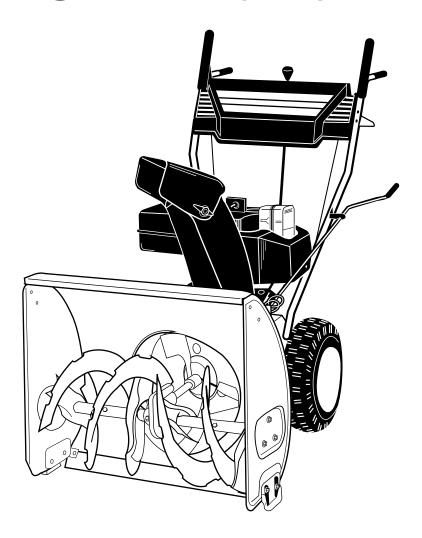


OPERATOR'S MANUAL



SNOW THROWERS Models

E600E, E610E E640F, E660G



IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 368022 Cleveland, Ohio 44136-9722.

MTD PRODUCTS INC. P.O. BOX 368022 CLEVELAND, OHIO 44136-9722

PRINTED IN U.S.A. FORM NO. 770-8782A

SECTION 1: IMPORTANT SAFE OPERATION PRACTICES



WARNING: THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR SNOW THROWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL-HEED ITS WARNING.



WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



DANGER: Your snow thrower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

1. TRAINING

- Read this operator's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Never allow children under 14 years old to operate a snow thrower. Children 14 years old and over should only operate snow thrower under close parental supervision. Only persons well acquainted with these rules of safe operation should be allowed to use your snow thrower.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
- Keep the area of operation clear of all persons, especially small children and pets.
- Exercise caution to avoid slipping or falling, especially when operating in reverse.

2. PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
- Disengage all clutches and shift into neutral before starting engine.
- Do not operate equipment without wearing adequate winter outer garments. Do not wear jewelry, long scarfs or other loose clothing which could become entangled in moving parts. Wear footwear which will improve footing on slippery surfaces.

- Before working with gasoline, extinguish all cigarettes and other sources of ignition. 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 until engine has been allowed to cool at least two minutes. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- Use a grounded three wire plug-in for all units with electric drive motors or electric starting motors.
- Adjust collector housing height to clear gravel or crushed rock surface.
- Never attempt to make any adjustments while engine is running (except where specifically recommended by manufacturer).
- Let engine and machine adjust to outdoor temperature before starting to clear snow.
- 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.

3. OPERATION

- Do not put hands or feet near or under rotating parts. Keep clear of discharge opening and auger at all times.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- 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.

- 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.
- Stop engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and making any repairs, adjustments, or inspections. Never place your hand in the discharge or collector openings. Use a stick or wooden broom handle to unclog the discharge opening.
- Take all possible precautions when leaving the unit unattended. Disengage the collector/impeller, shift into neutral, stop the engine, and remove the key.
- 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.
- Do not run engine indoors, except when starting engine and transporting snow thrower in or out of building. Open doors. Exhaust fumes are dangerous.
- Do not clear snow across the face of slopes.
 Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
- Never operate snow thrower without guards, plates, or other safety protection devices in place.
- 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.
- Do not overload machine capacity by attempting to clear snow at too fast a rate.

- Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when backing.
- Never direct discharge at bystanders or allow anyone in front of unit.
- Disengage power to collector/impeller when transporting or not in use.
- Use only attachments and accessories approved by the manufacturer of snow thrower (such as wheel weights, counter weights, cabs, 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.
- Muffler and engine become hot and can cause a burn. Do not touch.

4. MAINTENANCE AND STORAGE

- Check shear bolts, engine mounting bolts, etc., at frequent intervals for proper tightness to be sure equipment is in safe working condition.
- 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.
- Always refer to operator's manual instructions for important details if snow thrower is to be stored for an extended period.
- Run machine a few minutes after throwing snow to prevent freeze up of collector/impeller.
- Check clutch controls periodically to verify they engage and disengage properly and readjust if necessary. Refer to operator's manual for adjustment instructions.



WARNING - YOUR RESPONSIBILITY: Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.







SECTION 2: FINDING YOUR MODEL NUMBER

This Operator's Manual is an important part of your new snow thrower. It will help you assemble, prepare and maintain your snow thrower. Please read and understand what it says.

Before you start to prepare your snow thrower for its first use, please locate the model plate and copy the information from it in this Operator's Manual. The information on the model plate is very important if you need help from your dealer or the MTD customer support department.

- Every snow thrower has a model plate. You can locate it by standing behind the unit in the operating position and looking down at the rear frame below the engine.
- · The model plate will look like Figure 2.

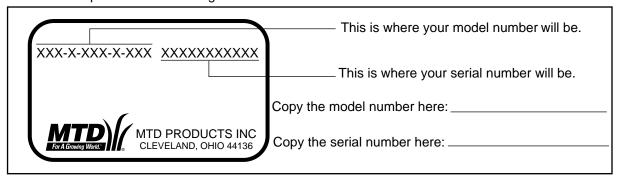


Figure 2

SECTION 3: CALLING CUSTOMER SUPPORT

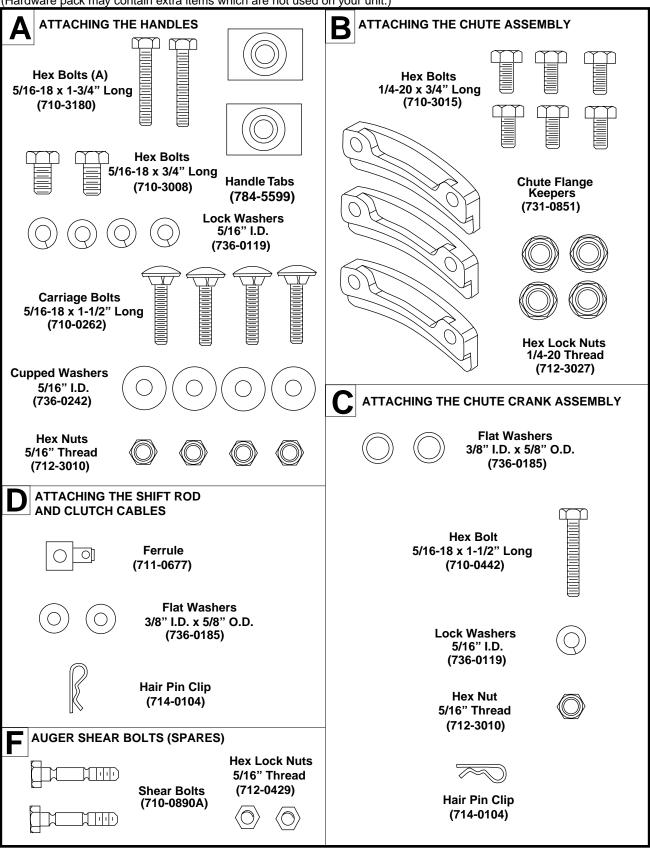
If you are having difficulty assembling this product or if you have any question regarding the controls, operation or maintenance of this snow thrower, please call the Customer Support Department. You can reach them by calling:

1-800-800-7310

Before you call, make sure that you have both your model and serial number ready. By having the model and serial number ready, you help the Customer Support Representative give you faster service. To find your units model and serial number, see SECTION 2: FINDING YOUR MODEL NUMBER.

SECTION 4: CONTENTS OF HARDWARE PACK

Lay out the hardware according to the illustration for identification purposes. Part numbers are shown in parentheses. (Hardware pack may contain extra items which are not used on your unit.)



Note: Parts are not to actual size.

SECTION 5: ASSEMBLY INSTRUCTIONS

IMPORTANT: After assembly, service engine with gasoline, and check oil level as instructed in the separate engine manual packed with your unit.

NOTE: All references to right or left side of the snow thrower are determined from behind the unit in the operating position.

UNPACKING

- Remove staples or break glue on the top flaps of the carton. Remove any loose parts included with unit (i.e., Operator's Manual, etc).
- Cut along dotted lines and lay end of carton down flat. Remove packing material.
- Roll unit out of carton. Check carton thoroughly for loose parts before discarding.

TOOLS REQUIRED FOR ASSEMBLY

- (1) 3/8" Wrench
- (2) 7/16" Wrench*
- (2) 1/2" Wrench*
- 9/16" Wrench
- Pair of pliers

*or adjustable wrench

Α

LOOSE PARTS IN CARTON See Figure 3

- (2) Handles (Right and Left)
- B (1) Handle Panel Assembly
- C (1) Chute Assembly
- D (1) Chute Crank Assembly w/ Upper Mounting Bracket
- E (1) Shift Rod
 - (1) Hardware Pack (not illustrated)

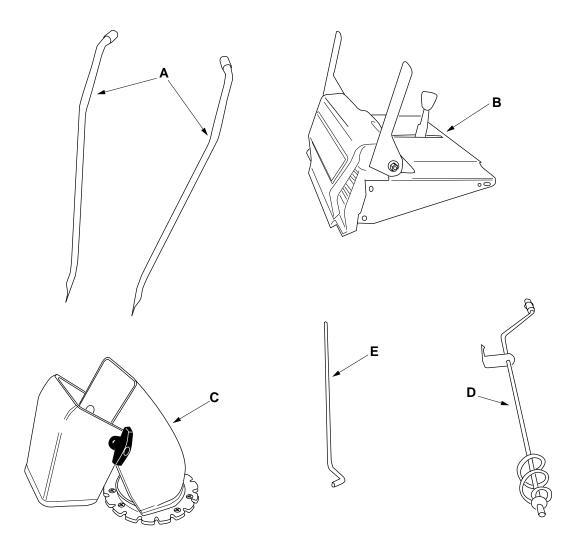


Figure 3

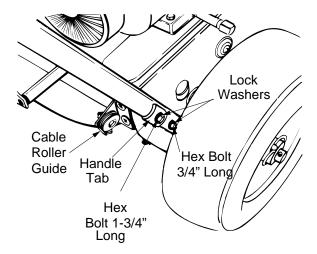


Figure 4

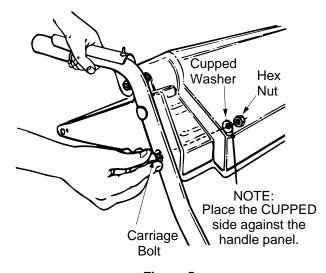


Figure 5

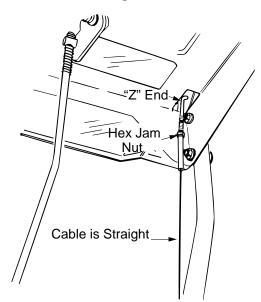


Figure 6

ATTACHING THE HANDLE ASSEMBLY

(Hardware A)

- Place right handle (A) in position against the snow thrower so the flat side of the handle is against the snow thrower. Secure bottom hole in handle to snow thrower using hex bolt 3/4" long and lock washer. See Figure 4. Do not tighten at this time.
- Place handle tab over the upper hole in handle so the curve in the handle tab matches the curve in the handle. Secure to the snow thrower using hex bolt 1-3/4" long and lock washer. Do not tighten at this time.
- 3. Attach the left handle (A) in the same manner. Do not tighten at this time.
- 4. Place the handle panel (B) in position between the handles. To hold the handle panel in place, depress both clutch grips against the handles. While continuing to hold the right hand grip, release the left hand grip (the auger clutch lock will keep left hand grip engaged). See Figure 4.
- 5. Fasten right side of the handle panel by inserting two carriage bolts through handle and handle panel (bolts must go through both the plastic and metal parts of the handle panel). Secure with cupped washers (cupped side against handle panel) and hex nuts. See Figure 5.
- 6. Secure the left side of the handle panel in the same manner.
- 7. Tighten the four hex bolts used to attach the bottom of the handles to the snow thrower frame.

ATTACHING THE CLUTCH CABLES

The "Z" end of the clutch cables are hooked into the clutch grips on each handle. Attach cables as follows.

- 1. Thread the hex jam nuts **all the way** up the threaded portion of the "Z" ends of the clutch cables.
- Make certain all cables are in the grooves of the cable roller guides. The two roller guides are located in the lower rear of the unit, one on each side.
- 3. Thread the cable onto the threaded portion of the "Z" end until there is no slack in the cable, but the cable is NOT tight. Do not overtighten cable. See Figure 6.



WARNING: If cable is tightened so there is tension on the cable with the clutch grip released, the safety features of the snow thrower may be overridden.

4. When correct adjustment is reached, tighten the hex jam nut against the bottom portion of the cable to lock it in position.

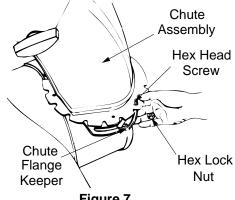


Figure 7

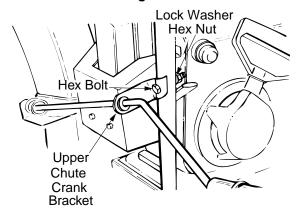


Figure 8

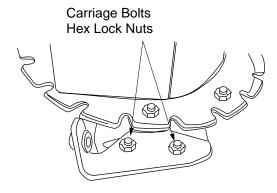


Figure 9

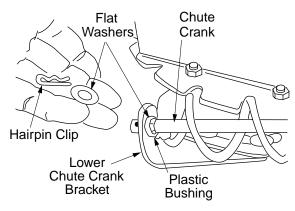


Figure 10

ATTACHING THE CHUTE ASSEMBLY (Hardware B)

Place chute assembly (C) over chute opening, with the opening in the chute assembly facing the front of the unit. Place chute flange keepers beneath lip of chute assembly, with the flat side down. Secure with hex head screws and hex lock nuts as shown in Figure 7. Tighten with two 7/16" wrenches. Do not overtighten.

NOTE: Locknuts cannot be threaded onto a bolt by hand. Tighten with 2 7/16" wrenches. This type of nut is used where vibration occurs.

ATTACHING THE CHUTE CRANK (Hardware C)

- 1. Insert hex bolt 1-1/2" long through the upper chute crank bracket (D). See Figure 8.
- 2. Place the hex bolt into the hole provided in the left handle. Secure with lock washer and hex nut. Do not tighten until after attaching the other end of the chute crank.
- 3. To align the spiral on the chute crank, it may be necessary to loosen the carriage bolts and hex lock nuts which secure the lower chute crank bracket to the extension on the left side of the chute assembly. See Figure 9.
- 4. Place one flat washer on the end of the chute crank, then insert the end of the crank into the hole in the plastic bushing in the chute crank bracket. See Figure 10. Place another flat washer on the end of the chute crank, and insert hairpin clip into hole in the end of crank.
- 5. 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 lower chute crank bracket securely. Tighten the hex bolt and nut on the upper chute crank bracket on the handle.

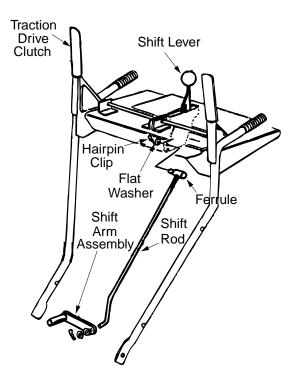


Figure 11

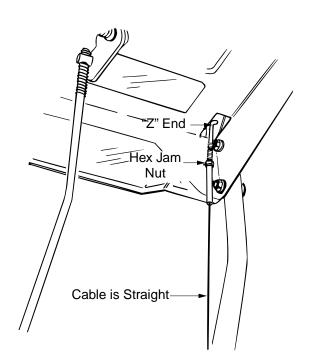


Figure 12

IMPORTANT: Attach the shift rod and clutch cables as follows. THEN CHECK THE ADJUSTMENTS AS INSTRUCTED, AND MAKE ANY FINAL ADJUSTMENTS NECESSARY <u>BEFORE</u> OPERATING YOUR SNOW THROWER. Failure to follow the instructions may cause damage to the snow thrower.

ATTACHING THE SHIFT ROD (Hardware D)

- 1. Place the shift lever (on the handle panel) in the sixth (6) speed position (all the way forward).
- 2. Place the bent end of the shift rod (E) into the hole in the shift arm assembly. See Figure 11. Secure with flat washer and hairpin clip.
- 3. Start threading the ferrule onto the other end of the shift rod. Push down on the shift rod (and shift arm assembly) as far as it will go.
- 4 Thread the ferrule onto the shift rod until the ferrule lines up with the **upper** hole in the shift lever (beneath the handle panel). Insert the ferrule into the upper hole in the shift lever from the left side when adjustment is correct. Secure with flat washer and hairpin clip.

Make certain to check for correct adjustment of the shift rod as instructed in the Final Adjustment section before operating the snow thrower.

FINAL ADJUSTMENTS

Auger Drive Clutch

To check the adjustment of the auger drive clutch, push forward on the left hand clutch grip (depress the rubber bumper). There should be slack in the cable. Release the clutch grip. The cable should be straight. Make certain you can depress the auger drive clutch grip against the left handle completely.

If necessary, loosen the hex jam nut and thread the cable in (for less slack) or out (for more slack) as necessary. Refer to Figure 12. Recheck the adjustment. Tighten the jam nut against the cable when correct adjustment is reached.

Traction Drive Clutch and Shift Lever Adjustment

To check the adjustment of the traction drive clutch and shift lever, move the shift lever all the way forward to sixth (6) position. With the traction drive lever released, push the snow thrower forward. The unit should move forward freely. Then engage the traction drive clutch grip. The wheels should stop turning.

Now release the traction drive clutch grip, and push the unit again. Move the shift lever back to the fast reverse position, then all the way forward again. There should be no resistance in the shift lever, and the and the wheels should keep turning.

If you have resistance when moving the shift lever or the wheels stop when they should not, loosen the jam nut on the traction drive cable and unthread the cable one turn. If the wheels do not stop when you engage the traction drive clutch grip, loosen the jam nut on the traction drive cable and thread the cable in one turn. Recheck the adjustment and repeat as necessary. Tighten the jam nut to secure the cable when correct adjustment is reached.

NOTE: If you are uncertain that you have reached the correct adjustment, refer to the Adjustment section on page 14.

ADJUSTING THE SKID SHOES

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 13.

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.

It is not recommended that you operate this snow thrower on gravel as loose gravel can be easily picked up and thrown by the auger causing an injury or damage to the snow thrower.

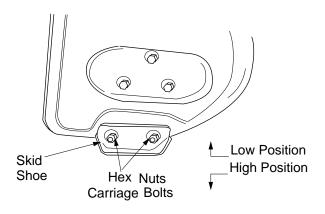


Figure 13

TIRE PRESSURE (Pneumatic Tires)

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.

SECTION 6: CONTROLS

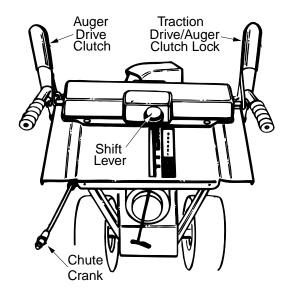


Figure 14

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

Forward—one of six speeds. Position number one (1) is the slowest. Position number six (6) is the fastest.

Reverse—two reverse (R) speeds. "R" closest to the operator (all the way back) is the faster of the two.



Figure 15

AUGER DRIVE (See Figure 14)

The auger drive clutch is located on the left handle. Squeeze the clutch grip to engage the augers. Release to stop the snow throwing action. (Traction drive clutch must also be released.)

TRACTION DRIVE/AUGER CLUTCH LOCK

(See Figure 14)

The traction drive clutch is located on the right handle. Squeeze the traction drive clutch to engage the wheel drive. Release to stop.

This same lever also locks the auger clutch so you can turn the chute crank without interrupting the snow throwing process. If the auger drive clutch is engaged with the traction drive clutch engaged, the operator can release the auger drive clutch (on the left handle) and the augers will remain engaged. Release the traction drive clutch to stop both the augers and wheel drive (auger drive clutch must also be released).

CHUTE CRANK (See Figure 14)

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 17)

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

SAFETY IGNITION SWITCH (See Figure 17)

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.

FUEL SHUT-OFF VALVE

The fuel shut-off valve, located under fuel tank, controls fuel flow from tank. (If equipped)

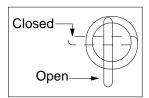


Figure 16

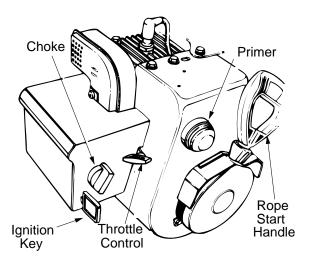


Figure 17

SECTION 7: OPERATION

BEFORE STARTING



WARNING: Observe all Warning Labels on the snow thrower prior to use. See Figure 1.

Your snow thrower is shipped with oil; however, you must check the oil level before operating. Be careful not to overfill.

The spark plug wire was disconnected for safety. Attach spark plug wire to spark plug before starting.

GAS AND OIL FILL-UP

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



WARNING: Never fill fuel tank indoors. Never fill fuel tank with engine running or while engine is hot. Do not smoke when filling fuel tank.

TO START ENGINE

 Attach spark plug wire to spark plug. Make certain the metal loop on end of the spark plug wire (inside the boot) is fastened securely over the metal tip on the spark plug. See Figure 18.

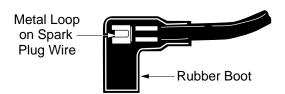
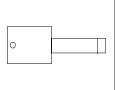


Figure 18

- Make certain the fuel cutoff valve is in the OPEN (vertical) position.
- 3. Make certain the auger and drive clutch levers are in the disengaged (released) position.
- Move throttle control up to FAST position. Insert ignition key into slot. See Figure 19. Be certain it snaps into place. Do not turn key.

ENGINE WILL NOT START UNLESS IGNITION KEY IS INSERTED INTO IGNITION SLOT IN CARBURETOR COVER. DO NOT TURN IGNITION KEY.



Electric Starter:



WARNING: The electric 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 electric shock which may be injurious to the operator.

Follow all instructions carefully. Determine that your house wiring is a three wire grounded system. Ask a licensed electrician if you are not certain. If your house wiring system is not a three-wire grounded 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 the power cord, always connect cord to starter on engine first, then plug the other end into a three-hole grounded receptacle.

When disconnecting the power cord, always unplug the end from the three-hole grounded receptacle first.

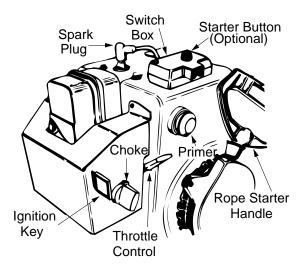


Figure 19

- 1. Rotate choke knob to OFF position.
- Connect power cord to switch box on engine. Plug the other end of power cord into a threehole, grounded 12-volt AC receptacle.
- Push starter button to crank engine. See Figure 19. As you crank the engine, move choke knob to FULL choke position. (cold engine start)
- When engine starts, release starter button, and move choke gradually to OFF. If engine falters, move choke immediately to FULL and then gradually to OFF.

Recoil Starter:

- Rotate choke knob to FULL choke position (cold engine start).
- If engine is warm, place choke in OFF position instead of FULL.
- 3. Push primer button two or three times for cold engine start. See Figure 19.
- 4. If engine is warm, push primer button once only.

NOTE: Always cover vent hole in primer button when pushing. Additional priming may be necessary for first start if temperature is below 15 degrees Fahrenheit.

- 5. Grasp starter handle (see Figure 19) and pull rope out slowly, until it pulls slightly harder. Let rope rewind slowly.
- 6. Pull starter handle rapidly. Do not allow handle to snap back. Allow it to rewind slowly while keeping a firm hold on the starter handle.
- 7. Repeat step 8 until engine starts.
- 8. As engine warms up and begins to operate evenly, rotate choke knob slowly to OFF position. If engine falters, return to FULL choke, then slowly move to OFF position.

TO STOP ENGINE

- 1. Run engine for a few minutes before stopping to help dry off any moisture on the engine.
- 2. To help prevent possible freeze up of starter, proceed as follows.
 - Electric Starter: Connect power cord to switch box on engine, then to 120 volt AC receptacle. With the engine running, push starter button and spin the starter for several seconds. The unusual sound made by spinning the starter will not harm engine or starter. Disconnect the power cord from receptacle first, and then from switch box.
 - Recoil Starter: With engine running, pull starter rope with a rapid, continuous full arm stroke three or four times. Pulling the starter rope will produce a loud clattering sound, which is not harmful to the engine or starter.
- 3. To stop engine, move throttle control to "stop" or "off" position.
- 4. Remove the ignition key. Do not turn key. Disconnect the spark plug wire from the spark plug to prevent accidental starting while equipment is unattended.

NOTE: Do not lose the ignition key. Keep it in a safe place. Engine will not start without the ignition key.

 Wipe all snow and moisture from the carburetor cover in the area of the control levers. Also, move control levers back and forth several times.

TO ENGAGE DRIVE

- With the engine running near top speed, move shift lever into one of the five FORWARD positions or two REVERSE positions. Select a speed appropriate for the snow conditions that exist. Use the slower speeds until you are familiar with the operation of the snow thrower.
- 2. Squeeze the auger clutch grip and the augers will turn. Release it and the augers will stop.
- Squeeze the drive clutch grip and the snow thrower will move. Release it and drive motion will stop.
- NEVER move shift lever without releasing drive clutch.

TO ENGAGE AUGERS

To engage the augers and start the snow throwing action, squeeze the auger clutch grip against the left handle. Release to stop the augers.

TIRE CHAINS (Optional Equipment)

Tire chains should be used whenever extra traction is needed.

OPERATING TIPS

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



WARNING: Temperature of muffler and surrounding areas may exceed 150 degrees Fahrenheit. Avoid these areas.

- 1. For most efficient snow removal, remove snow immediately after it falls.
- 2. Discharge snow downwind whenever possible. Slightly overlap each previous swath.
- Set the skid shoes 1/4" below the scraper bar for normal usage. The skid shoes may be adjusted upward for hard-packed snow. Adjust downward when using on gravel or crushed rock.
- 4. Be certain to follow the precautions listed under "To Stop Engine" to prevent possible freeze-up.
- 5. Clean the snow thrower thoroughly after each use.

SECTION 8: ADJUSTMENTS



WARNING: NEVER attempt to clean chute or make any adjustments while engine is running. Refer to label in Figure 1 in safety section.

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 20.

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

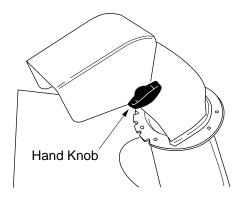


Figure 20

AUGER CLUTCH ADJUSTMENT

To adjust the auger clutch, refer to Final Adjustment section of Assembly Instructions.

SHIFT ROD ADJUSTMENT

To adjust the shift rod, separate the shift rod and ferrule from the shift lever by removing the hairpin clip and flat washer from the ferrule underneath the handle panel. Refer to Figure 12. Adjust as specified in the 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.

SKID SHOE ADJUSTMENT

The space between the shave plate and the ground can be adjusted. Refer to page 10 of the Assembly Instructions.

TRACTION DRIVE CLUTCH ADJUSTMENT

Refer to the Final Adjustment section of the Assembly Instructions to adjust the traction drive clutch. If you are uncertain that you have reached the correct adjustment, the adjustment can be physically checked as follows.

With the snow thrower tipped forward (be certain to drain the oil and gasoline or drain the oil and place plastic film under the gas cap if the snow thrower has already been operated), remove the frame cover underneath the snow thrower by removing six self-tapping screws.

With the traction drive clutch released, there must be clearance between the friction wheel and the drive plate in all positions of the shift lever. With the traction drive clutch engaged, the friction wheel must contact the drive plate. See Figure 21.

If adjustment is necessary, loosen the hex jam nut on the traction drive cable and thread the cable in or out as necessary. Tighten the hex jam nut to secure the cable when correct adjustment is reached. Reassemble the frame cover.

NOTE: If you placed plastic under the gas cap, be certain to remove it.

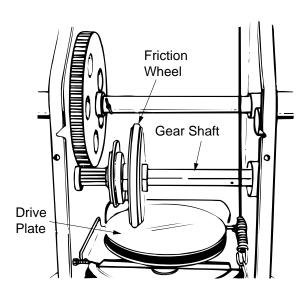


Figure 21

DRIVE WHEELS

The wheels may be adjusted for two different methods of operation. The adjustment is made by placing the klick pins in one of two different holes on the right side of the unit. See Figure 22.

- One Wheel Driving—Place klick pin in the outside axle hole on the right side. This position gives power drive to the left wheel only, making the unit easier to maneuver.
- Both Wheels Driving—Both Wheels Driving— Rotate wheel assembly to align hole in hub with inner hole on axle shaft. Insert klick pin in hole. Outer axle shaft hole should be visible. This position is good for heavy snow as there is power to both wheels. See Figure 22.

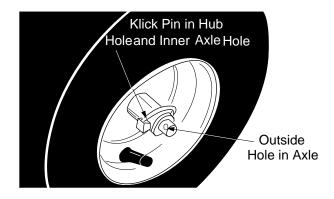


Figure 22

SECTION 9: LUBRICATION



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

ENGINE

Refer to engine manual for engine lubrication instructions.



WARNING: When following instructions in separate engine manual for draining oil, be sure to protect frame to avoid oil dripping onto transmission parts.

CHUTE CRANK

The worm gear on the chute direction crank should be greased with multipurpose automotive grease.

WHEELS

Oil or spray lubricant into bearings at wheels at least once a season. Pull the klick pins and remove wheels, clean and coat axles with a multipurpose automotive grease. See Figure 23.

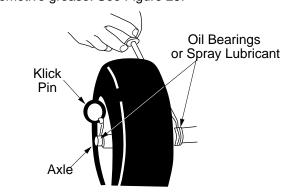


Figure 23

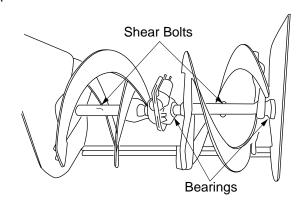


Figure 24

AUGER SHAFT

Remove shear bolts on auger shaft. Oil or spray lubricant inside shaft. See Figure 24.

GEAR SHAFT

Lubricate the gear shaft with a good all-weather multi-purpose light grease at least once a season or after every 25 hours of operation.

IMPORTANT: Keep all grease and oil off of the friction wheel and drive plate.

DRIVE AND SHIFTING MECHANISM

Remove rear cover. Oil any chains, sprockets, gears, bearings, shafts, and shifting mechanism at least once a season. Use engine oil or a spray lubricant. Avoid getting oil on rubber friction wheel and aluminum drive plate.

GEAR CASE

The worm gear case has been filled with grease at the factory. If disassembled for any reason, lubricate with 2 ounces of Shell Alvania grease EPR00, part number 737-0168. Before reassembling, remove old sealant and apply "Loctite 5699" or equivalent.

IMPORTANT: Do not overfill the gear case. Damage to the seals could result. Be sure the vent plug is free of grease in order to relieve pressure.

SECTION 10: MAINTENANCE

AUGERS

The augers are secured to the spiral shaft with two shear bolts and hex lock nuts. See Figure 24. If you hit a foreign object or ice jam, the snow thrower is designed so that the hex bolts will shear.

If the augers will not turn, check to see if the bolts have sheared. Two replacement shear bolts and hex lock nuts have been provided with the snow thrower. For future use, order part number 710-0890A (shear 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. To remove skid shoes, remove the four carriage bolts, bell washers and hex nuts which attach them to the snow thrower. Reassemble new skid shoes with the four carriage bolts, bell washers (cupped side goes against skid shoes) and hex nuts. Make certain the skid shoes are adjusted to be level.

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

ENGINE

Refer to separate engine manual for all engine maintenance procedures.

BELT REMOVAL AND REPLACEMENT



WARNING: Disconnect the spark plug wire from the spark plug and ground.

AUGER BELTS

NOTE: It is necessary to remove both belts in order to change either one. If changing just one belt, be certain to check the condition of the other belt (model 600/610E has only one auger belt).

 Remove the plastic belt cover on the front of the engine by removing the two self-tapping screws. See Figure 25.

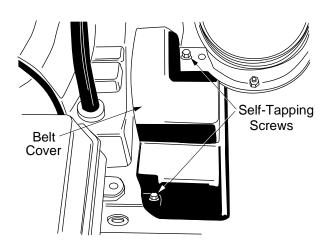


Figure 25

- 2. Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.
- 3. Tip the snow thrower up and forward so that it rests on the housing.
- 4. Remove six self-tapping screws from the frame cover underneath the snow thrower.
- Roll the front and rear auger belts off the engine pulley. See Figure 26.

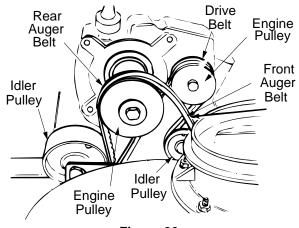


Figure 26

- 6. Unhook the idler spring from the hex bolt on the auger housing. See Figure 27.
- 7. Back out the stop bolt to allow the belts to slip between the bolt and auger pulley. See Figure 28

NOTE: It may be necessary to loosen the six hex nuts that fasten the frame to the auger housing to aid in belt removal.

- Lift the rear auger belt from the auger pulley, and slip belt between the support bracket and the auger pulley. See Figure 27. Repeat this step for front auger belt (except models 600/610E).
- 9. Replace both auger drive belts by following instructions in reverse order.

DRIVE BELT

- 1. Follow steps 1 through 4 of previous instructions.
- 2. Pull idler pulley up, and lift belt off engine pulley and friction wheel disc. SeeFigure 26
- 3. Back out the stop bolt until the support bracket rests on the auger pulley. See Figure 28.
- Slip belt between friction wheel and friction wheel disc. See Figure 28. Remove and replace belt. Reassemble following the instructions in reverse order.

NOTE: The support bracket must rest on the stop bolt after the new belt has been assembled. See Figure 28.

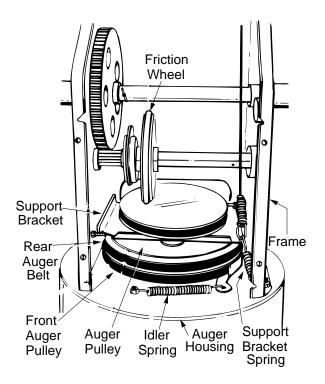


Figure 27

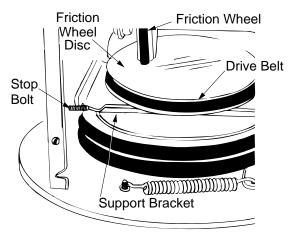


Figure 28

CHANGING FRICTION WHEEL RUBBER

The rubber on the friction wheel is subject to wear and should be checked after 25 hours of operation, and periodically thereafter. Replace the friction wheel rubber if any signs of wear or cracking are found.

- 1. Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.
- 2. Tip the snow thrower up and forward, so that it rests on the housing.
- 3. Remove six self-tapping screws from the frame cover underneath the snow thrower.
- 4. Remove the klick pins which secure the wheels, and remove the wheels from the axle.
- 5. Using a 9/16" wrench to hold the shaft, loosen, but do not completely remove, the hex nut and bell washer on left end of gear shaft. See Figure 29.

- Lightly tap the hex nut to dislodge the ball bearing from the right side of frame. Remove the hex nut and bell washer from left end of shaft.
- 7. Slide the gear shaft to the right and slide the friction wheel assembly from the shaft.
- 8. Remove the six screws from the friction wheel assembly (three from each side). Remove the friction wheel rubber from between the friction wheel plate.
- 9. Reassemble new friction wheel rubber to the friction wheel assembly, tightening the six screws in rotation and with equal force.
- Position the friction wheel assembly up onto the pin of the shift rod assembly, and slide the shaft through the assembly. Reassemble in reverse order.

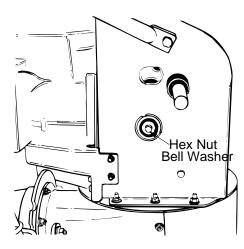


Figure 29

SECTION 11: OFF-SEASON STORAGE



WARNING: Never store engine with fuel in tank indoors or in poorly ventilated areas, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer or other gas appliance.

- If unit is to be stored over 30 days, prepare the engine for storage as instructed in the separate engine operator's manual included with your unit. carburetor.
- 2. Remove all dirt from exterior of engine and equipment.
- 3. Follow lubrication recommendations on page 14.

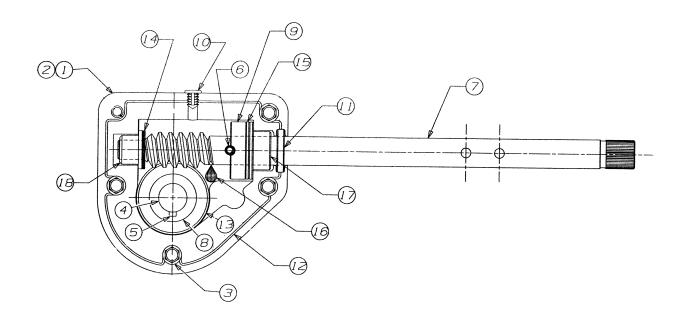
NOTE: When storing any type of power equipment in a poorly ventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.

SECTION 12: Trouble Shooting Guide

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	Fuel tank empty, or stale fuel.	Fill tank with clean, fresh gasoline. Fuel will not last over thirty
		days unless a fuel stabilizer is used.
	Blocked fuel line.	Clean fuel line.
	Choke not in ON position	Move switch to ON position
	Faulty spark plug.	Clean, adjust gap or replace.
	Key not in switch on engine.	Insert key.
	Spark plug wire	Connect spark plug wire.
	disconnected.	
	Primer button not depressed.	Refer to the engine manual packed with your unit.
	Fuel shut-off valve closed	Open fuel shut-off valve.
	(if so equipped).	
Engine runs	Unit running on CHOKE.	Move choke lever to OFF position.
erratic**	Blocked fuel line or stale fuel.	Clean fuel line; fill tank with clean fresh gasoline. Fuel will not last
		over thirty days unless a fuel stabilizer is used.
	Water or dirt in fuel system.	Drain fuel tank. Refill with fresh fuel.
	Carburetor out of adjustment.	Refer to the engine manual packed with your unit or have
		carburetor adjusted by an authorized service dealer.
Loss of power	Spark plug wire loose.	Connect and tighten spark plug wire.
	Gas cap vent hole plugged.	Remove ice and snow from cap. Be certain vent hole is clear.
	Exhaust port plugged.	Clean-see Maintenance section of engine manual.
Engine overheats	Carburetor not adjusted	Refer to the engine manual packed with your unit or have
	properly.	carburetor adjusted by an authorized service dealer.
	Incorrect fuel mixture.	Drain fuel tank. Refill with proper fuel mixture.
Excessive vibration	Loose parts or damaged	Stop engine immediately and disconnect spark plug wire. Tighten
	auger.	all bolts and nuts. Make all necessary repairs. If vibration
		continues, have unit serviced by an authorized service dealer.
Unit fails to propel	Incorrect adjustment of drive	Adjust drive cable. Refer to Adjustment section of this manual.
itself	cable.	
	Drive belt loose or damaged.	Replace drive belt. Refer to Belt Replacement in Maintenance
		section of this manual.
Unit fails to	Discharge chute clogged.	Stop engine immediately and disconnect spark plug wire. Clean
discharge snow		discharge chute and inside of auger housing.
	Foreign object lodged in	Stop engine immediately and disconnect spark plug wire.
	auger.	Remove object from auger.
	Incorrect adjustment of drive	Adjust drive cable. Refer to Adjustment section of this manual.
	cable.	
	Drive belt loose or damaged.	Replace drive belt. Refer to Belt Replacement in Maintenance
		section of this manual.

Note: For repairs beyond the minor adjustments above, contact your local authorized service dealer.

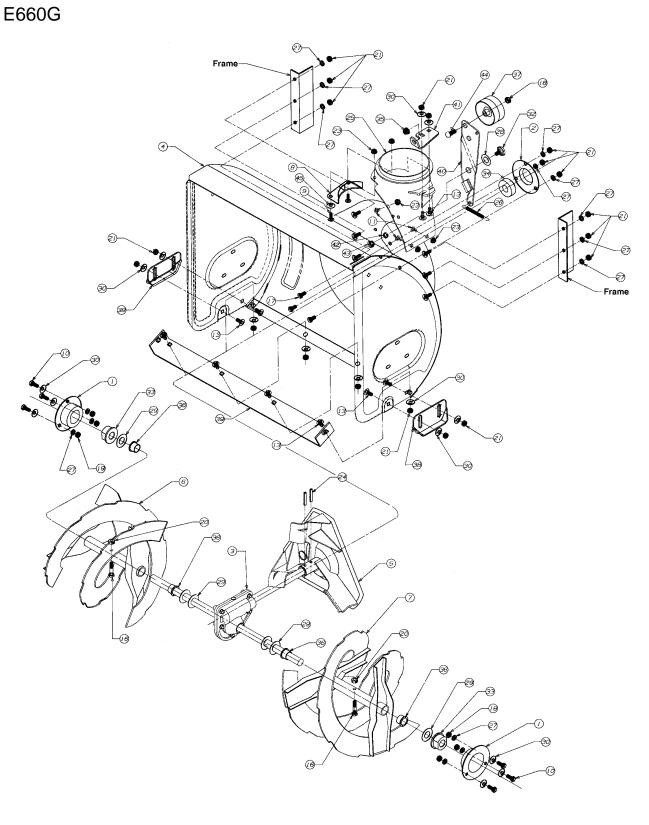
Gear Assembly (All Models)



REF.	PART			REF.	PART		
NO.	NO.	DESCRIPTION	Qty.	NO.	NO.	DESCRIPTION	Qty.
1	618-0123	Housing—L.H.	1	11	721-0327	Seal-Oil	1
2	618-0124	Housing—R.H.	1	12	721-0328	Locktite 5699	
3	710-0642	Screw	5	13	736-0351	Washer-Flat	2
4	711-0908	Spiral Axle 24"	1	14	736-0369	Washer-Flat	4
	711-0909	Spiral Axle 26"	1	15	736-0445	Washer-Flat	1
	711-0910	Spiral Axle 28"	1	16	737-0168	Grease	1.5 oz.
5	714-0161	Key	1	17	741-0662	Bearing-Flange	1
6	715-0143	Pin-Spiral	1	18	741-0663	Bearing-Flange	1
7	717-0526	Shaft-Worm	1		618-0120	Ass'y. Complete 24"	1
8	717-0528	Gear-Worm	1		618-0121	Ass'y. Complete 26"	1
9	718-0186	Collar-Thrust	1		618-0122	Ass'y. Complete 28"	1
10	721-0325	Plug	1				

Blower Housing

E600E E610E E640F



Blower Housing

E600E E610E

E640F

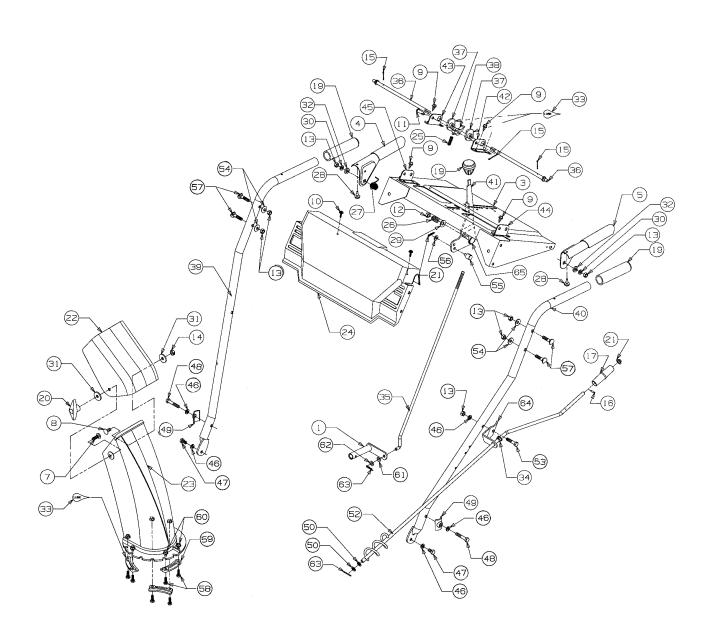
REF.	PART			REF.	PART		
NO.	NO.	DESCRIPTION	QTY.	NO.	NO.	DESCRIPTION	QTY.
1	784-5618	Housing, Bearing	2	23	712-3027	Nut, Lock, Hex, Flanged	5
2	05931	Housing, Bearing	1	24	715-0114	Spring Pin	2
3	618-0120	Gear Assembly (24")	1	25	731-1379	Adapter, Chute	1
	618-0121	Gear Assembly (26")	1	26	732-0611	Spring	1
	618-0122	Gear Assembly (28")	1	27	736-0119	Lock Washer	9
4	684-0039A	24" Housing Assembly	1	28	736-0174	Washer, Flat	1
	684-0040A	26" Housing Assembly	1	29	736-0188	Washer, Flat	
	684-0041A	28" Housing Assembly	1	30	736-0242	Washer, Bell	16
5	684-0065	Impeller Assembly	1	32	738-0281	Screw, Shoulder	1
6	605-5188	Spiral, 24" R.H.	1	33	741-0245	Bearing, Flange	2
	605-5192	Spiral, 26" R.H.	1	34	741-0309	Bearing, Ball	1
	605-5196	Spiral, 28" R.H.	1	35	741-0475	Bushing, Plastic	1
7	605-5189	Spiral, 24" L.H.	1	36	741-0493A	Bushing, Flange	4
	605-5193	Spiral, 26" L.H.	1	37	756-0178	Idler, Flat	1
	605-5197	Spiral, 28" L.H.	1	38	784-5580	Shoe, Slide	2
8	705-5226	Reinforcement, Chute	1	39	784-5581A	24" Shave Plate	1
9	710-0134	Bolt, Carriage	2		784-5579A	26" Shave Plate	1
10	710-0604	Screw, Hex	6		784-5582A	28" Shave Plate	1
11	710-0134	Screw, Carriage	3	40	784-5632	Arm, Auger Idler	1
13	710-0451	Screw, Carriage	10	41	784-5647	Bracket, Chute Crank	1
16	710-0890A	Bolt, Shear	4	42	736-0169	Lock Washer	1
18	712-0116	Hex Lock Nut	1	43	712-0798	Hex Nut	1
20	712-0429	Nut, Hex Lock	2	44	710-0459	Screw, Hex Cap	1
21	712-0324	Nut, Hex	19	45	736-0463	Flat Washer	5

Handle Assembly

E600E

E610E

E640F



Handle Assembly

E600E

E610E

E640F

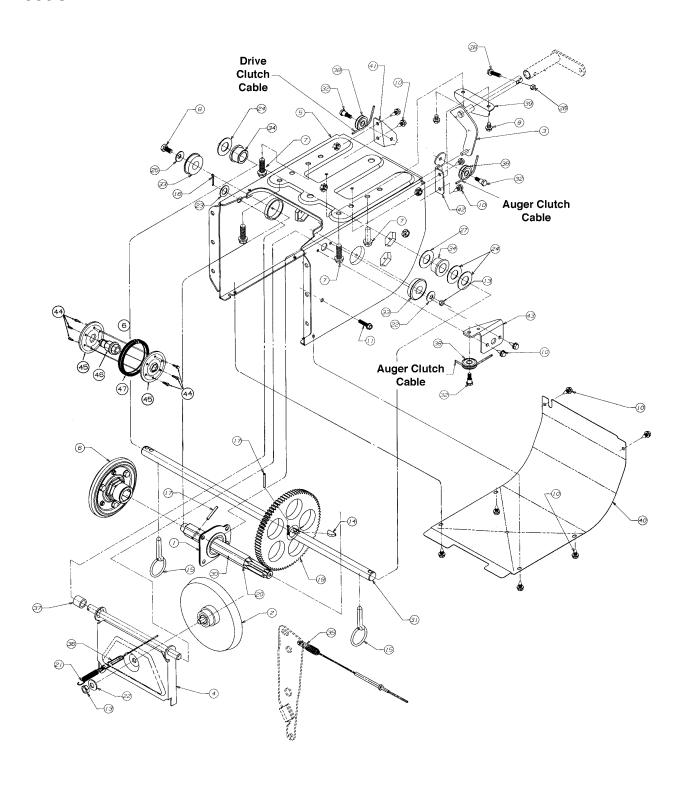
REF.	PART			REF.	PART		
NO.	NO.	DESCRIPTION	QTY.	NO.	NO.	DESCRIPTION	QTY.
1	684-0008A	Arm-Shift	1	34	741-0475	Bushing-Plastic	1
3	684-0033A	Panel-Handle	1	35	747-0798A	Rod-Shift	1
4	684-0036	Handle-Engagement—R.H.	1	36	747-0877	Rod-Cam	2
5	684-0037	Handle-Engagement—L.H.	1	37	748-0362	Cam-Handle Lock	2
7	710-0276	Screw	1	38	748-0363	Pawl-Handle Lock	1
8	710-0451	Bolt-Carriage	1	39	749-0910A	Handle—R.H.	1
9	710-0599	Screw	4	40	749-0911A	Handle—L.H.	1
10	710-1003	Screw	2	41	784-5619A	Handle-Shift	1
11	711-0653	Pin-Clevis	1	42	784-5679	Bracket-Handle Support—L.H.	1
12	712-0116	Nut-Hex	1	43	784-5680	Bracket-Handle Support—R.H.	1
13	712-3010	Nut-Hex	5	44	784-5681	Bracket-Handle Support—L.H.	1
14	712-0429	Nut-Lock	1	45	784-5682	Bracket-Handle Support—R.H.	1
15	714-0507	Pin-Cotter	3	46	736-0119	Washer-Lock	7
16	715-0138	Pin-Roll	1	47	710-3008	Screw	2
17	720-0201A	Knob	1	48	710-3180	Screw	2
18	720-0232	Knob-Shift	1	49	784-5599	Tab-Handle	2
19	720-0274	Grip	2	50	736-0185	Washer-Flat	2
20	720-0284	Knob	1	52	684-0022	Crank-Chute	1
21	726-0102	Cap-Push	1	53	710-0442	Screw	1
22	731-0921	Chute-Upper	1	54	736-0242	Washer-Bell	4
23	731-1300A	Chute-Lower	1	55	711-0677	Ferrule	1
24	731-1391	Panel-Handle	1	56	736-0275	Washer-Flat	2
25	732-0145	Spring	1	57	710-0262	Bolt-Carriage	4
26	732-0193	Spring	1	58	710-3015	Screw	6
27	732-0746	Spring	1	59	731-0851A	Keeper-Chute Flange	3
28	735-0199A	Bumper	2	60	712-3027	Nut-Lock	6
29	736-0105	Washer-Bell	1	62	736-0264	Washer-Flat	2
30	736-0119	Washer-Lock	2	63	714-0104	Pin-Cotter	2
31	736-0159	Washer	2	64	784-5678	Bracket	1
32	736-0509	Washer	2	65	710-0459	Screw	1
33	737-0133	Lubricant					

Frame Assembly

E600E

E610E

E640F



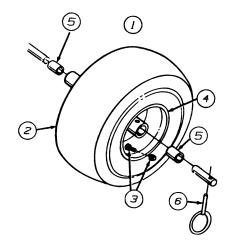
Frame Assembly

E600E E610E E640F

E660G

REF.	PART			REF.	PART		
NO.	NO.	DESCRIPTION	QTY.	NO.	NO.	DESCRIPTION	QTY.
1	618-0063	Bearing Ass'y.	1	25	736-0242	Washer, Bell	2
2	656-0012A	Ass'y., Friction Wheel Disc	1	26	712-0324	Nut, Top lock	1
3	684-0013B	Rod Shift, Wheel Drive	1	27	736-0351	Washer, Flat	1
4	684-0021	Brkt. Ass'y. Friction Wheel	1	28	710-0809	Hex Screw	1
5	684-0030	Frame Ass'y., 600 S/T	1	31	738-0869	Axle†	1
6	684-0042B	Wheel Friction	1		738-0830	Axle ††	1
7	710-0654A	Hex Self-Tap Screw	4	32	738-0924	Screw, Shoulder	3
8	710-0538	Hex Hd. Cap Screw	2	33	741-0563	Bearing, Ball	2
9	710-0599	Scr., Hex Wash.	2	34	741-0598	Flange Bearing	2
10	710-0896	Hex Self-Tap Scr.	12	35	746-0897	Cable, Auger	1
11	710-0788	Screw, Hex	1	36	746-0898	Cable, Clutch	1
13	712-0711	Nut, Hex	2	37	748-0190	Spacer	1
14	714-0126	Key	1	38	756-0625	Roller, Cable	3
15	714-0143	Pin, Klick	2	39	784-5590	Frame, Shift Bracket	1
16	714-0474	Pin, Cotter	1	40	784-5638	Cover, Frame	1
17	715-0249	Pin, Roll	2	41	784-5688	Bracket, Drive Cable Roller	1
19	717-1445	Gear	1	42	784-5687	Brkt., Auger Clutch Cable Guide	1
20	717-1444	Shaft, Hex	1	43	784-5689A	Brkt., Front Support Guide	1
21	732-0264	Extension Spring	1	44	710-0599	Hex Wash Hd. TT-Tap Scr.	
22	736-0105	Washer, Bell	2			1/4-20 x .5" Lg.	6
23	736-0160	Flat Washer	1	45	784-5617	Friction Plate	1
24	736-0188	Washer, Flat	3	46	718-0301A	Friction Wheel Hub	1
				47	735-0243	Friction Wheel Rubber	1

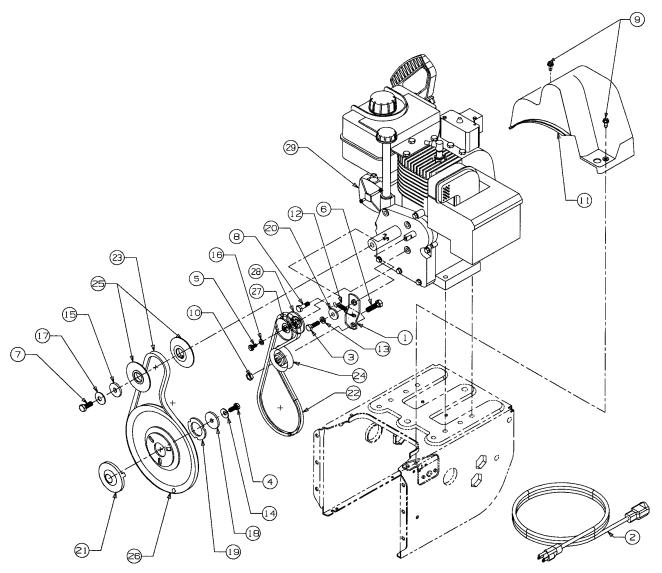
† Used with 13" Wheels †† Used with 16" Wheels



WHEEL ASSEMBLIES										
MODEL NO.	REF. NO. 5	REF. NO. 6								
		WHEEL ASS'Y	TIRE	AIR	RIM	SLEEVE	KLICK			
		COMPLETE	ONLY	VALVE	ONLY	BEARING (2)	PIN			
31AE600E000	13 x 5	734-1714	734-1527	734-0255	734-1713	741-0401	714-0143			
31AE610E000	13 x 5	734-1714	734-1527	734-0255	734-1713	741-0401	714-0143			
31AE640F000	16 x 4.8	734-1709	734-1530	734-0255	734-1708	741-0401	714-0143			
31AE660G000	16 x 6.5	734-1712	734-1525	734-0255	734-1711	741-0401	714-0143			

Engine and V-Belts

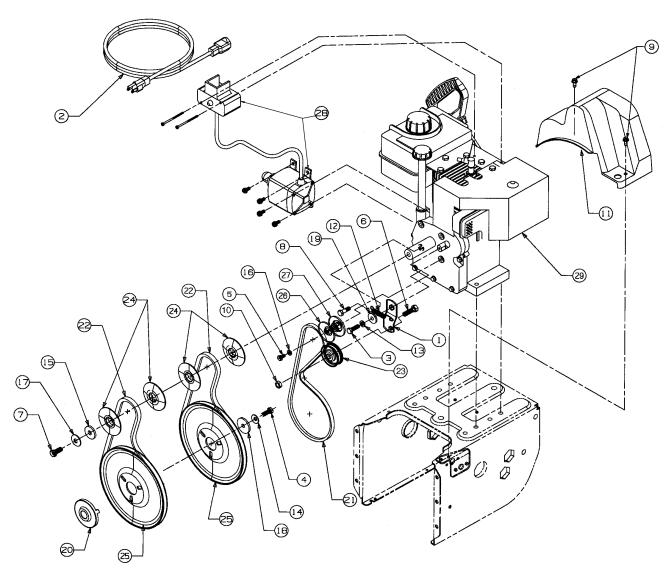
E600E E610E



REF.	PART			REF.	PART		
NO.	NO.	DESCRIPTION	QTY.	NO.	NO.	DESCRIPTION	QTY.
1	05896A	Bracket-Idler	1	16	736-0270	Washer-Lock	1
2	629-0071	Cord-Extension 110V	1	17	736-0331	Washer-Lock	1
3	710-0627	Screw-Hex	1	18	736-0505	Washer-Flat	1
4	710-1245	Screw-Hex	1	19	736-0507	Washer	1
5	710-0230	Screw-Hex	1	20	748-0234	Spacer	1
6	710-0342	Screw-Hex	1	21	748-0360	Adapter-Pulley	1
7	710-0696	Screw-Hex	1	22	754-0343	V-Belt	1
8	710-0627	Screw-Hex	1	23	754-0430	V-Belt	1
9	710-0896	Screw-Hex	2	24	756-0313	Idler-Flat	1
10	712-0181	Nut-Hex	1	25	756-0569	Pulley-Half	2
11	731-1324	Cover-Belt	1	26	756-0967	Pulley	1
12	732-0339	Spring	1	27	756-0984	Pulley-Half	1
13	736-0119	Washer-Lock	1	28	756-0985	Pulley-Half	1
14	736-0242	Washer-Bell	1	29	390-986	Electric Start Kit	1
15	736-0247	Washer-Flat	1				

Engine and V-Belts

E640F E660G



REF.	PART		QTY.	REF.	PART		QTY.
NO.	NO.	DESCRIPTION		NO.	NO.	DESCRIPTION	
1	05896A	Bracket	1	16	736-0270	Washer—Lock	1
2	629-0071	Cord, Extension	1	17	736-0331	Washer—Bell	1
3	710-0627	Screw	1	18	736-0505	Washer—Flat	1
4	710-1245	Screw	1	19	748-0234	Shoulder Spacer	1
5	710-0230	Screw	1	20	748-0360	Pulley, Adapter	1
6	710-0342	Screw	1	21	754-0346	V-Belt	1
7	710-0696	Screw	1	22	754-0430	V-Belt Matched	2
8	710-0627	Screw	1	23	756-0313	Idler, Flat	1
9	710-0896	Screw	2	24	756-0569	Pulley, Half	4
10	712-0181	Nut, Hex	1	25	756-0967	Pulley—Auger	2
11	731-1324	Belt Cover	1	26	756-0986	Pulley Half	1
12	732-0710	Spring	1	27	756-0987	Pulley Half	1
13	736-0119	Washer—Flat	1	28	390-987	Starter	1
14	736-0242	Washer—Bell	1	29	_	Engine	1
15	736-0247	Washer—Flat	1				

MANUFACTURER'S LIMITED WARRANTY FOR:



For TWO YEARS from the date of retail purchase within the United States of America, its possessions and territories, MTD PRODUCTS INC will, at its option, repair or replace, for the original purchaser, free of charge, any part or parts found to be defective in material or workmanship. This warranty covers units which have been operated and maintained in accordance with the operating instructions furnished with the unit, and which have not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance or alteration.

Normal wear parts or components thereof are subject to separate terms as noted below in the "No Fault Ninety Day Consumer Warranty" clause.

All normal wear part failures will be covered on this product for a period of 90 days regardless of cause. After 90 days, but within the two year period, normal wear parts failures will be covered ONLY IF caused by defects in material or workmanship of OTHER component parts. Normal wear parts are defined as batteries*, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates and tires.

How to obtain service: Warranty service is available, with proof of purchase, through your local authorized service dealer. To locate the dealer in your area, please check the yellow pages or contact the Customer Service Department of MTD PRODUCTS INC, P. O. Box 368022, Cleveland, Ohio 44136-9722. Phone 1 (800) 800-7310. The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by the Customer Service Department of MTD PRODUCTS INC.

Transportation charges: Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser.

Units exported out of the United States: MTD PRODUCTS INC does not extend any warranty

for products sold or exported outside of the United States of America, its possessions and territories, except those sold through MTD PRODUCTS INC's authorized channels of export distribution.

Other Warranties:

- The engine or component parts thereof carry separate warranties from their manufacturers. Please refer to the applicable manufacturer's warranty on these items.
- 2. *Batteries are covered by a 90-day replacement warranty.
- Log splitter pumps, valves and cylinders or component parts thereof are covered by a one year warranty.
- All other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose, are hereby expressly disclaimed in their entirety.
- The provisions as set forth in this warranty provide the sole and exclusive remedy of MTD PRODUCTS INC's obligations arising from the sales of its products. MTD PRODUCTS INC will not be liable for incidental or consequential loss or damage.

How state law relates to this warranty: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Certain disclaimers are not allowed in some states and therefore they may not apply to you under all circumstances.

NOTE: This warranty does not cover routine maintenance items such as lubricants, filters, blade sharpening and tune-ups, or adjustments such as brake adjustments, clutch adjustments or deck adjustments. Nor does this warranty cover normal deterioration of the exterior finish due to use or exposure.