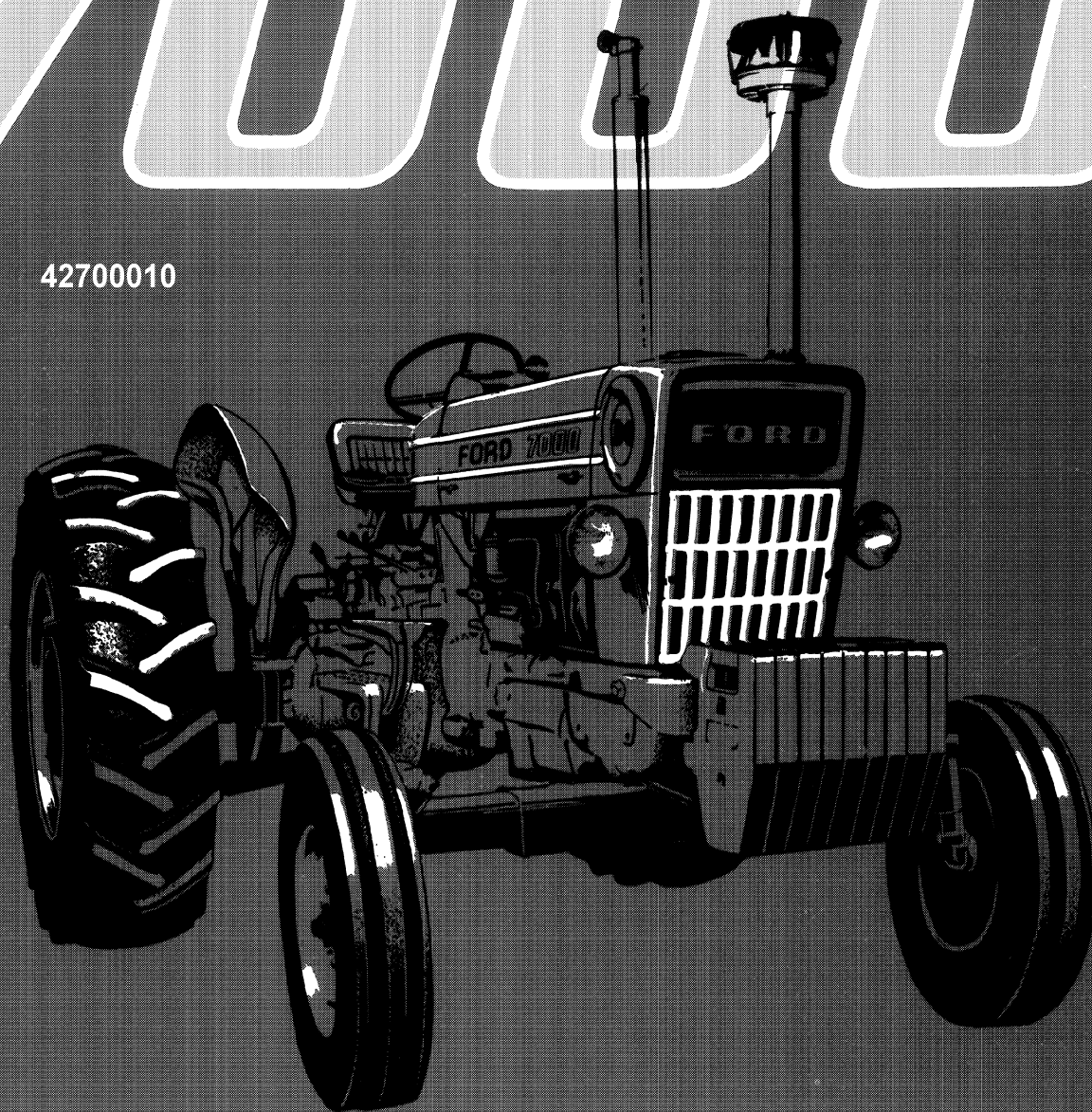


# FORD

# 7000

42700010



## OPERATOR'S MANUAL

Reprinted

# foreword

This manual has been prepared to assist you in the proper break-in, daily care, and operation of your new Ford 7000 Tractor. It contains specific information on the many built-in features of the tractor, the accessories and options that are available, general specifications of the tractor, safety precautions, instructions for making minor adjustments, and your tractor service policy.

Your tractor has been carefully inspected before leaving the factory and also by your Ford Tractor-Equipment Dealer, prior to delivery, to see that it is "ready to go." To keep it in this "ready to go condition", it is important to follow regularly scheduled service periods as recommended in this manual.

Read this manual carefully before operating your tractor, and keep it in a convenient location for later reference. If, at any time, you have a service problem concerning your new tractor, remember that your Ford Tractor-Equipment Dealer has factory-trained service personnel, Genuine Ford Parts, and the necessary tools and equipment to best satisfy your service needs.

FORD TRACTOR OPERATIONS

FORD MOTOR COMPANY

ISSUED TO:

ISSUED BY:

\_\_\_\_\_  
Owner's Name

\_\_\_\_\_  
Ford Tractor-Equipment Dealer

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
State

\_\_\_\_\_  
Delivery Date

# **TRACTOR OPERATOR SAFETY**



## **TO THE OPERATOR:**

**Please read and follow these Safety Precautions to prevent your possible injury when operating your Ford Tractor.**



## **TRACTOR OPERATOR SAFETY**

The following precautions are suggested  
to help prevent personal injury

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. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects. See your Ford Tractor-Equipment Dealer for a FOPS.
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 or implement. There is no safe place for extra riders.
7. Replace all missing, illegible, or damaged safety decals. (Safety decal kit is available from your dealer.)
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. Stop engine, wait for engine to cool down and remove cap slowly before refueling. Do not smoke or have an open flame.
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.



## **TRACTOR OPERATOR SAFETY (Cont'd.)**

The following precautions are suggested  
to help prevent personal injury

### **SERVICING THE TRACTOR (Cont'd.)**

5. Stop the engine before performing any service on the tractor.
6. Do not attempt to service air conditioning system. It is possible to be severely frostbitten or injured by escaping refrigerant. See your dealer for service.
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 part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Never inflate tires to over 35 psi (2.4 bar) to seat beads. Over inflation may break bead or rim with explosive force sufficient to cause serious injury. See Operator's Manual for correct pressure.

### **OPERATING THE TRACTOR**

1. Apply the parking brake or brake lock, 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 safety start switch. Consult your Ford Tractor-Equipment Dealer if your safety 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 engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. Shut off the engine, place P.T.O. in "OFF" position, completely lower all hydraulic lift equipment and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.



## **TRACTOR OPERATOR SAFETY (Cont'd.)**

The following precautions are suggested  
to help prevent personal injury

### **OPERATING THE TRACTOR (Cont'd.)**

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 drawbar. 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 rearward. If pulling from linkage drawbar, be sure stay braces are properly installed.
11. If the front 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, and when transporting equipment. Be sure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
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 low hanging obstacles.
2. To avoid overturns drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches and slopes, and when turning corners.
3. Lock tractor brake pedals 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 downhill.
5. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.



## **TRACTOR OPERATOR SAFETY (Cont'd.)**

The following precautions are suggested  
to help prevent personal injury

### **DRIVING THE TRACTOR (Cont'd.)**

6. When the tractor is stuck or tires frozen to the ground, back out to prevent upset.
7. Always check overhead clearance especially when transporting the tractor.

### **OPERATING THE P.T.O.**

1. When operating the P.T.O. driven equipment, shut off the engine, shift P.T.O. control to neutral and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off, or when near rotating equipment.
3. When operating stationary P.T.O. driven equipment, always apply the tractor parking brake or brake lock and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog or service P.T.O. driven equipment when the tractor engine is running.
5. Make sure the P.T.O. master shield is installed at all times and always replace the P.T.O. shaft cap when the P.T.O. is not in use.
6. When operating rotary cutters, flail mowers or other equipment with rotating members, keep all shields in place and do not allow persons to be near the equipment.

### **LOADER/BACKHOE OPERATION**

1. Always be sure of water, gas, sewage and electrical line locations before you start to dig.
2. Watch out for overhead and underground high-voltage electrical lines when operating the loader or backhoe.
3. Operate the loader or backhoe controls only when properly seated at the controls.
4. Never attempt to lift loads in excess of loader or backhoe capacity.
5. Always lower the loader and backhoe buckets to the ground, shut off the engine and apply the parking brake or brake lock before getting off the unit.



## **TRACTOR OPERATOR SAFETY (Cont'd.)**

The following precautions are suggested  
to help prevent personal injury

### **LOADER/BACKHOE OPERATION (Cont'd.)**

6. Always be watchful of bystanders when operating the loader, when lowering the stabilizers, or when operating the backhoe.
7. Use care when operating on steep grades to maintain proper stability. Always carry the bucket as low as possible.
8. Never attach chains, ropes, cables, etc., to the loader or backhoe for pulling purposes.

### **LOADER OPERATION**

1. Do not transport anyone in the loader bucket.
2. Always carry the loader bucket low for maximum stability and visibility, whether the bucket is loaded or empty.
3. Always use the recommended amount of counterweighting to ensure good stability.
4. Be careful when handling large objects such as round bales, logs, poles, etc. Lifting too high or rolling bucket too far back could result in these objects rolling or sliding rearward down the loader arms on the operator.
5. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised unless the lift arms are properly supported.
6. Exercise caution when operating the loader with a raised loaded bucket or fork.

### **BACKHOE OPERATION**

1. Never allow anyone to get under the backhoe bucket when the bucket is raised.
2. To prevent upsets, avoid full reach and swinging the backhoe bucket to the downhill side when operating on a slope.
3. Watch out for overhead and underground high-voltage electrical lines when operating the backhoe.
4. Do not enter the platform from the rear.
5. Always attach the backhoe transport chains or other locking devices before transporting.
6. Always place all transmission controls in neutral before operating backhoe.





## TRACTOR OPERATOR SAFETY (Cont'd.)

The following precautions are suggested  
to help prevent personal injury

### MAINTENANCE

1. Whenever servicing or replacing pins in cylinder ends, buckets, etc., always use a brass drift and a hammer. Failure to do so could result in injury from flying metal fragments.
2. Always keep the brakes and power steering system in good operating condition.
3. Always wear safety goggles when servicing or repairing the machine.
4. Hydraulic oil escaping under pressure may be nearly invisible and have enough pressure to penetrate skin. Always use cardboard, etc. to locate leaks; never use your hand.

### DIESEL FUEL

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. **Do not use these blends.**

### GASOLINE AND GASOHOL FUEL

1. Gasohol (10% ethyl and 90% gasoline) is more volatile than gasoline alone. It is more hazardous to use and extremely dangerous to mix yourself. Handle it more carefully than gasoline.
2. Never remove the fuel cap or refuel the tractor with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filter pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with the Ford cap approved for your model tractor. A non-approved cap may not be safe.
9. Do not drive equipment near open fires.
10. Never use fuel for cleaning purposes.
11. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

When you see this symbol



it means: ATTENTION! BECOME ALERT!  
YOUR SAFETY IS INVOLVED!



Ford New Holland, Inc.  
New Holland, PA 17557

# FORD 7000 TRACTOR OPERATOR'S MANUAL SUPPLEMENT



## DUAL POWER TRANSMISSION AND TWO SPEED (540 AND 1000) P.T.O.

### GENERAL

This supplement is to be used in conjunction with your Ford 7000 Tractor Operator's Manual, SE 3328. It contains information on the optional Dual Power transmission and the two-speed power take-off, which is standard equipment on your new tractor. Read this supplement and your Ford 7000 Operator's Manual thoroughly before operating your new tractor and keep them both in a convenient location for later reference.

### DUAL POWER TRANSMISSION

Basically, the Dual Power transmission is the same as the 8-speed transmission described in your tractor operator's manual except that it has a hydraulically operated planetary gear set within the transmission housing for increasing pull-power on-the-go in all gear ratios. The Dual Power control lever, Figure 1, is used to select a normal drive (direct drive) or a power drive condition for each gear ratio giving the transmission 16 forward

speeds, and 4 reverse speeds. Moving the Dual Power control lever rearward "downshifts" the transmission to a power drive condition in each of the eight forward and two gear ratios.

Moving the dual power control lever forward returns the transmission to a normal or direct drive condition. The lever can be moved at any engine speed and in any gear to increase or decrease pulling power to meet changes in load or soil conditions.

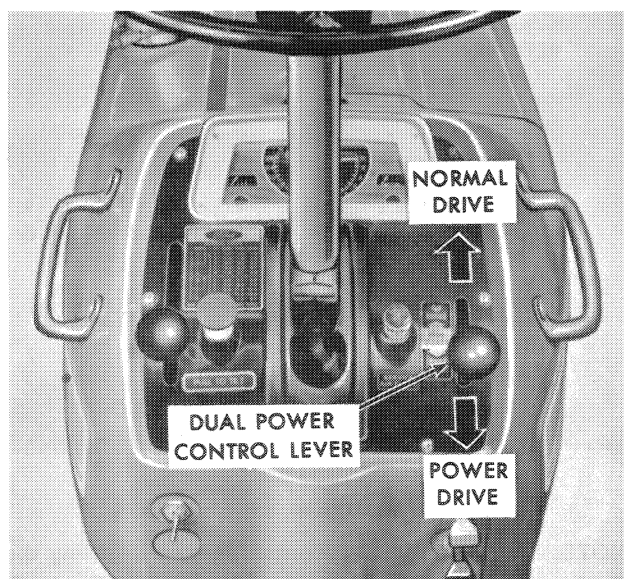


**CAUTION:** Always engage the parking brake before getting off the tractor. With the Dual Power transmission the tractor is free to roll when the engine is not running, even though the transmission may be "in gear".

The tractor can be operated continuously with the lever in either position except during stationary P.T.O. operation. When operating stationary equipment, the lever must be in the power drive position.



**CAUTION:** Do not operate stationary P.T.O. equipment with the Dual Power control lever in normal drive (lever forward) position. Doing so will cause damage to the transmission due to overheating.



**Figure 1**  
Dual Power Control Lever

### TOWING DUAL POWER TRACTORS

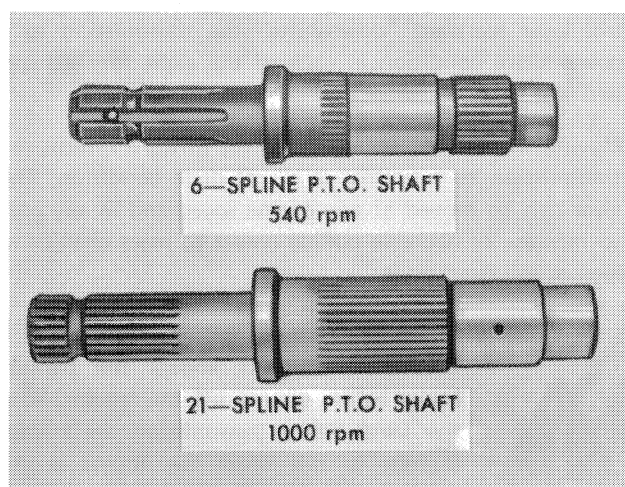
To tow or push your Dual Power transmission tractor, place the high-low shift lever in neutral and the Dual Power control lever in the normal drive (lever forward) position. Do not exceed 20 mph (32 kph) and do not tow or push your tractor to start it.

If the tractor is to be moved any great distance, arrange for transport on a flat bed truck.

## —OPERATION—

### TWO-SPEED POWER TAKE-OFF

If your tractor is equipped with both 540 and 1000 rpm power take-off, two P.T.O. shafts, Figure 2, are included as standard equipment. Both shafts conform to the standards of the American Society of Agricultural Engineers (A.S.A.E.). The 6-spline shaft is for equipment designed for a standard P.T.O. operating speed of  $540 \pm 10$  rpm. The 21-spline shaft is for equipment designed for a standard P.T.O. operating speed of  $1000 \pm 25$  rpm.



**Figure 2**  
P.T.O. Shafts

The operating speeds are obtained when engine rpm, as read on the Proof-Meter, is set at the rpm listed in the following table.

#### ENGINE SPEED vs. P.T.O. SPEED

Engine Speed (rpm)	P.T.O. Speed (rpm)
1900	540
2060	1000

A ground speed chart, along with a diagram of the transmission shift pattern, is located directly below the Proof-Meter. To engage the P.T.O., move the P.T.O. operating lever forward. To disengage the P.T.O., move the lever rearward.

**IMPORTANT:** Never use the 6-spline P.T.O. shaft if the power requirements of the equipment exceed 65 horsepower, as damage to the shaft and tractor P.T.O. components may result. If your equipment calls for more than 65 horsepower, use the 21-spline shaft.



**CAUTION:** Never operate your tractor with the P.T.O. shaft removed. The shaft supports internal gears and acts as a bearing. Operation without the shaft may cause severe damage.

### CHANGING P.T.O. SHAFTS

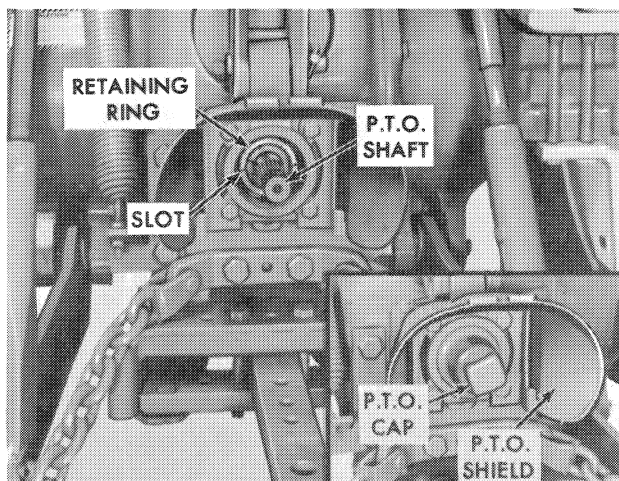


**CAUTION:** To reduce the possibility of personal injury, comply with the following before changing P.T.O. shafts.

- Disengage the P.T.O. by moving the P.T.O. control lever rearward.
- Move the transmission high-low and main gearshift levers to neutral.
- Engage the parking brakes.
- Shut off the tractor engine.
- Wait until the P.T.O. shaft stops turning.

To change from one shaft to the other:

1. Remove the P.T.O. shaft cap, insert, Figure 3.
2. Remove the retaining ring.
3. Pull the P.T.O. shaft from the tractor.
4. Clean the replacement shaft, making sure the lubrication hole in the shaft is not plugged.
5. Install the shaft and replace the retaining ring.



**Figure 3**  
P.T.O. Shaft, Cap, and Shield

**NOTE:** If difficulty is encountered when installing the 6-spline shaft, place a screwdriver in the slot, Figure 3, and turn the sleeve until the splines on the shaft will engage internally with the sleeve.

**SPECIFICATIONS****POWER TAKE-OFF**

Type .....	Independent
Engine Speed for 540 rpm P.T.O. Operation .....	1900 rpm
Engine Speed for 1000 rpm P.T.O. Operation .....	2060 rpm
P.T.O. Shaft for 540 rpm P.T.O. Operation .....	6-Spline
P.T.O. Shaft for 1000 rpm P.T.O. Operation .....	21-Spline

**HYDRAULIC SYSTEM (REAR AXLE AND TRANSMISSION)**

Lubricant .....	M2C53-A
Capacity:	
with 2-Speed P.T.O. and 8-Speed Transmission .....	59 U.S. Qts. (49.2 Imp. Qts.) (55.8 Liters)
with 2-Speed P.T.O. and Dual Power Transmission .....	62 U.S. Qts. (51.7 Imp. Qts.) (58.7 Liters)

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