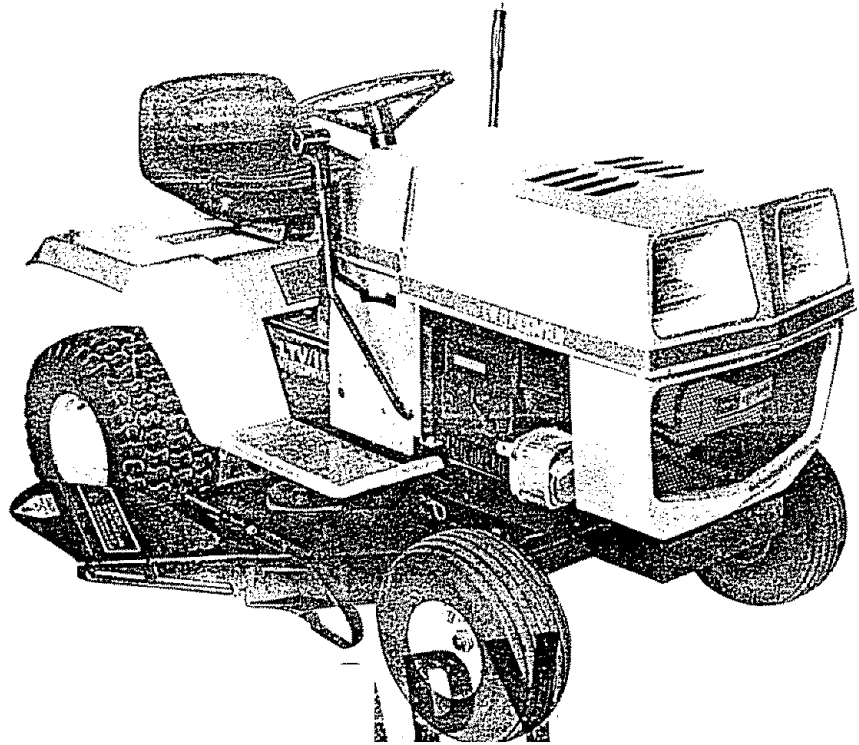


**Sears**

**OWNERS  
MANUAL**

MODEL NO.  
917.252641

**Caution:**  
Read Rules for  
Safe Operation  
and Instructions  
Carefully



**LAWN TRACTOR**

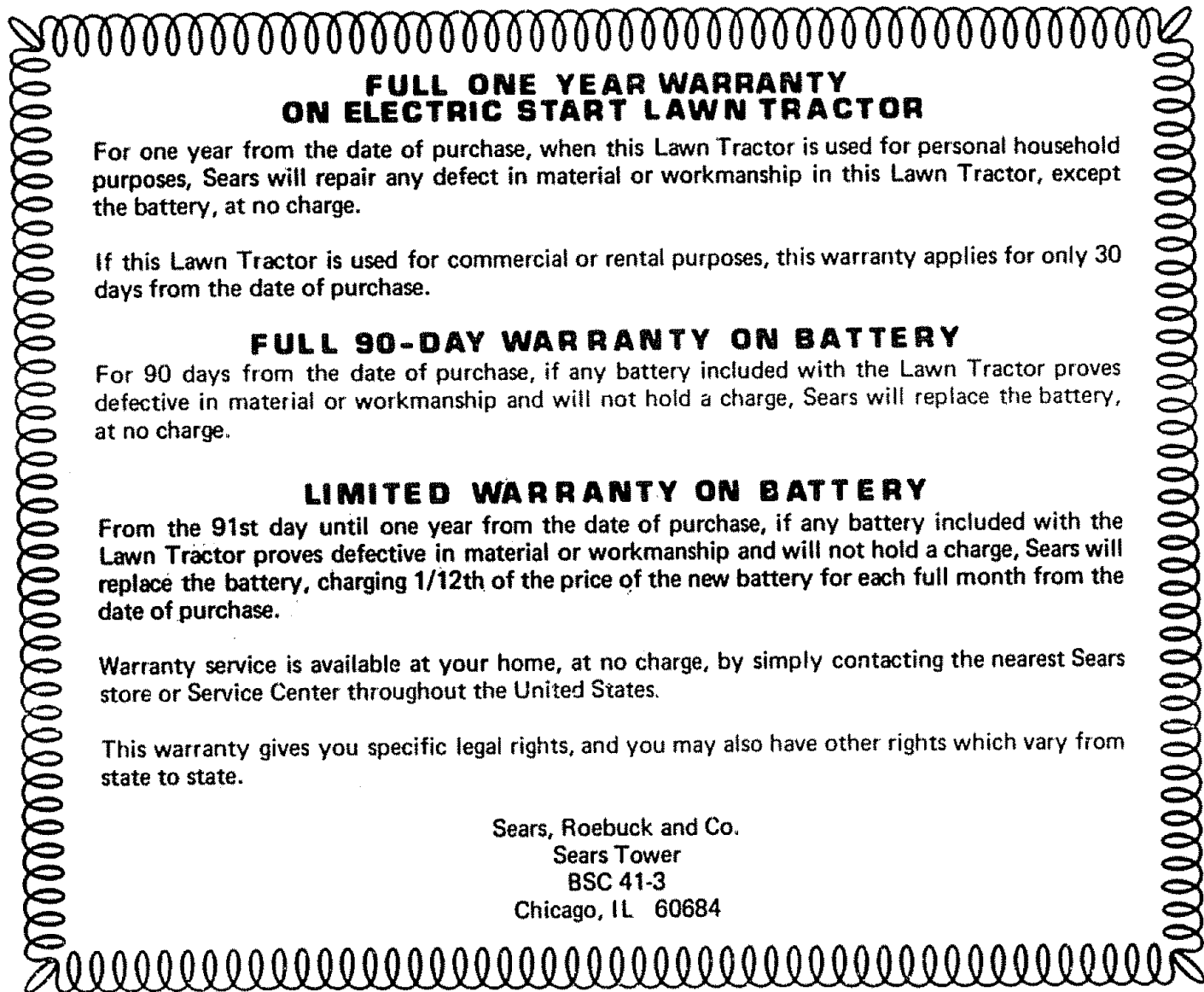
Assembly  
Installation  
Operation  
Repair Parts

MODEL  
NUMBER \_\_\_\_\_  
SERIAL  
NUMBER \_\_\_\_\_  
THE MODEL AND SERIAL NUMBERS  
WILL BE FOUND ON THE MODEL  
PLATE ATTACHED TO THE DRAW-  
BAR. (REFER TO PAGE 24).

YOU SHOULD RECORD BOTH MODEL  
AND SERIAL NUMBERS AND KEEP  
IN A SAFE PLACE FOR FUTURE  
REFERENCE.

CONGRATULATIONS on your purchase of a Sears Lawn Tractor. 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, Roebuck and Co. Store. They 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, operate and maintain your Tractor properly. Always observe the "RULES FOR SAFE OPERATION".



**FULL ONE YEAR WARRANTY  
ON ELECTRIC START LAWN TRACTOR**

For one year from the date of purchase, when this Lawn Tractor is used for personal household purposes, Sears will repair any defect in material or workmanship in this Lawn Tractor, except the battery, at no charge.

If this Lawn Tractor is used for commercial or rental purposes, this warranty applies for only 30 days from the date of purchase.

**FULL 90-DAY WARRANTY ON BATTERY**

For 90 days from the date of purchase, if any battery included with the Lawn Tractor proves defective in material or workmanship and will not hold a charge, Sears will replace the battery, at no charge.

**LIMITED WARRANTY ON BATTERY**

From the 91st day until one year from the date of purchase, if any battery included with the Lawn Tractor proves defective in material or workmanship and will not hold a charge, Sears will replace the battery, charging 1/12th of the price of the new battery for each full month from the date of purchase.

Warranty service is available at your home, at no charge, by simply contacting the nearest Sears store or Service Center throughout the United States.

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

Sears, Roebuck and Co.  
Sears Tower  
BSC 41-3  
Chicago, IL 60684

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## RULES FOR SAFE OPERATION

**WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See your Sears Authorized Service Center for spark arrester kit part number 677S8.

1. Know the controls and how to stop quickly. **READ THE OWNER'S MANUAL.**
2. Do not allow children to operate the vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
5. Keep your eyes and mind on your tractor, mower and the area being cut. Don't let other interests distract you.
6. Do not attempt to operate your tractor or mower when not in drivers seat.
7. Always get on or off your tractor from the operators left hand side.
8. Clear the work area of objects which might be picked up and thrown.
9. Disengage all attachment clutches and shift into neutral before attempting to start the engine.
10. Disengage power to attachments and stop the engine before leaving the operator's position.
11. Disengage power to mower, stop the engine and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment or repairs.
12. Disengage power to attachments when transporting or not in use.
13. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachments, shifting into neutral, setting the parking brake, stopping the engine, and removing the key.
14. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°); never across the face.
15. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
16. While going up or down slopes choose 1st gear to negotiate the slope without stopping. To reduce speed, move Vari-drive Control toward slow position
17. Never mow in wet or slippery grass. when traction is unsure or at a speed which could cause a skid.
18. Stay alert for holes in the terrain and other hidden hazards.
19. Do not drive too close to creeks, ditches and public highways.
20. Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign object.
21. Never shift gears until tractor comes to a stop.
22. Never place hands or feet under the mower, in the deflector (discharge chute) or near any moving parts while tractor or mower are running. Always keep clear of discharge chute
23. Use care when pulling loads or using heavy equipment.
  - a. Use only approved drawbar hitch points.
  - b. Limit loads to those you can safely control.
  - c. Do not turn sharply. Use care when backing.
  - d. Use counterweight or wheel weights when suggested in this owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
26. Handle gasoline with care - it is highly flammable.
  - a. Use approved gasoline containers.
  - b. Never remove the cap of the fuel tank or add gasoline to a running or hot engine, or fill the fuel tank indoors. Wipe up spilled gasoline.
  - c. Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine indoors.
27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place.
28. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
29. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
30. To reduce fire hazard, keep the engine free of grass, leaves or excessive grease.
31. Except for adjustment; **DO NOT** operate Engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such part could create a fire hazard.
32. **DO NOT OPERATE WITHOUT A MUFFLER OR TAMPER WITH THE EXHAUST SYSTEM.** Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.
33. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
34. Do not change the engine governor settings or overspeed the engine.
35. When using the vehicle with mower, proceed as follows:
  - a. Mow only in daylight or in good artificial light.
  - b. Never make a cutting height adjustment while the engine is running if the operator must dismount to do so.
  - c. Shut the engine off when removing the grass catcher or unclogging chute.
  - d. Check the blade mounting bolts for proper tightness at frequent intervals.
36. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
37. Do not operate the Mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.
38. Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.



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

**CAUTION: DO NOT OPERATE VARIDRIVE CONTROL (FIG. 9) UNLESS ENGINE IS RUNNING. TRANSAXLE DAMAGE MAY RESULT.**

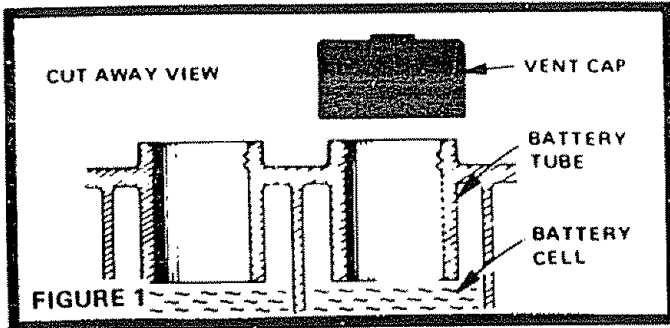


FIGURE 1

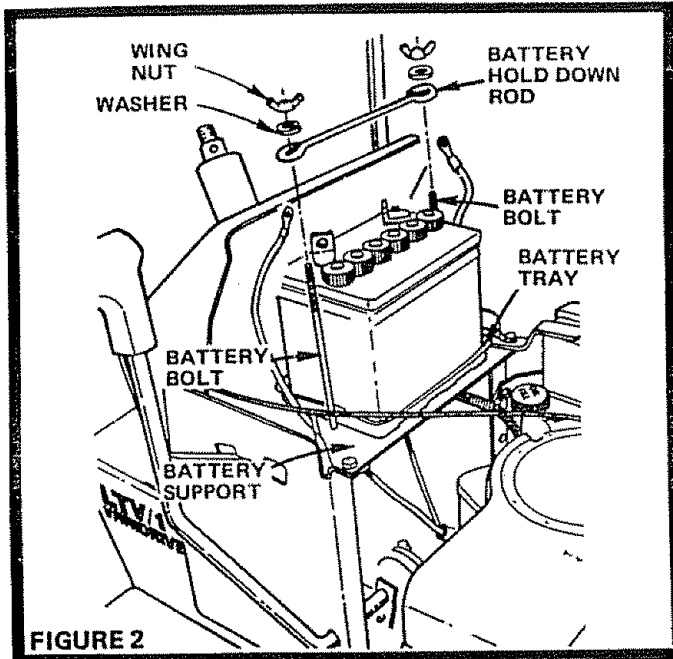


FIGURE 2

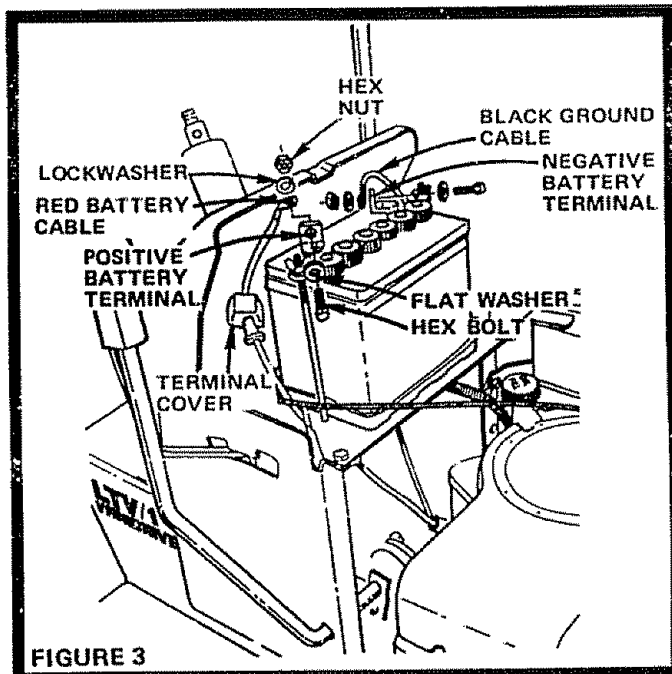


FIGURE 3

To assemble your Tractor you will need:

one 3/4" socket wrench and two 7/16" wrenches

NOTE: RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON THE TRACTOR.

## ASSEMBLY

1. Remove Shipping Strap Banding, Battery, Steering Wheel and Bag of Parts.
2. Fill and charge Battery (BEFORE INSTALLING ON TRACTOR).



**WEAR EYE AND FACE SHIELD.**

- a. Battery Electrolyte: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY.
- b. Fill Battery with electrolyte to bottoms of tubes in cells (Fig. 1). NOTE: DO NOT OVERFILL. (OVERFILLING WILL RESULT IN DAMAGE TO TRACTOR).



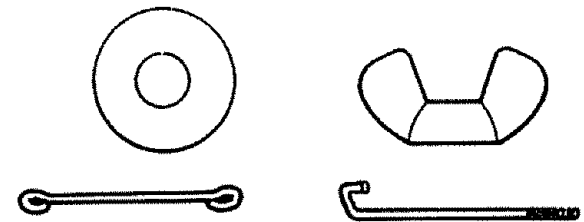
**WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH ELECTROLYTE.**

- c. Check level of electrolyte after 30 minutes. Add additional electrolyte if necessary. NOTE: TIGHTEN CAPS SECURELY.
- d. Charge Battery at a rate not exceeding three amperes for about two and one half hours.



**DO NOT SMOKE. FUMES FROM CHARGED ELECTROLYTE ARE EXPLOSIVE.**

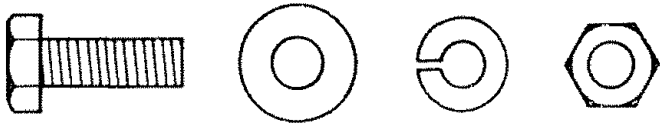
- e. Neutralize excess electrolyte for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
3. Install Battery using: two Flat Washers, two Wing Nuts (shown full size below) and



two Battery Bolts and Battery Hold Down Rod found in Bag of Parts.

- a. Remove tape from plastic Battery Tray. Hook one Battery Bolt into slot in the one side of the Battery Support (Fig. 2).
- b. Place Battery in Battery Tray (Battery Terminals to inside) (Fig. 3).
- c. Fasten Battery to installed Battery Bolt with the Battery Hold Down Rod, Washer and Wing Nut (Fig. 2).
- d. Hook remaining Battery Bolt to other side of Battery Support and fasten Battery Hold Down Rod to it with remaining Flat Washer, and Wing Nut. Tighten Wing Nuts securely by hand (Fig. 3).

- 4 Connect Battery Cables using: two Hex Bolts, two Flat Washers, two Lockwashers and two Hex Nuts (shown full size below) and a Terminal Cover found in Bag of Parts



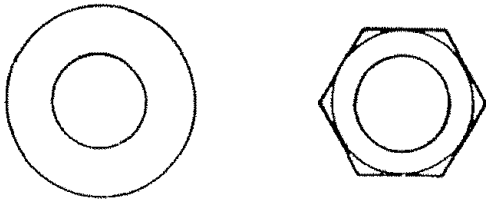
- a. Position Terminal Cover over RED Battery Cable (Fig 4).



**POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.**

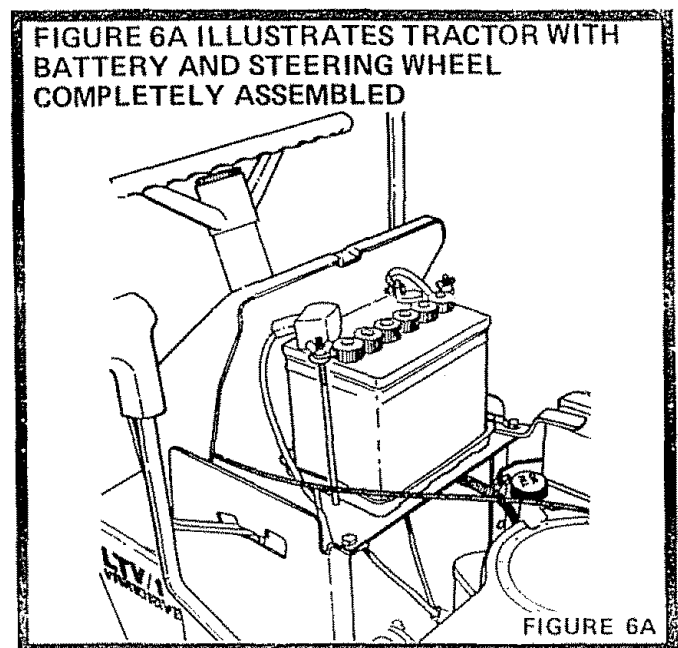
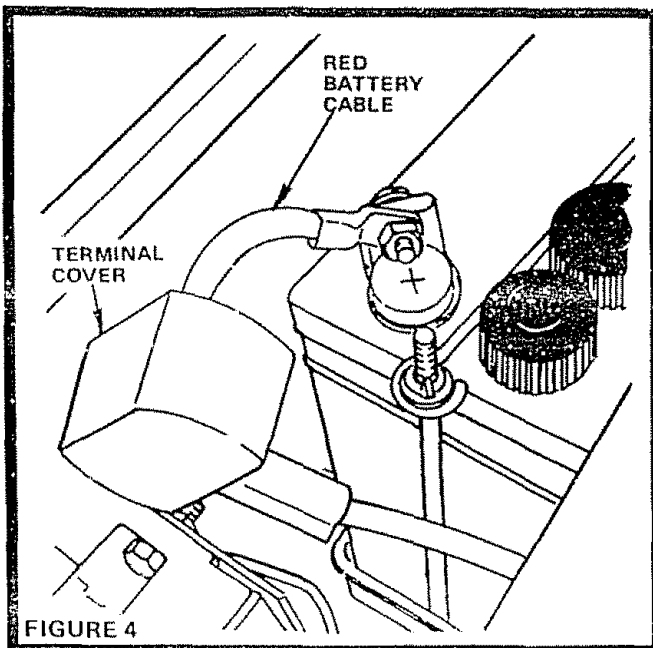
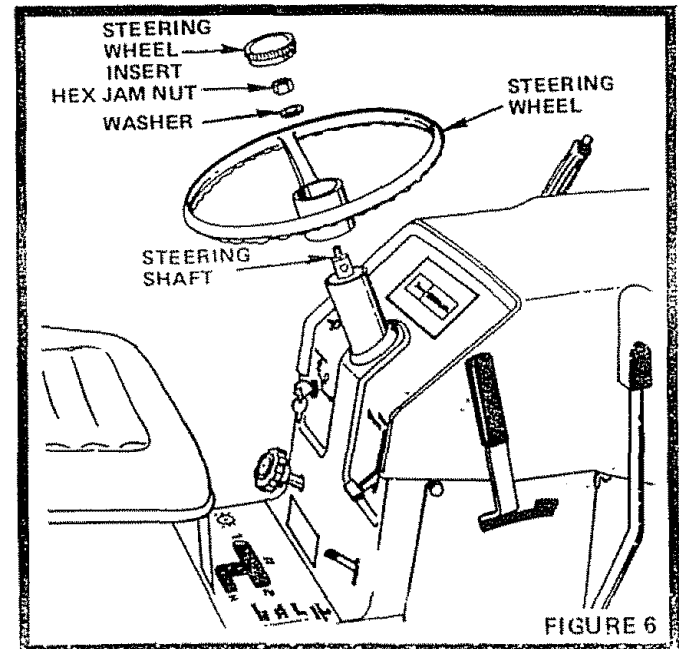
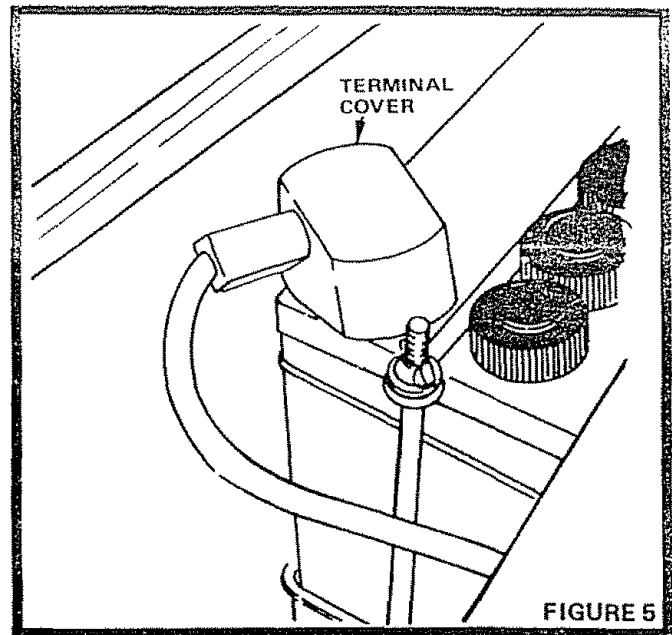
- b. Connect RED Battery Cable to Positive (+) Battery Terminal with Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig 3). Form Cable in an upward position (Fig 4) and tighten securely. Place Terminal Cover over Terminal. **NOTE: PULL TERMINAL COVER FORWARD TO ENCLOSE BATTERY TERMINAL (FIG. 5).**
- c. Connect BLACK Ground Cable to Negative (-) Battery Terminal with remaining Hex Bolt, Flat Washer, Lockwasher, and Hex Nut. Tighten securely (Fig. 3).

5. Install Steering Wheel using Flat Washer, Hex Jam Nut (shown full size below) and



- Steering Wheel Insert found in Bag of Parts.
- a. Secure the Steering Wheel to Steering Shaft with Washer and Hex Jam Nut (Fig. 6). Tighten securely.
- b. Install the Steering Wheel Insert.

**NOTE: A SPARK ARRESTOR KIT (PAGE 31) IS AVAILABLE AS AN ACCESSORY PART FOR YOUR TRACTOR. CHECK LEGAL REQUIREMENTS IN YOUR AREA.**



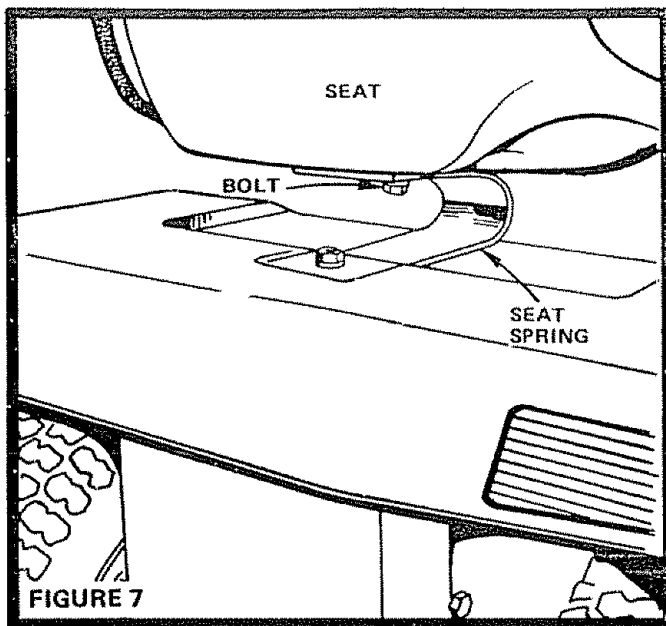


FIGURE 7

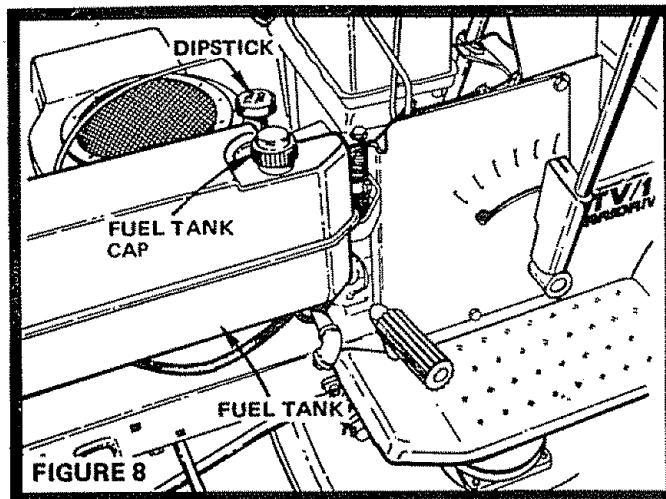


FIGURE 8

## INITIAL ADJUSTMENTS

1. REDUCE TIRE PRESSURE TO 14 POUNDS IN FRONT AND 12 POUNDS IN REAR TIRES. (Tires were overinflated for shipping purposes).
2. Seat position should be adjusted forward or backward so that operator can comfortably reach Clutch-Brake Pedal (Fig. 11).
  - a. Loosen the Bolt beneath the Seat Spring (Fig. 7). Slide the Seat forward or backward. Tighten Bolt securely.
3. Check mower adjustment page 16 and adjust if necessary.

## INITIAL SERVICE

NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL.

1. Raise Hood.
2. Check Engine Oil Level with Tractor on level ground. Remove Dipstick, wipe Dipstick (Fig. 8) clean, screw it in tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF) or 10W40 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). NOTE: DO NOT OVERFILL.
3. Fill Fuel Tank (Fig. 8) with fresh, clean regular grade leaded or low-lead automotive gasoline only. Capacity is 1.5 gallons. NOTE: DO NOT SWITCH FROM LEADED TO LEAD-FREE GASOLINE.

WARNING: DO NOT USE GASOHOL. Gasohol type alcohols react with water content in the fuel and tend to form strong acids which can corrode metal parts, even eat rubber and plastics.



FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL.

# OPERATION

NOTE: MOWER OPERATION IS LISTED ON PAGE 17



THIS TRACTOR IS EQUIPPED WITH INTERLOCK SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH LEVER (FIG. 9) IS IN THE "ENGAGED" POSITION AND/OR THE GEAR SHIFT LEVER IS NOT IN "N" NEUTRAL POSITION (FIG. 9). IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES.



LEARN TO START, STOP AND REVERSE YOUR TRACTOR IN A LARGE, OPEN AREA.



## CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
  - a. Shift gear shift lever to neutral (Fig 9)
  - b. Set parking brake (Fig 10)
  - c. Disengage attachment clutch (Mower Blade Clutch Lever) (Fig 9).
  - d. Shut off engine.
  - e. Remove ignition key.
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine

## STARTING THE TRACTOR



DO NOT OPERATE VARIDRIVE CONTROL UNLESS ENGINE IS RUNNING. TRANSAXLE DAMAGE MAY RESULT.

1. Place Attachment Clutch Lever in "DISENGAGED" position (Fig. 9).
2. Push Clutch-Brake Pedal fully into "BRAKE" position (Fig. 11).
3. Place Parking Brake in "ENGAGE" position (Fig. 10).
4. Place Gear Shift Lever in "N" neutral position (Fig 9).
5. Move Throttle Control Lever (Fig 10) to full throttle stop, then to the right and upward for "CHOKE" position. At the "FAST" position the Lever has a stop. The stop is provided so that you will know when you are at full throttle "FAST" position and prevent over travel into choke position.
6. Turn Ignition Key clockwise to "START" position and release Key as soon as engine starts (Fig 10). Immediately move Throttle Control Lever mid-way between "F" and "S" positions.

NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN THIRTY SECONDS AT A TIME. If Engine does not start after several attempts, move Throttle Control Lever mid-way between "F" and "S" positions, wait a few minutes, and try again



ALWAYS WEAR SUBSTANTIAL FOOTWEAR AND AVOID LOOSE FITTING CLOTHING THAT COULD GET CAUGHT IN MOVING PARTS.

## WARMING UP THE ENGINE

Move Throttle Control mid-way between "F" and "S" positions (Fig. 10). As engine warms up, move Throttle Control Lever to "F" position. NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

When restarting a warm engine move Throttle Control Lever to "F" position. "CHOKE" may not have to be used

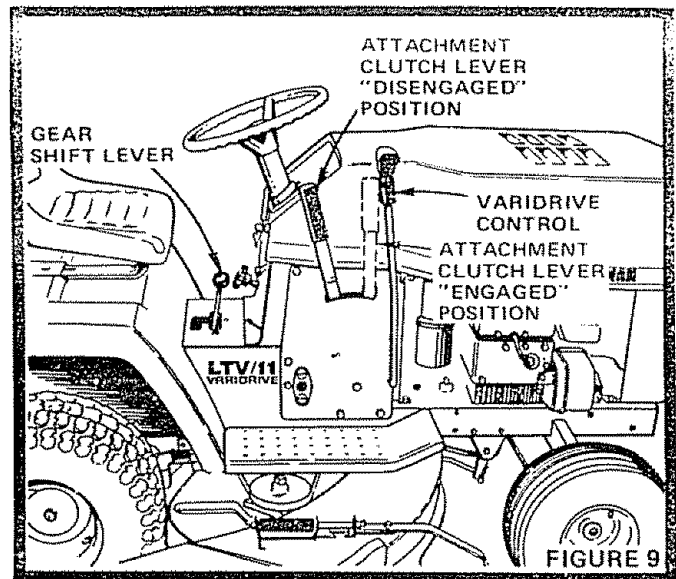


FIGURE 9

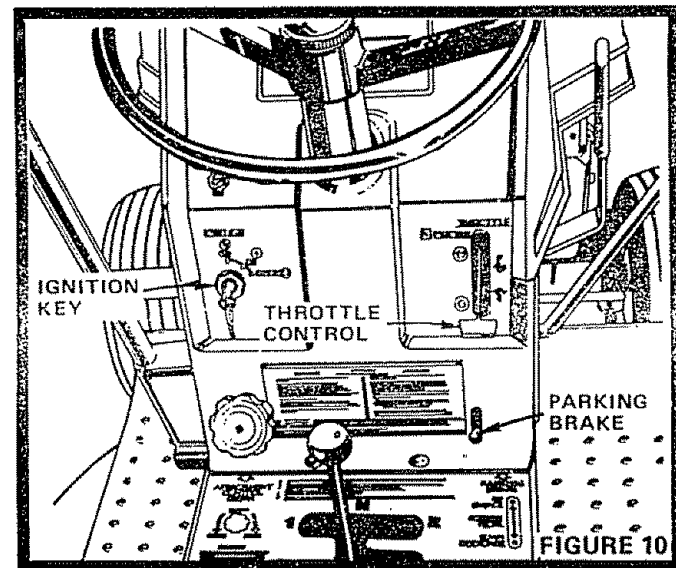


FIGURE 10

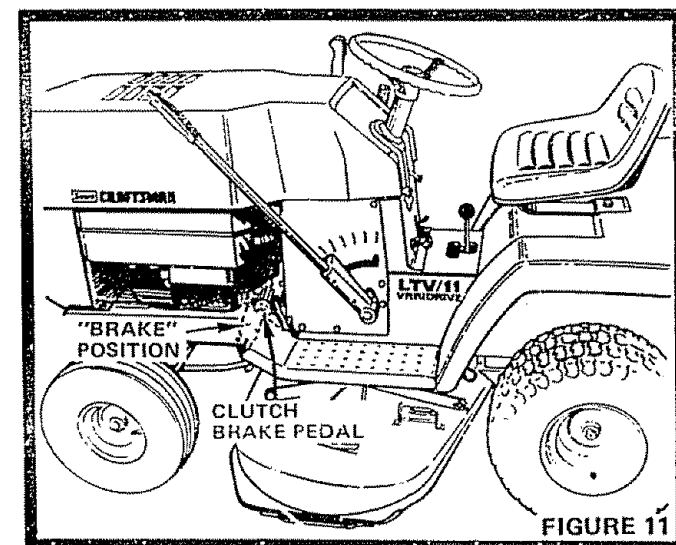


FIGURE 11

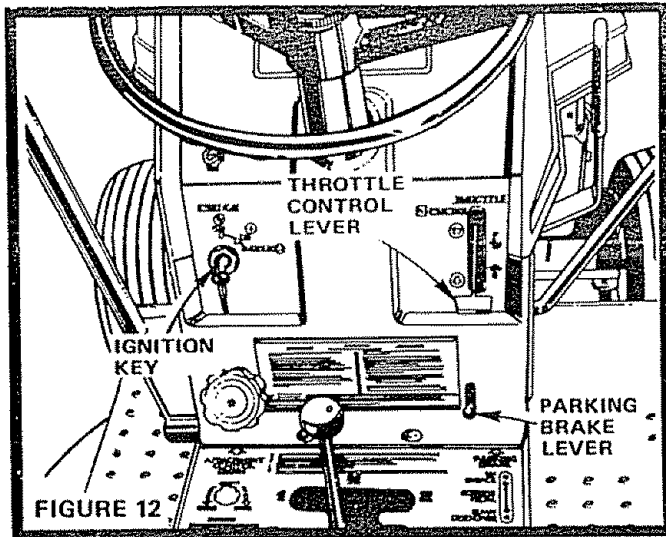


FIGURE 12

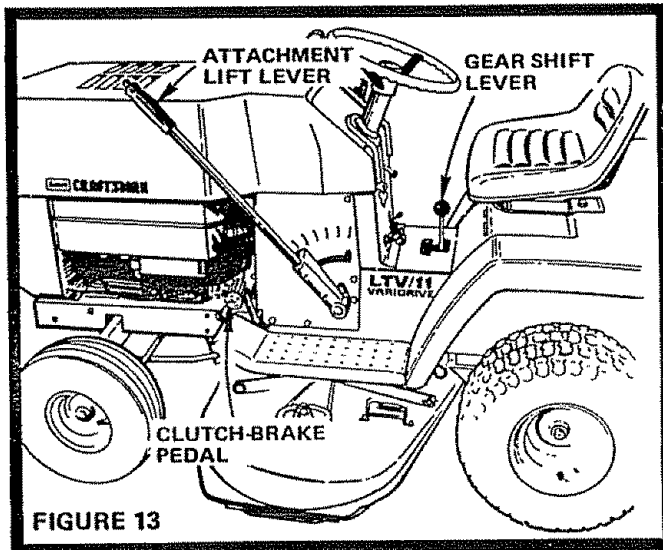


FIGURE 13

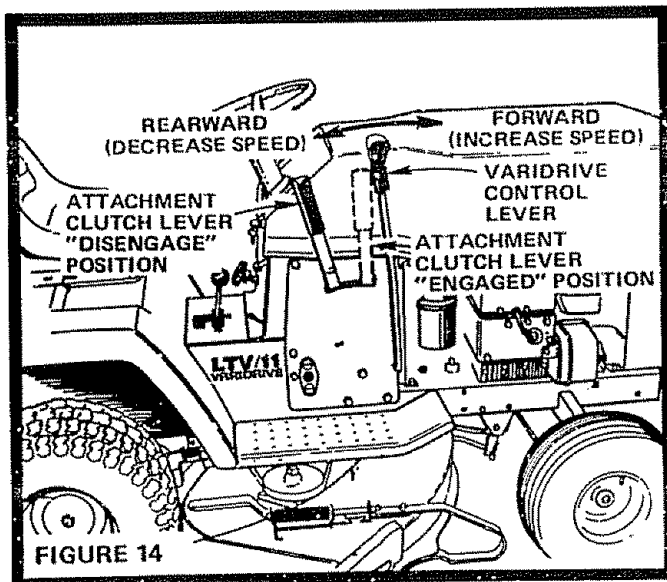


FIGURE 14

## TRACTOR OPERATION

1. With engine running and warm, place Throttle Control midway between "S" and "F" positions.
2. Push Clutch-Brake Pedal (Fig. 13) down firmly to unlock Parking Brake and hold Clutch-Brake Pedal in Brake position.
3. Move Gear Shift Lever to desired gear (Fig. 13)
4. Release Clutch Brake Pedal SLOWLY to start movement
5. Varidrive Control Lever (Fig. 14) controls ground speed in any of the selected gear ranges of the transaxle. Move Control Lever forward to increase speed, move Control Lever rearward to decrease speed. The Control Lever has a normal range of movement, DO NOT EXCEED THIS NORMAL RANGE OF MOVEMENT BY EXERTING EXCESSIVE PRESSURE ON LEVER. Varidrive Speed Control is especially valuable when load is not uniform. When engine-driven attachments are overloaded, such as with heavy lawn mowing or deep snow throwing, the ground speed may be reduced with the Control Lever to relieve the load while the attachment continues to operate at full speed.

NOTE: ALWAYS SELECT A GROUND TRAVEL SPEED THAT WILL SUIT THE TERRAIN AND THE ATTACHMENT BEING USED.



BRING TRACTOR TO COMPLETE STOP BEFORE SHIFTING GEARS.



NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTACHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS RUNNING.



DO NOT OPERATE THE MOWER WITHOUT EITHER THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

NOTE: ALWAYS OPERATE ENGINE AT FULL ENGINE RPM WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE, LONG ENGINE LIFE AND PROPER DISCHARGE OF CUT MATERIAL.

## STOPPING YOUR TRACTOR

1. Push Clutch-Brake Pedal completely into "BRAKE" position. Raise Parking Brake Lever and hold in "ENGAGED" position (Fig. 12). Release Brake Pedal.



CLUTCH-BRAKE PEDAL SHOULD REMAIN COMPLETELY DEPRESSED WHEN FOOT PRESSURE IS RELEASED.

2. Move Gear Shift Lever to "N" position.
3. Place Attachment Clutch Lever in "DISENGAGE" position (Fig. 14) and lower attachment with Attachment Lift Lever (Fig. 13).
4. Move Throttle Control to "S" position
5. Move Varidrive Control Lever rearward to "SLOW" position.
6. Turn Ignition Key to "OFF" position and remove Key.



REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.



## TRANSPORTING YOUR TRACTOR

TOWING IS NOT RECOMMENDED. Internal transaxle damage can result.

## TRACTOR OPERATION ON HILLS

1. Use 1st gear BEFORE starting up or down hills



**DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 15°, AND DO NOT DRIVE ACROSS ANY SLOPE.**

2. AVOID STOPPING OR SHIFTING ON HILLS
  - a. If slowing is necessary, move Varidrive Control Lever (Fig. 14) to slower position.



**LEAVE ENOUGH ROOM WHEN STOPPING AND STARTING TO ALLOW SLIGHT TRACTOR ROLL DOWNHILL AS CLUTCH-BRAKE PEDAL MOVES THROUGH CLUTCH POSITION.**

- b. If stopping is absolutely necessary, push Clutch-Brake Pedal quickly to brake position and lock Parking Brake.
  - c. To restart your tractor, make sure tractor is in the lowest speed range and that you have allowed room to roll slightly downhill. Unlock Parking Brake and release Clutch-Brake Pedal SLOWLY to start tractor forward movement, then move Varidrive Control Lever to desired speed.
3. Make all turns gradually.

## STARTING YOUR TRACTOR WITH A LOW BATTERY

If the Battery charge is too low to start the engine, it should be recharged. If "Jumper Cables" are used for emergency starting follow this procedure: NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM.



**LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME, AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION AROUND BATTERIES.**

1. Connect each end of the RED cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis).
2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
3. Connect the other end of the cable to ENGINE BLOCK or good CHASSIS GROUND on tractor (away from Gas Tank or Battery).
4. Disconnect cables in reverse order:
  - a. Engine Block or chassis of tractor.
  - b. Negative terminal of fully charged battery.
  - c. Positive terminals.



**DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.**

## MAINTENANCE

MOWER MAINTENANCE IS LISTED ON PAGE 18.

To keep your tractor running better, longer; perform necessary service using the following Maintenance Schedule.



DISCONNECT SPARK PLUG WIRE (FIG. 15) TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR AND VARIDRIVE BELTS).

## DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotter pins are secure. Observe all safety precautions. Keep Tractor well lubricated (refer to page 14).

## FIRST 2 HOURS

### 1. CHANGE ENGINE OIL

Changing Oil after the first two hours will help eliminate break-in residue which might be damaging to your Engine.

NOTE: Be careful not to allow dirt to enter the Engine when changing oil.

- Drain Oil with Engine warm. Unscrew Oil Drain Plug (Fig. 16) and remove Dipstick. Catch Oil in a suitable container. Replace Plug.
- Refill Engine Oil. In summer use S A E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF) or 10W40 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). Refill capacity is 3 pints. NOTE: DO NOT OVERFILL. Replace Dipstick.

### 2. CHECK BELT TENSION

NOTE: CHECK BELT ADJUSTMENT FREQUENTLY; NEW BELTS MAY STRETCH AFTER THE FIRST FEW HOURS OF OPERATION. PROPER BELT ADJUSTMENT LENGTHENS BELT LIFE.

- Place Tractor on level ground and block rear wheels (front and back on both sides). Place mower in its lowest position (Fig 37 - Inset)
- With engine running, and Gear Shift Lever in neutral position, place Varidrive Control Lever in slow position (Fig. 17). Do not depress Clutch Brake Pedal.
- Stop the engine and remove Spark Plug Wire to prevent accidental starting. Check the ride of the Primary Belt (Fig. 20) in the Variator (Fig. 18). If the outer edge of the Primary Belt rides deeper than 1/8" inside the edge of the Variator, adjustment is required. (See V-Belt Adjustment, page 9). If belt rides less than 1/8" of the edge of the Variator, belt adjustment tension may still be required. (Refer to V-Belt Adjustment).

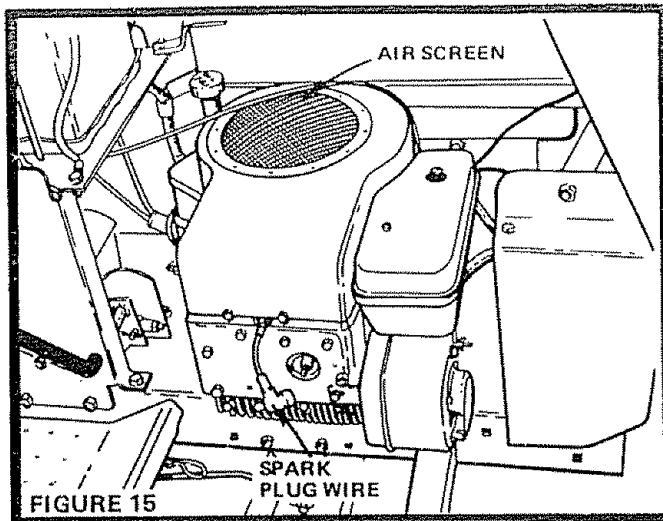


FIGURE 15

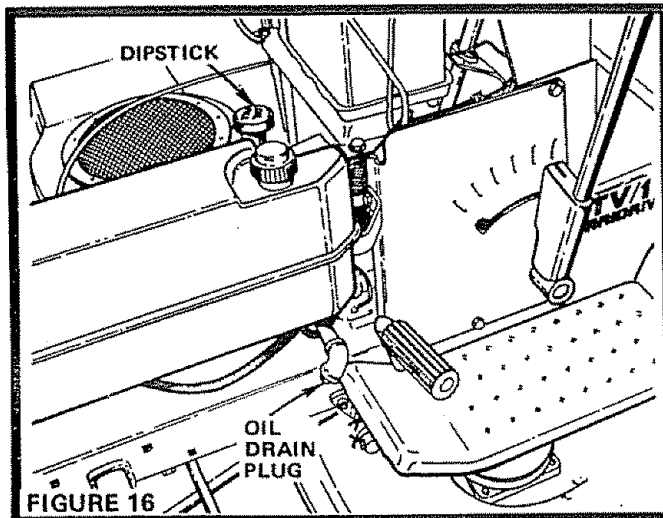


FIGURE 16

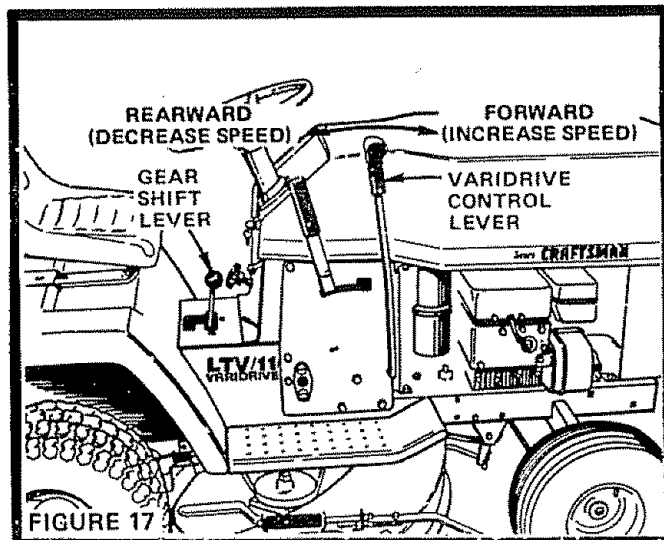


FIGURE 17

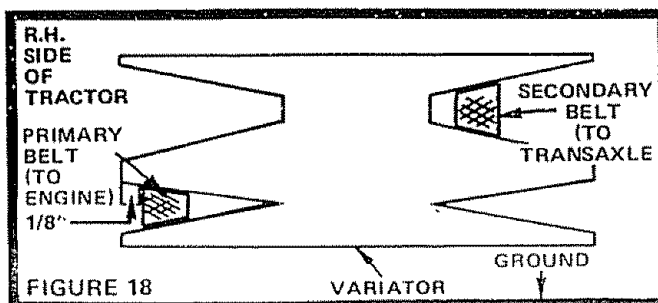
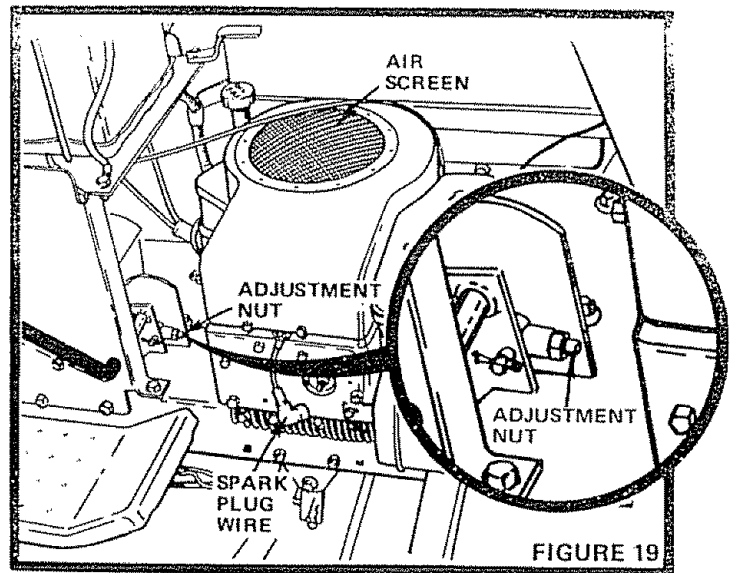


FIGURE 18

### 3. V-BELT ADJUSTMENT

- a. Stop engine and remove Spark Plug Wire. Loosen Adjustment Nut 1 turn (Fig 19).
- b. Replace Spark Plug Wire, restart engine and move Vari-drive Control Lever from slow to fast; then return to slow position.
- c. Recheck belt adjustment by returning to Step C under "Check Belt Tension".
- d. Stop engine and remove Spark Plug Wire. Proper tension is when both belts are approximately equal. The Secondary Belt is spring loaded and will always be properly tensioned. Compare belt tension between the Secondary and Primary Belt (Fig 20). If the Primary Belt has less tension than the Secondary Belt make adjustment by referring to step a above. If the Primary Belt has more tension than the Secondary Belt, tighten Adjustment Nut 1/2 turn (Fig 19).



## FREQUENTLY

### 1. CHECK BATTERY

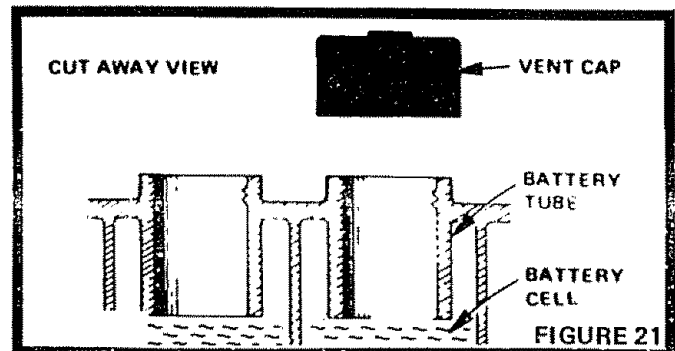
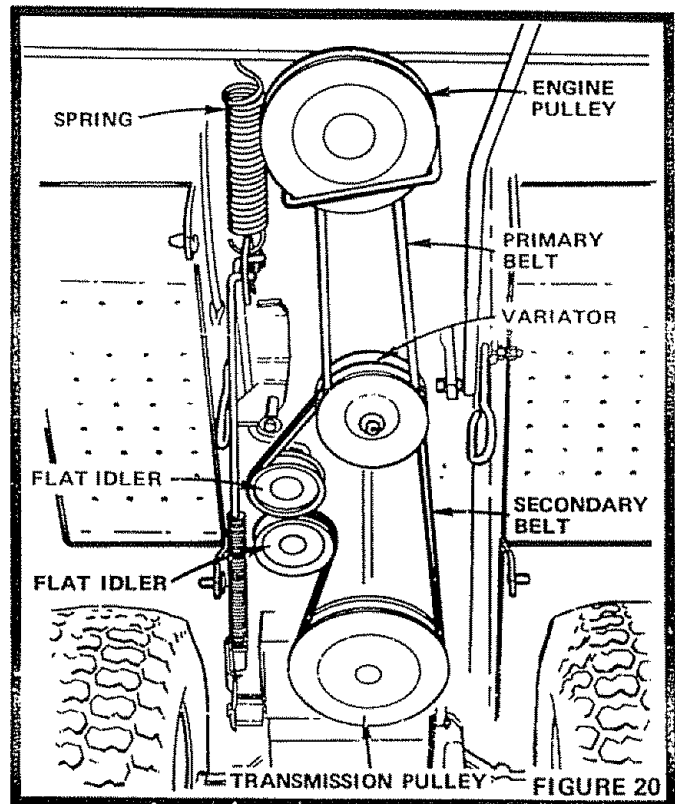
- a. Electrolyte solution level in each Battery Cell should be even with bottoms of tubes in cells (Fig. 21) Add distilled water if necessary. NOTE: DO NOT OVERFILL.
- b. Keep Battery and Terminals clean. Refer to page 12
- c. Keep Battery Bolts tight.
- d. Keep Vent Caps tight and small Vent holes in caps open.
- e. Recharge SLOWLY at 3 amperes if necessary.

### 2. CHECK TIRE PRESSURE

Tire pressure in front Tires should be 14 pounds; rear Tires 12 pounds.

### 3. CLEAN AIR SCREEN

Air Screen (Fig. 19) must be kept free of dirt and chaff to prevent Engine damage from overheating.



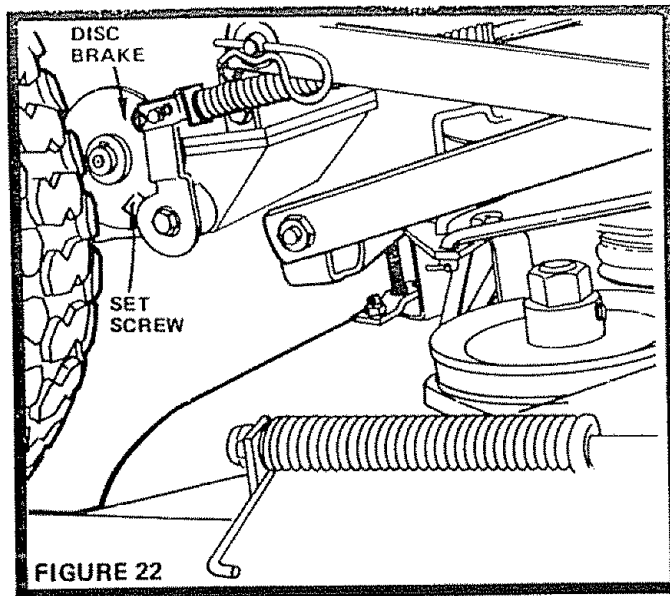


FIGURE 22

**FREQUENTLY ... CONTINUED**

**4. CHECK BRAKE OPERATION**

This tractor is equipped with an adjustable Disc Brake mounted on the right side of the transaxle (Fig. 22).

**IF TRACTOR REQUIRES MORE THAN SIX FEET STOPPING DISTANCE IN HIGHEST GEAR, THEN BRAKE MUST BE ADJUSTED.**

NOTE: A 5/64 INCH ALLEN SET SCREW WRENCH IS REQUIRED TO ADJUST THE BRAKE.

- a. To adjust, tighten Set Screw until Disc Brake can not be moved by hand, approximately 1/4 to 1/2 turn clockwise. Now loosen Set Screw until Disc Brake is just moveable by hand (Fig. 22).
- b. Road test tractor as stated above. Readjust if necessary.

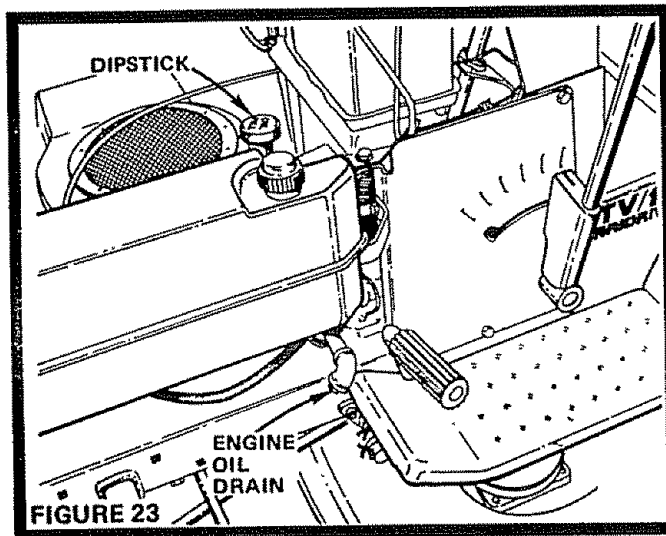


FIGURE 23

**EVERY 5 HOURS  
CHECK ENGINE OIL LEVEL**

**DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.**

Several minutes after stopping Engine, check Engine Oil Level with Tractor on level ground. Remove Dipstick, wipe Dipstick clean (Fig. 23), screw it in tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF) or 10W40 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). NOTE: DO NOT OVERFILL.

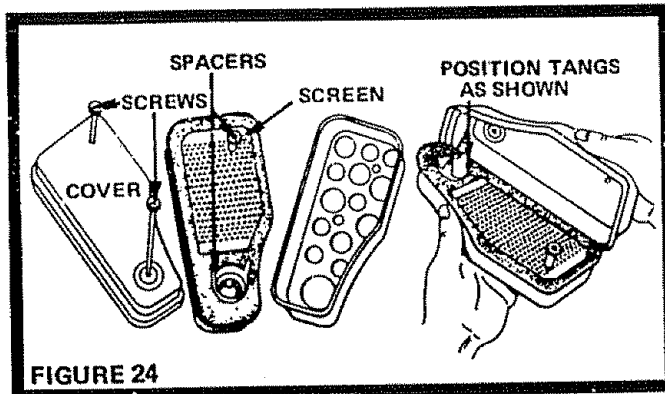


FIGURE 24

**EVERY 25 HOURS  
(EVERY 15 HOURS IF OPERATING  
IN VERY DUSTY CONDITIONS)**

**1. CLEAN AIR CLEANER ELEMENT (FIG. 24)**

- a. Remove two Screws and lift off complete air cleaner assembly (Fig's. 24 & 25).
- b. Remove Screen and Spacers from foam element.
- c. Remove foam element from air cleaner body.
- d. Wash foam element in liquid detergent and water to remove dirt.
- e. Wrap foam in cloth and squeeze dry.
- f. Saturate foam in engine oil. Squeeze to distribute and remove excess oil.
- g. Assemble parts - securely fasten to carburetor with screws.

When assembling make certain the lip of the foam element extends over edge of the air cleaner body. The foam element lip will form a protective seal.

NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

## EVERY 25 HOURS ... CONTINUED

### 2. CHANGE ENGINE OIL

The best time to change Engine Oil is at the end of a days operation when all dirt and foreign material is suspended in the hot Oil. Refer to Fig. 23.

## EVERY 50 HOURS

### 1. CLEAN ENGINE COOLING SYSTEM

Grass, chaff or dirt may clog the air cooling system, especially after prolonged service cutting dry grasses. To avoid overheating and engine damage, remove the Blower Housing and clean the area shown in Fig. 25 - Inset



WEAR SAFETY GLASSES IF USING COMPRESSED AIR.

### 2. MUFFLER

Do not operate the tractor without a Muffler (Fig. 25) or tamper with the exhaust system. Damaged Mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

## EVERY 100 HOURS

Replace Spark Plug at the beginning of each season or every 100 hours, whichever comes first. Gap should be set at .030 inch (Fig. 26)

## EVERY 200 HOURS

### REPLACE AIR CLEANER ELEMENT

Refer to page 10. The Air Cleaner Element is listed on page 39, Key No. 4.

## AS NEEDED

### 1. CARBURETOR ADJUSTMENT

Never attempt to change maximum engine speed. This is preset at the factory and should only be changed by a qualified service technician who has the necessary equipment.

a TO ADJUST CARBURETOR - Turn Needle Valve clockwise until it just closes (Fig. 27 - Inset).

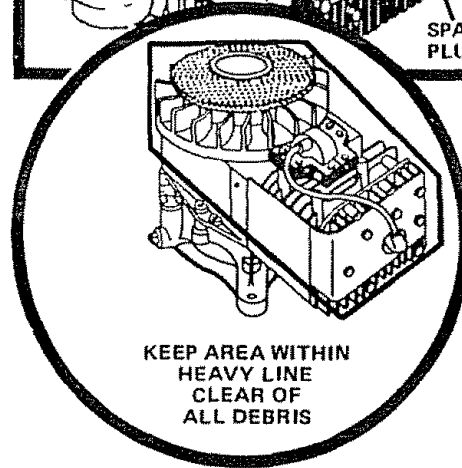
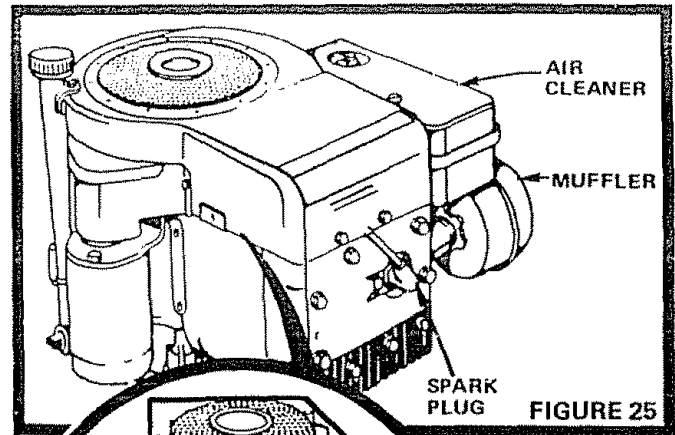
NOTE: VALVES MAY BE DAMAGED BY TURNING THEM TOO FAR.

Now open Needle Valve 1 - 1/2 turns. Close Idle Valve in same manner and open 1 - 1/4 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

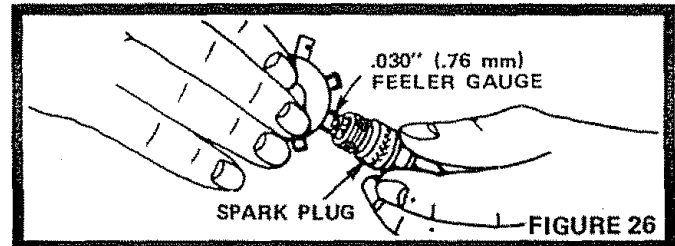


REFER TO "STARTING THE TRACTOR" PAGE 5.

- b FINAL ADJUSTMENT - Place throttle control in "FAST" position (Fig. 12). Turn Needle Valve in until engine slows (clockwise - lean mixture). Then turn it out past smooth operating point (rich mixture). Now turn Needle Valve to midpoint between rich and lean. Next adjust idle RPM. Rotate Throttle counterclockwise and hold against Stop. Adjust Idle Speed Adjusting Screw to obtain 1750 RPM. Holding Throttle against Idle Stop, turn Idle Mixture Valve in (lean) and out (rich). Set at midpoint between rich and lean. Re-check idle RPM. Release throttle. If engine will not accelerate properly, the carburetor should be re-adjusted, usually to a slightly richer mixture

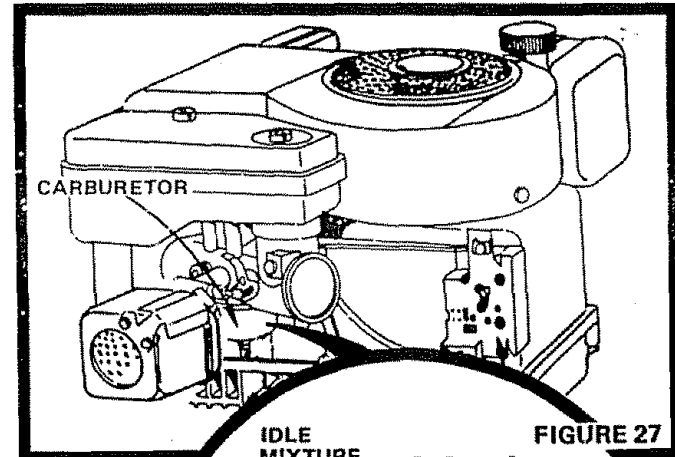


KEEP AREA WITHIN HEAVY LINE CLEAR OF ALL DEBRIS



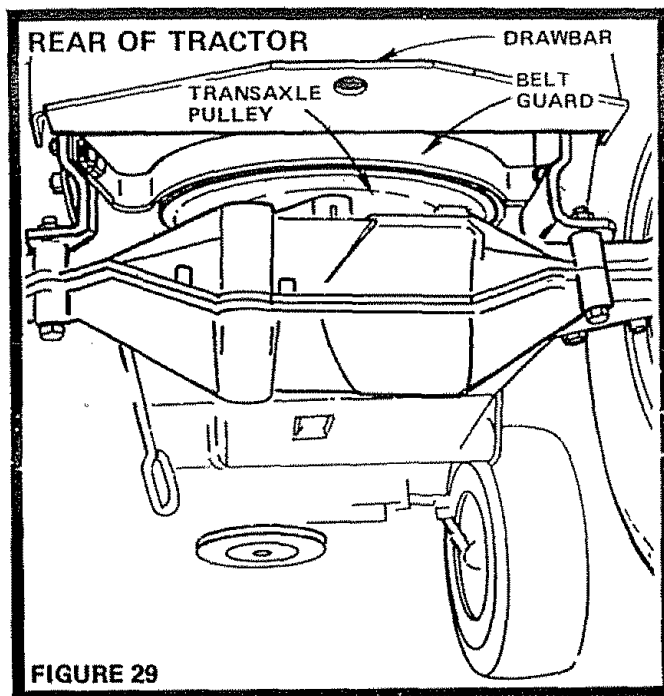
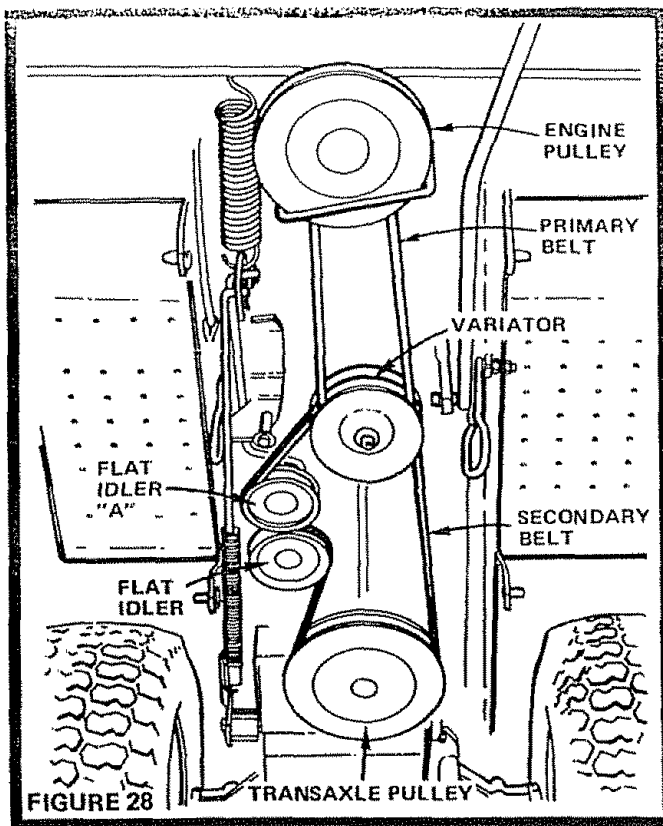
.030" (.76 mm) FEELER GAUGE  
SPARK PLUG

FIGURE 26



CARBURETOR  
IDLE MIXTURE VALVE  
IDLE SPEED ADJUSTING SCREW  
THROTTLE STOP  
THROTTLE  
NEEDLE VALVE (HIGH SPEED)

FIGURE 27



## AS NEEDED . . . CONTINUED

### 2. TO REMOVE VARIDRIVE BELTS

The Belts on this tractor are special for this application. When replacing Belts always replace with original equipment.

- a. Place Varidrive Control (Fig. 14) in slow position.
- b. Set Parking Brake (Fig. 12).
- c. Move Attachment Clutch Lever (Fig. 14) to disengaged position.
- d. Place mower in its lowest position (Fig. 37 - Inset).

### TO REMOVE PRIMARY BELT

- a. Remove mower Main Drive Belt, refer to "Belt Replacement", page 19.
- b. Roll Belt off Variator (bottom groove) (Fig. 28).
- c. Remove Belt from Engine Pulley.

### TO REMOVE SECONDARY BELT

- a. Remove Primary Belt (Fig. 28). Relieve Idler tension by engaging parking brake.
- b. Remove Drawbar and Belt Guard at Transaxle Pulley (Fig. 29).
- c. Remove Flat Idler "A".
- d. Roll Belt off Transaxle Pulley. Remove Belt from Flat Idler and Variator (top groove).
- e. Reverse the above procedures to install new Belts.

NOTE: WHEN A NEW BELT OR BELTS ARE INSTALLED YOU MUST CHECK BELT TENSION. REFER TO "CHECK BELT TENSION", PAGE 8.

### 3. VARIDRIVE CONTROL ADJUSTMENT

If the Varidrive Control (Fig. 14) moves from the selected speed position under load, tighten the Varidrive Handle Assembly Locknut (Page 30, Key No. 29).

### 4. CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the Battery and Terminals cause the Battery to "leak" power.



**LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME, AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD EYES AROUND BATTERIES.**

- a. Disconnect BLACK Battery Cable then RED Battery Cable and remove Battery from Tractor. Wash Battery with four tablespoons of baking soda to one gallon of water. NOTE: BE CAREFUL NOT TO GET THE SODA SOLUTION INTO THE CELLS. Rinse the Battery with plain water, dry and reinstall on Tractor.
- b. Clean terminals and Battery Cable ends with a wire brush until bright. Replace Battery Cables, connecting RED Battery Cable first, then BLACK Battery Cable to respective terminals. Coat terminal connections with Vaseline. Replace Terminal Cover.

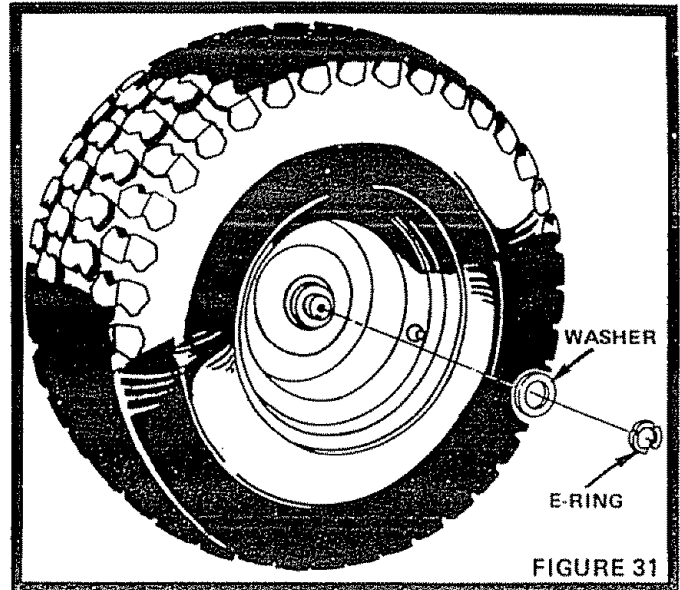
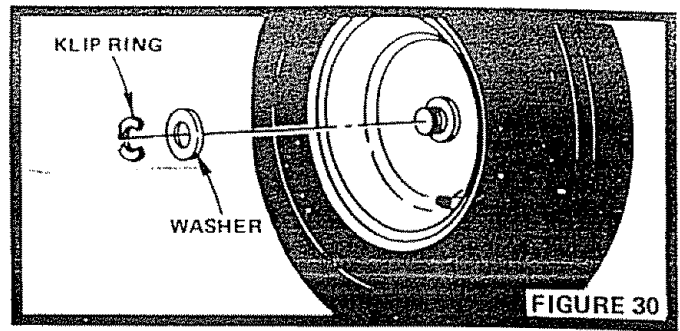
## AS NEEDED . . . CONTINUED

### 5. TIRE CARE

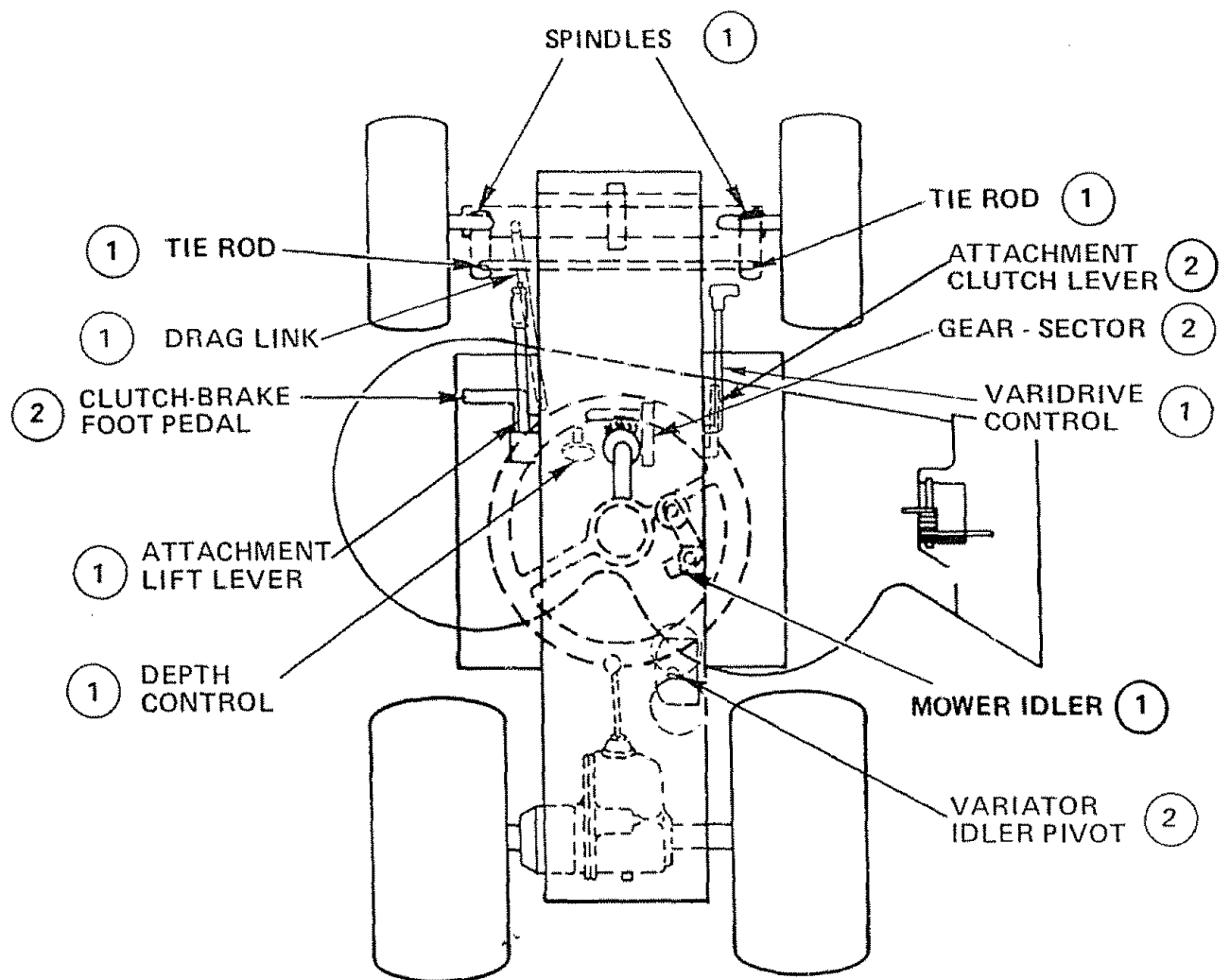
- a. Maintain tire pressure of 14 pounds in front tires and 12 pounds in rear tires.
- b. Keep tires free of gasoline, oil, or insect control chemicals which can destroy rubber.
- c. Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.
- d. Removing front wheel for tire repair (Fig. 30).
  - Block up front axle securely or use a Tractor Jack.
  - Remove Klip Ring and Washer to allow wheel removal.
  - Repair tire and reassemble. Replace washer and snap Klip Ring securely in axle groove.
- e. Removing rear wheel for tire repair (Fig. 31).
  - Block up rear axle securely or use a Tractor Jack.
  - Remove E-Ring and Washer to allow wheel removal.
  - Repair Tire and reassemble. Replace Washer and snap E-Ring securely in axle groove.

### 6. FINISH

Keep tractor and seat free of gasoline, oil, insect chemicals or battery electrolyte. Protect painted surfaces with automotive type wax.



# LUBRICATION CHART



- ① SAE 30 MOTOR OIL
- ② GENERAL PURPOSE GREASE

SERVICE RECORD	FREQUENTLY							SERVICE DATES					
	FREQUENTLY	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	SEASONAL						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE													
Check Engine Oil Level	✓												
Change Engine Oil		✓											
Oil Pivot Points: Suspension, Idler Arm, Clutch Arm, Bell Crank & Spindles	✓	✓											
Check Brake Operation	✓												
Clean Air Screen on Engine & Grill	✓												
Clean Air Cleaner Element		✓											
Replace Air Cleaner Element					✓								
Clean Engine Cooling Fins			✓										
Replace Spark Plug				✓									
Check Battery Levels	✓												
Check Tire Pressure	✓												
Grease Mower Mandrel			✓			✓							



# TROUBLE SHOOTING

POSSIBLE CAUSE	POSSIBLE REMEDY
<b>WILL NOT START</b> Gear Shift Lever in gear Attachment Clutch Lever engaged No gasoline in Fuel Tank or clogged Fuel Line  Blown Fuse Dead Battery	Shift to "N" position (Fig. 9) Disengage Lever (Fig. 9) Fill Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary) Check for fault and replace Fuse Recharge or replace Battery
<b>HARD TO START</b> Choked improperly, flooded Engine  Clogged Fuel Tank Dirty Air Cleaner Spark Plug dirty or improper gap Defective Battery Defective Ignition or loose wiring Water in gasoline or old fuel  Improper Carburetor adjustment	Place Throttle Control (Fig. 10) in "FAST" position and run starter several times to clear out gas Remove and clean Remove and clean (Fig. 24) Clean, adjust gap or replace (Fig. 26) Recharge or replace Check the wiring and Spark Plug Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug Make necessary adjustments (Fig. 27)
<b>ENGINE MISSES OR LACKS POWER</b> Engine overload Clogged Fuel Tank Partially plugged Air Cleaner Improper Carburetor-adjustment Dirty Engine Air Screen Low oil level or dirty oil Spark Plug dirty, improper gap or wrong type Faulty Ignition Poor compression Oil in gasoline Belts have stretched	Shift to a lower gear (Fig. 9) or reduce load Remove and clean Remove and clean (Fig. 24) Make necessary adjustments (Fig. 27) Clean Air Screen (Fig. 15) Add or change oil (Fig. 23) Replace Spark Plug (Fig. 26) Check Spark Plug and for loose wires Major Engine overhaul Drain and refill Gas Tank and Carburetor Refer to Check Belt Tension (page 8)
<b>ENGINE OVERHEATS</b> Dirty Air Screen Low oil level or dirty oil Dirty Engine Partially plugged Muffler Partially plugged Air Cleaner Stale fuel or improper Carburetor adjustment	Clean Air Screen (Fig.15) Add or change oil (Fig. 23) Clean Engine Cooling System (Fig. 25) Remove and clean Muffler (page 11) Remove and clean (Fig. 24) Use fresh fuel and adjust Carburetor (Fig. 27)
<b>NO LIGHTS</b> No Headlights with Light Switch in "ON" position and engine running	Check Switch and Wire Connections. Replace light bulbs.
<b>WON'T CHARGE</b> Blown Fuse Defective Battery Defective Alternator	Check for fault and replace Replace Replace

## STORAGE

1. **ENGINE OIL**  
 Drain (with engine warm) and replace with clean engine oil. Refer to page 8.
2. **FUEL SYSTEM**
  - a. Drain fuel tank and carburetor by allowing the engine to run out of gasoline. NOTE: GASOLINE LEFT IN YOUR ENGINE WILL LEAVE GUM DEPOSITS CLOGGING FUEL SYSTEM.
  - b. Dispose of gasoline if not to be used. NOTE: GASOLINE STORED FOR SEVERAL MONTHS LOSES ITS VOLATILITY (ABILITY TO BURN EFFECTIVELY).
3. **CYLINDER**
  - a. Remove Spark Plug
  - b. Pour one ounce of engine oil through spark plug hole into cylinder.
4. **BATTERY**
  - a. Turn ignition key to "START" position for a few seconds to distribute oil.
  - b. Replace with new Spark Plug.
4. **BATTERY**
  - a. Remove battery if tractor is not used regularly during winter months. Store in cool, dry place (above 50°F.).
  - b. Re-charge each month if necessary. NOTE: BATTERIES NOT IN USE FOR SEVERAL MONTHS AND NOT KEPT FULLY CHARGED, PRODUCE SULPHUR DEPOSITS ON PLATES WHICH CANNOT BE REMOVED BY RECHARGING.
5. **GENERAL CLEANING**  
 Clean engine, battery, finish, seat, etc. of all foreign matter.

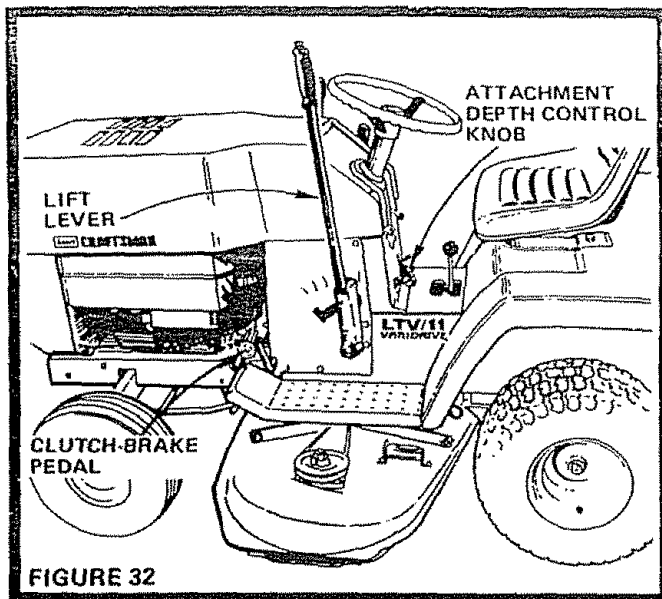


FIGURE 32

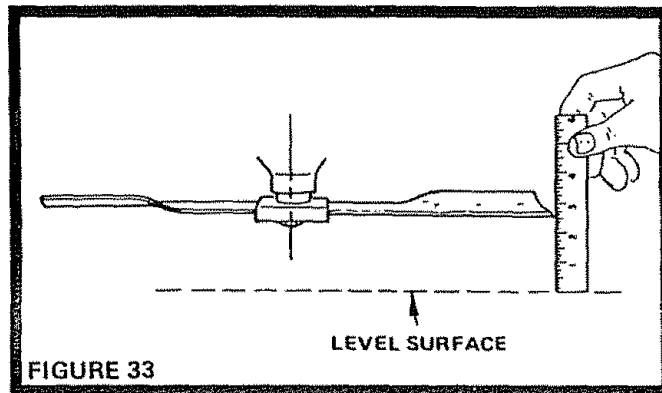


FIGURE 33

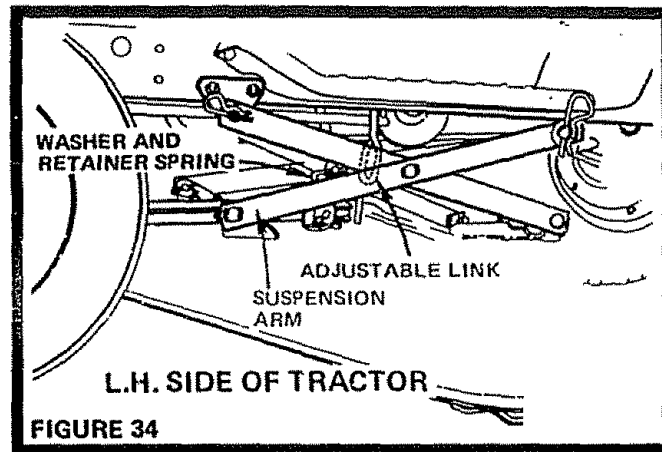


FIGURE 34

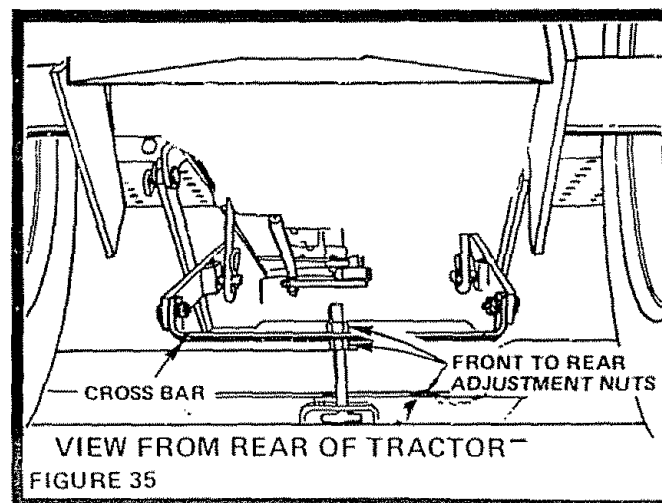


FIGURE 35

## MOWER ADJUSTMENT

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:



ADJUST MOWER TO MIDDLE OF CUTTING RANGE AS FOLLOWS. WITH LIFT CONTROL LEVER LOCKED IN UP (REAR) POSITION, TURN ATTACHMENT DEPTH CONTROL KNOB COUNTERCLOCKWISE UNTIL LIFT LEVER IS IN MID RANGE (FIG. 32). ENGAGE THE PARKING BRAKE, RETURN SHIFT CONTROL LEVER TO NEUTRAL. SHUT OFF ENGINE, MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE IGNITION KEY, DISCONNECT THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING.

NOTE: BEFORE CHECKING THE SIDE TO SIDE AND FRONT TO REAR ADJUSTMENTS BELOW, BE SURE PRESSURE IN FRONT TIRES IS 14 POUNDS AND PRESSURE IN REAR TIRES IS 12 POUNDS. IT IS NECESSARY TO HAVE TIRES PROPERLY INFLATED WHEN LEVELING THE MOWER.

### LEVEL MOWER FROM SIDE TO SIDE

1. Rotate Blades by hand so that they are in line with width of the tractor.
2. Measure the height of the tips of outer blades (Fig. 33). Both R.H. and L.H. must be the same distance from level surface within 1/8 of an inch.
3. If adjustment is required, remove Retainer Spring and Washer (Fig. 34) on L.H. side Center Pivot Pin of Suspension Arms leaving Lift Link free.
  - a. Turn Link clockwise to raise L.H. side of mower.
  - b. Turn Link counterclockwise to lower L.H. side of mower.


NOTE: ONE TURN (180°) WILL EQUAL 1/16" HEIGHT CHANGE.

4. Replace Washer and Retainer Spring on Center Pivot Pin of Suspension Arms.

### ADJUST MOWER FROM FRONT TO REAR

1. Your Mower should cut approximately 3/16" lower at front than at the rear. With R.H. Mower Blade in line with length of tractor, measure the height of the front tip of Blade (Fig. 33). Rotate Blade 1/2 turn and measure. The front tip must be approximately 3/16 of an inch lower than the rear tip of blade.
2. If adjustment is required, loosen Front to Rear Adjustment Nuts (Fig. 35) move up or down to obtain the above pitch or difference front to rear. Adjusting the Nuts up will lower the rear of the mower. Lowering Nuts will raise the rear of the mower. Tighten the two Nuts securely against Cross Bar (Fig. 35).

# MOWER OPERATING INSTRUCTIONS

 READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.


THE MOWER MUST BE LEVELED FROM FRONT TO REAR BEFORE OPERATING. THIS IS NECESSARY FOR LEVEL AND EFFICIENT MOWING. REFER TO PAGE 16

1. Place Attachment Clutch Lever in "DISENGAGED" Position (Fig 36).
2. Push tractor Clutch-Brake Pedal (Fig. 32) fully into brake position.
3. Place Gear Shift Lever in "N" position (Fig. 36)


NOTE: TRACTOR MUST BE IN "N" AND MOWER BLADE CLUTCH LEVER IN "DISENGAGED" POSITION BEFORE TRACTOR WILL START.

4. Start tractor and set engine speed to about 1/3 to 1/2 throttle before engaging mower. After mower is "ENGAGED" and you have started forward travel, set to FULL THROTTLE.

NOTE: "ENGAGE" OR "DISENGAGE" MOWER BLADE CLUTCH LEVER SLOWLY.

 NEVER "ENGAGE" MOWER EXCEPT WHEN SITTING ON TRACTOR SEAT.

5. Start mowing in low range and increase ground speed by moving Varidrive Control Lever (Fig. 36) forward as conditions will permit. Average cutting height is approximately 2 - 1/2 to 2 - 3/4 inches. Height of cut can be adjusted by means of the Lift Lever (Fig. 37). Moving the Lever forward lowers the mower. Moving it rearward raises the mower. The Lift Lever is actuated by depressing the Lift Lever Plunger at the top of the lever handle (Fig. 37). Move Attachment Lift Lever rearward to highest position. Adjust Depth Control Knob (clockwise or counterclockwise) to desired cutting height (Fig. 37). Attachment Lift Lever stops at preselected height
6. Drive so that clippings are discharged onto the area that has been cut. The R.H. Runner can be used as a guide line for line of cut (Fig. 36). Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting. When mowing large areas (Fig. 38), start by turning to the right so that the clippings will be discharged away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction making left hand turns until finished. If grass is extremely tall, it should be mowed twice. The first time cut relatively high. The second time to the desired height. The left hand side of mower should be used for trimming.

 DO NOT OPERATE THE MOWER WITHOUT THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

NOTE: TIRE CHAINS CANNOT BE USED WITH THE MOWER HOUSING ATTACHED.

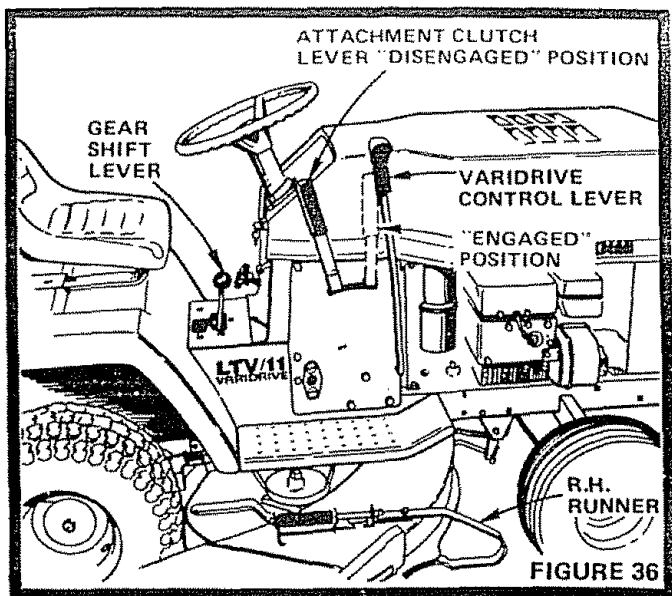


FIGURE 36

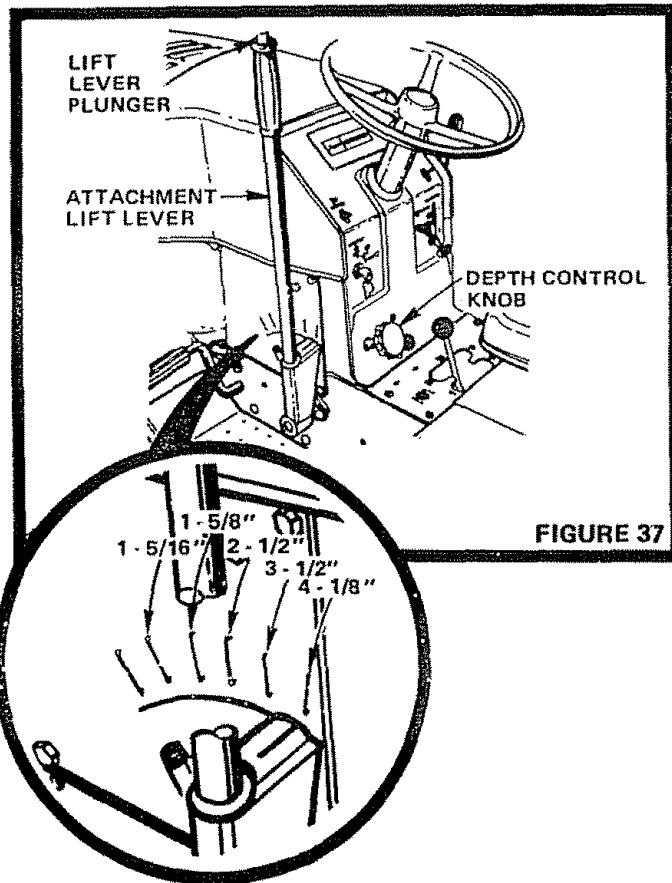


FIGURE 37

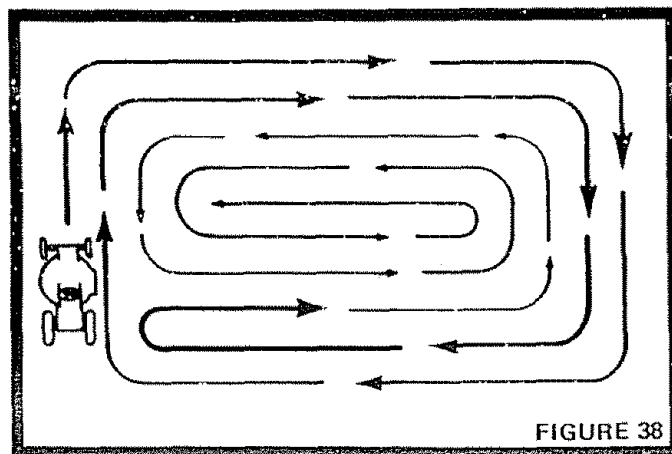
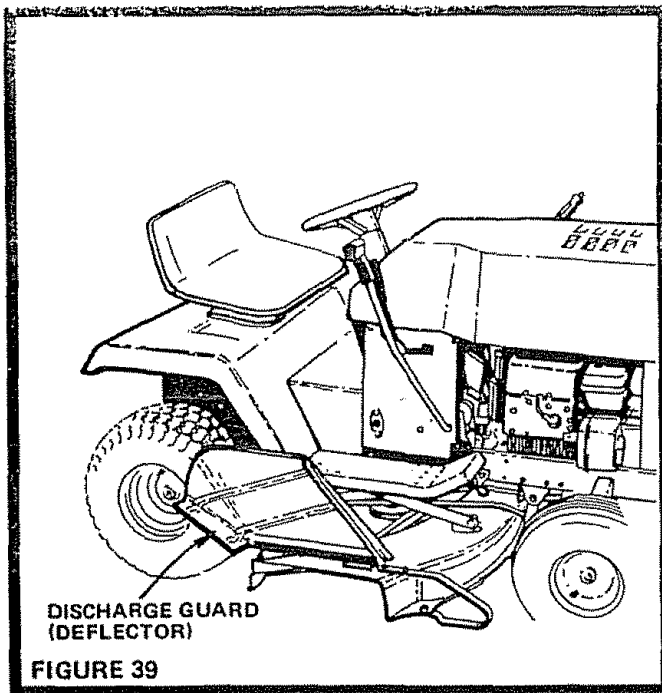


FIGURE 38



## FLIP-UP DISCHARGE GUARD

Your mower has a flip-up Discharge Guard (Fig. 39) for door or gate clearance when held in raised position.



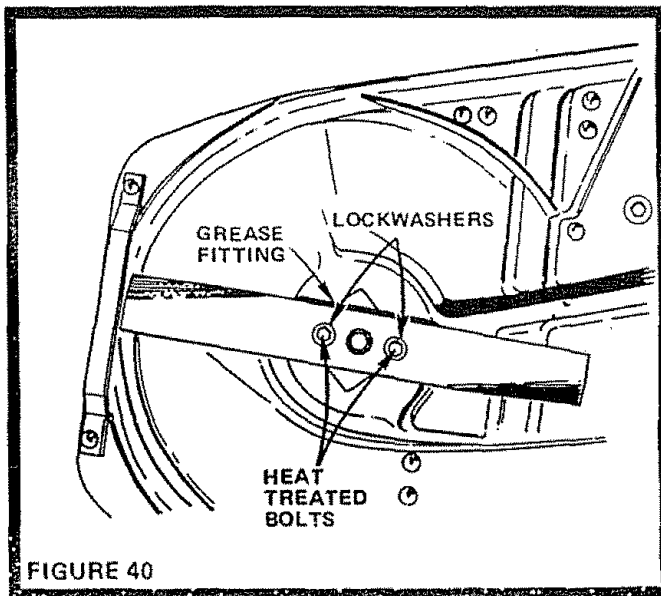
MAKE SURE ATTACHMENT CLUTCH LEVER IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD (DEFLECTOR).

## MOWER MAINTENANCE INSTRUCTIONS

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:



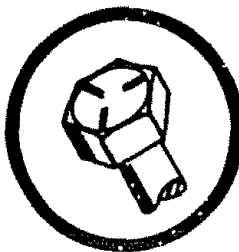
PUSH TRACTOR CLUTCH-BRAKE PEDAL COMPLETELY INTO BRAKE POSITION. MOVE GEAR SHIFT LEVER TO "N" NEUTRAL POSITION. PLACE PARKING BRAKE IN "ENGAGED" POSITION. PLACE MOWER BLADE CLUTCH LEVER IN "DISENGAGED" POSITION. SHUT OFF THE ENGINE. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED, REMOVE THE IGNITION KEY, DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING.



## BLADE CARE

For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file or on a grinding wheel. We suggest they be sharpened after every 15 hours of mowing. Do not attempt to sharpen while on mower.

1. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.
2. To ensure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades. Mower blades can be purchased at all Sears retail and catalog stores.



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES INDICATED ON THE BOLT HEAD AS SHOWN AT LEFT.

## DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotter pins are secure. Keep blades sharp. Observe all safety precautions. Keep mower well lubricated (refer to page 14).

## BLADE REPLACEMENT

Raise mower to highest position to permit access to Blades.

1. Remove Bolts and Lockwashers (Fig. 40) (turn counter-clockwise).
2. Secure new Blade with Lockwashers and Bolts previously removed. TIGHTEN SECURELY.

NOTE: INSTALL NEW BLADES WITH SHARP EDGE DOWN.



ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TORQUE BOLTS 45-50 FT. LBS.

## CLEANING MOWER



**DISCONNECT SPARK PLUG WIRE TO PREVENT ACCIDENTAL STARTING BEFORE CLEANING.**

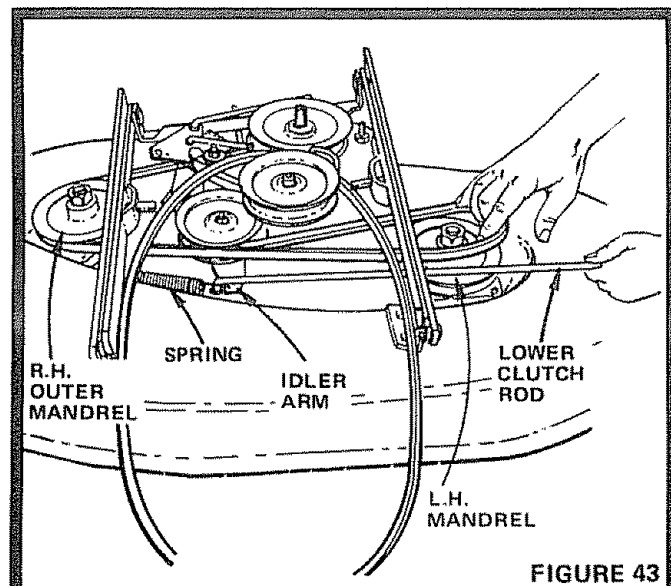
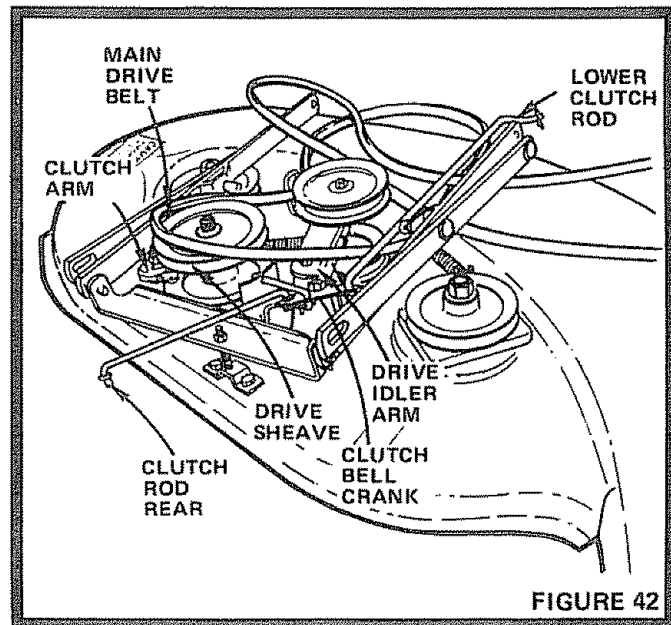
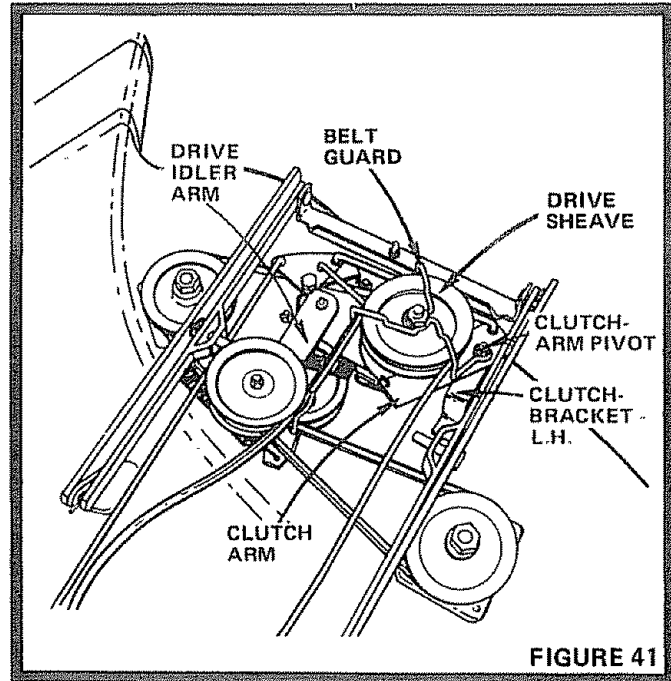
Water pressure from a garden hose will remove fresh clippings from underside of mower. Clean mower, top and underside, after each mowing.

## BELT REPLACEMENT MAIN DRIVE BELT

1. Remove mower from tractor, refer to "To Remove Mower, page 20.
2. Remove Belt Guard from Drive Sheave by removing Nuts and Washers from Clutch Arm Pivot and Drive Sheave (Fig. 41).
3. Loosen Bolt in Flat Idler and Drive Idler Arm (Fig. 41).
4. Remove Belt.
5. To replace Belt reverse steps 1 thru 4

## DECK DRIVE BELT

1. Remove mower from tractor. Refer to "To Remove Mower, page 20.
2. Remove Belt Guard from Drive Sheave by removing Nuts and Washers from Clutch Arm Pivot and Drive Sheave (Fig. 41).
3. Remove Lower Clutch Rod from Clutch Bell Crank (Fig. 42).
4. Remove Belt from L.H. Mandrel as follows:
  - a. Place a Flat Washer on end of Lower Clutch Rod and secure with a Retainer Spring. (Use one of the Washers and Retainer Springs that mounted mower to tractor) (Fig. 43).
  - b. Place Lower Clutch Rod over Idler Arm and back of Spring. Have Washer under Idler Arm (Fig. 48)
  - c. Pull on Rod to loosen Belt so that it can be removed from L.H. Mandrel (Fig. 43).
5. Remove Clutch Bracket Strut (Fig. 44)
6. Loosen front bolt in R.H. Clutch Bracket (Fig. 44)
7. Remove rear bolt from R.H. Clutch Bracket (Fig. 44)
8. Remove Clutch Arm Pivot Bolt from Clutch Arm and L.H. Bracket (Fig. 41)
9. Raise rear of R.H. Clutch Bracket and slip Belt to the outside (Fig. 44).
10. Continue by slipping Belt between Deck Drive Idler and Drive Idler Arm (Fig. 44). Remove Belt from bottom groove of Drive Sheave and then from mower (Fig. 44).
11. Tighten all bolts securely and spread cotters before replacing mower on tractor.
12. To replace, reverse steps 2 thru 10. NOTE: LEAVE BOLTS IN R.H. CLUTCH BRACKET LOOSE UNTIL THE CLUTCH BRACKET STRUT IS IN PLACE.



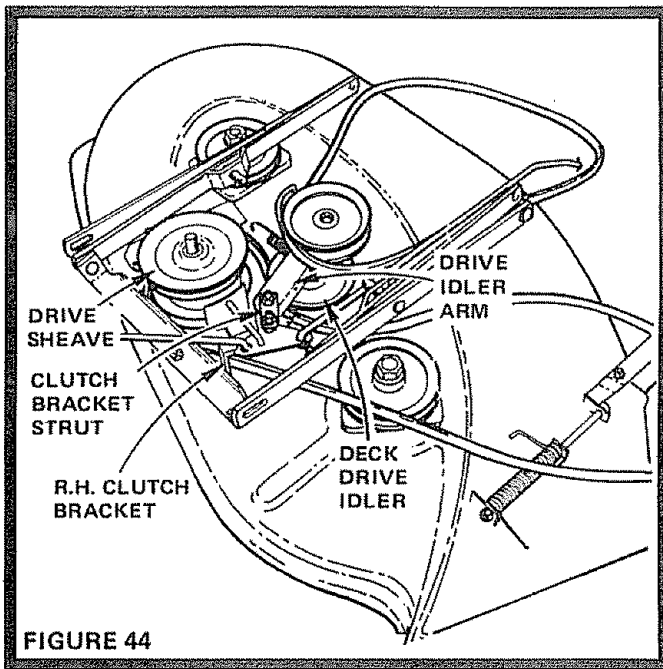


FIGURE 44

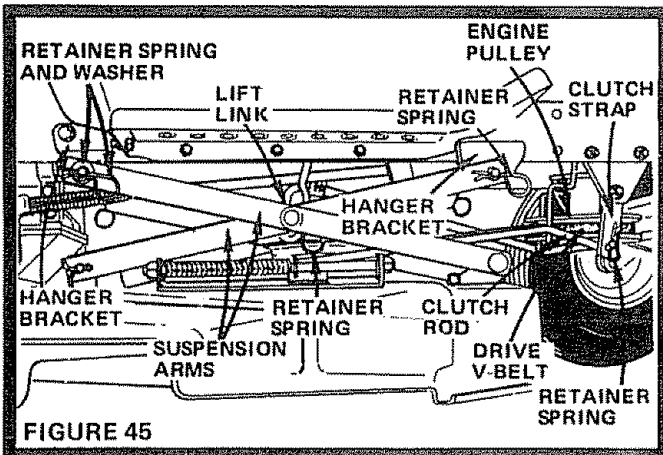


FIGURE 45

## TO REMOVE MOWER

1. Move Lift Lever (Fig. 37) forward to lower mower to its lowest position.
2. Remove Drive V-Belt from Engine Pulley (Fig. 45).
3. Pull Retainer Spring (both sides of mower) from pin of Suspension Arms. Remove Washers and Lift Links from Suspension Arm Pins.
4. Remove Retainer Springs (front and rear - both sides) from Front and Rear Hanger Brackets. Also remove Washers on Rear Hanger Brackets. Remove Suspension Arms from Hanger Brackets.
5. Remove Retainer Spring from Lower Clutch Rod. Remove Lower Clutch Rod from Clutch Strap.
6. Pull mower from underneath tractor from R.H. side.

## TO REPLACE MOWER

1. Reposition mower under tractor.
2. Reverse above procedure.

## LUBRICATION - MOWER

Under normal usage the Mandrels should be lubricated after every 50 hours of operation or at the end of the season whichever comes first. Each Mandrel should be filled with grease (six shots) thru the Grease Fitting located between Mower Blade and underside of the Mower Housing (Fig. 40) Wipe fitting clean before greasing. Use high performance, extreme pressure lubricating grease. Amdex No. 1 E.P. or equivalent. This grease may be obtained by ordering thru your nearest Sears Repair Parts Department. Part No. 2557R.

## STORAGE

When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean dry area.