## GENERAL

### OPERATOR'S SEAT

Your new Ford 7500 is equipped with a "turnabout" type seat, Figure 1. It can be adjusted forward or rearward a maximum of seven inches (17.8 cm) by moving the seat release lever. The height can also be changed two inches (5.0 cm) to suit the operator by loosening the height adjustment knob.

Once the seat is adjusted for operator comfort, in the loader operating position, it can be turned to the backhoe position by releasing the seat release lever. See Figures 2 and 3. Once the seat is adjusted for loader operation it will usually suit the operator for backhoe operation without additional adjustments.

### ROLL OVER PROTECTIVE FRAMES (OPTIONAL)

The Ford 7500 is available with a safety frame cab and seat belt, Figure 4, or a 4-post protective frame and seat belt. Remember, the safety offered by the protective frames will be minimized if your seat belt is not buckled. Always use your seat belt – they save lives. DO NOT use the seat belt if the safety frame cab or 4-post protective frame has been removed from the tractor.

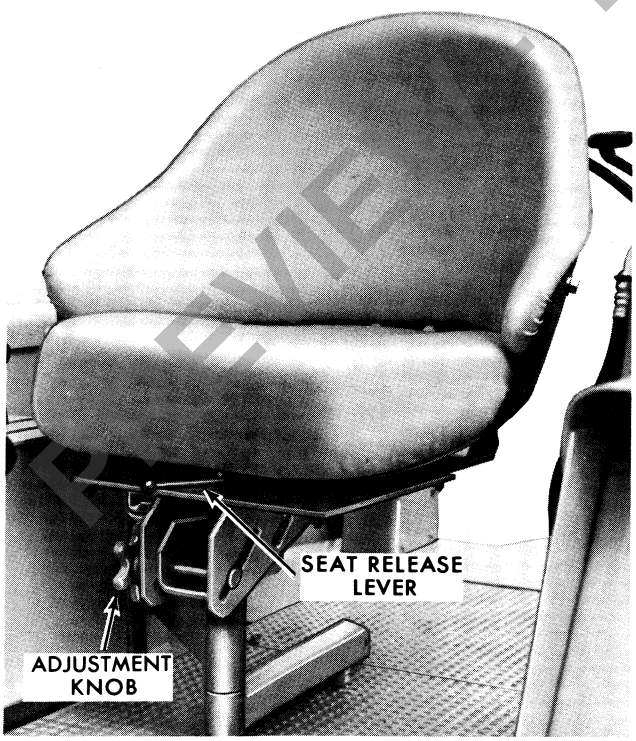



**Figure 1**
**Operator's Seat**

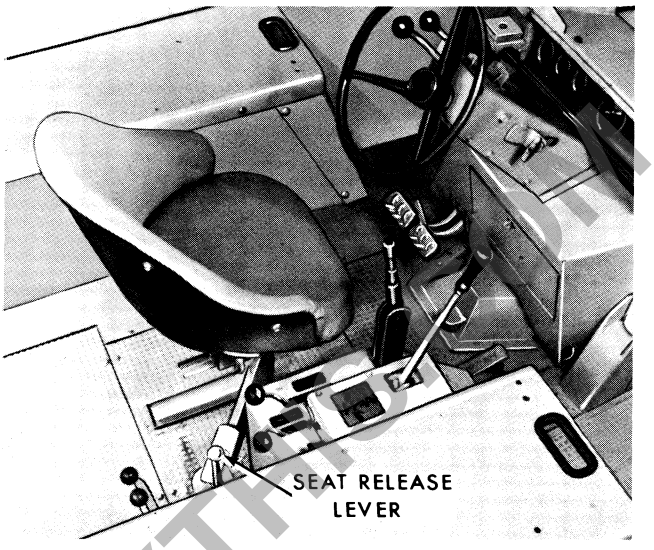



**Figure 2**
**Operator's Seat—Traveling and Loader Position**

**CAUTION: Never attach chains, ropes, or cables to the roll over protective frames for pulling purposes. This is very dangerous, as the tractor will tip backward. Always pull from the tractor drawbar or from a point below the rear axle. Be careful when driving through door openings or under low overhead objects. Make sure there is sufficient clearance for the roll over protective frames to clear the structure or object.**

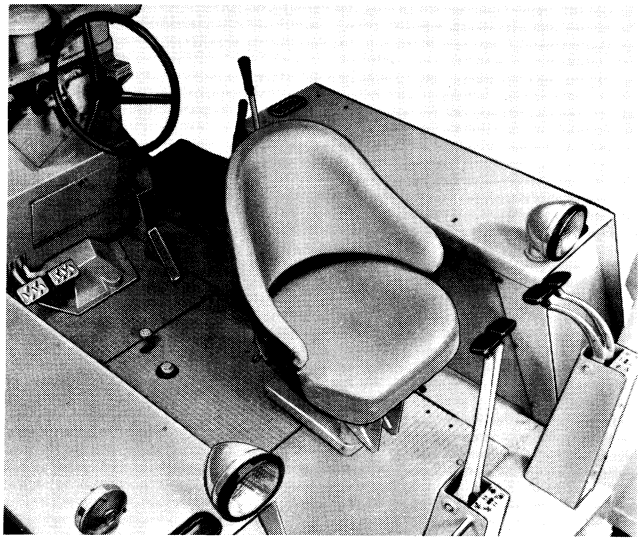


**Figure 3**
**Operator's Seat—Backhoe Position**



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## BREAK-IN PROCEDURES

Your new Ford 7500 will provide long and dependable service if given the proper care during the first 50-hour break-in period. During the first 50 hours of operation:

1. Use first gear when moving heavy loads and avoid continuous operation at constant engine speed.

2. Avoid prolonged operation at either high or low engine speed without a load on the engine.

3. Check the instruments frequently and keep the radiator and oil reservoirs filled to their recommended levels. Daily checks include:

- Radiator coolant level
- Engine oil level
- Hydraulic system oil level
- Transmission oil level
- Rear axle oil level

4. To ensure adequate lubrication, idle the engine at 1000 rpm for one minute before placing a load on the engine. Do not race the engine during the warm-up period.

5. After the engine has warmed sufficiently, cycle the loader or backhoe cylinders several times to warm the hydraulic system oil.

## STARTING THE ENGINE

A safety starter switch on the Ford 7500 allows the starting motor to be used only when the transmission shuttle lever is in neutral. It is also recommended that the hand brake be applied before starting the engine.

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

**IMPORTANT: Do not crank the starting motor continuously for more than two minutes; 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. Move the transmission shuttle lever to neutral and move the hand throttle to the half-open position. Make sure the diesel engine stop control is all the way forward.

2. Turn the key to its "START" position, Figure 21, When the engine starts, release the key. If the engine fails to start after cranking for approximately 10 seconds, refer to the following "COLD WEATHER STARTING" information.

**IMPORTANT: To assure adequate turbocharger lubrication, idle the engine for approximately one minute at 1000 rpm before driving the tractor. Do not "race" the engine during the one minute warm up period.**

### COLD WEATHER STARTING

If the engine fails to start using the warm weather starting procedures outlined above, use the excess fuel button, Figure 10, as covered in this procedure. When temperatures are extremely low, it is recommended that the Ether Spray Primer, or the Coolant Immersion Heater (Accessory) be used as a starting aid. Refer to "COLD WEATHER STARTING AIDS" page 17.

1. Check to be sure the hand brake is engaged, then move the transmission shuttle lever to the neutral position.

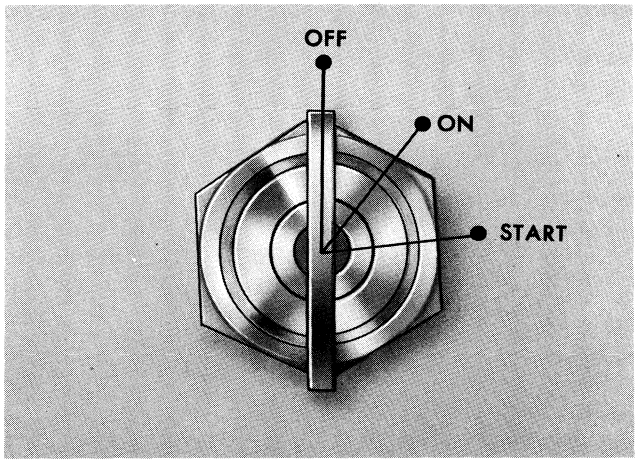



**Figure 21**
**Key Starter Switch Positions**



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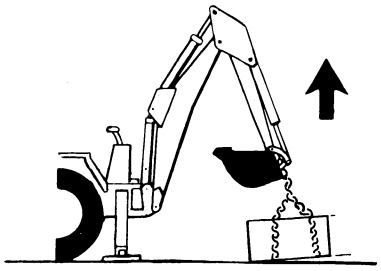
### BACKFILLING

Backfill by lifting the bucket over the spoil pile and then crowding in. Pull both the crowd and lift levers for smooth, even backfilling.

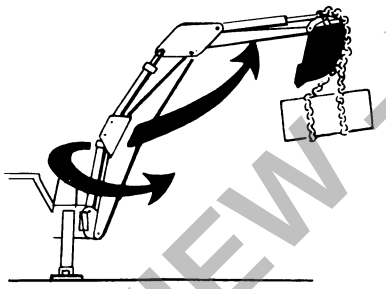
**IMPORTANT: Do not backfill by using the swing circuit and dragging the bucket sideways. Doing so can cause damage to the dipstick, boom, swing cylinders, or mainframe.**

### LIFTING

The backhoe can be used in lifting applications by attaching a chain to the hook on the bucket link.

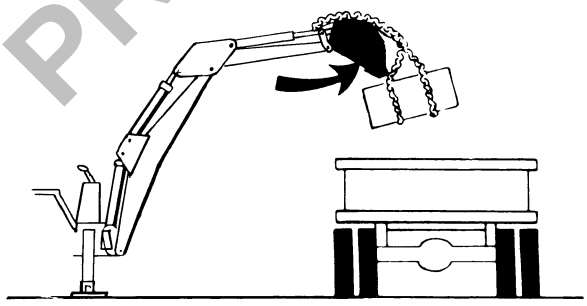


Lift with the bucket curled in and the dipstick in close.



Crowd out to push the load up and out. Then, **swing slowly** into position.

For final lift, roll the bucket out. This allows for accurate height adjustment.

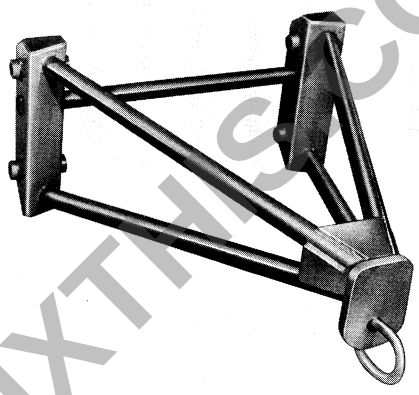


After the bucket is rolled out, slowly lower the load into place.

## LOADER AND BACKHOE ATTACHMENTS

The following attachments, especially designed for use on your new Ford 7500, are available through your Ford Tractor-Equipment Dealer.

**Industrial Crane, Component 19-470:**

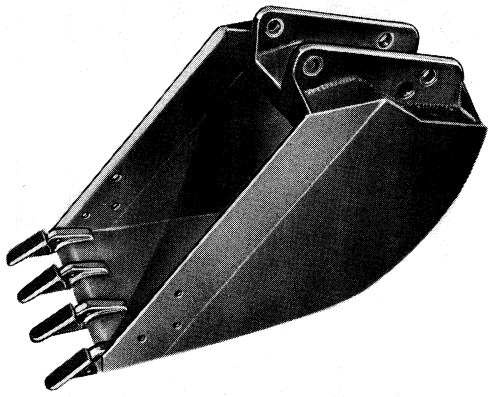


This crane attachment provides a 14-foot, 3-inch (434 cm) lift height and a 6-foot, 2-inch (188 cm) maximum reach. Lift capacity at maximum height is 3500 pounds (1588 kg) and at the maximum reach is 3000 pounds (1360 kg). Height at maximum reach is 11 feet, 9 inches (258 cm). This crane is easy to attach or detach and will perform any number of lifting jobs.

**Heavy Duty Trenching Bucket, Component 19-589:**

Cutting Width: 18" (45.7 cm)
Capacity: 7 cu. ft. (.198 cu. meters)
Weight: 415 lbs. (188 kg) (approximate)

**Heavy Duty Trenching Bucket, Component 19-590:**

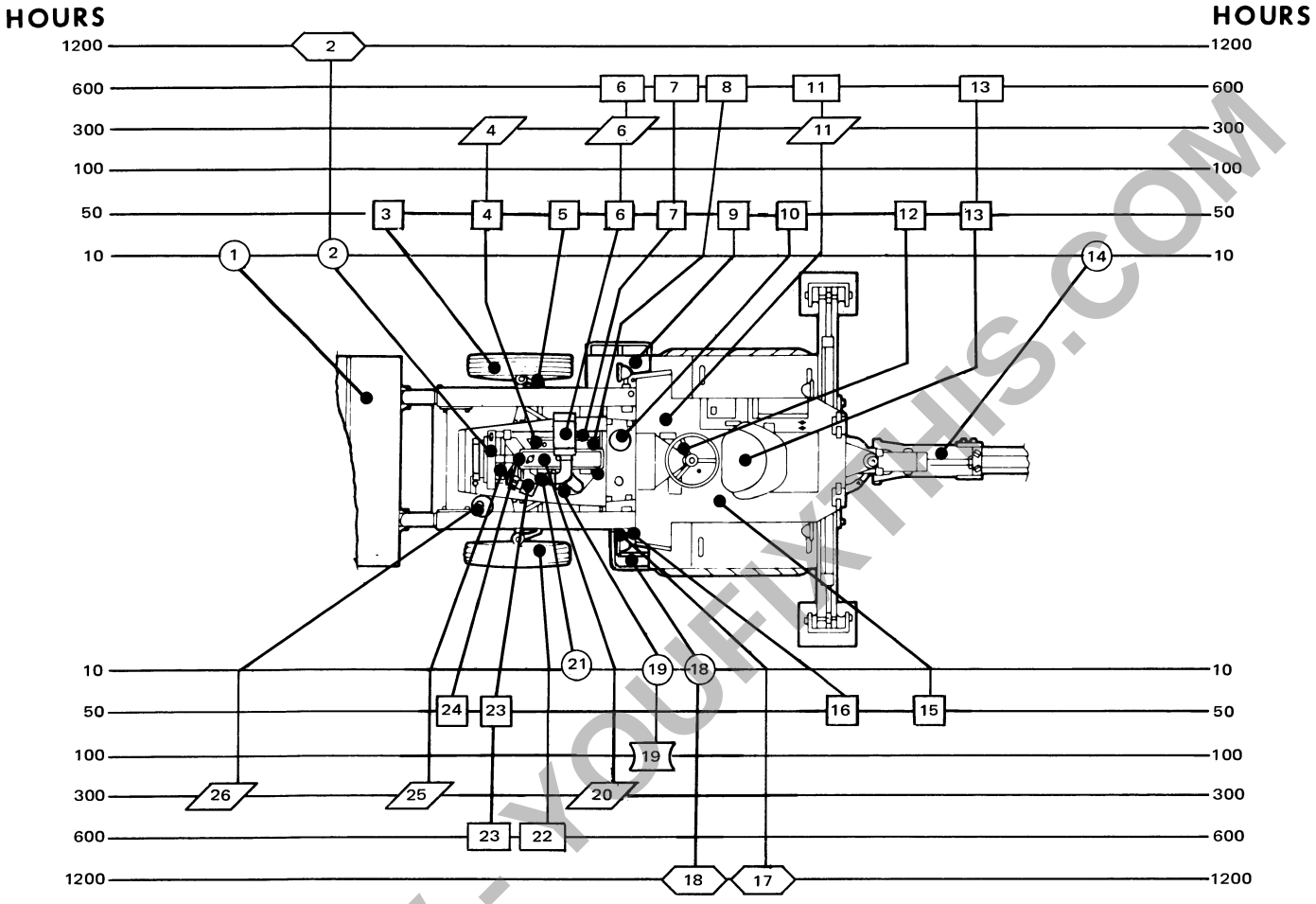


Cutting Width: 24" (60.9 cm)
Capacity: 10 cu. ft. (.283 cu. meters)
Weight: 465 lbs. (211 kg) (approximate)



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| NO. | LUBRICATION AND MAINTENANCE ITEM | CHECK | CLEAN | LUBE | CHANGE | ADJUST | PAGE NO. | SERVICE INTERVAL |
|---|---|---|---|---|---|---|---|---|
| 1 | Loader Lubrication Fittings (See Figure 50) | | | X | | | 51 | Every (10) Hours or Daily |
| 14 | Backhoe Lubrication Fittings (See Figure 51) | | | X | | | 52 | |
| 19 | Engine Oil Level | X | | | | | 43 | |
| 2 | Radiator | X | | | | | 52 | |
| 18 | Hydraulic System Oil Level | X | | | | | 48 | |
| 21 | Air Cleaner Restriction Gauge | X | | | | | 7 | |
| 6 | Air Cleaner Element (Outer) | | X | | | | 45 | Every (50) Hours |
| 10 | Air Cleaner Inlet Cap | | X | | | | 45 | |
| 9 | Battery | X | | | | | 58 | |
| | Cab Pressurizer Air Filter | | X | | | | 46 | |
| 12 | Transmission Oil | X | | | | | 46 | |
| 23 | Power Steering Oil | X | | | | | 50 | |
| 4 | Fuel Injection Pump Oil | X | | | | | 43 | |
| 7 | Fuel Filter | | | DRAIN | | | 44 | |
| 3 | Tires | X | | | | | 21 | |
| 13 | Rear Axle Oil Level | X | | | | | 48 | |
| | Chassis Lubrication Fittings: | | | | | | | |
| 5 | · Front Wheel Spindles | | | X | | | 51 | |
| 15 | · Brake Pedal Pivots | | | X | | | 51 | |
| 24 | · Front Axle Pivot Pin | | | X | | | 51 | |
| 16 | Hydraulic System Oil Breather | | X | | | | 48 | |

| NO. | LUBRICATION AND MAINTENANCE ITEM | CHECK | CLEAN | LUBE | CHANGE | ADJUST | PAGE NO. | SERVICE INTERVAL |
|---|---|---|---|---|---|---|---|---|
| | (Continued) | | | | | | | Every |
| 19 | Engine Oil and Filter | | | | X | | 43 | 100 Hours |
| 20 | Valve Clearance | X | | | | X | 57 | |
| 6 | Air Cleaner Element (Outer) | | X | | | | 45 | |
| | Cab Pressurizer Air Filter | | | | X | | 46 | Every |
| 25 | Fan Belt | X | | | | X | 54 | 300 |
| 4 | Fuel Injection Pump Oil and Breather | | X | | X | | 44 | Hours |
| 11 | Transmission Oil Filter | | | | X | | 47 | |
| 26 | Hydraulic System Oil Filter | | | | X | | 49 | |
| 23 | Power Steering Oil and Filter | | | | X | | 50 | |
| 6 | Air Cleaner Element (Outer) | | | | X | | 45 | Every |
| 8 | Fuel Injectors | X | | | | X | 55 | 600 |
| 11 | Transmission Oil and Filter | | | | X | | 47 | |
| 22 | Front Wheel Bearings | | | X | | | 60 | Hours |
| 13 | Rear Axle Oil | | | | X | | 48 | |
| 7 | Fuel Filter Element | | | | X | | 44 | |
| 18 | Hydraulic System Oil | | | | X | | 49 | Every |
| 17 | Hydraulic Reservoir Outlet Screen | | X | | | | — | 1200 Hours |
| 2 | Radiator Coolant | | | | X | | 52 | Seasonal |

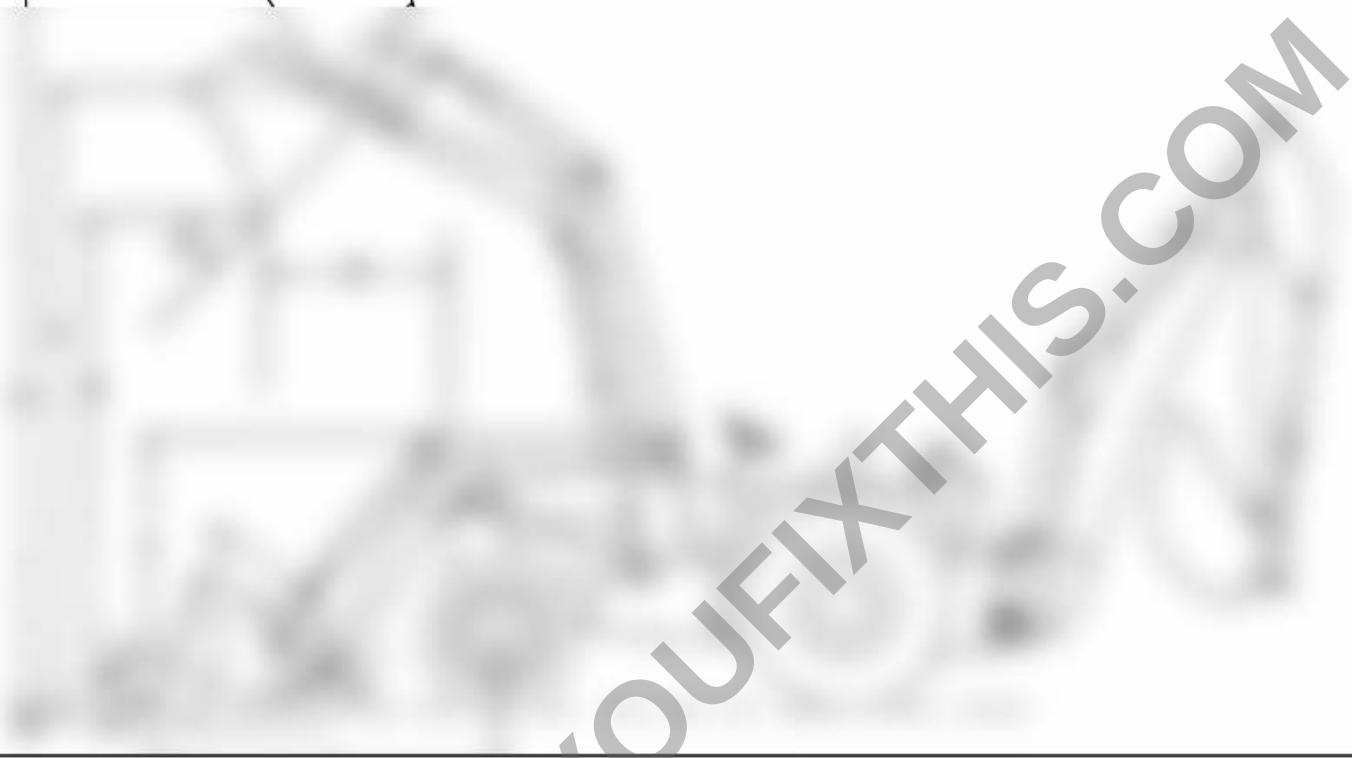
LUBRICATION AND MAINTENANCE CHART — FORD 7500



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# SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions to prevent the possibility of injury or damage. The following precautions are suggested to help prevent accidents. Read them carefully before operating your new Ford 7500.

1. Read this manual carefully to acquaint yourself with the Ford 7500. Working with unfamiliar equipment can lead to accidents.
2. Use the hand holds when getting on and off the Ford 7500.
3. For safe operation, observe proper maintenance and repair of all pivot pins, hydraulic cylinders, hoses, snap rings, and main attaching bolts prior to each day's operation.
4. If the unit is equipped with a rollbar or safety cab, always fasten the seat belt before starting the engine.
5. Keep the operator's platform free of debris.
6. Do not bypass the safety starter switch. Consult your Ford Tractor-Equipment Dealer if your safety starter controls are malfunctioning.
7. Always be sure of water, gas, sewage, and electrical line locations before you start to dig.
8. Never start the engine while standing beside the unit. Always start the engine while sitting in the operator's seat.
9. Never run the engine in a closed building without adequate ventilation, as the exhaust fumes are very dangerous.
10. Do not permit anyone to ride on the Ford 7500 with the operator.
11. Operate the loader or backhoe controls only when properly seated at the control consoles.
12. Never attempt to lift loads in excess of loader or backhoe capacity.
13. Never allow anyone to get under the loader or backhoe buckets, or reach through the lift arms when the buckets are raised.
14. Always be watchful of bystanders when operating the loader, when lowering the stabilizers, or when operating the backhoe.
15. Use care when operating on steep grades to maintain proper stability, also drive at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, or when turning.
16. To prevent upsets, avoid full reach and swinging a loaded backhoe bucket to the downhill side when operating on a slope.
17. Watch out for overhead and underground high-voltage electrical lines when operating the backhoe.
18. Exercise caution when operating the loader with a raised loaded bucket or fork.
19. Always carry the loader bucket low for maximum stability and visibility, whether the bucket is loaded or empty.
20. Always use the headlamps and work lamps for night work.
21. Always lower the loader and backhoe buckets to the ground, shut off the engine and apply the hand brake before getting off the unit. Never get off the unit while it is in motion.
22. Always apply the hand brake and remove the starter key when leaving the unit parked or unattended.
23. 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 buckets so that the cutting lips contact the ground, apply the hand brake, and securely block the wheels.
24. Always check overhead clearance, especially when transporting the unit.
25. Always attach the backhoe transport chains before transporting the Ford 7500.
26. Never attach chains, ropes, or cables to the rollbar for pulling purposes, as the unit can tip rearward.
27. When necessary to tow the Ford 7500, do not exceed 5 mph (8.0 kph).
28. When traveling on public roads, use accessory lights and devices for adequate warning to operators of other vehicles.
29. Do not lubricate or make mechanical adjustments while the unit is in motion or when the engine is running. However, if minor engine adjustments must be made, apply the hand brake, securely block the wheels, and use extreme caution.
30. Never make repairs or tighten hydraulic hoses or fittings when the system is under pressure, when the engine is running, or when the loader or backhoe cylinders are under a load.
31. Never refuel the Ford 7500 while smoking or when the engine is hot or running.
32. Always keep the brakes and power steering system in good operating condition.

Whenever you see this symbol  it means:

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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# Warranty and Limitation of Liability
# Ford Tractors and Equipment

**COVERAGE PROVIDED**

Ford Motor Company and the Selling Dealer jointly warrant to the original purchaser with respect to each Ford Tractor, Ford Implement or piece of Ford Equipment that for the periods specified herein, the Selling Dealer will repair or replace any part that is found to be defective in factory materials or workmanship.

Tractors designated for agricultural use ..... 12 Months

Self-propelled combines and attachments ..... 12 Months

Garden tractors, rider mowers and related attachments ..... 12 Months
Except commercial usage in which case coverage is ..... 90 Days

Tractors and related equipment designated for industrial usage ..... 6 Months

Agricultural implements except self-propelled combines and attachments ..... 6 Months

- The warranty period will begin on the date of original retail delivery or date of original use, whichever is earlier.
- The obligation of Ford and the Selling Dealer under this warranty is limited to repairs or replacements which will be made free of charge for both parts and labor using Ford service parts.
- The repairs or replacements will be performed by the Selling Dealer following delivery of the unit by the customer to the dealer's place of business in the United States.
- If the owner is traveling or has moved a long distance from the Selling Dealer, any authorized Ford Tractor and Equipment Dealer will perform the repairs.
- The Selling Dealer shall review these warranty provisions with his customer, secure his customer's acknowledgement of delivery of this warranty and record the date of original retail delivery.

**WHAT IS NOT COVERED BY THE WARRANTY**

1. This warranty shall NOT apply to any Ford Tractor, Ford Implement or Ford Equipment:
   (i) With respect to vendor warranted items such as tires and tubes and attachments, or to batteries which are covered by the Ford Parts and Accessories Warranty.
   (ii) With respect to vendor warranted items on the Series 340 Compact Loader which includes engine, battery, tires and tubes and attachments.
   (iii) If it has been subject to misapplication, abuse, misuse, negligence, or fire or other accident, or
   (iv) If parts not made or supplied by Ford have been used in connection with it if, in the sole judgment of Ford, such use affects its performance, stability or reliability, or
   (v) If it has been altered or repaired outside of a Ford location in a manner which, in the sole judgment of Ford, affects its performance, stability or reliability.
2. This warranty shall NOT apply to normal maintenance services (such as tune-ups, fuel system cleaning and wheel, brake and clutch adjustments) or to normal replacement of service items (such as filters and brake or clutch linings) or to normal deterioration due to use and exposure (such as belts and exterior finish).
3. This warranty shall NOT apply to any Ford unit which is distributed by anyone other than Ford Tractor and Equipment Operations - North America through its dealers in the United States. This warranty shall NOT apply to any Ford unit which is normally operated outside of the United States.

**DISCLAIMER OF IMPLIED WARRANTIES**

**Except for personal injuries proven to have been caused by a defect, THIS WARRANTY, to the extent allowed by law, IS EXPRESSLY IN LIEU OF any other express or implied warranty, condition or guarantee agreement or representation by any person with respect to any Ford Tractor, Ford Implement or Ford Equipment or any part thereof, including ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.**

- Ford Motor Company and its authorized dealers will not assume any responsibility under this warranty for any loss of use of the unit, loss of time, inconvenience, commercial loss or consequential damages.
- No person is authorized to make any representations beyond those expressed herein.

**RIGHT TO MAKE DESIGN CHANGES**

Ford Motor Company reserves the right to make changes in the design of and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it or sold or shipped by it.



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