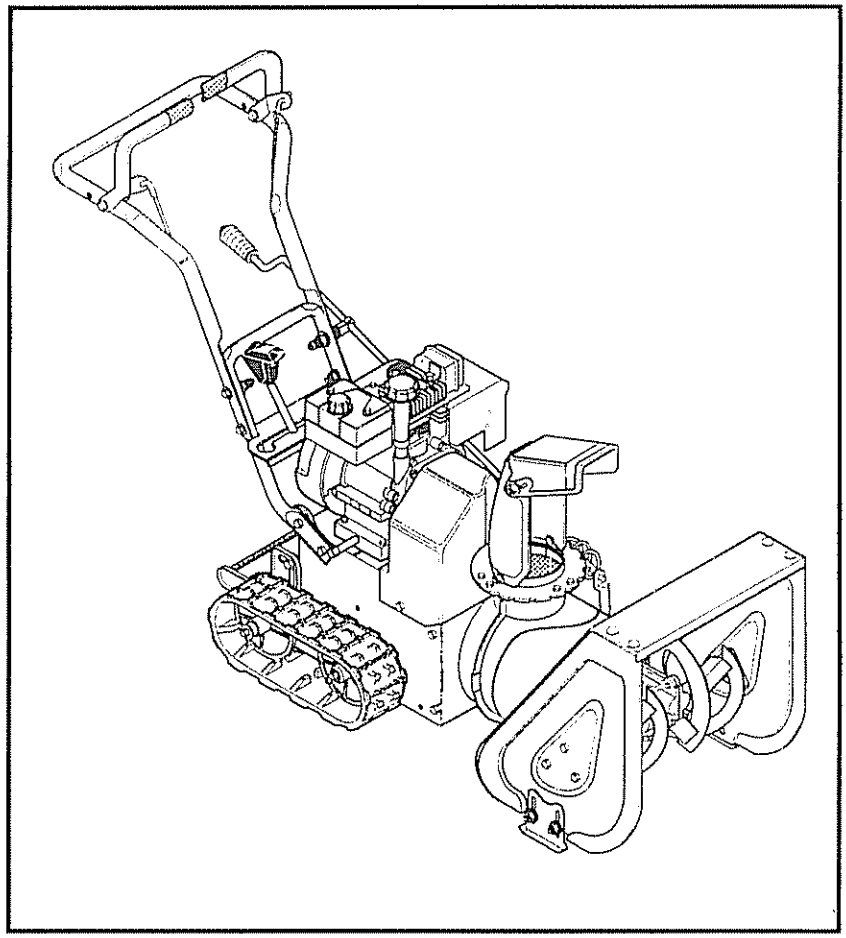
*IMPORTANT MANUAL* *DO NOT THROW AWAY*

# SEARS
# OWNER'S MANUAL

## MODEL NO. 536.885471

**Caution:**
**Read and Follow All Safety Rules and Instructions Before Operating This Equipment**



# CRAFTSMAN®

## 5 HORSEPOWER 24" DUAL STAGE FREE-WHEELING TRACK SNOW THROWER 120V. ELECTRIC START

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts

SEARS, ROEBUCK AND CO., Hoffman Estates, IL 60179 U.S.A.

# SAFETY RULES

CAUTION: 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.

TRAINING

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

PREPARATION

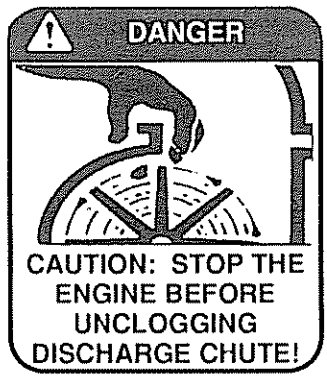
1. Thoroughly inspect the area where the snow thrower is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
2. Disengage all clutches and shift into neutral before starting the engine (motor).
3. Do not operate the snow thrower without wearing adequate winter outer garments.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

OPERATION

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, disconnect the cord on electric motors, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
4. If the snow thrower should start to vibrate abnormally, stop the (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop the engine (motor) whenever you leave the operating position, before unclogging the auger/impeller housing or discharge guide, and when making any repairs, adjustments, or inspections.
6. When cleaning, repairing, or inspecting, make certain the auger/impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
7. Take all possible precautions when leaving the snow thrower unattended. Disengage the auger/impeller, shift to neutral, stop engine, and remove key.

# SAFETY RULES

8. Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).
9. Do not clear snow across the face of slopes. Exercise caution when changing direction on slopes. Do not attempt to clear steep slopes.
10. Never operate the snow thrower without proper guards, plates or other safety protective devices in place.
11. Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-offs, and the like without proper adjustment of the snow discharge angle. Keep children and pets away.
12. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
13. Never operate the snow thrower at high transport speeds on slippery surfaces. Look behind and use care when backing.
14. Never direct discharge at bystanders or allow anyone in front of the snow thrower.
15. Disengage power to the auger/impeller when snow thrower is transported or not in use.
16. Use only attachments and accessories approved by the manufacturer of the snow thrower (such as tire chains, electric start kits, etc.).
17. Never operate the snow thrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.


MAINTENANCE AND STORAGE

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

**WARNING**

This snow thrower is for use on sidewalks, driveways, and other ground level surfaces.

CAUTION should be exercised while using on steep sloping surfaces. DO NOT USE SNOW THROWER ON SURFACES ABOVE GROUND LEVEL such as roofs of residences, garages, porches or other such structures or buildings.

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

**CONGRATULATIONS** on your purchase of a Sears Craftsman Snow Thrower. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your snow thrower properly. Always observe the "SAFETY RULES."

MODEL NUMBER 536.885471

SERIAL NUMBER_____

DATE OF PURCHASE_____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE REAR OF THE SNOW THROWER HOUSING.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **HORSE POWER:** | 5 hp |
| **DISPLACEMENT:** | 10.49 cu. in. |
| **GASOLINE CAPACITY:** | 2 quart Unleaded |
| **OIL (21 oz. Capacity):** | 5W30 |
| **SPARK PLUG : (GAP .030 in.)** | Champion RJ19LM |
| **VALVE CLEARANCE:** | Intake: .010 In. Exhaust: .010 In. |

## MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears Store for details.

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your snow thrower.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual

## TWO YEAR LIMITED WARRANTY ON CRAFTSMAN SNOW THROWER

For two years from the date of purchase, when this Craftsman Snow Thrower is maintained, lubricated and tuned-up according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If this Craftsman Snow Thrower is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty does not cover the following:

- Expendable items which become worn during normal use, such as spark plugs, drive belts and shear pins.
- Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN SNOW THROWER TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

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

SEARS, ROEBUCK AND CO. Department D/817WA, Hoffman Estates, IL 60179

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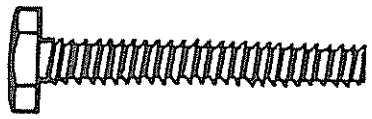
# CONTENTS OF HARDWARE PACK

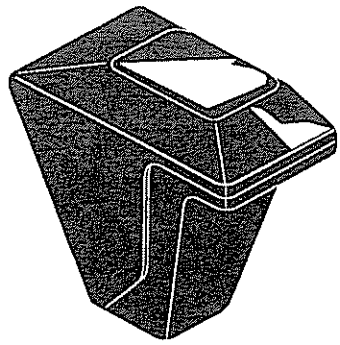
## CONTENTS OF PARTS BAG



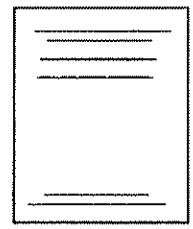
*2 - Spare Shear Bolts
(1/4-20 x 1-3/4 In.)

*2 - Spare Spacers

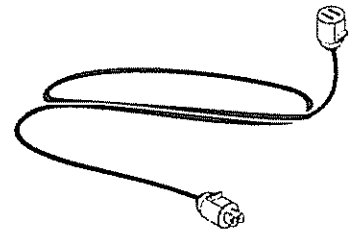
*2 - Spare 1/4-20 Hex Nuts



1 - Knob with Threads



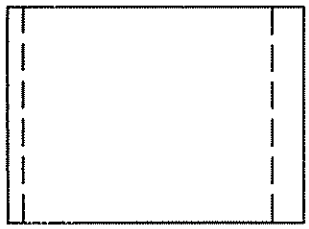
1 - Owner's manual



1 - Starter Motor Cord

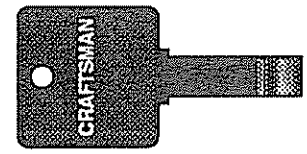
*Non-Assembly Parts

## Parts packed separately in carton (not shown full size)

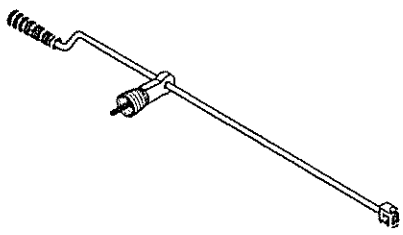


1 - Parts Bag

1 - container 5W30 oil




2 - Ignition Keys (Attached to engine in plastic bag)



1 - Crank Assembly

## THIS SNOW THROWER HAS A TRACK DRIVE SYSTEM EQUIPPED TO GIVE YOU FREE-WHEELING CAPABILITY

If your snow thrower must be moved without the aid of the engine, it will be easier to pull the snow thrower backward by the handles, rather than pushing. For details on how to use the free-wheeling capability, see the Track Drive/Free-Wheel Feature paragraph in the Operation section of this manual

On start up, the track drive system may be tight but will loosen up as the snow thrower is used. After first use, check the track for tension and adjust if necessary. See the Track Adjustment paragraph in the Service and Adjustments section of this manual. Check track adjustment and fasteners regularly

# 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 - Pliers (to spread cotter pin)
1 - Screwdriver
1 - Measuring tape or ruler

Figure 1 shows the snow thrower in the shipping position

Figure 2 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.

## TO REMOVE SNOW THROWER FROM CARTON (See Fig. 1)

- Locate and remove container of 5W30 oil
- Locate the crank assembly and place the assembly aside.
- Remove and discard the packing material from around the snow thrower.
- Cut all four corners of the carton from top to bottom and lay the panels flat.
- Roll the snowthrower off the carton by pulling on the lower handle. **CAUTION**: DO NOT back over cables.
- Remove the packing material from the upper and lower handle assembly
- Cut ties securing the clutch control cables to the lower handle and lay cables back away from the motor frame.

**NOTE:** The drive system may be tight when you first use your snow thrower. It loosens up as you use it.

- To complete upper handle installation and install chute crank assembly, see To Install The Upper Handle and Crank Assembly paragraph on page 8.

**NOTE:** If the cables have become disconnected from the clutch levers, reinstall the cables as shown in Fig 3 and 3A.

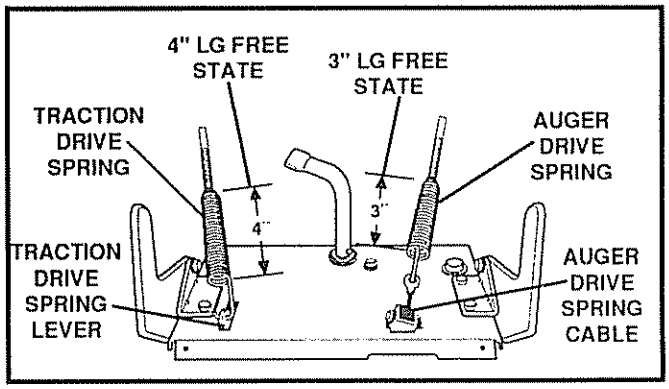



FIG. 3A

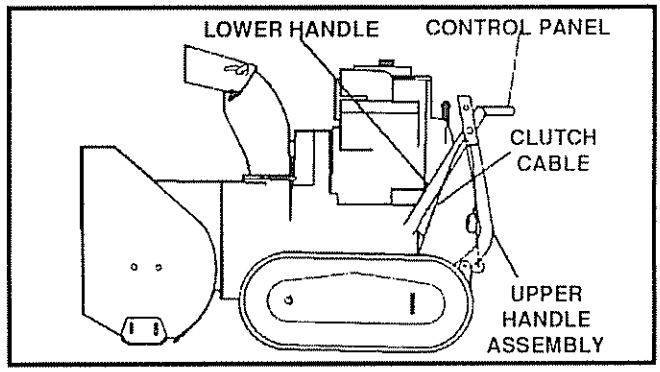



FIG. 1

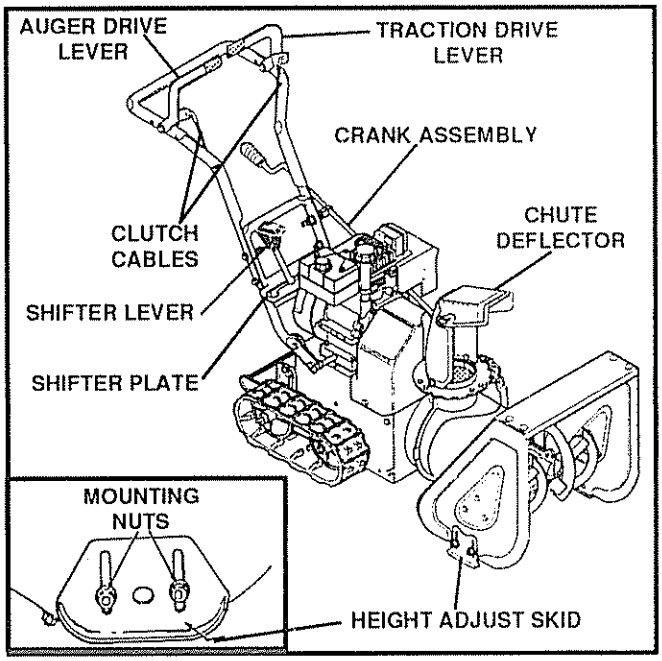



FIG. 2

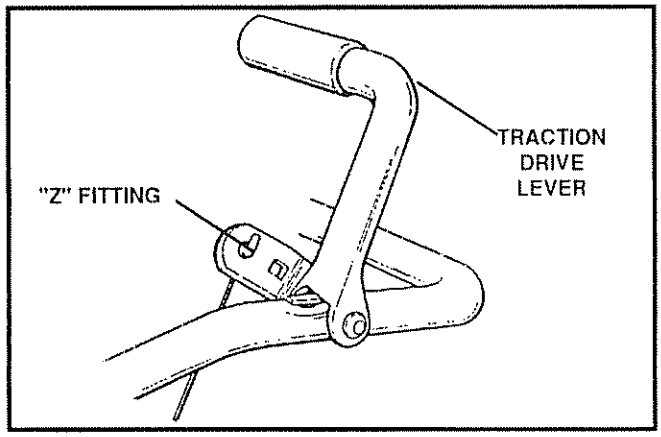



FIG. 3

**CAUTION:** IF YOU ARE REMOVING SNOW FROM ANY ROCKY OR UNEVEN SURFACE, 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.

# ASSEMBLY

## HOW TO SET UP YOUR SNOW THROWER

- Your snow thrower is equipped with height adjust skids (See Fig. 2) on the outside of the auger housing. To adjust the skid height for different conditions, see To Adjust Skid Height paragraph on page 18.

## TO INSTALL THE UPPER HANDLE AND CRANK ASSEMBLY

- Remove the screws, flatwashers, lockwashers, and hex nuts securing the shifter plate in the lower holes of the lower handle and move shift lever to 3rd gear (See Fig. 4A).
- Loosen, but do not remove, the screws, flatwashers, lockwashers, and hex nuts in the upper holes of the lower handle.
- Raise upper handle into operating position. Upper handle should be to the outside of the lower handle and shifter plate to the inside
- Replace the right hand screw, flatwasher, lockwasher, and hex nut through the handle and shifter plate. Do not tighten until all bolts are in place

**NOTE:** Unless you have the assistance of another person, it may be easier to install one side of the handle at a time.

- Remove the 3/8" nylon locknut and flatwasher from the eye bolt assembly (on the chute crank assembly removed earlier). Check to make sure the two 3/8" jam nuts are tight. The jam nuts should be 2.75 inches from the end of the eye bolt. (See Fig. 4B)
- Install eye bolt through lower hole in the left hand side of the handle and shifter plate (See Fig. 4B)
- Install the 3/8" flatwasher and the 3/8" nylon locknut loosely on the eye bolt as shown in FIG. 4B.
- Tighten nut on eye bolt installed earlier, keeping eye in line with the rod while tightening the inside securely
- Carefully remove cotter pin, clevis pin and drilled pin from yoke end of crank rod assembly.
- 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 screw, flatwasher, lockwasher and hex nut at the lower right hand hole (See Fig. 4A).

**NOTE:** Make sure the cables are not caught between the upper and lower handle.

- Tighten two upper handle bolts.

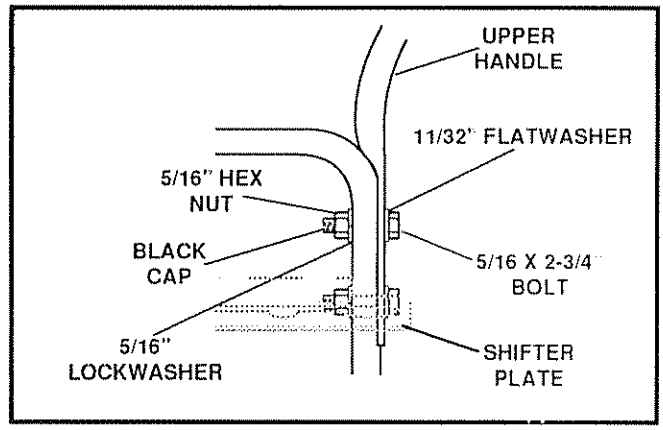



FIG. 4A

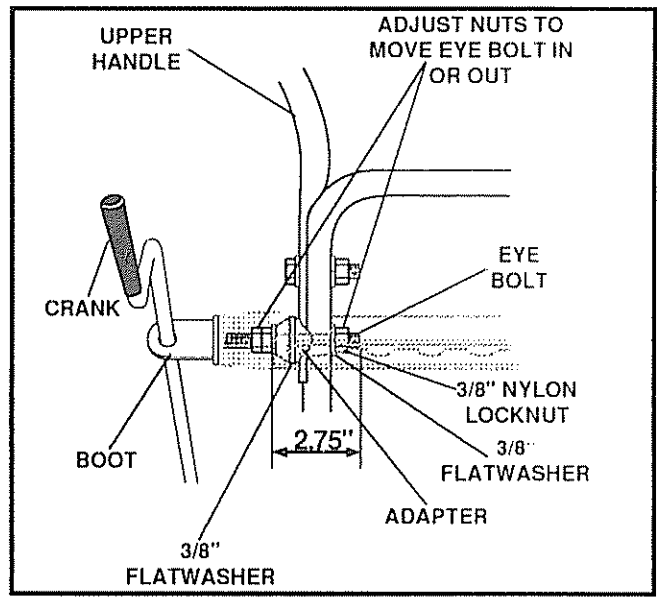



FIG. 4B

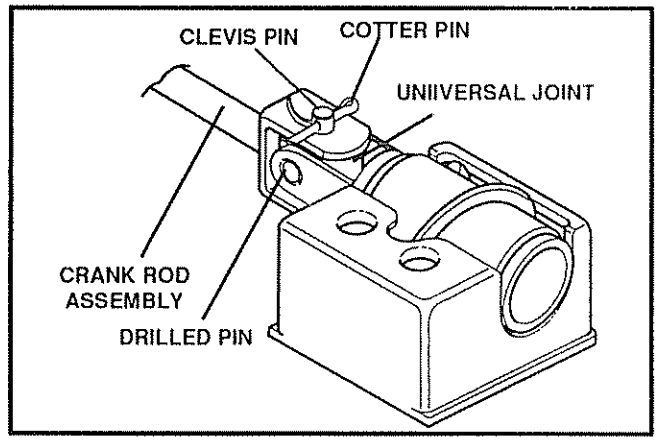



FIG. 5

- Check chute crank rod assembly for proper operation. Rotate the chute crank fully clockwise and fully counter-clockwise. Discharge chute should rotate fully to the left and fully to the right without the chute crank binding.

**NOTE:** Be sure the crank does not touch the side of the engine or the cover will be scratched

# ASSEMBLY

## TO INSTALL SHIFTER LEVER KNOB

- Thread the shifter lever knob onto the threaded end of the shifter 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 shift lever knob (See Fig. 6.)

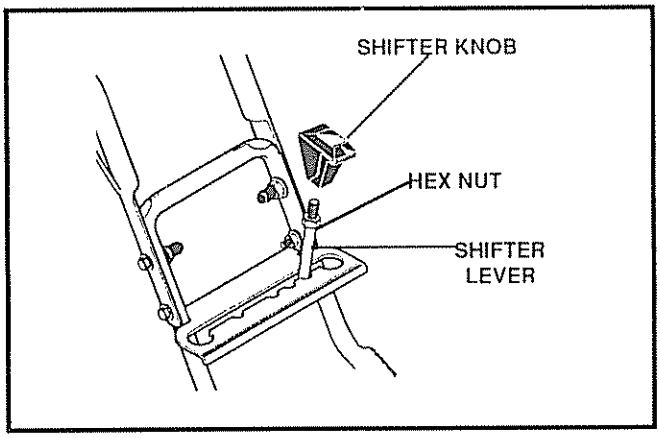



FIG. 6

## TO CHECK/ADJUST CLUTCH CONTROL CABLES

The control cables, Fig. 7, attached to the auger clutch lever and traction clutch lever may need to be adjusted before you use your snow thrower

For instructions on checking or adjusting the control cables, see To Adjust Clutch Control Cables paragraph on page 21

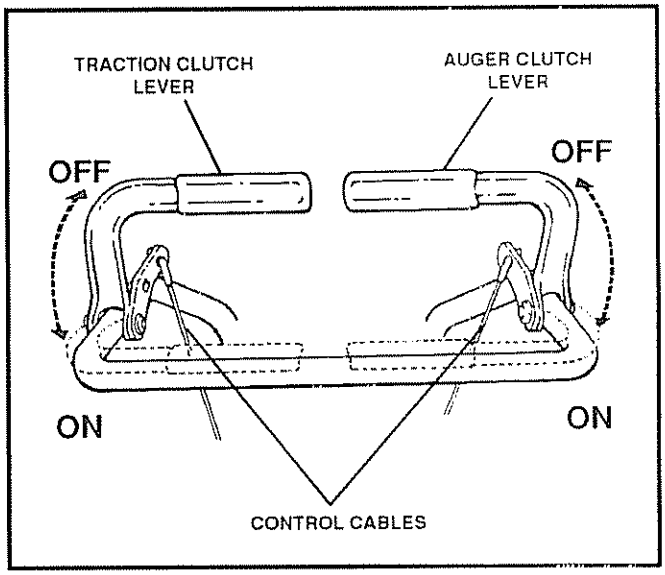



FIG. 7

### ✓ *CHECKLIST*

*BEFORE YOU OPERATE AND ENJOY YOUR NEW SNOW THROWER, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT*

*PLEASE REVIEW THE FOLLOWING CHECKLIST*

✓ All assembly instructions have been completed

✓ The discharge chute rotates freely

✓ No remaining loose parts in carton

*WHILE LEARNING HOW TO USE YOUR SNOW THROWER, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS*

✓✓ Engine oil is at proper level

✓✓ Make sure gas tank is filled properly with clean, fresh, unleaded gasoline

✓✓ Become familiar with all controls-their location and function. Operate controls before starting engine

# 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.

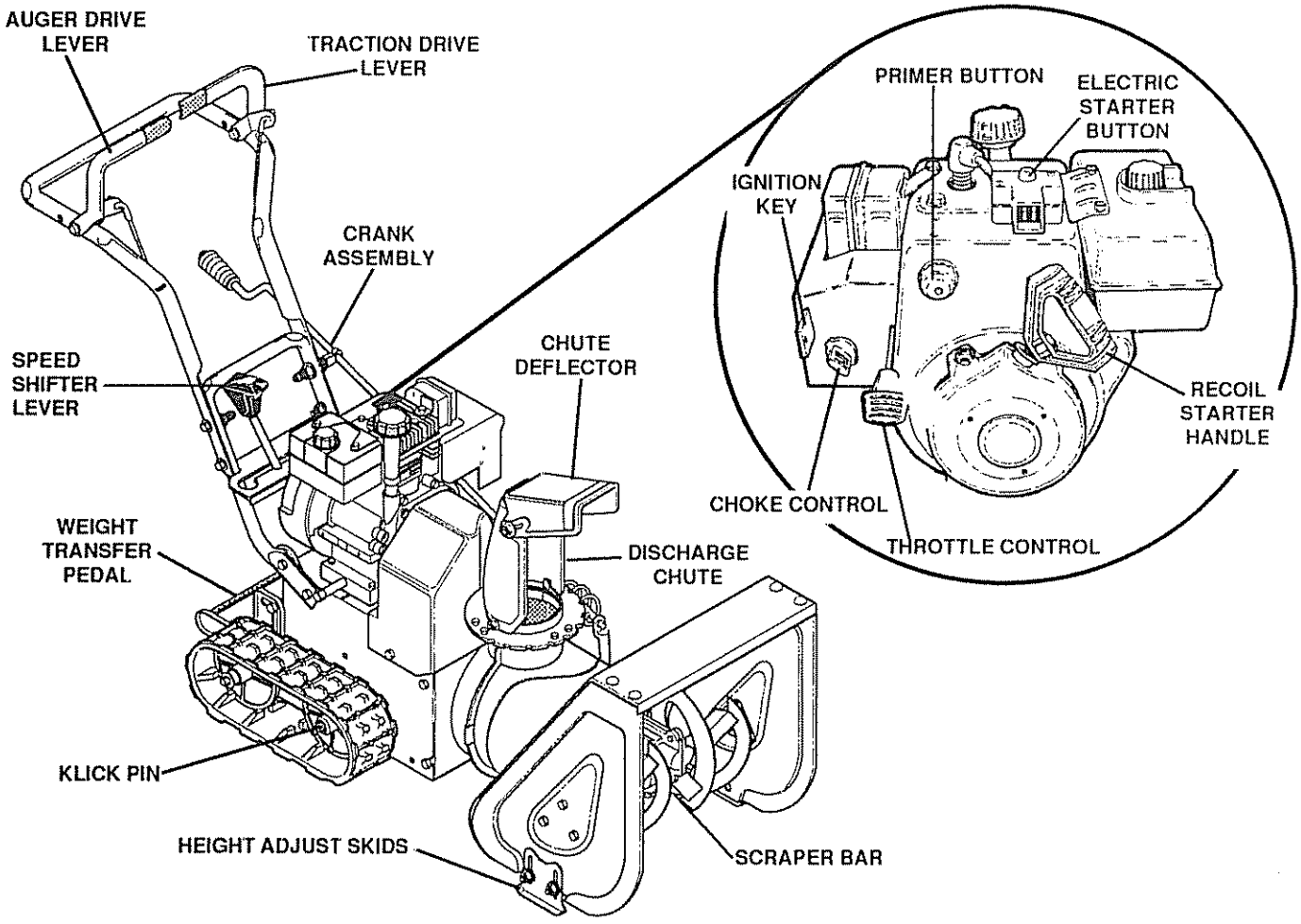



FIG. 8

SEARS FREE-WHEELING SNOW THROWERS conform to the safety standards of the American National Standards Institute B71.3-1984.

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.

KLICK PIN - Changes the track drive from normal to free-wheel drive, which allows the unit to be transported easily without the engine being started

WEIGHT TRANSFER PEDAL - When engaged (by lifting up on the upper handle) it helps keep the snow thrower in contact with the ground, and reduces ride up on ice and hard-packed snow. When released (by pushing down on weight transfer pedal with the ball of your foot), it eases steering of the snow thrower

HEIGHT ADJUST SKIDS - Adjusts the ground clearance of the auger housing.

IGNITION KEY - Must be inserted to start the engine

RECOIL STARTER HANDLE - Starts the engine manually

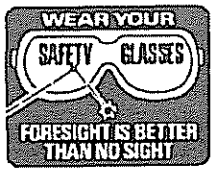
CHOKE CONTROL - Used to start a cold engine

PRIMER BUTTON - Injects fuel directly into the carburetor manifold for fast starts in cold weather

THROTTLE CONTROL - Controls the engine speed.

ELECTRIC STARTER BUTTON- Used to start the engine using the 120 V electric starter

# OPERATION




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 available at SEARS Retail Store or Service Center.

## HOW TO USE YOUR SNOW THROWER

### TO STOP YOUR SNOW THROWER

- To stop throwing snow, release the auger drive lever (See Fig. 11).
- To stop the track, release the traction drive lever (See Fig. 11).
- To stop the engine, push the throttle control lever to off and pull out the ignition key (See Fig. 10).

**NOTE: DO NOT turn key.**

### TO CONTROL SNOW DISCHARGE

- Turn the crank assembly to set the **direction** of the snow throwing.
- Loosen the wing knob on the chute deflector and move the deflector to set the **distance**. Move the deflector **UP** for more distance, **DOWN** for less distance. Then tighten the wing knob (Fig. 9).

### TO MOVE FORWARD AND BACKWARD

- To shift, release the traction drive 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 area on the control panel.

Speeds 1, 2 - Wet, Heavy, Extra Deep
Speed 3 - Moderate
Speed 4, 5 - Very Light
Speed 6 - Transport only

- Engage the traction drive lever (See Fig. 11, 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.
- To move the snow thrower backward, move the speed shifter lever into first or second reverse and engage the traction drive lever (left hand).

IMPORTANT: NEVER MOVE THE SPEED SHIFTER LEVER WHILE THE TRACTION LEVER IS DOWN.

### TO THROW SNOW

- Push down the auger drive lever (See Fig. 11, right hand).
- Release to stop throwing snow.

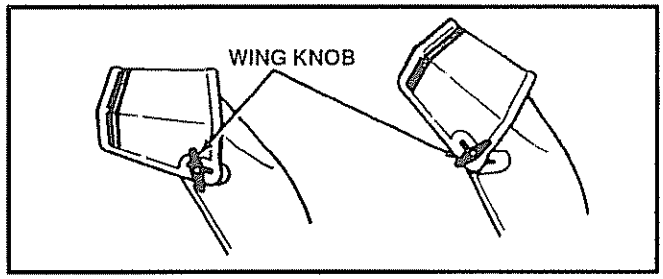



FIG. 9

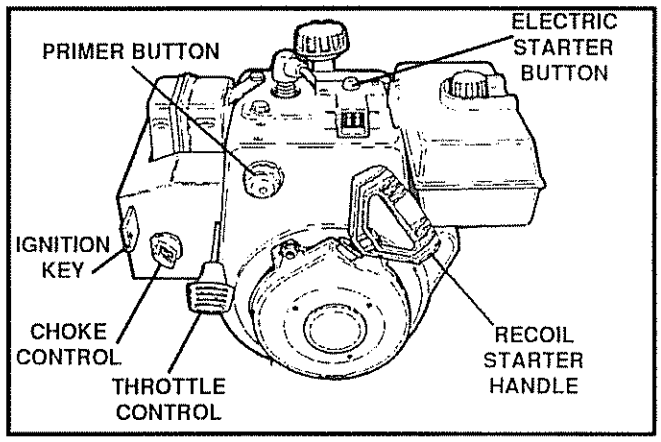



FIG. 10

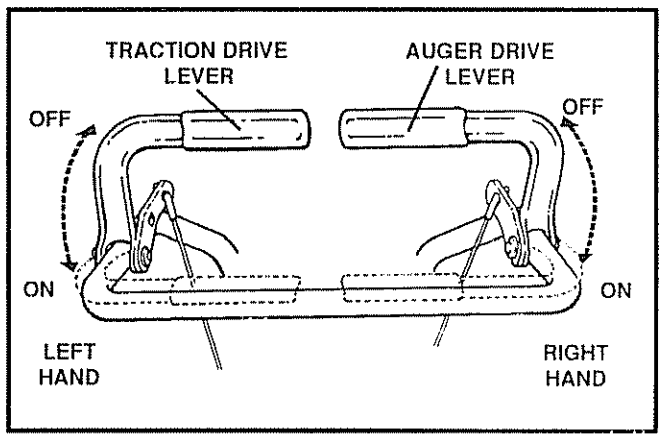



FIG. 11

**CAUTION: 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.**

# OPERATION

## TO USE WEIGHT TRANSFER SYSTEM

In hard packed or heavy snow conditions, conventional snow throwers tend to ride up and leave uneven mounds of snow behind. For these conditions, your new tracked snow thrower has a unique weight transfer system (See Fig. 12) designed to minimize ride-up.

The weight transfer system engaged shifts more weight to the auger housing. This weight transfer keeps the snow thrower in contact with the ground and reduces ride-up on ice and snow.

In lighter snow conditions or when transporting, you should release the weight transfer system for easier steering.

- To use the weight transfer system, lift up on upper handle until bracket bolts snap into place in upper slots of weight transfer pedal.
- To release, hold upper handle firmly and push down on the weight transfer pedal with the ball of your foot.

**NOTE:** The weight transfer system will not work if the auger housing height adjust skids are adjusted to the highest position.

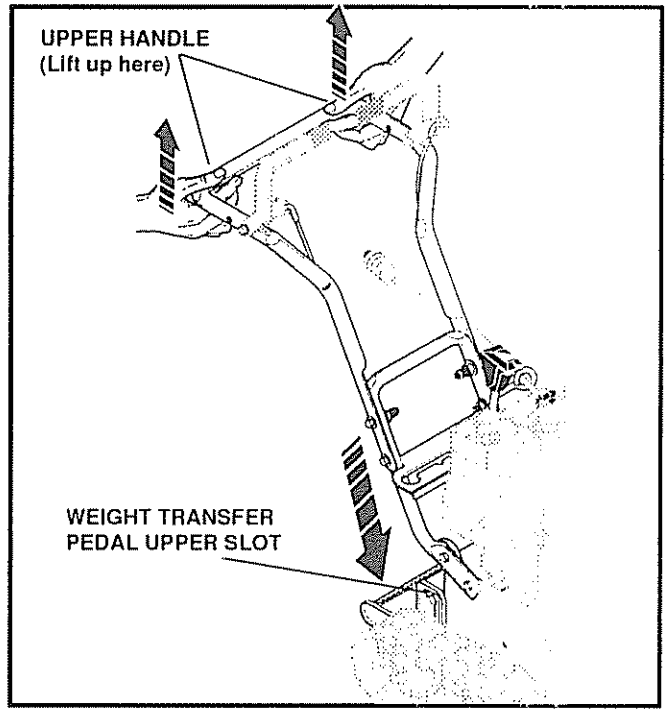



FIG.12

## TRACK DRIVE/ FREE-WHEEL FEATURE

The track system on your snow thrower has a drive/free-wheel feature (See Fig. 12A) which allows the unit to be transported easily without the engine being started.

- To use free-wheeling, lift up the loop of the klick pin in the front track wheel and pull the pin out. Install the pin through the hole in the shaft outside of the track wheel. Repeat on the opposite side of the unit.
- To use normal drive, lift the loop of the klick pin from the outside hole in the shaft. Rotate the front track wheel until the hole in the track wheel hub and the outside hole in the shaft are in-line. Place pin through the hole in the track hub. Repeat on the opposite side of the unit.

**NOTE:** If unit does not move when engine is started, check the pin locations. Pins on both sides of unit should be in the normal drive position for unit to move.

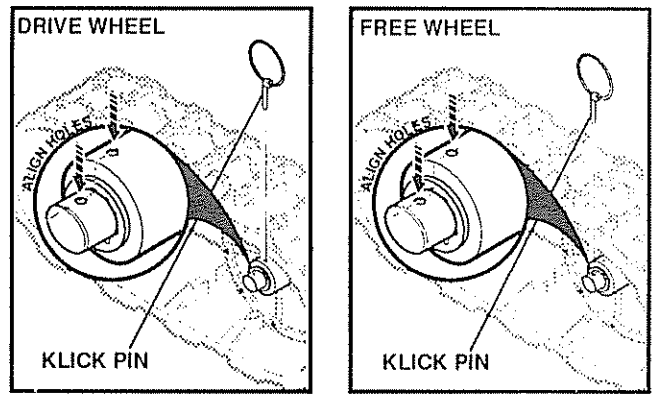



FIG.12A

# OPERATION

## BEFORE STARTING THE ENGINE

### FILL OIL:

This snow thrower was shipped with a container of 5W30 motor oil. This oil must be added to the engine before operating. Remove the oil fill cap/dipstick and fill the crank case to FULL line on dipstick (21 ounces) (See Fig. 13).
**NOTE: Engine may already contain some residual oil. Check frequently when filling the crankcase. Do not over-fill.**
Tighten the fill cap/dipstick securely each time you check the oil level.
**NOTE:** Oil must be changed after the first 2 hours of operation to extend engine life
For extreme cold operating conditions of 0°F and below, use a partial synthetic 0W30 motor oil for easier starting.

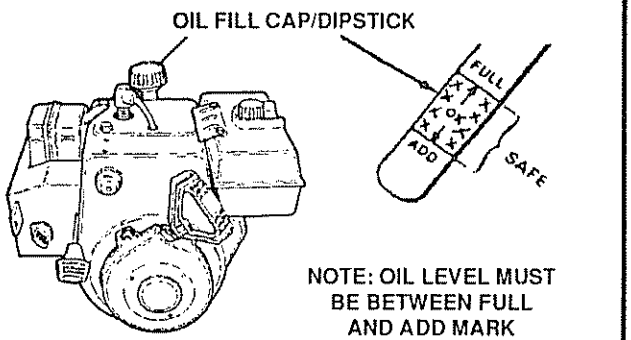



FIG.13

### 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

**NOTE:** S.A.E. 5W-30 motor oil may be used to make starting easier in areas where the temperature is 20° F or lower.

**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. 39). Use fresh fuel next season. (See Storage instructions on page 27 for additional information.)

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur

**CAUTION: 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.**

# OPERATION

## 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 (Electric Starter)

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 (Electric start) (See Fig. 14)

- Be sure the auger drive and traction drive levers are in the disengaged **RELEASED** position.
- Move the throttle control to **RUN** position.
- Remove the keys from the plastic bag. Insert one key into the ignition slot. Be sure it snaps into place. **DO NOT TURN KEY**. Keep the second key in a safe place.
- Rotate the choke knob to **FULL** choke position.
- Connect the power cord to the switch box on the engine.
- Plug the other end of the power cord into a three-hole, grounded 120 volt A.C. receptacle.
- Push the primer button while covering the vent hole as follows: (Remove finger from primer button between primes).

  Do not prime if temperature is above 50°F.

  Two times if temperature is 50°F to 15°F.

  Four times if 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 the 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 full throttle **RUN** when throwing snow.

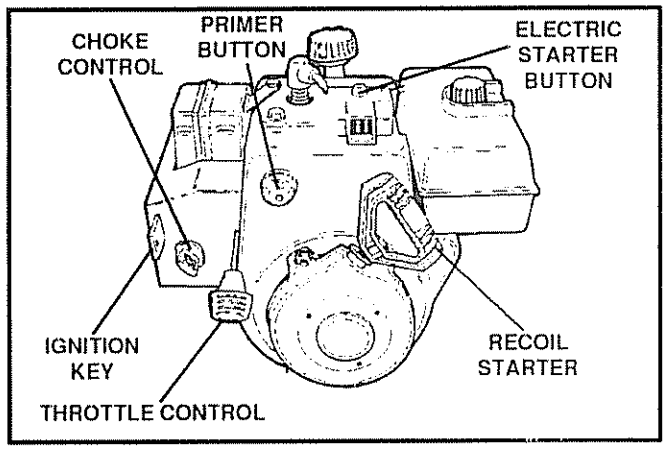



FIG.14

**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.

# OPERATION

**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.**
**WARNING: TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150° F. AVOID THESE AREAS.**
**DO NOT ALLOW CHILDREN OR YOUNG TEENAGERS TO OPERATE OR BE NEAR SNOW THROWER WHILE IT IS OPERATING.**

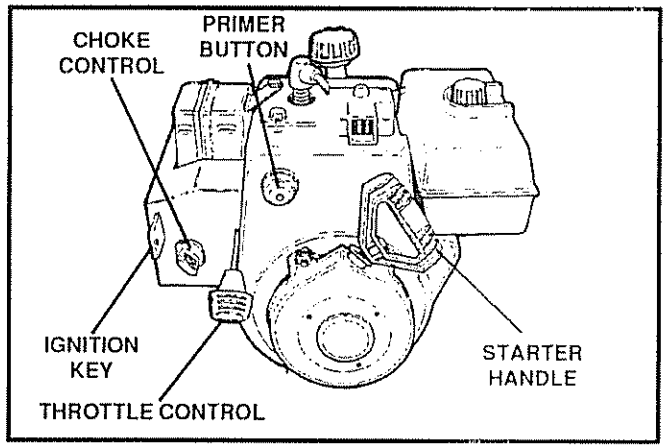



FIG. 14A

## 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

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

### COLD START (Recoil Start) (See Fig. 14A)

- Be sure the auger drive and the traction drive levers are in the disengaged RELEASED position
- Move the throttle control to RUN position
- Push the key into the ignition slot found in parts page. Be sure it snaps into place. **DO NOT TURN KEY.** Place extra key in a safe place
- 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. Release finger between primes. Additional priming may be neces sary for the first start if the temperature is below 15° F. Do not prime if tem-perature 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:** Before using the snow thrower, 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 until it starts

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

# OPERATION

## 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 track 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 throwing is accomplished when the snow is removed immediately after it falls.
- For complete snow removal, slightly overlap each path previously taken. Use more overlap in deep snow to prevent overloading.
- 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 on page 20). Stones and gravel must not be picked up and thrown by the machine.
- If the front of the snow thrower has a tendency to raise, reduce the ground speed and engage the weight transfer system.
- After the snow throwing 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.

**CAUTION: DO NOT ATTEMPT TO REMOVE ANY ITEM THAT MAY BECOME LODGED IN AUGER WITHOUT TAKING THE FOLLOWING PRECAUTIONS:**

- **RELEASE AUGER DRIVE AND TRACTION DRIVE LEVERS.**
- **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.**

# CUSTOMER RESPONSIBILITIES

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

## 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 FIRST USE

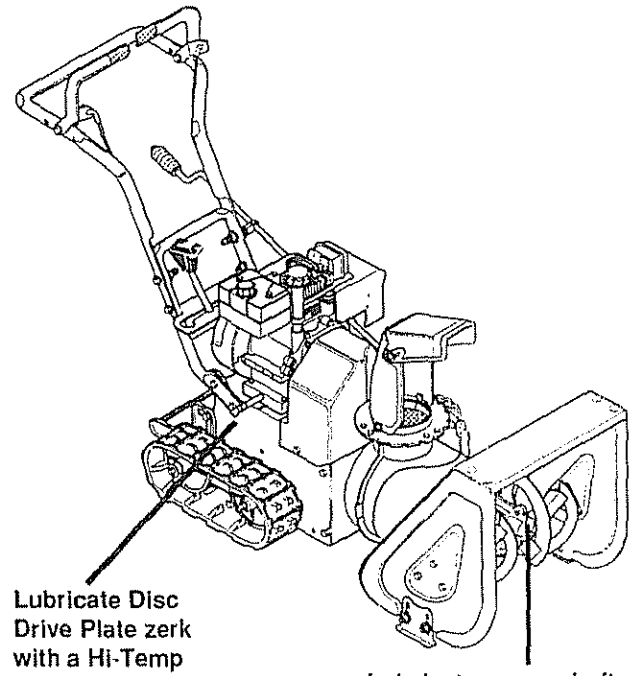
- Check the tracks for tension and adjust if necessary (See To Adjust Track paragraph on page 25)
- Check the track adjustment and fasteners regularly
- Be sure that all fasteners are tight

### AS REQUIRED

The following adjustments should be performed more than once each season

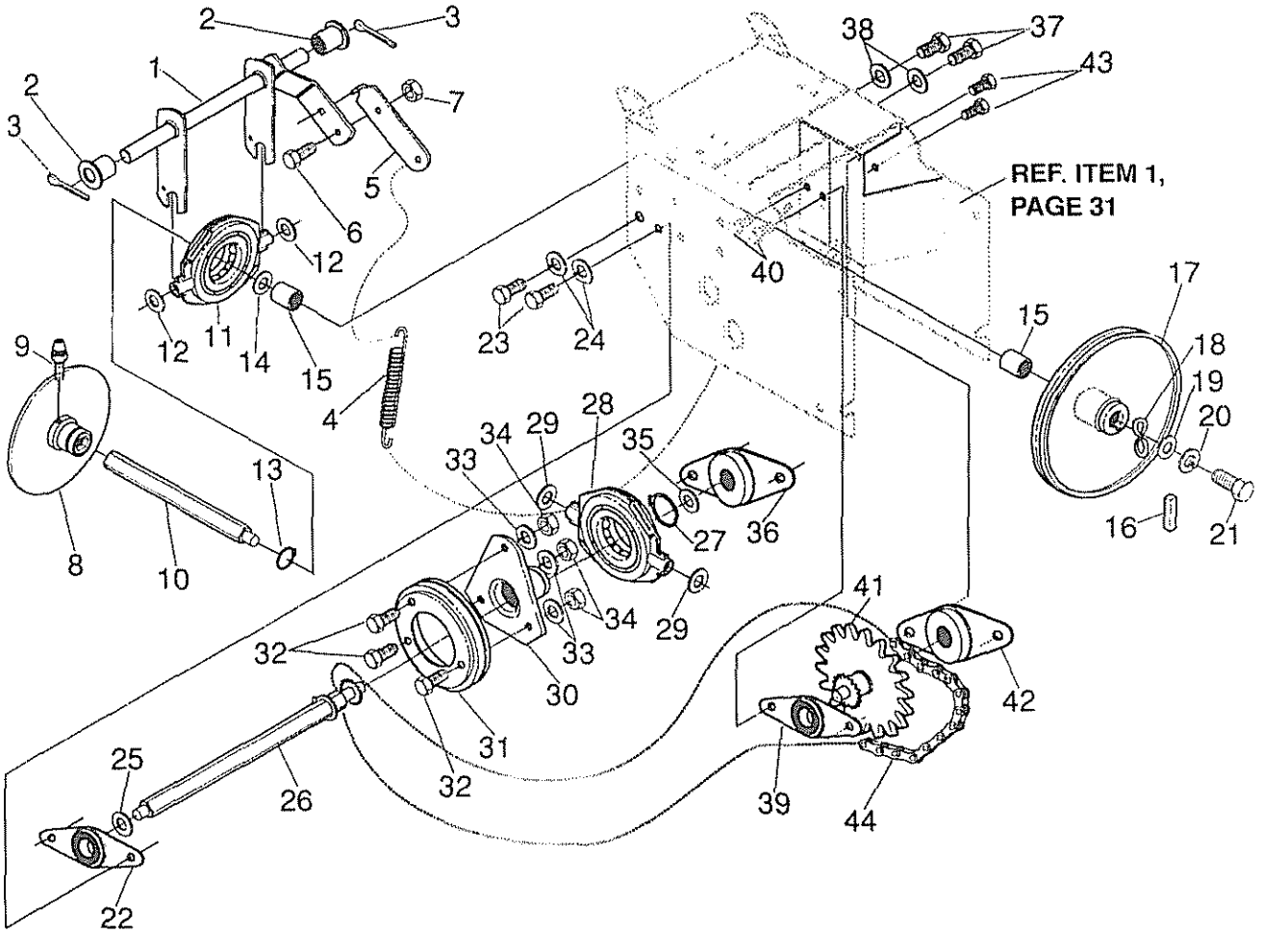
- Auger and Track Drive Belts should be adjusted after the first 2 hours of use and again after 25 hours and at the beginning of each season. See To Adjust Belts paragraph on page 21.
- All screws and nuts should be checked often to make sure they are tight, preferably after each use

## LUBRICATION CHART



# AFTSMAN 24" SNOW THROWER 536.885471

## IIVE COMPONENTS REPAIR PARTS

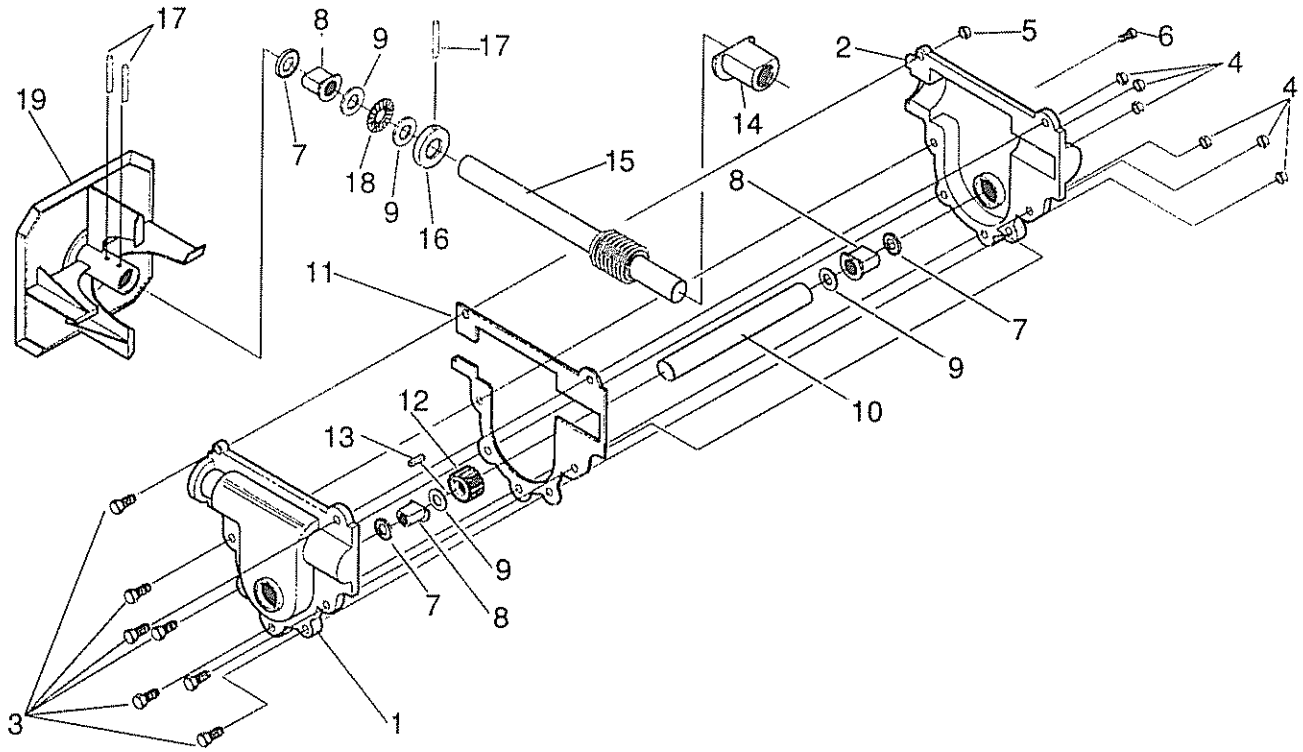



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 579941 | Lever Assembly, Traction Clutch |
| 2 | 313853 | Bearing, Flange |
| 3 | 137185 | Pin, Cotter |
| 4 | 313919 | Spring, Return |
| 5 | 579937 | Lever, Spring Traction Clutch |
| 6 | 11871 | Screw, HHC, 1/4-20 x 5/8 In. |
| 7 | 1502 | Nut, Hex, 1/4-20 Thd. |
| 8 | 583164 | Disc, Friction Wheel, 7" |
| 9 | 583206 | Zerk Grease |
| 10 | 583155 | Shaft, Hex Traction |
| 11 | 85501 | Bearing Assembly, Trunion |
| 12 | 73812 | Flatwasher, .50 x 1.00 x .06 |
| 13 | 73811 | Ring, Retainer |
| 14 | 580969 | Flatwasher, .680 x 1.12 x .06 |
| 15 | 49562 | Bearing, Roller |
| 16 | 580970 | Key, Square |
| 17 | 580961 | Pulley, Traction Drive |
| 18 | 580965 | Wave Washer |
| 19 | 1084 | Flatwasher, .281x1.00x.063 |
| 20 | 120380 | Lockwasher, Split .26 x .50 x .06 |
| 21 | 180020 | Screw, HHC, 1/4-20 x 5/8 In. |
| 22 | 334163 | Bearing & Retainer Assembly |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 23 | 35497 | Screw, WaTap, 5/16-18 x 1/2 In. |
| 24 | 120638 | Lockwasher, Split, .31 x .58 x .08 |
| 25 | 579858 | Washer, Special |
| 26 | 331112 | Shaft Hex & Sprocket Assembly |
| 27 | 73811 | Retaining Ring |
| 28 | 85501 | Bearing, Trunion |
| 29 | 73812 | Flatwasher, .505x1.00x.06 |
| 30 | 581773 | Hub, Friction Wheel |
| 31 | 313883 | Wheel, Friction Disc |
| 32 | 11871 | Screw, 1/4-20x.63 |
| 33 | 120380 | Washer, Regsptlk .263x.49x.07 |
| 34 | 120375 | Nut, 1/4-20 Reghex |
| 35 | 579858 | Washer, Sp .502x.75x.0605 |
| 36 | 334163 | Bearing & Retainer Assy. |
| 37 | 35497 | Screw, WaTap, 5/16-18x1.2 In. |
| 38 | 120638 | Lockwasher, Split .31x.58x.08 |
| 39 | 334163 | Bearing & Retainer Assy. |
| 40 | 35497 | Screw, WaTap, 51/6-18x1/2 In. |
| 41 | 579893 | Sprocket, 8 Tooth, Assembly |
| 42 | 334163 | Bearing & Retainer Assy. |
| 43 | 35497 | Screw, WaTap 5/16-18x1/2 In. |
| 44 | 579867 | Chain, Roller #42 |

# CRAFTSMAN 24" SNOW THROWER 536.885471

## GEAR BOX REPAIR PARTS

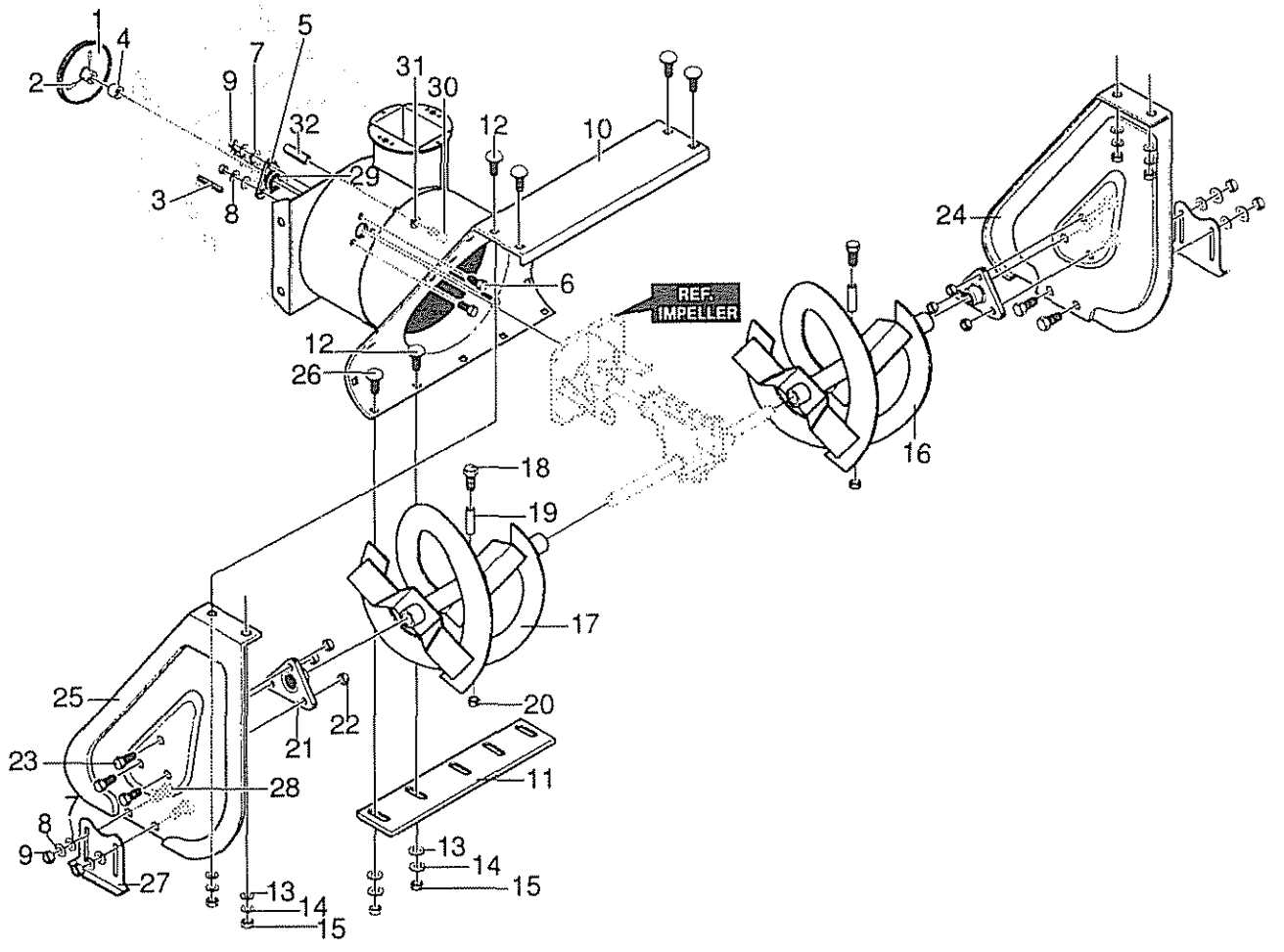



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 10577 | Case, Gear Box R.H. |
| 2 | 10576 | Case, Gear Box L.H. |
| 3 | 180020 | Screw, HHC, 1/4-20x3/4 In. |
| 4 | 46931 | Locknut, Wd Fl, 5/16-24 Thd. |
| 5 | 303008 | Nut, Hex Keps, 1/4-20 Thd. |
| 6 | 9344 | Screw, WaTap, 3/8-16x1/2 In. |
| 7 | 9566 | Seal, Oil |
| 8 | 50304 | Bearing, Flange |
| 9 | 9346 | Flatwasher, .752x1.24x.09 |
| 10 | 581389 | Shaft, Auger, 24 In. |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 11 | 51279 | Gasket, Gear Case |
| 12 | 51405 | Gear, Worm |
| 13 | 431787 | Key, Woodruff #61 |
| 14 | 50221 | Bearing, Flange |
| 15 | 583125 | Shaft, Worm Impeller |
| 16 | 580295 | Collar, Thrust |
| 17 | 454565 | Pin, Spring |
| 18 | 313828 | Bearing, Roll |
| 19 | 585598-830 | Impeller Assembly |

# CRAFTSMAN 24" SNOW THROWER 536.884571

## AUGER HOUSING REPAIR PARTS

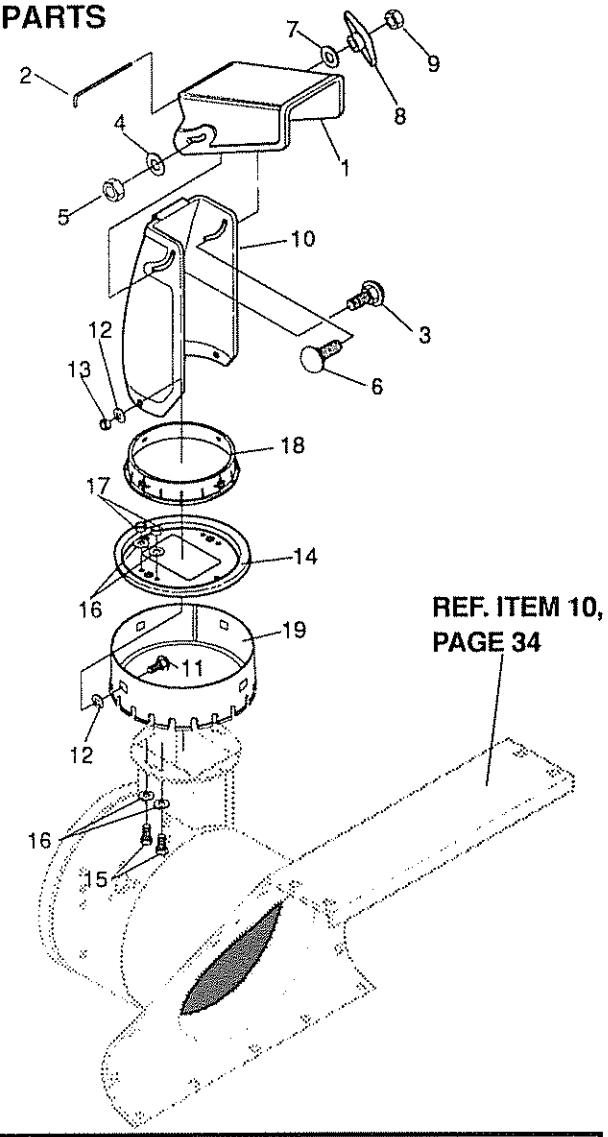



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 583124 | Pulley, Auger Drive |
| 2 | 577400 | Screw, Set, 5/16-18 x 1/2 In. |
| 3 | 71371 | Key, Square |
| 4 | 583219 | Spacer, Sleeve, .676x1.00x 52 |
| 5 | 582960 | Ball Bearing Retainer |
| 6 | 180077 | Screw, 5/16-18x3/4 In. |
| 7 | 120393 | Flatwasher, 11/32 In. |
| 8 | 120638 | Lockwasher, Split, 5/16 In. |
| 9 | 120376 | Nut, 5/16-18 Thd. |
| 10 | 333908-854 | Housing, Auger Assembly |
| 11 | 581397-830 | Blade, Scraper, 24 In. |
| 12 | 3809 | Bolt, Carriage, 1/4-20 x 5/8 In. |
| 13 | 120392 | Flatwasher, 9/32 x 5/8 In. |
| 14 | 120380 | Lockwasher, Split, 1/4 In |
| 15 | 120375 | Nut, Hex, 1/4-20 Thd |
| 16 | 581645-830 | Auger, Assembly LH |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 17 | 318532-830 | Auger, Assembly RH |
| 18 | 9524 | Screw, HHC, 1/4-20x1-3/4 In |
| 19 | 3943 | Spacer, Sleeve, .250x.47x.20 |
| 20 | 1502 | Locknut, 1/4-20 Thd |
| 21 | 9517 | Bearing, Flange |
| 22 | 8619 | Nut, Wd Fl, 5/16-18 Thd. |
| 23 | 9357 | Screw, Wa, 5/16-18x3/4 In. |
| 24 | 305938-854 | Plate, Auger Side LH |
| 25 | 305939-854 | Plate, Auger Side RH |
| 26 | 323825 | Bolt, Carriage,1/4-20x.75 |
| 27 | 1161 | Skid, Height Adjust |
| 28 | 70993 | Bolt, Carriage, 5/16-18x3/4 In. |
| 29 | 49562 | Bearing |
| 30 | 180120 | Screw, 3/8-16x.75 |
| 31 | 120382 | Washer, Regsptlk |
| 32 | 584809 | Hub, Brake Arm |

# CRAFTSMAN 24" SNOW THROWER 536.885471

## DISCHARGE CHUTE REPAIR PARTS

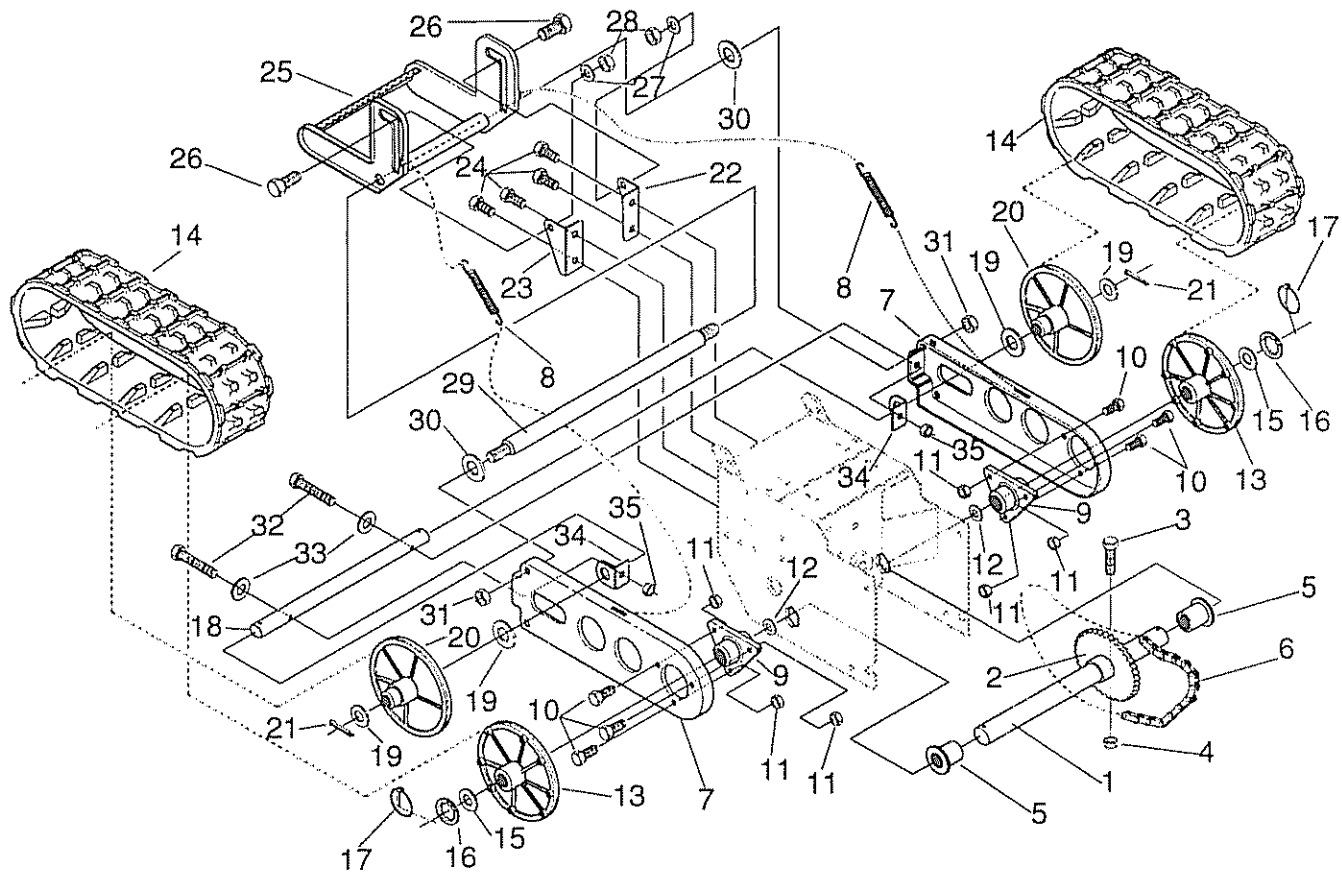



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 307665 | Upper Chute Deflector |
| 2 | 308931 | Wire, Chute Hinge |
| 3 | 58208 | Screw, SltMa, 5/16-18 x 3/4 In. |
| 4 | 302680 | Flatwasher, .312 x .73 x .065 |
| 5 | 1498 | Locknut, Hex, 5/16-18 Thd. |
| 6 | 302843 | Bolt, Carr, 5/16-18x1-1/4In. |
| 7 | 302680 | Flatwasher, .312x.73x.065 |
| 8 | 13527 | Knob, Tee |
| 9 | 120376 | Nut, Hex, 5/16-18 Thd. |
| 10 | 585414 | Lower Chute |
| 11 | 302843 | Screw, HHC, 1/4-20 x 1/2 In. |
| 12 | 120393 | Flatwasher, .344 x .69 x .065 |
| 13 | 71038 | Nut, 5/16-18 Hexnyl |
| 14 | 585214-853 | Collar, Chute Rectangular |
| 15 | 180020 | Screw, 1/4-20 x .75 |
| 16 | 120392 | Flatwasher, .281x.63x.065 |
| 17 | 1502 | Nut, 1/4-20 Reghexctrlk |
| 18 | 585194 | Retainer, Ring Inner |
| 19 | 585193 | Retainer, Ring Outer |

334214A

# CRAFTSMAN 24" SNOW THROWER 536.885471

## TRACK ASSEMBLY REPAIR PARTS

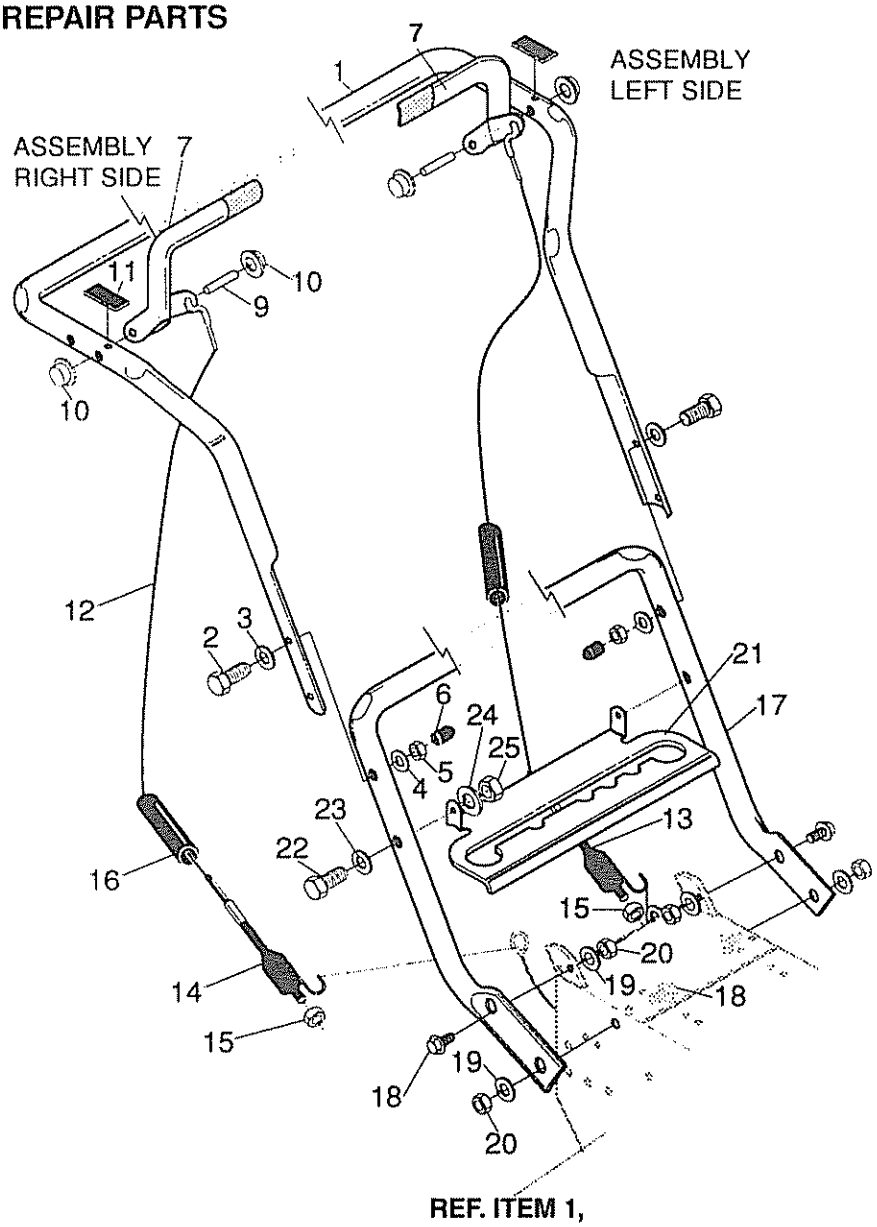



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 581119 | Shaft, Axle Track/Comp 20" |
| 2 | 581170 | Sprocket, Hub |
| 3 | 73839 | Screw, HHC, 1/4-20x2-1/4 In. |
| 4 | 1502 | Nut, Hex Nyl, 1/4-20 Thd. |
| 5 | 581730 | Bearing, Flange |
| 6 | 579868 | Chain, Roller |
| 7 | 580635-853 | Plate, Track Drive |
| 8 | 313912 | Spring, Drive Idler |
| 9 | 316863 | Bearing, Track |
| 10 | 180020 | Screw, HHC, 1/4-20x3/4 In. |
| 11 | 46931 | Locknut, Wd Fl, 1/4-20 Thd. |
| 12 | 580764 | Spacer, Plastic .755x1.20x.410 |
| 13 | 580903 | Sprocket, Track Drive Compact |
| 14 | 580047 | Track, 4" WD x 15 Pitch |
| 15 | 73840 | Flatwasher, .765x1.12x.06 |
| 16 | 239 | Ring, Retaining |
| 17 | 322424 | Pin, Klick |
| 18 | 580877 | Shaft, Idler 43" Track |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 19 | 579597 | Flatwasher, .656x1.31x.07 |
| 20 | 580906 | Wheel |
| 21 | 302847 | Pin, Cotter |
| 22 | 580638-853 | Bracket, Weight Transfer, LH |
| 23 | 580637-853 | Bracket, Weight Transfer, RH |
| 24 | 310169 | Screw, Wah Tap, 1/4-20x5/8 In. |
| 25 | 580657-853 | Pedal, Weight Transfer |
| 26 | 6001 | Bolt, Shoulder, 5/16-18 Thd. |
| 27 | 120638 | Lockwasher, Split, .31x.58x.08 |
| 28 | 120376 | Nut, Hex 5/16-18 Thd. |
| 29 | 580654 | Shaft, Foot Pedal, 4" Track |
| 30 | 120394 | Flatwasher, .406x.81x.066 |
| 31 | 45171 | Locknut, Whiz WdFl, 3/8-16 Thd |
| 32 | 302618 | Screw, HHC, 1/4-20 x 3 In. |
| 33 | 120392 | Flatwasher, .286 x .63 x .065 |
| 34 | 580634 | Bracket, Track Tension |
| 35 | 1502 | Locknut, Hex, 1/4-20 Thd. |

# CRAFTSMAN 24" SNOW THROWER 536.885471

## HANDLE ASSEMBLY REPAIR PARTS



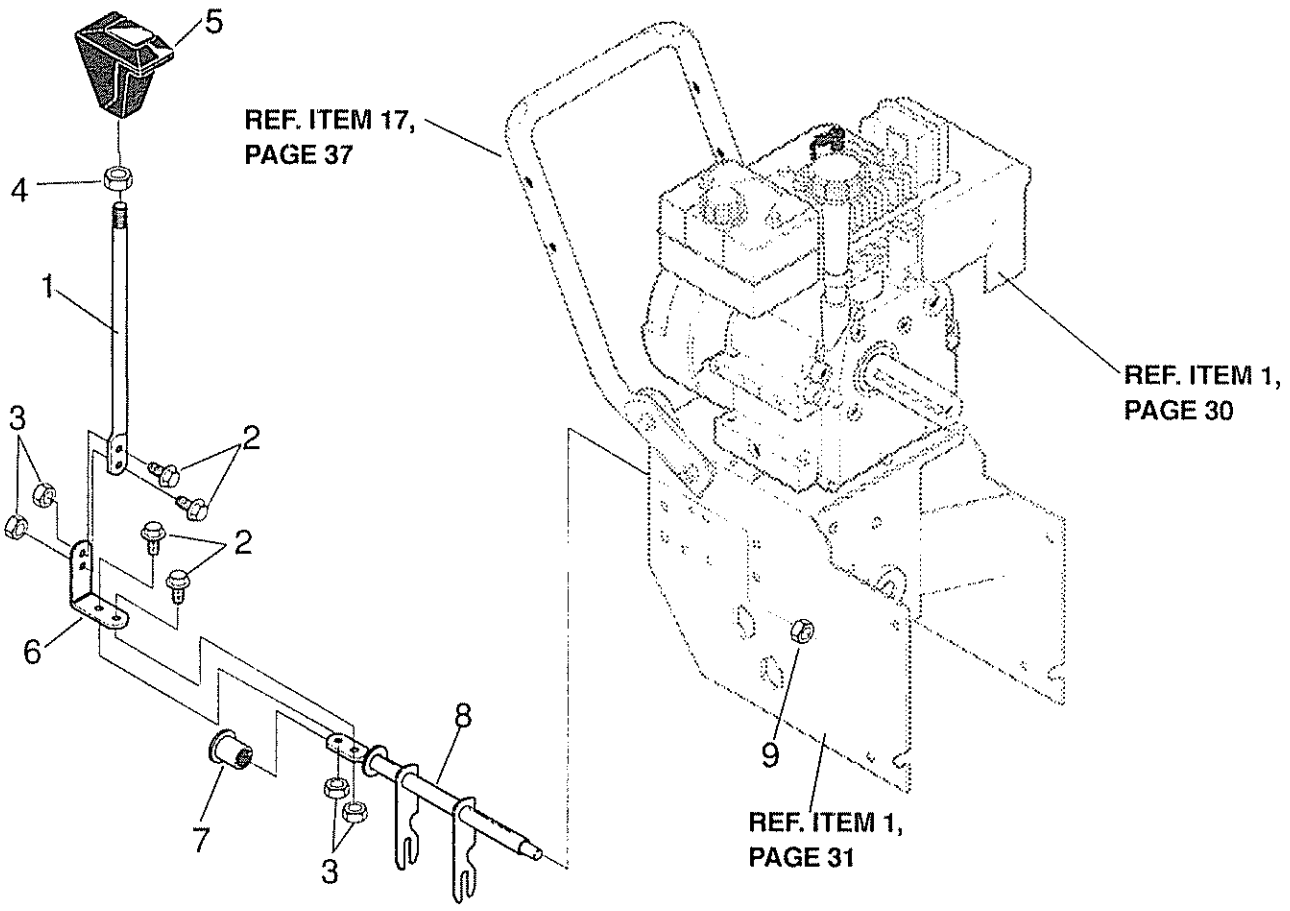

**REF. ITEM 1, PAGE 31**

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 9552-830 | Handle, Upper |
| 2 | 11234 | Screw, Hex, 5/16-18 x 2-3/4 In. |
| 3 | 120393 | Flatwasher, 11/32 In. |
| 4 | 120638 | Lockwasher, Split, 5/16 In. |
| 5 | 120376 | Nut, Hex, 5/16-18 Thd. |
| 6 | 11261 | Stop, Red Plastic, 5/16 In. |
| 7 | 334195 | Handle, LH & RH Assy. |
| 9 | 1058 | Pin, Clutch Handle, Pivot |
| 10 | 3535 | Nut, Push On Cap, 5/16 In. |
| 11 | 4049 | Bumper |
| 12 | 1579 | Cable, Clutch |
| 13 | 579869 | Spring, Drive Clutch LH |
| 14 | 1673 | Spring, Auger Clutch RH |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 15 | 1502 | Nut, Hex Nyl, 1/4-20 In. |
| 16 | 308146 | Boot, Clutch Spring |
| 17 | 580667-830 | Handle, Lower |
| 18 | 180077 | Screw, HHC, 5/16-18 x 3/4 In. |
| 19 | 120638 | Washer, Sptlk .31x.58x.08 |
| 20 | 120376 | Nut, 5/16-18 Reghex |
| 21 | 580639-830 | Bracket, Shift |
| 22 | 235 | Screw, 5/16-18 x 2 In. |
| 23 | 120393 | Flatwasher, 11/32 In. |
| 24 | 120638 | Lockwasher, Split 5/16 In |
| 25 | 120376 | Nut, Hex 5/16-18 Thd. |

# CRAFTSMAN 24" SNOW THROWER 536.885471

## SHIFT YOKE REPAIR PARTS

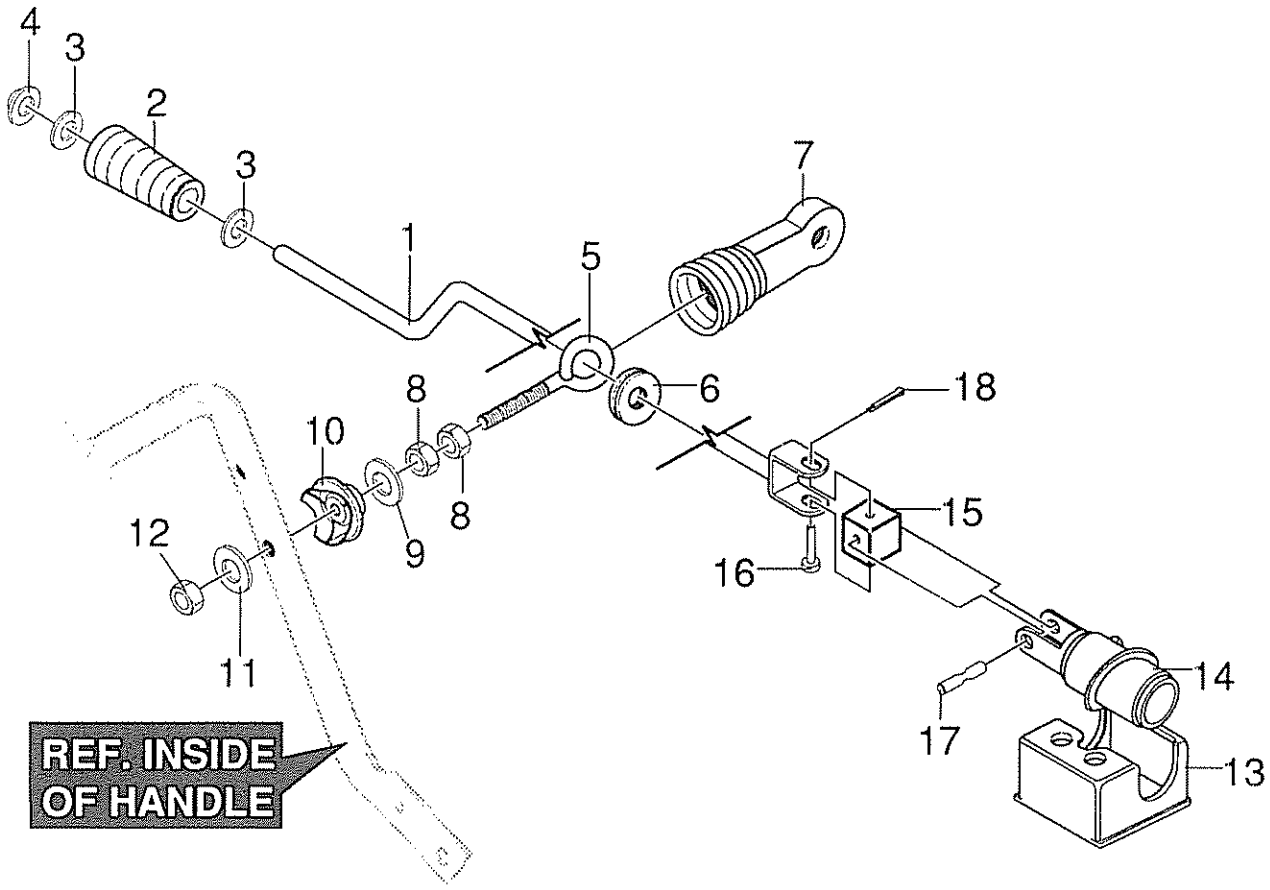



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 580769-830 | Rod, Shift |
| 2 | 51332 | Screw, WdFl, 1/4-20x5/8 In. |
| 3 | 1502 | Locknut, Hex, 1/4-20 Thd. |
| 4 | 318486 | Nut, HexJam, 1/2-13 Thd. |
| 5 | 304438 | Knob, Shift, 1/2-13 Thd. |
| 6 | 326998 | Plate, Shift Lever |
| 7 | 579944 | Bearing, Flange |
| 8 | 581795 | Speed Select, Rod Assembly |
| 9 | 1499 | Locknut, Hex, 3/8-16 Thd. |

319053

# CRAFTSMAN 24" SNOW THROWER 536.885471

## CHUTE CONTROL ROD REPAIR PARTS

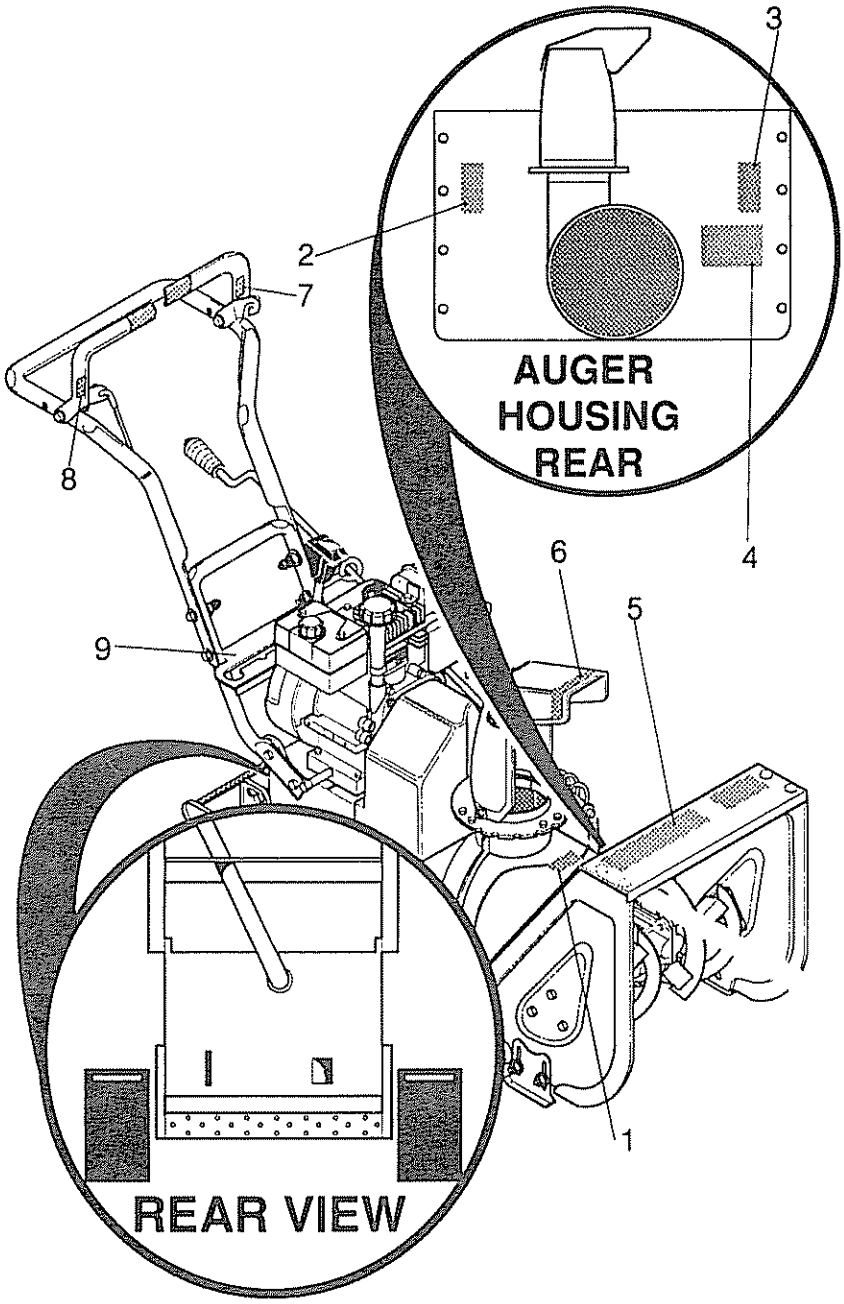



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 585426 | Crank Assy. w/Yoke |
| 2 | 307399 | Handle, Chute Crank |
| 3 | 309312 | Flatwasher, .39x 70x 05 |
| 4 | 578159 | Ring, Retaining |
| 5 | 71457 | Eye Bolt, 3/8-16x5 00 |
| 6 | 148 | Grommet, Eye Bolt |
| 7 | 308145 | Boot, Eyebolt Chute Crank |
| 8 | 124829 | Nut, 3/8-16 Hexjam |
| 9 | 120394 | Flatwasher, 406x 81x 065 |
| 10 | 309344 | Adapter, Boot to Handle |
| 11 | 120394 | Flatwasher, 406x 81x 065 |

| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 12 | 71046 | Nut, Hex Nyl 3/8-16 Thd. |
| 13 | 585195 | Bracket, Worm Mounting |
| 14 | 585196 | Worm, Gear Chute |
| 15 | 304552 | Block, Universal Joint |
| 16 | 304877 | Clevis Pin |
| 17 | 304551 | Pin, Universal Joint |
| 18 | 579493 | Cotter Pin, .06x 50 |

# CRAFTSMAN 24" SNOW THROWER 536.885471

## DECALS

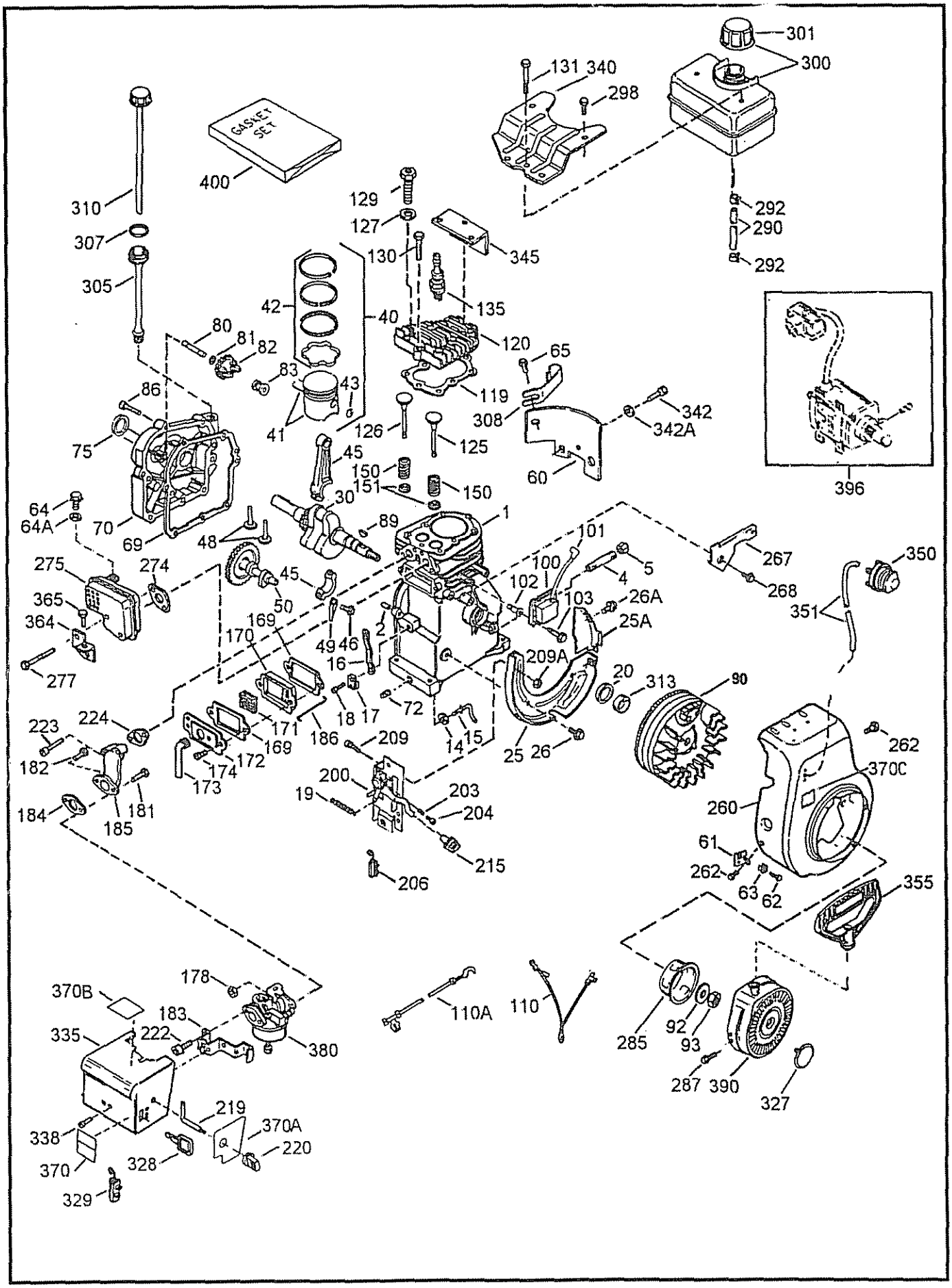



| REF. NO. | PART NO. | PART NAME |
|---|---|---|
| 1 | 302487 | Decal, 9" Impeller |
| 2 | 70141 | Decal, Danger Auger |
| 3 | 313892 | Decal, Danger Chute |
| 4 | 302922 | Decal, Danger Instruction |
| 5 | 334155 | Decal, 5/24 Trac-PlusElect. Start |
| 6 | 308768 | Decal, Danger Stripe Chute |
| 7 | 3902 | Decal, Traction Drive Engage |
| 8 | 3903 | Decal, Auger Drive Engage |
| 9 | 319033 | Decal, Gear Selector |

314005

# CRAFTSMAN 2-CYCLE ENGINE

**MODEL NUMBER143.955001**

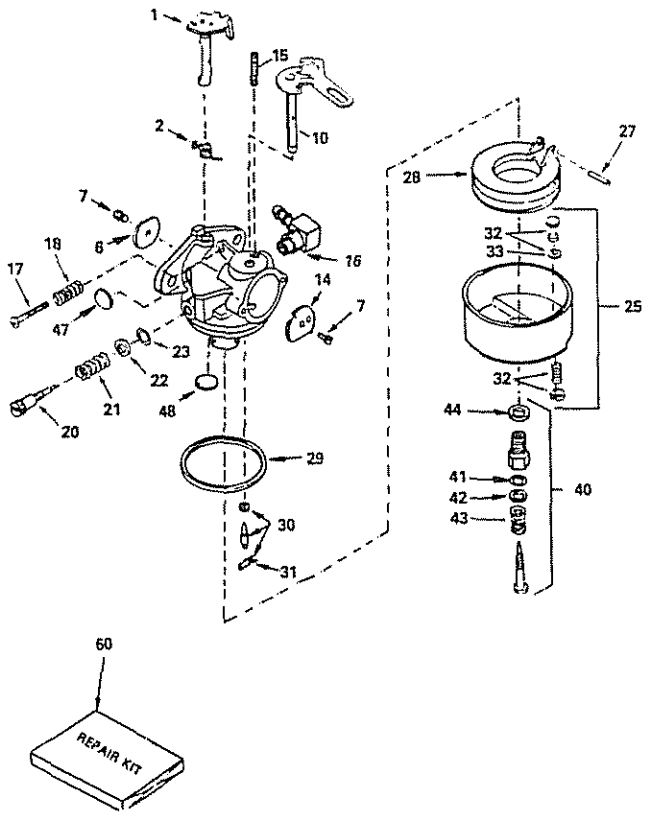


# CRAFTSMAN 2-CYCLE ENGINE

## MODEL NUMBER143.955001

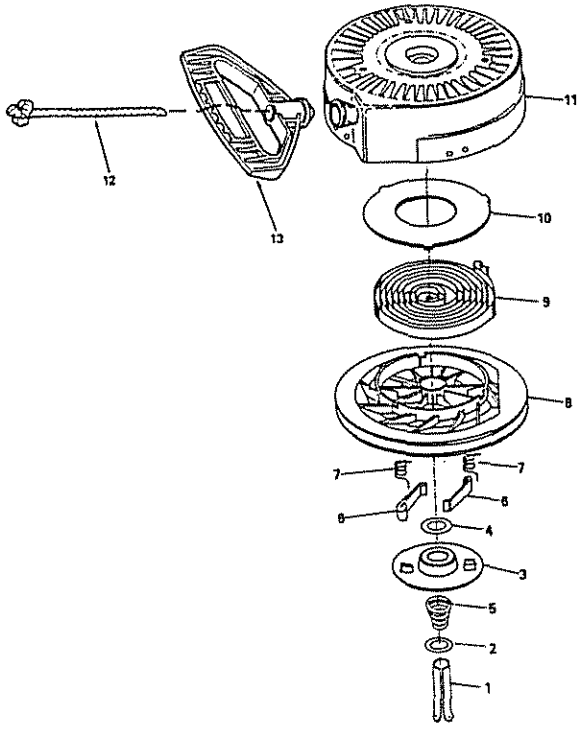
| KEY# | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 36469 | Cylinder (Incl. 2, 20, &72) | 1 |
| 2 | 26727 | Dowel Pin | 2 |
| 4 | 30968 | Oil Drain Extension | 1 |
| 5 | 30969 | Extension Cap | 1 |
| 14 | 28277 | Washer | 1 |
| 15 | 31334 | Governor Rod | 1 |
| 16 | 31510 | Governor Lever | 1 |
| 17 | 31335 | Governor Lever Clamp | 1 |
| 18 | 650548 | Screw, 8-32 x 5/16" | 1 |
| 19 | 31426 | Extension Spring | 1 |
| 20 | 32600 | Oil Seal | 1 |
| 25 | 33342 | Blower Housing Baffle | 1 |
| 25A | 35883 | Baffle Extension | 1 |
| 26 | 650802 | Screw, 1/4-20 x 5/8" | 2 |
| 26A | 650926 | Screw, 8-32 x 21/64" | 1 |
| 30 | 34740 | Crankshaft | 1 |
| 40 | 36073 | Piston, Pin & Ring Set (Std.) | 1 |
| 40 | 36074 | Piston, Pin & Ring Set (.010" OS) | 1 |
| 40 | 36075 | Piston, Pin & Ring Set (.020" OS) | 1 |
| 41 | 36070 | Pistion & Pin Ass'y. (Std. ) (Incl. 43) | 1 |
| 41 | 36071 | Pistion & Pin Ass'y. (.010" OS) (Incl. 43) | 1 |
| 41 | 36072 | Pistion & Pin Ass'y. (.020" OS) (Incl. 43) | 1 |
| 42 | 36076 | Ring Set (Std.) | 1 |
| 42 | 36077 | Ring Set ( 010 OS) | 1 |
| 42 | 36078 | Ring Set (.020 OS) | 1 |
| 43 | 20381 | Piston Pin Retaining Ring | 2 |
| 45 | 32875 | Connection Rod Ass'y. (Incl. 46 & 49) | 1 |
| 46 | 32610A | Connecting Rod Bolt | 2 |
| 48 | 27241 | Valve Lifter | 2 |
| 49 | 32654 | Oil Dipper | 1 |
| 50 | 33158 | Camshaft (BCR) | 1 |
| 60 | 29745 | Blower Housing Extension | 1 |
| 61 | 34126 | Grommet Mounting Bracket | 1 |
| 62 | 650760 | Screw, 8-32 x 3/8" | 1 |
| 63 | 28545 | Grommet | 1 |
| 64 | 30063 | Screw, Torx T-30, 1/4-30 x 1/2" | 1 |
| 64A | 8345 | Washer | 1 |
| 65 | 650128 | Screw, 10-24 x 1/2" | 1 |
| 69 * | 27677A | Cylinder Cover Gasket | 1 |
| 70 | 34674C | Cylinder Cover (Incl. 75 & 80) | 1 |
| 72 | 27642 | Oil Drain Plug | 1 |
| 75 | 27897 | Oil Seal | 1 |
| 80 | 30574A | Governor Shaft | 1 |
| 81 | 30590A | Washer | 1 |
| 82 | 30591 | Governor Gear Ass'y (Incl. 81) | 1 |
| 83 | 30588A | Governor Spool | 1 |
| 86 | 650488 | Screw, 1/4-20 x 1-1/4" | 7 |
| 89 | 610961 | Flywheel Key | 1 |
| 90 | 611199 | Flywheel *W/Ring Gear | 1 |
| 92 | 650815 | Belleville Washer | 1 |
| 93 | 650863 | Flywheel Nut | 1 |
| 100 | 34443A | Solid State Ingnition | 1 |
| 101 | 610118 | Spark Plug Cover | 1 |
| 102 | 650872 | Solid State Mounting Stud | 2 |
| 103 | 650814 | Screw, torx T-15, 10-24 x 1" | 2 |
| 110 | 35557 | Ground Wire | 1 |
| 110A | 35285 | Ground Wire | 1 |
| 119 * | 36443 | Cylinder Head Gasket | 1 |
| 120 | 36441 | Cylinder Head (Incl. 131) | 1 |
| 125 | 29313C | Exhaust Valve (Std ) (Incl. 151) | 1 |
| 125 | 29315C | Exhaust Valve 91/32" OS) ( Incl. 151) | 1 |
| 126 | 32644A | Intake Valve (Std.) (Incl. 151) | 1 |
| 126 | 32645A | Intake Valve (1/32"OS) (Incl. 151) | 1 |
| 127 | 650691 | Washer | 1 |
| 129 | 650818 | Screw, 5/16-18 x 1-1/2" | 1 |
| 130 | 6021A | Screw, 5/16-18 x 1-1/2" | 2 |
| 131 | 650694 | Screw, 5/16-18 x 2" | 5 |
| 135 | 35395 | Resistor Spark Plug (RJ19LM) | 1 |
| 150 | 31672 | Valve Spring | 2 |
| 151 | 31673 | Valve Spring Cap | 2 |
| 169 * | 27234A | Valve Cover Gasket | 2 |
| 170 | 27666 | Breather Body | 1 |
| 171 | 31410 | Breather Element | 1 |
| 172 | 34146 | Valve cover | 1 |
| 173 | 35350 | Breather Tube | 1 |
| 174 | 30200 | Screw, 10-24 x 9/16" | 2 |
| 178 | 29752 | Nut & Lock Washer, 1/4-28 | 2 |
| 181 | 650870 | Screw, 1/4-28 x 1-11/16" | 1 |
| 182 | 6201 | Screw, 1/4 x 7/8" | 1 |
| 183 | 34583 | Chike Bracket | 1 |
| 184 * | 26756 | Carburetor To Intake Pipe Gasket | 2 |
| 185 | 33691 | Intake Pipe | 1 |
| 186 | 32698 | Governor Link | 1 |
| 200 | 33858A | Control Bracket (Incl, 203, 204, 206,209 &209A) | 1 |
| 203 | 31342 | Compression Spring | 1 |
| 204 | 650549 | Screw, 5-40 x 7/16" | 1 |
| 206 | 610973 | Terminal | 1 |
| 209 | 650139 | Screw, 8-32 x 1/2" | 2 |
| 209A | 30322 | Lock Nut, 8-32 | 2 |
| 215 | 35440 | Control Knob | 1 |
| 219 | 34582 | Choke Rod | 1 |
| 220 | 35438 | Chike Knob | 1 |
| 222 | 28820 | Screw, 10-32 x 1/2" | 2 |
| 223 | 650664 | Screw, 1/4-20 x 1-19/32" | 2 |
| 224 * | 33673A | Intake Pipe Gasket | 1 |
| 260 | 35656A | Blower Housing | 1 |
| 262 | 29212 | Screw, 1/4-28 x 7/16" | 2 |
| 267 | 34212 | Hold Down Bracket | 1 |
| 268 | 30200 | Screw, 10-24 x 9/16" | 1 |
| 274 * | 33670A | Exhaust Gasket | 1 |
| 275 | 35771 | Muffler (Incl. 274) | 1 |
| 277 | 650327 | Screw, 1/4-20 x 2-1/2" | 2 |
| 285 | 36476 | Starter Cup | 1 |
| 287 | 650926 | Screw, 8-32x 21/64" | 3 |
| 290 | 30705 | Fuel Line | 1 |
| 292 | 26460 | Fuel Line Clamp | 2 |
| 298 | 650665 | Screw, 1/4-15 x 7/8" | 2 |
| 300 | 35584 | Fuel Tank (Incl. 292 7301) | 1 |
| 301 | 35355 | Fuel Cap | 1 |
| 305 | 35554 | Oil Fill Tube | 1 |
| 307 | 35499 | "O" Ring | 1 |
| 308 | 35539 | Fill Tube Clip | 1 |
| 310 | 35556 | Dipstick | 1 |
| 313 | 34080 | Spacer | 1 |
| 327 | 35392 | Starter Plug | 1 |
| 328 | 35593 | Switch Key (Craftsman | 1 |
| 329 | 610973 | Terminal | 1 |
| 335 | 35072 | Carburetor Cover | 1 |
| 338 | 650257 | Screw, 8-32 x 5/16" | 2 |
| 340 | 36247 | Fuel Tank Bracke | 1 |
| 342 | 30063 | Screw, Torx T-30, 1/4-20 x 1/2" | 1 |
| 342A | 650675 | Washer | 2 |
| 345 | 33344 | Heat Baffle | 1 |
| 350 | 570682 | Primer Ass'y. | 1 |
| 351 | 32180C | Primer Line | 1 |
| 355 | 590574 | Starter Handle | 1 |
| 364 | 33333 | Carburetor Cover Bracket | 1 |
| 365 | 650735 | Screw, 10-24 x 3/8" | 1 |
| 370 | 36261 | Lubrication Decal | 1 |
| 370A | 35282 | Control Decal | 1 |
| 370B | 35878 | Intructional Decal | 1 |
| 370C | 36501 | Primer Decal | 1 |
| 380 | 632107A | Carburetor (Incl. 184) | 1 |
| 390 | 590646 | Rewind Starter | 1 |
| 396 | 33290D | Electric Starter Motor (110 Volt) (Optional) | 0 |
| 400 | 36444 | Gasket Set (Incl. items marked * ) | 1 |

## CARBURETOR NO. 632107A



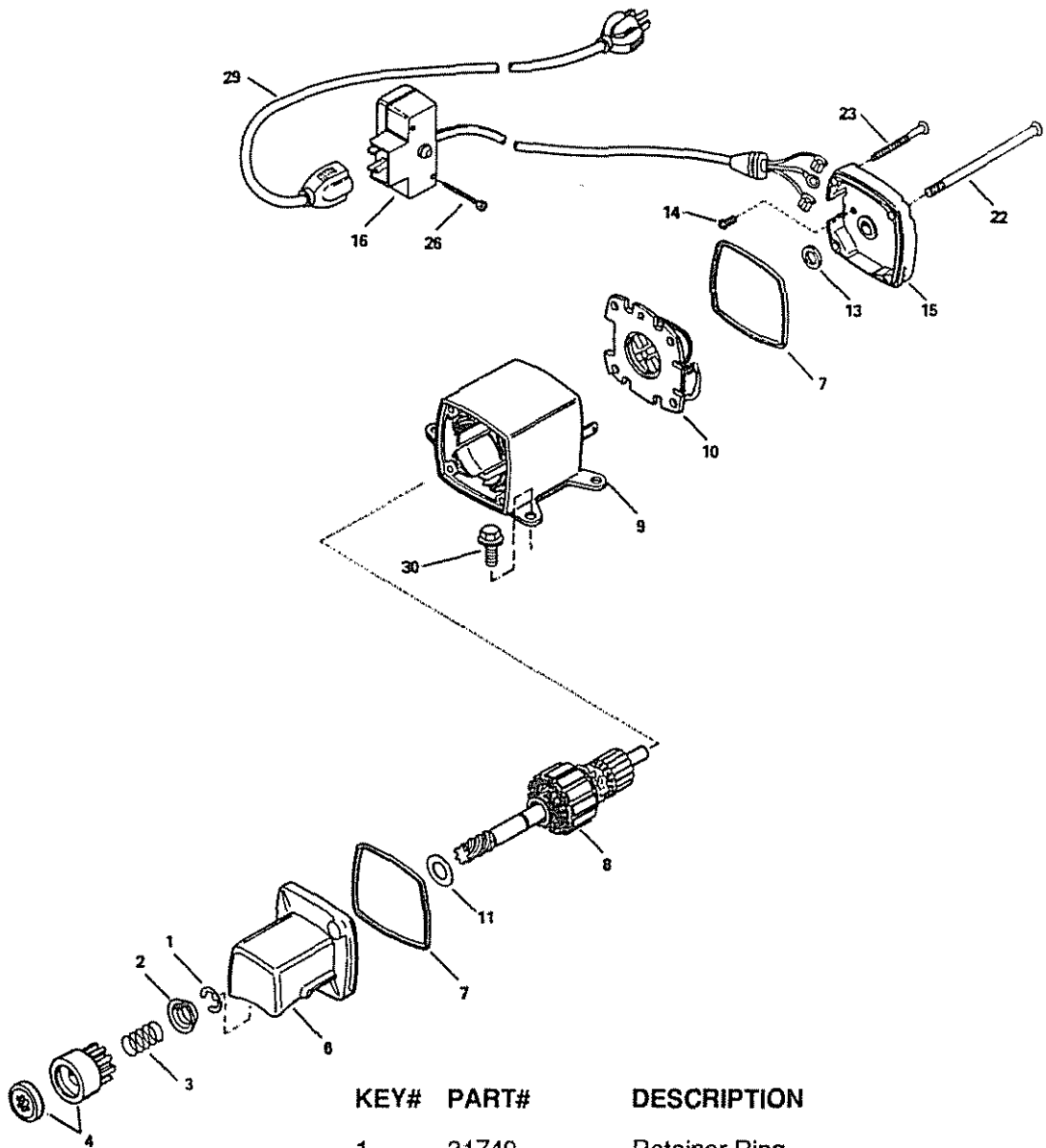

| KEY# | | PART# | DESCRIPTION | QTY |
|---|---|---|---|---|
| 1 | | 631615 | Throttle Shaft & Lever Assembly | 1 |
| 2 | | 631767 | Throttle Return Spring | 1 |
| 6 | | 631036 | Throttle Shutter | 1 |
| 7 | | 650506 | Shutter Screw | 2 |
| 10 | | 632108 | Choke Shaft & Lever Assembly | 1 |
| 14 | | 631815 | Choke Shutter | 1 |
| 15 | | 630735 | Choke Positioning Spring | 1 |
| 16 | | 631807 | Fuel Fitting | 1 |
| 17 | | 650417 | Throttle Crack Screw/Idle Speed Screw | 1 |
| 18 | | 630766 | Tension Spring | 1 |
| 20 | * | 631838 | Idle Mixture Screw | 1 |
| 21 | | 630766 | Tension Spring | 1 |
| 22 | | 630739 | Idle Mixture Screw Washer | 1 |
| 23 | * | 630740 | Idle Mixture Screw "O" Ring | 1 |
| 25 | | 631951 | Float Bowl Asy (Incl 32&33) | 1 |
| 27 | * | 631024 | Float Shaft | 1 |
| 28 | | 632019 | Float | 1 |
| 29 | * | 631028 | Float Bowl "O" Ring | 1 |
| 30 | * | 631021 | Inlet Needle, Seat & Clip (Incl 31) | 1 |
| 31 | | 631022 | Spring Clip | 1 |
| 32 | | 27136A | Bowl Drain Assy | 1 |
| 33 | | 27554 | Drain Plunger Gasket | 1 |
| 40 | * | 31839 | Main Adj Screw Ass'y (Incl 41 thru 44) | 1 |
| 41 | * | 630740 | High Speed Mixture Screw "O" Ring | 1 |
| 42 | | 630739 | High Speed Mixture Screw Washer | 1 |
| 43 | | 630738 | High Speed Mixture Screw Tension Spring | 1 |
| 44 | * | 27110 | Bowl Nut Washer | 1 |
| 47 | * | 630748 | Welch Plug, Idle Mixture Well | 1 |
| 48 | * | 631027 | Welch Plug, Atmospheric Vent | 1 |
| 60 | | 31840 | Repair Kit (Incl items marked *) | 1 |

## STARTER NO. 590646




| KEY# | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 590599A | Recoil Starter | 1 |
| 2 | 590600 | Spring Pin (Inc 4) | 1 |
| 3 | 590615 | Retainer | 1 |
| 4 | 590601 | Washer | 1 |
| 5 | 590598 | Brake Spring | 1 |
| 6 | 590616 | Starter Dog | 2 |
| 7 | 590617 | Dog Spring | 2 |
| 8 | 590645A | Pulley Ass'y (Incl 9&10) | 1 |
| 9 | 590619 | Rewind Spring | 1 |
| 10 | 590620 | Spring Cover | 1 |
| 11 | 590647 | Starter Housing Ass'y. | 1 |
| 12 | 590535 | Starter Rope (Length 98" x 9/64" dia ) | 1 |
| 13 | 590474 | Mitten Grip Handle (Not included with starter) | 1 |

## STARTER MOTOR NO 33290D




| KEY# | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 31749 | Retainer Ring | 1 |
| 2 | 33522 | Spring Retainer | 1 |
| 3 | 33769 | Anti-drift Spring | 1 |
| 4 | 33524 | Nut & Gear | 1 |
| 6 | 35461 | Drive End cap Ass'y. (Incl. 7) | 1 |
| 7 | 35450 | "O" Ring | 2 |
| 8 | 35912 | Armature | 1 |
| 9 | 35459A | Housing Ass'y. | 1 |
| 10 | 35452A | Brush & Spring Card Ass'y | 1 |
| 11 | 35911 | Thrust Washer | 1 |
| 13 | 590500 | Thrust Easher | 1 |
| 14 | 33441 | Ground Screw | 1 |
| 15 | 35453 | Commutator End Cap Ass'y. (Incl. 7) | 1 |
| 16A | 35454 | Switch Box Ass'y. (Incl. 21) | 1 |
| 22 | 35462 | Case Bolt | 2 |
| 23 | 35456 | Grounding Screw | 1 |
| 27A | 650819 | Screw, 6-32 x 2-1/2" | 2 |
| 29 | 32450B | Extension Cord (10"6") | 1 |
| 30 | 650759 | Screw, Torx T-30, 1/4-20 x 23/32 | 3 |

# NOTES

# NOTES

# NOTES

SEARS

# OWNER'S MANUAL

## MODEL NO. 536.885471

## HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

# 5 HORSEPOWER 24" DUAL STAGE TRAC-PLUS 120V/ ELECTRIC START SNOW THROWER

Each SNOW THROWER has its own MODEL NUMBER found on the engine mount frame.

Each ENGINE has its own MODEL NUMBER found on the BLOWER HOUSING.

Always mention these MODEL NUMBERS when requesting service or Repair Parts for your SNOW THROWER.

All parts may be ordered through Sears, Roebuck and Company Service Centers and most Retail Stores.

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

* **PRODUCT - "SNOW THROWER"**
* **MODEL NUMBER - 536.885471**
* **ENGINE MODEL NUMBER 143.955001**
* **PART NUMBER**
* **PART DESCRIPTION**

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