The light switch must be in the "ON" positions before the flasher will operate.

For your protection, use the flasher warning lamp when traveling on public roads, day or night.

LIGHT SWITCH

The light switch, shown in Figure 4, is a push-pull type switch. Its positions are:

Full in ..... Off
Intermediate ..... Headlights (High Beam), Instruments, and Tail Lamp
Full out ..... Headlights (Low Beam), Instruments, and Tail Lamp

INSTRUMENT PANEL

STARTER SWITCH

The starter switch is shown in Figure 4. Turning the key to the left will activate the cold-start aid. Turning the key to the right to the "on" position will activate the warning lights and instruments. Turning the key further right to the "start" position will start the engine. Upon release, the key will spring return to the "on" position.

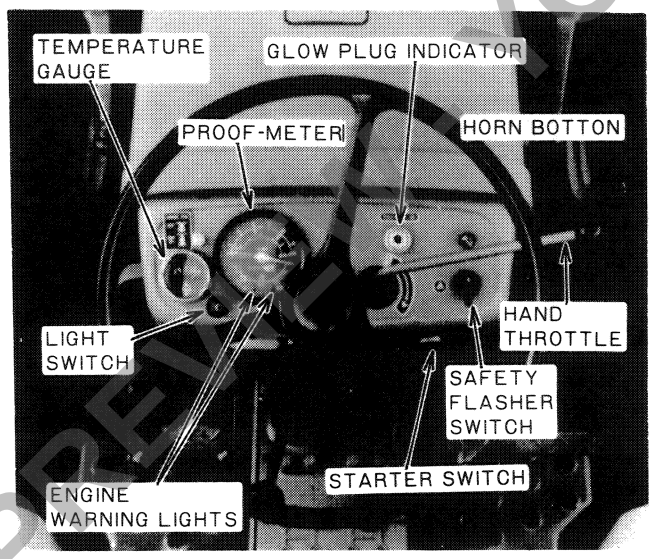


Figure 4 — Instrument Panel

The starting circuit can only be activated when the clutch is disengaged (fully depressed on the standard clutch or depressed to first position from top of pedal on optional dual clutch). For safe operation, always check to make certain the transmission gear shift lever and PTO lever are in neutral before attempting to start the engine. Refer to page 13 for complete starting instructions.

IMPORTANT: The starter switch must remain in the ON position while operating the engine. The warning lights and battery charging system will not function with the switch in the OFF position.

FUEL GAUGE

The fuel gauge is shown in Figure 5. The amount of fuel in the gauge indicates the amount of fuel in the tank. If the fuel level is at the lowest point in the gauge, the tank is empty.

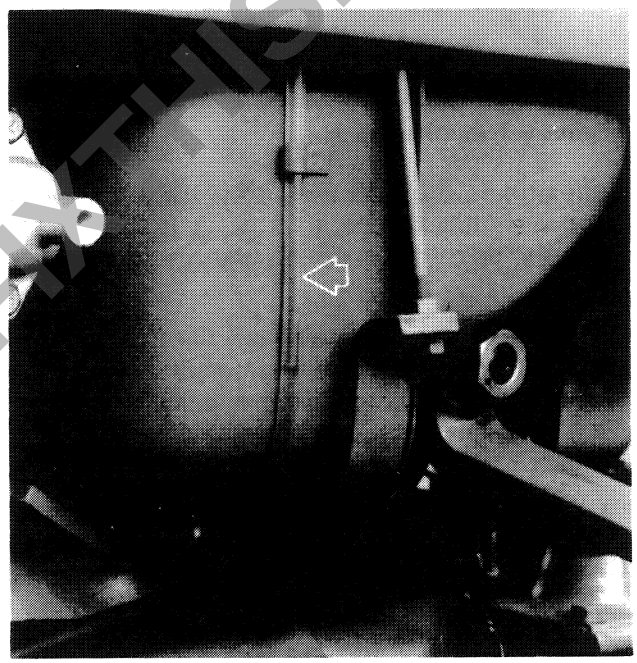


Figure 5 — Fuel Gauge

FUEL SHUTOFF VALVE

The fuel shutoff valve is shown in Figure 6. To open the fuel shutoff valve, move the handle so that is points straight up and down. To close the fuel shutoff valve, move the handle to the horizontal position. Always shut off the valve when servicing any portion of fuel system.

TEMPERATURE GAUGE

The engine coolant temperature gauge is shown in Figure 4. When the needle is in the middle area, the engine is at its normal operating temperature. Movement of the needle into the "H" end of the gauge indicates an overheated engine.

WARNING LIGHTS

The engine oil pressure and charge indicator warning lights are located as shown in Figure 4. When

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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 main 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 down to a near full open position.
3. Turn the starter 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 — Starter Switch

COLD WEATHER STARTING

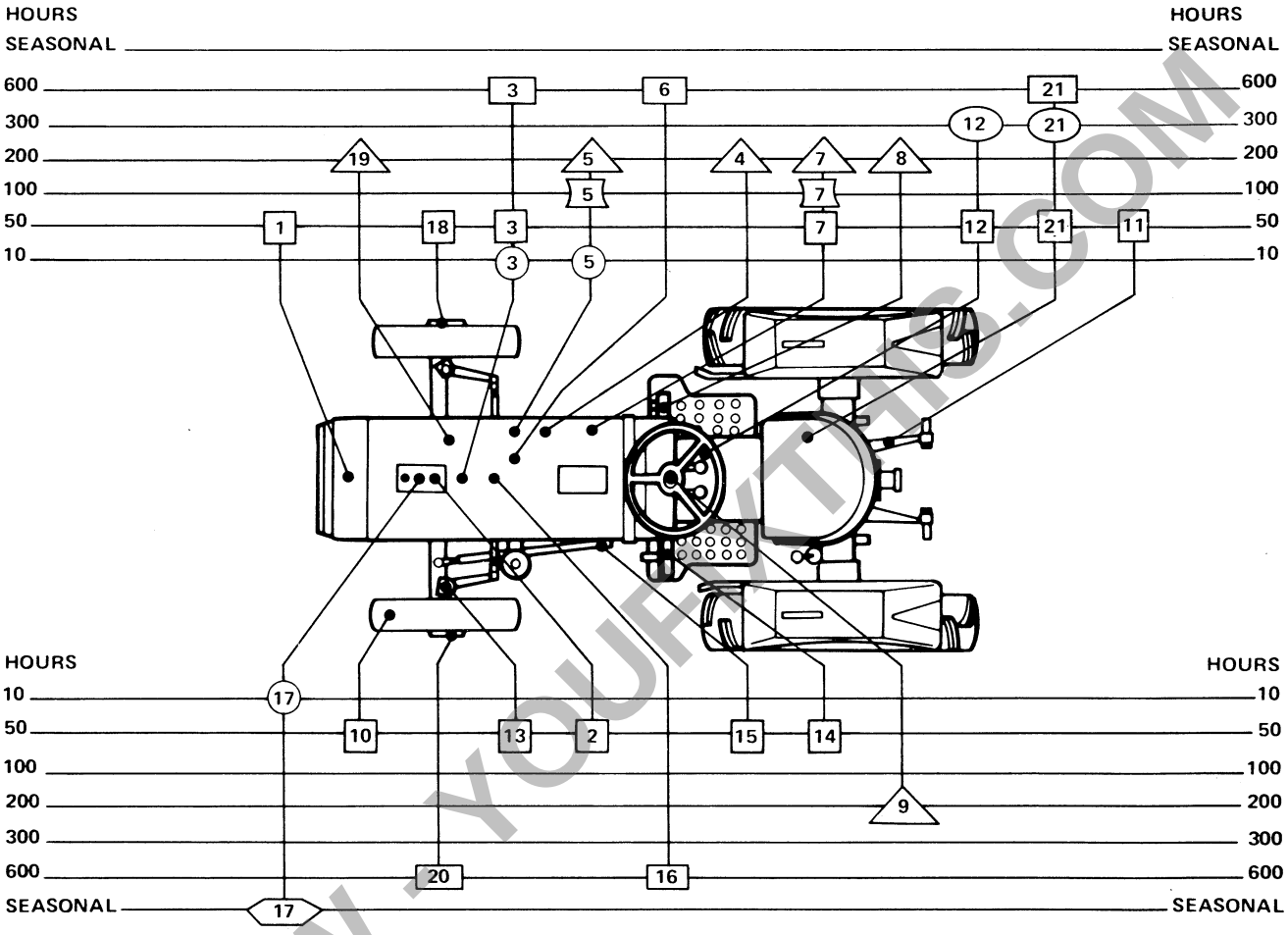
If the engine fails to start using the preceding warm weather starting procedure or when starting the engine in cold weather:

1. Depress the clutch pedal fully and move the shift lever to the neutral position.
2. Move the hand throttle down to a near full open position.
3. Turn the starter switch to "heat" to pre-heat the pre-combustion chamber and wait until the cold-start aid indicator, 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 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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LUBRICATION AND MAINTENANCE CHART — FORD 1900 TWO-WHEEL DRIVE



NO.	LUBRICATION AND MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
5	Engine Oil	X					Every (10) Hours or Daily
17	Radiator Coolant	X					
3	Air Cleaner	X					
21	Hydraulic Filter	X	X				First 50 Hours
3	Air Cleaner		X		X		Every 50 Hours
12	Transmission and Rear Axle Oil Level	X					
7	Fuel Filter	D	R	A	I	N	
1	Battery	X					
10	Tires	X					
14	Clutch Pedal	X					
—	Lubrication Fittings:						
15	Steering Linkage (4)			X			
2	Pivot Shaft (2)			X			
13	King Pins			X			
18	Front Wheel Spindles (2)			X			
11	Hydraulic Lift Linkage (2)			X			
7	Fuel Filter		X				Every 100 Hours
5	Engine Oil				X		

NO.	LUBRICATION AND MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
7	Fuel Filter				X		Every 200 Hours
4	Fuel Injection Pump Oil				X		
19	Fan Belt	X				X	
5	Engine Oil Filter				X		
8	Brakes					X	
9	Steering Free-Play					X	
21	Hydraulic Filter		X				Every (300) Hours
12	Transmission and Rear Axle Oil				X		
21	Hydraulic Filter				X		Every 600 Hours
20	Front Wheel Bearings			X			
6	Fuel Injectors	X					
3	Air Cleaner (Disassemble)		X				
16	Valve Clearance	X					
17	Radiator Coolant				X		Seasonal

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CAPACITIES

Fuel Tank	7.7 U.S. Gals. 6.4 Imp. Gals.

ENGINE — Cont'd.

Compression Ratio	21:1
Firing Order	1-2-3
Low Idle Speed	700-800 rpm

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GENERAL TORQUE SPECIFICATION TABLE (Revised 2-74)

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

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LUBRICANT STORAGE

Your Ford Tractor is equipped with lubricant filters to protect vital points from damage caused by dirt which may enter under normal operating conditions. Precautions must, however, be taken by you to prevent lubricant contamination by dirt or water during storage. Service intervals in this section are based on the assumption that only new oil, of the type specified, is used.

Barrels of lubricant should be kept under cover, preferably in a clean, dry place, and should be clearly marked to indicate the lubricant which they contain.

When a barrel is kept in an exposed location, it should be tilted to allow any moisture to run away from the filler cap. Always use a clean container when transferring oil from a barrel to the tractor and make sure that any cap or bung, which has been removed, is installed as soon as possible.

FUEL AND LUBRICANT SERVICE PROCEDURES

ENGINE

Checking Oil Level: Check the engine oil level daily or every 10 hours.

1. With the tractor standing level, and after the engine has been stopped for a period of time, check the oil level with the dipstick, Figure 35.

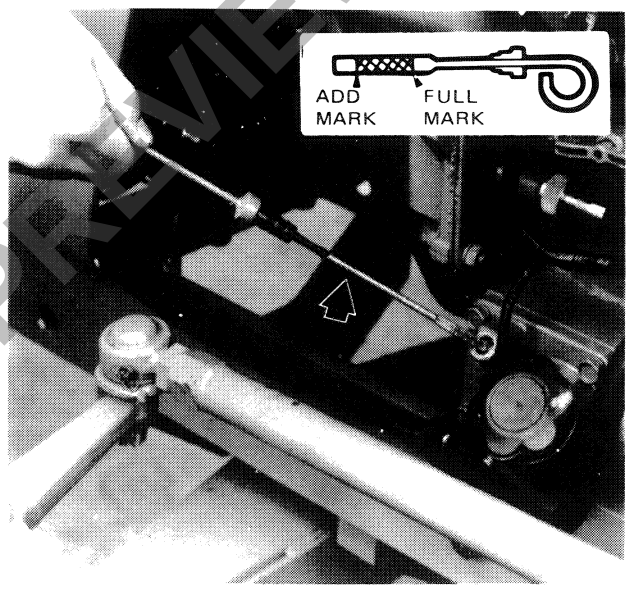


Figure 35 — Engine Oil Level Dipstick and Filler Cap

2. If the oil level is low, remove the filler cap and add oil to the engine through the filler hole to bring the oil level between the marks on the dipstick. Be careful not to overfill.
3. Install the oil filter cap.

Changing Oil and Filter. Change the engine oil every 100 hours and the engine oil filter every 200 hours.

NOTE: More frequent engine oil and filter changes are recommended if the tractor is operated for extended periods of time at maximum rated power and speed. Under such conditions, or other types of continued severe operating conditions, the engine oil should be changed at 70 hour intervals and the filter at 140 hour intervals.

1. With the engine off, but at normal operating temperature, drain the engine oil by removing the drain plug, Figure 36. Reinstall the plug after the oil has drained and discard the oil.

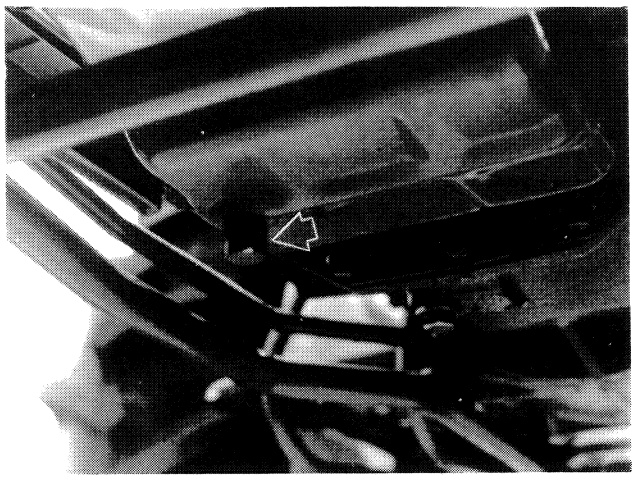


Figure 36 — Engine Oil Drain Plug

2. Unscrew the oil filter, Figure 37, catching the used oil in a suitable container placed below the filter. Discard the filter.
3. Coat the gasket on the new filter with a film of oil. Screw the filter into place until the gasket contacts its mating surface, then turn the filter approximately 3/4 of a turn by hand. Do not over-tighten.
4. Add new oil of the type specified, page 26. Start the engine and check the filter for leaks after adding the oil. Be sure the oil lever is at the proper level.

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CONTENTS

INTERNATIONAL SYMBOLS 4
SAFETY PRECAUTIONS 5
CONTROLS AND INSTRUMENTS 6-11
- SEAT, LIGHT AND ENGINE CONTROLS 6
- LIGHTING 6-7
- INSTRUMENT PANEL 7-8
- THROTTLE CONTROLS 8
- BRAKE CONTROLS 8-9
- DIFFERENTIAL CONTROL 9
- TRANSMISSION AND PTO CONTROLS 9-11
- HYDRAULIC LIFT SYSTEM CONTROLS 11-12

OPERATION 13-22
- BREAK-IN PROCEDURES 13
- STARTING THE ENGINE 13-14
- STOPPING THE ENGINE 14
- OPERATING THE TRANSMISSION, FOUR-WHEEL DRIVE AND PTO 14-16
- TOWING THE TRACTOR 16
- OPERATING THE DIFFERENTIAL LOCK 16-17
- OPERATING THE HYDRAULIC LIFT SYSTEM 17-19
- DRIVING THE TRACTOR 19
- WHEEL TREAD SETTINGS 20-21
- TRACTOR WEIGHTING 21-22
- TIRE PRESSURES 22

LUBRICATION AND MAINTENANCE 23-43
- LUBRICATION AND MAINTENANCE CHART 23-24
  - TWO-WHEEL DRIVE 23
  - FOUR-WHEEL DRIVE 24
- FUEL AND LUBRICANTS 25-27
- FUEL AND LUBRICANT SERVICE PROCEDURES 27-30
- GENERAL MAINTENANCE 31-41
- TRACTOR STORAGE 41-42
- GENERAL TORQUE SPECIFICATION TABLE 43

SPECIFICATIONS 44-47
SAFETY AND INSTRUCTION DECALS 48-50
PREDELIVERY AND 50-HOUR SERVICE 53, 55

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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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