFETY RULES

⚠ ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG TO PREVENT ACCIDENTAL STARTING WHEN SETTING-UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS.

IMPORTANT: SAFETY STANDARDS REQUIRE OPERATOR PRESENCE CONTROLS TO MINIMIZE THE RISK OF INJURY. YOUR SNOW THROWER IS EQUIPPED WITH SUCH CONTROLS. DO NOT ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR PRESENCE CONTROL UNDER ANY CIRCUMSTANCES.

BEFORE USE

- **Read the Owner's Manual carefully.** Be thoroughly familiar with the controls and the proper use of the snow thrower. Know how to stop the snow thrower and disengage the controls quickly.
- Do not operate the snow thrower without wearing adequate winter outer garments. Wear footwear that will improve footing on slippery surfaces.
- Keep the area of operation clear of all persons, particularly small children, and pets.
- Thoroughly inspect the area where the snow thrower is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
- Use extension cords and receptacles as specified by the manufacturer for all snow throwers with electric drive motors or with factory-installed or optional starting motors.
- Use only attachments and accessories approved by the manufacturer of the snow thrower (**such as electric starter kits, etc.**).
- 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.
- This snow thrower is for use on sidewalks, driveways, and other ground level surfaces. **Do not attempt to clear on steep sloping surfaces. DO NOT USE SNOW THROWER ON SURFACES ABOVE GROUND LEVEL** such as roofs of residences, garages, porches or other such structures or buildings.
- Check all bolts at frequent intervals for proper tightness to be sure the snow thrower is in safe working condition.
- Disengage clutch and shift into neutral before starting the engine.
- Let engine and snow thrower adjust to outdoor temperatures before starting to clear snow.

FUEL SAFETY

- Handle fuel with care; it is highly flammable.
- Use an approved fuel container.
- Check fuel supply before each use, allowing space for expansion as the heat of the engine and/or sun can cause fuel to expand.
- Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
- Replace fuel tank cap securely and wipe up spilled fuel.
- Never remove fuel tank cap or add fuel to a running engine or hot engine.

- Never store fuel or snow thrower with fuel in the tank inside a building where fumes may reach an open flame or spark.

OPERATING SAFETY

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Never operate the snow thrower without proper guards, plates or other safety protective devices in place.
- Never allow children or young teenagers to operate the snow thrower and keep them away while it is operating. never allow adults to operate the snow thrower without proper instruction.
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the snow thrower.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Do not clear snow across the face of slopes. Exercise caution when changing direction on slopes. Do not attempt to clear steep slopes.
- Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-offs, and the like without proper adjustment of the snow discharge angle. Keep children and pets away.
- Never operate the snow thrower at high transport speeds on slippery surfaces. Look behind and use care when backing.
- Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous (containing **CARBON MONOXIDE**, an **ODORLESS** and **DEADLY GAS**).
- Take all possible precautions when leaving the snow thrower unattended. Disengage the auger/impeller, stop engine, and remove key.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Never direct discharge at bystanders or allow anyone in front of the unit.
- Do not operate the machine while under the influence of alcohol or drugs or when very tired.
- Do not operate this machine if you are taking drugs or other medication which can cause drowsiness or affect your ability to operate this machine.
- Do not use this machine if you are mentally or physically unable to operate this machine safely.

SAFE STORAGE

- Always refer to Owner's Manual instructions for important details if the snow thrower is to be stored for an extended period.
- Disengage power to the auger/impeller when snow thrower is transported or not in use.
- Never store the snow thrower with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.

REPAIR/ADJUSTMENTS SAFETY

- After striking a foreign object, stop the engine (motor) and remove the wire from the spark plug, or disconnect the cord from electric motor. to prevent accidental starting. Thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
- If the snow thrower should start to vibrate abnormally, stop the engine (**or electric motor**) and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine (or electric motor) whenever you leave the operating position, before unclogging the auger/impeller housing or discharge guide, and when making any repairs, adjustments, or inspections. Disconnect the spark plug and keep the wire away from the plug or disconnect cord from electric motor.
- When cleaning, repairing, or inspecting, make certain the auger/impeller and all moving parts have stopped. Disconnect the spark plug and keep the wire away from the plug to prevent accidental starting.

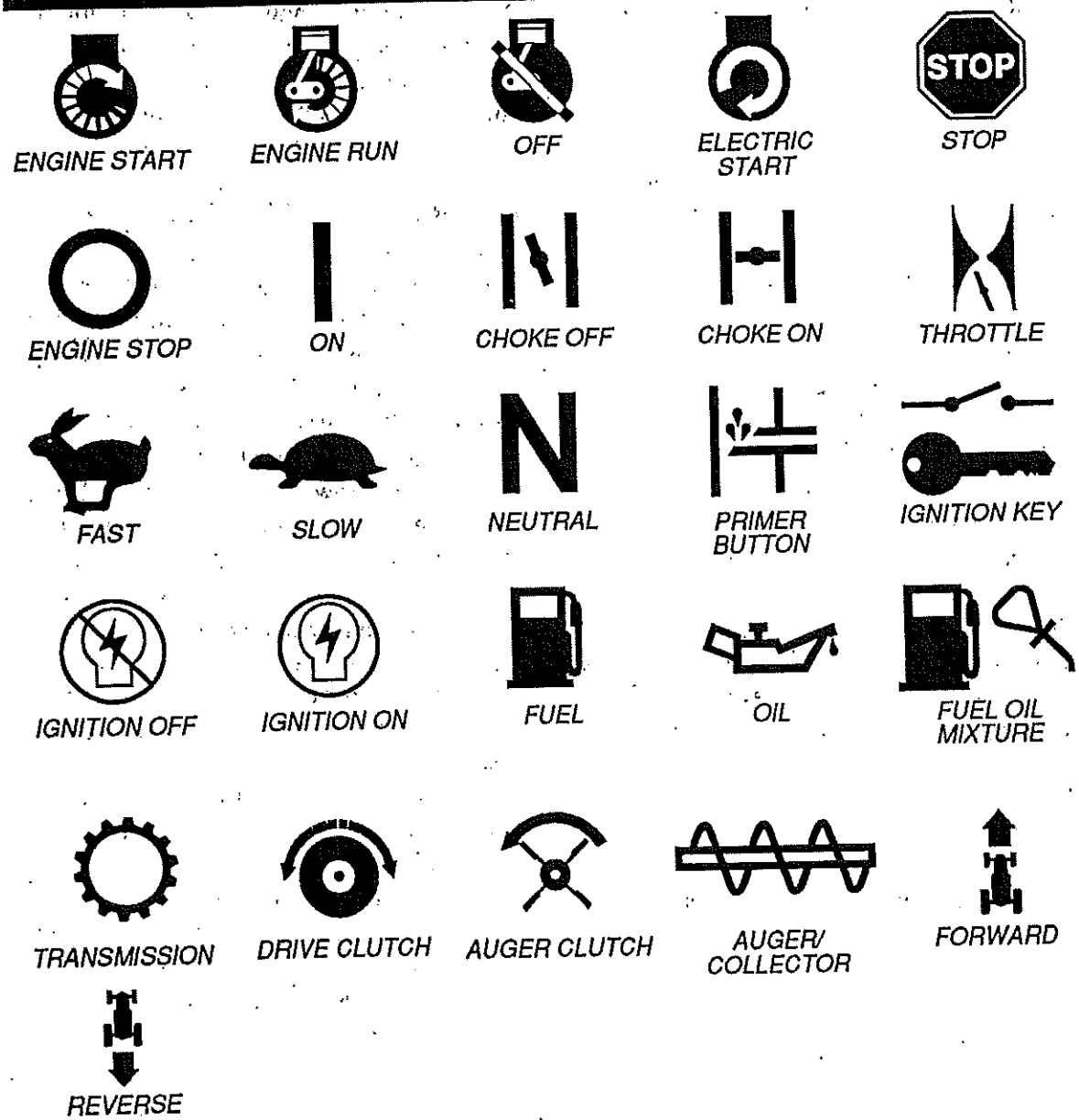
- Never attempt to make any adjustments while the engine is running (**except when specifically recommended in this manual or the engine manual**).
- Maintain or replace safety and instruction labels, as necessary.
- Run the snow thrower a few minutes after throwing snow to prevent freeze-up of the auger/impeller.

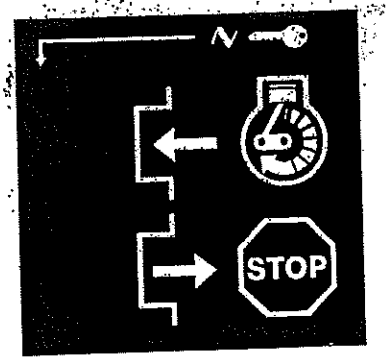
⚠ LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS--ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

⚠ California Proposition 65 WARNING!

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

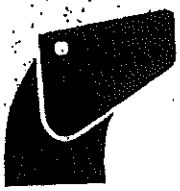
SYMBOLS



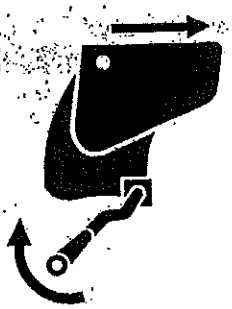


IGNITION KEY INSERT TO RUN PULL OUT TO STOP

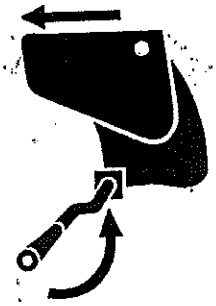
DISCHARGE CHUTE - UP POSITION



DISCHARGE CHUTE - DOWN POSITION

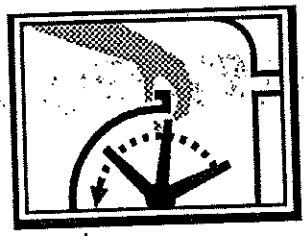


DISCHARGE CHUTE - TURN RIGHT



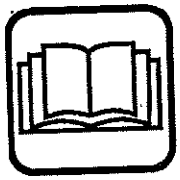
DISCHARGE CHUTE - TURN LEFT

KEEP HANDS, FEET, AND CLOTHING AWAY!

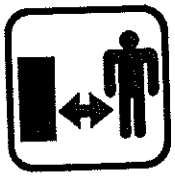


DO NOT USE HANDS TO UNCLOG DISCHARGE CHUTE.

CAUTION



READ OWNER'S MANUAL



KEEP BYSTANDERS AWAY

BEWARE OF THROWN OBJECTS

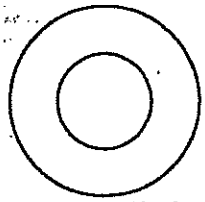
HOT SURFACE

CONTENTS OF SHIPPING CARTON

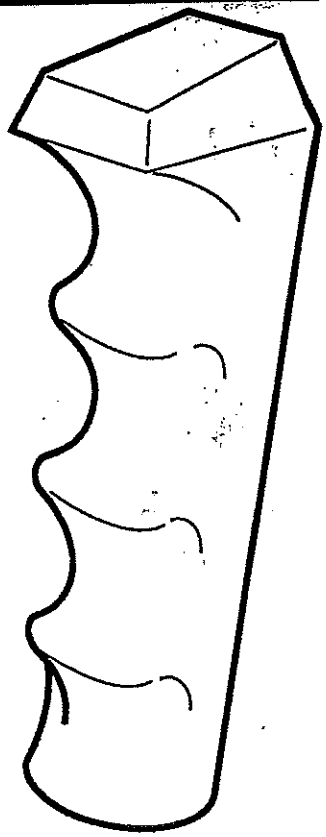
1- Snow Thrower
1- Crank Assembly
1- Owner's Manual (**Not Shown**)
1- Parts Box Containing:
   1 - Container of 5W30 Oil
   1 - Electric Starter Cord 9.5 Ft. **(if equipped with electric start)**
1 - Bag of Assembly Parts

CONTENTS OF PARTS BAG

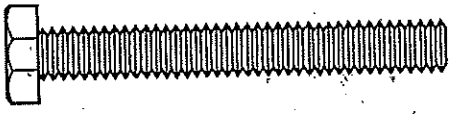
*2 - Spare 1/4 - 20 Locknuts



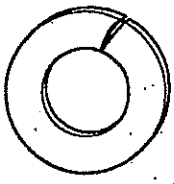
2 - 3/8 Inch Flat Washers



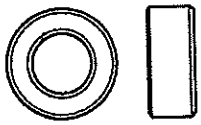
2 - Knobs



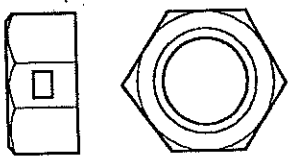
*2 - Spare Shear Bolts (1/4-20 x 1-3/4 In.)



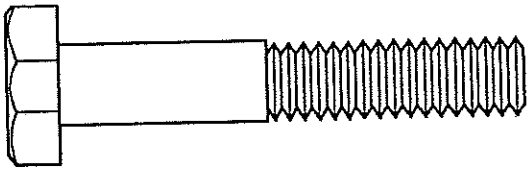
1 - 3/8 Inch Lockwasher



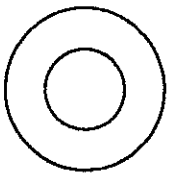
*2 - Spare Spacers



3 - 3/8 - 16 Hex Nut



1 - 3/8-16 x 2 Inch Hex Head Screw



2 -11/32 Inch Flat washer

2 - Cotter Pin

*Non-Assembly Parts

ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

1- Knife (**to cut carton and plastic ties**)
2- 1/2 inch Wrenches (**or adjustable wrenches**)
2- 9/16 inch Wrenches (**or adjustable wrenches**)
2- 3/4 inch Wrenches (**or adjustable wrenches**)
1- Pair Pliers or Screw Driver (**to spread cotter pin**)

FIG. 1-ASSY shows the snow thrower in the shipping position.

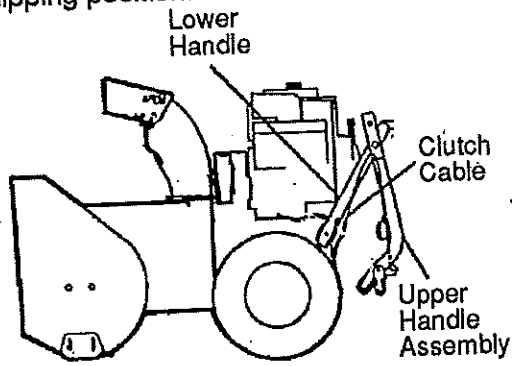


FIG. 1-ASSY

FIG. 2-ASSY shows the snow thrower completely assembled.

Reference to the right and left hand side of the snow thrower is from the operator's position at the handle.

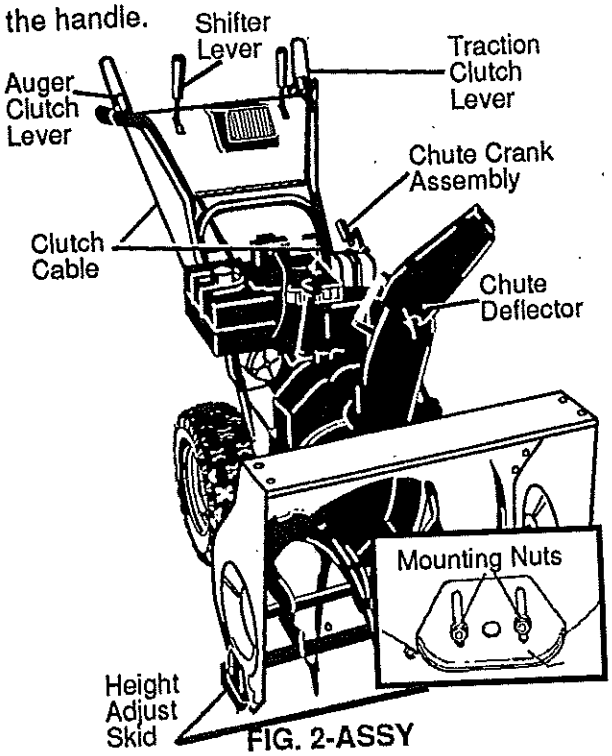


FIG. 2-ASSY

TO REMOVE SNOW THROWER FROM CARTON (See FIG. 1-ASSY)

- Locate and remove loose parts from carton.
- Remove top pallet from carton.
- Cut and discard the plastic ties that secure the crank assembly to the pallet and place the assembly aside.
- Cut all four corners of the carton from top to bottom and lay the panels flat.
- Cut the bands holding the snow thrower to the lower pallet.
- Remove the packing material from the control panel and upper handle assembly.
- Loosen (**do not remove**) both bolts securing the upper and lower handles. Swing the upper handle into the operating position.
- Cut and discard the packing ties securing the clutch cables to the lower handle.

NOTE: If the cables have become disconnected from the clutch levers, reinstall the cables as shown in **FIG. 3-ASSY.** **NOTE:** Make sure the cables are not caught between the upper and lower handle.

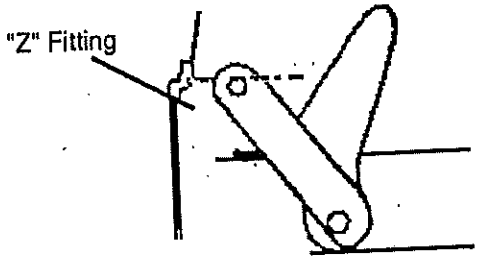


FIG. 3-ASSY

- Tighten two upper handle bolts securely.
- Roll the snow thrower off the skid by pulling on the handle.

HOW TO SET UP YOUR SNOW THROWER

TO SET THE SKID HEIGHT

- Your snow thrower is equipped with height adjust skids (**See FIG. 2-ASSY**) on the outside of the auger housing. To adjust the skid height for different conditions, (**See To Adjust Skid Height paragraph in the Service & Adjustments section of this manual**).

CAUTION: If you are removing snow from any rocky or uneven surfaces, raise the front of the snow thrower by moving the skids down. This will help to prevent rocks and other debris from being picked up and thrown by the auger.

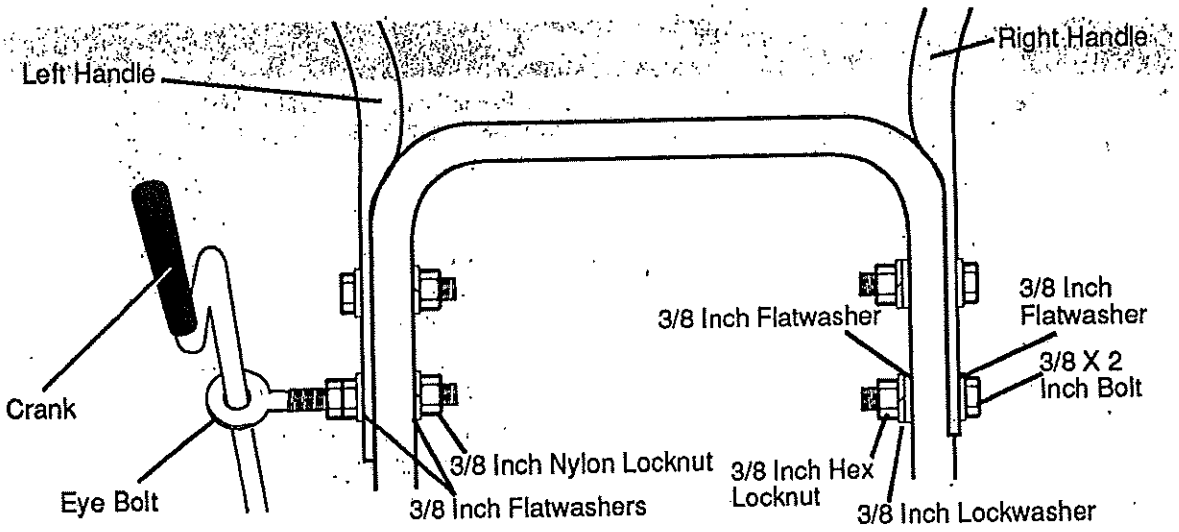


FIG. 4-ASSY

TO INSTALL THE CRANK ASSEMBLY

- On the right side of the handle, install the following (**found in parts bag**) in the lower hole as shown in **FIG. 4-ASSY:**
  - **1** - 3/8 x 2 inch bolt
  - **2** - 3/8 inch flatwashers
  - **1** - 3/8 inch lockwasher
  - **1** - 3/8 inch Hex Locknut
- Remove one 3/8" nylon locknut and flatwasher from the "**eye**" bolt assembly (**on the chute crank assembly**).
- Install "**eye**" bolt through lower hole on the left hand side of the handle (**See FIG. 4-ASSY for order of hardware**).
- Install the 3/8" flatwasher and the 3/8" nut loosely on the "**eye**" bolt, as shown.
- Carefully remove cotter pin, clevis pin and universal joint pin from yoke end of crank rod assembly. **See FIG. 5-ASSY.**
- Place universal joint into end of worm gear lining up large holes. Insert drilled pin (**ensure opening in pin is in line with small openings in universal joint**).
- Place yoke end of crank rod around universal joint, lining up openings. Insert clevis pin through assembly and secure with cotter pin. Spread ends of cotter pin to lock in place.
- Tighten the "**eye**" bolt installed earlier.
- Tighten all handle bolts (**See FIG. 4-ASSY**).
- Rotate the chute crank fully clockwise and fully counter-clockwise.

TO INSTALL KNOB

- Thread the hex nut onto the threaded end of the lever. **SEE FIG. 6-ASSY.**
- Thread the knob onto the threaded end of the lever until it is snug against the hex nut and the lip is pointed toward the engine. Tighten the hex nut against the bottom of the lever knob to lock in position.

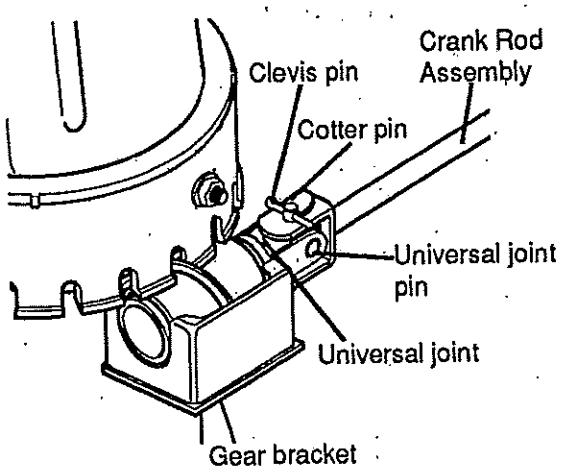


FIG. 5-ASSY

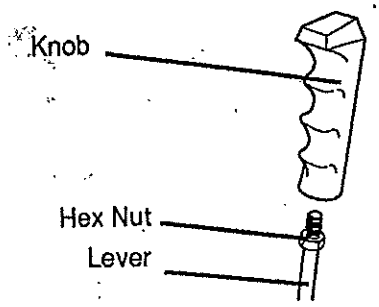


FIG. 6-ASSY

TO INSTALL THE SHIFTER ROD

- Attach shift rod, set aside earlier, to the shifter lever with one (1) flatwasher and (1) cotter pin **(found in parts bag) (See FIG. 7-ASSY).**
- Place shift lever into sixth gear position. Rotate speed rod on rear of motor frame

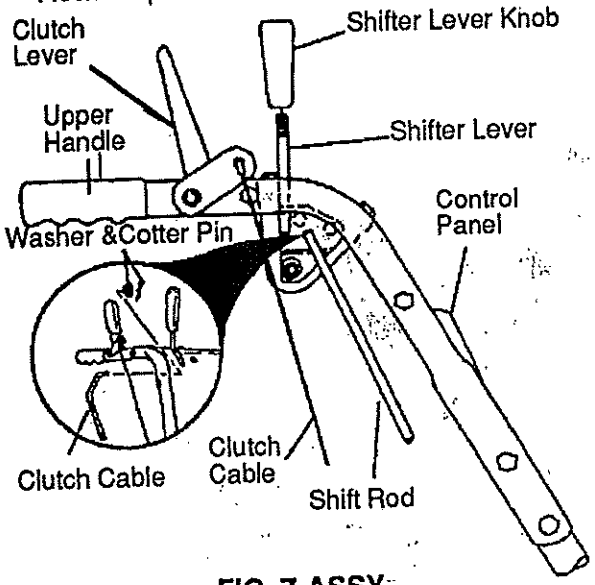


FIG. 7-ASSY

counterclockwise down until it stops.

- Align trunnion nut on end of shift rod with the hole in the speed rod. **NOTE:** Shift rod has been pre-adjusted at the factory, if trunnion nut does not align with hole in speed rod, twist trunnion nut up or down on shift rod until it does line up.
- Put end of trunnion nut through hole in speed rod and attach (1) flatwasher and (1)cotter pin **(found in parts bag) (See FIG. 7A-ASSY).**

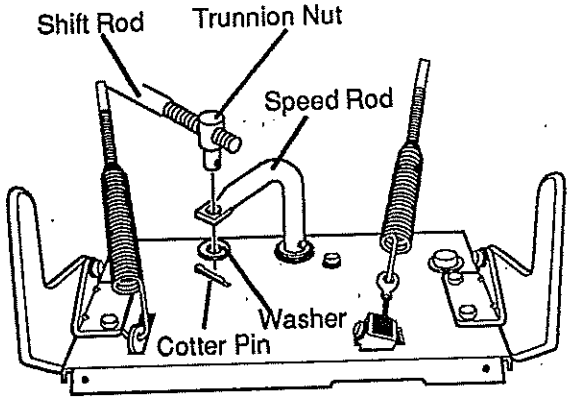


FIG. 7A-ASSY

- Move the shifter lever through all the speeds to ensure proper placement of the shifter lever.

TO ASSEMBLE SNOW CHUTE (FIG. 8-ASSY)

- Remove back carriage bolt.
- Tilt chute back into operating position.
- Replace carriage bolt from inside of chute.
- Replace flatwasher and nylon locknut on outside of flange.
- Tighten carriage bolt securely. **NOTE:** Check all carriage bolts in flange for tightness.

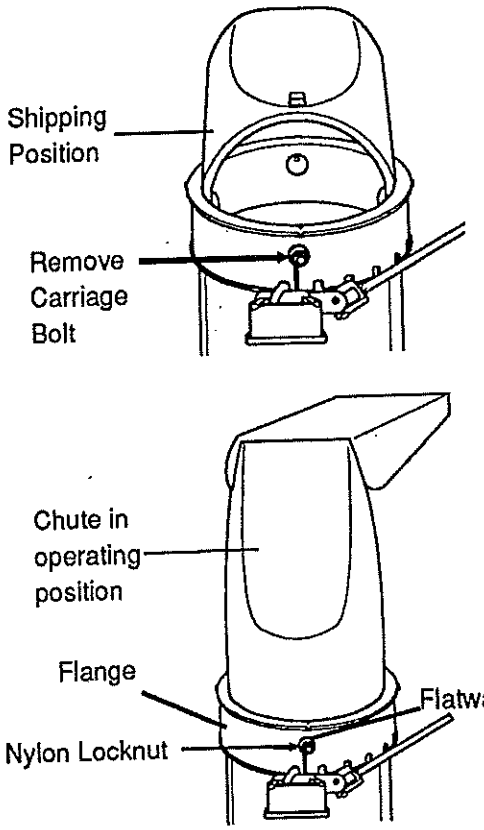


FIG. 8-ASSY

TO CHECK/ADJUST CLUTCH CONTROL CABLES

The control cables attached to the auger clutch lever and traction clutch lever may need to be adjusted before you use your snow thrower.

Refer to **"To Adjust the Clutch Control Cables"** in the "Service and Adjustment" section on checking or adjusting the control cables.

OPERATION

KNOW YOUR SNOW THROWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR SNOW THROWER. Compare the illustrations with your snow thrower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

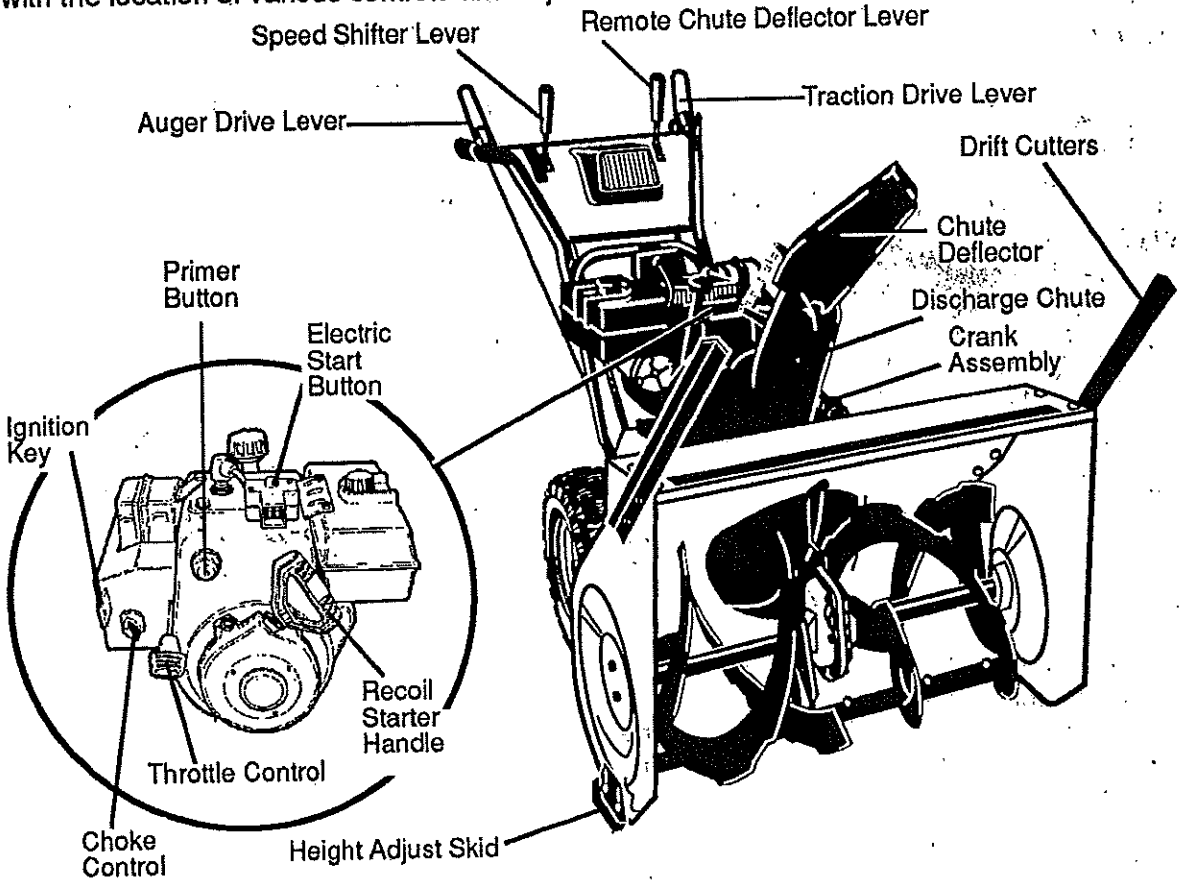


FIG. 1-OP

This snow thrower conforms to the safety standards of the American National Standards Institute.

Auger Drive Lever - Starts and stops the auger and impeller (**snow gathering and throwing**).

Traction Drive lever - Propels the snow thrower forward and in reverse.

Speed Shifter Lever - Selects the speed of the snow thrower (**6 speeds forward and 2 speeds reverse**).

Crank Assembly - Changes the direction of snow throwing through the discharge chute.

Chute Deflector- Changes the distance the snow is thrown.

Discharge Chute - Changes the height and direction the snow is thrown.

Height Adjust Skid - Adjusts the ground clearance of the auger housing.

Ignition Key - Must be inserted to start the engine.

Recoil Starter Handle - Starts the engine manually.

Choke Control - Used to start a cold engine.

Primer Button - Injects fuel directly into the carburetor manifold for fast starts in cold weather.

Throttle control - Controls the engine speed.

Electric Starter Button - (if so equipped)- Used to start the engine using the 120 V electric starter.

Remote Chute Control Lever- Push forward to discharge snow high and far. Pull remote lever back to discharge snow down.

Drift Cutters- (if so equipped) Cuts a path through snow drifts taller than unit.

⚠ **WARNING!** Read Owner's Manual before operating machine. Never direct discharge toward bystanders stop the engine before unclogging discharge chute or auger housing and before leaving the machine.

HOW TO USE YOUR SNOW THROWER

TO CONTROL SNOW DISCHARGE

- Turn the crank assembly to set the direction of the snow throwing.
- Adjust snow chute deflector to set the distance. Push remote lever forward to discharge snow high and far. Pull remote lever back to discharge snow down (**See FIG. 2-OP**).

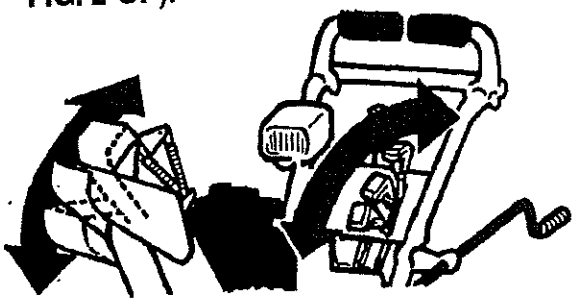


FIG. 2-OP

TO STOP YOUR SNOW THROWER

- To stop throwing snow, release the auger drive lever (**See FIG. 3-OP**).
- To stop the wheels, release the traction drive lever.
- To stop the engine, push the throttle control lever to off and pull out the ignition key (**See FIG. 1-OP**).

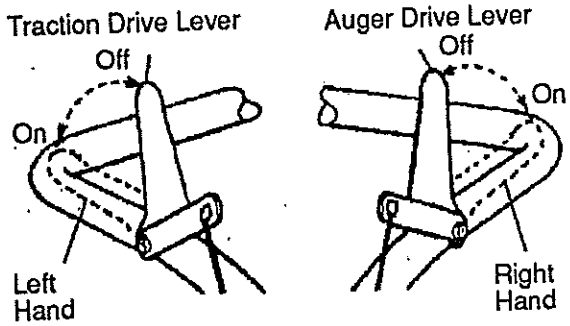


FIG. 3-OP

TO MOVE FORWARD AND BACKWARD

- To shift, release the traction clutch lever and move the speed shifter lever to the speed you desire. Ground speed is determined by snow conditions. Select the speed you desire by moving the speed shifter lever into the appropriate colored area on the control panel.

Red - Wet, Heavy, Slushy, Extra Deep

Amber - Moderate

White - Very Light

Green - Transport only

- Engage the traction clutch lever (**See FIG. 3-OP, left hand**). As the snow thrower starts to move, maintain a firm hold on the handles, and guide the snow thrower along the clearing path. Do not attempt to push the snow thrower.
- This unit is equipped with a single hand control feature. This will allow the operator to hold both engaged levers with one hand thus freeing other hand.

To activate single hand control feature:

- Push down on both levers to engaged position.
- Once engaged either hand may be removed from levers. Both levers will remain engaged as long as one is held down.
- To disengage single hand control operation release lever which is being held down and both levers will automatically disengage.
- To move the snow thrower backward, move the speed shifter lever into first or second reverse and engage the traction clutch lever (**left hand**).

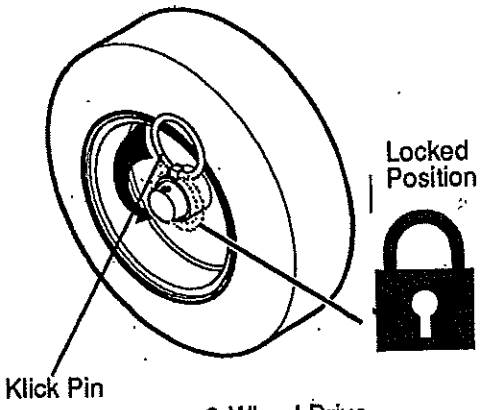
IMPORTANT: Do not move the speed shifter lever while the traction lever is down.

TO THROW SNOW

- Push down the auger drive lever (**See FIG. 3-OP, right hand**).
- Release to stop throwing snow.

TO USE WHEEL LOCKOUT PIN

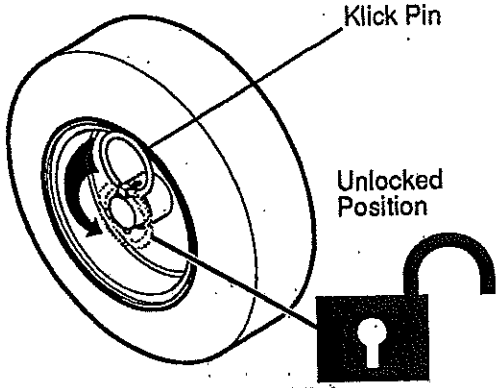
- The left hand wheel is secured to the axle with a klick pin (**See FIG. 4-OP**). This unit was shipped with this klick pin in the locked (**through wheel hole**) position.



2-Wheel Drive

FIG. 4-OP

- For ease of maneuverability in light snow conditions, disconnect the klick pin from the wheel locked position and push into the single wheel drive (**unlocked axle hole only**) position (**See FIG. 5-OP**).
- Make sure that the klick pin is in the single wheel drive position of the axle only and not through the locked position.



Single Wheel Drive

FIG. 5-OP

BEFORE STARTING THE ENGINE

- If the snow thrower must be moved without the aid of the engine, it is easier to pull the snow thrower by the handles rather than pushing.
- Before you service or start the engine, familiarize yourself with the snow thrower. Be sure you understand the function and location of all controls.

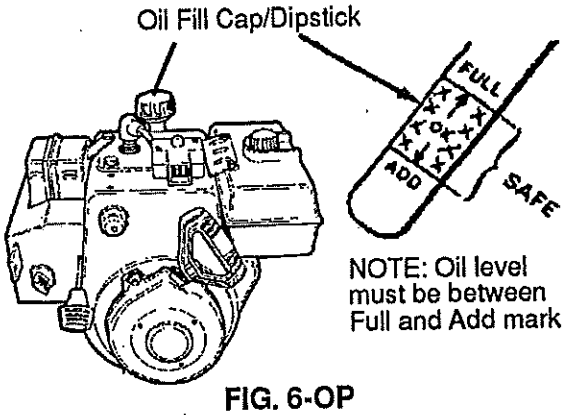
NOTE: Check tension of clutch cables before starting the engine (**See To Adjust The Control Cables paragraph in the Service & Adjustments section of this manual**).

- Be sure that all fasteners are tight.
- Make sure the height adjust skids are properly adjusted (**See To Adjust Skid Height paragraph in the Service & Adjustments section of this manual**).
- Check tire pressure (**14 to 17 pounds**). Do not exceed maximum amount of pressure.

FILL OIL:

NOTE: The engine on this snow thrower was shipped without oil. 5W30 oil is included with this unit and must be added to the engine before operating. Remove the oil fill cap/dipstick and fill the crank case to "**FULL**" line on dipstick (**See FIG. 6-OP**) with S.A.E. 5W-30 motor oil (**or equivalent**). **Do not overfill.** Tighten the fill cap/dipstick securely each time you check the oil level.

NOTE: S.A.E. 0W-30 motor oil may be used to make starting easier in areas where temperature is consistently 20° F. or lower.



NOTE: Oil level must be between Full and Add mark

FIG. 6-OP

FILL GAS:

Fill the fuel tank with clean, fresh, unleaded grade automotive gasoline. Be sure that the container you pour the gasoline from is clean and free from rust or other foreign particles. Never use gasoline that may be stale from long periods of storage in the container.

⚠ **WARNING:** Experience indicates that alcohol blended fuels (**called gasohol or those using ethanol or methanol**) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Start the engine and let it run until the fuel lines and carburetor are empty. Use the carburetor bowl drain to empty residual gasoline from the float chamber (**FIG. 1-STORAGE**). Use fresh fuel next season (**See Storage section in this manual for additional information**).

WARNING: Gasoline is flammable and caution must be used when handling or storing it.

Do not fill fuel tank while snow thrower is running, when it is hot, or when snow thrower is in an enclosed area.

Keep away from open flame or an electrical spark and Do not smoke while filling the fuel tank.

Never fill the tank completely. Fill the tank to within 1/4" - 1/2" from the top to provide space for expansion of fuel.

Always fill fuel tank outdoors and use a funnel or spout to prevent spilling.

Make sure to wipe up any spilled fuel before starting the engine.

Store gasoline in a clean, approved container and keep the cap in place on the container.

TO STOP ENGINE

- To stop engine, move the throttle control lever to STOP "**STOP**" position and remove key. Keep the key in a safe place. The engine will not start without the key.

TO START ENGINE (Electric Starter, if equipped)

Be sure that the engine has sufficient oil. The snow thrower engine is equipped with a 120 volt A.C. electric starter and recoil starter. Before starting the engine, be certain that you have read the following information:

COLD START (See FIG. 1-OP)

- Be sure the auger drive and traction drive levers are in the disengaged "**RELEASED**" position.
- Move the throttle control up to "**FAST**" position.
- Push the key into the ignition slot. Be sure it snaps into place. **Do not turn the key.** Remove the plastic bag and extra key.
- Rotate the choke knob to "**FULL**" choke position.
- Connect the "Power Cord," to the "Switch Box " on the engine.

CAUTION: This starter is equipped with a three-wire power cord and plug and is designed to operate on 120 volt AC household current. It must be properly grounded at all times to avoid the possibility of electrical shock which may be injurious to operator. Follow all instructions carefully as set forth in the "**To Start Engine**" section. Determine that your house wiring is a three-wire grounded system. Ask a licensed electrician if you are not sure. If your house wire system is not a three-wire system, do not use this electric starter under any conditions. If your system is grounded and a three-hole receptacle is not available at the point your starter will normally be used, one should be installed by a licensed electrician. When connecting 120 volt AC "Power Cord," always connect the cord to the "Switch Box" on the engine first, then plug the other end into the three-hole grounded receptacle. When disconnecting "Power Cord," always unplug the end in the three-hole grounded receptacle first.

- Plug the other end of the power cord into a three hole, grounded 120 volt A.C. receptacle.
- Press the primer button two or three times while keeping your finger over the vent hole on the primer button. Additional priming may be necessary for the first start if the temperature is below 15° F.
- Push down on the starter button until the engine starts. Do not crank for more than 10 seconds at a time. This electric starter is thermally protected. If overheated it will stop automatically and can be restarted only when it has cooled to a safe temperature (**a wait of about 5 to 10 minutes is required**).
- When the engine starts, release the starter button and slowly rotate the choke to "**OFF**" position. If the engine falters, rotate the choke to "**FULL**" and then gradually to "**OFF**".
- Disconnect the "Power Cord," from the receptacle first and then from "Switch Box" on engine.

NOTE: Allow the engine to warm up for a few minutes because the engine will not develop full power until it reaches operating temperature.

- Run the engine at or near the top speed when throwing snow.

WARM START

If restarting a warm engine after a short shutdown, leave choke at "**OFF**" and do not push the primer button.

TO STOP ENGINE

- To stop engine, move the throttle control lever to "**STOP**" position and remove key. Keep the key in a safe place. The engine will not start without the key.

TO START ENGINE (Recoil Starter)

Be sure that the engine has sufficient oil. Before starting the engine, be certain that you have read the following information:

COLD START (See FIG. 1-OP)

- Be sure the auger drive and the traction drive levers are in the disengaged "**RELEASED**" position.
- Move the throttle control up to "**FAST**" position.
- Push the key into the ignition slot. Be sure it snaps into place. Do not turn key. Remove the plastic bag and extra key.
- Rotate choke control to "**FULL**" choke position.
- Press the primer button in cold weather. Press two or three times, while keeping your finger over the vent hole on the primer button. Additional priming may be necessary for the first start if the temperature is below 15° F. Do not prime if temperature is above 50° F.
- Pull the starter handle rapidly. Do not allow the handle to snap back, but allow it to rewind slowly while keeping a firm hold on the starter handle.
- As the engine warms up and begins to operate evenly, rotate the choke knob slowly to "**OFF**" position. If the engine falters, return to "**FULL**" choke, then slowly move to "**OFF**" choke position.

NOTE: Allow the engine to warm up for a few minutes because the engine will not develop full power until it reaches operating temperature.

- Run the engine at or near the top speed when throwing snow.

WARM START

If restarting a warm engine after a short shutdown, rotate choke to "**OFF**" instead of "**FULL**" and do not push the primer button.

FROZEN STARTER

If the starter is frozen and will not turn engine:

- Pull as much rope out of the starter as possible.
- Release the starter handle and let it snap back against the starter.

If the engine still fails to start, repeat the two previous steps until the engine starts. Then continue with the directions for cold start.

To help prevent possible freeze-up of recoil starter and engine controls, proceed as follows after each snow removal job.

- With the engine running, pull the starter rope hard with a continuous full arm stroke three or four times. Pulling of starter rope will produce a loud clattering sound. This is not harmful to the engine or starter.
- With the engine not running, wipe all snow and moisture from the carburetor cover in area of control levers. Also move throttle control, choke control, and starter handle several times

CAUTION: Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas. Keep hands, feet, hair and loose clothing away from any moving parts on engine and snow thrower. The temperature of muffler and nearby areas may exceed 150° F. Avoid these areas.

WARNING: The operation of any snow thrower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating the snow thrower.

We recommend standard safety glasses or a wide vision safety mask for over your glasses.

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

- Release auger drive lever.
- Move throttle lever to stop position.
- Remove (**Do not turn**) ignition key.
- Disconnect spark plug wire.
- Do not place your hands in the auger or discharge chute. Use a pry bar.

SNOW THROWING TIPS

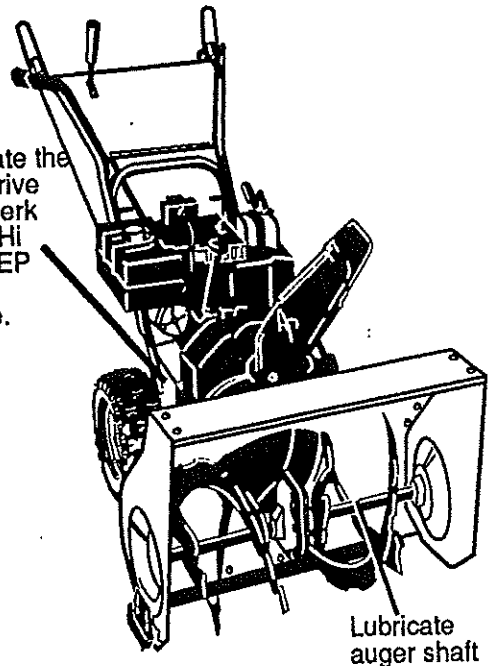
- For maximum snow thrower efficiency in removing snow, adjust ground speed, **NEVER** the throttle. Go slower in deep, freezing or wet snow. If the wheels slips, reduce forward speed. The engine is designed to deliver maximum performance at full throttle and should be run at this power setting at all times.
- Most efficient snow blowing is accomplished when the snow is removed immediately after it falls.
- For complete snow removal, slightly overlap each path previously taken.
- The snow should be discharged down wind whenever possible.
- For normal usage, set the skids so that the scraper bar is 1/8" above the skids. For extremely hard-packed snow surfaces, adjust the skids upward so that the scraper bar touches the ground.
- On gravel or crushed rock surfaces, set the skids at 1-1/4" below the scraper bar (**See To Adjust Skid Height paragraph in the Service & Adjustments section of this manual**). Rocks and gravel must not be picked up and thrown by the machine.
- After the snow blowing job has been completed, allow the engine to idle for a few minutes, which will melt snow and accumulated ice off the engine.
- Clean the snow thrower thoroughly after each use.
- Remove ice and snow accumulation and all debris from the entire snow thrower, and flush with water (**if possible**) to remove all salt or other chemicals. Wipe snow thrower dry.

MAINTENANCE

CUSTOMER RESPONSIBILITIES

SERVICE RECORDS	SCHEDULE								SERVICE DATES (Fill in dates as you complete regular service)						
	After First 2 hours	Before Each Use	Often	Every 5 Hours	Every 10 Hours	Every 25 Hours	Each Season	Before Storage							
Check Engine Oil Level		✓		✓			✓								
Change Engine Oil	✓					✓	✓								
Tighten All Screws and Nuts	✓	✓	✓												
Check Spark Plug						✓	✓								
Adjust Drive Belts	✓					✓	✓								
Lubricate All Pivot Points					✓			✓							
Check Fuel		✓													
Drain Fuel								✓							
Check Auger Clutch Cable Adjustment (See Cable Adjustment)							✓								
Check Traction Clutch Cable Adjustment (See Cable Adjustment)							✓								
Lubricate Disc Drive Plate Zerk (See Maintenance)						✓		✓							
Lubricate auger Shaft (See Shear Bolt Replacement)					✓			✓							

LUBRICATION CHART



GENERAL RECOMMENDATIONS

The warranty on this snow thrower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain snow thrower as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your snow thrower .

All adjustments in the **Service and Adjustments** section of this manual should be checked at least once each season.

AFTER EACH USE

- Check for any loose or damaged parts.
- Tighten any loose fasteners.
- Check and maintain the auger.
- After each use, remove all snow and slush off the snow thrower to prevent freezing of auger or controls.

- Check controls to make sure they are functioning properly.
- If any parts are worn or damaged, replace immediately.
- Change the oil after first two (2) hours of use.

SNOW THROWER

AS REQUIRED

The following adjustment should be performed more than once each season.

- Auger and Traction Drive Belts should be adjusted after the first 2 to 4 hours of use, again about mid-season and twice each season thereafter (**See To Adjust Belts paragraph in the Service and Adjustment section**).

LUBRICATION - EVERY 10 HOURS

- Auger Shaft - Using a hand grease gun, lubricate the auger shaft zerk fittings (**See A, FIG. 1-MAINT**) every ten (**10**) operating hours. Each time a shear bolt is replaced (**See To Replace Auger Shear Bolt in the Service and Adjustment section**), the auger shaft **MUST** be greased.

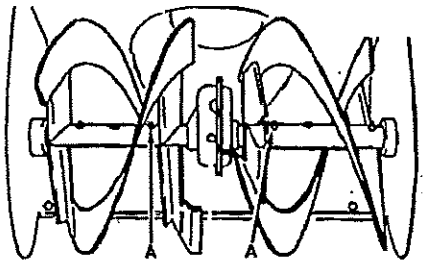


FIG. 1-MAINT

- For storage or when replacing shear bolts, remove shear bolts and lubricate auger shaft zerks. Rotate augers several times on the shaft and reinstall the shear bolts.
- See Lubrication Chart diagram for lubrication points and type of lubricant.

LUBRICATION - EVERY 25 HOURS

- Lubricate Disc Drive Plate every Twenty-five (**25**) hours and at the end of the season and/or before storage.

To Lubricate:

- Position speed selector lever in first gear.
- Turn disc drive plate clockwise by hand until grease zerk is clearly visible at front center (**See FIG. 2- MAINT**).

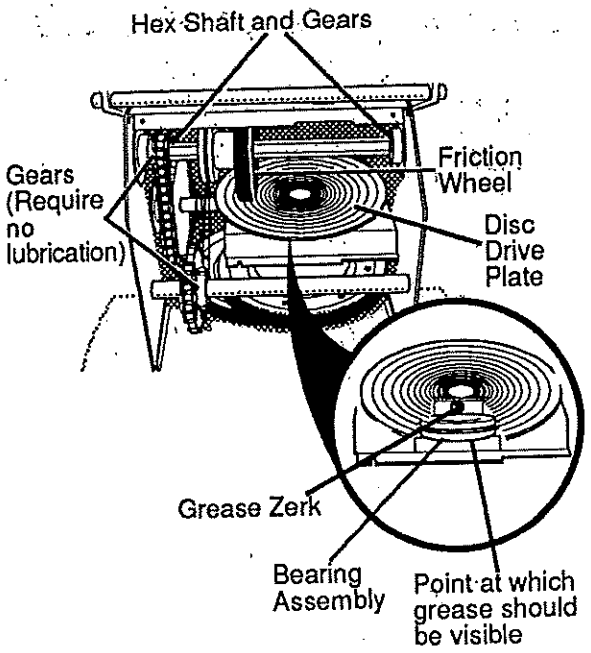


FIG. 2-MAINT

- Place a coin or (**a shim of equal thickness**) between the rubber friction wheel and disc drive plate to prevent rubber friction wheel contacting the drive disc. (**See FIG. 2A-MAINT**)

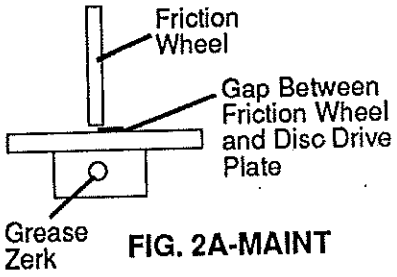


FIG. 2A-MAINT

- To grease zerk, use a hand grease gun, lubricate with a Hi Temp EP Moley grease. (**See FIG. 2- MAINT, inset**) **DO NOT** over fill or allow grease to come in contact with the disc drive plate or friction wheel or damage will result. Fill zerk only until grease becomes visible below bearing assembly located under grease zerk. (**See FIG. 2-MAINT inset**)

IMPORTANT: Remove coin and ensure that a gap exists between friction wheel and disc drive plate.

NOTE: Clean all excess grease found on friction disc hub.

CAUTION: Do not allow grease to contact friction wheel and disc drive plate.

LUBRICATION-BEFORE STORAGE

- Remove both wheels, grease (any **automotive type grease**) both axles (**See FIG. 3-MAINT**) and replace wheels. Do this at least once a year and/or prior to storage.

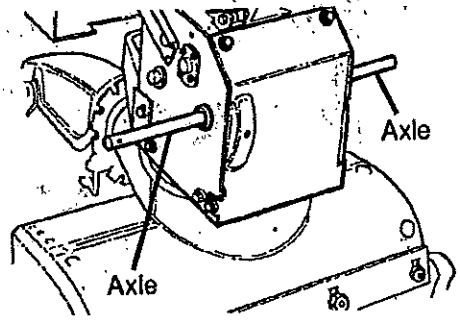


FIG. 3-MAINT

LUBRICATION-NOT REQUIRED

- Hex Shaft and Gears - Hex shaft and gears require no lubrication. All bearings and bushings are lifetime lubricated and require no maintenance.

NOTE: Any greasing or oiling of the above components can cause contamination of the friction wheel. If the disc drive plate or friction wheel come in contact with grease or oil, damage to the friction wheel will result.

Should grease or oil come in contact with the disc drive plate or friction wheel, be sure to clean the plate and wheel thoroughly.

NOTE: For storage, the hex shaft and gears should be wiped with 5W-30 motor oil to prevent rusting (**See FIG. 2-MAINT**).

- Auger Gear Box - The auger gear box is lubricated at the factory and should not require additional lubrication. If for some reason the lubricant should leak out, have auger gear case checked by a competent repairman.

ENGINE

LUBRICATION

Check the crankcase oil level (**See FIG. 4-MAINT**) before starting the engine and after each five (**5**) hours of continuous use. Add S.A.E. 5W-30 motor oil as needed. Tighten fill cap/dipstick securely each time you check the oil level.

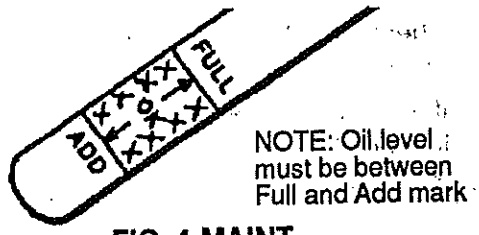


FIG. 4-MAINT

Change the oil after first two hours of operation and every twenty-five (**25**) hours thereafter or at least once a year if the snow thrower is not used for twenty-five (**25**) hours (**See FIG. 5-MAINT**).

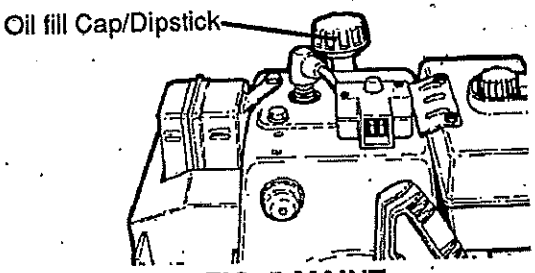


FIG. 5-MAINT

- Position the snow thrower so that the oil drain plug is at the lowest point on the engine. Remove the oil drain plug and the oil fill cap/dipstick. Drain the oil into a suitable container. Oil will drain more freely when warm.
- Replace the oil drain plug and tighten securely. Refill the crankcase with S.A.E. 5W-30 motor oil.

SPARK PLUG

- Make sure that the spark plug is tightened securely into the engine and the spark plug wire is attached to the spark plug.
- If a torque wrench is available, torque plug to 18 to 23 foot pounds.
- Clean the area around the spark plug base before removal to prevent dirt from entering the engine.
- Clean the spark plug and reset the gap periodically (**See FIG. 6-MAINT**).

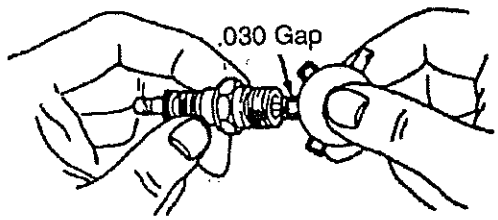


FIG. 6-MAINT

SERVICE AND ADJUSTMENTS

CAUTION: Always disconnect the spark plug wire and tie back away from the plug before making any adjustments or repairs.

TO ADJUST SKID HEIGHT

This snow thrower is equipped with two height adjustment skids, located on the outside of the auger housing (**See FIG. 1-SERV & ADJ**). These skids elevate the front of the snow thrower.

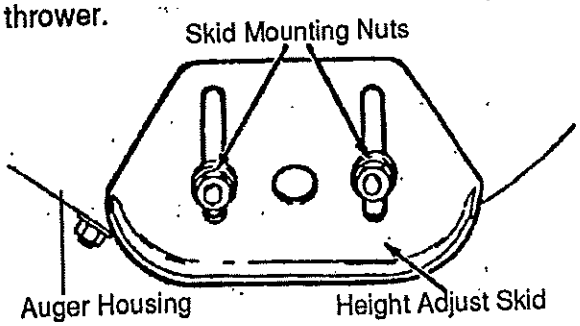


FIG. 1-SERV & ADJ

For normal hard surfaces, such as a paved driveway or walk, adjust the skids as follows:

- Check both tires for equal inflation. Correct tire pressure is 14 to 17 pounds. Do not exceed sidewall maximum pressure on tire.
- Place the extra shear bolts supplied (**found in parts bag**) under each end of the scraper bar near but not under the skid.
- Loosen the skid mounting nuts (**See FIG. 1-SERV & ADJ**), and adjust the skids up to bring the front of the snow thrower down. Re-tighten the mounting nuts.
- Set the skid on the other side at the same height.

NOTE: For rocky or uneven surfaces, raise the front of the snow thrower by moving the skids down. This will help prevent rocks and other debris from being picked up and thrown by the auger.

TO ADJUST SCRAPER BAR

After considerable use, the metal scraper bar will have a definite wear pattern. The scraper bar in conjunction with the skids should always be adjusted to allow 1/8" between the scraper bar and the sidewalk or area to be cleaned.

- Position the snow thrower on a level surface.
- Make sure both tires are equally inflated. Proper tire pressure is 14 to 17 PSI. See side of tire for maximum inflation. Do not exceed sidewall maximum pressure on tire.
- Loosen the carriage bolts and nuts securing the scraper bar to the auger housing.
- Adjust the scraper bar to the proper position.
- Tighten the carriage bolts and nuts, making sure that the scraper bar is parallel with the working surface.
- For extended operation, the scraper bar may be reversed. If the scraper bar must be replaced due to wear, remove the carriage bolts and nuts and install a new scraper bar.

CAUTION: Be certain to maintain proper ground clearance for your particular area to be cleared. Objects such as gravel, rocks or other debris, if struck by the impeller, may be thrown with sufficient force to cause personal injury, property damage or damage to the snow thrower.

TO ADJUST SINGLE HANDLE CLUTCH CONTROL CABLES (FIG. 2A,2B&2C-ADJ)

Periodic adjustment of the cables may be required due to normal stretch and wear on the belts and cables.

To check for correct adjustment, move control lever to full engage position (**See FIG. 2A-SERV&ADJ**).

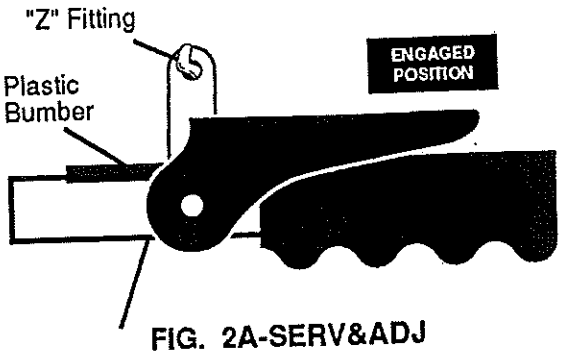


FIG. 2A-SERV&ADJ

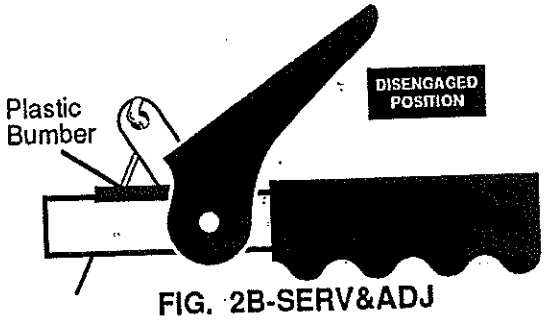


FIG. 2B-SERV&ADJ

The cam latch should contact stop (**See FIG. 2C-SERV&ADJ**).

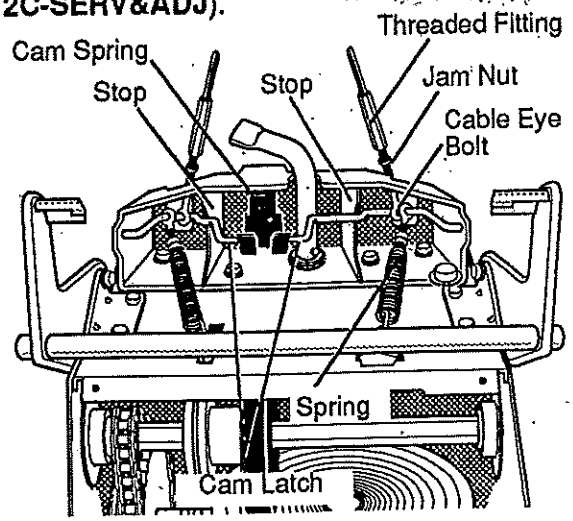


FIG. 2C-SERV&ADJ

Move control lever to full engaged position contacting the plastic bumper. There should be no slack in the spring/eye bolt assembly.

If adjustment is necessary: (See FIG. 2C-SERV&ADJ)

- Disconnect the spark plug wire.
- Drain the gasoline from the gas tank.
- Stand the snow thrower on the auger housing end.
- Loosen jam nut on cable eye bolt (**See FIG. 2C-SERV&ADJ**).
- Move and hold control lever in engaged position. (**See FIG. 2A-SERV&ADJ**).
- Adjust threaded fitting until cam latch contacts stop (**See FIG. 2C-SERV&ADJ**) and retighten jam nut against threaded fitting.
- Release control lever. **NOTE:** Lever must contact plastic bumper (**See FIG. 2B-SERV&ADJ**).

TO ADJUST BELTS

Belts stretch during normal use. If you need to adjust the belts due to wear or stretch, proceed as follows:

AUGER DRIVE BELT

If your snow thrower will not discharge snow, check the control cable adjustment. If it is correct, then check the condition of the auger drive belt. It may be loose or damaged. If it is damaged, replace it (**See To Replace Belts paragraph in this section**). If the auger drive belt is loose, adjust as follows:

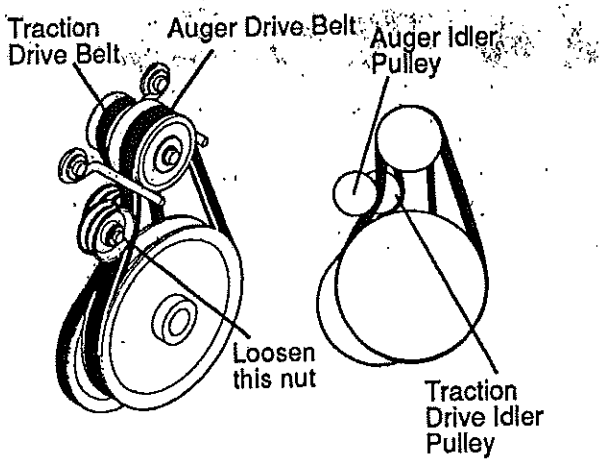


FIG. 3-SERV & ADJ

- Disconnect the spark plug wire.
- Remove the belt cover (**See FIG. 5-SERV & ADJ**).
- Loosen the nut on the idler pulley (**FIG. 3-SERV & ADJ**) and move the pulley toward

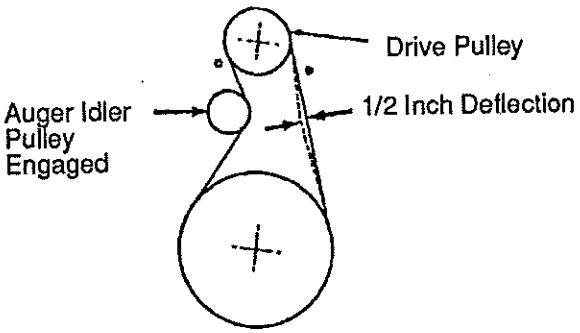


FIG. 4-SERV & ADJ

the belt about 1/8".

- Tighten the nut.
- Press the auger drive lever. Check the tension on the belt (**opposite auger idler pulley**). The belt should deflect about 1/2" with moderate pressure (**See FIG. 4-SERV & ADJ**).

NOTE: You may have to move the auger idler pulley more than once to obtain the correct tension.

- Replace the belt cover.
- Check the clutch control cable adjustment.
- Reconnect the spark plug wire.

TRACTION DRIVE BELT

The traction drive belt has constant spring pressure and does not require adjustment.

- Replace the traction drive belt if it is slipping (**See To Replace Belts paragraph in this section**).

TO REPLACE BELTS

The drive belts on this snow thrower are of special construction and should be replaced with original equipment belts available from your nearest authorized service representative. A distributor's list is in parts manual.

You will need the assistance of a second person while replacing the belts.

Drain the gasoline from the fuel tank by removing the fuel line. Drain the gas and reinstall the fuel line.

⚠ **CAUTION!** Drain the gasoline outdoors, away from fire or flame.

AUGER DRIVE BELT

If your snow thrower will not discharge snow, and the auger drive belt is damaged, replace it as follows:

- Disconnect the spark plug wire.
- Remove the belt cover (**See FIG. 5-SERV & ADJ**).

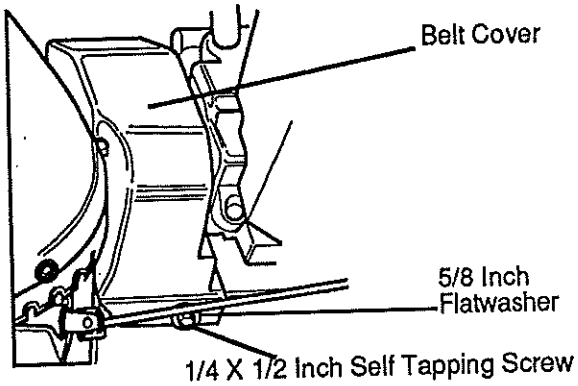


FIG. 5-SERV & ADJ

- Loosen the belt guides (**See FIG. 6-SERV & ADJ**) and pull away from the auger drive pulley.
- Remove belt from auger drive pulley.
- Remove top two bolts securing auger housing to motor mount frame. Loosen bottom two bolts (**See FIG. 7-SERV & ADJ**).

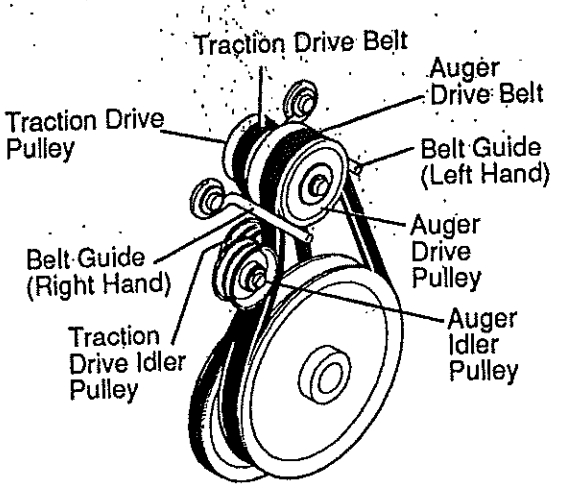
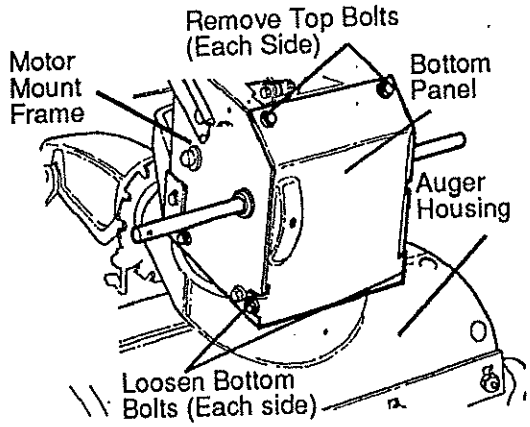


FIG. 6-SERV & ADJ

- Auger housing and motor mount frame will separate, hinged by bottom two bolts.
- Remove old belt from the auger drive pulley.



(Bottom View)

FIG. 7-SERV & ADJ

- Install new replacement belt of the same type onto the auger pulley.
- Position belt onto auger drive pulley.
- Adjust the belt guides (**See To Adjust The Belt Guides paragraph in this section**).
- Replace top two bolts. Re-tighten bottom two bolts.
- Reinstall the belt cover.
- Check the clutch control cable adjustment (**See To Adjust The Clutch Control Cables in this section**).
- Reconnect the spark plug wire.

TRACTION DRIVE BELT (See FIG. 6-SERV & ADJ

If your snow thrower will not move forward, check the traction drive belt for wear (**Check other causes also in the Trouble Shooting Points section**). If the traction drive belt needs to be replaced, proceed as follows:

- Disconnect the spark plug wire.
- Remove the belt cover.
- Loosen belt guides and pull guides away from the auger drive pulley.
- Remove auger drive belt from auger drive pulley.
- Pull the traction drive belt idler pulley away from the traction drive belt.
- Remove traction drive belt.
- Position new replacement belt of the same type onto traction pulley.
- Pull idler pulley away from belt, allowing belt to be positioned onto engine pulley.
- Release idler pulley. Ensure idler pulley is properly engaged with belt.
- Reinstall auger drive belt.
- Adjust belt guides and tighten the mounting screws (**See To Adjust The Belt Guides paragraph in this section**).
- Reinstall the belt cover.
- Reconnect the spark plug wire.

TO ADJUST THE BELT GUIDES

There are two belt guides on your snow thrower, a left and right. After you replace the auger drive belt, you need to adjust one or both of the belt guides. Proceed as follows for each belt:

- Disconnect the spark plug wire.
- Remove the belt cover.
- Engage the auger drive clutch lever.
- Measure the distance between the belt guides and the belt (**See FIG. 8-SERV & ADJ**). The distance should be 3/32" for each guide.
- If adjustment is necessary, loosen the belt guide mounting bolts. Move the belt guides to the correct position. Tighten the mounting bolts.
- Reinstall the belt cover.
- Reconnect the spark plug wire.

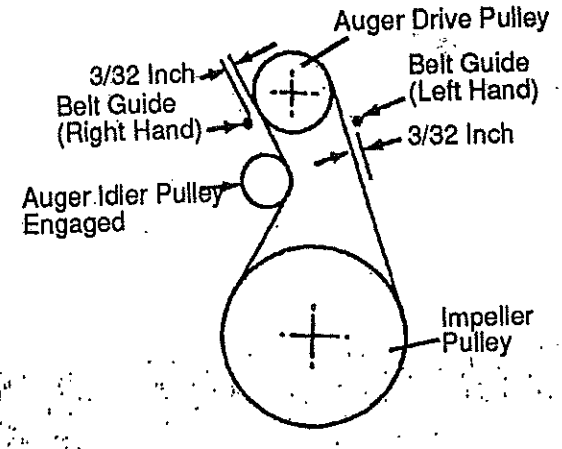


FIG. 8-SERV & ADJ

TO ADJUST THE FRICTION WHEEL

If the snow thrower will not move forward, you need to check the traction drive cable or the friction wheel. If the friction wheel is worn or damaged, it will need to be replaced (**See To Replace Friction Wheel paragraph in this section**). If the friction wheel is not worn or damaged, check the adjustment, as follows:

- Disconnect the spark plug wire.
- Drain the gasoline from the gas tank.
- Stand the snow thrower on the auger housing end.
- Remove the bottom panel (**See FIG. 7-SERV&ADJ**).
- Position the shifter lever in first (1) gear.
- Note the position of the friction wheel on the disc drive plate. The right outer side of the disc drive plate should be 3" from the center of the friction wheel (**See FIG. 9-SERV & ADJ**).

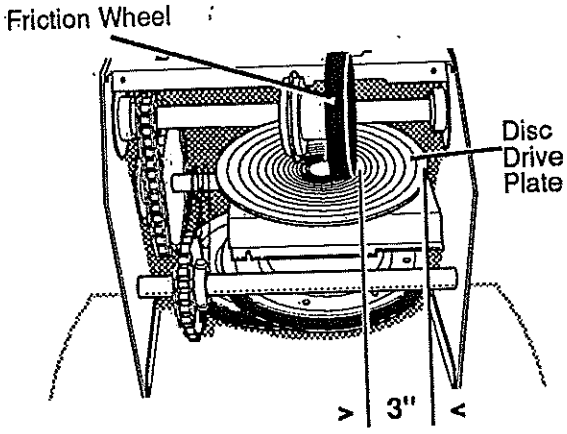


FIG. 9-SERV & ADJ

If adjustment is necessary:

- Remove washer and cotter pin connecting trunion nut to speed rod (**See FIG. 10-SERV&ADJ**).

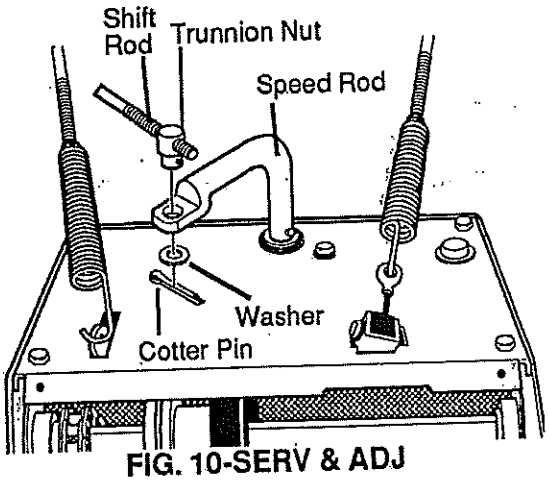


FIG. 10-SERV & ADJ

- Twist trunion nut up or down on shift rod to obtain the correct friction wheel position.
- Put end of trunion nut through hole in speed rod and reattach washer and cotter pin (**See FIG. 10-SERV&ADJ**).
- Reinstall the bottom panel.
- Lower the snow thrower.

TO REPLACE FRICTION WHEEL

If the snow thrower will not move forward, and the friction wheel is worn or damaged, you need to replace it as follows: (**First allow the engine to cool**).

CAUTION! Drain gasoline outdoors away from fire or flame.

- Drain the gasoline from the fuel tank by removing the fuel line. Drain the fuel and reinstall the fuel line.
- Disconnect the spark plug wire.
- Stand the snow thrower up on the auger housing end (**See FIG. 11-SERV & ADJ**).
- Remove the bottom panel (**See FIG. 7-SERV & ADJ**).
- Remove shift rod from speed rod (**See FIG. 10-SERV & ADJ**).

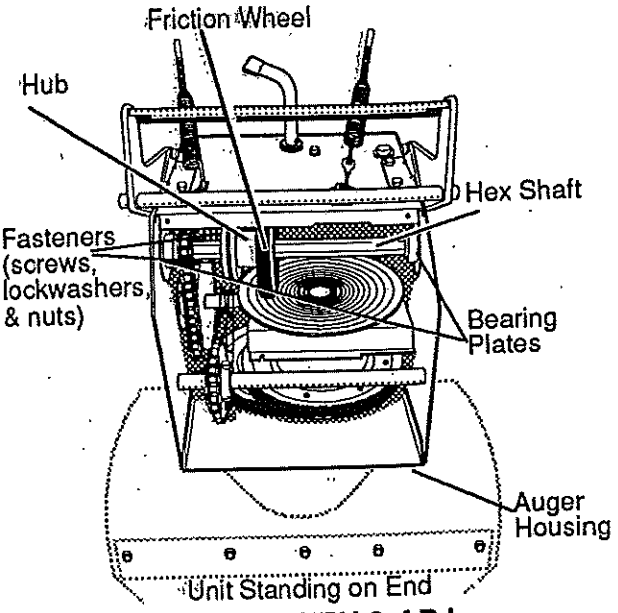


FIG. 11-SERV & ADJ

- Remove the three (3) fasteners (**screws, lockwashers, and nuts**) securing the friction wheel to hub (**See FIG. 12-SERV & ADJ**) and set fasteners aside.

NOTE: Note position of special washers and retaining ring on the hex shaft and sprocket assembly.

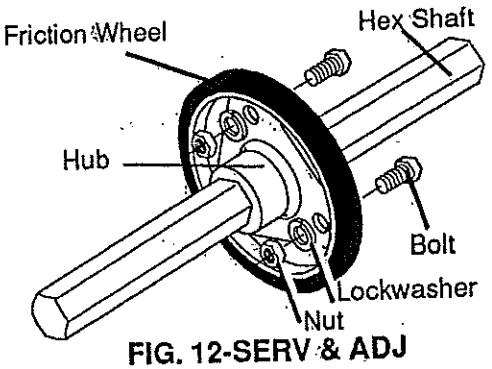


FIG. 12-SERV & ADJ

- Remove the four bolts securing the bearing plates (**both sides**).
- Remove right side bearing plate. Leave hex shaft in original position, and carefully raise hex shaft just until the friction wheel clears the frame enough to be removed.
- Remove friction wheel from hub. Slip friction wheel off hex shaft towards right side (**See FIG. 12-SERV & ADJ**).
- Position new friction wheel onto hub.
- Install bearing plates to original position. Ensure hex shaft is engaged with both bearing plates and special washers are intact.
- Secure bearing plates using bolts removed earlier.

- Secure friction wheel to hub using fasteners removed earlier. Ensure hex shaft turns freely.
- Reinstall shift rod to speed rod.
- Should friction wheel require adjustment, **(See To Adjust the Friction Wheel).**

NOTE: Ensure friction wheel and friction disc are free from grease or oil.

- Replace bottom panel.
- Lower the snow thrower.

TO REPLACE AUGER SHEAR BOLT

The augers are secured to the auger shaft with special bolts **(See FIG. 13-SERV & ADJ)** that are designed to break **(to protect the machine)** if an object becomes lodged in the auger housing. Use of a harder bolt will destroy the protection provided by the shear bolt.

IMPORTANT: To insure safety and levels, only original equipment shear bolts should be used. When replacing shear bolts, be sure to replace shear bolt spacers.

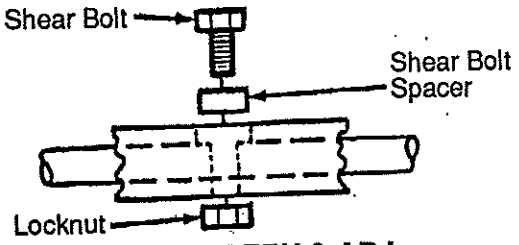


FIG. 13-SERV & ADJ

To replace a broken shear bolt, proceed as follows:

- Move the throttle to STOP **"STOP"** and turn off all controls.
- Disconnect the spark plug wire. Be sure all moving parts have stopped.
- Lubricate the auger shaft zerk fitting **(See the Maintenance section in this manual).**
- Align the hole in the auger with the hole in the auger shaft. Install the new shear bolt, shear bolt spacer, and locknut provided in parts bag.
- Reconnect the spark plug wire.

TO ADJUST CARBURETOR

The carburetor has been pre-set at the factory and readjustment should not be necessary. However, if the carburetor does need to be adjusted contact your nearest authorized service center, which has the proper equipment and experience to make any necessary adjustments. See the distributors list in your Parts manual.

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Over-speeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center, which has the proper equipment and experience to make any necessary adjustments. See the distributors list in your Parts manual.

TO ADJUST OR REPLACE THE SPARK PLUG

If you have difficulty starting your snow thrower, you may need to adjust or replace the spark plug. Follow the instructions below.

Replace the spark plug if the electrodes are pitted or burned or if the porcelain is cracked.

TO ADJUST:

- Clean the spark plug by carefully scraping the electrodes **(do not sand blast or use a wire brush).**
- Be sure the spark plug is clean and free of foreign material. Check the electrodes gap **(See FIG. 14-SERV & ADJ)** with a wire feeler gauge and reset the gap to .030 inch if necessary.

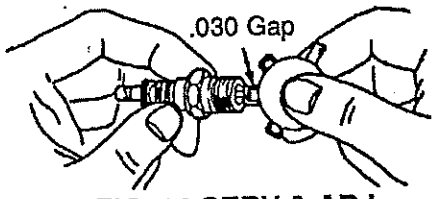


FIG. 14-SERV & ADJ

TO REPLACE:

- Remove the spark plug wire.
- Clean the area around the plug base to prevent dirt from entering the engine when the plug is removed.
- Remove the spark plug. If it is cracked, fouled or dirty, it must be replaced.
- Set the gap between the electrodes of the new spark plug at .030 inch. Next, install the spark plug in the cylinder head. Tighten the plug to 18 to 23 foot pounds. If you do not use a torque wrench, tighten the plug firmly **(See FIG. 14-SERV & ADJ).**

STORAGE

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

NOTE: Immediately prepare your snow thrower for storage at the end of the season or if the unit will not be used for 30 days or more.

SNOW THROWER

Thoroughly clean the snow thrower.

- Lubricate all lubrication points (**See the Maintenance section**).
- Be sure that all nuts, bolts and screws are securely fastened. Inspect all visible moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.
- Cover the bare metal parts of the blower housing auger and the impeller with rust preventative, such as sprayable lubricant.

NOTE: A yearly checkup or tuneup by a authorized Service Center is a good way to insure that your snow thrower will provide maximum performance for the next season.

ENGINE

IMPORTANT: Emptying the fuel system before storage is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol blended fuels (**called gasohol or using ethanol or methanol**) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

- Drain the gasoline from the fuel tank by removing the fuel line. Drain the fuel and reinstall the fuel line.
- Start the engine and run at SLOW (**idle**) speed until the engine stops from lack of fuel.
- Drain the carburetor by pressing upward on the bowl drain (**See FIG. 1-STORAGE**), located below the carburetor cover.

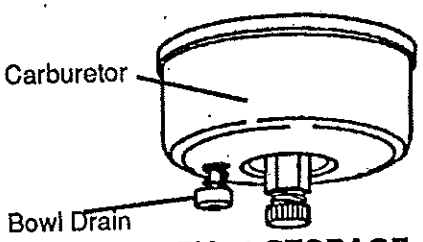


FIG. 1-STORAGE

NOTE: Fuel stabilizer (**such as STA-BIL**) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in the fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run the engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

- Remove the spark plug and squirt one (1) ounce of engine oil into the cylinder. **NOTE:** Cover the spark plug hole with a rag to absorb oil spray. Pull the recoil starter rope slowly, allowing the piston to coat the internal engine parts. Install an old spark plug. This prevents fouling a new plug with the preservative used to lubricate the internal parts of the engine. Close the choke and plug the muffler opening.

OTHER

- If possible, store your snow thrower indoors and cover it to give protection from dust and dirt.
- If the machine must be stored outdoors, block up the snow thrower to be sure the entire machine is off the ground.
- Cover the snow thrower with a suitable protective cover that does not retain moisture. Do not use plastic.

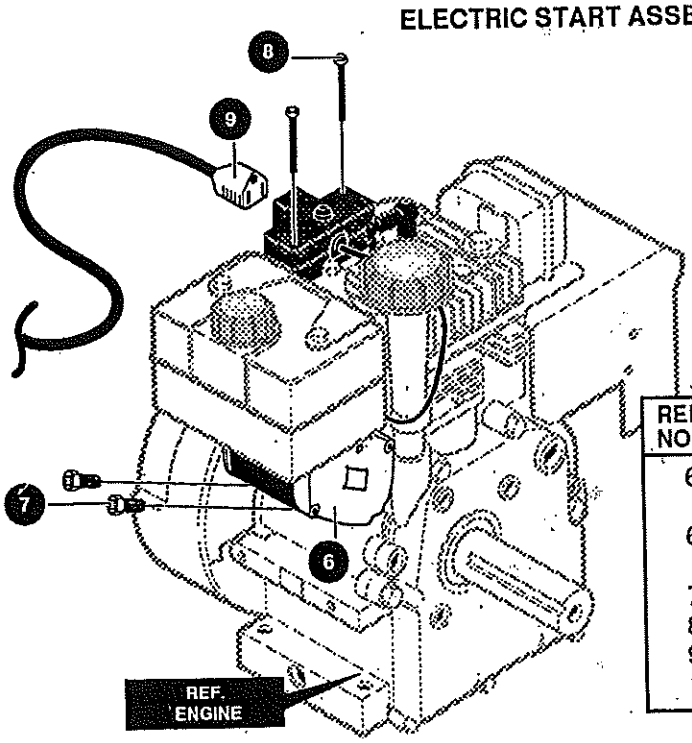
IMPORTANT: Never cover snow thrower while engine and exhaust areas are still warm.

⚠ **CAUTION:** Drain fuel into approved container outdoors, away from open flame.

TROUBLE SHOOTING POINTS

TROUBLE	CAUSE	CORRECTION
Difficult starting	Defective spark plug.	Replace defective plug.
	Water or dirt in fuel system.	Use carburetor bowl drain to flush and refill with fresh fuel.
Engine runs erratic	Blocked fuel line or empty gas tank or stale gasoline.	Clean fuel line; check fuel supply; add fresh gasoline.
Engine stalls	Unit running on CHOKE.	Set choke lever to RUN position.
Engine runs erratic; Loss of power	Water or dirt in fuel system.	Use carburetor bowl drain to flush and refill with fresh fuel.
	Carburetor out of adjustment.	Adjust carburetor.
Excessive vibration	Loose parts; damaged impeller.	Stop engine immediately and disconnect spark plug wire. Tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to propel itself	Incorrect adjustment of traction drive cable.	Adjust traction drive cable.
	Worn or damaged friction wheel.	Replace friction wheel.
	Auger drive belt loose or damaged.	Adjust auger drive belt; replace if damaged.
Unit fails to discharge snow	Auger control cable not adjusted correctly.	Adjust auger control cable.
	Shear bolt broken.	Replace shear bolt.
	Discharge chute clogged.	Stop engine immediately and disconnect spark plug wire. Clean discharge chute and inside of auger housing.
	Foreign object lodged in auger.	Stop engine immediately and disconnect spark plug wire. Remove object from auger.

ELECTRIC START ASSEMBLY



REF NO.	PART NO.	PART NAME
6	6218	MOTOR, STARTER FOR 9HP-G2794010
6	337934	MOTOR, STARTER FOR 7HP-G2474010
7	6216	SCREW, 1/4-20X .50
8	6217	SCREW, #6-32X2.50
9	6219	CORD, STARTER
10	760023	OWNER'S MANUAL

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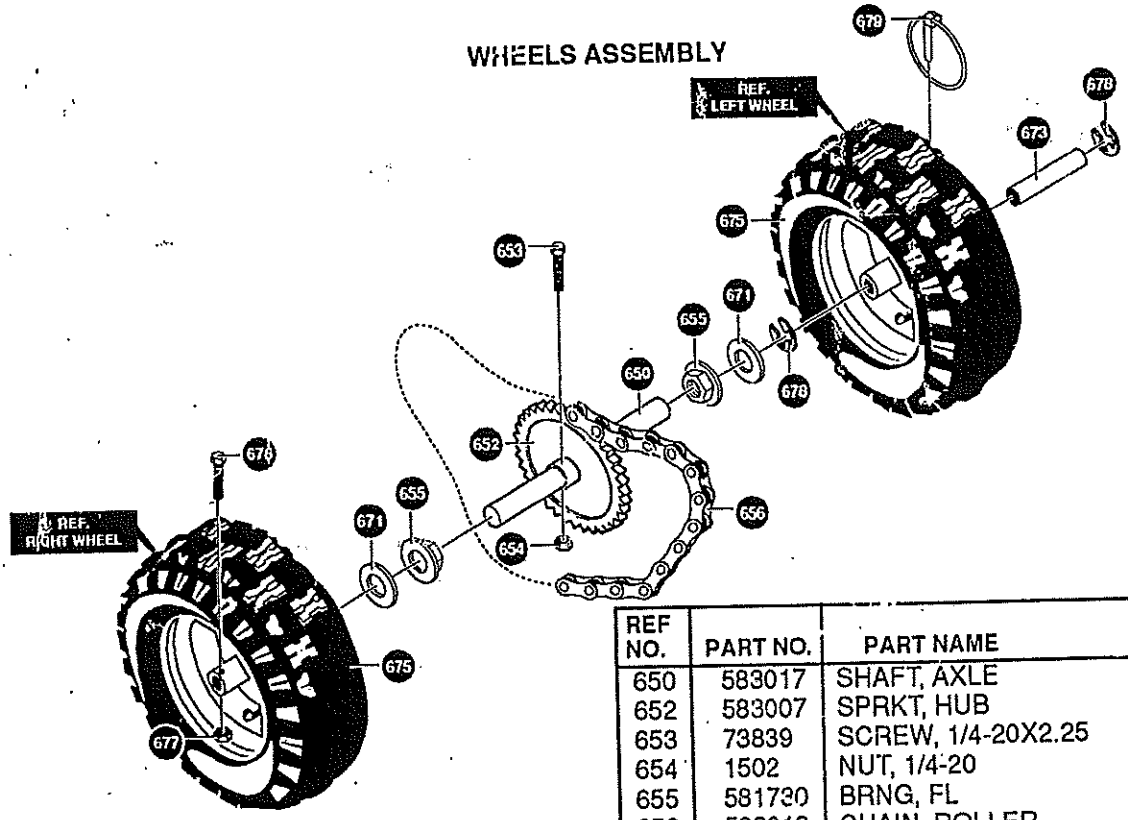
WHEELS ASSEMBLY



REF NO.	PART NO.	PART NAME
650	583017	SHAFT, AXLE
652	583007	SPRKT, HUB
653	73839	SCREW, 1/4-20X2.25
654	1502	NUT, 1/4-20
655	581730	BRNG, FL
656	583013	CHAIN, ROLLER
671	73840	FLATWASHER .765X1.12X.06
673	585591	BUSHING, WHEEL
675	580362	TIRE & RIM (G2474010)
675	580362	TIRE & RIM (G2794010)
676	577015	SCREW, 1/4-20X1.75 HH
677	1502	NUT, 1/4-20
678	239	RING, RET
679	73842	PIN, KLIK .25 X 1.38 DIA

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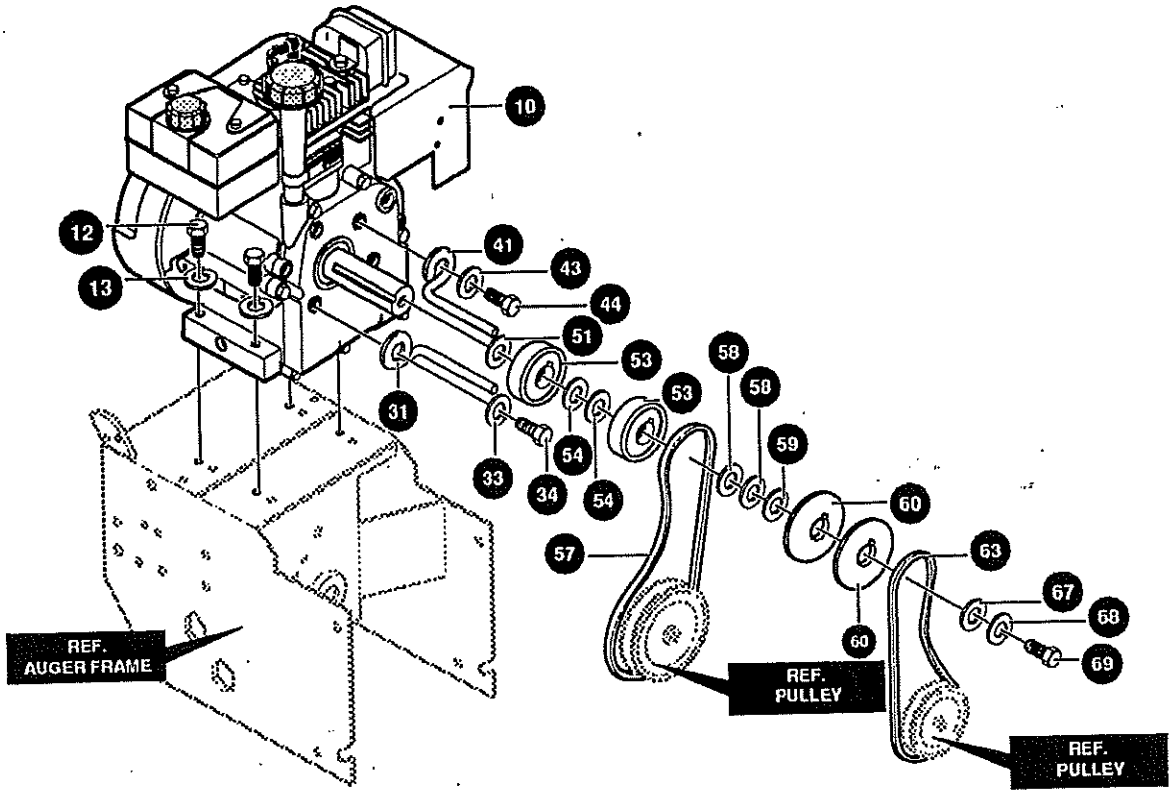
Note: Always use original equipment parts. Use of service/replacement parts other than original parts may void your warranty.

All unnumbered items are interchangeable with opposite side

ENGINE ASSEMBLY FOR 9HP-G2794-010



REF NO.	PART NO.	PART NAME
10	-	ENGINE, 9 HP (See Engine Manual)
12	710024	SCREW, 5/16-18
13	120638	WASHER, .328X.60X.09
31	3949	GUIDE, ROD BELT RH
33	120638	WASHER, .328X.60X.09
34	578733	SCREW, 5/16-24X .625
41	3949	GUIDE, ROD BELT RH
43	120638	WASHER, .328X.60X.09
44	578733	SCREW, 5/16-24X .625
51	579855	WASHER, CRANKSHAFT
53	579854	PULLEY, HALF

REF NO.	PART NO.	PART NAME
54	579861	FLATWASHER .752X.91X.02
57	579932	BELT, V 3L 33.13LG
58	73840	FLATWASGER .765X1.12X.06
59	586251	SPACER, SLEEVE
60	586253	PULLEY, ENGINE
63	585416	BELT, V 4L 38.1
67	313826	WASHER, FLAT
68	120382	WASHER, .393X.68X.10
69	39573	SCREW, 3/8-24X1.00

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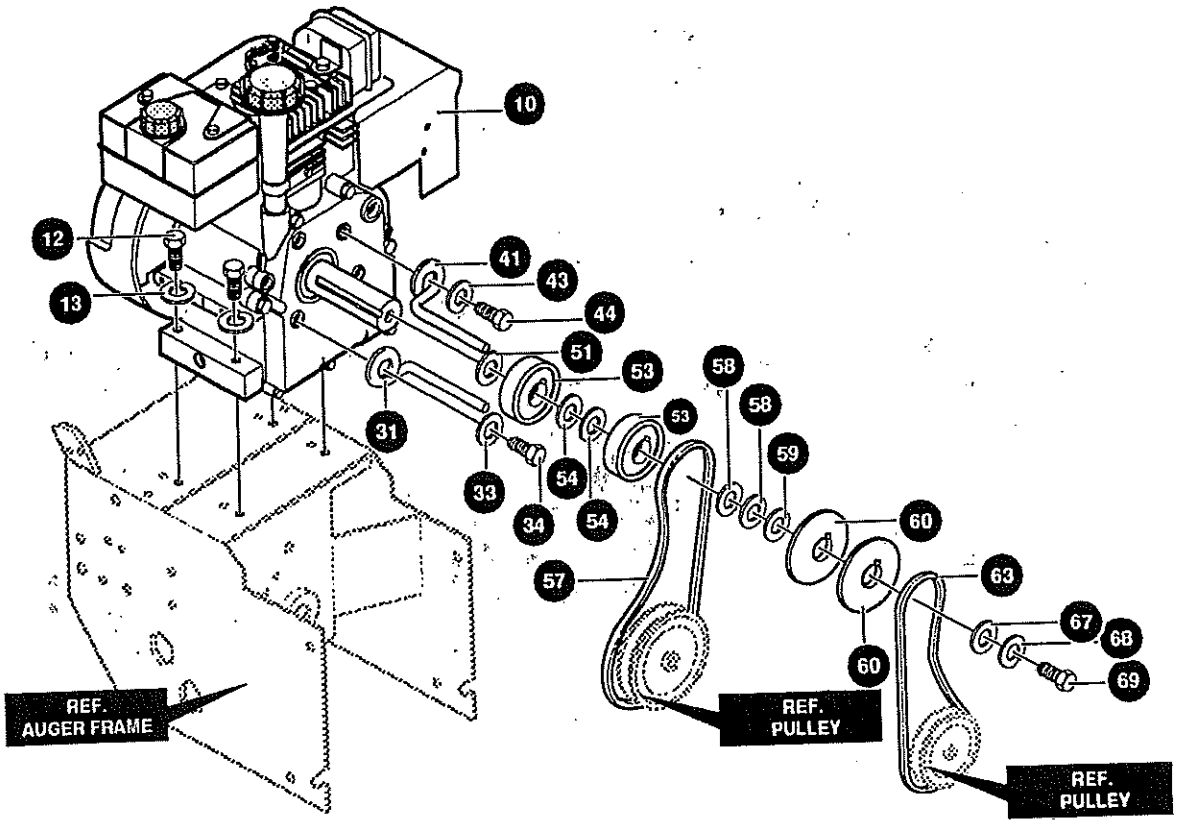
ENGINE ASSEMBLY FOR 7HP-G2474-010



REF NO.	PART NO.	PART NAME
10	-	ENGINE, 7 HP (See Engine Manual)
12	180077	SCREW, 5/16-18X .75
13	120638	WASHER, .328X.60X.09
31	3949	GUIDE, ROD BELT RH
33	120638	WASHER, .328X.60X.09
34	578733	SCREW, 5/16-24X .625HHC
41	3949	GUIDE, ROD BELT RH
43	120638	WASHER, .328X.60X.09
44	578733	SCREW, 5/16-24X .625HHC
51	579855	WASHER, CRANKSHAFT

REF NO.	PART NO.	PART NAME
53	579854	PULLEY, HALF
54	579861	FLATWASHER .752X.91X.02
57	579932	BELT, V 3L 33.13LG
58	73840	FLATWASGER .765X1.12X.06
59	586251	SPACER, SLEEVE
60	586253	PULLEY, ENGINE
63	585416	BELT, V 4L 38.1
67	313826	WASHER, FLAT
68	120382	WASHER, .393X.68X.10
69	39573	SCREW, 3/8-24X1.00

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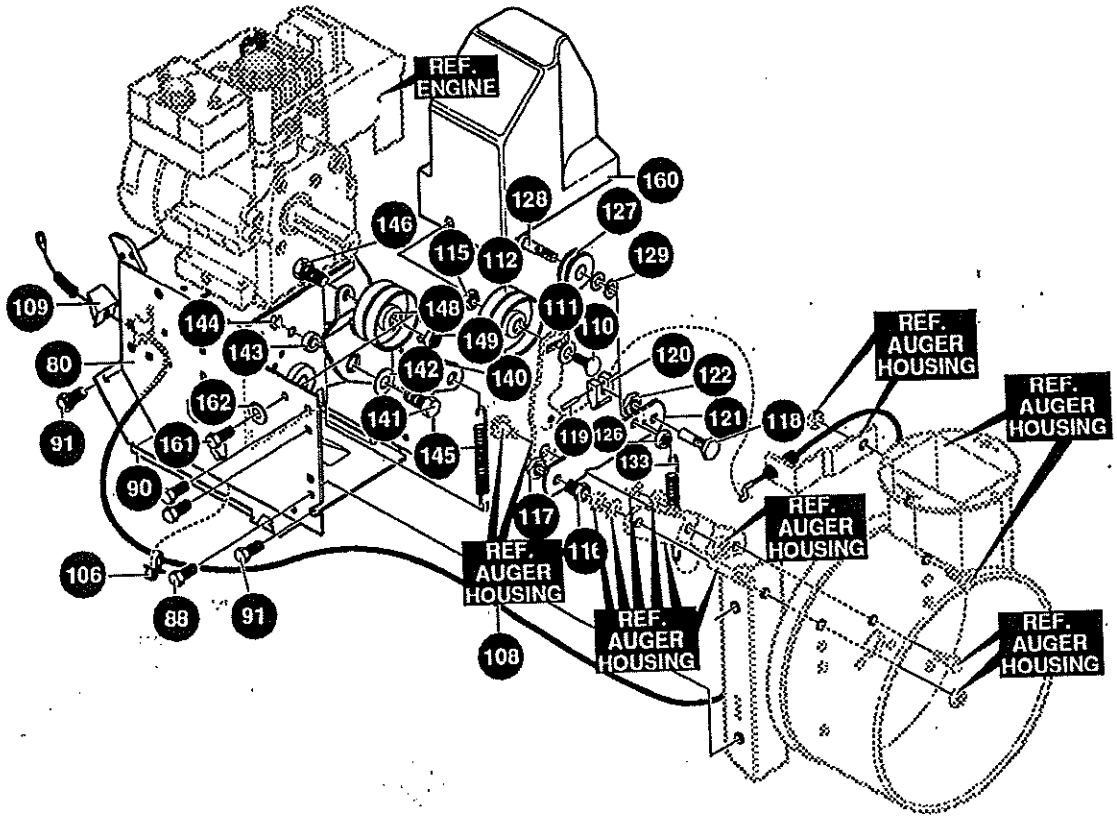
FRAME COMPONENTS ASSEMBLY



REF NO.	PART NO.	PART NAME
80	340386-898	FRAME, ASSY G2794010
	340578-898	FRAME ASSY G2474010
88	35497	SCREW, 5/16-18X .50
90	583031-830	COVER, BOTTOM
91	310169	SCREW, 1/4-20X .63
106	340682	CLIP, CABLE TINN
108	341024	CABLE, AUGER
109	340869	SHIELD, CABLE GUARD
110	585781	SCREW, 3/8-16X1.25
111	996418	WASHER, FLAT .506X .75X .024
112	313843	PULLEY, IDLER
115	41529	NUT, 3/8-16
116	585470	BOLT, BRAKE ARM
117	585608	NUT, 9/16-18
118	585446	BOLT-BRAKE ARM
119	73801	PIN, SPRING
120	581540	PAD, AUGER BRAKE
121	760072	BRACKET
122	585609	NUT, 1/2-20
126	1502	NUT, 1/4-20

REF NO.	PART NO.	PART NAME
127	48306	PULLEY
128	58336	BOLT, .375X .375 1/4-20
129	120385	WASHER, FLAT .250X .56X .049
133	339017	SPRING, TENSION
140	579872	LEVER, IDLER ARM TRACTION
141	180077	SCREW, 5/16-18X .75
142	73795	FLATWASHER, .328X1.25X.075
143	579865	BUSHING, IDLER LEVER
144	71038	NUT, 5/16-18 HEXNYL
145	313854	IDLER SPRING
146	180124	SCREW, 3/8-16X1.25
148	313843	PULLEY, IDLER
149	41529	NUT, 3/8-16
160	580772	COVER, BELT
161	310169	SCREW, 1/4-20X .63
162	120392	FLATWASHER, .281X .63X.065

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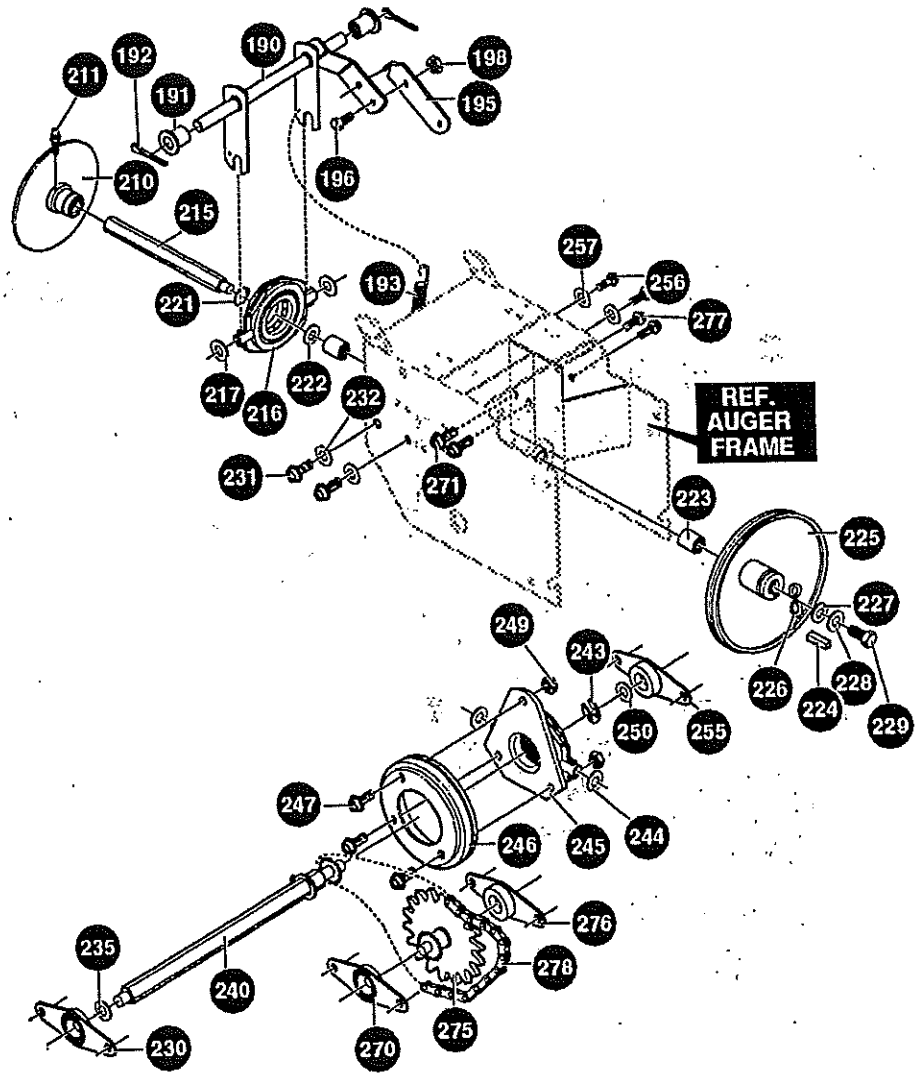
DRIVE COMPONENTS ASSEMBLY



REF NO.	PART NO.	PART NAME
190	579941	LEVER, ASSY TRACTION
191	313853	BEARING, FLANGE
192	137185	PIN, COTTER
193	313919	SPRING, RETURN
195	579937	LEVER, SPRING
196	11871	SCREW, 1/4-20X .63
198	1502	NUT, 1/4-20
210	583163-830	DISC, ASSY
211	583206	ZERK, GREASE
215	583155	SHAFT, HEX TRACTION
216	85501	BEARING, TRUNION
217	71074	FLATWASHER, .53 X1.00X.063
221	73811	RING, RETEX
222	580969	FLATWASHER, .680X1.12X.060
223	43836	BEARING, BALL
224	580970	KEY, SQUARE
225	580961	PULLEY, V3L 6.50X .56
226	580965	WASHER, WAVE
227	1084	FLATWASHER, .281X1.00X.063
228	120380	WASHER, .263X.49X.07
229	180020	SCREW, 1/4-20X .75 HHC

REF NO.	PART NO.	PART NAME
230	334163	BEARING & RETAINER
231	35497	SCREW, 5/16-18X .50
232	120638	WASHER,.328X.60X.09
235	579858	WASHER,.502X .75X.0605
240	579897	HEX, ASSY#40-8T
243	462	RING, RETEX
244	71074	FLATWASHER, .53 X1.00X.063
245	337029	BEARING, TRUNION
246	313883	WHEEL, ASSY FRICTION
247	11871	SCREW, 1/4-20X .63
249	303008	NUT, 1/4-20 HEXKEPS
250	579858	WASHER,.502X .75X.0605
255	334163	BEARING & RETAINER
256	35497	SCREW, 5/16-18X .50
257	120638	WASHER, .328X.60X.09
270	334163	BEARING & RETAINER
271	35497	SCREW, 5/16-18X .50
275	583010	JACK, ASSY#41-36T&7T
276	334163	BEARING & RETAINER
277	35497	SCREW, 5/16-18X .50
278	579867	CHAIN, ROLLER #42 X 40P

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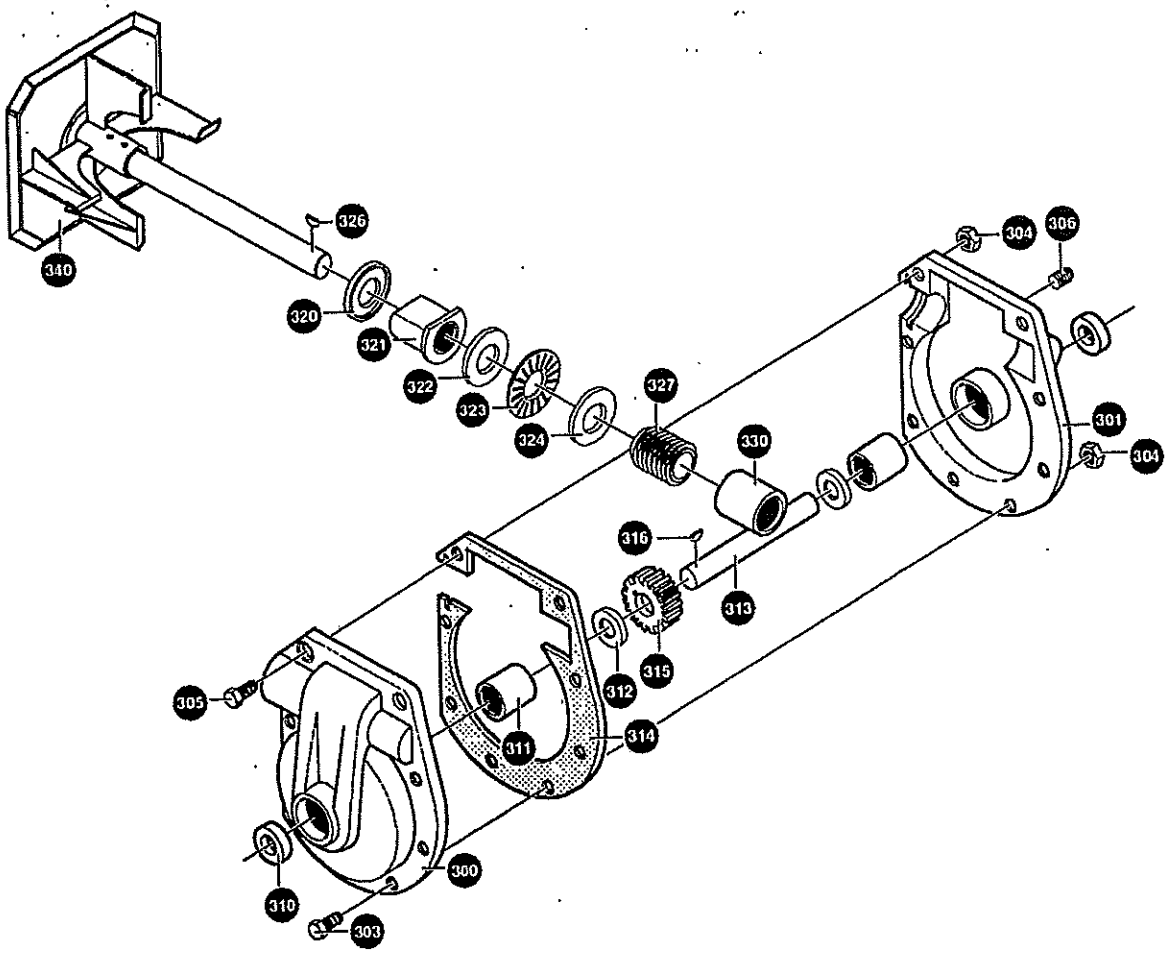
GEAR CASE ASSEMBLY

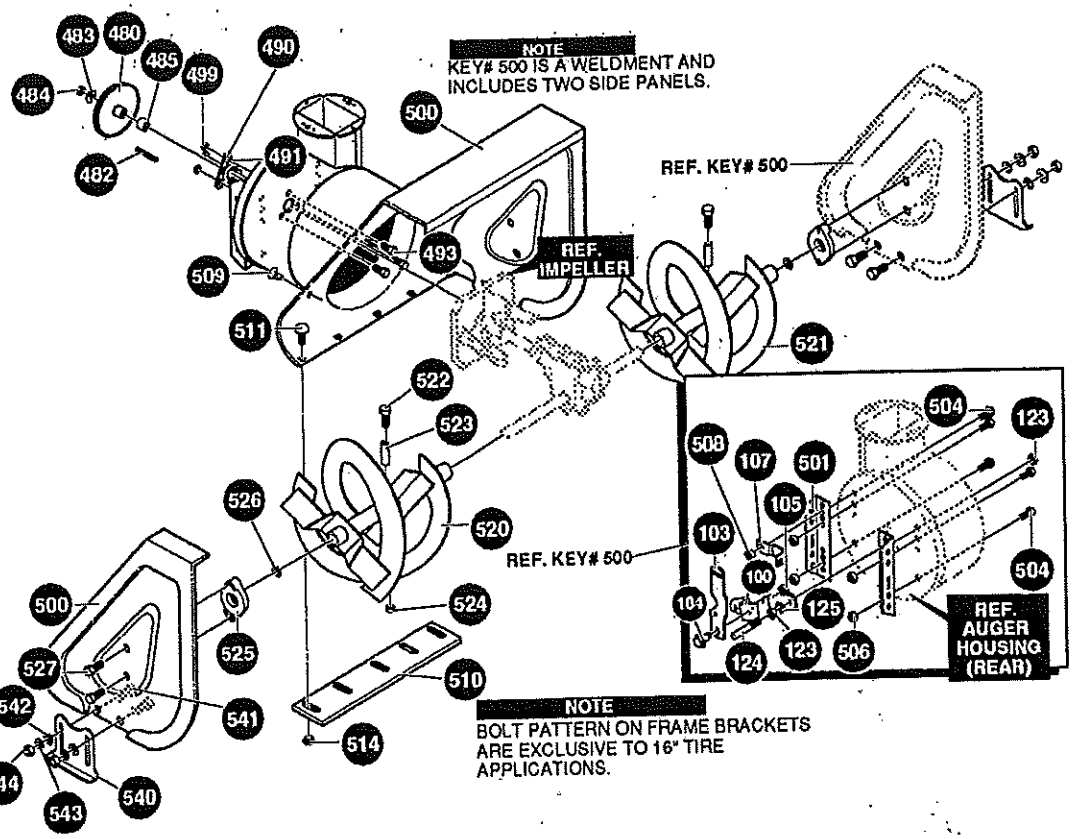


REF NO.	PART NO.	PART NAME
300	896	CASE, GEAR RH
301	895	CASE, GEAR LH
303	910828	SCREW, 5/16-24X1.00
304	71100	NUT, 5/16-24
305	330434	SCREW, 5/16-24X1.50
306	313872	PIPE PLUG
310	1065	SEAL, OIL
311	313870	BEARING, SLEEVE
312	313871	WASHER, FLAT
313	584513	SHAFT, AUGER, G2794010
	584512	SHAFT, AUGER, G2474010
314	897	GASKET, GEAR BOX
315	313861	WORM GEAR

REF NO.	PART NO.	PART NAME
316	73905	KEY, WDRF
320	313914	RING, QUAD
321	583126	BEARING, FLANGE
322	9346	FLATWASHER .752X1.24X.093
323	313828	BRNG, ROLL
324	9346	FLATWASHER .752X1.24X.093
326	50795	KEY, HI-PRO
327	313862	WORM GEAR
330	53731	BRNG, SLEV
340	585423-830	IMPELLER, ASSY

314014D

AUGER HOUSING ASSEMBLY

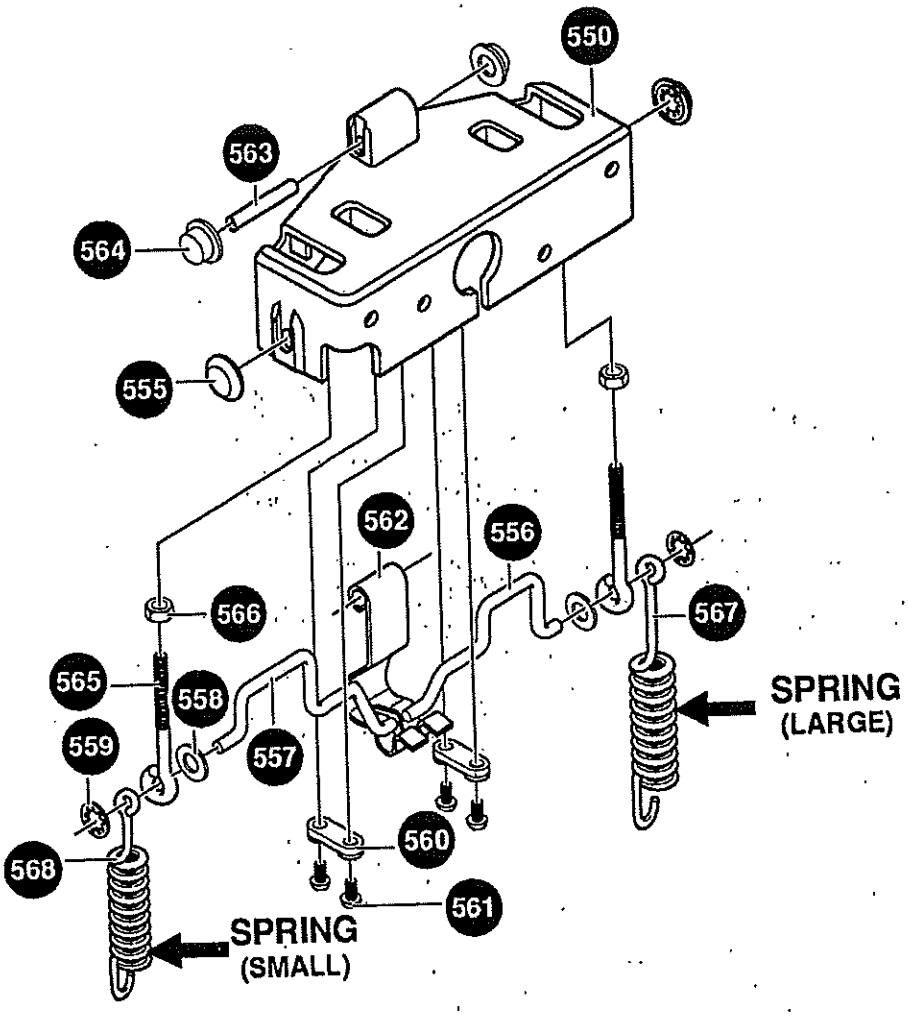


REF NO.	PART NO.	PART NAME
480	583146	PULLEY, V4L 8.40 OD
482	71371	KEY, SQUARE
483	71074	FLATWASHER .53 X1.00X.063
484	274654	NUT, 1/2-20
485	334514	SPACER, SLEEVE
490	582960	RETAINER, BALL
491	43846	BEARING, BALL
493	180077	SCREW, 5/16-18X .75
497	120638	WASHER, .328X.60X.09
499	710026	NUT, 5/16-18
500	339867-898	HOUSING, ASSY, G2794010
	339859-898	HOUSING, ASSY, G2474010
100	336657	PLATE, CLUTCH ARM MT
103	760073	BRACKET, IDLER
104	335587	SH. BOLT 3/8-16
105	1499	NUT, 3/8-16 RGHXCTRLK
107	340353	BRACKET, CABLE MT
123	1499	NUT, 3/8-16 RGHXCTRLK
124	586224	STUD, BRAKE ARM
125	120382	WASHER, HVSPTLK
501	585247	BRACKET, MOUNT
504	71003	SCREW, 3/8-16X .75 HHC
506	1499	NUT, 3/8-16 REGHXCTRLK
508	1499	NUT, 3/8-16
509	760040	PLUG, CHRISTMAS TREE

REF NO.	PART NO.	PART NAME
510	583035-830	SCRAPER BLADE G2794010
	578147-830	SCRAPER BLADE G2474010
511	70993	BOLT, 5/16-18X .75
514	710026	NUT, 5/16-18 WHIZ
520	339900-830	AUGER, ASSY RH G2794010
	339897-830	AUGER, ASSY RH G2474010
521	339899-830	AUGER, ASSY LH G2794010
	339895-830	AUGER, ASSY LH G2474010
522	9524	SCREW, 1/4-20X1.75
523	3943	SPACER, SLEEVE
524	1502	NUT, 1/4-20
525	313873	AUGER SHAFT BEARING
526	73755	FLATWASHER 1.005X1.31X.035
527	35498	SCREW, 5/16-18X .75
540	50643-830	SKID, HEIGHT ADJUST
541	70993	BOLT, 5/16-18X .75
542	120393	FLATWASHER .344X .69X.065
543	120638	WASHER, .328X.60X.09
544	120376	NUT, 5/16-18 REGHEX

339974 I

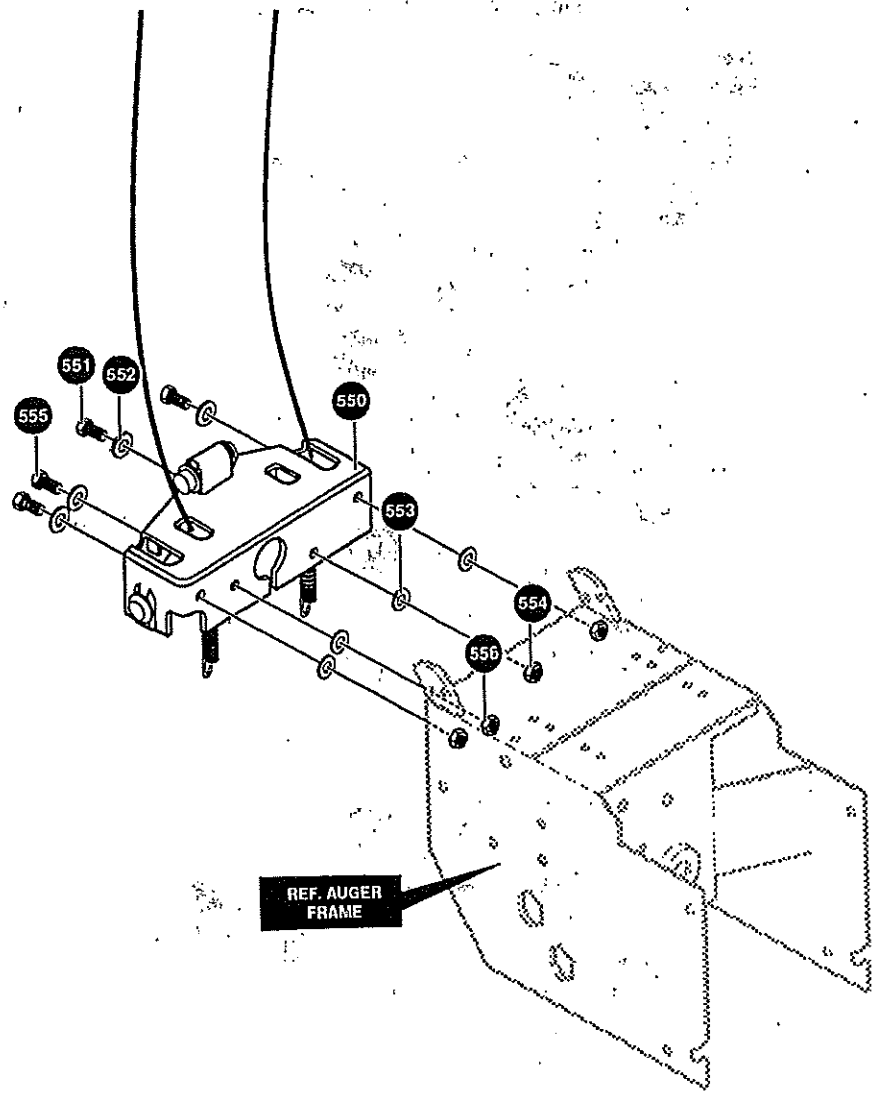
SINGLE HAND CONTROL ASSEMBLY



REF NO.	PART NO.	PART NAME
550	584635	HOUSING, SINGLE HAND
555	3535	NUT, PUSH ON CAP .312 OD
556	584723	CAM/LATCH, LH
557	584724	CAM/LATCH, RH
558	120393	WASHER, FLAT .344X .69X.065
559	519	RING, RETEX . X. TRU5115-31
560	585544	CLAMP, SHC CAM FRAME MOUNTED
561	584672	SCREW, .#8X .75PANTAPPLAST
562	8417	CAM LOCK
563	584673	PIN, SPRING PIVOT SHC
564	73664	NUT, PUSH ON 3/8"
565	584748	BOLT, EYE
566	120361	NUT, #10-24 REGH
567	339904	SPRING, DRIVE CLUTCH
568	339903	SPRING, AUGER CLUTCH

337446 B

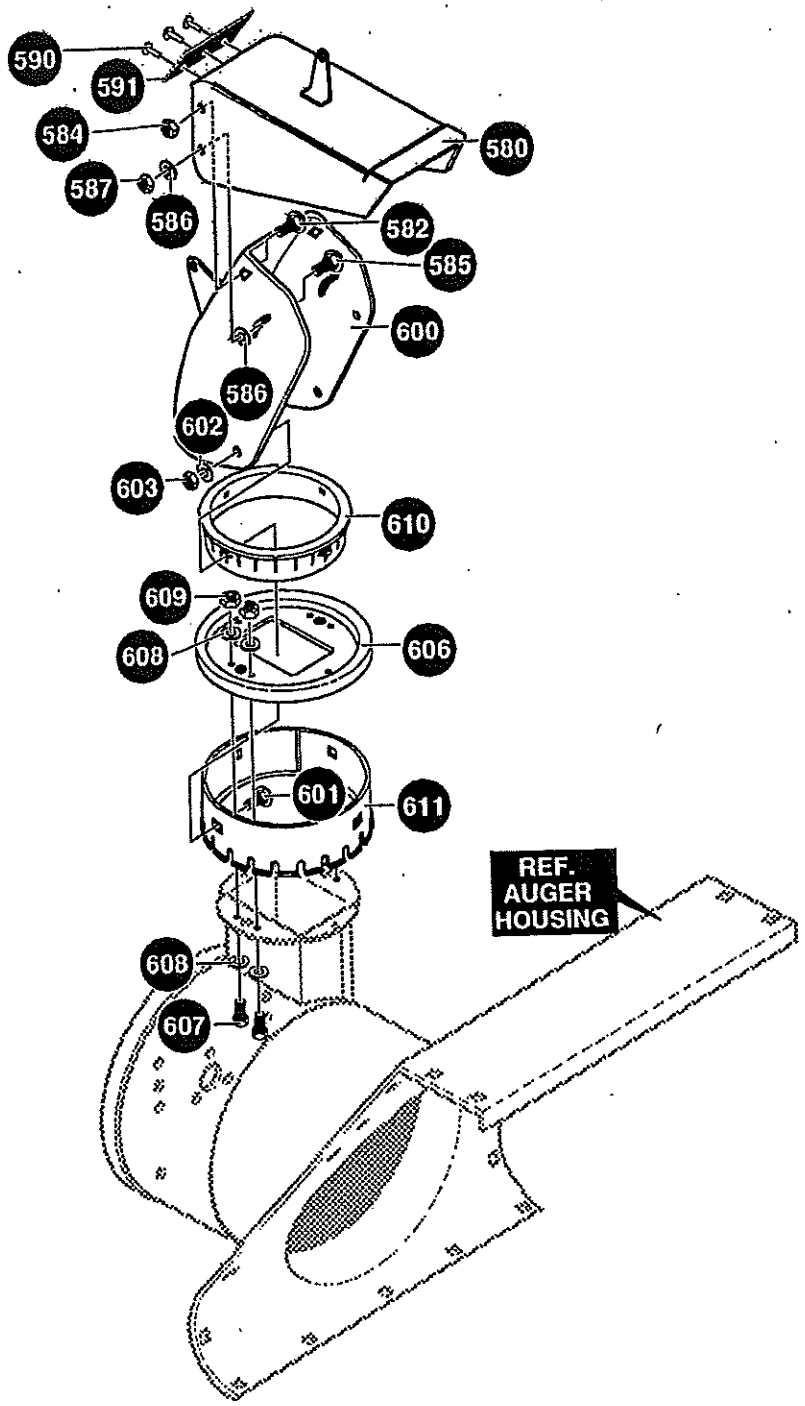
SINGLE HAND CONTROL ASSEMBLY



REF NO.	PART NO.	PART NAME
550	337444	CONTROL, ASSY SINGLE HAND
551	180077	SCREW, 5/16-18X .75 HHC
552	120393	WASHER, FLAT .344X .69X.065
553	120638	WASHER, HVSPTLK .328X.60X.09
554	120376	NUT, 5/16-18 REGHEX
555	910828	SCREW, 5/16-24X1.00 HHC
556	71100	NUT, 5/16-24 HEXWDFLLK

334072E

DISCHARGE CHUTE ASSEMBLY

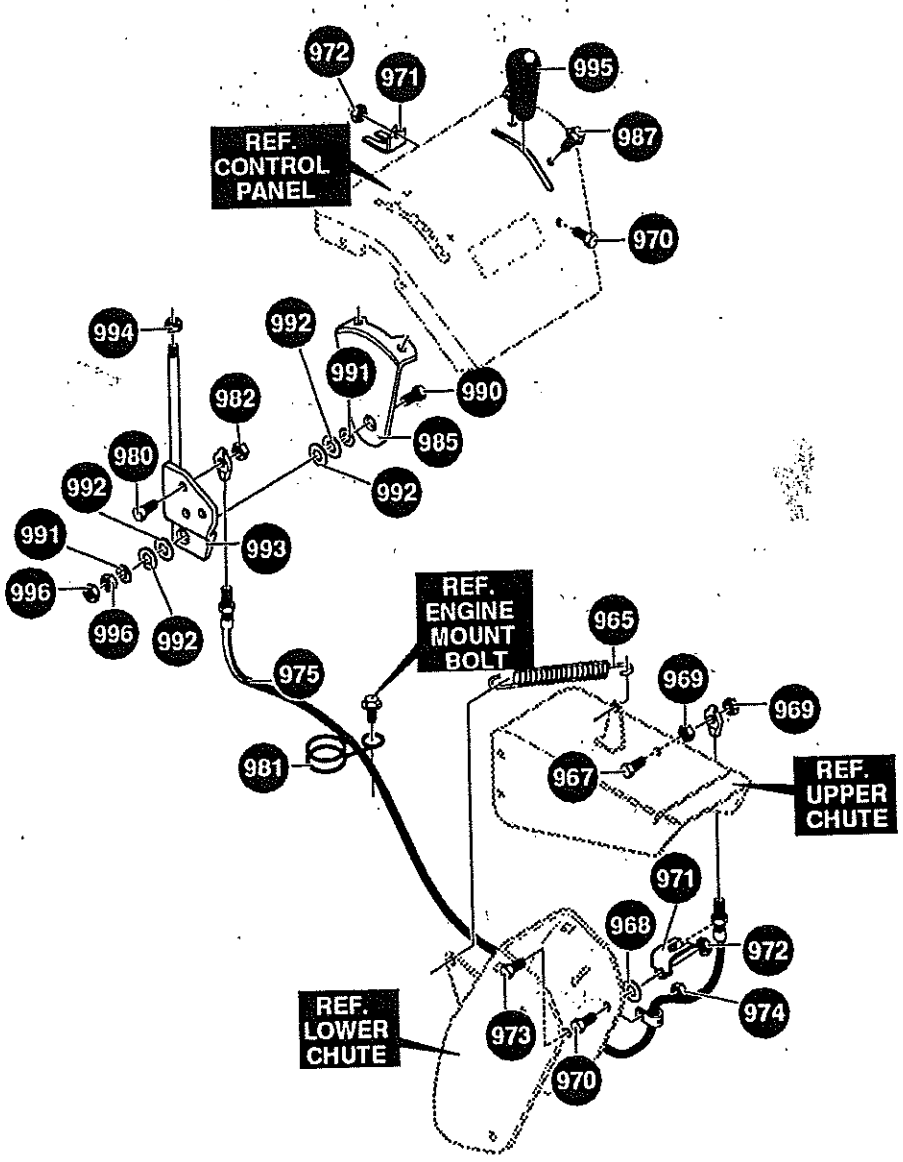


REF NO.	PART NO.	PART NAME
580	904040-830	CHUTE, UPPER
582	578088	SCREW, 5/16-18X .75
584	71038	NUT, 5/16-18 NYLON
585	578088	SCREW,5/16-18X.75
586	6711	WASHER, PLASTIC
587	71038	NUT, 5/16-18 NYLON
590	328683	POP RIVET
591	3194	SKIRT, CHUTE EXT.
600	4036	CHUTE, LOWER
601	586280	BOLT, 5/16-18X1.00

REF NO.	PART NO.	PART NAME
602	120393	FLATWASHER .344X .69X.065
603	71038	NUT, 5/16-18
606	585214-830	COLLAR, CHUTE
607	180020	SCREW, 1/4-20X .75
608	120392	FLATWASHER .281X .63X.065
609	1502	NUT, 1/4-20
610	337227	RETAINER, RING INNER
611	585193	RETAINER, RING OUTER

337609E-1

DISCHARGE CHUTE ASSEMBLY

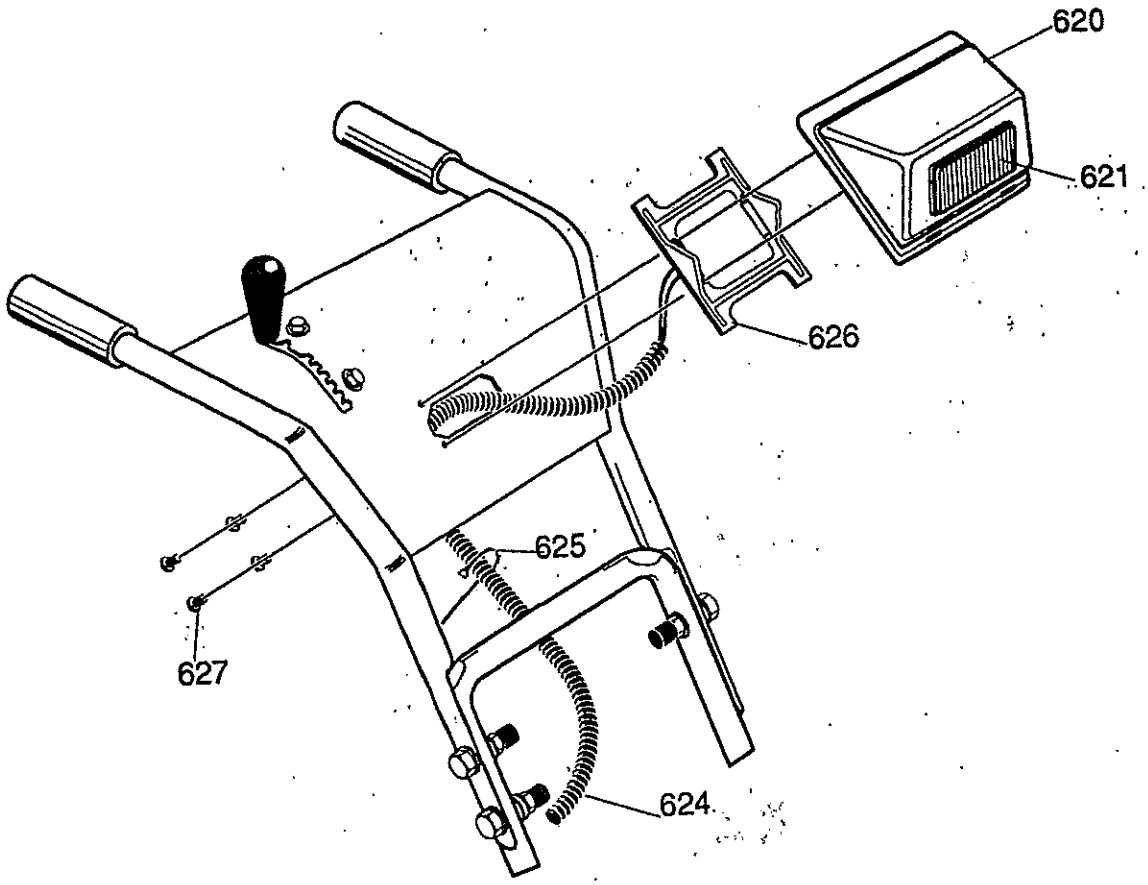


REF NO.	PART NO.	PART NAME
965	903519	SPRING, TENSION
967	56934	SCREW, 1/4-20 X 1.00
968	120393	WASHER, FLAT .349X.60X.065
969	1502	NUT, 1/4-20
970	180077	SCREW, 5/16-18 X .75
971	904173	BRACKET, CABLE CHUTE
972	1498	NUT, 5/16-18
973	35258	SCREW, 10-24X .38
974	71055	NUT, #10-24 HEXNYLLK
975	904052	CABLE, CHUTE CONTROL
980	180020	SCREW, 1/4-20X .75

REF NO.	PART NO.	PART NAME
981	904135	WIRE, FORM
982	1502	NUT, 1/4-20
985	985122	BRACKET
987	35497	SCREW, 5/16-18X .50
990	122168	SCREW, 3/8-16 X 1.75
991	120394	WASHER, FLAT .406X .81 X.065
992	4051	WASHER,SPRING
993	85031	HANDLE ASSY
994	1499	NUT, 3/8-16
995	304728	HANDLE
996	71046	NUT, 3/8-16 HEXNYL

337609E-2

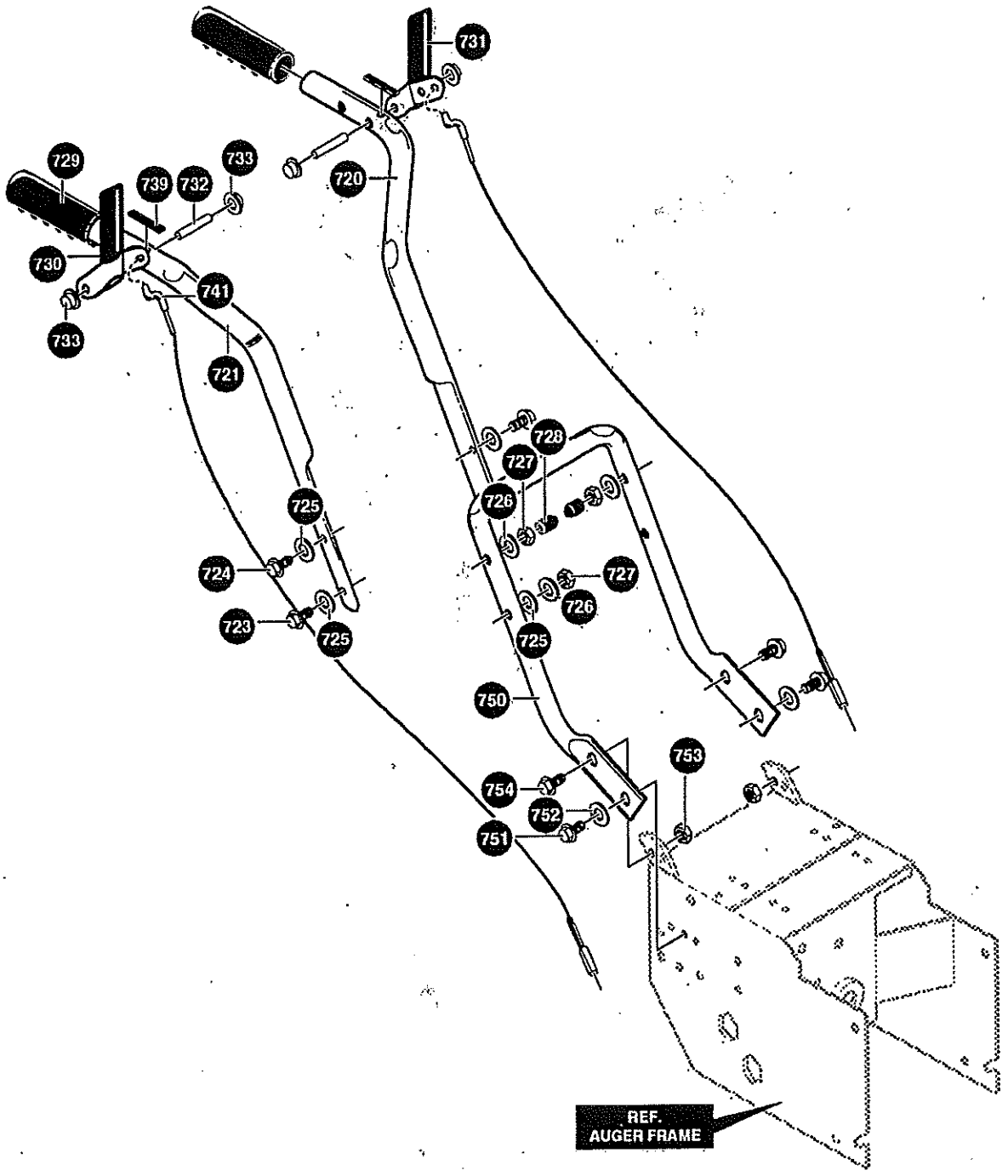
LIGHT PANEL ASSEMBLY



REF NO.	PART NO.	PART NAME
620	584731	HOUSING, LIGHT
621	581575	HEADLIGHT ASSY
624	331712	ASSY, HEADLIGHT WIRE HARNESS
625	57444	CABLE TIE
626	584732	BRACKET, PANEL
627	316042	SCREW, 10X.62

334082A

HANDLE ASSEMBLY

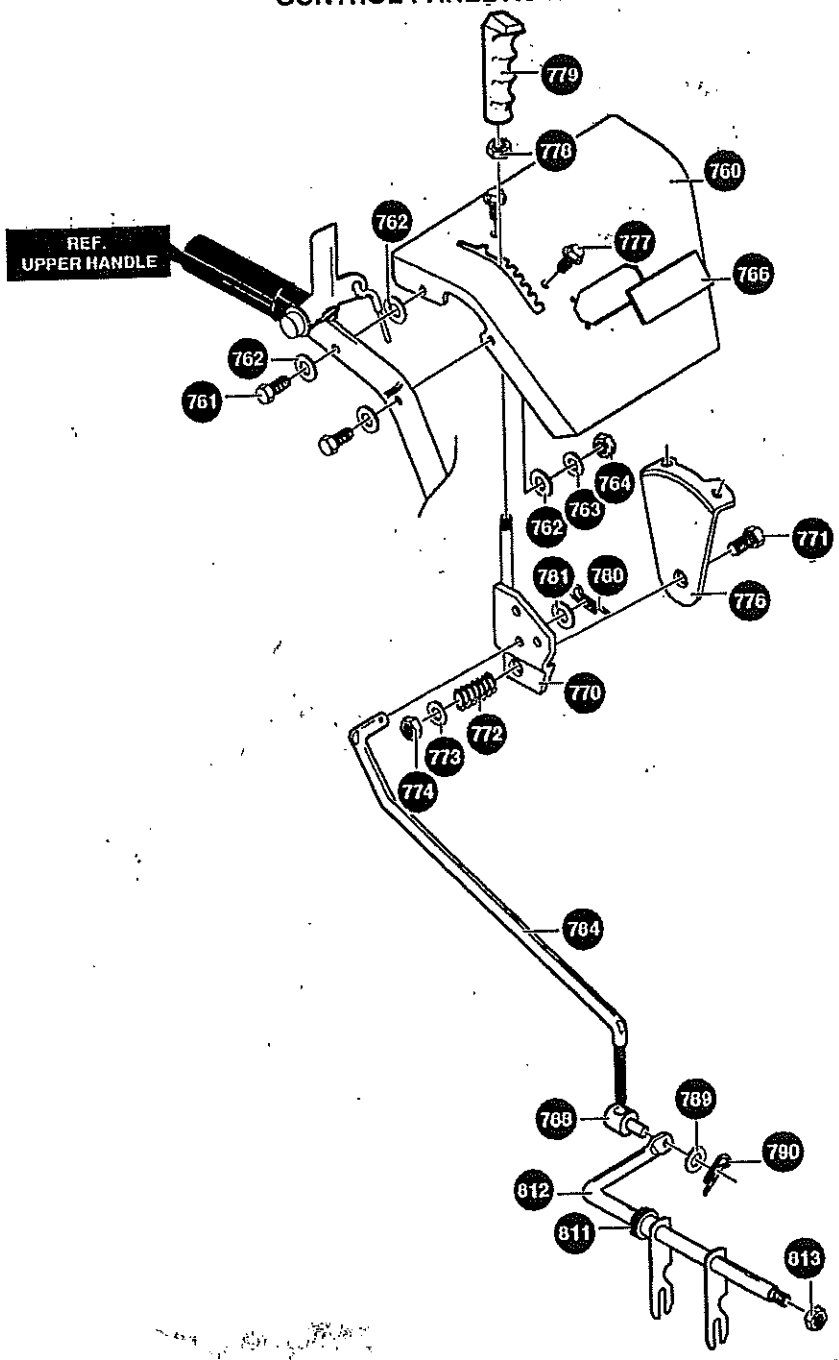


REF NO.	PART NO.	PART NAME
720	5113-830	HANDLE, UPPER LH
721	5115-830	HANDLE, UPPER RH
723	71007	SCREW, 3/8-16X2.00
724	7288	SCREW, 3/8-16X3.00
725	120394	WASHER, FLAT .406X .81X.065
726	120382	WASHER, .393X.68X.10
727	1499	NUT, 3/8-16
728	7289	STOP, PLASTIC
729	50792	GRIP, HANDLE
730	909734	HANDLE-CLUTCH

REF NO.	PART NO.	PART NAME
731	9731	HANDLE, ASSY CL LH
732	1058	PIN, PIVOT
733	3535	NUT, PUSH ON CAP
739	4049	BUMPER, RECT
741	584747	CABLE, CLUTCH
750	5543-830	HANDLE, LOWER
751	35498	SCREW, 5/16-18X .75
752	120638	WASHER
753	1498	NUT, 5/16-18
754	35498	SCREW, 5/16-18X .75

334394 E

CONTROL PANEL ASSEMBLY



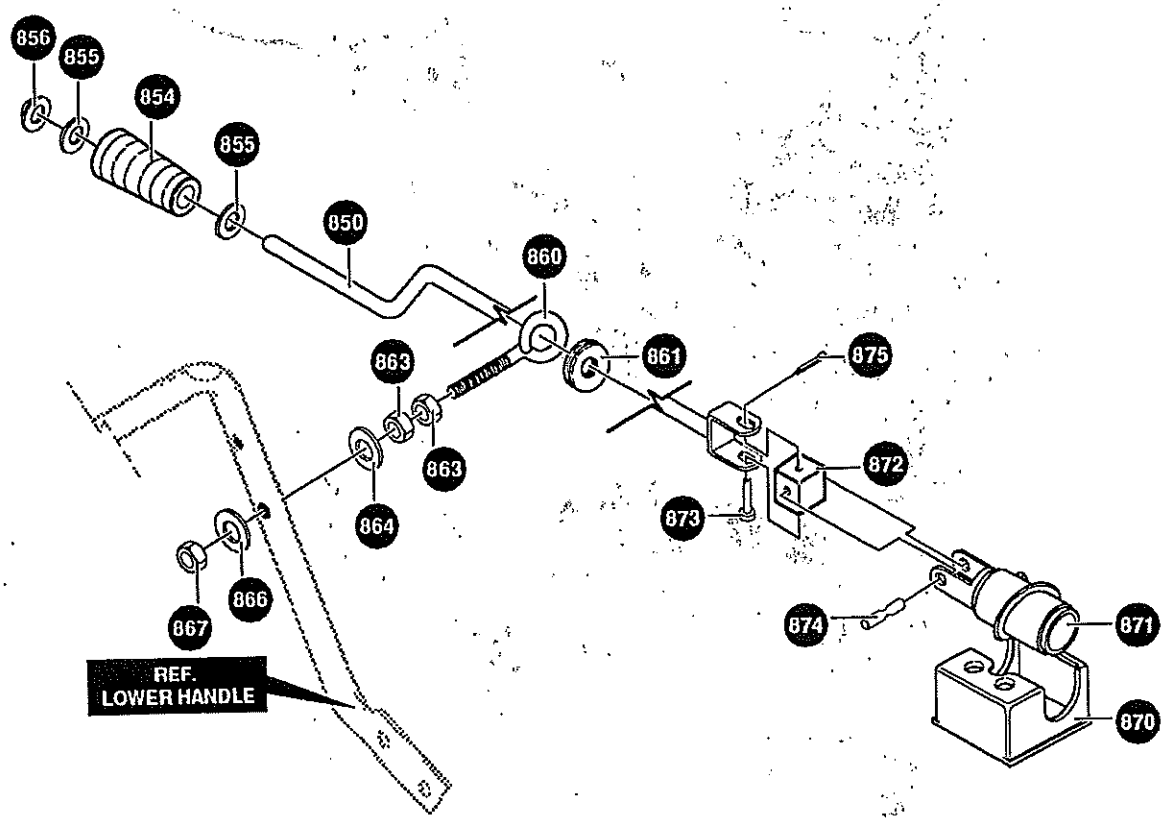
REF NO.	PART NO.	PART NAME
760	585864-898	PANEL,CONTROL
761	302900	SCREW, 5/16-18X1.75 HHC
762	120393	WASHER, FLAT .344X .69X.065
763	120638	WASHER,.328X.60X.09
764	120376	NUT, 5/16-18 REGHEX
766	-	NOT USED THESE UNITS
770	85031	HANDLE, ASSY
771	71007	SCREW, 3/8-16X2.00
772	313842	SPRING
773	120394	WASHER, FLAT .406X .81X.065
774	71046	NUT, 3/8-16
776	50783	BRACKET, SPEED CTRL

REF NO.	PART NO.	PART NAME
777	35497	SCREW, 5/16-18X .50
778	1499	NUT, 3/8-16
779	304728	HANDLE 3/8-16
780	121222	PIN, COTTER
781	120393	WASHER, FLAT
784	330635	ROD, SPEED CONTROL
788	584593	NUT, TRUNNION
789	120393	WASHER, FLAT .344X .69X.065
790	121222	PIN, COTTER
811	579944	BEARING, FLANGE
812	337436	ROD, ASSY
813	1499	NUT, 3/8-16

319052 H

G2474-010&G2794-010

CHUTE CRANK ASSEMBLY



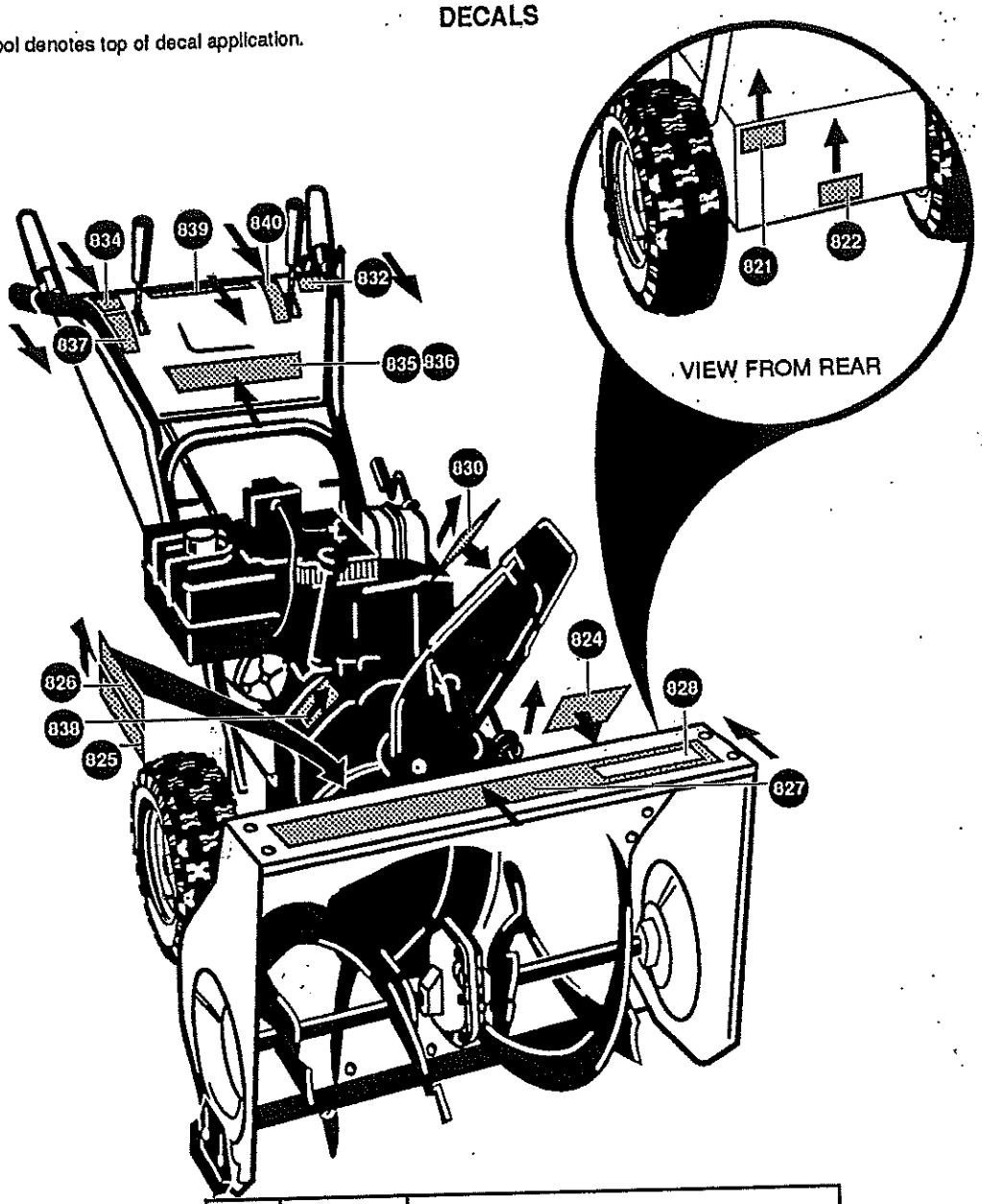
REF NO.	PART NO.	PART NAME
850	585426	CRANK, ASSY
854	313849	KNOB, SLEEVE
855	120394	WASHER, FLAT .406X .81X.065
856	73664	NUT, PUSH ON 3/8"
860	71457	BOLT, EYE
861	148	GROMMET, EYE BOLT
863	124829	NUT, 3/8-16
864	120394	WASHER, FLAT .406X .81X.065

REF NO.	PART NO.	PART NAME
866	120394	WASHER, FLAT .406X .81X.065
867	71046	NUT, 3/8-16
870	585195	BRKT, WORM
871	585196	WORM, GEAR CHUTE
872	578063	BLOCK, UNIV PIV
873	578309	PIN, CLEVIS
874	578060	PIN, UNIV JOINT
875	579493	PIN, COTTER .

336677 A

DECALS

Symbol denotes top of decal application.



REF NO.	PART NO.	PART NAME
821	-	NOT A SERVICABLE PART
822	7859	DECAL, OVER ADJ OF DISC
824	70141	DECAL, DANGER AUGER
825	-	NOT AVAILABLE ON THIS UNIT
826	302922	DECAL, DANGER
827	402805	DECAL, 9HP-27",G2794010
	402806	DECAL, 7HP-24",G2474010
828	-	NOT AVAILABLE ON THIS UNIT
830	313892	DECAL, DANGER CHUTE
832	402818	DECAL, WHEEL DRIVE
834	402819	DECAL, AUGER DRIVE
835	402803	DECAL, 9HP-27",G2794010
	402804	DECAL, 7HP-24",G2474010
836	-	NOT AVAILABLE ON THIS UNIT
837	402582	DECAL, SPEED
838	7390	DECAL, BELT STRETCH & ADJ
839	402815	DECAL, SINGLE HAND CONTROL
840	402816	DECAL, REMOTE CHUTE

334273 D

PARTS DISTRIBUTORS

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Milwaukee, WI. 53209
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1-800-733-7388
Illinois (N. of Hwy. 80) ***Michigan*** (Upper Peninsula), ***Minnesota, Wisconsin, North & South Dakota***

MURRAY, INC. Two Year Limited Warranty

MURRAY, INC. warrants to the original purchaser that this unit shall be free from defects in material and workmanship under normal use and service for a period of **Two (2) Years** from the date of purchase; however, this warranty does not cover engines, accessories (such as snow blowers, snow blades, grass baggers and plows), transmissions, batteries and Normal Wear Parts (except as noted below) or transaxles as the companies that manufacture these items furnish their own warranties and provide service facilities. For additional information, see the warranties covering these particular parts. If you are uncertain whether your unit contains or is equipped with one or more of these parts, consult your dealer prior to purchase. Subject to the terms and conditions noted in this Limited Warranty, we shall, at our option, repair or replace at no cost to the original purchaser any part covered by this Limited Warranty during the applicable warranty period.

Normal Wear Parts are defined as belts, blades, blade adapters, pneumatic tires, headlights and seat covers.These parts are warranted to be free from defects in material and workmanship as delivered with the product. Any claim for repair or replacement of Normal Wear Parts must be made within thirty (30) days of the date of purchase. No claims involving damage caused from material use, abuse or misuse will be honored.

This **Murray, Inc. Two (2) Year Limited Warranty** is your exclusive remedy; however, this warranty is void or does not apply to any unit that has been tampered with, altered, misused, abused or used for rental or other commercial and/or professional (non-homeowner) uses. Your warranty does not cover minor mechanical adjustments which are not due to any defect in material or workmanship. For assistance in making such adjustments, consult your Instruction Book.

To make a claim under this **Murray, Inc. Two (2) Year Limited Warranty**, return the unit (or if authorized in advance, the defective part) along with your proof of purchase to an Authorized Service Center near you. To locate the nearest Authorized Service Center, call the Central Parts Distributor for your area shown in the list provided with your unit or check the Yellow Page listings in your local telephone directory. If you return the entire unit, we will repair the unit. If we authorize the return of the defective part only, we will either replace or repair the part. In case of a defect in a transmission or differential (as distinguished from a transaxle), the entire transmission or differential must be returned since they do not include user serviceable parts.

This **Murray, Inc. Two (2) Year Limited Warranty** gives you specific legal rights, and you may also have other rights which vary from state to state. **This Limited Warranty is given in lieu of all other expressed and implied warranties including the implied warranty of merchantability and warranty of fitness for a particular purpose.** If you need additional information on this written warranty or assistance in obtaining service, write or call:

MURRAY, INC.
Outdoor Power Equipment
P.O. Box 268
Customer Service Department
Brentwood, Tennessee 37027
Telephone 1-800-251-8007