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**Operator's Manual**

**1801 Diesel**

Operator's Manual

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**FO-O-1801 DSL**

# FORD DIESEL INDUSTRIAL TRACTOR



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OPERATOR'S MANUAL

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## STANDARD AND OPTIONAL EQUIPMENT CHART

|                    | MODEL                                                                                     | 1811-D | 1821-D | 1841-D | 1871-D | 1881-D |
|--------------------|-------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|
| STANDARD EQUIPMENT | Four Speed Transmission                                                                   |        | X      | X      |        |        |
|                    | Select-O-Speed Transmission                                                               | X      |        |        | X      | X      |
|                    | Proof-Meter                                                                               | X      | X      | X      | X      | X      |
|                    | Temperature Gauge                                                                         | X      | X      | X      | X      | X      |
|                    | Hydraulic System                                                                          |        |        | X      | X      | X      |
|                    | P.T.O.                                                                                    |        |        |        |        |        |
|                    | Transmission Driven 540 R.P.M.                                                            |        |        | X      |        |        |
|                    | Independent 540 R.P.M.                                                                    |        |        |        | X      | X      |
|                    | Independent 1000 R.P.M.                                                                   |        |        |        |        | X      |
|                    | Ground Speed                                                                              |        |        |        |        | X      |
|                    | Lights                                                                                    | X      | X      | X      | X      | X      |
|                    | Tool Box                                                                                  | X      | X      | X      | X      | X      |
|                    | Tools                                                                                     |        |        | X      | X      | X      |
|                    | Power Steering                                                                            | X      | X      | X      | X      | X      |
|                    | Trailer Light Connection                                                                  | X      | X      | X      | X      | X      |
| OPTIONAL EQUIPMENT | Independent Hydraulic Reservoir for Loader                                                | X      | X      | X      | X      | X      |
|                    | Foot Throttle                                                                             | X      | X      | X      | X      | X      |
|                    | Comfort Seat                                                                              | X      | X      | X      | X      | X      |
|                    | Rear Tires 12:00-28 4 ply Agricultural Tread                                              | X      | X      | X      | X      | X      |
|                    | Reversing Transmission                                                                    |        | X      | X      |        |        |
|                    | Hydraulic Package for Series 712 Industrial Loader (Includes Pump, Mtg. Pads, Hyd. Lines) | X      | X      | X      | X      | X      |
|                    | Transmission Drive P.T.O. 540 rpm                                                         |        | X      | STD.   |        |        |
|                    | Independent Drive P.T.O. 540 rpm                                                          | X      |        |        | STD.   | STD.   |
|                    | 28" Cast Iron Wheels                                                                      | X      | X      | X      | X      | X      |
|                    | Rear Tires 13:00-24 Agricultural Tread                                                    | X      | X      | X      | X      | X      |
|                    | 13:00-28 Agricultural Tread                                                               | X      | X      | X      | X      | X      |
|                    | 14:00-24 Agricultural or Industrial Tread                                                 | X      | X      | X      | X      | X      |
|                    | Manifold Heater Kits                                                                      | X      | X      | X      | X      | X      |

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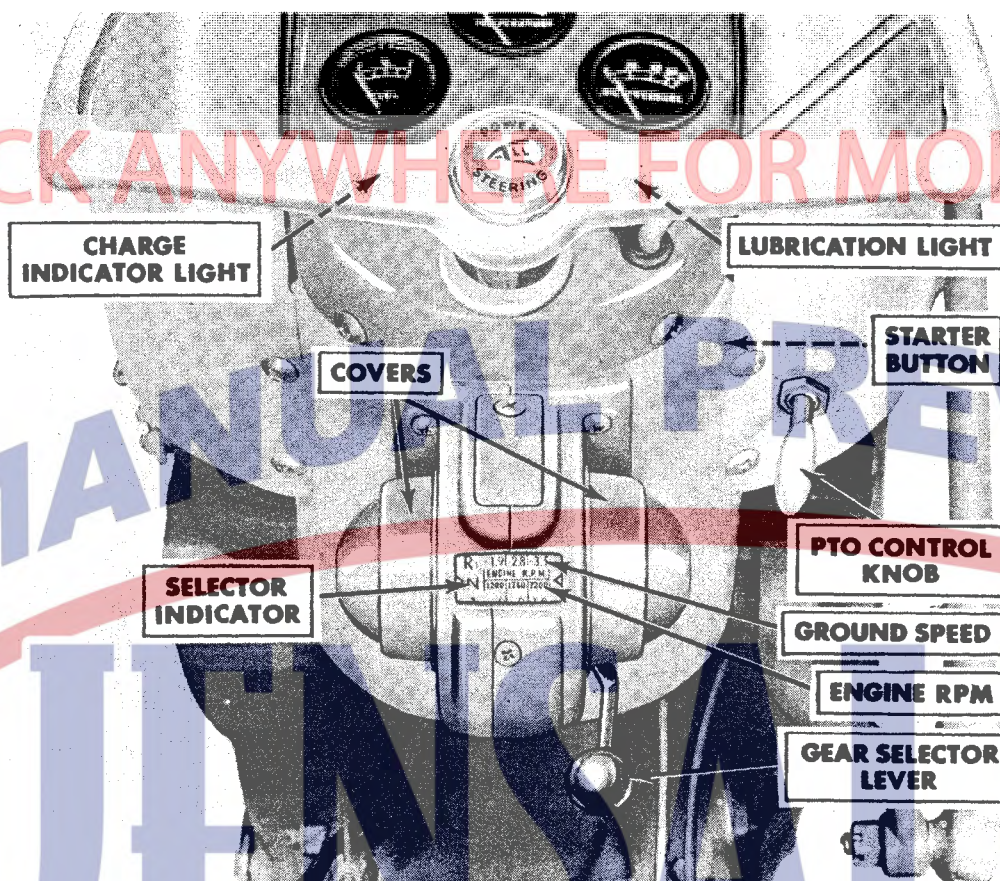


Figure 2  
Controls and Instruments Select-O-Speed Tractors

#### GEAR SHIFT LEVER

The 4-Speed Transmission gear shift lever is located directly in front of the tractor seat.

For your convenience, a diagram of the shift positions is provided on the transmission cover as shown in the insert, Figure 1.

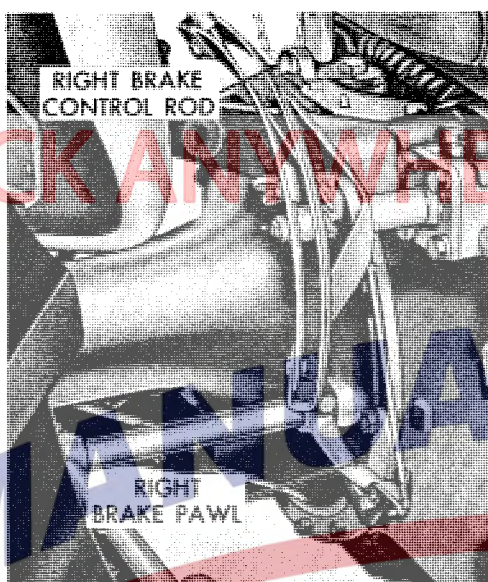
#### SELECT-O-SPEED SHIFT LEVER

The Select-O-Speed Transmission shift lever is located on the speed selector housing which is directly under the steering wheel. As the lever is shifted, a selector indicator, Figure 2, shows the gear selected.

#### STARTER BUTTON

On 4-Speed Transmission equipped tractors, a safety type starter button is located on the top of the transmission housing within easy reach of the operator. As a safety feature, the starter button will not

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**Figure 3**  
*Brake Pawl Engaged*



**Figure 4**  
*Power Take-Off Lever Engaged*

#### **LUBRICATION LIGHT**

The Select-O-Speed Transmission is pressure lubricated. A lubrication light, Figure 2, indicates low oil pressure when lit.

#### **CLUTCH PEDAL**

On 4-Speed Transmission equipped tractors the foot operated clutch pedal, located on the left side of the transmission housing, must be depressed to disengage the clutch.

#### **INCHING PEDAL**

On Select-O-Speed Transmission equipped tractors a foot operated inching pedal, Figure 6, allows you to ease into implements when attaching them, and can be used for quick disengagement of power to the rear wheels.

#### **BRAKE PEDALS**

Foot operated brake pedals are provided on the right side of the transmission housing. To stop the tractor, depress both pedals simultaneously. Apply the right brake when making short right turns, and the left brake when turning left.

## BRAKE PEDAL LOCKS

Brake locks, located on the right and left sides of the rear axle housing should always be set before leaving the tractor. To lock either brake, first pull up the brake control rod and set in the notch of the bracket, depress the corresponding brake pedal to engage the brake pawl. To release either brake, release the brake control rod and depress the brake pedal sharply. This will disengage the brake pawl from the brake lock.

By setting the levers in the notches the operator can quickly apply the brakes at any given time without removing his hands from the wheel.

## POWER TAKE-OFF LEVER

The power take-off lever is located on the left side of the center housing. The power take-off is engaged when the lever is in the rear position (see Figure 4), and disengaged when the lever is forward. Always depress the clutch pedal when engaging or disengaging the power take-off while the tractor engine is running.

## PTO CONTROL KNOB

On tractors equipped with the Select-O-Speed Transmission the P.T.O. control knob is conveniently located in front of the operator as shown in Figure 2. Slowly pulling the knob outward permits gradual engagement of the P.T.O. shaft to ease into loads.

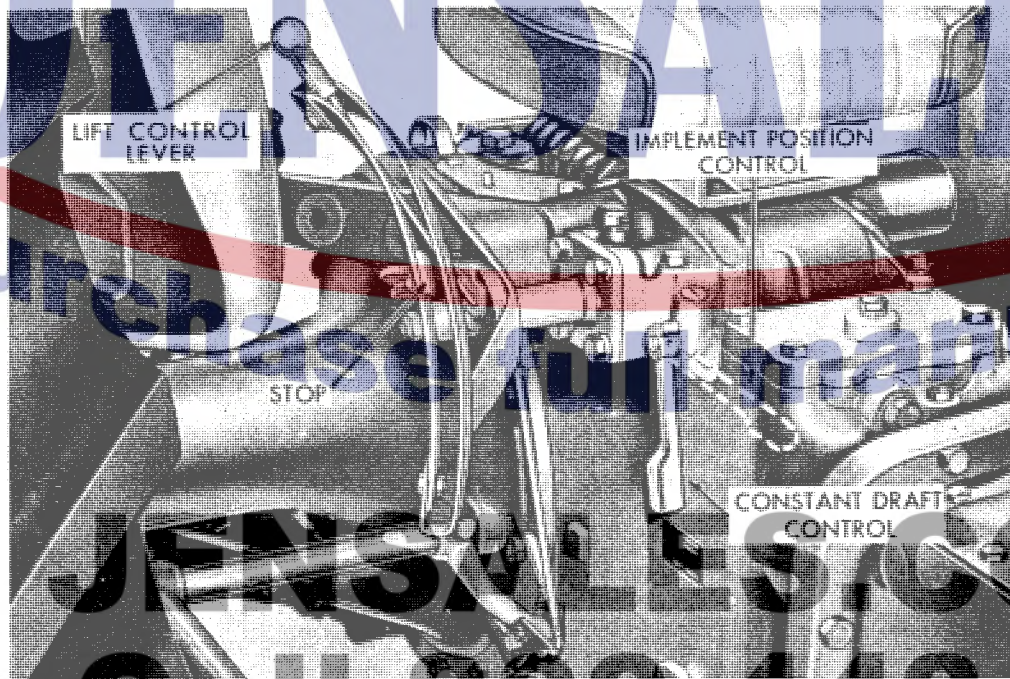
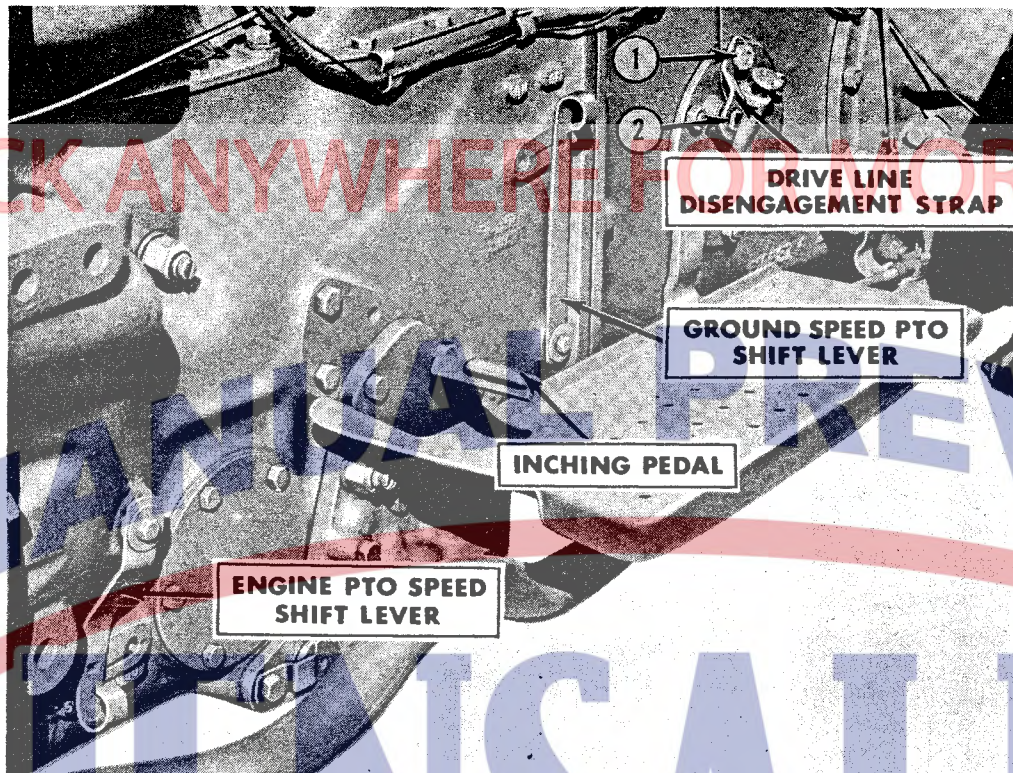


Figure 5  
Hydraulic Control Levers



*Figure 6*  
*Controls on the Select-O-Speed Transmission*

#### **ENGINE P.T.O. SPEED SHIFT LEVER**

Two engine P.T.O. speeds are available on the Model 1881-D tractor. When the P.T.O. speed shift lever, Figure 6, is in the forward position the P.T.O. shaft turns at the standard ASAE speed of 540 rpm. When the speed shift lever is in the rear position the shaft turns at 1000 rpm.

#### **GROUND SPEED P.T.O. SHIFT LEVER**

The proportional ground speed P.T.O. is available on the Model 1881-D tractor. Move the ground speed P.T.O. shift lever, Figure 6, to the forward position to place the shaft in operation. To stop the shaft, move the lever back into the "OFF" position.

#### **DRIVE LINE DISENGAGEMENT STRAP**

To tow or push a Select-O-Speed Transmission equipped tractor, when the engine is not running, the drive line must be disengaged from the rear axle. This is necessary as the Select-O-Speed Transmission shifts automatically to park (P) whenever the engine stops. Operation of the disengagement strap, Figure 6, is described on page 21 of this manual.