CAUTION: *Study SAFETY PRECAUTIONS, page 4 before operating the tractor.*

BREAK-IN PROCEDURES

During the first 50 hours of operation avoid prolonged engine operation at a constant rpm or with little or no load. Also observe the operation notes below.

OPERATION NOTES

- Avoid overloading (lugging) the engine. Lugging occurs when the engine speed will not increase when the throttle is increased.
- Use the highest gear in which lugging does not occur to minimize engine wear and conserve fuel.
- Check coolant, lubricant, and power steering levels as described in the maintenance section.
- Observe the instruments and warning lights for indication of a malfunction.
- Study this manual and be familiar with all controls, instruments, warning lights, and procedures before operating the tractor.

STARTING THE ENGINE

(Follow procedures in Figures 35 thru 43)

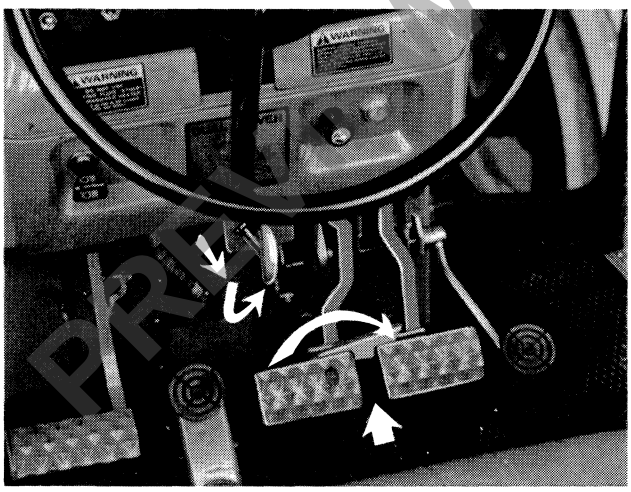


Figure 35
Parking Brake Applied

Lock the brake pedals together and depress the brakes while pulling and rotating the parking brake lever as illustrated.

CAUTION: *For safety reasons, always apply the parking brake before starting the tractor.*



Figure 36
Lift Control Lever in the Down Position

Place the lift control lever in the down position, Figure 36, to prevent sudden raising of the lift linkage (and attached equipment).



Figure 37
Remote Control Valve Levers in the Neutral Position

Relieve pressure on the remote control valve circuits by activating the remote levers to the "Raise" position and then to the "Lower" position. Lower remote equipment and move the levers to the neutral position.

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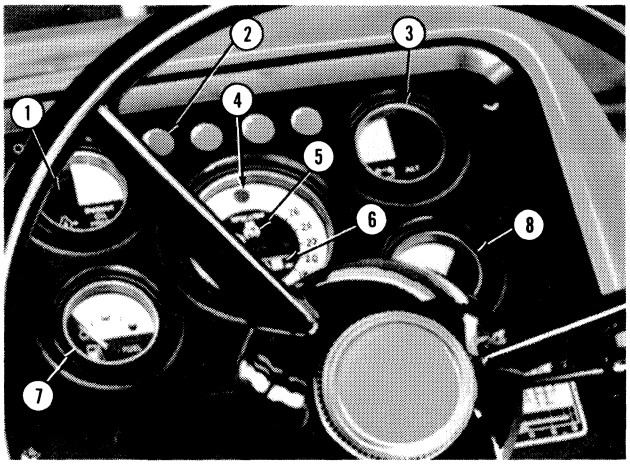


Figure 1
Instruments

1. Engine Oil Pressure Warning Light
2. Air Cleaner Restriction Indicator Light
3. Alternator Warning Light
4. Headlight High Beam Indicator Light
5. Tachometer
6. Hourmeter
7. Fuel Gauge
8. Engine Coolant Temperature Gauge

ENGINE OIL PRESSURE WARNING LIGHT

The engine oil pressure warning light (1) Figure 1, illuminates when:

1. The key-starter switch is in the "run" position and the engine is not running, or

2. When the key-starter switch is in the "run" position, the engine is running but the engine oil pressure is not adequate to lubricate the engine properly.

Stop the engine immediately if the light does not extinguish when the engine starts or if the light illuminates while the engine is running. Investigate the cause.

NOTE: *The operator must still check the dipstick to determine the crankcase oil level.*

AIR CLEANER RESTRICTION INDICATOR LIGHT

The air cleaner restriction indicator light (2), Figure 1, illuminates after the key-starter switch is in the run position and engine is not running or when the air cleaner requires service. Service the air cleaner if the light illuminates while the engine is running.

ALTERNATOR WARNING LIGHT

The alternator warning light (3), Figure 1, illuminates when the alternator is not supplying enough current to meet the tractor electrical requirements. The light should illuminate when the key is turned to the "run" position and extinguish while the engine is running. If the light illuminates while the engine is running, stop the engine and investigate the cause.

HEADLIGHT HIGH BEAM INDICATOR LIGHT

The headlight high beam indicator light (4), Figure 1, illuminates when the headlight high beams are on.

TACHOMETER

The tachometer (5), Figure 1, indicates engine speed in revolutions per minute (rpm). Use the tachometer to determine ground and power take-off speeds.

HOURMETER

The hour meter (6), Figure 1, records engine hours at 1540 engine rpm. Engine speeds faster than 1540 rpm record hours faster than clock hours while engine speeds slower than 1540 rpm record hours slower than clock hours.

Use the hourmeter as a guide to determine service intervals.

FUEL GAUGE

The fuel gauge needle (7), Figure 1, indicates the fuel level in the tank(s).

Refer to FUEL TANK SENDER SWITCH for additional information about tractors with auxiliary (saddle) fuel tanks.

ENGINE TEMPERATURE GAUGE

The engine temperature gauge (8), Figure 1, indicates the temperature of the engine coolant. The coolant is at normal operating temperature when the needle is in the white zone and above normal operating temperature when the needle is in the red zone.

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— TROUBLESHOOTING

This section will assist you in correcting tractor operating problems. Locate the symptom, then take the corrective action in sequence until the problem is solved. Consult your Ford Tractor-Equipment Dealer for assistance if: the problem cannot be solved with the action shown; the engine knocks; the PTO slips; or the problem is not listed.

SYMPTOM	CORRECTIVE ACTION
STARTER WILL NOT RUN OR RUNS SLOWLY	
• Safety starter switch is in off position.	Fully depress clutch pedal.
• Starting circuit resistance too high.	Clean and tighten battery and starter terminals.
• Battery output low.	Check electrolyte levels. Charge battery. Use jumper cables.
ENGINE WILL NOT START	
• Out of fuel.	Refuel and bleed system.
• Ambient temperature too low.	Use cold weather starting procedure.
• Fuel shutoff valve closed.	Open the valve.
ENGINE RUNS ROUGHLY, STALLS, LACKS POWER, SMOKES EXCESSIVELY, OR CONSUMES EXCESSIVE FUEL	
• Water in the fuel filter.	Drain and bleed the filter.
• Fuel filter is plugged.	Replace the filter.
• Air cleaner is restricted.	Clean the air cleaner outer element. If still restricted, replace the inner element.
• Fuel injectors worn or dirty.	Have the dealer check the injectors.
• Using wrong fuel for conditions.	Use correct fuel.
• Contaminated fuel.	Unscrew fuel shutoff valve from the fuel tank and drain and flush the tank.
• Fuel tank cap vent plugged.	Replace the fuel cap.
• Engine overloaded.	Reduce the load. Check linkage, hitch, hydraulic system, and equipment adjustment.
ENGINE OIL PRESSURE LOW	
• Engine oil level low	Add oil.
• Engine oil of the wrong viscosity	Replace the oil with oil of the correct grade and viscosity
ENGINE OVERHEATS	
• Radiator fins plugged	Clean the radiator
• Fan belt loose	Tighten the fan belt
• Radiator cap loose	Tighten the cap
• Radiator cap defective	Replace the cap
• Front and side grills plugged	Clean the grills
ENGINE OIL CONSUMPTION HIGH	
• Engine oil of the wrong viscosity	Replace the oil with oil of the correct grade and viscosity
• Oil leaks	Check for leaks
• Air cleaner restricted	Clean or replace the outer element If still restricted, replace the inner element

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GENERAL DIMENSIONS*		FORD 6700 and 7700
Height to top of Ford cab	in.	113.4

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LUBRICATION AND MAINTENANCE CHART

INTERVAL	ITEM	CHECK	CLEAN	LUBE	CHANGE	ADJUST	PAGE NO.	COMMENTS
As Required	Air Cleaner Outer Element		X				66	When Indicator Light Glows
	Pre-Cleaner Bowl		X				67	When Dirt Reaches Full Mark
(10) Hours/Daily	Engine Oil Level	X					67	
	Power Steering Oil Level	X					68	
	Radiator Coolant Level	X					68	
50 Hours	Fuel Injection Pump Oil Level	X					68	7700
	Fuel Filter		X				68	Drain
	Battery	X					69	
	Lubrication Fittings						69	
	• Front Wheel Spindles			X			69	
	• Brake Pedal Pivots			X			69	
	• Clutch Pedal Pivot			X			70	
	• Hydraulic Lift Linkage			X			70	
	Rear Axle/Transmission/Hydraulic Oil Level	X					70	
	Tires	X					71	
	Clutch Pedal Free Travel	X				X	71	
100 Hours	Engine Oil and Filter				X		72	7700
300 Hours	Engine Oil and Filter				X		72	6700
	Air Cleaner Outer Element		X				72	Wash
	Belts	X				X	72	
	Fuel Injection Pump oil				X		74	7700
	Hydraulic System Oil Filter				X		74	
	Engine Valve Clearance					X	74	7700 Dealer Service
600 Hours	Engine Valve Clearance					X	74	6700 Dealer Service
	Air Cleaner Outer Element				X		74	
	Fuel Injectors	X				X	74	Dealer Service
	Power Steering Oil and Filter				X		75	Dealer Service
	Front Wheel Bearings			X		X	75	
900 Hours	Fuel Filter				X		76	7700
1200 Hours	Fuel Filter				X		76	6700
Annually	Radiator Coolant				X		76	
	RA/Trans./Hyd. Oil				X		77	

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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.**

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. If your tractor is not equipped with a roll bar and seat belt, see your Ford Tractor-Equipment Dealer.

3. Use the handholds and step plates when getting on and off the tractor to prevent falls.

4. 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.

5. Keep the tractor in good operating condition for your safety.

6. Do not allow an open flame near the fuel tank or battery to prevent fires and explosions.

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

8. Replace safety and warning decals when they become illegible.

OPERATING THE TRACTOR

9. 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.

10. Do not start the engine while standing beside the tractor. Always sit in the tractor seat when starting the engine.

11. Do not bypass the safety starter switch. Consult your Ford Tractor-Equipment Dealer if your safety starter controls malfunction.

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

13. Shut off the engine and apply the parking brake before getting off the tractor.

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

15. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can suffocate you.

16. Pull only from the swinging drawbar or the lower link drawbar in the down position with stays installed. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.

17. 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.

18. Always set the hydraulic selector lever in position control when attaching equipment, when transporting equipment, or when no equipment is attached.

19. Do not leave equipment in the raised position.

20. Use the Flasher/Turn Signal lights when traveling on public roads both day and night unless prohibited by law.

DRIVING THE TRACTOR

21. Watch where you are going—especially at row ends, on roads, and around trees.

22. Drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes, and when turning to avoid upsets.

23. Keep the tractor in the same gear when going downhill as used when going uphill.

24. When the tractor is stuck, back out to prevent upset.

OPERATING THE P.T.O.

25. When operating P.T.O. driven equipment, shut off the engine and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.

26. Do not wear loose clothing when operating the power take-off, or when near rotating equipment.

27. When operating stationary P.T.O. driven equipment, always apply the tractor parking brake and block the rear wheels front and back.

28. Do not install or remove the belt while the belt pulley is in motion.

29. To avoid injury, do not clean, adjust, unclog or service P.T.O. driven equipment when the tractor engine is running.

30. Make sure the P.T.O. shield is installed when using P.T.O. driven equipment, and always replace the P.T.O. shaft cap when the P.T.O. is not in use.

Whenever you see this symbol  it means:

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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INTERNATIONAL SYMBOLS

As a guide to the operation of your tractor, various international symbols have been utilized on the instruments and controls. The symbols are shown below with an indication of their meaning.


Engine speed (rev/min x 100)


Hours recorded


Engine water temperature


Fuel level


Fuel cut-off


Lights


Horn


Engine oil pressure


Air filter


Alternator charge


Heater temperature control


Air conditioner temperature control


Fan


Wipe/wash control


Power take-off (on)


Power take-off (off)


'Tortoise', slow or minimum setting


'Hare', fast or maximum setting


Caution

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