FORD

Operator's Manual

Tractors
230A, 340A, 445, 530A, 540A, 545

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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 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 roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your Ford Tractor Equipment Dealer.
3. Always use the seat belt when the roll bar is installed. Do not use the seat belt if the roll bar is removed from the tractor.
4. 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.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
6. Replace safety and warning decals when they become illegible.
7. Keep the operator's platform free of debris.

SERVICING THE TRACTOR

1. 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.
5. Stop the engine before performing any service on the tractor.

OPERATING THE TRACTOR

1. Apply the parking brake, place the PTO 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 starter safety switch. Consult your Ford Tractor-Equipment Dealer if your starter safety controls malfunction. Use jumper cables only in recommended manner, improper use can result in tractor runaway.
4. Do not get off the tractor while it is in motion.
5. Shut off the engine and apply the parking brake before getting off the tractor.
6. Always apply the parking brake and remove the starter key when leaving the unit parked or unattended.
7. Do not park the tractor on a steep incline.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
9. If power steering or engine ceases operating, stop the tractor immediately.
10. Pull only from the swinging drawbar or the lower link drawbar in the down position with stays installed. 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.
11. 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.
12. Always set the hydraulic selector lever in position control when attaching equipment, when transporting equipment or when no equipment is attached. Be sure hydraulic couplers are properly mounted and will disconnect safely in case of accidental uncoupling.
13. Do not leave equipment in the raised position.
14. Use the Flasher/Turn Signal lights and SMV signs when traveling on public roads both day and night unless prohibited by law.
15. Dim tractor lights when meeting a vehicle at night. Be sure the lights are adjusted to prevent blinding an oncoming vehicle operator.

DRIVING THE TRACTOR

1. Watch where you are going especially at row ends, on roads, around trees and any low hanging obstacle.
2. 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.
3. Lock tractor brake pedals together when transporting on roads to provide two wheel braking.
4. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hills.
5. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
6. When the tractor is stuck, back out to prevent upset.
7. Always check overhead clearances, especially when transporting the tractor.

Whenever you see this symbol  it means: ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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CONTROLS and INSTRUMENTS

Before attempting to start or operate your new tractor, familiarize yourself with the location and function of all controls and instruments as described on the following pages.

The instruments and warning lights are centrally located so that you can tell at a glance whether the tractor is operating properly. The warning lights also warn you of possible trouble before it becomes serious.

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Know your Controls and Instruments to assure Safe Operation.

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FLOW CONTROL

The flow control knob (1) is shown in Figure 20. Rotate the valve knob to speed up or slow down the response of the hydraulic lift system. Refer to page 27 for additional operating information.

NOTE: *Not used with engine mounted piston pump.*

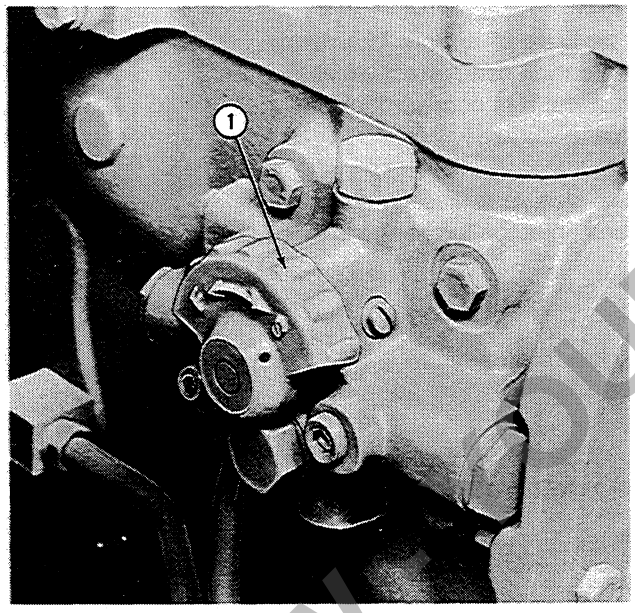


Figure 20
Flow Control
1. Flow Control Knob

AUXILIARY SERVICE CONTROL VALVE (ACCESSORY)

The auxiliary service control valve (1), Figure 21, permits the use of single-acting remote cylinders on tractors not equipped with remote control valves. The valve, Figure 21, is available as an option from your Ford Tractor-Equipment Dealer. The knob positions for various operating conditions are shown in Figure 21 and the operating instructions are covered on page 28.

REMOTE CONTROL VALVES (OPTIONAL)

Single and double spool remote control valves, Figure 22, are available for your Ford Tractor. For further information refer to page 28.

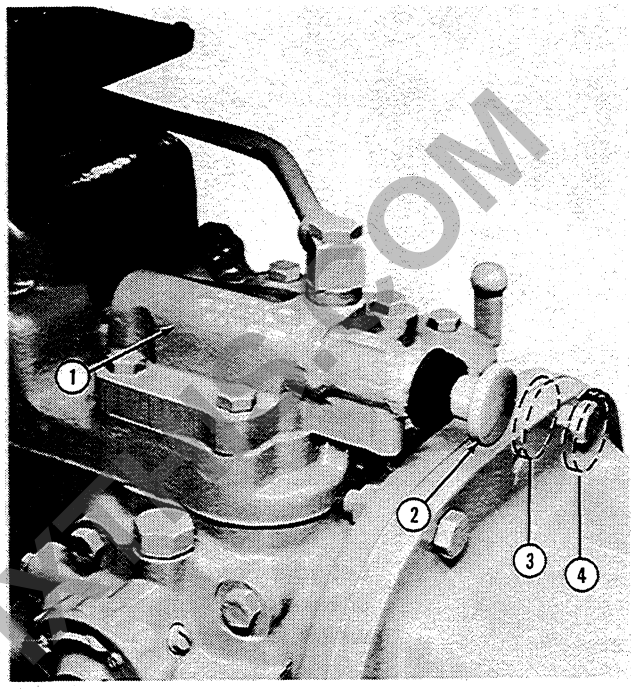


Figure 21
Auxiliary Service Control Valve
1. Auxiliary Service Control Valve
2. Lift Linkage Only
3. Lift Linkage and Remote Cylinder
4. Remote Cylinder Only

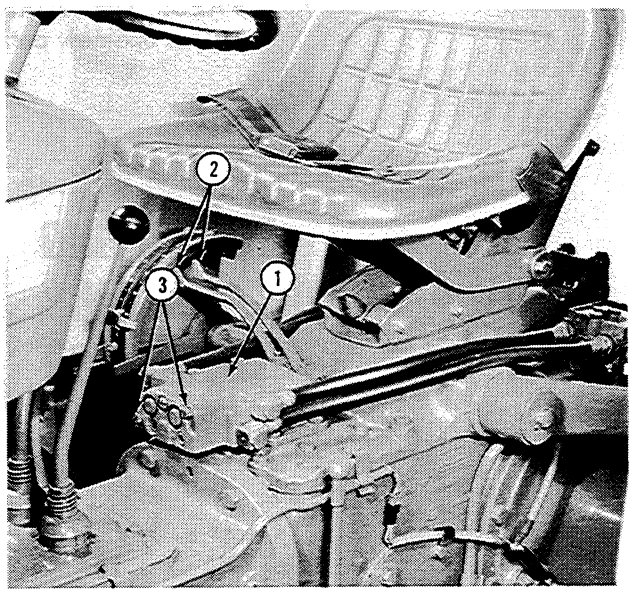


Figure 22
Remote Control Valve
1. Remote Control Valve (Double Spool Shown)
2. Valve Control Handles
3. Float Valves

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LUBRICATION and MAINTENANCE

This section deals with lubrication and maintenance. Fuel and lubricant storage, detailed maintenance procedures and the recommended hourly service intervals listed on the lubrication and maintenance chart are covered in this section. Regular attention at the specified time will pay dividends in maximum efficiency and longer life of your Ford Tractor.

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SPECIFICATIONS

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"Ford Motor Company, whose policy is one of continuous improvement, reserves the right to make changes in design and specifications at any time without notice and without obligation to modify units previously built."

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