

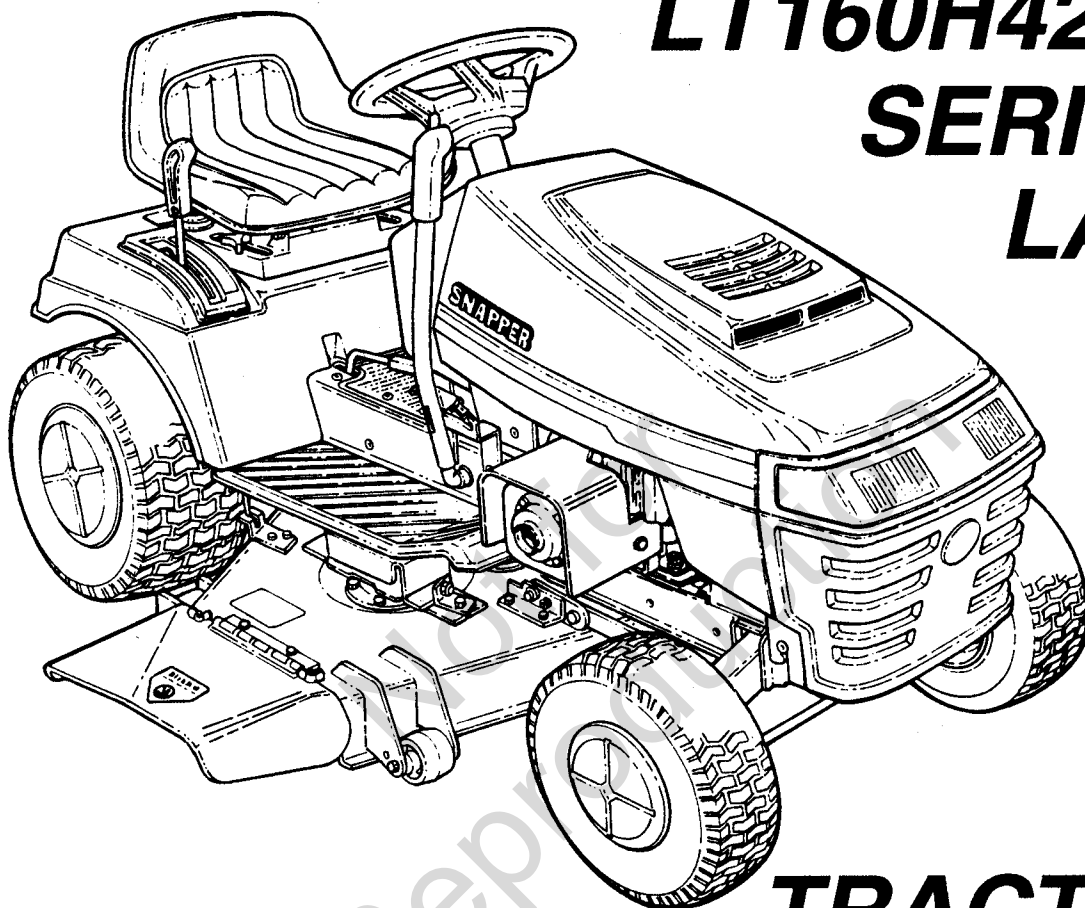
Safety Instructions & Operator's Manual

SNAPPER®

LT160H422BV

SERIES 2

LAWN



TRACTORS & MOWER ATTACHMENTS

*Thank you for buying a **SNAPPER** product! Before operating your mower, read and follow the important Safety Instructions (on Page 2), and the other instructions contained in this manual and the accompanying booklet, "About Power Mower Safety." Lawnmowers, and all power equipment, can be potentially dangerous if used improperly. REMEMBER: SAFETY REQUIRES CAREFUL USE IN ACCORDANCE WITH INSTRUCTIONS AND COMMON SENSE.*

SNAPPER® McDonough, GA., 30253 U.S.A.

MANUAL No. 2-7729 (I.R. 4/93)

IMPORTANT SAFETY INSTRUCTIONS

WARNING: This powerful cutting machine is capable of amputating hands and feet and can throw objects that can cause injury and damage! Failure to observe the following SAFETY instructions could result in serious injury. Carefully read this manual and question your dealer if something is not clear. Should the dealer be unable to answer to your satisfaction, write or call the Customer Service Department at SNAPPER, McDonough, Georgia, 30253 (Phone 404-954-2500).

PROTECTION FOR CHILDREN

1. DO NOT allow children in yard when machine is operated.
2. DO NOT allow children to ride on machine or on attachments.
3. DO NOT allow per-teenage children to operate machine.
4. Only responsible teenagers with mature judgement shall be allowed to operate machine and only under close supervision.

PROTECTION AGAINST TIPOVERS

1. DO NOT operate machine on slopes exceeding 15 degrees (27% grade).
2. On slopes above 10 degrees (18% grade), exercise extreme CAUTION. Turn blade OFF when traveling uphill, also reduce speed and avoid sharp turns.
3. Avoid uphill starts. If machine is stopped going uphill, turn blade OFF and back slowly down the slope.
4. DO NOT mow under any condition where traction or stability is doubtful without first test driving over the terrain with blade OFF.
5. Stay alert for holes and other hidden hazards. Keep away from ditches, washouts, culverts, fences and protruding objects.
6. DO NOT mow back and forth across face of slopes.
7. KEEP A SAFE DISTANCE (at least three feet) away from edge of ditches and other drop offs.

OTHER IMPORTANT PRECAUTIONS

1. Read and follow operator's manuals and instructions furnished with attachments.
2. Only mature, responsible persons shall operate the machine.
3. Mount and dismount the machine from left side.
4. Wear appropriate protective clothing when mowing, such as, long pants and substantial footwear, not barefoot or with open sandals.
5. Practice operation of machine with blade OFF to learn controls and develop skill.
6. Persons under the influence of alcohol or drugs must NOT operate machine.
7. Know how to STOP blade and engine quickly in preparation for emergencies.

8. Keep people and pets a safe distance from machine.
9. Shields, deflectors, switches, blade controls and other safety devices must be in proper position and functional.
10. Clear area to be worked of wire, rocks and other objects that could cause injury if thrown by blade.
11. STOP blade, STOP engine and remove key when leaving machine.
12. DO NOT operate machine unless properly seated with feet on foot rests or pedal.
13. Keep hands and feet away from rotating blade underneath deck. Never place foot on ground while blade is ON or when machine is in motion.
14. Turn blade OFF, STOP engine and wait for blade to STOP before attempting to unclog grass or leaves to prevent loss of fingers or hand.
15. Blade must be switched OFF except when cutting grass. Set cutter in highest position when mowing over rough ground.
16. Deflector or grass catcher must be in position. Never point discharge at people, passing cars, windows or doors. Watch out for traffic when crossing or near roadways.
17. Operate in reverse only after careful observation of entire area behind the machine. DO NOT mow in reverse unless absolutely necessary.
18. Service machine and make adjustments only when engine is stopped.
19. Have machine serviced by an authorized SNAPPER dealer at least once a year and have the dealer install any new SAFETY devices.
20. Use only genuine SNAPPER replacement parts to assure that original standards are maintained.
21. Tighten all nuts, bolts and screws frequently, then check, adjust, repair or replace brakes as needed.
22. Lubricate machine at intervals specified in manual to prevent controls from binding.
23. Mow only in daylight or with good artificial light.
24. Handle gasoline with care! Never remove cap while engine is running. Fill tank outdoors only with engine STOPPED and cool. Clean spilled gasoline from machine. Store gasoline in approved container, out of the reach of children, in well ventilated, unoccupied building.
25. DO NOT change engine governor speed settings or overspeed engine.
26. Check grass catcher components frequently for signs of wear or deterioration and replace as needed to prevent injury from items going through weak or worn spots.
27. Exercise CAUTION when pulling loads. Limit loads to those you can safely control and attach loads to hitch plate as specified with SNAPPER attachment instructions.

FAMILIARIZATION

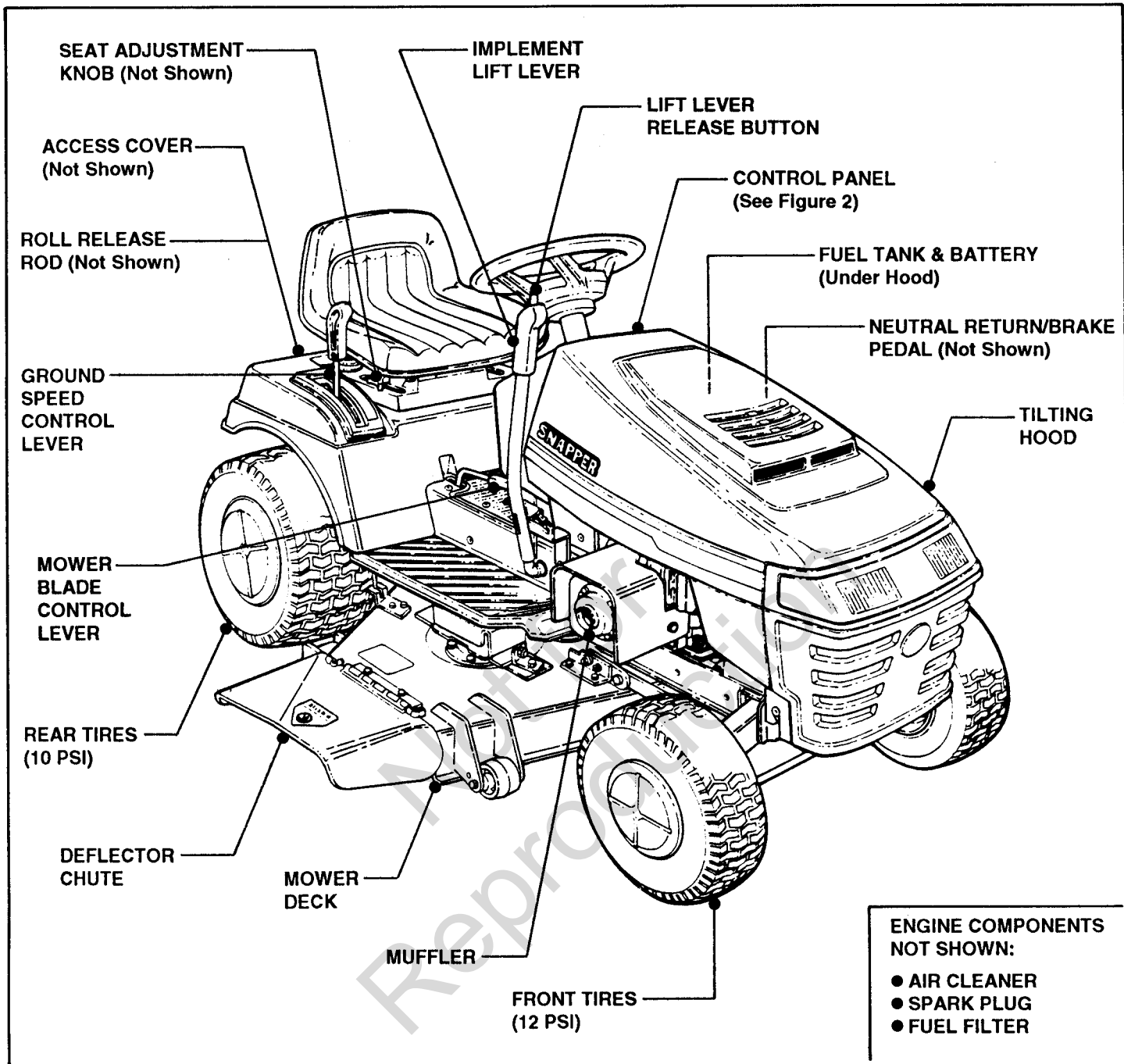


FIGURE 1

INTRODUCTION

This manual has been prepared for the operators of the **SNAPPER LTH Series HYDRO LAWN TRACTOR**.

Its purpose, aside from recommending operating and routine service requirements, is to promote safety through the use of accepted operating practices. **READ, UNDERSTAND AND FOLLOW** the SAFETY PRECAUTIONS on Page 2 of this manual and ALL SAFETY MESSAGES on the tractor and attachments before operating the machine.

NOMENCLATURE

The nomenclature drawing above (Figure 1) shows the essential parts of the **SNAPPER LTH Series HYDRO LAWN TRACTOR**. It is recommended that ALL operators of this equipment become thoroughly familiar with the controls, parts and operation of this machine before operating. Specific details involving the engine are found in the separate engine owner's manual. Study these manuals before operating and keep them both handy for future reference.

OPERATING INSTRUCTIONS

BEFORE OPERATING

Be thoroughly familiar with all controls and how to use them before operating your mower. Know beforehand how to stop the engine, wheel drive and mower blade in preparation for possible emergencies.

STOPPING

ENGINE: *STOP ENGINE* by turning the KEYSWITCH to "OFF". See Figure 2.

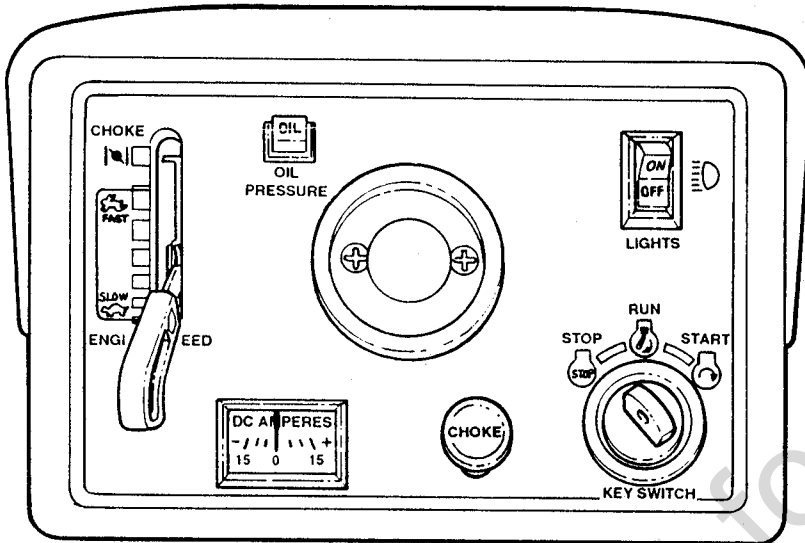


FIGURE 2

WHEEL DRIVE: *STOP FORWARD MOTION* of mower by pushing NEUTRAL RETURN/BRAKE PEDAL all the way down. See Figure 3.

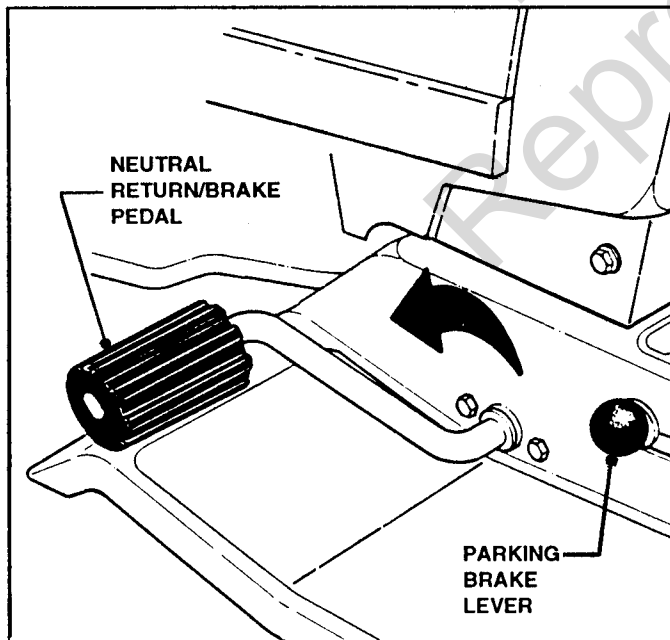


FIGURE 3

MOWER BLADE: *STOP MOWER BLADE* by pushing BLADE CONTROL lever downward to "OFF". See Figure 4.

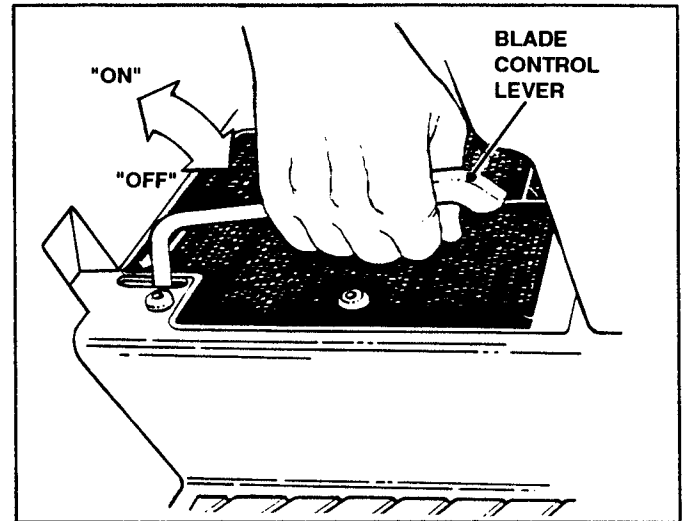


FIGURE 4

PRE-START CHECK LIST

Make the following checks and perform the service as required before each start up.

- CHECK TIRES and add air as needed to bring pressure to 12 psi in front and 10 psi in rear tires.
- CHECK GUARDS, DEFLECTORS & COVERS to make sure all are in place and securely tightened.
- CHECK BLADE CONTROL to insure it works freely. Blade lever must be moved manually from ON to OFF to stop blade.
- CLEAN EXTERIOR SURFACES of cutting deck and engine of any accumulation of dirt, grass, oil, etc. Keep engine air intake screens and cooling fins clear at all times.
- RE-ADJUST SEAT as needed to most comfortable position. (Refer to page 6, Figure 10).
- CHECK ENGINE OIL and add oil as needed to bring level up to (but not over) the full mark. (Refer to engine manual for oil specifications.)
- CHECK TRANSAXLE FLUID and add SAE 30W oil as needed to bring level up to (but not over) the full mark. See Figure 5.

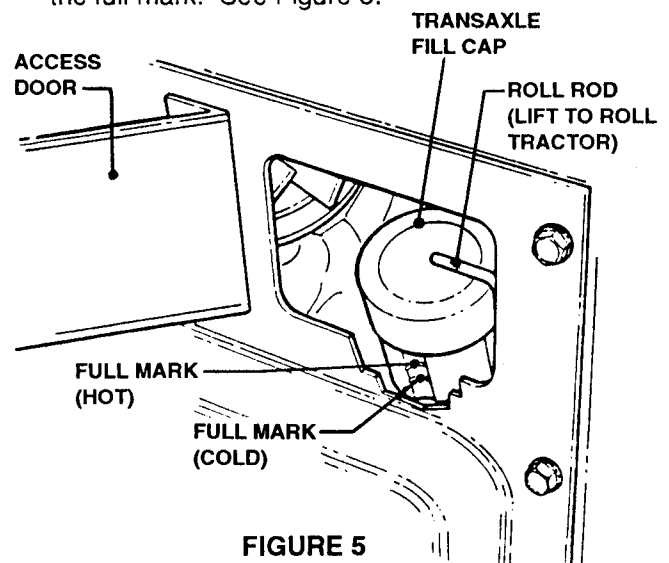


FIGURE 5

OPERATING INSTRUCTIONS

PRE-START CHECK LIST (Continued)

- ADD FUEL to tank after pushing the mower outside where fumes can be dissipated. Make sure cap is tightened after refueling. (Refer to engine manual for fuel specifications). See Figure 6.

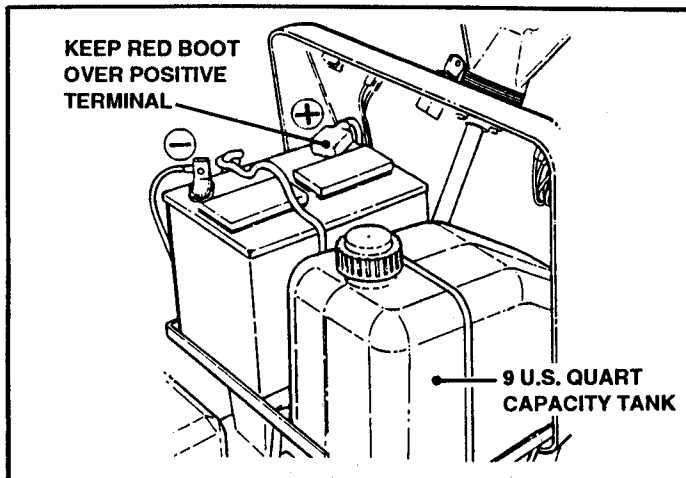


FIGURE 6

STARTING & OPERATING

ENGINE: **START ENGINE** as follows:

1. PUSH BLADE CONTROL LEVER downward to "OFF" position (Fig. 4) and fully depress the NEUTRAL RETURN/BRAKE PEDAL (Fig. 8), so that Safety Interlock System will allow engine to start.
2. CHOKE ENGINE for cold starting by moving THROTTLE CONTROL to "CHOKE" position. (Little or no choking will be needed when restarting a warm engine). Refer to Figure 2.

NOTE

The Seat Interlock will shut off the engine if the Operator gets off the seat while the tractor is in gear or if the blade is running. If the Interlock ever fails to work, then **DO NOT OPERATE** the tractor until the Interlock has been repaired.

3. Insert key in ENGINE IGNITION switch, turn key to "START" position to crank engine and hold until engine starts then release.

NOTE

DO NOT crank engine for more than five seconds at a time. This will help prevent the starter from overheating and/or running down the battery. If cranking time is more than five seconds, locate and correct cause of starting problem.

4. WARM-UP ENGINE momentarily, then move the THROTTLE CONTROL downward out of CHOKE position until engine runs smoothly. Set desired speed. Best cutting and bagging performance is obtained with engine at or near top speed.

TO START MOTION

After the engine has been started and is running smoothly, proceed as follows to start forward or rearward motion.

1. Release Brake Pedal.
2. Slowly shift SPEED CONTROL HANDLE forward for forward motion or to the rear for reverse motion. See Figure 7.

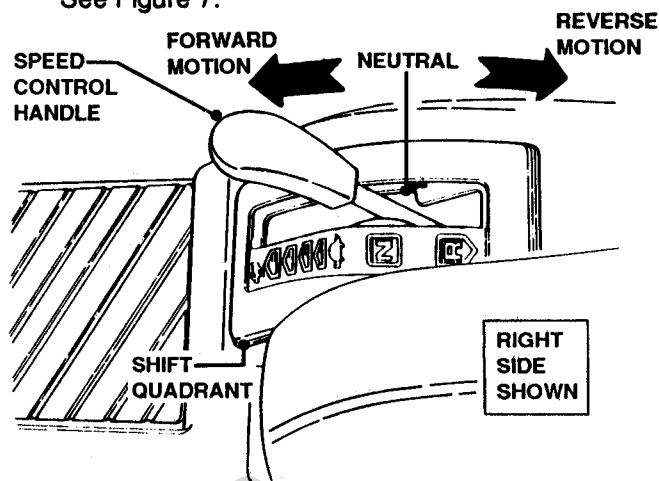


FIGURE 7

CAUTION

Avoid Uphill Starts! If Machine is Stopped Going Up Slope, Push Blade Control Lever Downward to "OFF" Position and Back Slowly Down Slope. If Uphill Start Must Be Made, Push Blade Control Lever Downward to "OFF" and Set Throttle at Half Speed.

TO STOP MOTION

Push NEUTRAL RETURN/BRAKE PEDAL all the way down to stop forward or rearward motion.

TO SET PARKING BRAKE

Depress NEUTRAL RETURN/BRAKE PEDAL. Pull PARKING BRAKE LEVER "UP" while releasing pedal. See Figure 8.

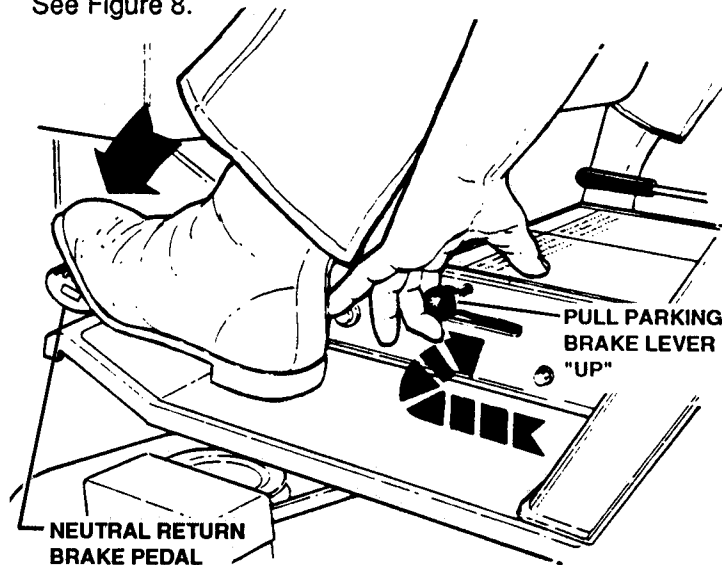


FIGURE 8

OPERATING INSTRUCTIONS

TO RELEASE PARKING BRAKE

Push NEUTRAL RETURN/BRAKE PEDAL down to release PARKING BRAKE.

TO ROLL MACHINE

Open Access Door located on rear panel of tractor and lift "UP" on ROLL RELEASE LEVER to roll machine. See Figure 9.

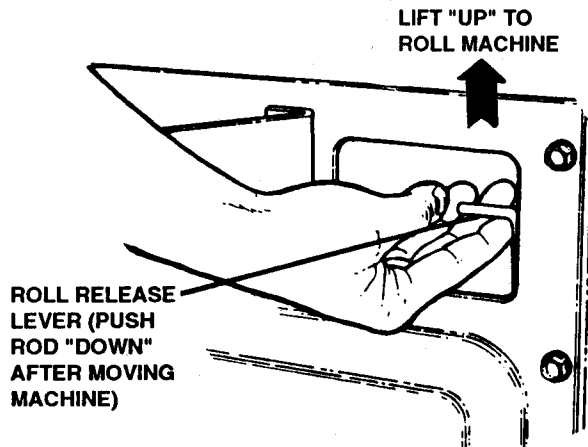


FIGURE 9

CAUTION!
DO NOT TOW MACHINE.

TO ADJUST OPERATOR'S SEAT

FRONT TO REAR ADJUSTMENT: With engine stopped, loosen the ADJUSTING KNOBS on seat support. Sit in Operator's seat and, while depressing the NEUTRAL RETURN/BRAKE PEDAL, slide the seat forward or rearward to the most comfortable position, then lock in position by tightening ADJUSTING KNOBS. See Figure 10.

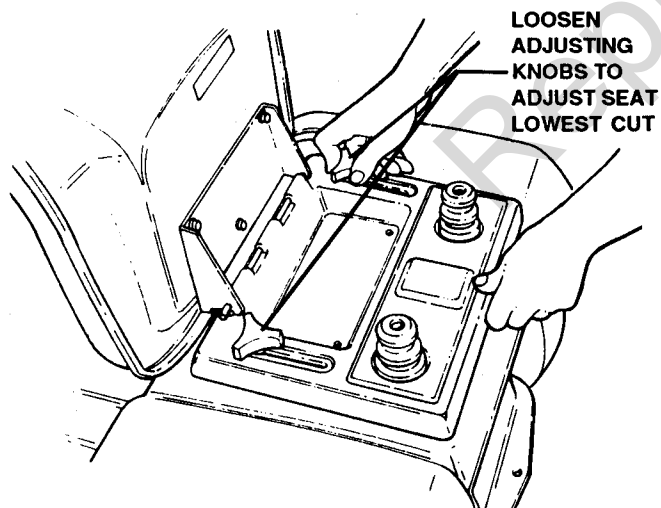


FIGURE 10

TO OPERATE MOWER

During transport or for clearance through gates it may become necessary to raise the DISCHARGE DEFLECTOR. Reinstall the wing nuts on the studs when the DEFLECTOR is raised so they will not be lost. Be sure to lower the DEFLECTOR and clamp it securely down with the wing nuts before mowing. See Figure 11.

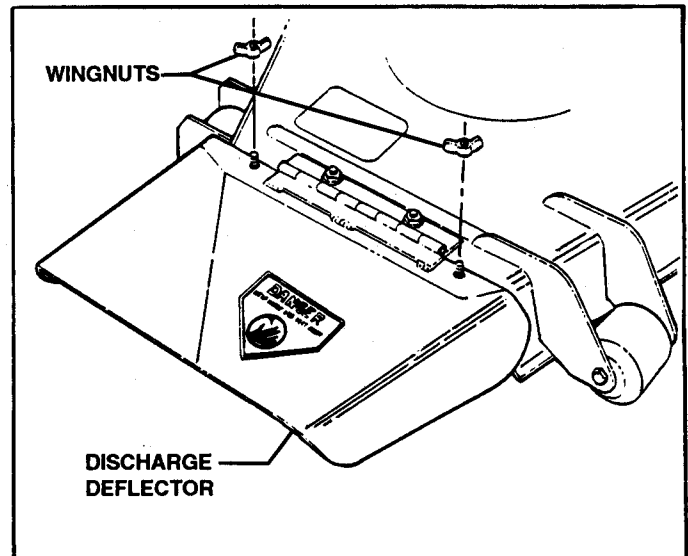


FIGURE 11

TO ADJUST CUTTING HEIGHT

The cutting height can be changed to any one of nine positions by raising or lowering the cutting deck attachment with the IMPLEMENT LIFT LEVER as shown in Figure 12.

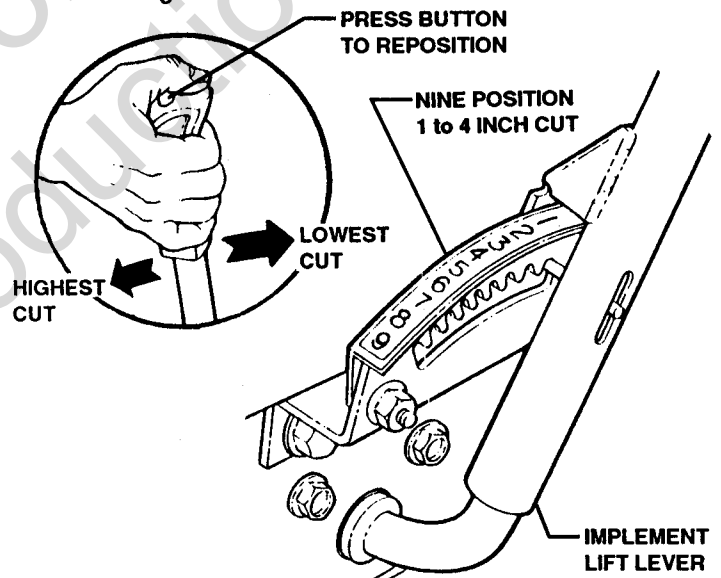


FIGURE 12

To suit mowing conditions, experiment by increasing engine speed and/or decreasing driving speed until smoothest cut is obtained without placing engine under heavy strain.

TO START MOWER BLADE

START MOWER BLADE by pulling BLADE CONTROL LEVER "UP" to "ON".

TO BE ABLE TO GET OFF MOWER AND LEAVE ENGINE RUNNING:

1. Push BRAKE all way down.
2. Set PARKING BRAKE.
3. Push BLADE CONTROL LEVER downward to "OFF" position.

SERVICE

To retain the quality of your tractor, use Genuine **SNAPPER** Replacement Parts only. Contact your local **SNAPPER** Dealer for parts and service assistance. For the correct part or information for your particular mower, always mention model and serial number. We recommend returning the tractor to an authorized **SNAPPER** Dealer on a yearly basis for inspection and addition of any new devices which might upgrade the safety of your mower. For the nearest **SNAPPER** Dealer, check the yellow pages under the heading **LAWN MOWERS**. For engine parts and service, look for the engine manufacturer's dealers under the heading **ENGINES - gasoline**.

DRAINING ENGINE OIL

NOTE

RAISE HOOD. (IT MAY BE MORE CONVENIENT TO REMOVE THE HOOD FOR EASIER ACCESS WHEN FILLING WITH OIL. SEE "HOOD REMOVAL", PAGE 12).

1. Disconnect spark plug wire.
2. Loosen oil drain cap. Place a flat container (2 qt. Min. Capacity) beneath oil drain.

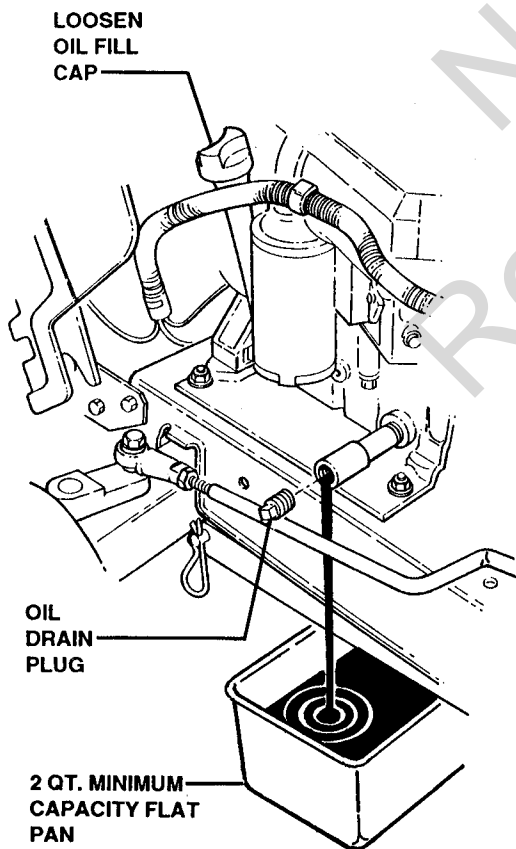


FIGURE 13

3. Reinstall oil cap, remove fill cap and refill crankcase with oil. Refer to the Engine Owner's Manual for engine oil specifications.

MAINTENANCE & LUBRICATION SCHEDULE

Refer to the Engine Owner's Manual for service specifications on the engine itself. The following applies primarily to the tractor and optional mower attachments. Clean fittings before greasing.

FIRST 5 HOURS (NEW UNIT)

- ENGINE: Change oil in crankcase. Refer to Engine Owner's Manual, and Draining Engine Oil instructions on this page.
- TRANSAXLE: Check oil level in transaxle. See Figure 14.
- TRACTOR: Check all fasteners and retighten as needed.

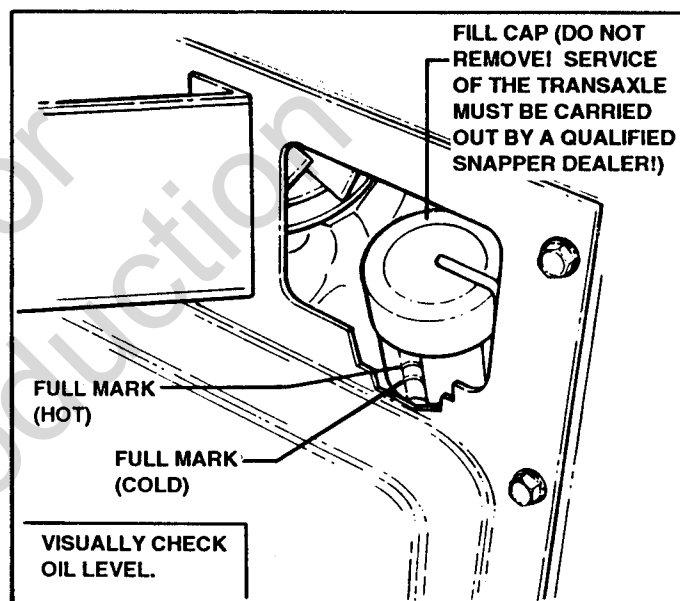


FIGURE 14

EVERY 25 OPERATING HOURS

- FRONT WHEEL BEARINGS: Lubricate bearings through the fitting on hub of each front wheel. See Figure 15.

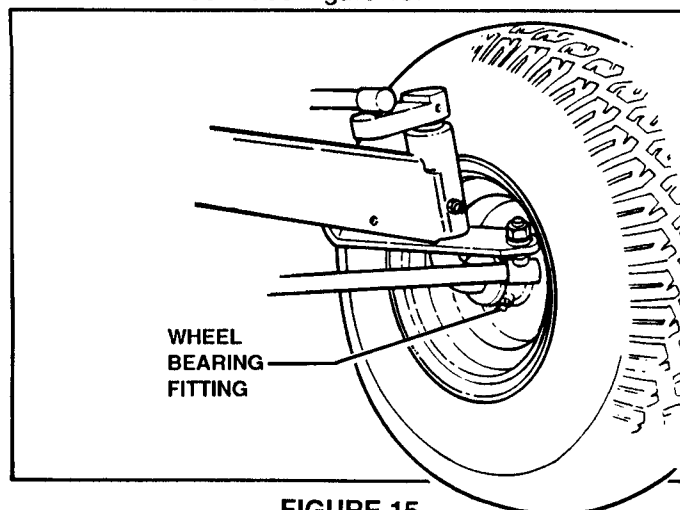


FIGURE 15

SERVICE (Continued)

- **FRONT AXLE PIVOT & SPINDLE BUSHINGS:** Lubricate the center pivot fitting on underside of the front axle and each spindle fitting located on front axle. See Figure 16.

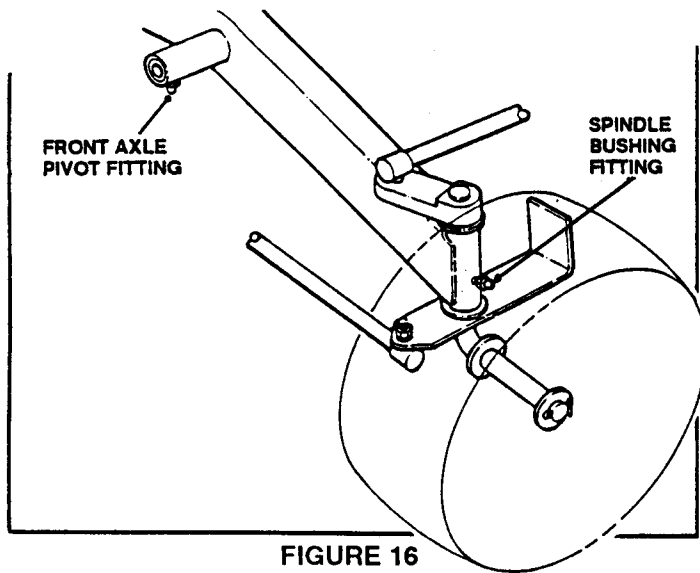


FIGURE 16

- **CHANGE OIL IN ENGINE CRANKCASE** with oil of weight and grade specified in Engine Owner's Manual.
- **ENGINE AIR CLEANER:** Refer to Engine Owner's Manual for details.

END OF EACH SEASON (OR EVERY 100 HOURS)

- **TRANSAXLE:** Remove rear panel or fender seat pan to gain access to transaxle. See Figure 17.
- **TO REMOVE REAR PANEL:**
 1. Remove six (6) screws.
 2. Remove REAR PANEL.
- **TO REMOVE FENDER SEAT PAN:**
 1. Remove shift handle.
 2. Disconnect wires to seat switch.
 3. Remove seat and seat mount.
 4. Remove four (4) top screws.
 5. Remove FENDER SEAT PAN from tractor.

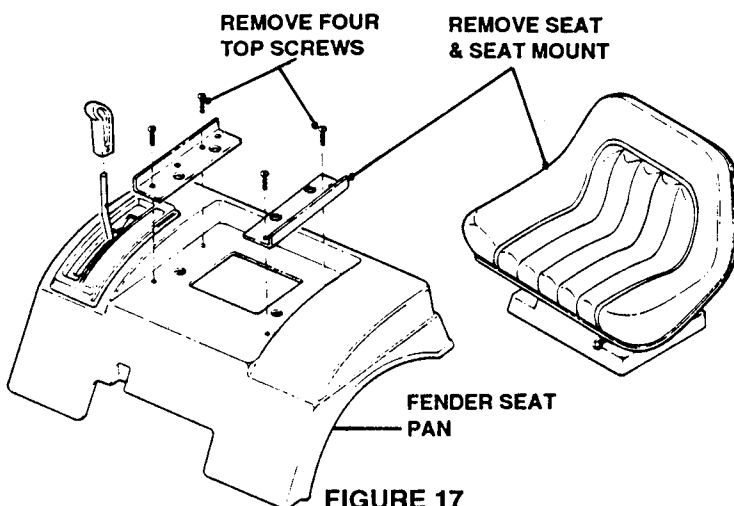


FIGURE 17

- **CLEAN** exterior of transaxle and check fluid level in oil reservoir as shown in Figure 14.
- **MOWER ATTACHMENT SPINDLE(S):** Lubricate fitting for **BLADE SPINDLE BEARINGS** with two shots only of bearing grease once each year.
- **SERVICE** Engine air cleaner element and spark plug.
- **SERVICE FUEL FILTER** as instructed below.

FUEL SYSTEM SERVICE

Check the in-line fuel filter at frequent intervals and replace before the screen becomes clogged with sediment. Make sure the replacement is correctly installed with the arrow on filter pointing toward the engine. Check the fuel system components frequently and replace any parts showing worn spots or cracks. See Figure 18.

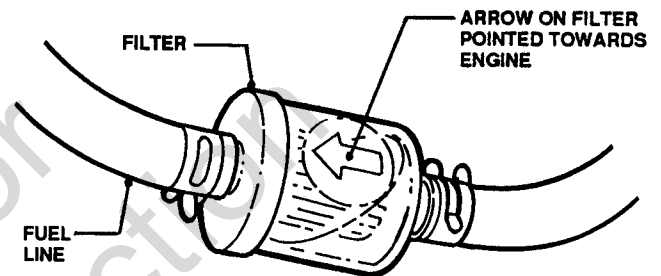


FIGURE 18

BATTERY SERVICE

Check the battery once each month. Remove the caps and add distilled water as necessary to bring the level of the electrolyte up to about 3/32" over plates in each cell. **DO NOT FILL TO THE RINGS.** Carefully reinstall battery caps. In freezing weather, charge the battery after adding water to thoroughly mix the water in the electrolyte. Keep the terminals and cables clean and tight and make sure the red boot (shown in Figure 6) remains in position over the positive (+) terminals. Always disconnect black cable from negative (-) terminal first and reconnect last!

BATTERY CHARGING

The engine is equipped with a flywheel alternator to charge the battery. If the tractor is not run regularly, connect the battery to a charger monthly to maintain the specific gravity at 1.250 or higher. If this reading falls below 1.175, the battery liquid may freeze when temperatures drop to around zero degrees F. To charge, connect per instructions furnished with charger. If time allows, slow charge at 1 amp for ten hours or as an alternate, fast charge at 3 amps for four hours. Observe all precautions while charging.

TO ADJUST TIRE PRESSURE

Check tire pressure at frequent intervals. A low tire on one side causes uneven mowing. Pressure in front tires should be maintained at 12 psi while rear tire pressure should be 10 psi.

SERVICE (Continued)

WHEEL BRAKE TEST & READJUSTMENT

1. Test the wheel braking action at frequent intervals to insure proper stopping in the event of possible emergencies. Normally, the mower should stop from top forward speed within approximately three feet after the NEUTRAL RETURN/BRAKE PEDAL has been fully depressed.
2. To adjust brake action:
Turn locknut on brake rod clockwise to make braking more responsive. Turn locknut counterclockwise if slower braking action is desired. See Figure 19.

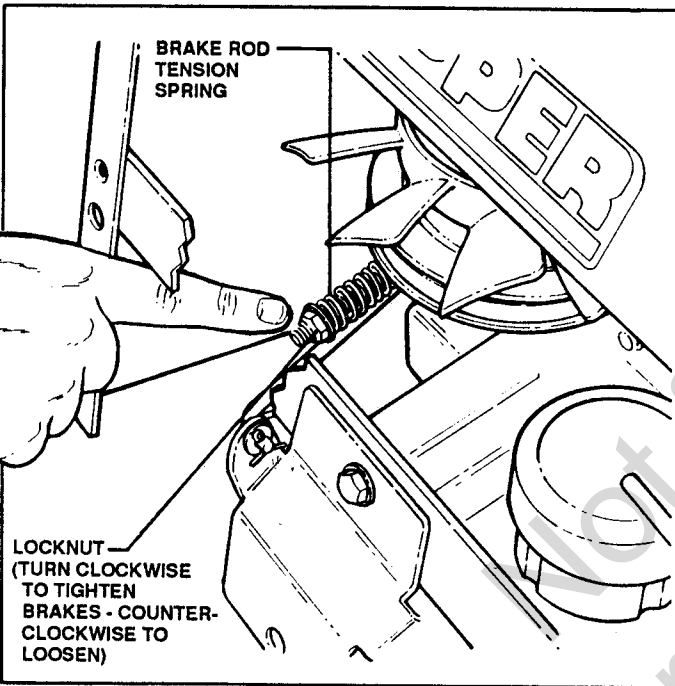


FIGURE 19

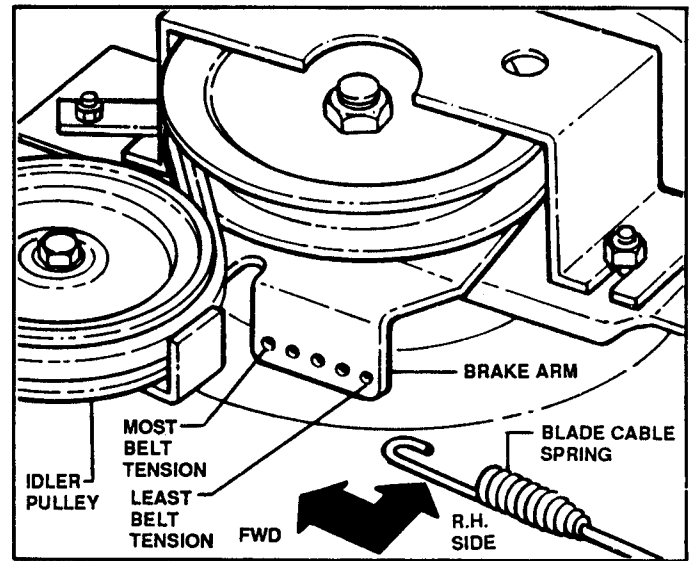


FIGURE 20

MOWER DRIVE BELT SERVICE

To install or replace the MOWER DRIVE BELT, follow Steps 1 thru 9.

1. Lower MOWER DECK to lowest position.
2. Loosen screw on slotted side of belt covers and swing covers away from pulleys.
3. Loosen pulley screw on stationary IDLER PULLEY until BELT RETAINER can be moved away from belt.
4. Loosen pulley screw on BRAKE ARM IDLER PULLEY until belt can be removed from between BELT RETAINER and PULLEY.
5. Remove old belt.
6. Route new belt around pulleys as shown in Figure 21.

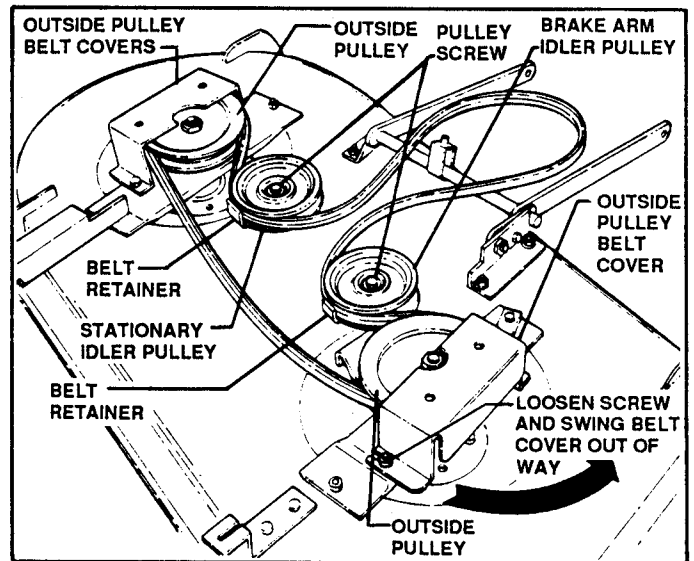


FIGURE 21

7. Retighten BRAKE ARM IDLER PULLEY screw.
8. Readjust BELT RETAINER on stationary IDLER PULLEY, then retighten pulley screw.
9. Reinstall belt covers on outside pulleys. Tighten retaining screw.

3. After adjusting locknut, retest braking action as described in Step 1.

MOWER DRIVE BELT ADJUSTMENT

Normally, within the first few hours of operation, the MOWER DRIVE BELT will seat into the pulleys and become slack. To regain correct belt tension, follow Steps 1 thru 5.

1. Lower MOWER DECK to lowest position.
2. Push BLADE CONTROL LEVER downward to "OFF" position.
3. Remove BLADE CABLE SPRING from hole in BRAKE ARM. Reattach spring in next hole forward. See Figure 20.
4. Pull BLADE CONTROL lever up to "ON" position, then check belt tension.
5. If belt is still too slack, move spring forward another hole until tension is correct.

SERVICE (Continued)

MOWER SERVICE & ADJUSTMENTS

Keep the topside of the mower free of grass cuttings. Buildup of clippings could cause belt problems and also might present potential fire hazard especially when dry. If uneven cutting is noted, check the tire pressure first as this is the most common cause. If tire pressure is correct and uneven cutting persists, move the tractor to a flat level surface, such as a garage floor, and check the deck level. (See "LEVELING MOWER", Page 12). To prolong the life and efficiency of your mower, keep the underside of deck clean and free of accumulated grass clippings by washing it down with a hose and/or scraping with a wire brush and scraper. Make sure this is done at the end of the cutting season before placing the mower in storage.

BLADE BRAKE ADJUSTMENT

The BLADE BRAKE assembly is designed to stop blade rotation within 3 seconds after the BLADE CONTROL LEVER has been pushed downward to "OFF". Should the blades not stop within 3 seconds, the BLADE BRAKE must be adjusted as follows:

1. Lower deck to lowest position.
2. Push BLADE CONTROL lever downward to "OFF" position.
3. Loosen retaining nut on R.H. OUTSIDE PULLEY BELT COVER and swing cover out of way.
4. Inspect BRAKE BAND closely to determine approximate amount of adjustment required.
5. Tighten BRAKE BAND by loosening jam nut and turning T-nut on end of eyebolt, clockwise 1 to 2 turns, or until BRAKE BAND tightens. Make sure flanged lip on T-nut is positioned vertically to fit over top edge of anchor. See Figure 22.

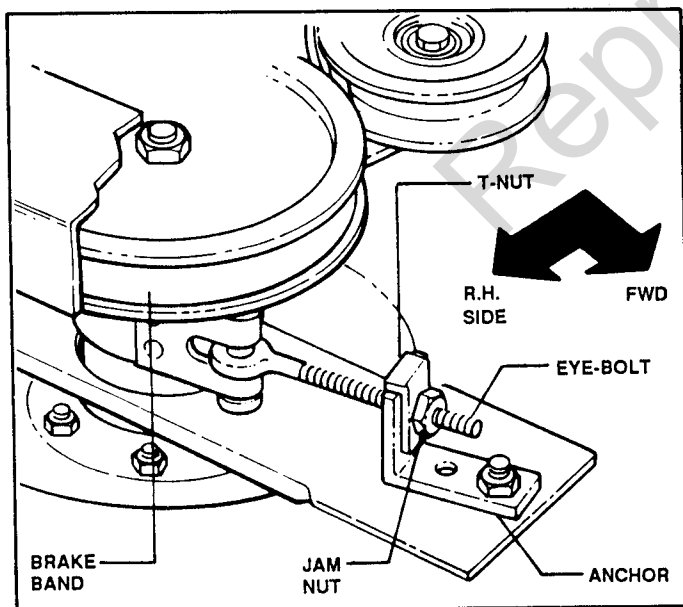


FIGURE 22

NOTE

MAKE SURE THAT BRAKE BAND DOES NOT DRAG AFTER ADJUSTMENT.

6. After adjusting BLADE BRAKE, start mower, engage blade and then disengage blade to check stopping time. Readjust if necessary.

CUTTING BLADE SERVICE

Check at frequent intervals to make sure the blade is securely tightened and that it is in good condition. Replace blade if badly chipped, bent, out of balance, or as soon as notch starts wearing in the tip between the flat surface and upturned lift as depicted in Figure 23. This type wear pattern occurs more rapidly under sandy soil conditions.

CAUTION

NEVER OPERATE THE MOWER WITH BLADE WORN TO THE EXTENT SHOWN IN VIEW C AS THE TIP COULD FLY OFF CAUSING PERSONAL INJURY OR PROPERTY DAMAGE.

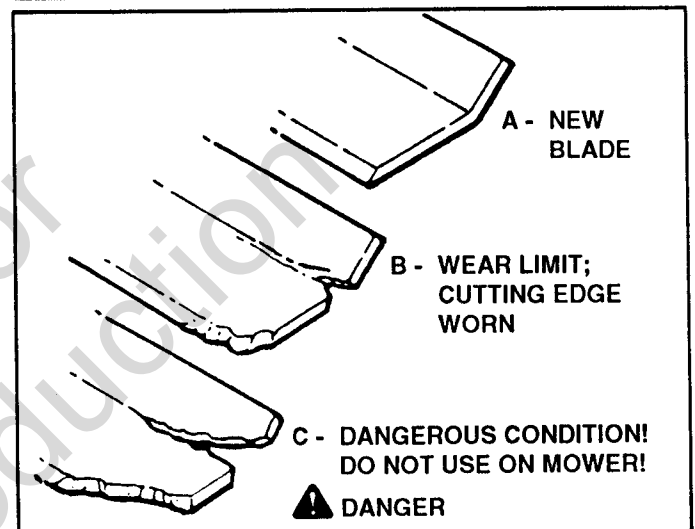


FIGURE 23

Sharpen blade when the cutting edges become dull if the blade is in otherwise good condition. When dull, the cut grass ends will be ragged and usually turn brown soon after mowing. For best results, remove the blade and sharpen it on a grinding wheel at an angle of 22 to 28 degrees. The cutting surface should extend in about 2 1/2" from the tips. Check the blade after sharpening to determine that it is still balanced. It will cause excessive vibration if unbalanced. See Figure 24.

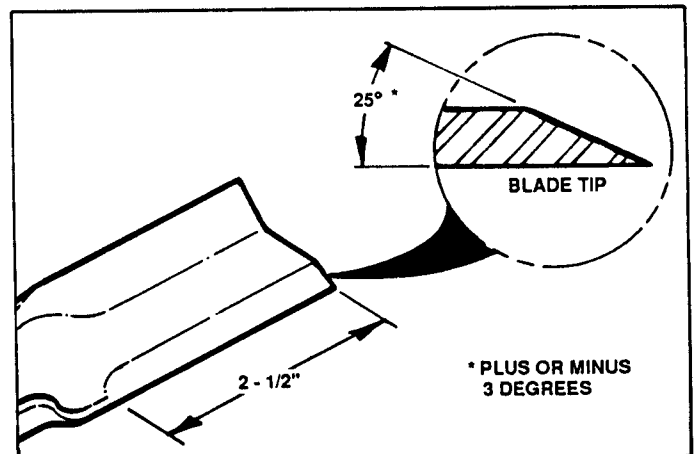


FIGURE 24

SERVICE (Continued)

CAUTION!

AVOID CUTTING YOURSELF ON CUTTING BLADE! PROTECT YOUR HANDS FROM CUTS WHILE HANDLING BLADE - WEAR GLOVES!

Install sharpened or replacement blade with components in same sequence as removed. Make sure that the flange on each side of blade fits over the edge of the BLADE BAR when installing. Do not substitute any components here. Tighten the blade retaining capscrews to 20-30 foot pounds torque value. See Figure 25.

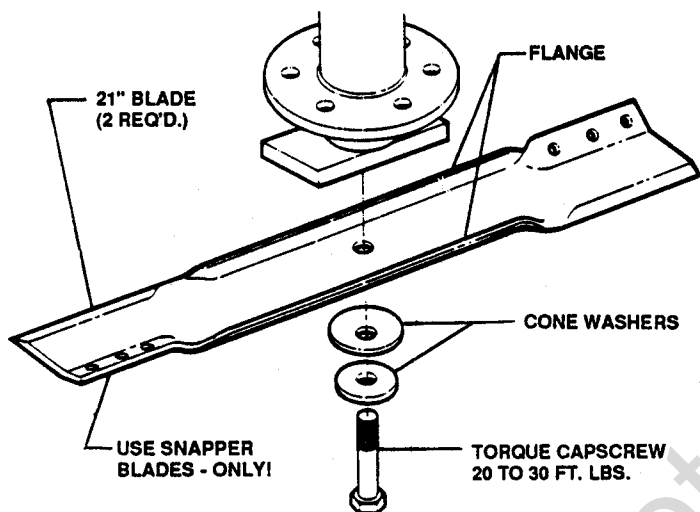


FIGURE 25

REMOVING & INSTALLING MOWER

The mower is attached to the tractor and leveled at the factory. If the mower is to be removed for cutting blade service, or to install another attachment, be sure that the mower settings remain unchanged.

TO REMOVE MOWER:

1. Lower deck to lowest position.
2. Remove hairpin from FRONT LIFT BRACKET CABLE clevis pin. See Figure 26.

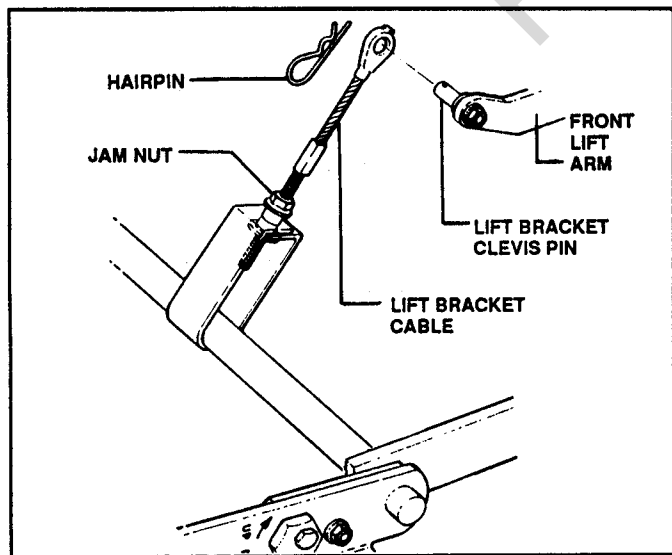


FIGURE 26

3. Remove hairpins and washers from REAR LIFT ARM CABLES. See Figure 27.

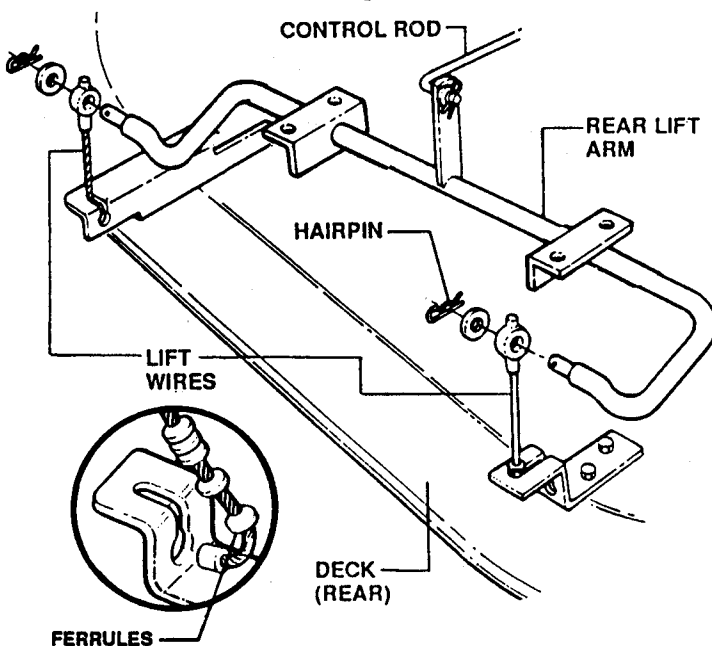


FIGURE 27

4. Remove hairpins and clevis pins from FRONT LIFT ARMS. See Figure 28.

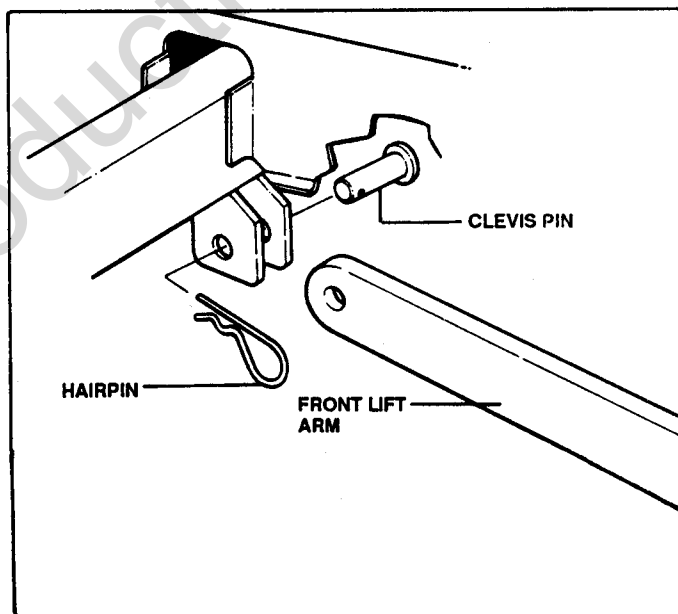


FIGURE 28

5. After deck has been lowered to ground, turn tractor's front wheels to the left and slide the mower out from the right side. Reverse Steps 1 thru 5 to reinstall mower.

HOOD REMOVAL

1. Tilt hood forward.
2. Remove hood cable clip from engine. See Figure 29.
3. Lift hood off pins.
4. Reinstall hood in reverse order.

SERVICE (Continued)

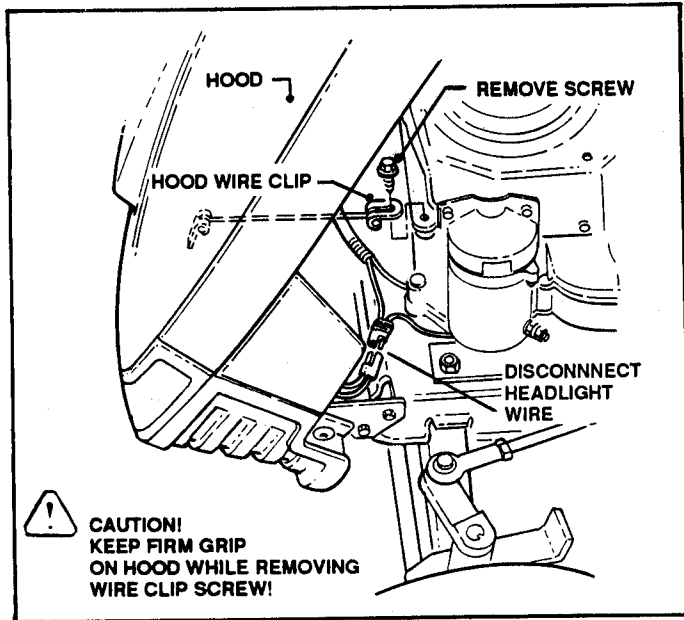


FIGURE 29

ADJUSTING STEERING

If steering develops excessive free-play, then the ECCENTRIC STEERING BOLT must be adjusted. Proceed as follows:

1. Working from the left side of the tractor, use a 7/16" wrench to loosen nut on top of carriage bolt. See Figure 30.
2. Push eccentric clockwise (towards R.H. side of tractor) until free-play in steering wheel is minimized.
3. Retighten nut.

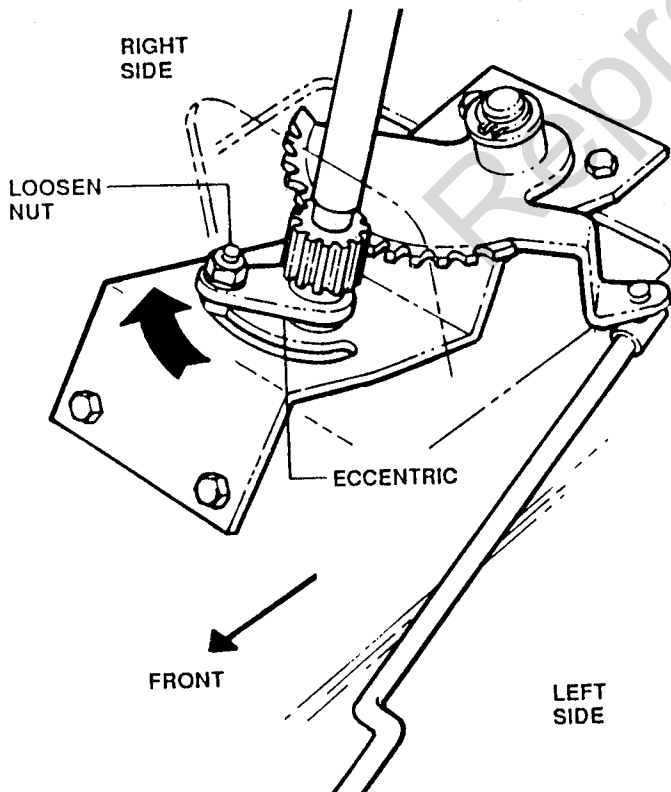


FIGURE 30

LEVELING MOWER

With the blade sharpened and properly aligned, a level mower deck will insure a clean, even cut. The mower should be checked for levelness as follows:

1. Check the air pressure in the tires and correct pressure as needed (12 psi front and 10 psi rear tires).
2. Move the tractor to a smooth, flat and level area such as garage floor.
3. Move the lift lever to #5 notch.
4. Place a 2 x 4 block on edge under the front lip of the deck in the exact center between the front lift arms. See Figure 32 on Page 13.
5. Loosen the jam nut on the front lift cable and adjust until the front lip of the deck rests on the 2 x 4 block and the cable is tight. Tighten the cable jam nut and remove the block. See Figure 26 on Page 11.
6. Place a 3" high block under the exact center of the rear lip of the deck.
7. Pull the hairpins and remove the cables from the rear lift arms.
8. Turn both blades perpendicular to tractor frame. The leading blade should have one "tip" near the center of left side deck lip. One "tip" on trailing blade should face the discharge chute.
9. Loosen nuts on eccentric bolt and pivot bolt and level the deck side to side by turning the eccentric adjusting bolt (see Figure 31). The distance from floor to each blade tip should be within 1/8" of each other.
10. Adjust LIFT CABLE FERRULES in REAR LIFT BRACKETS until CABLES just slide over the rear arm pins. Reinstall flat washers and hairpins. Recheck level. See Figures 27 & 32.

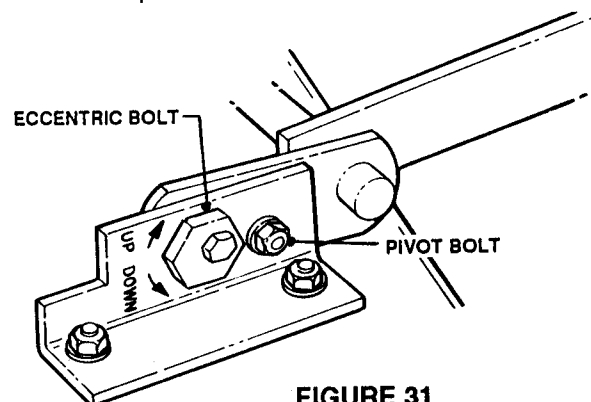


FIGURE 31

(Continued on next Page)

SERVICE (Continued)

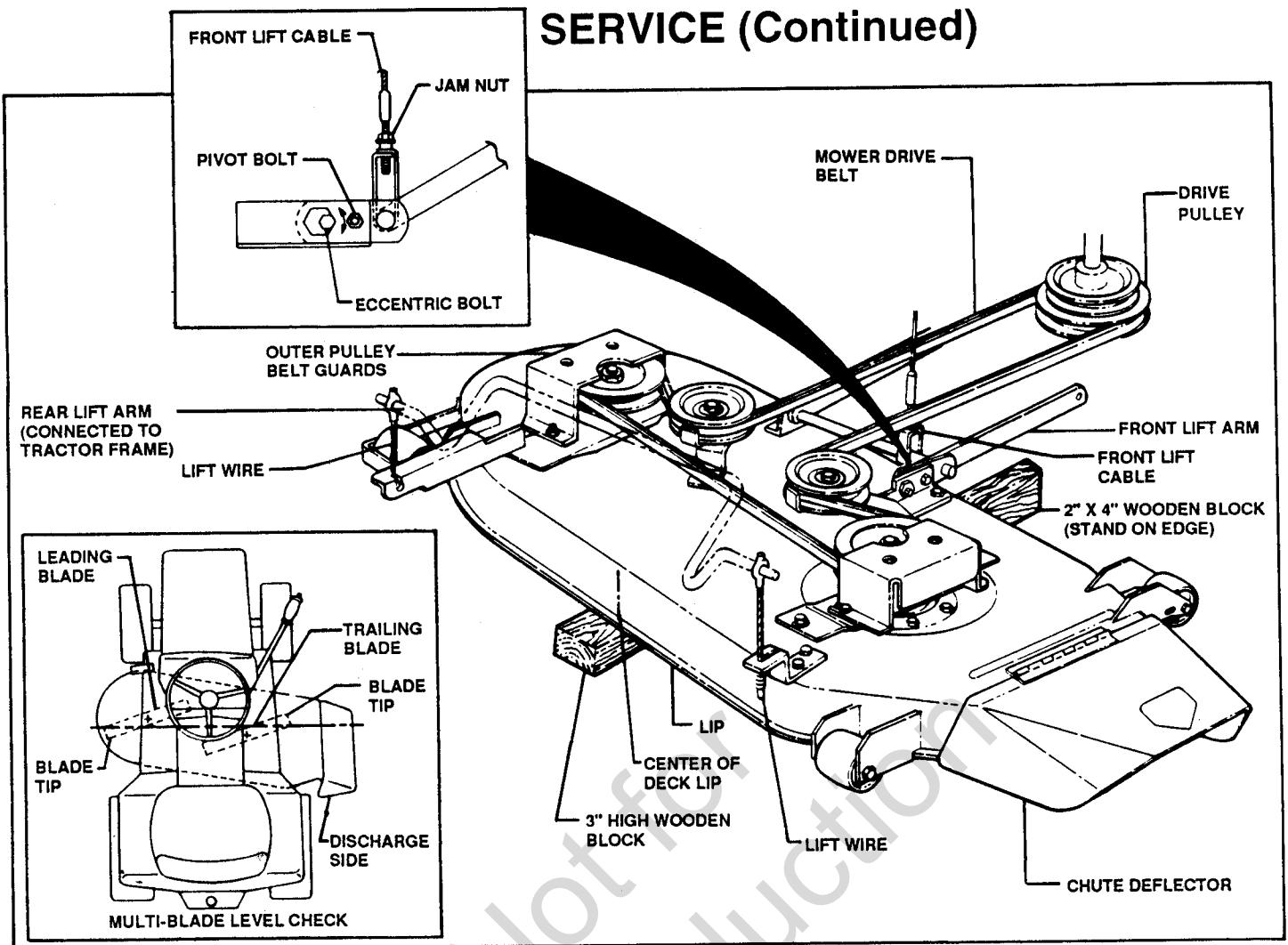


FIGURE 32

DRIVE BELT SERVICE

To remove DRIVE BELT, follow BELT REMOVAL, Steps 1 thru 9.

To install DRIVE BELT, follow BELT INSTALLATION, Steps 1 thru 9.

BELT REMOVAL

1. Raise mower hood and disconnect spark plug wire.
2. Lower MOWER DECK to lowest position.
3. Remove REAR COVER PLATE. See Figure 33.

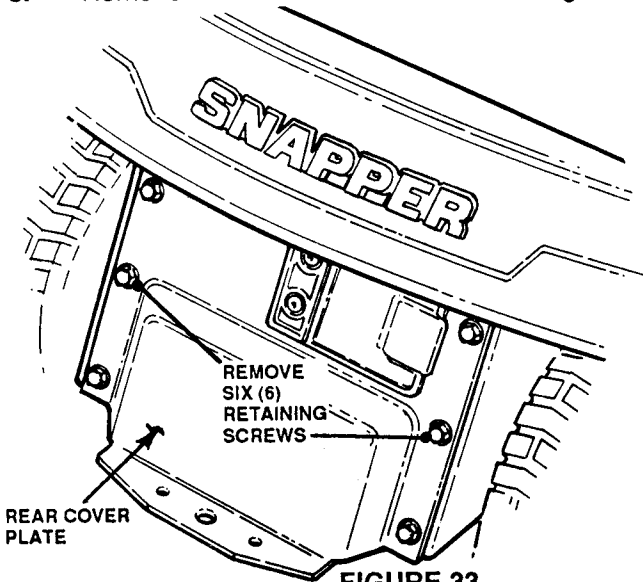


FIGURE 33

4. Depress NEUTRAL RETURN/BRAKE PEDAL and lock into position by pulling PARKING BRAKE LEVER "UP".
5. Remove MOWER DECK BELT from bottom pulley of engine. See Figure 34.

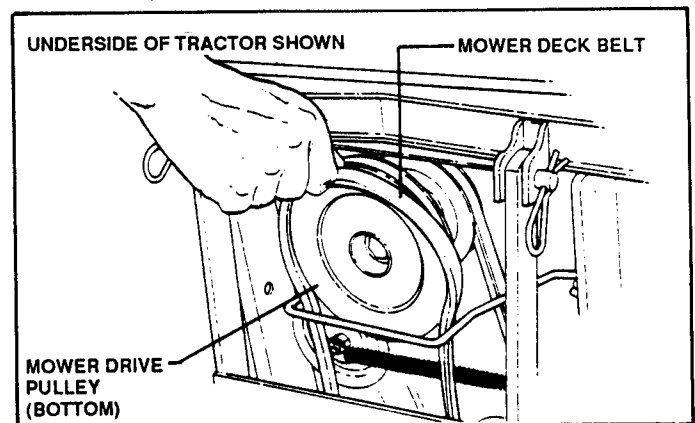


FIGURE 34

NOTE

ALTHOUGH IT IS POSSIBLE TO REMOVE AND REPLACE THE DRIVE BELT WITH THE MOWER DECK ATTACHED, IT IS RECOMMENDED THAT THE DECK BE REMOVED TO MAKE BELT INSTALLATION EASIER. SEE "REMOVING & INSTALLING MOWER", PAGE 11.

SERVICE (Continued)

6. Disconnect IDLER SPRING. See Figure 35.

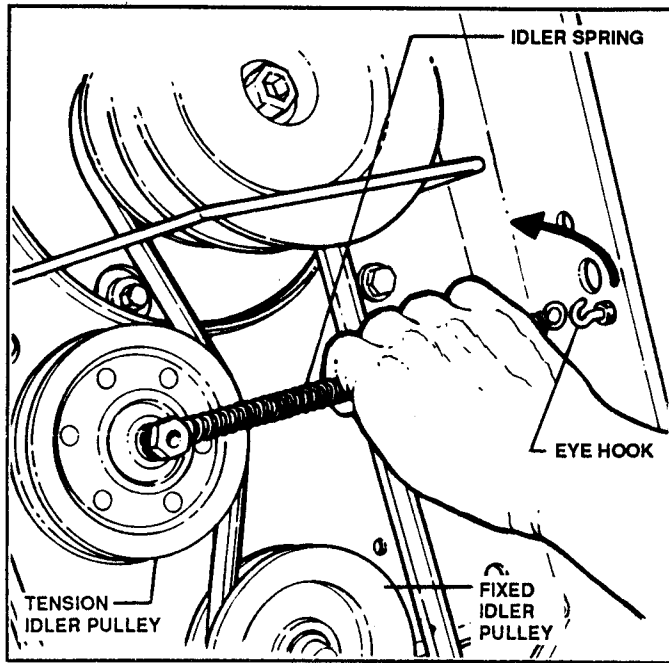


FIGURE 35

CAUTION
THE IDLER SPRING IS UNDER TENSION. TO AVOID INJURY, USE CARE WHEN DISCONNECTING SPRING FROM EYE HOOK.

7. Remove hairpin from front of CONTROL ROD, then lower CONTROL ROD. See Figure 36.

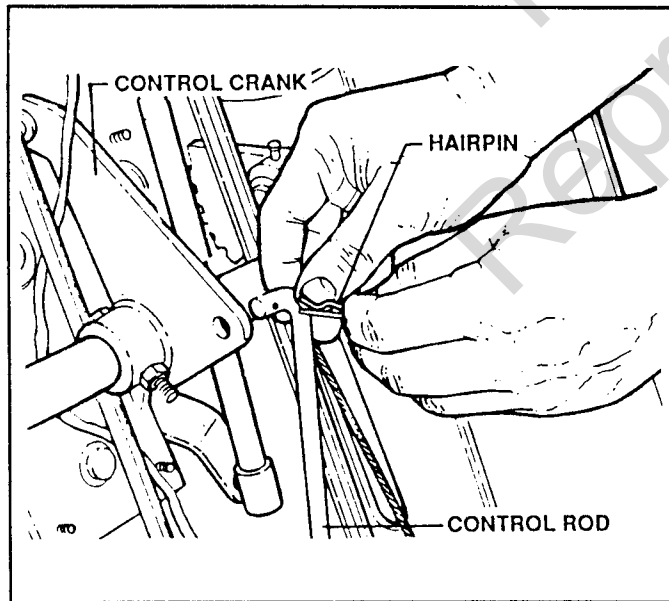


FIGURE 36

8. Remove DRIVE BELT from engine pulley by rotating MOWER DRIVE PULLEY and pulling down on DRIVE BELT at same time. See Figure 37.

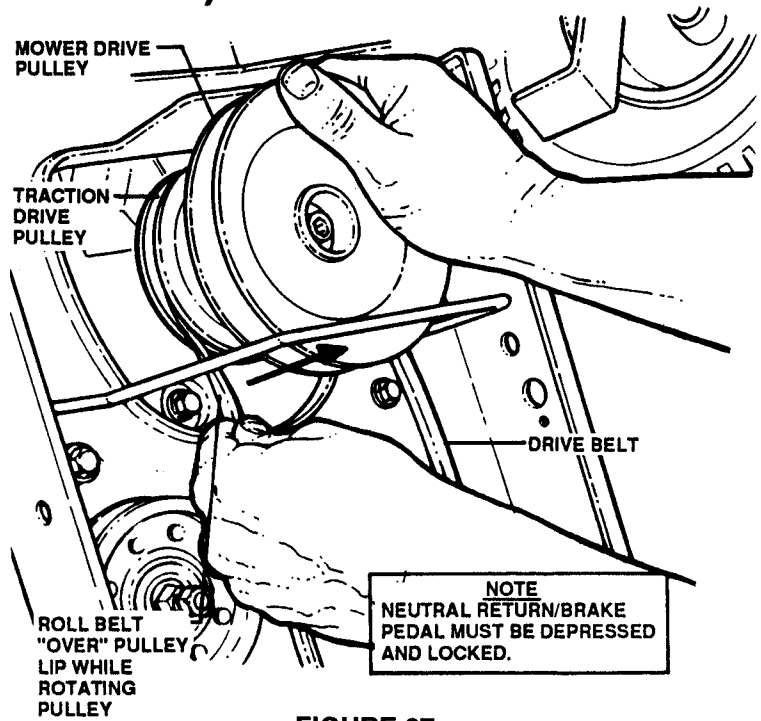
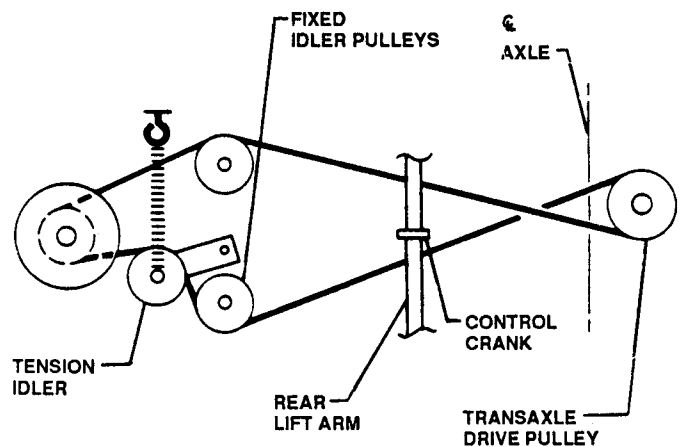


FIGURE 37

9. Working at the rear of the tractor, pull DRIVE BELT back until it can be removed from TRANSAXLE PULLEY and over top of cooling fan.

BELT INSTALLATION

1. Place DRIVE BELT around TRACTION DRIVE PULLEY (top pulley on engine shaft).
2. Route belt around outside of FIXED IDLER PULLEYS and inside of TENSION IDLER PULLEY.
3. Place belt over CONTROL CRANK and between rear lift arm and tractor frame. See Figure 38 "DRIVE BELT ROUTING".



**DRIVE BELT ROUTING
(VIEWED FROM UNDERNEATH TRACTOR)**

FIGURE 38

(Continued on next Page)

SERVICE (Continued)

- Reaching in from rear of tractor, grab belt under-handed and twist belt 180° to the left (counterclockwise). See Figure 39.

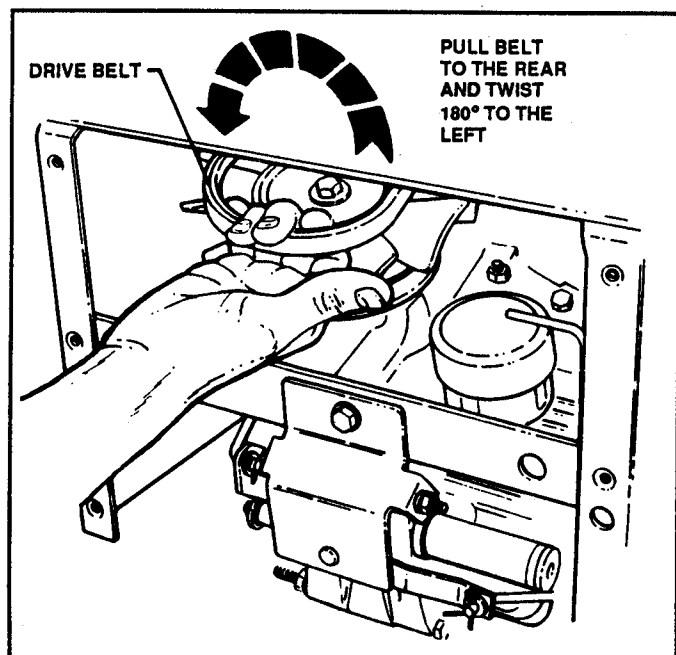
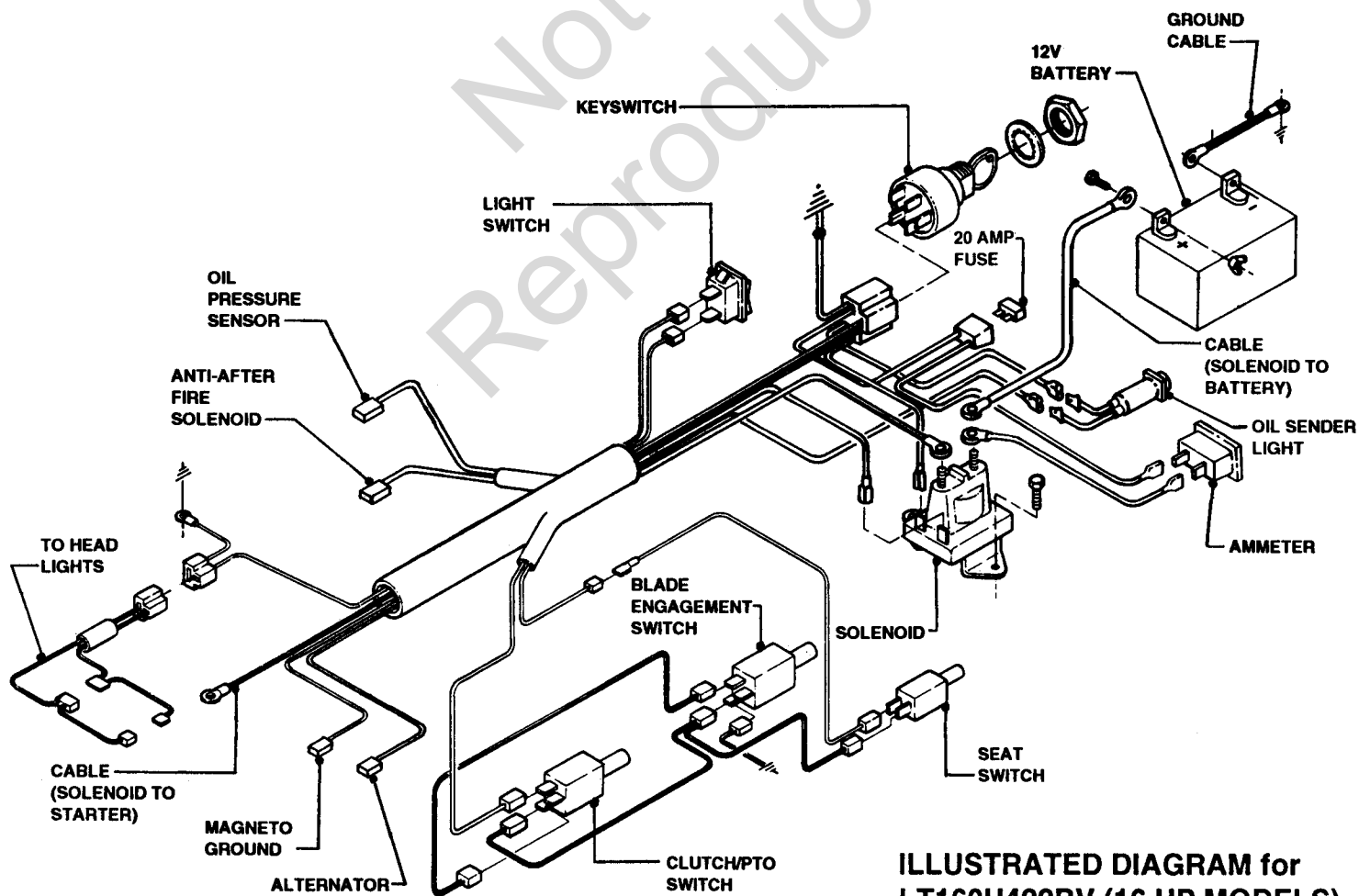


FIGURE 39

CAUTION
MAKE SURE THE BELT BEING INSTALLED IS ABOVE REAR LIFT ARM.

- Place DRIVE BELT over top of fan and onto TRANSAXLE PULLEY.
- Rehook TENSION IDLER SPRING to eye hook on frame.
- Reinstall CONTROL ROD on control crank.
- Reinstall MOWER DECK (if removed).
- Reinstall REAR COVER PLATE.



ILLUSTRATED DIAGRAM for
LT160H422BV (16 HP MODELS)

SNAPPER® **LT160H422BV SERIES 2** **HYDRO LAWN TRACTORS**

GENERAL SPECIFICATIONS

DRIVE TRAIN

Hydrostatic Transaxle System Variable Speed Control.

Brakes: Disc

TIRES

Front: 15 x 6.00 - 6

Rear: 20 x 10.00 - 8

Approximate Weight: 490 Lbs.

ENGINE

Refer to Engine Manufacturer's Manual for Specifications

ELECTRICAL SYSTEM

Starter: 12 Volt Gear Drive

Ignition: Electronic

FUEL SYSTEM

Fuel Capacity: 9 U.S. Quarts (2 1/4 U.S. Gallons)

Air Cleaner: Paper Filter Cartridge

SNAPPER®

2 YEAR LIMITED WARRANTY

For **two (2) years** from purchase date for the original purchaser's **residential**, non-commercial use, **SNAPPER**, 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.

For **ninety (90) days** from purchase date for the original purchaser's **commercial**, rental, or other non-residential use, **SNAPPER**, 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 costs incurred by the purchaser in submitting material to a **SNAPPER** dealer for replacement under this warranty must be paid by the purchaser.

This warranty does not apply to engines and their components, or, Peerless® Transaxles, as these items are warranted separately by their manufacturers. 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, McDONOUGH, GEORGIA 30253

SNAPPER® **McDonough, GA., 30253 U.S.A.**