SEAT, LIGHT, AND ENGINE CONTROLS

TRACTOR SEAT

Your Ford 1510 Tractor is equipped with a suspension seat as shown in Figure 1. The seat is adjustable to obtain the most comfortable position.

To move the seat fore and aft, move the seat release lever to the forward and slide the seat fore or aft as desired, Figure 2.

To adjust the seat for flotation, turn the flotation adjustment bolt right for a firm ride, or left for a soft ride, Figure 2.

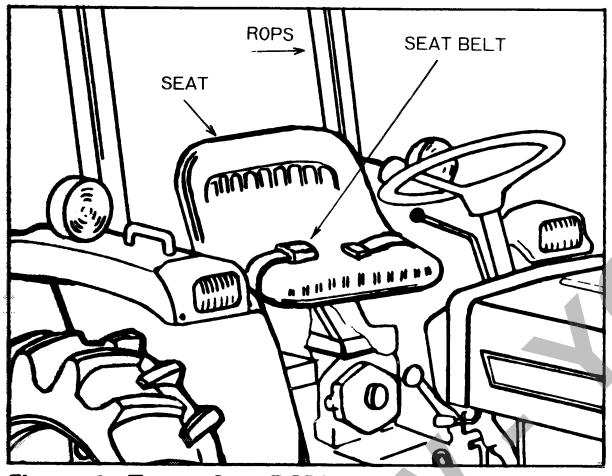


Figure 1—Tractor Seat, ROPS and Seat, Belt

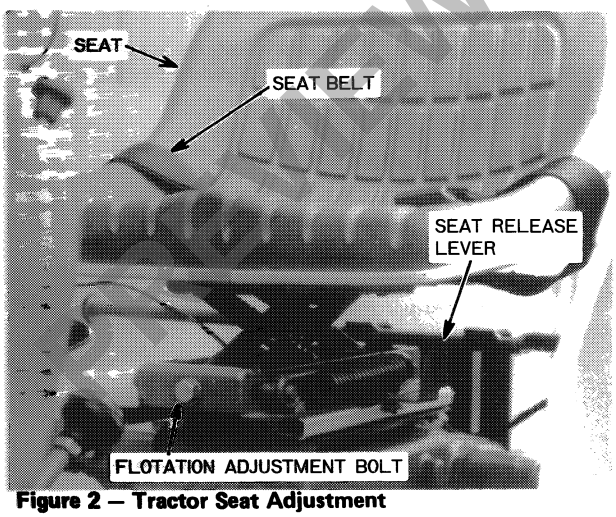


Figure 2 — Tractor Seat Adjustment

ROLL OVER PROTECTIVE STRUCTURE (ROPS)

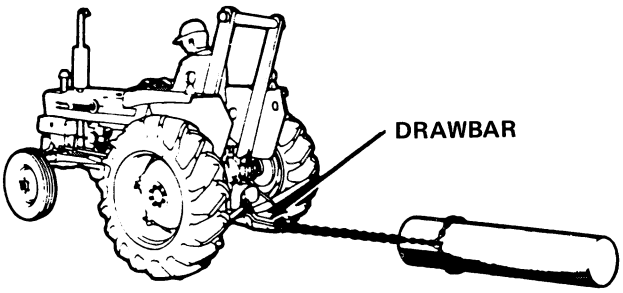
A Roll Over Protective Structure (ROPS) and seat belts were standard equipment for this tractor at time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure (ROPS) and seat belts. ROPS are effective in reducing injuries during tractor overturn accidents. Overturning tractor without a ROPS can result in serious injury or death.

Roll Over Protective Structure (ROPS), and seat belts are available from your Ford Tractor Equipment Dealer.

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.

WARNING: Always wear the seat belt when the tractor is equipped with a ROPS. DO NOT use the seat belt if the ROPS is removed from the tractor.

WARNING: DO NOT attach chains or ropes to the roll bar for pulling purposes since the tractor can 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 overhead clearance for the roll bar.



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.

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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", which 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 key switch on the tractor allows the starting motor to be used only when the main shift lever is in neutral position. For safe operation the range selector lever and P. T. O. lever should be in neutral position prior to starting the engine.

WARNING: 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 rearward to a near full open position.
3. Turn the key switch to the "start" position, Figure 19. 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.

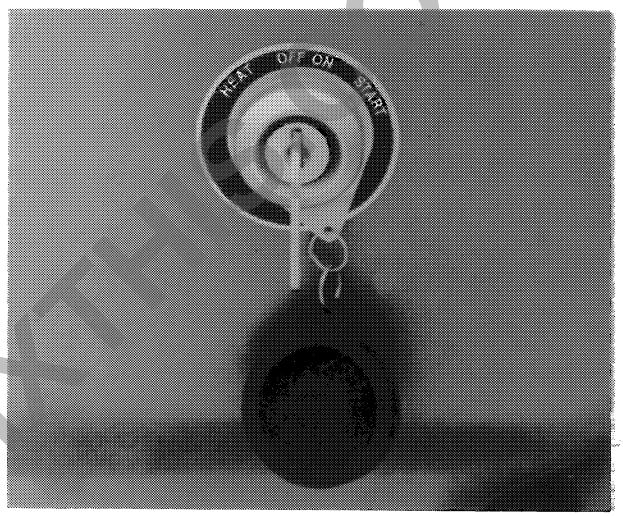


Figure 19 — Key Switch

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 rearward to the wide-open position.
3. Turn the key switch to "heat" to preheat the precombustion chambers and wait until the cold-start aid indicator shows red (approximately 20 seconds).
4. Turn the key switch to the "start" position. When the engine starts, release the key. Check to be sure the warning lights go out.

WARNING: Do not use ether with the thermostart starting aid.

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

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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 precatuions. 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 Fod Tractor Equipment Dealer.

3. Always use the seat belt. Do not use the seat belt if the rollbar has been removed from the tractor.

4. If a front end loader is to be installed, always use a ROPS canopy to avoid injury from falling objects.

5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.

6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.

7. Replace all missing, illegible, or damaged safety decals. See list of decals on page 53.

8. Keep safety decals clean of dirt and grime.

SERVICING THE TRACTOR

1. The 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.

2. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for engine to cool before refueling.

3. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.

4. 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.

5. Stop the engine before performing any service on the tractor.

6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
   - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
   - Stop engine and relieve pressure before connecting or disconnecting lines.
   - Tighten all connections before starting engine or pressurizing lines.

   If fluid is injected into the skin obtain medical attention immediately or gangrene may result.

7. 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.

8. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.

9. Continuous long term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

10. Some components on your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.), may contain asbestos. Breathing asbestos dust is dangerous to your health. You are therefore advised to have any maintenance or repair operations on such components carried out by an authorized Ford tractor dealer. If, however, service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:
    - Work out of doors or in a well ventilated area.
    - Dust found on the tractor or produced during work on the tractor should be removed by extraction not by blowing.
    - Dust waste should be dampened, placed in a sealed container and marked to ensure safe disposal.
    - If any cutting, drilling, etc., is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

11. Continuous long term contact with used engine oil has caused skin cancer in animal tests. Avoid prolonged skin contact with used engine oil. Wash skin promptly with soap and water.

OPERATING THE TRACTOR

1. Apply the parking brake, place the P.T.O. lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral before starting the tractor.

2. 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.

3. Do not bypass the neutral start switch. Consult your Ford Tractor-Equipment Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.

4. Avoid accidental contact with the gear shift lever while the engine is running. Unexpected tractor movement can result from such contact.

5. Do not get off the tractor while it is in motion.

6. Disengage PTO, shut off the engine and apply the parking brake before getting off the tractor.

7. Do not park the tractor on a steep incline.

(cont.)

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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 13.

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

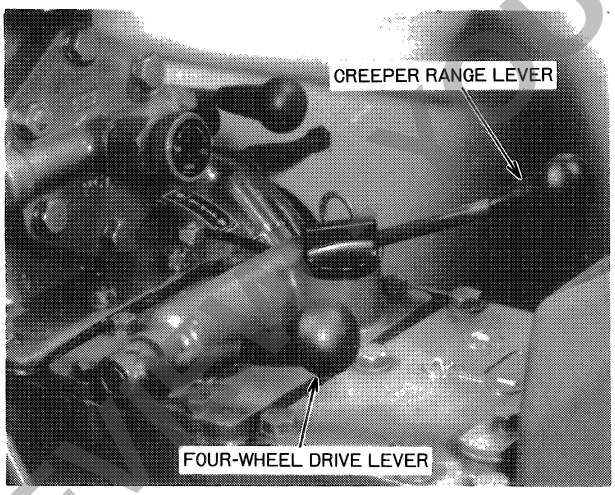


Figure 13 — Four-Wheel Drive Lever (Optional)

CLUTCH PEDAL

The foot-operated clutch pedal, Figure 14, must be completely depressed to start the tractor or to stop forward travel and P. T. O. shaft rotation. Always fully depress the pedal when changing gear ratios or engaging four-wheel drive or creeper range.

DUAL CLUTCH (OPTIONAL)

A dual clutch option is available which allows stopping tractor movement while the P. T. O. shaft continues rotation.

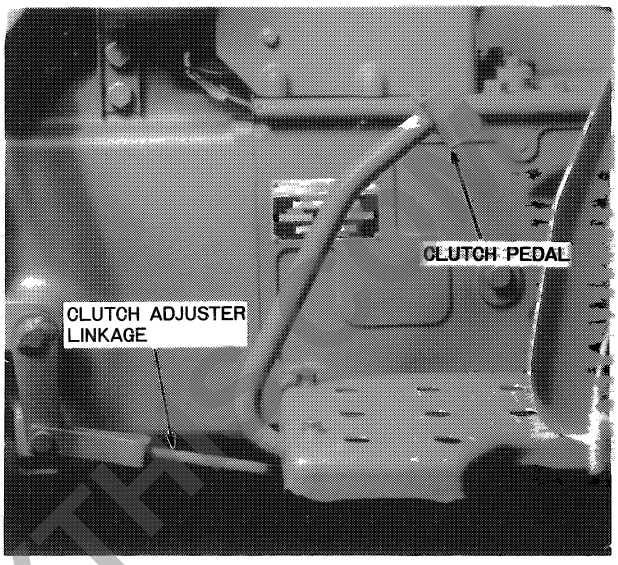


Figure 14 — Clutch Control

When the clutch pedal is depressed to position (1), Figure 15, the tractor movement stops while the P. T. O. shaft continues rotation (if the P. T. O. is engaged). If the pedal is depressed completely (2), both tractor and P. T. O. motion stop.

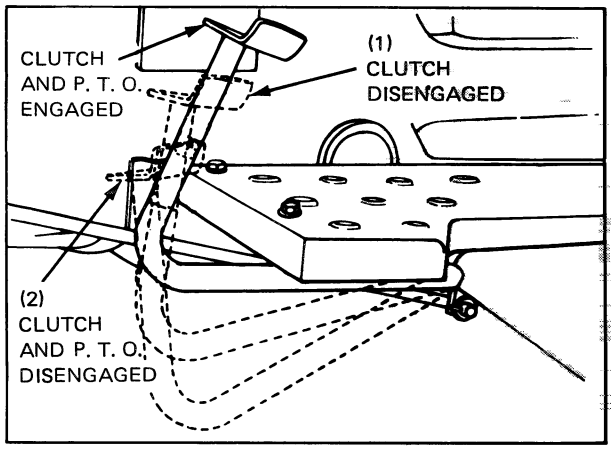


Figure 15 — Dual Clutch (Optional)

TRANSMISSION P. T. O. CONTROL LEVER

The transmission P. T. O. control lever is shown in Figure 16. The lever engages and disengages the P. T. O. If the tractor engine is running, always depress the clutch pedal fully before moving the lever. Move the lever rearward or up to engage the P. T. O. and forward or down to disengage the P. T. O.

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common sump (for the hydraulic lift, transmission, rear axle and optional power steering), and optional front wheel drive axle.

3. Install a fully-charged battery and remove the exhaust cover, if other than a rain cap.
4. Check the cooling system for proper level of 50/50 solution of antifreeze and clear water.
5. Remove pedal spacer from between clutch pedal and step plate.
6. Start the engine and allow it to idle a few minutes. Be sure the engine is receiving lubrication and that each control is functioning correctly.
7. Drive the tractor without a load and check to be sure it is operating satisfactorily.

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