

# FORD

2000  
3000  
4000  
5000

**ALL PURPOSE  
and LCG**

4220042

## 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 Tractor. It also 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.

Although every tractor is carefully inspected before leaving the factory and also by your Ford Tractor-Equipment Dealer, prior to delivery, it is important to follow regularly scheduled service periods as recommended in this manual.

The information in this manual applies to the Ford 2000, 3000, 4000, and 5000 All Purpose Tractors, and to the Ford 2110 and 4110 LCG Tractors. Where differences exist, specific information is presented for each model.

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 — ZIP CODE

---

STATE — ZIP CODE

---

DELIVERY DATE

**PLEASE READ CAREFULLY:**


The TRACTOR SERVICE POLICY on page ii is your assurance that your Ford Tractor-Equipment Dealer has properly inspected and prepared your new tractor for delivery. Because the policy must be used whenever you request authorized service, we recommend that you keep this manual in a safe, convenient place.

The WARRANTY on page iii explains the coverage which is extended to your tractor during the warranty period. After you read the warranty ask your dealer to explain any points which you do not understand.

For a complete list of the pre-delivery service checks performed by your dealer, refer to the PRE-DELIVERY Service Report on the upper portion of pages 85 and 87. The copy on page 85 is your record of the service performed, and the copy on page 87, which is to be removed from the manual, is your dealer's record. MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.

After you have operated your tractor for fifty hours, take this manual and your tractor to your dealer. He will then perform the factory recommended 50-HOUR SERVICE as listed on the lower portion of pages 85 and 87 — without charge — except for lubricants, hydraulic oil, or filters replaced as part of normal maintenance. MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.

A VEHICLE IDENTIFICATION PLATE is located on the inside of the right-hand hood panel. The numbers on the plate are important should your tractor require future service. For your convenience, have your dealer record the numbers in the appropriate space below.



<b>TRACTOR NUMBER</b> [ ]	
<b>MODEL</b> [ ]	<b>UNIT</b> [ ]
<b>ENGINE</b> [ ]	
<b>TRANSMISSION</b> [ ]	<b>REAR AXLE</b> [ ]
<b>HYDRAULIC PUMP</b> [ ]	<b>HYDRAULIC LIFT</b> [ ]

**AUTHORIZED  
TRACTOR-EQUIPMENT  
DEALER'S**



**Service Policy**

**PROPER CARE OF YOUR TRACTOR**

Your new Ford has been properly inspected and prepared for delivery in the manner recommended by Ford Motor Company. Continued efficiency as well as economy in operation, however, depends upon the care received. Systematic attention to lubrication, regular inspection, and necessary mechanical adjustments by a Ford Tractor-Equipment Dealer, usually will result in greater satisfaction to you.

**INSTALLATION OF PARTS FURNISHED UNDER WARRANTY**

Should the replacement of any part become necessary under the warranty, the selling dealer will make the replacement without any charge for the part or for the labor required to replace the part.

If you move to another location during the duration of the warranty period, the warranty service to which you are entitled under this policy will be performed by the nearest authorized Ford Tractor-Equipment Dealer without charge for material or labor when the tractor is brought into his shop. In order to obtain this service, you must present this policy to the servicing dealer before the warranty period expires.

**AFTER THE WARRANTY PERIOD HAS ELAPSED**

The selling dealer will at any time inspect your tractor using factory-recommended equipment, and the experience of trained mechanics and service analysts. We will advise you concerning the most economical and efficient maintenance procedures. Any repair or maintenance operations authorized by you will be charged for at our regular prices for such work.



# Warranty

FORD MOTOR COMPANY warrants to the owner each part of this Ford Tractor and/or Ford Implement or Ford Equipment to be free, under normal use and service, from defects in material and workmanship for a period of six months from the date of sale to the original retail purchaser. This warranty shall be fulfilled by the Dealer (or, if the owner of the tractor is traveling or has become a resident of a different locality, by any authorized Ford Tractor-Equipment Dealer) by replacing or repairing at his place of business, free of charge including related labor, any such defective part.

This warranty shall not apply to (1.) vendor-warranted items such as tires and tubes, (2.) to normal maintenance services (such as engine tune-up, fuel system cleaning and wheel, brake and clutch adjustments), or (3.) to normal replacement of service items (such as filters, spark plugs, ignition points, brake or clutch linings), or (4.) to deterioration of belts and exterior finish due to normal use or exposure, or (5.) to parts of any tractor or equipment that has been subject to negligence, alteration or accident, or which has been used with parts or equipment not made or supplied by FORD MOTOR COMPANY if, in the reasonable judgement of the Company and/or its authorized Dealers, such use affects its performance or reliability, or (6.) to parts of any tractor that have been altered or repaired outside of the Dealer's place of business in a manner so as in the reasonable judgement of the Company to affect its performance or reliability.

This warranty is expressly IN LIEU OF any other express or implied warranty, including any implied WARRANTY OF MERCHANTABILITY or FITNESS and of any other obligation on the part of the Company and/or its authorized Dealers.

FORD MOTOR COMPANY reserves the right to make changes in its products at any time and without prior notice. When such changes are made, neither FORD MOTOR COMPANY or its Dealers assume any obligation to make these changes in products previously manufactured.

This warranty covers Ford Tractors and Equipment sold for use within the continental boundaries of the United States only.

*whatever your service needs . . .  
whatever your parts or accessories  
requirements . . . your Ford Tractor-  
Equipment Dealer is equipped  
to serve you better . . . for less!*

When you see this "sign of service" it means that your Ford Tractor-Equipment Dealer is prepared to give you top quality service for your tractor and implements. Whether it's in the shop or emergency service in the field, he's using factory approved methods to keep your equipment in top operating condition . . . to keep you "on the go."



*Service Center*

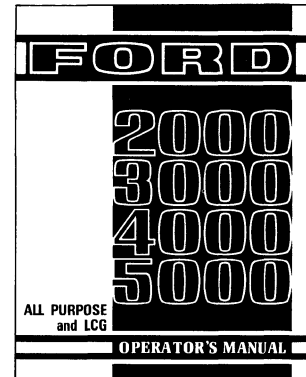
Genuine Ford Tractor and Equipment parts are made better . . . to fit better . . . to last longer. Because they are designed specifically for Ford Equipment these parts will give you top value in long, dependable service. Always insist on genuine Ford parts for dependability.



*Authorized Service*

**GENUINE PARTS**

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# safety precautions

The following precautions are suggested to help prevent accidents.



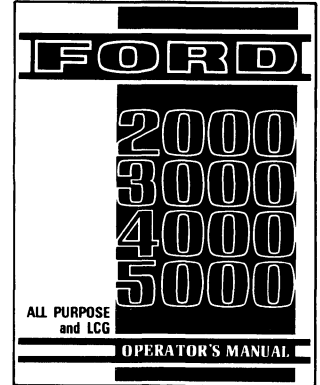
1. Do not permit anyone to ride on the tractor with the operator.
2. Always shut off the engine before getting off the tractor.
3. The operator should never get off the tractor when the tractor is in motion.
4. Use care when operating on steep grades to maintain proper stability.
5. Always drive the tractor at speeds compatible with safety, especially when operating over rough ground, near ditches, or turning.
6. Keep the tractor in gear when going downhill.
7. When operating P.T.O.-driven equipment, always shut off the engine and wait for the P.T.O. to stop before disconnecting the equipment.
8. Make sure the parking brakes are set when parking the tractor and place the Select-O-Speed selector lever in the park (P) position. Lock the parking brake when the drive line disengagement lever is in the disconnect position.
9. Always keep the tractor brakes in proper operating condition.
10. Never run the tractor engine in a closed building without adequate ventilation, as fumes from the exhaust system are very dangerous.
11. Never install or remove a belt while the belt pulley is in motion.
12. Never wear loose clothing when operating the power take-off, or around equipment being driven by the P.T.O.
13. Always use the standard drawbar for pull-type work. Pulling from the upper link or rear axle is extremely dangerous.
14. If the front end tends to rise, check for proper weight distribution.
15. Always make sure the engine is shut off and the P.T.O. drive disengaged before cleaning or adjusting P.T.O.-driven equipment.
16. Never leave equipment in the raised position.
17. If the tractor is stuck, always attempt to back out. If logs are used, always put them behind the rear wheels and back out.
18. Never try to start the engine while standing beside the tractor. Start the engine only while sitting in the tractor seat.
19. Do not bypass the safety starter switch with "homemade" wiring. Consult your Ford Tractor-Equipment Dealer if your safety starter controls are malfunctioning.
20. Always install the P.T.O. shield when using P.T.O.-driven equipment.





# 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.



**Know your controls and instruments  
to assure Safe Operation.**

# CONTROLS AND INSTRUMENTS

## SEAT, LIGHT, AND ENGINE CONTROLS

### TRACTOR SEAT

Your new Ford Tractor is equipped with either a pan seat, Figure 1, or deluxe contoured seat, Figure 2.

**Pan Seat:** If the seat is not in the most comfortable position, it can be moved closer to, or farther from, the steering wheel by removing the attaching nuts, Figure 1, and repositioning the seat as desired. The seat can also be tilted back, permitting you to stand.

**Deluxe Contoured Seat:** If the seat is not in the most comfortable position, it can be moved closer to, or farther from, the steering wheel by loosening the attaching nuts. The seat can also be tilted back, permitting you to stand. Tilt the seat back when not in use to help protect it from the weather.

Flotation of the seat can be adjusted to accommodate your individual weight. Adjustment is made by turning the crank, Figure 2, until the indicators align when you are in the seat. If softer or stiffer flotation is desired, turn the crank accordingly.

### FLASHING SAFETY LAMP

The flashing safety lamp is located on top of the left rear fender and is shown in Figure 3. The spring-loaded push-type switch on the lamp housing is used to turn the flasher on or off. The light switch, Figure 4, must be in its intermediate or full out position before the flasher will operate.

For your protection, use the flashing safety lamp when traveling on public roads, day or night, unless prohibited by law in your state.

### LIGHT SWITCH

The light switch is located on the right side of the dash panel and is shown in Figure 4. The switch is a push-pull type switch. Its positions are:

- Full in . . . . . Off
- Intermediate . . . . . Instrument lights, tail lamp, flashing safety lamp, and accessory lights
- Full out . . . . . Headlamps, tail lamp, flashing safety lamp, instrument lights, and accessory lights

### KEY-STARTER SWITCH

The key-starter switch is located on the left side of the dash panel and is shown in Figure 4. Turning the key clockwise to the "ON" position will energize the warning light circuit, thereby activating the instruments. Turning the key further clockwise will activate the starting motor. Upon release, the key will automatically return to the "ON" position; it must then be turned counterclockwise to the "OFF" position to deactivate the instruments and stop the engine. On diesel tractors, the diesel engine stop control must also be pulled out to stop the engine.

The starting motor can only be used when the transmission shift lever is in Neutral, Park (P) on Select-O-Speed tractors. Refer to page 14 for complete starting instructions.

### DIESEL ENGINE STOP CONTROL

The diesel engine stop control is located directly above the light switch on the right side of the dash panel, Figure 4. The control is used in conjunction with the key-starter switch to stop and start the engine. The control must be pushed in before the engine will start. The control must be pulled out to stop the engine. The key-starter switch should then be turned to the "OFF" position.

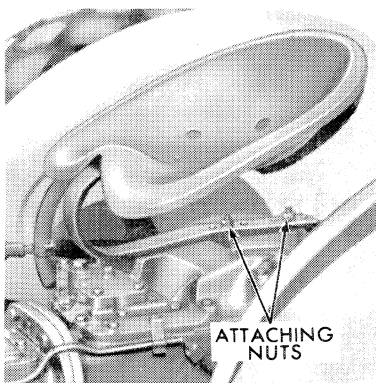


Figure 1  
Pan Seat

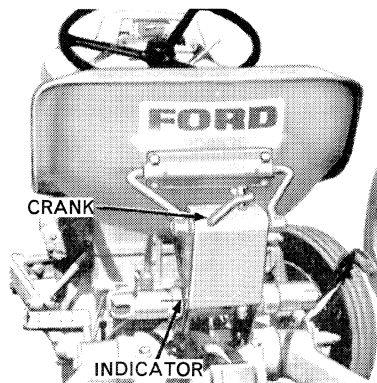


Figure 2  
Deluxe Contoured Seat

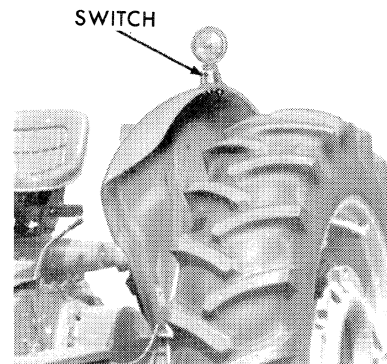
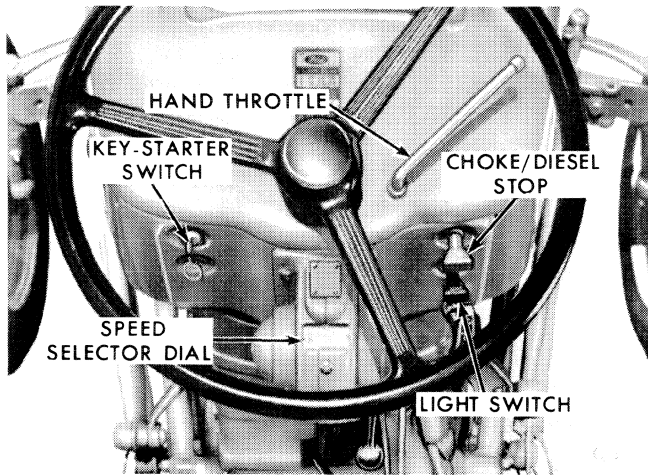


Figure 3  
Flashing Safety Lamp



**Figure 4**  
**Engine Controls**

### **GASOLINE ENGINE CHOKE CONTROL**

The gasoline engine choke control is located directly above the light switch on the right side of the dash panel, Figure 4. The control is used to “choke” the engine for easier starting during cold weather. Maximum choking occurs when the control is pulled all the way out. Refer to “Cold Weather Starting” on page 14 for use of the choke.

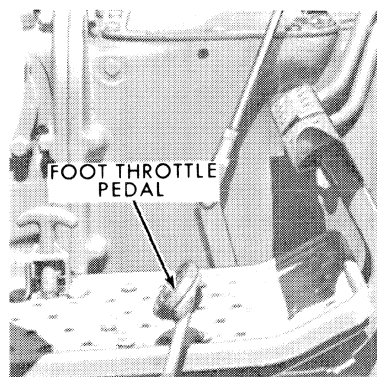
### **HAND THROTTLE**

The hand throttle is located under the right edge of the steering wheel and is shown in Figure 4. Pull the throttle rearward to increase engine rpm. Push the throttle forward to decrease engine rpm.

### **FOOT THROTTLE**

#### **Ford 2110 and 4110**

The foot throttle is located at the right-hand platform and is shown in Figure 5. The throttle can be operated

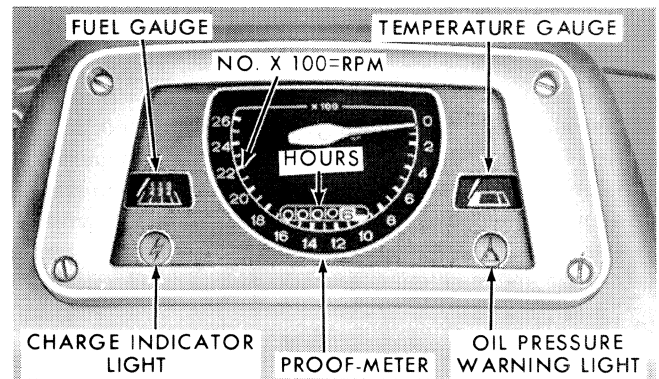


**Figure 5**  
**Foot Throttle — Ford 2110 and 4110**

independently of, or in conjunction with, the hand throttle throughout the full engine speed range. With the hand throttle set at a selected engine rpm, the foot throttle can be used to increase engine rpm up to the maximum engine speed. On release of the foot throttle, the engine speed will return to the rpm determined by the hand throttle.

### **FUEL GAUGE**

The fuel gauge is located in the left side of the instrument cluster, Figure 6. The relationship of the needle to the quarter marks on the gauge indicates the amount of fuel in the tank.



**Figure 6**  
**Instrument Cluster**

### **TEMPERATURE GAUGE**

The engine coolant temperature gauge is located in the right side of the instrument cluster, Figure 6. When the needle is between the blue (cold) and red (hot) marks the engine coolant is at its normal operating temperature.

### **ENGINE OIL PRESSURE WARNING LIGHT**

The engine oil pressure warning light is located directly below the temperature gauge in the right side of the instrument cluster, Figure 6. When the key-starter switch is turned “ON,” the oil pressure warning light should come on, indicating that the light is functioning. When the engine is running, the light should go out as engine speed is increased. If the light does not go out, immediately stop the engine and investigate the cause. It is important to remember that this light indicates only oil pressure. The operator must still check the crankcase for proper oil level.

# CONTROLS AND INSTRUMENTS

## CHARGE INDICATOR LIGHT

The charge indicator light is located directly below the fuel gauge in the left side of the instrument cluster, Figure 6. When the key-starter switch is turned "ON," the charge indicator light should come on, indicating that the light is functioning. When the engine is running, the light should go out as engine speed is increased. If the light remains on when the engine is running above idle speed, it is an indication that the generator is not charging the battery. This should be investigated as soon as possible, otherwise the battery may become fully discharged.

## PROOF-METER

The Proof-Meter is the large instrument in the center of the instrument cluster, Figure 6. The Proof-Meter indicates:

- The hours and portions of hours your tractor has operated, based on an average engine speed of 1666 rpm. Engine speeds below 1666 rpm accumulate hours at a slower rate than clock hours. Engine speeds above 1666 rpm build up hours faster than clock hours. Use the Proof-Meter as a guide to determine hourly service and maintenance intervals.
- The engine revolutions per minute. Use the Proof-Meter in conjunction with the transmission shift decal to determine the tractor ground speed. The Proof-Meter also is helpful when operating P.T.O. equipment. Additional P.T.O. and ground speed information can be found on pages 18 and 23.

## DIESEL ENGINE EXCESS FUEL BUTTON

### In-Line Injection Pump

The excess fuel button is located on the fuel injection pump of Ford 3000 and 5000 Tractors equipped with the In-Line type pump, Figure 7. The button should be pushed in before starting the engine at temperatures below 40° F. Refer to "Cold Weather Starting" on page 14 for use of the button.

### FUEL SHUT-OFF VALVE

The fuel shut-off valve is located on the right side of the tractor under the fuel tank, Figure 8. Turning the valve clockwise will stop the flow of fuel from the tank.

## BRAKE AND REAR AXLE CONTROLS

### BRAKE PEDALS

The brake pedals, shown in Figure 9, are provided on the right side of the tractor. To brake one wheel inde-

pendently of the other, depress the left pedal for left wheel braking, and the right pedal for right wheel braking. Depress both brake pedals simultaneously to brake both rear wheels and stop the tractor.

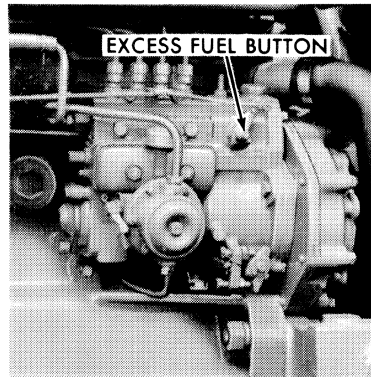


Figure 7  
Excess Fuel Button — In-Line  
Injection Pump

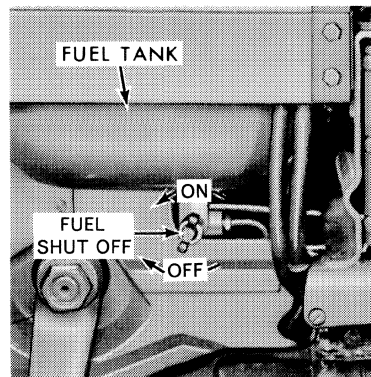


Figure 8  
Fuel Shut-Off Valve

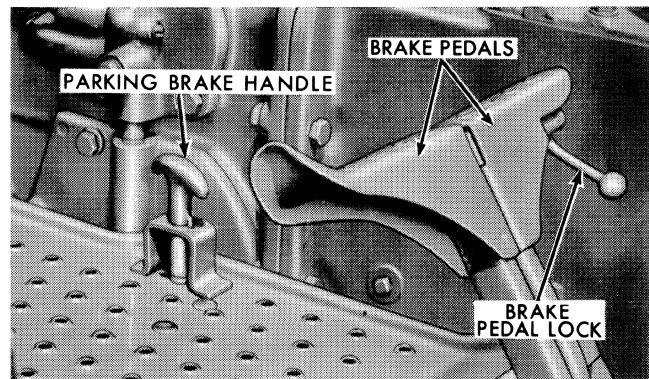


Figure 9  
Brake Controls

To assist in making sharp turns at slow-to-moderate speeds, depress the right or left brake pedal as required.



**CAUTION:** *When operating the tractor at high speeds, never attempt to make sharp turns by using the brakes.*

### **BRAKE PEDAL LOCK**

The brake pedal lock, shown in Figure 9, is used for locking the brake pedals together. It is recommended that the brake pedals be locked together when the tractor is operated at high speeds or at any time the tractor is used on the highway.

### **PARKING BRAKE HANDLE**

The parking brake handle, shown in Figure 9, is used for locking the brake pedals in the applied position. The parking brake should be applied whenever the tractor is parked.

To apply the brake:

- Lock the brake pedals together with the brake pedal lock.
- Pull up on the parking brake handle and turn it ¼ turn.
- Depress both brake pedals. A ratchet mechanism under the platform will hold the pedals in the applied position.

To release the parking brake:

- Turn the handle ¼ turn so the tabs will enter the slot in the handle guide.
- Depress the brake pedals to release the ratchet.
- Unlock the brake pedals.

### **DIFFERENTIAL LOCK PEDAL**

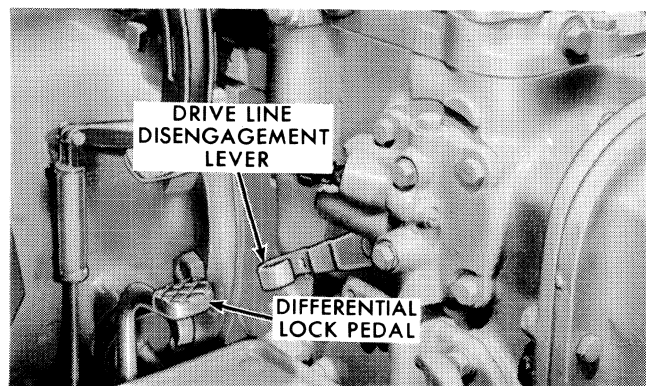
The differential lock pedal, shown in Figures 10 and 11, provides a means of locking the rear axle shafts together, providing for additional traction in wet or loose soil. Refer to page 25 for differential lock operating instructions.

## **SELECT-O-SPEED TRANSMISSION AND P.T.O. CONTROLS**

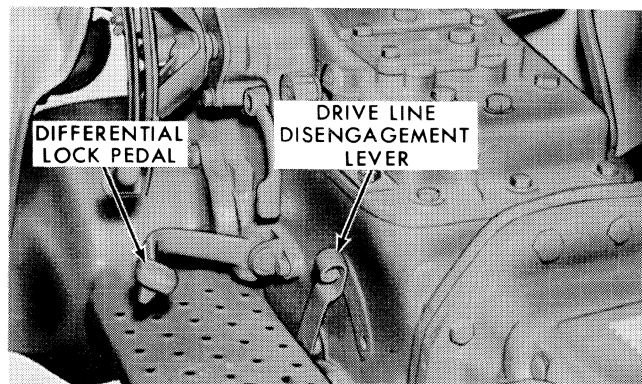
### **SELECT-O-SPEED GEAR SELECTOR LEVER**

The Select-O-Speed gear selector lever, shown in Figure 12, is used for selecting ten forward speeds

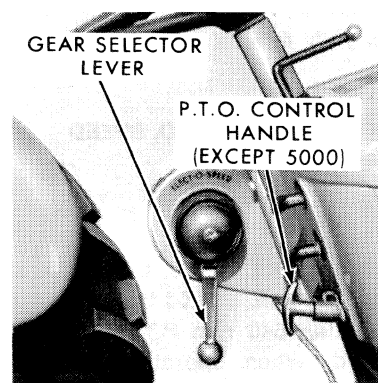
(indicated by numerals 1 to 10), two reverse speeds (R<sub>1</sub> and R<sub>2</sub>), a park (P), and a neutral position (N). The selector dial is illuminated when the key-starter switch is turned on. Refer to "Operating Select-O-Speed Tractors and P.T.O." on page 16 for additional gear selector lever operating information.



**Figure 10**  
Rear Axle Controls — Ford 2000, 2110, 3000, 4000, and 4110 (Ford 4000 Shown)



**Figure 11**  
Rear Axle Controls — Ford 5000



**Figure 12**  
Select-O-Speed Controls

## CONTROLS AND INSTRUMENTS

### SELECT-O-SPEED INCHING PEDAL

The Select-O-Speed inching pedal, shown in Figure 13, provides for quick disengagement of power to the rear wheels, and permits you to ease the tractor into equipment for easy attachment. Always depress the pedal when starting the tractor, then ease it up to get the tractor moving. Refer to "Operating Select-O-Speed Tractors and P.T.O." on page 16 for additional inching pedal operating information.

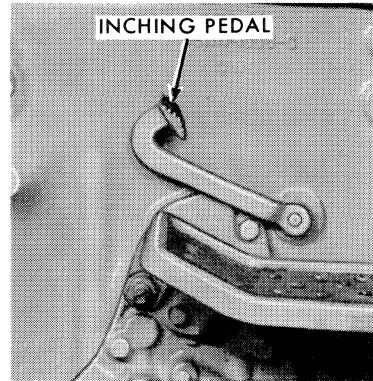


Figure 13  
Select-O-Speed Inching Pedal

### SELECT-O-SPEED INDEPENDENT P.T.O. CONTROL HANDLE/LEVER

**Ford 2110, 3000, 4000, and 4110:** The Select-O-Speed P.T.O. control handle, shown in Figure 12, is used to engage and disengage the P.T.O. on Ford 2110, 3000, 4000, and 4110 Tractors. To engage the P.T.O., pull the handle all the way out. To disengage the P.T.O., push the handle all the way in.

If your tractor is equipped with the Deluxe Select-O-Speed transmission, the ground speed P.T.O. shift lever, Figure 14, must be in the "OFF" position before the P.T.O. control handle can be moved. Refer to "Select-O-Speed Independent P.T.O. Operation" on page 19 for detailed operating instructions.

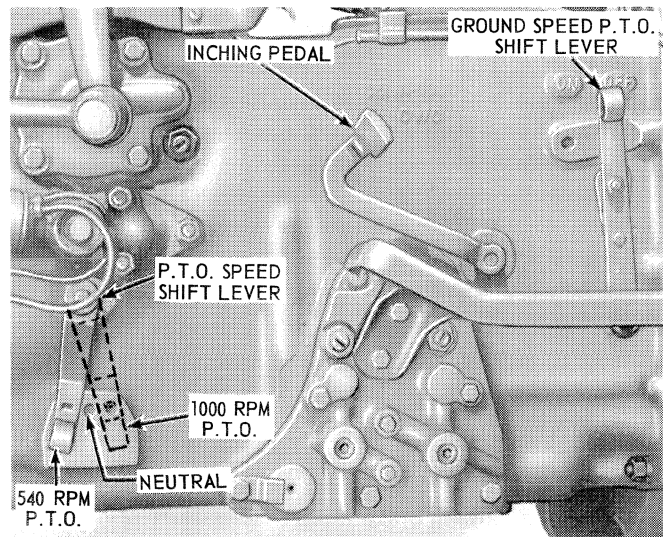


Figure 14  
Deluxe Select-O-Speed Controls

**IMPORTANT:** Make sure the P.T.O. control handle is always fully in or fully out to prevent excessive wear to the P.T.O. clutch.

**Ford 5000:** The Select-O-Speed P.T.O. control lever, shown in Figure 15, is used to engage and disengage the P.T.O. on Ford 5000 Tractors. To engage the P.T.O., move the lever sharply rearward. To disengage the P.T.O., move the lever sharply forward. Refer to "Select-O-Speed Independent P.T.O. Operation" on page 19 for detailed operating instructions.

**IMPORTANT:** Make sure the P.T.O. control lever is always fully rearward or fully forward to prevent excessive wear to the P.T.O. clutch.

### DELUXE SELECT-O-SPEED P.T.O. SPEED SHIFT LEVER

#### Ford 3000, 4000, and 4110

When the P.T.O. is not in use, the P.T.O. speed shift lever, shown in Figure 14, should be in the neutral position. When operating 540 rpm P.T.O. equipment, move the lever forward. When operating 1000 rpm P.T.O. equipment, move the lever rearward. Never move the lever when the tractor engine is running. Also, when operating the Deluxe Select-O-Speed P.T.O., make sure

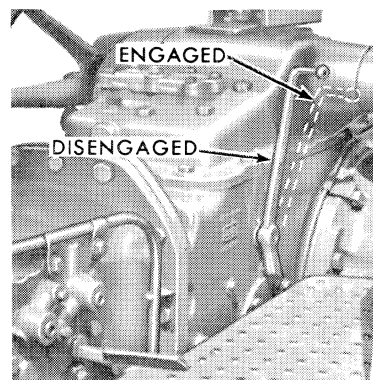


Figure 15  
Independent P.T.O. Control  
Lever — Ford 5000

the correct P.T.O. shaft is used as outlined on page 18, "P.T.O. Shafts."

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