



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Ford

Operator's Manual

231, 340, 445,  
531, 540 & 545

Industrial

Operator's Manual

JENSALES.COM

or Call 800-443-0625



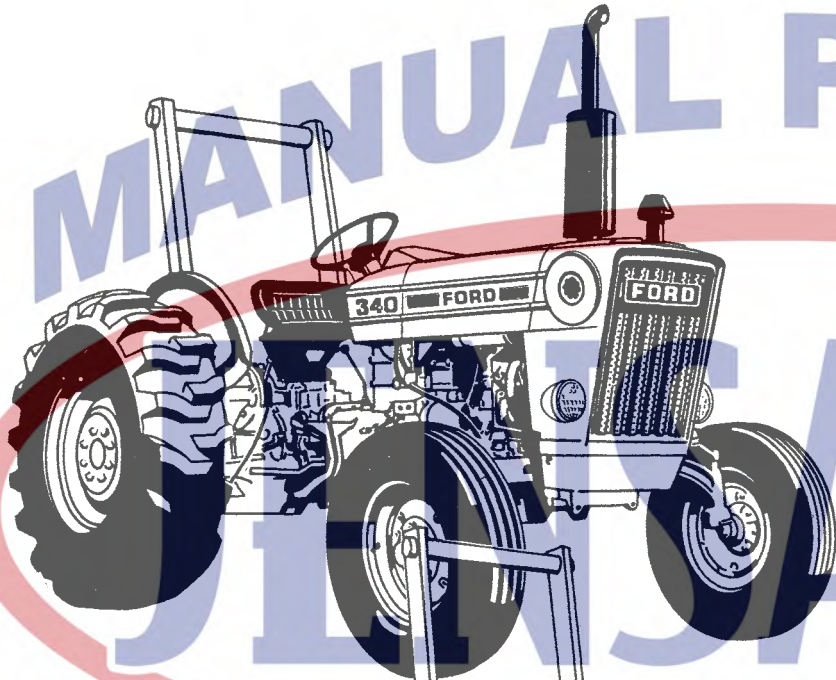
CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF  
FORD OR IT'S SUCCESSORS. FORD AND IT'S SUCCESSORS  
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,  
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

# FORD

CLICK ANYWHERE FOR MORE DETAILS



231

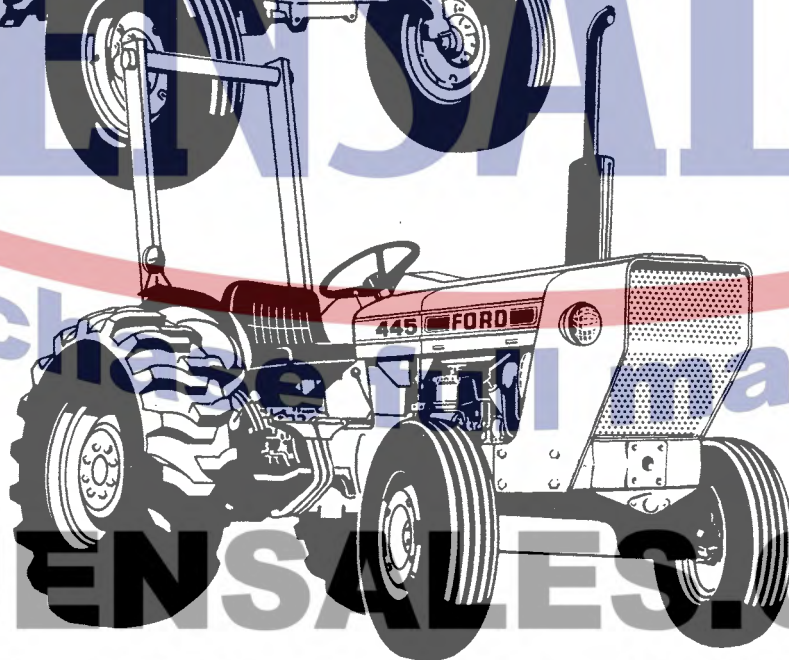
340

445

531<sup>®</sup>

540

545



or Call 800-443-0625

## OPERATOR'S MANUAL

CLICK ANYWHERE FOR MORE DETAILS

## CONTENTS

CLICK ANYWHERE FOR MORE DETAILS

|                                                                 | Page |
|-----------------------------------------------------------------|------|
| <b>Safety Precautions</b>                                       | 4    |
| <b>Controls and Instruments</b>                                 | 5    |
| seat, light, and engine controls                                | 6    |
| brake controls                                                  | 10   |
| manual shift and power reversing transmission and PTO control   | 11   |
| hydraulic lift system controls                                  | 14   |
| <b>Operation</b>                                                | 17   |
| break-in procedures                                             | 18   |
| starting the engine                                             | 18   |
| stopping the engine                                             | 20   |
| operating manual shift and power reversing transmission and PTO | 21   |
| towing the tractor                                              | 23   |
| operating differential lock                                     | 23   |
| operating hydraulic lift system                                 | 24   |
| lift linkage and drawbar                                        | 26   |
| wheel tread settings                                            | 30   |
| tractor weighting                                               | 32   |
| <b>Lubrication and Maintenance</b>                              | 37   |
| lubrication and maintenance chart                               | 38   |
| fuels and lubricants                                            | 39   |
| fuel and lubricant service procedures                           | 41   |
| general maintenance                                             | 52   |
| tractor storage                                                 | 60   |
| accessories                                                     | 61   |
| <b>Specifications</b>                                           | 63   |
| <b>Decals</b>                                                   | 73   |
| <b>Pre-Delivery and 50-Hour Service</b>                         | 74   |

## ROLL OVER PROTECTIVE STRUCTURE (ROPS) AND SEAT BELT

Tractors equipped with 2-post or 4-post ROPS, Figures 4 and 5, are also equipped with a seat belt.



**CAUTION:** Always use the seat belt when the tractor is equipped with a ROPS. Never use the seat belt when the tractor is not equipped with a ROPS.

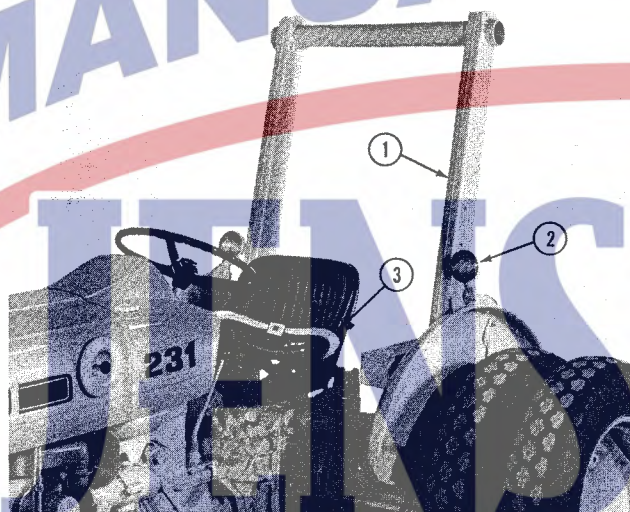


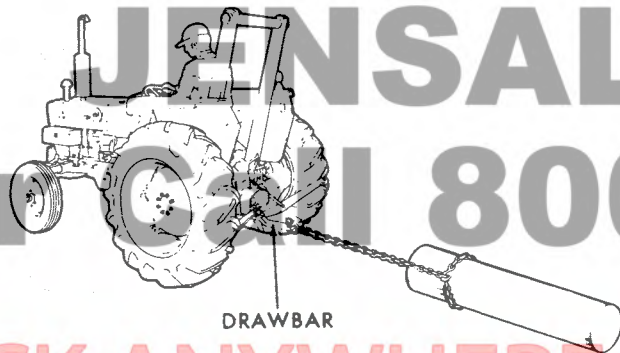
Figure 4

### 2-Post Roll Over Protective Structure (ROPS)

1. 2-Post ROPS
2. Flashing Warning Lamp
3. Seat Belt



**CAUTION:** Never attach chains, ropes, or the like to the roll bar for pulling purposes; this can be very dangerous, as the tractor can tip backward. Always pull from the tractor drawbar.



**CAUTION:** Be careful when driving through door openings or under low overhead objects. Make sure there is sufficient clearance for the ROPS to clear the structure or object.

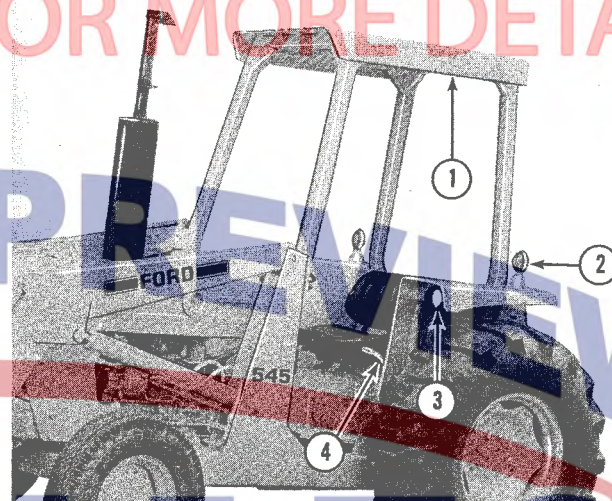


Figure 5

### 4-Post Roll Over Protective Structure (ROPS)

1. 4-Post ROPS
2. Flasher Warning Light
3. Head Lamp (Optional with Flat Top Fenders)
4. Seat Belt

## ADJUSTING THE SEAT BELT

To lengthen the belt, tip the buckle end down and pull on the buckle until the ends can be joined.

To shorten the belt, buckle it, then pull on the loose end until the belt is snug.

If the seat belt is to be cleaned, use soap and water. Do not use carbon tetrachloride, naphtha, etc., as these will weaken the webbing. Also, for the same reason, do not bleach or dye the webbing.

## FLASHING WARNING LIGHT

The flashing warning light is shown in Figure 4. Push the switch on the lamp housing to turn the flasher "ON" or "OFF." The tractor light switch, Figure 6, must be "ON" before the flasher will operate.

**IMPORTANT:** For your protection, use the flashing safety lamp when traveling on public roads, day and night, unless prohibited by law.

## OPERATION

### WHEEL TREAD SETTINGS

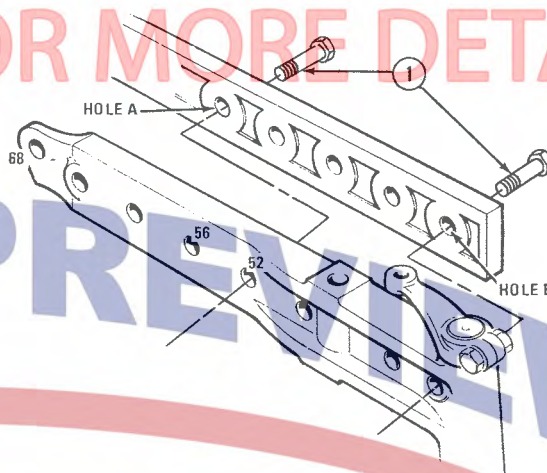
The following paragraphs cover wheel tread settings. Refer to page 58 for toe-in adjustment.

#### FRONT WHEEL TREAD SETTINGS

##### Ford 231 and 531

The front wheel tread width is adjustable as follows in four inch increments, Figure 34.

- 54—78 inches (1372-1981 mm) with 6.50-13 tires.
- 60—76 inches (1524-1930 mm) with 6.00-16 tires.
- 56—78 inches (1422-1981 mm) with 9.00-10 tires.



| FOR TREAD WIDTH (INCHES) |        | LINE UP<br>HOLE A<br>AND<br>HOLE NO. | LINE UP<br>HOLE B<br>AND<br>HOLE NO. | SPACE BOLTS APART |       |
|--------------------------|--------|--------------------------------------|--------------------------------------|-------------------|-------|
| FORD 231 AND 531         |        |                                      |                                      |                   |       |
| INCHES                   | (mm)   |                                      |                                      | INCHES            | (mm)  |
| 54                       | (1372) | 52                                   |                                      | 8-1/2             | (216) |
| 58**                     | (1473) | 56                                   |                                      | 8-1/2             | (216) |
| 62***                    | (1575) | 60                                   |                                      | 6-3/8             | (162) |
| 66***                    | (1676) | 64                                   |                                      | 8-1/2             | (216) |
| 70***                    | (1778) | 68                                   |                                      | 8-1/2             | (216) |
| 74***                    | (1880) |                                      | 56                                   | 6-3/8             | (162) |
| 78***                    | (1981) |                                      | 60                                   | 4-1/4             | (108) |

\*\* When using optional 9.00-10 tires and wheels, subtract 2 inches from the dimensions listed.

\*\*\* When using optional 6.00-16 tires and wheels, subtract 2 inches from the dimensions listed.

#### CHANGING FRONT WHEEL TREAD SETTINGS

1. Raise the front end of the tractor with a jack placed under the center of the front axle.
2. Working on one outer axle section at a time, remove the axle bolts, Figure 34.
3. Move the axle in or out until the desired setting is obtained, then install the axle bolts through the holes according to the chart in Figure 34.

Figure 34  
Front Wheel Tread Settings

1. Axle Bolts

##### Ford 340 and 540

The front wheel tread width is set at 54 inches (1372 mm) and cannot be adjusted.

##### Ford 445 and 545

The front wheel tread width is set at 55.1 inches (1400 mm) and cannot be adjusted.

### REAR WHEEL TREAD SETTINGS

#### Ford 231 and 531

When equipped with the standard 8.30 x 24 in. tires, the rear wheels may be set at either 56 in. (1422 mm) or 75 in. (1905 mm). Figure 35 shows 8.30 x 24 in. tires installed as duals. When installed singly, either the narrow or wide tread setting may be selected. The optional 18.4 x 16 tires are mounted on a 75 in. (1905 mm) fixed tread setting only.

# INDEX

|                                                      | Page     |                                                                         | Page  |
|------------------------------------------------------|----------|-------------------------------------------------------------------------|-------|
| Adjustable Upper Link .....                          | 29       | Lamps .....                                                             | 58    |
| Adjusting the Seat Belt .....                        | 7        | Left Lift Rod .....                                                     | 29    |
| Air Cleaner .....                                    | 55       | Leveling Crank .....                                                    | 29    |
| Air Cleaner Restriction Warning Light .....          | 9        | Lift Linkage and Drawbar .....                                          | 26    |
| Alternator .....                                     | 58       | Light Switch .....                                                      | 8     |
| Attaching Equipment .....                            | 29       | Liquid Ballast .....                                                    | 32    |
| Attaching the PTO .....                              | 22       | Lubricant Storage .....                                                 | 39    |
| Auxiliary Service Control Valve .....                | 15,26    | Lubricating Seat .....                                                  | 45    |
| Battery .....                                        | 57       | Lubricating Steering Gear Housing .....                                 | 44    |
| Bleeding Fuel System .....                           | 43       | Lubrication and Maintenance .....                                       | 37    |
| Brake Adjustment .....                               | 59       | Lubrication Fittings .....                                              | 46    |
| Brake Controls .....                                 | 10       | Manual Shift and Power Reversing Transmission<br>and PTO Controls ..... | 11    |
| Brake Pedal Lock .....                               | 10       | Operating Differential Lock .....                                       | 23    |
| Brake Pedals .....                                   | 10       | Operating the Hydraulic Lift System .....                               | 24    |
| Break-In Procedures .....                            | 18       | Operating the PTO .....                                                 | 22    |
| Cast Iron Weights .....                              | 32       | Operating the Transmission and PTO<br>Operation .....                   | 20    |
| Category I and II Linkage .....                      | 27       | Operation .....                                                         | 17    |
| Changing Engine Oil and Filter .....                 | 42       | Parking Brake Handle .....                                              | 10    |
| Changing Front Wheel Tread Setting .....             | 30       | Position and Draft Control .....                                        | 24    |
| Charge Indicator Light .....                         | 9        | Position Control .....                                                  | 24    |
| Checking and Changing Rear Axle Oil and Filter ..... | 50,51,52 | PTO Control Levers — Live and Transmission PTO .....                    | 13    |
| Checking and Changing Transmission Oil .....         | 49       | PTO Speed and Engine Speed .....                                        | 23    |
| Checking Engine Oil Level .....                      | 41       | Power Steering Reservoir .....                                          | 45    |
| Clutch .....                                         | 13       | Power Take-Off .....                                                    | 22    |
| Clutch Pedal Adjustment .....                        | 59       | Proofmeter .....                                                        | 9     |
| Cold Weather Starting .....                          | 18       | Rear Wheel Tread Setting .....                                          | 31    |
| Controls and Instruments .....                       | 5        | Rear Wheel Weights .....                                                | 34    |
| Coolant Immersion Heater .....                       | 20       | Refueling the Tractor .....                                             | 41    |
| Cooling System Maintenance .....                     | 52       | Remote Control Valves .....                                             | 15,26 |
| Diesel Engine Stop Control .....                     | 8        | Roll Over Protective Structure<br>(ROPS) and Seat Belt .....            | 6     |
| Diesel Fuel Filter .....                             | 43       | Safety Precautions .....                                                | 4     |
| Diesel Fuel Storage .....                            | 39       | Seat, Light and Engine Controls .....                                   | 6     |
| Differential Lock .....                              | 11       | Spacer Installation .....                                               | 59    |
| Draft Control .....                                  | 24       | Specifications .....                                                    | 63    |
| Draft Sensing System .....                           | 24       | Stabilizers .....                                                       | 27    |
| Emergency Handbrake .....                            | 11       | Starting the Engine .....                                               | 18    |
| Engine Oil Pressure Warning Light .....              | 9        | Stopping the Engine .....                                               | 20    |
| Engine Speed Adjustment .....                        | 54       | Swinging Drawbar .....                                                  | 29    |
| Engine Valve Clearance .....                         | 56       | Temperature Gauge .....                                                 | 8     |
| Flashing Warning Lamp .....                          | 7        | Tire Pressure .....                                                     | 35,58 |
| Float Valve .....                                    | 26       | Towing the Tractor .....                                                | 23    |
| Flow Control .....                                   | 14,25    | Tractor Hydraulic Lift Rocker .....                                     | 26    |
| Foot Throttle .....                                  | 8        | Tractor Seat .....                                                      | 6     |
| Front Wheel Bearings .....                           | 58       | Tractor Storage .....                                                   | 60    |
| Front Wheel Toe-In .....                             | 58       | Tractor Weighting .....                                                 | 32    |
| Front Wheel Tread Setting .....                      | 30       | Transmission Oil Temperature Warning Light .....                        | 9     |
| Front Wheel Weights .....                            | 33       | Voltage Regulator .....                                                 | 58    |
| Fuel Gauge .....                                     | 8        | Warm Weather Starting .....                                             | 18    |
| Fuel Shut-Off Valve .....                            | 9        | Weighting Limitations .....                                             | 34    |
| Gasoline Engine Choke Control .....                  | 8        | Wheel Tread Settings .....                                              | 30    |
| Gasoline Fuel Storage .....                          | 40       | 4 x 4 Power Reversing Transmission Gearshift Levers .....               | 11    |
| Hand Throttle .....                                  | 8        | 4 x 4 Power Reversing Transmission .....                                | 20    |
| Hydraulic Lift Control Levers .....                  | 14       | 6 x 2 Manual Transmission .....                                         | 12,21 |
| Hydraulic Lift System Controls .....                 | 14       | 6 x 4 Manual Transmission .....                                         | 12,22 |
| Ignition System Maintenance .....                    | 53       | 8 x 2 Manual Transmission .....                                         | 12,22 |
| Independent PTO Control Lever .....                  | 13       |                                                                         |       |
| Key-Starter Switch .....                             | 8        |                                                                         |       |