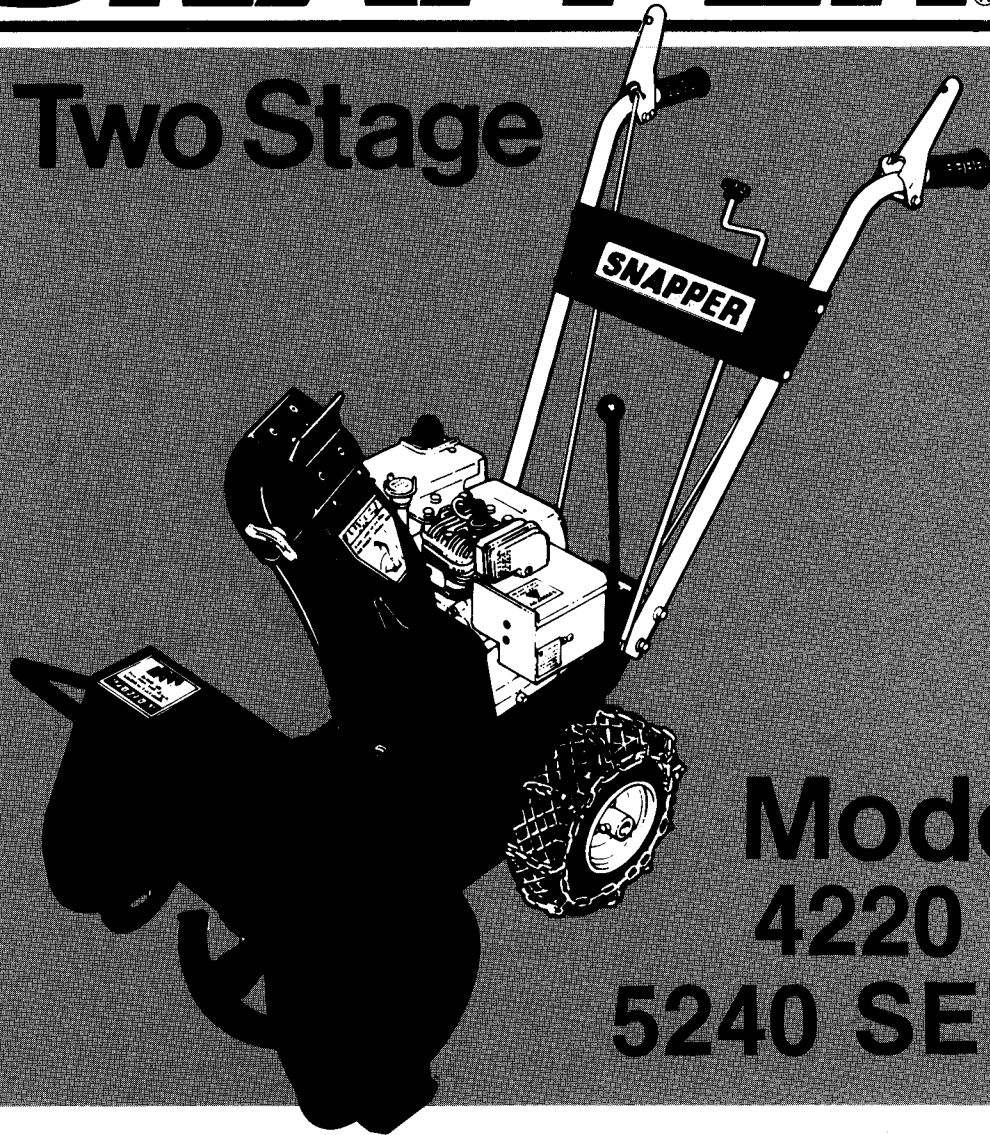


SNAPPER®

Two Stage



Model
4220 &
5240 SERIES

SNOW THROWERS

THANK YOU for buying a **SNAPPER** product! Your **SNAPPER** SNOW THROWER was designed and built to provide long and satisfactory service. Keep in mind that it, like any other mechanical device, can be potentially dangerous if used improperly and that no accident prevention program can be successful without the wholehearted co-

operation of the person responsible for the operation of the equipment. Study this Operator's Manual carefully to learn about operation of all controls and pay particular attention to the Important Safety Precautions on Page 2. Following these instructions will help you continue to enjoy the trouble-free operation expected of a **SNAPPER** product.

SNAPPER POWER EQUIPMENT
McDonough, GA • 30253



MANUAL 1-5190 (REVISION 1, 3/86)



SAFETY INSTRUCTIONS



WARNING: This powerful snow thrower is capable of amputating hands and feet and of throwing objects causing injury. Read this manual carefully and question your Snapper Dealer if something is not clear. Should the dealer be unable to answer to your satisfaction, send a letter to the Snapper Customer Service Department at Snapper Power Equipment, Post Office Box 777, McDonough, Georgia 30253, or Phone 1-404-957-9141.

PROTECTION FOR CHILDREN

1. DO NOT allow children in area when Snow Thrower is being operated.
2. DO NOT allow pre-teen children to operate Snow Thrower.
3. DO NOT allow irresponsible teenagers to operate the machine — allow teenager only if exhibiting mature judgement and then only after thorough instruction and under close supervision of an experienced operator.

PREPARATION

1. Read this manual, get to know where all controls are located and practice how to use them before starting for the first time and at the beginning of each season. Pay attention to Decals on engine and snow thrower.
2. Wear protective clothing including face mask and boots which will give you maximum footing on slippery surfaces.
3. Before the first snow fall, check the area to be cleared and remove all objects such as doormats, sticks, toys, wires, rocks, etc., which could be hurled or jam the snow thrower.
4. Survey the area to be cleared beforehand and plan where snow is to be blown. Be prepared to release blower clutch or to change deflector quickly to discharge away from windows, cars, buildings and doorways to avoid property damage or personal injury from hurled objects.
5. Adjust the collector housing height by adjusting skid shoes to clear rough spots or gravelled surfaces before starting.
6. Handle fuel with care. Store only in approved gasoline container. Move machine outdoors where fumes can be safely dissipated before filling tank. Never add fuel when engine is running. Allow cooling off period after stopping to avoid spilled fuel from igniting on contact with hot engine parts.

OPERATIONAL PRECAUTIONS

1. Before starting, make visual check to make sure blower housing is clear and all guards and shields are in place and tight.
2. Warn everyone in advance to stay clear of area but keep especially watchful for children and pets darting into area while operating.
3. Start engine only when exhaust fumes can be dissipated, allow brief warm-up period, practice operation of controls outside before putting the machine to work.
4. Start in slow speed and adjust traction speed to insure safe footing as you walk behind the unit. Exercise extreme caution to retain footing when reversing direction.
5. Transport unit with blower clutch handle released and activate only when snow is to be cleared. Set deflector to discharge desired distance beforehand.
6. Adjust traction speed slow enough to avoid overloading capacity and resulting clogging of the blower housing.
7. Should the blower become clogged, release traction and blower clutch handles and, as an additional precaution, stop the engine before attempting to unclog the collector and impellers.
8. If you strike a hard object and break the auger shear pin, stop the engine and disconnect the spark plug wire before inspecting for damage, and/or replacing the shear pin.
9. Stop the engine if unit starts to vibrate excessively as this normally indicates mechanical problems. Disconnect the spark plug wire to prevent unintentional starting before servicing or repairing the machine.
10. Avoid clearing steep slopes and keep away from drop-off areas where footing is doubtful or where the machine could tip over. Clear snow across the face of slopes whenever possible.
11. Stop the engine and remove the key whenever you leave the unit unattended to eliminate the possibility of children or untrained adults attempting to operate the machine.

Section I - FAMILIARIZATION

This manual covers the Snapper Model 4220 and 5240 Series two stage snow throwers. In addition to the recommended operating instructions, it includes routine service and adjustment procedures. Comprehensive overhaul/repair and parts manuals are available from your Snapper Dealer at nominal cost. Refer to the Engine Owner's Manual accompanying your unit for specific details involving engine operation and service. Refer to the illustration below for location of controls and other points of interest. Make sure all operators become thoroughly familiar with controls and carefully read and understand all safety instructions relating to the engine and Snow Thrower.

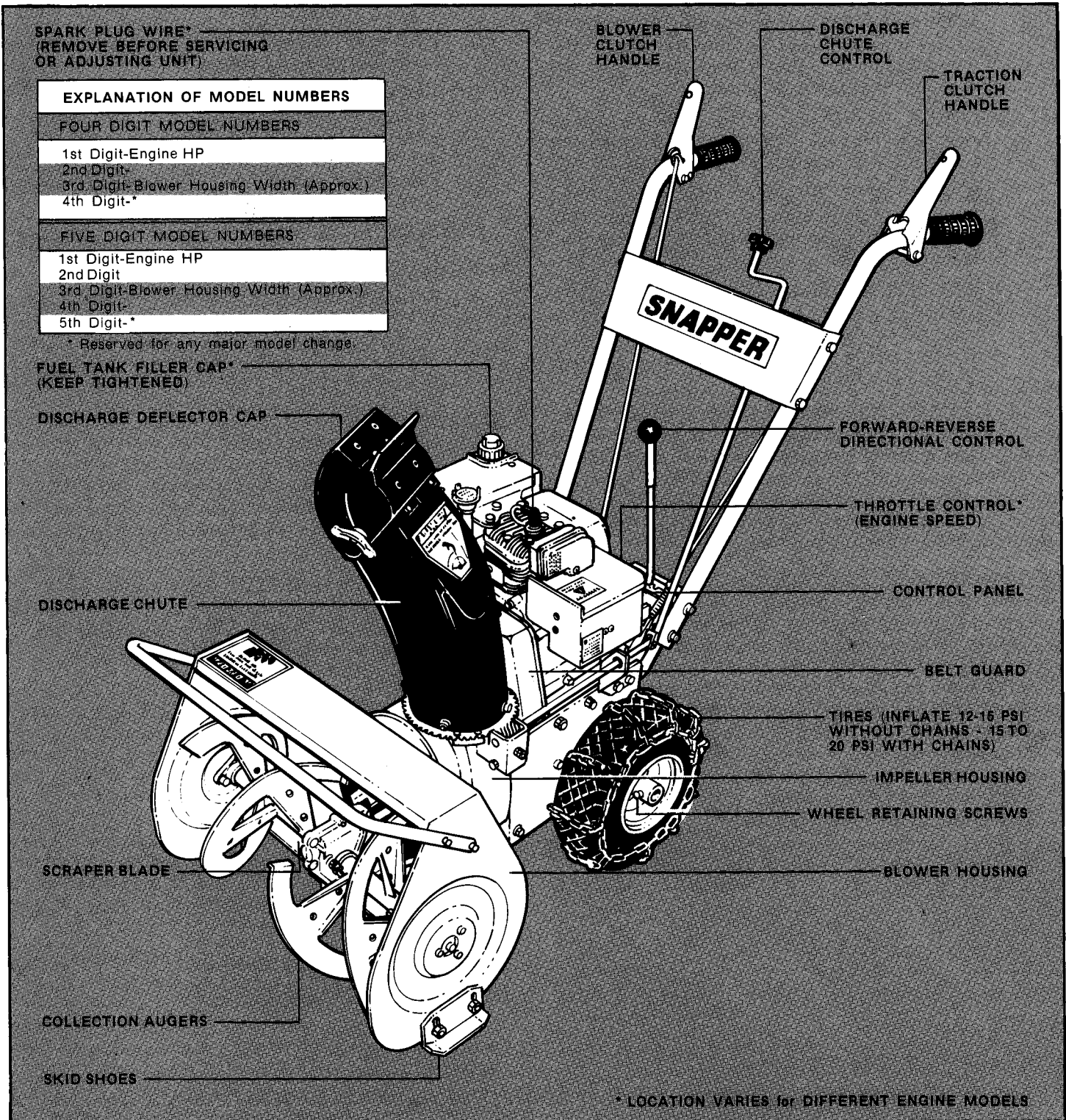


FIGURE 1.1 - LOCATION OF CONTROLS & OTHER FEATURES

Section II - MACHINE OPERATION

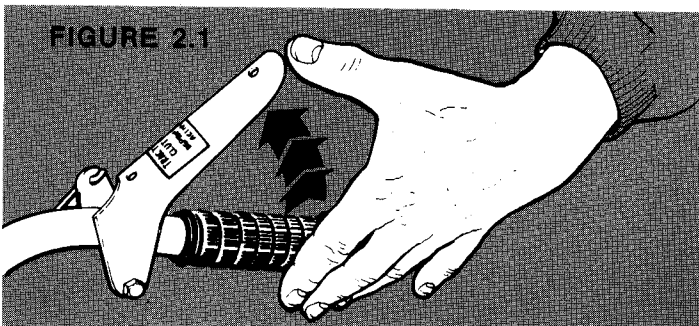
2.1 Make sure that each person authorized to operate this SNOW THROWER reads this manual prior to operation and pays particular attention to safety precautions (inside front cover) and to all warning decals on the machine. Check and perform the following before each start-up.

2.2 PRE-START CHECK & ADJUSTMENTS

- A. **ENGINE LUBE:** Check level and add oil, if needed, of weight and grade specified in the Engine Owner's Manual.
- B. **FUEL SUPPLY:** After making sure unit is safely away from ignition-producing appliances, and in area where gasoline fumes can be dissipated, fill fuel tank with gasoline specified in Engine Manual.
- C. **CHECK TIRES** and bring pressure up to specifications - 12-15 psi without tire chains or 15-20 psi with chains.
- D. **CHECK UNIT** to make sure guards and shields are in place and tight. Also check blower housing to insure that it is free of all objects.
- E. **RESET RUNNERS** to suit area to be cleared. Lower skid shoes to provide greater clearance over gravel, or raise the shoes for smooth, paved surface. Refer to Figure 3.7, SKID SHOE ADJUSTMENT.
- F. **SET DEFLECTOR CAP** to throw snow desired distance. Loosen wing nut, push cap edge back even with the chute to throw snow up to 30 feet away, or pull cap all the way out to throw snow only about three feet. Retighten wing nut after repositioning cap. **ALWAYS STOP ENGINE** before repositioning.

2.3 OPERATIONAL CONTROLS

Know how to stop the SNOW THROWER quickly in preparation for possible emergency situations. Forward and reverse motion is stopped by releasing your grip on the TRACTION CLUTCH handle on the left handle bar. See Figure 2.1. The blower auger blades and impeller fan will stop rotating within five seconds* after releasing the BLOWER CLUTCH handle on the right. Stop the engines on all models by removing the ignition key. Other operational controls are discussed where pertinent under the following operating procedures.



*NOTE: IF rotation continues after five seconds, refer to the CLUTCH CABLE instructions for readjustment.

2.4 STARTING & WARMUP

Whenever possible, push SNOW THROWER outdoors before starting. If the unit must be started inside your garage, for example, make sure doors are wide open to provide maximum ventilation. Move the unit outdoors as soon as possible after starting. After performing the pre-start checks and services described earlier, proceed as follows:

- A. **THROTTLE CONTROL:** Move control to FAST position.
- B. **CHOKE:** Refer to Engine Manual for priming and/or choking details.
- C. **ENGINE IGNITION:** On all units, insert key or turn key to ON position.
- D(1) **ROPE STARTING:** On manual start models, pull starting rope out in smooth, steady motion until engine starts. To prolong the life of the starter rope, slowly guide the handle back to the engine rather than allowing it to snap back.
- D(2) **ELECTRIC STARTING:** On units with plug-in 120 Volt electric start, connect the starter cable to the engine starter system, insert the three pronged plug into a grounded 110-volt power receptacle and depress the starter button on the cable until engine starts. Detach cable from receptacle and engine. On jump start equipped models, refer to instructions provided in kit.

NOTE: If engine does not start after five seconds of continuous cranking, release the key or start button to prevent overheating of the starting motor. Locate and correct cause of starting problem before repeating electric starting attempt.

WARM-UP PERIOD: Allow brief warm-up outside with clutches released to avoid stalling cold engine. Reset Choke as instructed in Engine Manual as the unit warms up.

2.5 OPERATION: Select desired traction speed by adjusting DIRECTION CONTROL LEVER, depress TRACTION CLUTCH handle and drive unit to area to be cleared. Depress BLOWER CLUTCH handle and proceed to blow snow. The THROTTLE CONTROL should normally be in the FAST position for best result under most conditions. CAUTION: If clogging occurs, back unit away from snow bank, release both CLUTCH handles and, as a further precaution, stop the engine and remove spark plug wire before clearing the snow from the housing and/or discharge chute.

2.6 BEFORE STOPPING: Move unit to cleared area, release TRACTION CLUTCH handle and run up to top speed with BLOWER CLUTCH HANDLE depressed to clear housing of slush and snow, thus preventing freeze-up of the impeller upon restarting next time.

2.7 STOPPING PROCEDURE: On all units, remove the key to stop engine or move the THROTTLE CONTROL to OFF or STOP.

Section III - MAINTENANCE

3.1 LUBRICATION SERVICES

Refer to the Engine Manual for lubrication requirements on the engine powering your SNOW THROWER. Your SNOW THROWER unit has five (5) grease fittings, two (2) on the augers, one (1) in the gearbox housing and two (2) on the auger shaft bearings as shown in Figure 3.1. Service these and the other general lube points as follows:

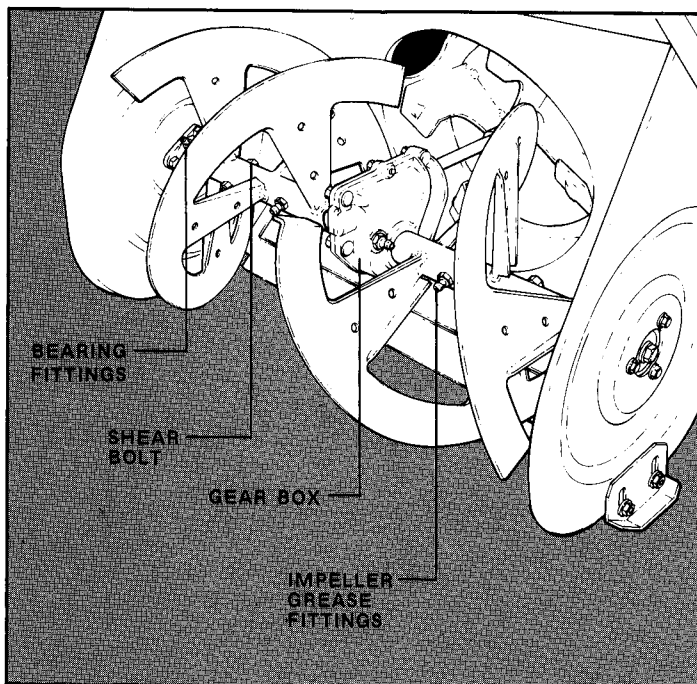


FIGURE 3.1

3.2 AUGER LUBRICATION: ONCE EACH YEAR, preferably at the end of the winter season, remove the two (2) shear bolts, apply grease to the fittings, then spin the auger to work the grease out along the auger shaft. Continue greasing and spinning augers until grease appears at both ends of each auger tube. Reinstall shear bolts and nuts after servicing. This procedure will prevent the auger shaft from rusting to the auger tube.

3.3 BEARING LUBE: ONCE EACH YEAR, apply one or two shots of grease from gun to the bearing grease fittings located at the ends of the auger shaft, just inside the blower housings.

3.4 GENERAL LUBE POINTS: ONCE EACH YEAR, or more often if rust hampers operation, spread a light coating of grease on the chute crank worm and on the underside of the gear ring at the base of the discharge chute. Squirt oil from the oil can into the gap between the inside of the discharge chute and the outside of the discharge flange of the blower housing. Crank chute back and forth while oiling to spread lubrication evenly over both surfaces. Although not absolutely necessary, you may want to remove each wheel at the end of the season and apply a coating of grease on the axle shafts. This will help to prevent rust and allow the wheels to be moved more easily from transport to traction mode during the next season.

3.5 GEARBOX LUBRICATION: Grease ONCE EACH YEAR, or more often as required, with 5 shots of SNAPPER "OO" grease. See Figure 3.2.

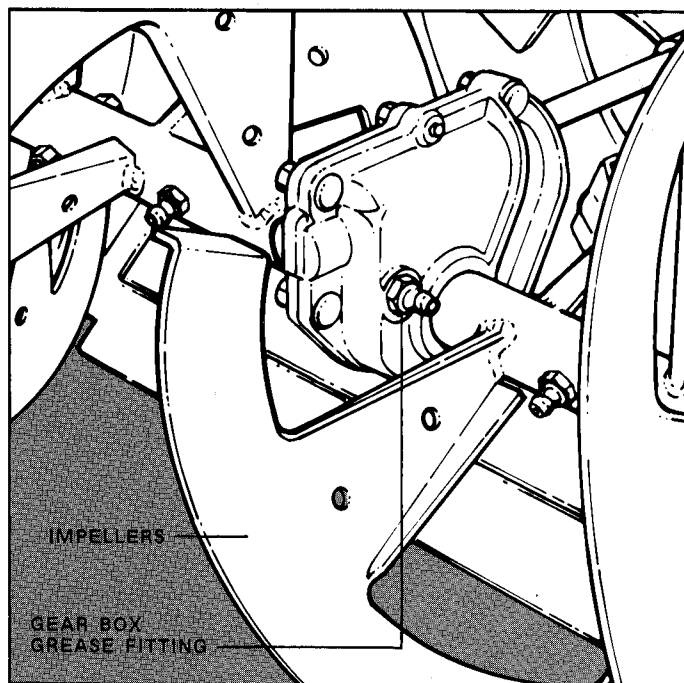


FIGURE 3.2

3.6 CHUTE CRANK SERVICE

If the chute does not crank easily after lubricating, as specified under **GENERAL LUBE POINTS**, loosen both nuts on the outside of the crank worm bracket as shown in Figure 3.3 and move the bracket slightly away from the chute gear or back in toward the ring until the chute again cranks with minimum effort. Retighten inside nut first, then jam the outside nut tight against the inside nut to lock at the new setting.

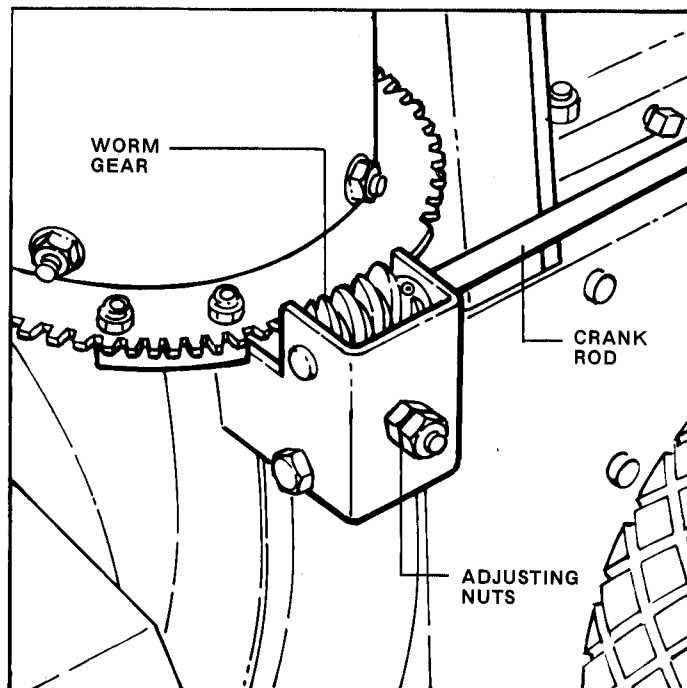


FIGURE 3.3

Section III - MAINTENANCE

3.7 BELT SERVICE

Belts do not require attention at any specific interval, but should be checked if performance deteriorates. This could occur due to slippage of worn or loose belts. Check and adjust tension of clutch cables first as described in the CLUTCH ADJUSTMENT section. If performance continues to be poor, after clutch cable tension has been corrected, then check belts. **MAKE SURE ENGINE IS STOPPED AND SPARK PLUG WIRE DISCONNECTED** before working on the belts.

NOTE: Blower rotation should cease within five seconds after clutch handle is released. If rotation continues after five seconds, cable may be too tight. If readjusting the cable does not correct the stopping time, check to make sure the idler return spring is connected and that the idler is properly set. See your **SNAPPER** Dealer to have this condition corrected.

3.8 BELT TENSION: Tension on the traction drive belt is automatically maintained by an individual idler spring. After removing the belt guard and bottom cover, check to make sure this spring is intact and properly installed. If the spring is properly connected, check for excessively worn belts. Notice the return spring on the idler for the blower drive - this spring activates the brake. The idler should always return to braking position! Tension of the blower drive belt, which is on the $\frac{3}{4}$ dia. engine drive pulley, is adjusted by loosening and repositioning the idler pulley. To increase tension, loosen the idler pulley retaining nut, hold the idler arm and push the pulley tighter against the belt. See Figure 3.4. Retighten nut after repositioning and check for proper clutching action with blower clutch handle released. Tension of the traction belt on the inside groove is non-adjustable. Before reinstalling belt guard, check to make sure the belt guide on the right side is about $\frac{1}{16}$ " away from the outside surface of the blower belt with clutch engaged. Adjust the guide by loosening bolts and moving guide.

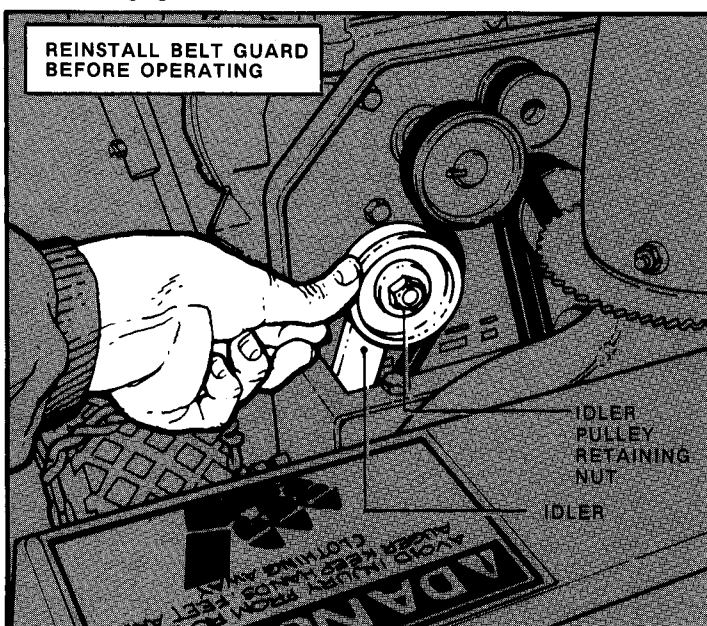


FIGURE 3.4

3.9 CLUTCH CABLE ADJUSTMENT

If slippage is noted, check tension of both clutch cables. When properly adjusted, the cables should be completely slack with clutch handle released and tight when the handle is fully depressed. The springs on both cables should deflect $\frac{3}{8}$ " when the handle is depressed. To adjust cable length, (shorten or lengthen), loosen jam nut and rotate adjuster sleeve. Retighten jam nut. See Figures 3.5 and 3.6.

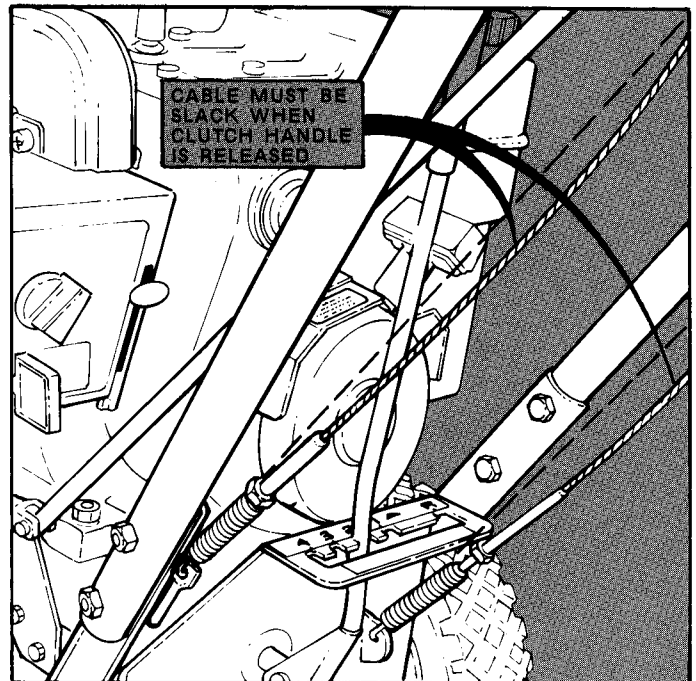


FIGURE 3.5

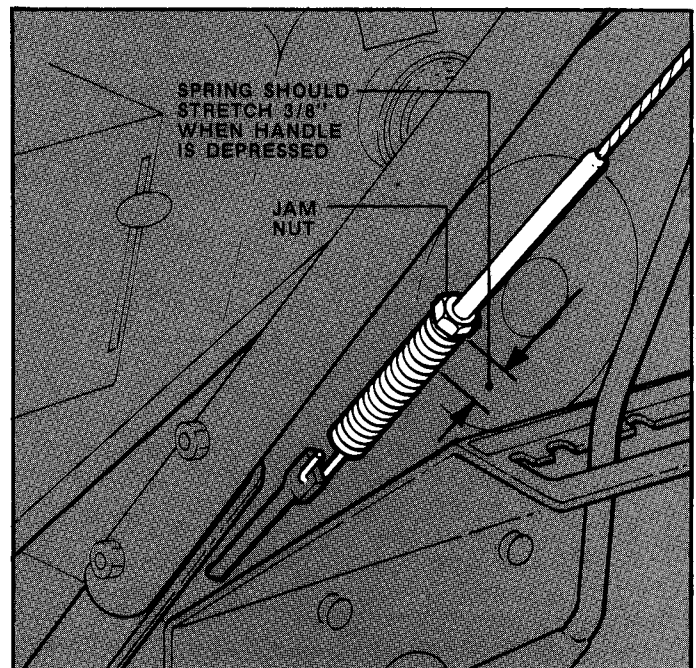


FIGURE 3.6

MANUFACTURER'S 2 YEAR LIMITED WARRANTY

For two (2) Years from purchase date for the original purchaser's residential, non-commercial use [ninety (90) days from purchase date for the original purchaser's commercial, rental, or other non-residential use], SNAPPER POWER EQUIPMENT, through any SNAPPER dealer will replace, free of charge, any part or parts found upon examination by the factory at McDonough, Georgia, to be defective in material or workmanship or both.

All transportation cost incurred by the purchaser in submitting material to a SNAPPER dealer for replacement under this warranty must be borne by the purchaser.

This warranty does not apply to engines and their components, as these items are warranted separately by their manufacturers, and does not apply to batteries which are covered separately. This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper lubrication, normal wear, or other cause beyond our control.

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two (2) years from purchase date for the original purchaser's residential, non-commercial use [ninety (90) days from purchase for the original purchaser's commercial, rental or other non-residential use], and to the extent permitted by law any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages, under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

WARNING: THE USE OF REPLACEMENT PARTS OTHER THAN GENUINE SNAPPER PARTS MAY IMPAIR THE SAFETY OF SNAPPER PRODUCTS AND WILL VOID ANY LIABILITY AND WARRANTY BY SNAPPER ASSOCIATED WITH THE USE OF SUCH PARTS.

IMPORTANT: Please fill out the attached SNAPPER Product Registration Card immediately and mail to: SNAPPER POWER EQUIPMENT, McDONOUGH, GEORGIA 30253



SNAPPER POWER EQUIPMENT
McDonough, GA • 30253



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