## SEAT, LIGHT, AND ENGINE CONTROLS

### TRACTOR SEAT

Your Ford 1300 Tractor is equipped with a molded cushion seat as shown in Figure 1. The seat is adjustable to obtain the most comfortable position. It can be moved closer to or farther from the steering wheel by loosening the attaching bolts, and repositioning the seat as desired (Figure 2). Two additional inches of adjustment can be obtained by removing the bolts and relocating in alternate holes in seat attachment plate.

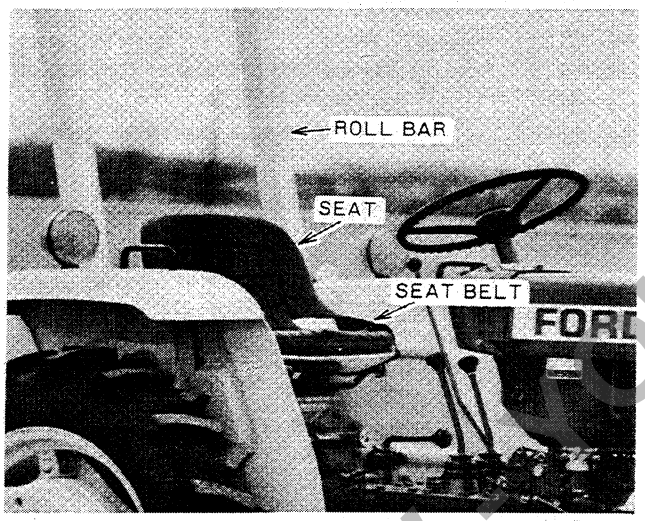



**Figure 1 — Tractor Seat, Roll Bar and Seat Belt**

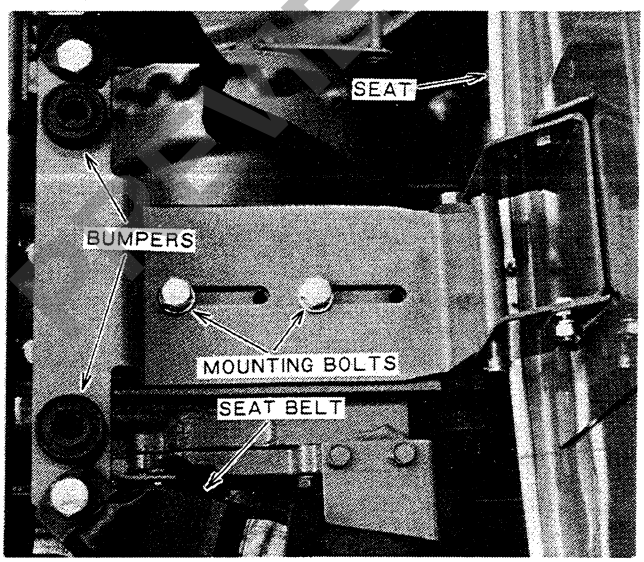



**Figure 2 — Tractor Seat Adjustment**

### SAFETY ROLL BAR AND SEAT BELT

The safety offered by the roll bar and seat belt is minimized if your seat belt is not buckled. Always use your seat belt — they save lives.

**CAUTION:** Never attach chains, ropes, or cables to the roll bar for pulling purposes; this is very dangerous, as the tractor will tip backward. Always pull from the tractor drawbar.

Be careful when driving through door openings or under low overhead objects. Make sure there is sufficient clearance for the roll bar to clear the structure or object.

### ADJUSTING THE SEAT BELT

To lengthen the belt, tip the buckle end down and pull on the buckle until the ends can be joined.

To shorten the belt, buckle it, then pull on the loose end until the belt is snug.

If the seat belt is to be cleaned, use soap and water. Do not use carbon tetrachloride, naptha, etc., as these will weaken the webbing. For the same reason, do not bleach or redye the webbing. Replace seat belt if worn or damaged.

## LIGHTING

### FLASHER WARNING LAMP

Your Ford tractor is equipped with flasher warning lamps, Figure 3. The switch for the warning lamps is located on the left center of the instrument panel.

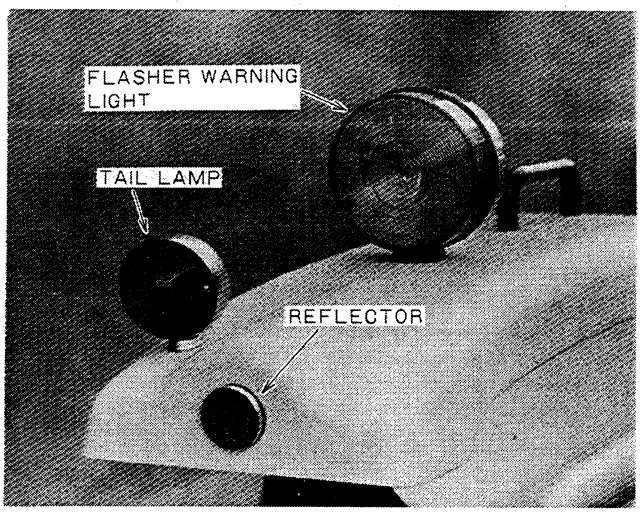



**Figure 3 — Flasher Warning and Tail Lamp**



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## BREAK-IN PROCEDURES

Your Ford Tractor will provide long and dependable service if given proper care during the 50-hour break-in period. During the first 50 hours of operation:

1. Avoid "lugging" the engine. Operating in too high a gear under heavy load may cause engine "lugging." "Lugging" is indicated when the engine will not respond to a throttle increase.
2. Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular operation. Operating the tractor in low gear with a light load and high engine speed will waste fuel.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to their recommended levels. Daily checks include:
   - Engine oil level
   - Radiator coolant
   - Air cleaner

## STARTING THE ENGINE

A safety starter switch on the tractor allows the starting motor to be used only when the clutch pedal is fully depressed. For safe operation the transmission gear shift lever must always be in neutral and the PTO lever in the off position prior to starting the engine.

**CAUTION:** Never attempt to start the engine while standing beside the tractor — always sit in the seat when starting the engine.

**IMPORTANT:** Do not engage the starting motor continuously for more than 30 seconds; doing so may cause starting motor failure.

### WARM WEATHER STARTING

To start a cold engine in warm weather or to start an engine that is warm:

1. Depress the clutch pedal fully and move the shift lever to the neutral position.
2. Move the hand throttle forward to a near full open position.
3. Turn the starter switch to the "start" position, Figure 15. When the engine starts, release the key. Check to be sure the warning lights go out. If the engine fails to start after cranking for approximately 10 seconds, refer to the following "COLD WEATHER STARTING" information.

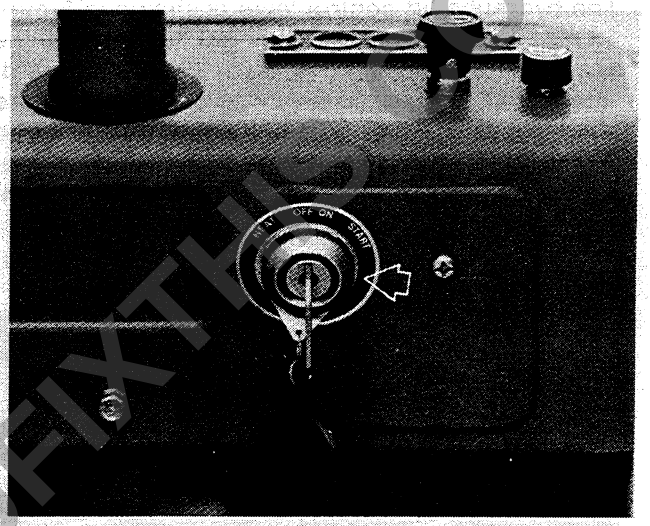



**Figure 15 — Starter Switch**

### COLD WEATHER STARTING

If the engine fails to start using the preceding warm weather starting procedure or when starting the engine in cold weather:

1. Depress the clutch pedal fully and move the shift lever to the neutral position.
2. Move the hand throttle forward to the full-open position.
3. Turn the starter switch to "heat" to preheat the precombustion chamber and wait until the cold-start aid indicator on the instrument panel shows red (approximately 30 seconds).
4. Turn the starter switch to the "start" position. When the engine starts, release the key. Check to be sure the warning lights go out.

**NOTE:** A coolant immersion heater which provides easier starting in temperatures below 0°F (−17.7°C) by warming the engine oil and coolant, is available as a dealer installed option.

### STARTING THE TRACTOR WITH JUMPER CABLES

If it is necessary to use jumper cables to start the engine, proceed with the following instructions.



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# SAFETY PRECAUTIONS

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

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved Rollbar and Seat Belt for safe operation. Overturning a tractor without a rollbar can result in death or injury. If your tractor is not equipped with a rollbar and seat belt, see your Ford Tractor Equipment Dealer.
3. Always use the seat belt when the rollbar is installed. Do not use the seat belt if the rollbar is removed from the tractor.
4. Use the handholds and step plates when mounting and dismounting the tactor to prevent falls. Keep steps and platform cleared of mud and debris.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.

## SERVICING THE TRACTOR

6. Cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while system is hot. Always turn cap slowly to the first stop and allow the pressure to escape before removing the cap entirely.
7. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for engine to cool before refueling.
8. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
9. Keep open flame away from battery or cold weather starting aids to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
10. Stop the engine before performing any service on the tractor.
11. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford Tractor-Equipment Dealer.

## OPERATING THE TRACTOR

12. Apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the down position, and the transmission in neutral before starting the tractor.
13. 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.
14. Do not bypass the safety start switch. Consult your Ford Tractor-Equipment Dealer if your safety start controls malfunction. Use jumper cables only in recommended manner, improper use can result in tractor runaway.
15. Do not get off the tractor while it is in motion.
16. Shut off the engine and apply the parking brake before getting off the tractor.
17. Do not park the tractor on a steep incline.
18. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
19. If engine ceases operating, stop the tractor immediately.
20. Pull only from the drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
21. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
22. Do not leave equipment in the raised position.
23. Use the Flasher Lights and SMV signs when traveling on public roads both day and night.
24. Be sure the lights are adjusted to prevent blinding an oncoming vehicle operator.

## DRIVING THE TRACTOR

25. Watch where you are going especially at row ends, on roads, around trees and any low hanging obstacle.
26. To avoid upsets drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, and when turning.
27. Lock tractor brake pedals together when transporting on roads to provide two wheel braking.
28. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hills.
29. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
30. When the tractor is stuck or tires frozen to the ground, back out to prevent upset.

## OPERATING THE PTO

31. When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
32. Do not wear loose clothing when operating the power take-off, or when near rotating equipment.
33. When operating stationary PTO driven equipment, always apply the tractor parking brake and block the rear wheels front and back.
34. To avoid injury, do not clear, adjust, unclog or service PTO driven equipment when the tractor engine is running.
35. Make sure the PTO master shield is installed at all times and always replace the PTO shaft cap when the PTO is not in use.

Whenever you see this symbol  it means:

**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



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# TRANSMISSION AND PTO CONTROLS

## TRANSMISSION GEARSHIFT LEVERS

The transmission main shift lever and range selector lever are shown in Figure 10. A diagram showing the shift pattern is cast into the transmission cover.

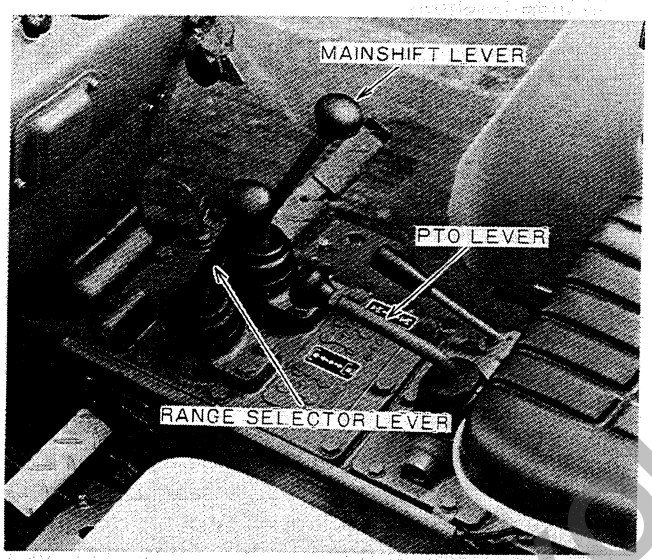



**Figure 10 — Transmission and PTO Controls**

Three forward and one reverse speed are provided for each of the four ranges. This provides a total of 12 forward and 4 reverse speeds.

## CREEPER RANGE (ACCESSORY)

A creeper range accessory with a 6.63:1 ratio is available which provides an additional 12 forward and 4 reverse speeds or a total of 24 forward and 8 reverse speeds. The control is located on the top, left-hand front of the rear-axle center housing. Full downward movement of the lever engages the creeper range. Full upward movement disengages it.

## FOUR-WHEEL DRIVE (OPTIONAL)

The shift lever for the four-wheel drive is located on the top right-hand front of the rear-axle center housing, Figure 11.

Full downward on the lever disengages the four-wheel drive (OFF). Full upward engages the four-wheel drive (ON).



**Figure 11 — Four-Wheel Drive Lever (Optional)**

## CLUTCH PEDAL

The foot-operated clutch pedal, Figure 12, must be completely depressed to start the tractor or to stop forward travel and PTO shaft rotation. Always fully depress the pedal when changing gear ratios, four-wheel drive and creeper range.

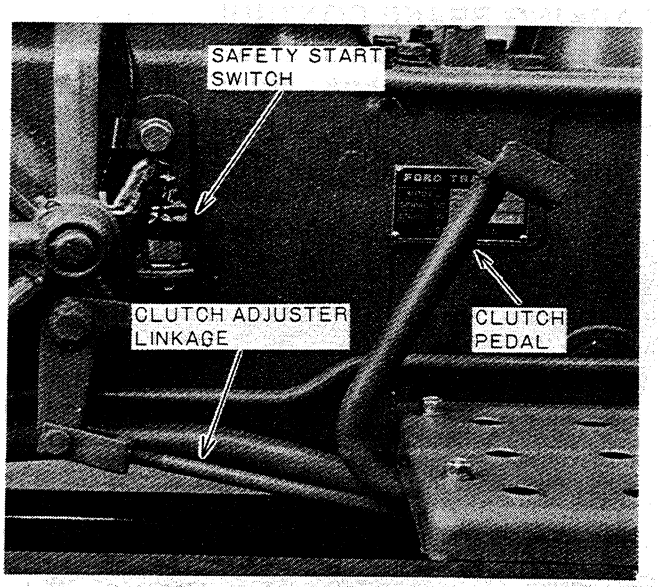



**Figure 12 — Clutch Control**

## TRANSMISSION PTO CONTROL LEVER

The transmission PTO control lever is shown in Figure 10. The lever engages and disengages the PTO. If the tractor engine is running, always depress the clutch pedal fully before moving the



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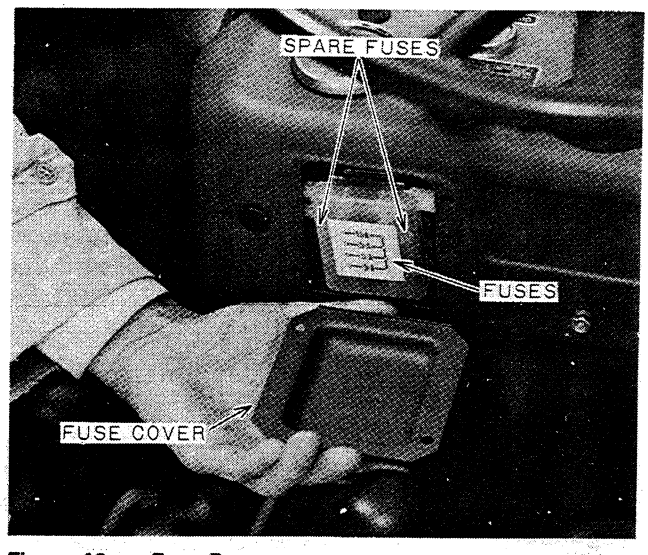



**Figure 49 — Fuse Box**

## HEADLAMPS

Should a headlamp failure occur, the bulb must be replaced. To change the bulb:

1. Raise the hood.
2. Remove three nuts securing the headlamp housing to the bracket mounted on the grille screen (Figure 50).

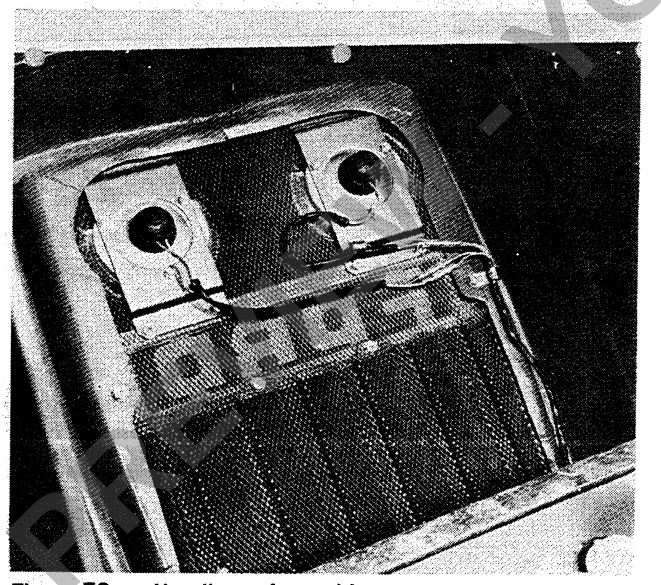


**Figure 50 — Headlamp Assembly**

3. Remove the headlamp wiring assemblies from the clamps, if necessary.
4. Disconnect wiring assembly and pull headlamp assembly from front of grille.
5. Slide rubber boot back off the lamp socket (Figure 51).
6. Remove four spring clips holding the reflector in the ring (Figure 51).

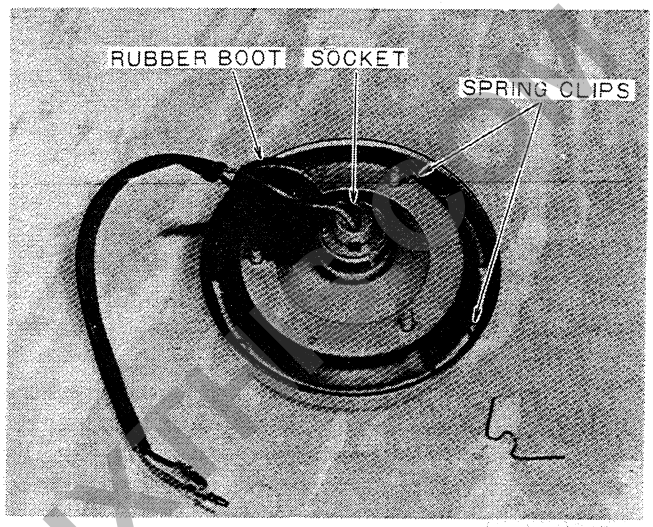



**Figure 51 — Headlamp Socket Rubber Boot**

7. Remove ring from assembly taking care not to drop the glass lens, Figure 52.
8. Remove lens and seal from front of reflector.

**NOTE:** Do not touch front of the reflector with the fingers. Damage to reflective surface may be caused by touching with the fingers.

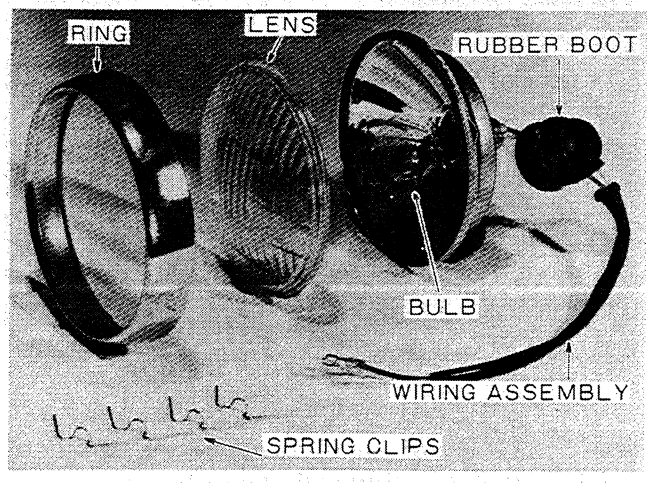



**Figure 52 — Headlamp Assembly — Disassembled**

9. Push in on spring retainer with one hand while twisting bulb with other hand to release bulb from retainer tabs (Figure 53).



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