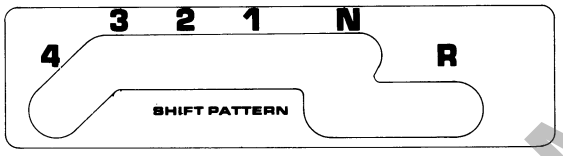
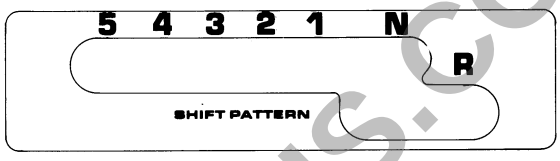
2 CONTROLS AND OPERATION

Refer to Fig. 2.1A.

IMPORTANT: Be sure to read this section of the Operator's Manual before you attempt to operate your tractor. It is for your safety that you know where all controls are, and are familiar with the functions of each control.



GEAR SHIFT
(4 Speed Only)



GEAR SHIFT
(5 Speed Only)

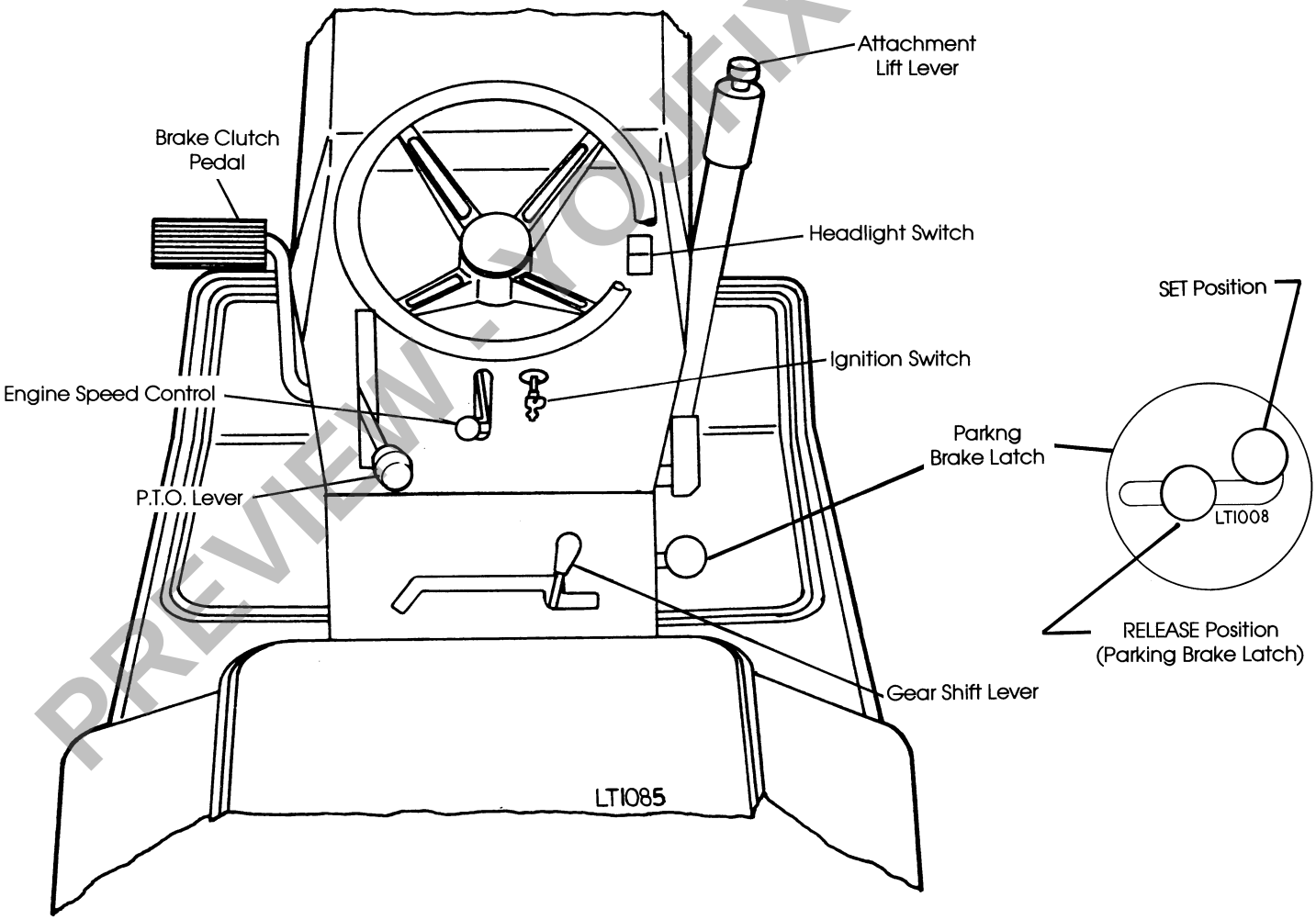


FIG. 2.1A

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4 MAINTENANCE AND LUBRICATION

WARNING: To avoid personal injury, always turn engine off and wait for all movement to stop. Remove spark plug wire(s) from spark plug(s) before cleaning, making any repairs or adjustments.

BREAK-IN MAINTENANCE AND LUBRICATION

IMPORTANT: Apply oil and grease carefully and only where required. Oil or grease on drive belts or pulleys will cause slippage and loss of drive. Thoroughly wipe up any excess grease, oil and spills.

For maximum efficiency and trouble free service, make the following periodic inspections of the tractor. For engine maintenance, refer to the engine instructions.

1. The engine oil should be changed as described in the engine instructions. The oil drain pipe is located on the right-hand side of engine just above frame.

   WARNING: To avoid personal injury from severe burns, use care when draining oil. Engine and oil are extremely hot. Do Not come in contact with engine or oil.

   Place an oil pan under drain and remove oil drain cap. **The best time to change oil is just after the engine has been run.** Use cardboard or tinfoil to form a gutter from the drain to the oil pan.

   After the oil has been drained, replace the oil drain cap. Remove the oil fill cap and dipstick. For proper type of oil and crankcase capacity refer to the engine instructions. **Do not overfill.** When checking oil level, screw dipstick assembly firmly but slowly until cap bottoms on tube. Dipstick assembly must be securely assembled into tube at all times when engine is operating.

2. Perform all other checks and maintenance called for under "Daily", "25 Hour", and "100 Hour" schedules.

DAILY SCHEDULE

1. GENERAL: Make general visual inspection of the tractor for loose or damaged parts. Check nuts and bolts periodically to insure against looseness caused by vibration or rough handling. Check for oil leaks from engine and transaxle. Damaged parts should be repaired or replaced before using the tractor.

2. ENGINE OIL LEVEL: Refer to the engine instructions. Check oil level with tractor on level ground and the engine stopped. Before removing dipstick, clean dirt from around dipstick and opening.

3. ROTATING SCREEN: Inspect rotating screen for chaff or dirt build-up and clean as required (Fig. 4.2A).

4. AIR CLEANER: Refer to the engine instructions for proper maintenance.

5. BATTERY: Terminals should be tight and free of corrosion. The hold down should be snug over battery. Top of battery should be clean and dry. Check level of electrolyte. Maintain electrolyte level up to the bottom of vent wells. Add clean distilled water as needed.

6. OPERATING LIGHTS: Check operation of all lights before starting and using your tractor. **NOTE:** To check operation of headlights, engine must be running.

IMPORTANT: If lights do not work, check circuit and correct failure before starting or using the tractor again. Refer to the WIRING DIAGRAM section.

NOTE: If lights need replacement, order replacement parts from your authorized dealer.

7. BELTS: Inspect for proper tension. Refer to ADJUSTMENT AND SERVICING section.

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5 ADJUSTMENT AND SERVICING

WARNING: To avoid personal injury, always turn engine off and wait for all movement to stop. Remove spark plug wire(s) from spark plug(s) before cleaning, making any repairs or adjustments.

TRACTION BELT

ADJUSTMENT

No adjustment required. This belt is self adjusted by the spring loaded pivot bracket. Periodically check pivot bracket to be sure it is pivoting freely and providing tension.

REPLACEMENT

Refer to Fig. 5.2A

In the event that the belt is slipping or breakage occurs, replacement is necessary. Order the manufacturer's authorized part to ensure using a belt that will meet the specfic service requirements.

1. Place tractor on level surface; set parking brake; move P.T.O. to OFF position; and remove spark plug wire(s).
2. Remove mower or other attachments mounted under tractor. (Follow the instructions in the attachments operator's manual).
3. Remove flat idler pulley and V-idler pulley from pivot bracket. **NOTE:** Retain all hardware and parts removed for reassembly.
4. Slip traction belt up and off input pulley.
5. Remove upper belt retainer.
6. Slip traction belt off of upper engine pulley, then over bottom engine pulley.
7. Work belt upward through the shift pattern hole.
8. Discard the old belt.
9. Work new belt down through the shift pattern hole.
10. Position new belt around upper engine pulley then around input pulley.
11. Reassemble upper belt retainer to tractor.
12. Reassemble idler pulleys (with belt fingers) to pivot bracket (Fig. 5.2A). **NOTE:** Do not fully tighten hardware holding the two pulleys at this time.
13. Release parking brake and check belt position.

IMPORTANT: Belt should be tight and properly seated withir the pulley grooves. Belt should not be touching any control rods, lift levers, or any parts of the frame.

14. Position the belt finger on the front (flat) idler pulley as shown in the boxed illustration (Fig. 5.2A). Now tighten hardware holding flat idler and belt finger in position. **NOTE:** Belt finger should not be touching belt or edges of pulley.
15. Position the belt finger on the rear V-idler pulley so that it is at a 90° angle to the belt as shown in the boxed illustration (Fig. 5.2A). Tighten hardware holding V-idler and belt finger. **NOTE:** Belt finger should not be touching belt or edges of pulley.
16. Reinstall mower or other attachments under tractor. (Follow the instructions in the attachments operator's manual.)

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IMPORTANT: If decals are missing, illegible, or damaged, they should be replaced.

Notice to Customers in the State of California-The engine on this unit is **NOT** equipped with a spark arresting muffler.

IMPORTANT

USE OR OPERATION OF THIS ENGINE ON ANY FOREST COVERED, BRUSH COVERED, OR GRASS COVERED LAND WITHOUT A STATE APPROVED SPARK ARRESTER IN EFFECTIVE WORKING OR-DER BY THE OPERATOR CONSTITUTES A VIOLATION OF THE LAW OF THE STATE OF CALIFORNIA, OTHER STATES MAY HAVE SIMILAR LAWS. FEDERAL LAWS APPLY ON FEDERAL LANDS.

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1 SAFETY PRECAUTIONS

THE FOLLOWING PRECAUTIONS ARE SUGGESTED TO HELP PREVENT ACCIDENTS.

A CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS CAN BE AVOIDED BY OBSERVING CERTAIN PRECAUTIONS. READ AND TAKE THE FOLLOWING PRECAUTIONS BEFORE OPERATING THIS TRACTOR TO HELP PREVENT ACCIDENTS. EQUIPMENT SHOULD BE OPERATED ONLY BY THOSE WHO ARE RESPONSIBLE AND INSTRUCTED TO DO SO.

THE TRACTOR

- Know the controls and how to stop quickly. READ THIS OPERATOR'S MANUAL and instructions furnished with attachments.
- **DO NOT** modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function.
- **DO NOT ALLOW CHILDREN TO OPERATE THE VEHICLE. DO NOT** allow adults to operate it without proper instruction.
- **DO NOT CARRY PASSENGERS.** There is no safe place for extra riders.
- **DO NOT** mow when children and others are around.
- Keep all shields in place.
- Replace safety and warning decals when they become illegible, damaged or missing.

FUEL USAGE SAFETY

- Handle gasoline with care. It is highly flammable. Only use approved gasoline container.
- **DO NOT** attempt to fill gas tank from fuel container unless the container spout or funnel fits inside the fuel tank filler neck.The use of too large a spout or funnel, or no funnel, may result in spilled gasoline, creating highly flammable gas vapors. This could result in fire and/or explosion, causing severe bodily injury. Never fill the gas tank indoors.
- **NEVER** take the cap off or refuel when the engine is running or hot; allow engine to cool for several minutes before refueling.
- **DON'T SMOKE WHILE REFUELING OR ANYWHERE NEAR FUEL.**
- **DO NOT** store, spill or use gasoline near an open flame.
- When filling the tank, maintain control of the nozzle.
- **DON'T** fill fuel tank to capacity. Allow room for expansion.
- Wipe up any spills immediately.
- **ALWAYS** tighten the fuel tank cap securely.
- If the original equipment fuel tank cap is lost, **ALWAYS** replace it with an approved cap. A will-fit cap may not be safe.
- **DON'T** drive equipment near open fire.
- **NEVER** use gasoline for cleaning parts.

TRACTOR OPERATION

- Disengage all power to attachment(s), fully depress brake-clutch pedal and shift into neutral before attempting to start the engine.
- Only use jumper cables in recommended manner as outlined in Operator's Manual.
- **DO NOT** bypass the safety interlock system. Consult your Dealer if your safety controls malfunction.
- Reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control. Be especially cautious when changing direction on slopes.
- 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.
- **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.
- **DO NOT** operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
- **DO NOT** start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating controls.
- **DO NOT** get off the tractor while it is in motior
- Before leaving the operator's position, disenga power to attachment(s), lower the attachments, shift into neutral, set the parking brake and stop the engine and remove key (if so equipped).
- **NEVER** leave the unit when it is parked on an incline. Always park the unit on level ground where possible. If the unit is to be parked on an incline, always lower the attachment(s), set the parking brake, and securely block the wheels.
- To avoid up-sets drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes and when turning.
- When using any attachments, **NEVER** direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
- Keep people and pets a safe distance away from machine.
- Disengage power to attachment (s) when transporting or not in use.
- Keep the tractor in the same gear when going downhill as used when going uphill. **DO NOT** coast or free wheel down hills.
- Use care when pulling loads or using heavy equipment.
  a) Use only approved drawbar hitch points.
  b) Limit loads to those you can safely contro
  c) Do not turn sharply. Use care when backin
  d) Use counterweight (s) or wheel weights when suggested in the Operator's Manual.

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3 TRIAL RUN

Now that you have located the controls and understand their operation and function it is time to test ride your new tractor. Do this without operating an attachment until you have the feel of the unit.

WARNING: To avoid personal injury, give complete and undivided attention to safe operation of the tractor. Remember, improper use of the tractor is hazardous.

WARNING: To avoid personal injury from overturns, do not use wheel weights, a weight box, or any additional weights for stability when operating tractor on hills.
(For increased traction, use only authorized wheel weights.)

This tractor is equipped with an interlock system which will allow the engine to start only if the brake clutch pedal is fully depressed, the P.T.O. is in the OFF position and the operator is properly seated.

BEFORE STARTING

1. **Be certain that the engine crankcase is filled with recommended oil** and the engine service instructions have been followed completely.
2. Sit on the tractor seat in the normal operating position.
3. Place shift lever in NEUTRAL position.
4. Move P.T.O. to OFF position.
5. Move engine speed control to START if starting a cold engine. If starting a warm engine move control to MEDIUM or FAST.
6. Fully depress brake clutch pedal.

TO START

1. Turn ignition key to START until the engine starts. Do not engage starter for more than a 10 second duration. Wait 60 seconds then engage starter for another 10 seconds or until engine starts. This will prolong starter life.
2. As the engine warms up move engine speed control to FAST detent position.

TO OPERATE

Start out in 1'st gear 1. TO CHANGE SPEED, fully depress brake clutch pedal and move lever to desired position. Remove foot slowly and completely from pedal to engage drive. **Do not shift in motion.** Try all gear positions.

WARNING: To avoid personal injury, use a slow speed until you learn how to drive the tractor.

BEFORE STOPPING ENGINE

1. Move shift lever to neutral N.
2. Disengage P.T.O..
3. SET the parking brake.

TO STOP ENGINE

Turn ignition key to OFF. Remove key.

Once your are acquainted with the controls and are comfortable with the operation of the tractor it is time to use your attachment.

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SEAT

1. Attach seat to tractor.

Refer to Fig. 10.4A.

PARTS NEEDED:
(1) Seat
(1) 3/32 x 3/4 Cotter Pin

A. Remove the cotter pin from one end of the seat pivot rod. Remove the rod from the seat support. Discard the cotter pin but save the flat washer.

B. Line up the holes in the plate under seat with the holes in the seat support. **NOTE:** The plate on the seat should be on the inside of the seat support.

C. Insert the seat pivot rod through the lined up holes.

D. Place a flat washer onto the seat pivot rod and secure in place with a 3/32 x 3/4 cotter pin. Bend back the ends.

E. Route wire harness through hole in side of seat support. Assemble a plastic connector from the end of the wire harness assembly to each of the two seat switches. The connector with the longest wire leads assembles to the seat switch that is mounted in the metal "U" bracket. Push both connectors completely onto the seat switch terminals until retainer snaps over the tab on the connectors.

F. Place a wire harness in "J" Clip and bend clip closed to hold wire harness.

G. Pivot seat down to the operating position.

H. Check adjustment of seat springs. Springs should just clear vertical edges of seat support.

I. If adjustment is required:
   1. Remove plastic caps on ends of springs.
   2. Loosen bolt in center of spring and rotate spring until correct clearance is acheived.
   3. After adjustment is complete retighten cap screws and assemble plastic caps.

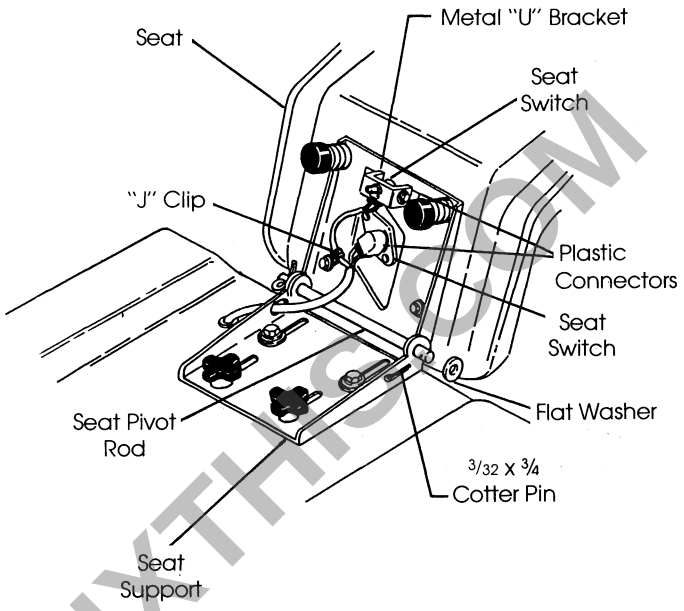


FIG. 10.4A

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