FORD TRACTOR

701 AND 901 SERIES



Prepared by
TRACTOR AND IMPLEMENT DIVISION
FORD MOTOR COMPANY

FORD Row TRACTOR SERIES 701 AND 901 OWNER'S MANUAL

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Prepared by

FORD MOTOR COMPANY BIRMINGHAM, MICHIGAN

Litho In U.S.A.

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STANDARD AND OPTIONAL EQUIPMENT CHART

	ROW CROP MODELS	741	941	951	961
	Four Speed Transmission	×	×		
	Five Speed Transmission			x	х
	Proof-Meter	х	х	×	X
	Temperature Gauge	х	х	x	х
	Fuel Gauge	х	х	х	X
5	Charge Light Indicator	x	x	x	X
PME	Hydraulic System	x	х	×	X
EQUI	Three Point Linkage	х	x	х	x
ARD	Power Take-Off	x	х	х	X
STANDARD EQUIPMENT	Live Power Take-Off				х
	Drawbar	х	х	х	х
	Power Adjusted Rear Wheels		x	x	х
	Lights	х	х	×	X
	Rest-O-Ride Seat	х	х	х	Х
	Tools and Tool Box	х	х	х	х
	Power Steering	×	x	×	х
	Power Adjusted Rear Wheels	х			
OPTIONAL	Single Front Wheel	х	х	×	X
	Dual Front Wheel	×	x	x	X
Egu	Adjustable Front Axle	х	×	х	X
	Auxiliary Transmission	х	х		

FOREWORD

We wish to congratulate you on your choice of the new Row Crop Ford Tractor. We are happy to have you as a customer and are confident that you will receive unequalled performance from the model you have selected.

This manual has been prepared to acquaint you with the many features of your new Ford Tractor. Due to the selection of front axle types, engines, transmissions and clutches available with the Row Crop Ford Tractors, most of the information presented here is general and applies to both Series 701 and 901 Tractors. Where differences exist, specific information is presented for each series or model. Read this manual carefully at your first opportunity and keep it in a convenient location for later reference. You will be particularly interested in the "break-in" instructions starting on Page 18, and the maintenance instructions starting on Page 34.

If, at any time, you have a question or problem concerning your new tractor, remember that your Ford Tractor and Implement Dealer is best qualified and equipped to serve your needs. With the proper treatment and service, your Row Crop Ford Tractor should provide you with a long life of profitable and dependable service.

> TRACTOR AND IMPLEMENT DIVISION FORD MOTOR COMPANY SERVICE DEPARTMENT



TRACTOR MODEL AND SERIAL NUMBER

Row Crop Ford Tractors are identified by the model numbers 741, 941, 951 and 961. These numbers identify the type of tractor, engine, transmission and clutch.

When ordering parts or requesting information from your Ford Tractor and Implement Dealer, always specify the Model and Serial Number of your Ford Tractor.

The Model and Serial Number is located on the left front side of the transmission housing and should be recorded immediately in the space provided below.

	MODEL	
SERIA	AL NO.	

FRONT WHEEL TYPES

Your new Ford Tractor is equipped with one of three front wheel types, each of which contributes to the over-all desired working performance of your particular model.

The Dual Front Wheel, Single Front Wheel and Adjustable Front Axle Row Crop Ford Tractors were designed to cover a wide range of planting and cultivating operations, with and without front mounted equipment.

Each of these front wheel types is described in this section so that you may be afforded an opportunity to acquaint yourself with the versatility of your new Ford Tractor.



Apply both brakes evenly when making sudden stops.

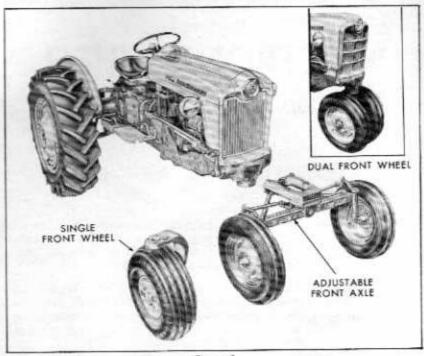


Figure 1 Row Crop Ford Tractors

DUAL FRONT WHEEL MODELS

The dual front wheel Ford Tractor is available in both the 701 and 901 Series. With its tricycle feature, it is desirable for use with front mounted equipment for planting and cultivating operations.

SINGLE FRONT WHEEL MODELS

The single front wheel Ford Tractor, also available in both the 701 and 901 Series, is especially desirable for use in irrigated fields. The single front wheel travels in the narrow furrow and steers easily with a minimum of disturbance to the furrow wall.

The single front axle shown in Figure 1 is bolted to the tractor "pedestal" a design feature which provides for the interchangeability of tractor types, from a tricycle model to a four wheel model by utilizing the adjustable front axle sold as optional equipment.

ADJUSTABLE FRONT AXLE MODELS

The adjustable front axle Ford Tractor is a four wheel model available in both the 701 and 901 Series, This model provides more belly clearance as a four wheel tractor when using specialized cultivating equipment. The adjustable front axle (See Figure 1) is bolted to the tractor pedestal. The pedestal design feature permits your Ford Tractor to serve as an all purpose or a row crop tractor byutilizing the single wheel or dual front wheel option available at extra cost. Agricultural type loaders and other equipment normally associated with four wheel tractors may also be utilized.

FRONT WHEEL OPTIONS

Owners of either the single wheel adjustable front axle or dual front wheel Ford Tractors, who desire to take advantage of the pedestal feature of these tractors, may obtain either front axle option at additional cost. See your local Ford Tractor and Implement Dealer.

Tractor Service Policy



At the time of delivery of your new tractor, the Ford Tractor and Implement Dealer presented to you a copy of the Service Policy shown above. This policy certifies that your new Ford Tractor has been properly inspected and prepared for delivery by the dealer.

The policy should be presented to the dealer whenever you request any service which is authorized on it. We recommend, therefore, that you keep the policy in a safe place for ready reference at all times.

CONTROLS AND INSTRUMENTS

The controls on your new Ford Tractor are designed to help you do more work with the greatest possible convenience and comfort. All are within easy reach and are simple to operate.

The well-grouped instruments tell you, at a glance, whether the engine is operating efficiently and warn you of the possibility of trouble before it becomes serious.

Before attempting to start or operate your new tractor, familiarize yourself with the location and function of all controls and instruments.



Know your controls and instruments to assure Safe Operation.

CONTROLS AND INSTRUMENTS

REST-O-RIDE TRACTOR SEAT

Take your place in the tractor seat. Special torsional rubber springs provide maximum comfort and safety, and permit adjustments to fit the weight of nearly any operator. If the seat is not in the most comfortable operating position, it may be moved forward, rearward or tilted up and down. The seat pan may be tilted back, permitting the operator to stand, or to protect it from dew and rain.

LIGHT SWITCH

The tractor lights are operated by means of a switch on the lower right side of the instrument panel, just below the side panel. Pull the switch out to turn the lights on.

IGNITION SWITCH

The ignition switch is located on the lower left side of the instrument panel, just below the side panel. Turn the key clockwise to turn the ignition on, and counter-clockwise to turn it off.

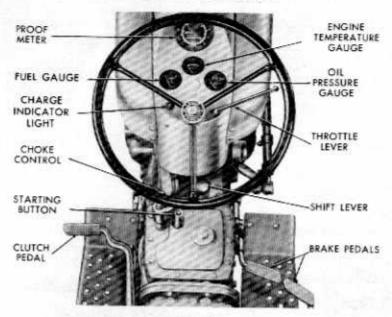
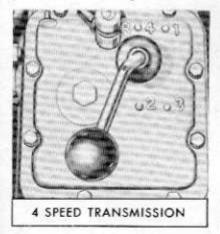


Figure 2 Controls and Instruments

CHOKE CONTROL

Initial starting may require the use of the choke control located to the left of the starter button. After the engine has been sufficiently warmed up, the choke control should be returned to its normal position as soon as possible.



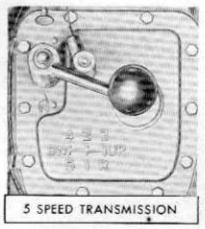


Figure 3 Gear Shift Positions

GEAR SHIFT LEVER

The gear shift lever is located directly in front of the tractor seat.

For your convenience, a diagram of the shift pattern is provided on the transmission cover. The shift positions for both four and five speed transmissions are shown in Figure 3.

STARTER BUTTON

The Ford Tractor is equipped with a safety type starter button, located on top of the transmission housing within easy reach of the operator. The safety feature incorporated in the starter makes it impossible to depress the starter button without first placing the gear shift lever in the neutral position.

THROTTLE CONTROL

The hand operated throttle control is located at the right side of the steering wheel column. Pull the lever down to increase the engine speed.

OIL PRESSURE GAUGE

The engine oil pressure gauge indicates the oil pressure through oil passages, but does not show the amount of oil in the crankcase. Oil in the crankcase can become dangerously low and still show pressure on the gauge. Check the pressure gauge periodically when operating your tractor to be sure that the lubrication system is operating satisfactorily.

TEMPERATURE GAUGE

The engine temperature gauge at the top center of the instrument cluster registers the temperature of coolant in the cooling system. Form the habit of checking this gauge frequently. The green block indicates normal temperature, red indicates overheating and orange shows that the engine is operating at too cold a temperature.

FUEL GAUGE

The fuel gauge indicates the fuel level when the ignition switch is turned on. Check this gauge frequently to make sure the fuel supply is adequate.

CHARGE INDICATOR LIGHT

The generator charge indicator light will flash on when the ignition switch is turned on and while starting the engine. After the engine starts and the engine speed is increased, the light will go out. The charge indicator light flashes on if the generator is not supplying current to the battery.

CLUTCH PEDAL

The foot operated clutch pedal, located on the left side of the transmission housing, must be depressed to disengage the clutch. For information on the live PTO clutch (Tractor Model 961), see the section on power take-off operation, page 24.

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. CAUTION: DO NOT MAKE SHORT TURNS WHEN TRAVELING AT HIGH SPEEDS.

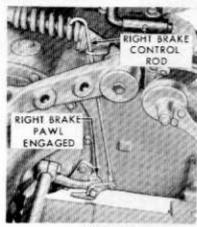


Figure 4 Brake Pawl Engaged

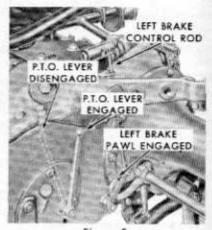


Figure 5 Power Take-Off Lever Engaged

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 depress the right or the left brake pedal and pull upward on the corresponding brake control rod to engage the brake pawl. To insure lock engagement, release the brake pedal slightly while holding the control rod upward. See Figures 4 and 5. To release either brake, depress the desired brake pedal sharply. This will permit the spring loaded brake control rod to disengage the brake pawl from the brake lock.

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 5), 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.

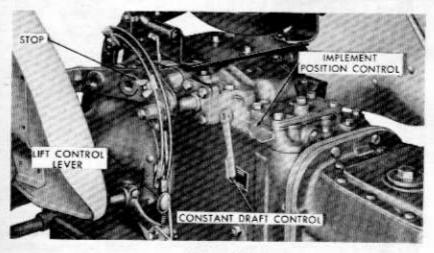


Figure 6 Hydraulic Control Levers

HYDRAULIC LIFT CONTROL LEVER

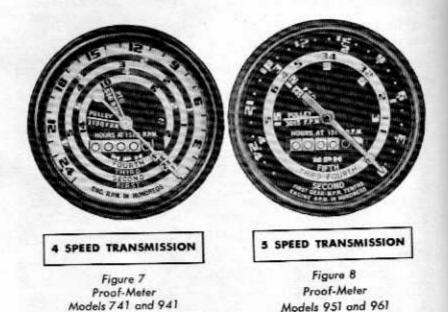
The lift control lever, which controls the hydraulic system, is the large lever to the right of the tractor seat. To raise the lift arms, raise the lever to the top position. To lower the lift arms, push the lever to the lower position.

SELECTOR LEVER

The selector lever under the tractor seat changes the hydraulic system from constant draft to implement position control. Place the lever in the "Down" position for Constant Draft Control, and in the "Up" or horizontal position for Implement Position Control. See Figure 6.

FUEL SHUT-OFF VALVE

The fuel shut-off valve is located at the center underside of the fuel tank (see Figure 32). Turn the valve to the right (clockwise) to shut off the fuel supply to the carburetor. Turn the valve (counterclockwise) to the stop to allow the fuel to flow.



PROOF-METER

The Ford Tractor Proof-Meter, conveniently located at the top center of the instrument panel, is actually five instruments in one. At a quick glance, it tells you the engine speed, tractor ground speed, P.T.O. speed, belt pulley F.P.M. and hours worked. The separate functions of the Proof-Meter are described in the following paragraphs and illustrations.

Engine Speed: Engine revolutions per minute (R.P.M.) are shown in hundreds on the outer band of the Proof-Meter as the long needle moves from 0 to 24. Knowing the correct engine speed is helpful in checking correct oil pressure and maintaining the proper engine idle speed.

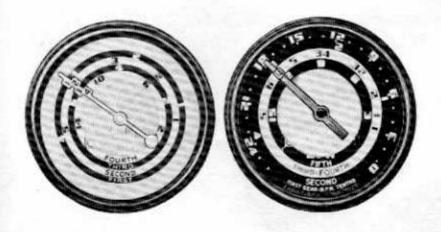


Figure 9
Tractor Ground Speed (M.P.H.)

Tractor Ground Speed: The ground speed (M.P.H.) on Models 741 and 941 tractors with four speed transmissions is indicated by the long needle, and is read in the band directly under the gear number on the needle as shown in Figure 9. On tractors with five speed transmissions, the speed is read in the same manner except in third and fourth gear, where the respective speeds are indicated in different colors. In field operations such as mowing, planting, spraying and combining, proper tractor speed is very important. With the Proof-Meter, you can be sure that your tractor ground speed is right.

P.T.O. Speed: The American Society of Agricultural Engineers (A.S.A.E.) standard for power take-off speed is 540 revolutions per minute as shown in Figure 10. Most power take-off implements will operate at maximum efficiency when the Proof-Meter needle is held at this speed. For further information on the Power Take-Off, refer to Page 24 of this manual.

Belt Pulley Speed: The performance of most stationary farm implements is better and safer when they are operated at the correct belt pulley speed. The A.S.A.E. has standardized the belt speeds on farm tractors at 3000 to 3200 feet per minute. On tractors with four speed transmissions, with the standard 9-inch belt pulley, (sold as extra equipment) the standard belt speed is 3199 feet per minute at 2000 engine R.P.M. as shown on the four speed Proof-Meter. (See Figure 11.) On tractors with five speed transmissions, the standard belt speed is 3013 feet per minute at 2200 engine R.P.M. Additional information on operating the belt pulley is included in the section on OPERATION, Page 25 of this manual.

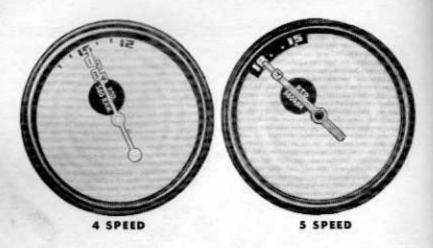


Figure 10 Power Take-Off Speed

Engine Hours: The hour meter portion of the Proof-Meter represents the hours your tractor engine has "worked," based on an average engine speed of 1515 revolutions per minute. Engine speeds below 1515 revolutions accumulate hours more slowly than clock hours, and those above 1515 R.P.M. register faster than clock hours. Use this feature of the Proof-Meter to determine when service and maintenance are necessary. It will help you cut operating costs and prolong the life of your new tractor.

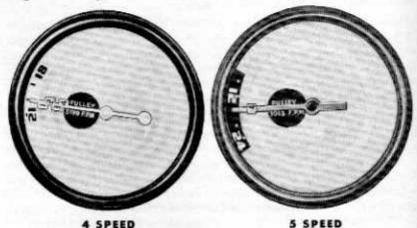


Figure 11 Belt Pulley Speed

OPERATION

Your new Ford Tractor has been built with the knowledge gained through manufacturing over two million farm tractors. In it you will find many new and exclusive features, designed to make your work easier, faster and more profitable.

After familiarizing yourself with the tractor controls and instruments, read the following instructions on OPERATION. They will help you obtain maximum efficiency and dependable operation from your new Ford Tractor.



A careful operator is the best insurance against accidents.

OPERATION

PRE-STARTING CHECK

Your Ford Tractor and Implement Dealer has checked your tractor thoroughly. We suggest, however, that you double check the tractor before placing it in operation. Make certain that the crankcase, transmission, hydraulic system, pedestal, rear axle and final drive housings are filled to the recommended level. Check the tires for proper air pressure and be sure that the radiator is filled with coolant.

FUEL

Ford high compression gasoline engines are designed to operate most efficiently with the anti-knock qualities in good regular grade gasoline. The use of poor quality fuel can cause knocking, overheating and engine failure.

BREAK-IN PROCEDURE

Your new Ford Tractor should provide long and dependable service if given a good start by you, the operator. During the first 50 hours of operation, do not work the tractor at full capacity. Run the engine at slow to medium speeds and use the lower gears wherever possible. Check the instruments frequently and keep the radiator and oil reservoirs filled to the recommended level.

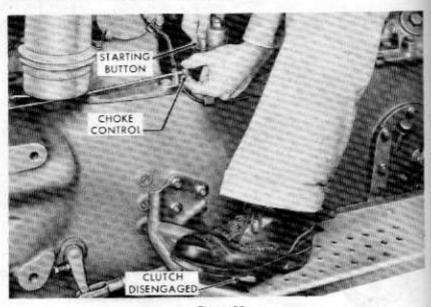


Figure 12
Using the Starter Button, Choke and Clutch Pedal

After 50 hours of operation, see your Ford Tractor and Implement Dealer. He will perform all necessary checks and adjustments in the 50 HOURS SERVICE AND INSPECTION, authorized by your Service Policy.

STARTING THE ENGINE

To start the engine under normal weather conditions, move the throttle lever to approximately ¼ open position, set the gear shift lever in neutral and turn the ignition key clockwise. Then, simply depress the clutch pedal and press the starter.

Initial starting of the engine, may require the use of the choke. Under these conditions, pull out the choke control and depress the starting button at the same time. As soon as the engine starts, push the choke in to its normal operating position. Run the engine at about 1000 RPM until it warms up before placing it under a load.

OPERATING THE TRACTOR

Start the engine, release both rear wheel brake locks and depress the clutch pedal. Next, move the gear shift lever to the desired gear speed. The shift positions are clearly indicated on the transmission cover and are shown in Figure 3.

You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular field operation. Operating the tractor in low gear with a light load and high engine speed is a waste of fuel. "Lugging" occurs when the load for a particular gear and throttle setting is excessive.

After shifting to the desired gear speed, increase the engine speed slightly and release the clutch pedal in the same manner as you would when driving an automobile. When the tractor is in motion, remove your foot from the clutch pedal and increase the ground speed as desired.

To stop the tractor, depress the clutch pedal and decrease the engine speed. Apply pressure evenly to both brake pedals until the tractor is stopped, then place the gear shift lever in the neutral position, lock the brakes and turn the ignition key off. If the engine is hot, let it idle for a few seconds before turning the ignition key off.

CAUTION: DO NOT ATTEMPT TO SHIFT GEARS WHILE THE TRACTOR IS IN MOTION. DO NOT TOW TRACTOR FASTER THAN 20 M.P.H.

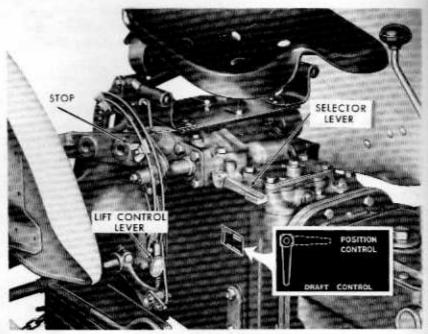


Figure 13
Hydraulic Control Levers

OPERATING THE HYDRAULIC SYSTEM

One of the outstanding features of your new Ford Tractor is the Live Action Hydraulic System. By simply moving the Lift Control Lever, the system provides instant hydraulic power for raising or lowering a wide variety of implements. Regardless of whether the clutch pedal is up or down, or whether the P.T.O. is engaged or disengaged, the system will respond smoothly, enabling you to adjust implement depth within fractions of an inch.

The system incorporates two types of hydraulic control. Depending upon the type of implement used and the soil conditions and terrain encountered, the system may be operated in Implement Position Control or in Constant Draft Control.

Implement Position Control: To operate the hydraulic system in Implement Position Control, move the selector lever at the side of the tractor seat into the "UP" position (see Figure 13), and set the implement at the desired depth by moving the Lift Control Lever down. Where the ground is relatively level, the position control will keep the implement at the desired depth, even though the soil texture may vary.

By setting the adjustable stop on the quadrant, the implement can always be returned to the original depth by moving the Lift Control Lever down to the stop.

Constant Draft Control: With the selector lever in the "DOWN" position, as shown in Figure 13, the hydraulic system is operating in Constant Draft Control. When an implement is lowered to work at a certain depth, the draft control will maintain the same draft, even though the ground contour or soil texture may change. If the draft increases, the hydraulic system will respond by raising the implement to decrease the draft. At the same time, the weight will shift to the tractor rear wheels, increasing traction until the implement has been automatically repositioned and the draft is decreased.

When necessary, the operator may use the Lift Control Lever to make small adjustments in the system.

Hydraulic Piston Pump: Your new Ford Tractor is equipped with a piston pump, containing six pistons. The pump, shown in Figure 14, is gear driven and provides a constant flow of oil to the Ford Tractor "live action" hydraulic system in volumes which are proportional to engine speeds. For maximum efficiency of operation and long pump life, always use the recommended hydraulic fluid (Ford Spec. M-4864-A) when filling the tractor hydraulic reservoir. Always use clean containers for this operation. When service on the hydraulic system becomes necessary, see your local Ford Tractor and Implement Dealer. He is properly trained and equipped to meet your service needs.

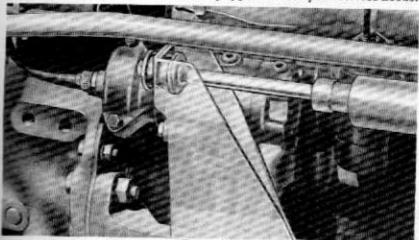


Figure 14 Hydraulic Piston Pump

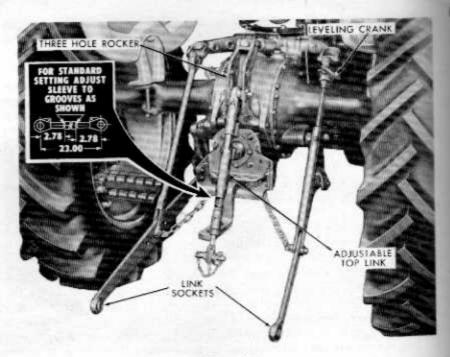


Figure 15 Leveling Crank and Adjustable Top Link

ATTACHING IMPLEMENTS

Most implements can be easily and quickly attached to the tractor three point linkage. With the selector lever in Implement Position Control, back the tractor so that the lift links are directly above the cross shaft of the implement. Lower the links with the Lift Control Lever, until the sockets are aligned with the ends of the shaft. Attach the left link to the shaft and secure with the linch pin provided, then adjust the right link with the leveling crank (see Figure 15) and attach it in the same manner. Attach the adjustable top link to the implement and secure it with the linch pin.

Three Hole Hydraulic Lift Rocker: The three hole hydraulic lift rocker on the Row Crop Ford Tractor provides better control of sensitivity for light and heavy draft implements. Attach the top link in the upper hole for light draft loads (cultivating), in the middle hole for plowing (tractor wheel in furrow) and in the low hole for miscellaneous heavy draft loads when the tractor is level.

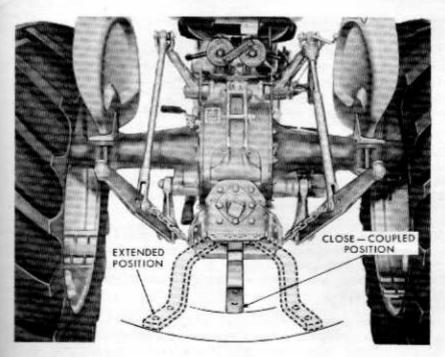


Figure 16 Swinging Drawbar

Adjustable Top Link: The fully adjustable top link provides improved implement performance and operation. The link may be adjusted to suit implement operation requirements by releasing the lock and rotating the sleeve until the desired length is obtained. The standard length of 23 inches is obtained by adjusting the link as shown on a decal located on the sleeve. (See insert, Figure 15.)

"Swinging Drowbor: The swinging drawbar provided as standard equipment on your Ford Tractor, permits quick, easy attachment of pull type implements. The tractor can be operated with the swinging drawbar in either the "close-coupled" or "extended" positions (see Figure 16). The drawbar may also be set and used in different positions either to the left or right of center (seven in all). When operating with P.T.O. driven equipment, the drawbar should always be in the "extended" position with the offset down.

CAUTION: Remove the Swinging Drawbar when attaching close mounted implements.

*Use bolts (not furnished) one on each side of drawbar in center position when P.T.O. is used.

POWER TAKE-OFF OPERATION

The power take-off transfers engine power directly to mounted or drawn implements, or to belt driven equipment when a pulley is used. To operate the power take-off shaft, disengage the clutch and move the P.T.O. lever toward the rear of the tractor (see Figure 5). Once engaged, operation of the shaft is controlled by the tractor clutch.

The Model 961 Ford Tractor is equipped with a live PTO clutch. To stop the forward motion of the tractor when operating with PTO driven equipment, depress the clutch pedal about half way as shown in Figure 17. To stop both the forward motion of the tractor and the operation of the implement, depress the clutch pedal all the way, as shown.

When desired, the live PTO clutch may be disengaged and the pedal set for normal, single clutch operation by repositioning the pin in the front hole of the clevis as shown in Figure 17. For further information on clutch adjustments, see page 51 under MECHANICAL MAINTENANCE.

The American Society of Agricultural Engineers (A.S.A.E.) standard for power take-off speed is 540 revolutions per minute as shown on the Proof-Meter. Most power take-off implements are designed to operate at this speed.

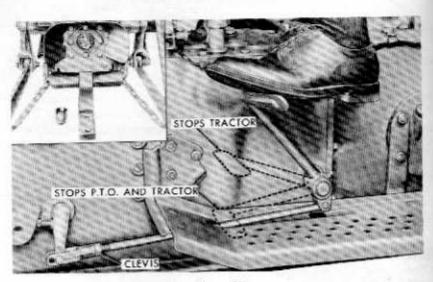


Figure 17
Operating the Live PTO Clutch

Power Take-Off Shoft: Your Ford Tractor is equipped with a standard P.T.O. shaft (1\%" diameter) in accordance with A.S.A.E. specifications. When attaching P.T.O. driven equipment (built to A.S.A.E. standards) to your tractor, it is not necessary to use special adaptors or extensions. However, a P.T.O. shield shown installed, see insert Figure 17 is available as extra equipment from your Ford Tractor and Implement Dealer. This shield should be used as a safety factor and serves as the supporting member for pull-type implement drive line shields in all operations involving P.T.O. driven implements.

BELT PULLEY

A nine-inch belt pulley is available as an accessory for use on your Row Crop Ford Tractor. The pulley can be installed in any one of three positions, (Do not install in the up position,) by removing the P.T.O. shaft safety cap, drawbar, drawbar hangar and check chains.

The A.S.A.E. standard belt speed for farm tractors is 3000 to 3200 feet per minute. With the standard nine-inch belt pulley on Models 741 and 941 Ford Tractor, the belt speed is 3199 feet per minute at 2000 engine R.P.M. as shown on the four speed Proof-Meter. On models equipped with the five speed transmission, the belt speed is 3013 feet per minute at 2200 engine R.P.M.

Belt driven implements which do not meet A.S.A.E. standards should be operated at the speed recommended by the manufacturer. To obtain this speed, select a driven pulley of the proper size from the table below.

*PROPER SIZE OF THE DRIVEN PULLEY

Engine R.P.M. 4 Speed	Engine R.P.M. 5 Speed		R.P.M. OF THE DRIVEN PULLEY								
Trans- mission	Trans- mission	Pulley R.P.M.	600	800	1000	1200	1400	1800	2200	2600	3000
1000	1168	679	10	71/2	6	5	41/2	31/2	3		
1100	1285	747	11	81/2	61/2	51/2	5	31/2	3		
1200	1402	815	12	9	71/2	6	5	4	31/2	3	
1300	1517	882	13	10	8	61/2	51/2	41/2	31/2	3	
1400	1634	950	14	101/2	81/2	7	6	41/2	4	31/2	3
1500	1751	1018	15	111/2	9	71/2	61/2	5	4	31/2	3
1600	1868	1086	161/2	12	10	8	7	51/2	41/2	4	31/2
1700	1985	1154	171/2	13	101/2	81/2	71/2	6	41/2	4	31/2
1800	2102	1222	181/2	131/2	11	9	8	6	5	4	31/2
1900	2219	1290	191/2	141/2	111/2	91/2	81/2	61/2	51/2	41/2	4
2000	_	1358	201/2	151/2	12	10	81/2	7	51/2	41/2	4

^{*}Figures are computed to the nearest 1/2 inch pulley size.

CAUTION: NEVER INSTALL OR REMOVE BELT WHILE PULLEY IS IN MOTION.

WHEEL TREAD ADJUSTMENTS

The design of the Ford Tractors permits quick wheel tread adjustments with a minimum amount of work. Both the front wheel tread adjustments (where they apply) and the rear wheel tread adjustments for the Ford Tractors are discussed in the following.

Front Wheels, Dual Axle: The tread on the dual front wheels may be increased from 8.3 inches to 16.3 inches simply by reversing the wheels on the spindles.

When planting or cultivating listed crops, this wider front wheel setting will assist the operator in keeping the front wheels on the listed ridges. The extra clearance will also prevent the accumulation of mud when operating the tractor in wet or sticky soil.

NOTE: During normal operation, the tractor will handle much better when the dual front wheels are set in the narrow position.

Front Wheel, Single Axle: There are no front wheel adjustments for the single wheel Ford Tractors.

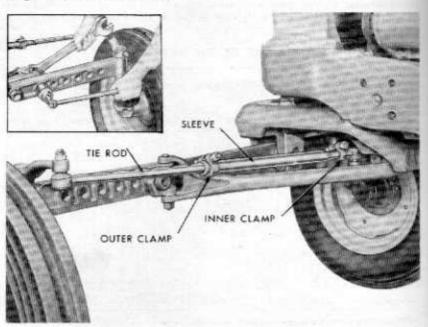


Figure 18 Adjustable Front Axle Adjustment

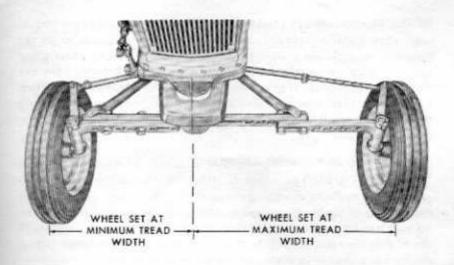


Figure 19
Front Wheel Tread Adjustments

Front Wheels, Adjustable Front Axle: The front wheels are adjustable from 52 to 76 inches in approximately 4 inch spacings. To change the tread width, raise the front end of the tractor with a jack placed at the forward end of the transmission housing. Work on one axle section at a time and remove the hex head bolts, flat washers and nuts which hold the outer axle sections to the inner axle section. See insert to Figure 18. Next remove the hex head bolts, lockwashers and nuts from the outer clamps shown in Figure 18 to release each tie rod from the locked position in its sleeve. Position the front wheels and tie rods in or out until the desired tread width is obtained. Figure 19 shows the correct minimum and maximum wheel tread adjustments.

For intermediate tread adjustments, make certain that there is a minimum of two bolt holes between each axle bolt location.

Replace the bolts, flat washers and nuts. Tighten each nut evenly.

Position the front wheels straight ahead and align the hole in each outer clamp (see Figure 18) with the groove in each tie rod which is nearest the outer clamp hole. Align and insert the clamp bolts to lock the tie rods in the sleeves. Secure both outer clamps with the lockwashers and nuts previously removed.

NOTE: Normally, toe-in adjustment of the front wheels is not necessary when making front axle adjustments as the tie rod grooves are spaced to provide the proper toe-in at each increment of wheel tread spacing. If the toe-in wheel adjustment must be re-established for any reason, the procedure is given on page 53 under Maintenance. When necessary, a wider tread width of 80 inches can be obtained by setting the axles for the 72 inch tread width setting and then reversing the front wheels.

Monually Adjusted Rear Wheels: The manually adjusted rear wheels (Model 741 Tractors) are adjustable from 56 to 84 inches. Tread width settings are made by changing the position of the steel discs and the rims to any of the positions shown in Figure 20. To change from the 56 inch tread width to the 84 inch width, it is only necessary to change the wheels from one side of the tractor to the other. Three other wheel changes are similar as shown at the top of Figure 20.

NOTE: Figure 20 shows only one tractor wheel.

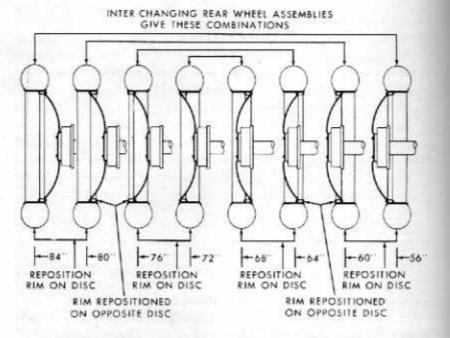


Figure 20 Rear Wheel Tread Adjustments

Power Adjusted Rear Wheels: The Power Adjusted Rear Wheels are standard on Series 901 Tractor models and are available as optional equipment on the Series 701 Tractor models. If your Ford Tractor is equipped with the Power Adjusted Rear Wheels, you will be able to change rear wheel tread width quickly and easily by means of tractor power.

The wheels may be spaced from 56 to 84 inches in 2 inch intervals. For tread widths of 56 to 76 inches, adjust the wheels, one at a time, as follows.

LOOSENING TIRE RIM FROM DISC: Loosen the nuts on the three locking clamps (see Figure 21), slide the clamps toward the center or retracted position, then retighten the nuts securely. Move the tractor until the wheel tread spacer clamp (Figure 21) is at the top of the wheel, then remove the spacer clamp from the disc and remove the large nut.

OPERATING WHEEL DISC IN THE RIM: When setting a wheel at the extreme inner or outer position, loosen the tire rim from the disc as described above, then simply move the wheel in or out to either end stop.

For settings between 56 and 76 inches, first move the wheel to the extreme outer position by engaging the clutch, with the tractor engine at idle speed. Use reverse gear for the left wheel and forward gear for the right wheel.

NOTE: Brake the opposite wheel slightly and allow the tractor to creep forward or rearward while the wheel is being adjusted.

Next, place the spacer clamp in the channel thread bar which has stops at each end. Position the clamp for desired tread width and secure as shown in Figure 21. These settings will permit a full revolution, or adjustment of 2 inches for the wheel.

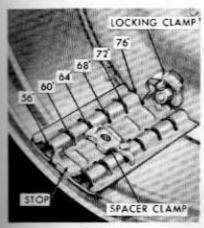


Figure 21
Adjusting Wheels (Normal Position)

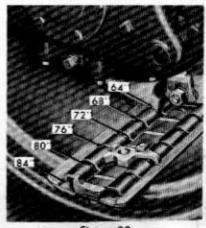


Figure 22
Adjusting Wheels (Reversed Position)

Rotate the disc back into the rim by engaging the clutch with the engine at idling speed. Use reverse gear for the right wheel and forward gear for the left wheel. Disengage the clutch as soon as the disc strikes the spacer clamp.

SECURING RIM IN POSITION: Move the tractor so that the spacer clamp can be replaced at the top of the wheel, then remove the clamp from the rim and reinstall it in the wheel. Tighten the large nut securely.

Loosen the nuts which hold the three locking clamps, move the clamps out to the lock position, then center the rim in the wheel by tightening the bottom locking clamp. Tighten the remaining two clamps securely. Tighten the nuts in sequence, make sure the clamps are positioned at approximately the same angle.

NOTE: Check the nuts for tightness after the tractor has been operated for a short time.

CHANGING WHEEL DISCS: To obtain a tread width setting of 80 inches, it is only necessary to power-adjust the wheels to a normal 60" setting (see Figure 21), then reverse the wheels on the tractor. The 84" setting is obtained in the same manner by setting the wheels at 56" and reversing them on the tractor. With the wheels in the reversed (dish in) position, it will be necessary to set the spacer clamp and locking clamps from the inside of each wheel when making adjustments. See Figure 22. Disengage the spacer and the locking clamps, move the wheel to its extreme "in" position and set the spacer clamp as desired. Then, use the tractor power to adjust the wheels to the desired width. After adjusting, replace the spacer clamp and locking clamps and tighten securely.

NOTE: THE ARROW ON THE SIDE WALL OF THE TIRE SHOULD ALWAYS POINT IN THE DIRECTION OF FORWARD ROTATION OF THE WHEEL.

WHEEL WEIGHT

To assure sufficient traction for maximum performance in heavy draft operations, weight should be added to the Ford Tractor.

Liquid Bollost: It is a common practice to add weight by filling the rear tractor tires with liquid. A solution of calcium chloride is recommended because of its lower freezing point, and greater weight per gallon than water.

The use of liquid ballast in the front tires will help counter-balance heavy rear mounted implements, and will further increase the traction and "pull-power" of your Ford Tractor in heavy draft operations. The recommended liquid capacities for tires are shown in the following table. This table is based on a 90% fill of the tires with 5 pounds of calcium chloride per gallon of water. The addition of this amount of calcium chloride will prevent freezing in most locations. A 90% fill of tires requires special equipment. See your Ford Tractor and Implement Dealer. For valve level filling of the tires listed, multiply the respective figures in the table by .8 to obtain the necessary information.

MAXIMUM CALCIUM CHLORIDE SOLUTION CAPACITIES

Size of Tire	Pounds of Calcium Chloride	Gallons of Water	Weight of Solution	
11-28 4-ply	164	32	440 lbs.	
12-28 4-ply	187	38	504 lbs.	
6:00-16 4-ply	30	6	80 lbs.	
5:50-16 4-ply	25	5	65 lbs.	
9:00-10 8-ply	30	6	80 lbs.	

Cost Iron: In heavy work such as plowing and discing, added weight is necessary in most cases to provide sufficient traction to utilize the maximum power of the engine. Special cast iron weights are available, at extra cost, in different sizes for use on the Ford Tractor. These individual weight sections can be easily attached to or detached from the wheels as the job requires. On lighter jobs, removal of the weights will increase the operating economy of your tractor. The following chart describes the different types of weights and their recommended usage.

The weights, as described below, may be used on both Series 701 and 901 Ford Tractors.

FRONT WEIGHT BOX	REAR WHEEL WEIGHTS			
Segments—(6) 48 lbs. each Box—130 lbs. Total—418 lbs.	Regular Duty Weights (per tractor set)			
*FRONT (per tractor set)	Two Mounting Discs—68 lbs. Segments—(24) 30 lbs. each Bolts—12 lbs. Total—800 lbs.			
Wheel Weights—Inside mounted Two per wheel—50 lbs. each Total—200 lbs.				

Weight added to the tires, together with the weight of the mounted implement and tractor, should not exceed the recommended weight to be carried by the tires. The following table lists the maximum recommended weight that can be carried without overloading the tires.

Tire	Size	Inflation Pressure	Maximum Lbs. Tire Load Per Wheel		
Rear:	SEC. 10. 10. 10.		1000		
11-28	4-ply	12	1890		
		14	2070		
12-28	4-ply	12	2220		
	POMICE STATE STATE OF THE STATE	14	2430		
Front:					
5.50-1	6 4-ply	20	655		
	6 4-ply	24	725		
	6 4-ply	28	795		
75.77.77.	6 4-ply	32	860		
		20	750		
		24	835		
		26	875		
	6 4-ply	77.7	1715		
9.00-1	0 8-ply	44	1713		

^{*}Adjustable Front Axle Models Only.

Watch Your Proof-Meter Decal

CH YOUR PROOF-METER EVERY Labricate All Filtings. Check Air Cleaner. Chock Engine Oil. TO MOURS Charge Engine Oil. Check Oil Level is Stearing Heaving, Hydraults System, Transmission and Rear Axis: Federal and Both Eight and Left Final Drives. EVERY 100 HOURS EVERY Change Oil Filter. Oil Sear Generator Searing. Labricate Distributor Com. 300 HOURS Equals Front Wheat Enorings, High Grade Short Histo Greece. Earneys and Cours Air Cluster Assembly, Change Oil in Transmission, Ecor Aris and Highwells System and Both Right and Jeff Final Differs. EVERY DR MORE OFTEN FOLLOW SEASONAL REQUIREMENTS BELOW WINTER (Settler 37"f) SUMMER Moore 22'9 Engine Oil 5, A. E. 10-10W S. A. E. 20 or 30 Hydraulic System (Selow 10°F) | Alouer 10° Wa 3 Park III - 1644-A | Wall 1 Port III - 4854-A -LANSING 10°FS Transmission, Reer Use hild E.P. Labricon S.A.E. Axis Pedestal and 80 last Water and Santer **Both Final Drives** BATTERY CHECK AND FILL WITH CLEAN WATER WEEKLY WARNING! THIS TRACTOR IS CONSTRUCTED UNDER ONE OR MORE OF THE SERVICE AIR CLEANER DAILY FOLLOWING LINITED STATES VERY DUSTY CONDITIONS TWICE DAILY LETTERS PATENT USE S. A. E. 30 OIL ABOVE 40'F 2,466,809 2,488,460 2,540,277 USE S. A. E. 10W OIL BELOW 40 F AIR INLET SCREEN MUST BE KEPT 2,507,000 2.631.514 2,431,515 CLEAN AND FREE FROM OIL Offer Patents Pending CLEAN BOTTOM FILTER AND CENTER TUBE MONTHLY MADE IN U.S.A. KEEP HOSE CONNECTIONS TIGHT Ford USE OF ADDITIONAL CUIANERS NOT RECOMMENDED REG. U. S. PAT. OFF. CALL YOUR FORD TRACTOR DEALER FOR SERVICE USE ONLY

To emphasize the importance of establishing regularly scheduled lubrication periods, a copy of the above decal is fixed to the inside of every tractor hood. The information on the decal has been condensed from the lubrication information on pages 34 through 39. Watch your Proof-Meter and use the decal as a reminder of the lubrication services required by your tractor.

GENUINE FORD TRACTOR PARTS . .

MAINTENANCE

How long and how well your Ford Tractor continues to give satisfactory performance depends largely upon proper maintenance. Keep the tractor in good working order by following the instructions in this section on lubrication, mechanical maintenance, minor adjustments and storage.

When major overhauls become necessary, see your Ford Tractor and Implement Dealer. He is interested in you and your tractor, and is properly equipped to meet your service needs.



A properly maintained tractor is a Safe tractor.

MAINTENANCE

PRE-DELIVERY INSPECTION

Before your tractor was delivered to you, the dealer performed a predelivery inspection which is the first step in the maintenance schedule of your tractor. Some of the more important items checked by your dealer are the cooling system, pedestal, engine, transmission, hydraulic system, power steering system, differential, final drive housings and the general physical condition of your new tractor. A detailed listing of the inspections performed is shown on your Service Policy under the Pre-Delivery and 50-Hour Inspection Reports.

50 HOUR INSPECTION

After you have operated your tractor for a period of fifty hours, see your Ford Tractor and Implement Dealer. At this time, he will perform the factory recommended 50-Hour Inspection, without charge, except for lubricants. Remember that the dealer is interested in your tractor's performance. See him periodically for continued good service.

LUBRICATION

Since your tractor will be subjected to a variety of operating conditions, it is extremely important that all moving parts be lubricated at the proper time. Use clean containers and recommended grades of lubricant to avoid causing serious damage to your tractor.

The following guide describes, in hourly intervals, all of the lubrication services required by your tractor. These time intervals are based on average working conditions. When operating under extremely hot or dusty conditions, lubricate the tractor more frequently.

The location of the lubrication points described in the lubrication guide are shown in Figures 29 and 30 on pages 38 and 39.

SERVICE DAILY OR EVERY TEN HOURS

Crankcase Ventilating System: Remove the element in the Rocker Arm Cover Breather and clean with a suitable solvent. Coat the element with light engine oil before replacing.

Oil Filler Breather Cap: Remove the element, clean the entire assembly with solvent and coat the element with light engine oil.

Air Cleaner: Remove the oil cup and clean with a suitable solvent. Refill the cup with 1.3 pints of engine oil for Series 901 tractors, 0.8 pints for Series 701 tractors. (Under extremely dusty conditions, service more often.)

Pressure Type Fiftings: Clean the fittings on the Lift Rod Leveling Box and Fork, Clutch Pedal and Steering Drag Link. Apply pressure gun grease and wipe the fittings clean. See Figures 29 and 30.

Distributor: Place a few drops of seasonal engine oil in the oil cup. Do not over lubricate. (See Figure 24.)



Figure 23
Checking the Air Cleaner Oil Level

Crankcase Dip Stick: Remove the dip stick from the right side of the engine crankcase. Always wipe the dip stick with a clean cloth, replace it and then remove it again to determine the oil level. Maintain the level at the full mark with a good grade of heavy duty or premium engine oil. (See SERVICE EVERY 100 HOURS.)

Hydraulic System Dip Stick: Use the side of the dip stick that is marked "HYDRAULIC SYSTEM, ALL CYLINDERS EXTENDED." Check the level of the hydraulic oil and maintain at the full mark with the proper lubricant as recommended under SERVICE EVERY 600 HOURS. Make certain that all hydraulic cylinders are fully extended as noted on the dip stick, and that the hydraulic lift links are in the raised position.



Figure 24 Crankcase Oil Level Dip Stick

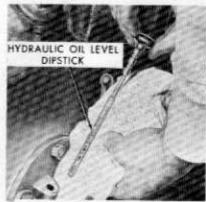


Figure 25 Hydraulic Oil Level Dip Stick

SERVICE EVERY 100 HOURS

Engine Crankcase: Change the engine oil in your new tractor at the 50 hour inspection and every 100 hours of operation thereafter. Drain the oil after the engine has reached normal operating temperature. Refill the crankcase with four quarts of good heavy duty or premium engine oil and add one extra quart of oil if the filter cartridge is replaced.

*SAE 20 —Temperatures consistently above 90° F.

**SAE 10 —Temperatures between 90° F, and 32° F.

SAE 10-10W—Temperatures between 32° F, and —10° F.

SAE 5W—Temperatures below —10° F.

Pedestal: To check the oil level, remove the tractor radiator grille and the pedestal filler opening plug. Wipe the plug dry and reinsert it into the opening, tightening to finger tightness. Remove the plug and check the oil level as indicated by the oil level mark, see Figure 26. Add oil if necessary. (SEE SERVICE EVERY 600 HOURS.)

Power Steering Pump Reservoir: Check the oil level every 100 HOURS OF OPERATION. Remove the pump reservoir top and check the oil level with the dipstick attached (Figure 27). For an accurate reading, the tractor wheels should be turned to the left against the stops.

If the oil level is low, replenish the pump reservoir with Automatic Transmission Fluid Type "A."



Figure 26 Checking Pedestal Oil Level

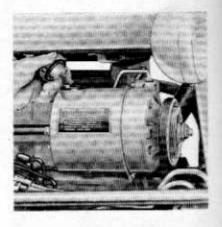


Figure 27 Power Steering Pump

^{*}SAE 30 recommended after the first year's operation.

^{**}SAE 20 recommended after the first year's operation.

CAUTION: Use only AUTOMATIC TRANSMISSION FLUID— TYPE "A" in the Power Steering System. Always use clean fluid for this purpose. Dirty fluid may cause extensive damage to the system.

Final Drive Housings: Check the oil level at the fill plug (10), Figure 29, and add oil if necessary. (See SERVICE EVERY 600 HOURS.)

Differential: Remove the rear axle inspection plug (11), Figure 29, and check the level of the oil. If necessary, add oil. (See SERVICE EVERY 600 HOURS.)

Transmission: Remove the transmission oil level inspection plug (22), Figure 29, and add oil if required. (See SERVICE EVERY 600 HOURS.)

Steering Housing: Check the oil level at the steering gear case plug (20), Figure 29, and add lubricant as required. Use extreme pressure gear lubricant SAE 90 in the summer and SAE 80 in the winter.

SERVICE EVERY 200 HOURS

Oil Filter: Replace the filter cartridge with every other engine oil change and add one quart of engine oil to fill the new cartridge.

Distributor: Remove the cap and dust shield. Wipe the cam, the outside of the distributor, the wires and the coil with a clean cloth. Apply a portion of roller bearing grease about the size of a match head on the distributor cam. Use Roller Bearing Grease only.



Figure 28 Replacing the Oil Filter Cartridge

SERVICE EVERY 600 HOURS

Front Wheel Bearings: Clean the front wheel bearings thoroughly with a solvent and repack with (M-4664) short fibre grease. Lubricate the spindle shaft before replacing the bearings.

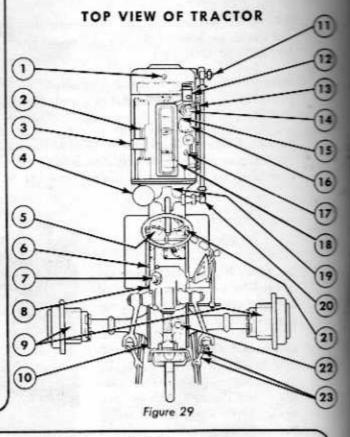
LUBRICATION

EVERY 10 HOURS

- 4 AIR CLEANER-Clean and oil.
- 8 HYDRAULIC SYSTEM DIP STICK-Check nil level.
- 14 OIL FILTER BREATH-ER CAP-Clean and oil.
- 15 DISTRIBUTOR-Few Drops of engine oil in cup.
- 17 CRANKCASE DIP STICK-Check oil level.
- 18 CRANKCASE VENTI-LATING SYSTEM-Clean and oil.

LUBRICATE PRESSURE FITTINGS BELOW

- 6 CLUTCH PEDAL
- 11 DRAG LINK (FRONT)
- 13 CONTROL VALVE AND CYLINDER ASSEMBLY
- 20 DRAG LINK (REAR)
- 23 LEVELING BOX
- 24 TIE RODS
- 25 SPINDLE PINS
- 26 TIE RODS



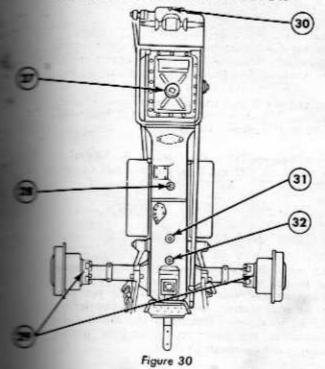
EVERY 100 HOURS

- PUMP RESERVOIR-Check oil level and replenesh with Automatic Transmission Fluid-Type A.
- ENGINE CRANKCASE—(train and refill: Winter (Below 32° F.) SAE 10W or 20W; Summer (Above 32° F.) SAE 20; (above 27 and
- 14 90" |) SAE 30
- 10 DIFFERENTIAL-Check oil at level plug and 22
 - on side of housing and add oil if necessary.

- 9 FINAL DRIVE-Check oil level.
- TRANSMISSION-Check oil at level 21 plug on side of housing and add oil if and necessary.
- HYDRAULIC SYSTEM-Check oil level.
- STEERING HOUSING-Check oil level.
- PEDESTAL-Check oil level.

CHART 24 25

UNDERSIDE VIEW OF TRACTOR



EVERY 600 HOURS

EVERY 600 HOURS

FRONT WHEEL BEAR-INGS—(Not shown) Repack with (M-4664) short fibre grease.

- 28 TRANSMISSION—Drain and and rofill. (Use mild E. P. 5 Lubricant SAE 80, both summer and winter.)
- 30 PEDESTAL—Drain and and refill (Use E. P. Lubricant 1 SAE 80, both summer and winter.)

31 HYDRAULIC SYSTEM and — Drain and refill. (Below 7 10° F.—Mix 6 Qts. M-4864-A with 2 Ots. M-

7 10° F.—Mix 6 Qts. M-4864-A with 2 Qts. M-4864-D) (Above 10° F.— 8 Qts. M-4864-A.)

32 DIFFERENTIAL—Drain and and refill (Use mild E. P. 22 Lubricant SAE 80, both summer and winter.)

EVERY 200 HOURS

- 2 OIL FILTER—Replace cartridge every other segine oil change and add one extra quart of oil to fill crankcase.
- GENERATOR—Oil rear bearing with light oil. Do not over lubricate.
- 16 DISTRIBUTOR—Light film of distributor lubricant on cam.

Transmission: Change the transmission oil at the 50 hour inspection and every 600 hours of operation thereafter. In winter operate the tractor to thin the oil before draining. Fill the 4 speed transmission with 6 quarts of mild extreme pressure lubricant and the 5 speed transmission with 8 quarts. Use mild E. P. lubricant SAE 80, both summer and winter.

Hydraulic System: After the first 50 hours and after every 600 hours operation, change the oil in the hydraulic system. In winter, operate the system to thin the oil before draining. Clean the fill port carefully before removing to prevent dirt from entering the system. Fill the system with 8 quarts of M-4864-A hydraulic oil at temperatures above 10° F. At temperatures below 10° F., use 6 quarts of M-4864-A and 2 quarts of M-4864-D hydraulic oil.

Differential: Replace the oil in the rear axle after the first 50 hours of operation and following every 600 hours thereafter. In winter, operate the tractor to thin the oil before draining. Refill with 8 quarts of oil. Use mild extreme pressure lubricant SAE 80, both summer and winter.

Final Drive Housings: Change the oil after the first 50 hours and after every 600 hours of operation. Fill each housing with 1½ quarts of mild E. P. lubricant SAE 80, both summer and winter.

Pedestol: Change oil every 600 hours. Fill to the mark on the *dipstick (2 quarts) with mild E. P. lubricant SAE 80, both summer and winter.

MECHANICAL MAINTENANCE

In addition to lubrication services, regular mechanical maintenance is necessary to keep your tractor performing at maximum efficiency. The information in this section has been prepared to help you perform certain routine jobs on your tractor. Avoid breakdowns during the busy seasons by checking these items frequently and making the necessary repairs or adjustments. For major repair work or service parts, see your Ford Tractor and Implement Dealer.

COOLING SYSTEM

Radiator Pressure Cap: The cooling system on your Ford Tractor operates under pressure which is controlled by the radiator cap. Keep the cap installed tightly at all times. Caution should be exercised when removing the cap to prevent possible injury from escaping steam. Always remove the cap when draining the radiator. If lost, a new cap may be purchased from your dealer.

*See "Pedestal" under, Service Every 100 Hours, page 36.

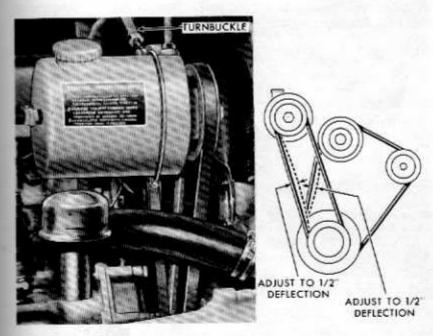


Figure 31
Adjusting Fan, Generator and Power Steering Pump Belts

Power Steering Pump Drive Belt: The power steering pump is driven by a belt from the crankshaft pulley. Check this belt periodically for proper tightness. Adjust the belt tension by loosening or tightening the turnbuckle (see Figure 31) until a ½ inch belt deflection is obtained with normal thumb pressure at belt center as shown in Figure 31.

Thermostot: The thermostat automatically regulates the temperature within the cooling system by controlling the flow of coolant through the radiator. It should start to open at 157 to 162 degrees and be fully open at 177 to 182 degrees. If the thermostat does not function properly, it should be replaced.

Water Pump and Fan Belt: The water pump is driven by the fan belt. Check the belt periodically for proper tightness. Adjust the tension by loosening the two generator pivot bolts and the belt tension adjusting bolt. Move the generator in or away from the engine until a ½ inch belt deflection is obtained with normal thumb pressure as shown in Figure 31, and tighten the bolts.

Cleaning and Protection: The cooling system should be drained, flushed and refilled with clean, soft water every spring. Remove the thermostat prior to the flushing operation. Drain the system by removing the plug at the bottom of the radiator, the drain cock on the left side of the cylinder block and the radiator cap. Add a good grade of rust inhibitor when refilling the system with water. Open the radiator grille and clean the radiator fins with a wire brush. In the fall, the cooling system should be drained, flushed and refilled with a good grade of permanent type anti-freeze. Alcohol is not recommended as protection against freezing because it starts to boil at 170° and during heavy duty operation, the tractor may operate at temperatures above this figure. Anti-freeze may be purchased from your local dealer.

FUEL SYSTEM

When properly cleaned and adjusted, the air and fuel system on the Ford Tractor will help provide maximum power and smooth engine performance with a minimum amount of fuel consumption.

Fuel Tank: Use only clean fuel which has been stored in a dry, cool place. At the end of each day of operation, refill the fuel tank to remove moisture laden air and reduce condensation. This is extremely important during cold weather.

Sediment Bulb: To clean the carburetor gas line sediment bulb, turn the fuel shut-off valve clockwise to the "OFF" position. Loosen the sediment bulb retaining nut, and move the retaining clamp sideways until the bowl can be removed. Remove and clean the disc screen and wipe the bowl with a clean cloth. Then replace the assembly and tighten securely. Always clean the fuel filtering screen in the sediment bulb when the bulb is cleaned. If the sediment bulb quickly accumulates an excessive amount of dirt after cleaning, the fuel tank should be drained and cleaned thoroughly.

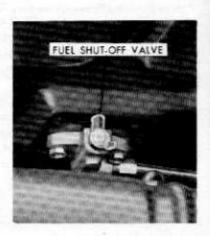


Figure 32
Fuel Shut-Off Valve Assembly

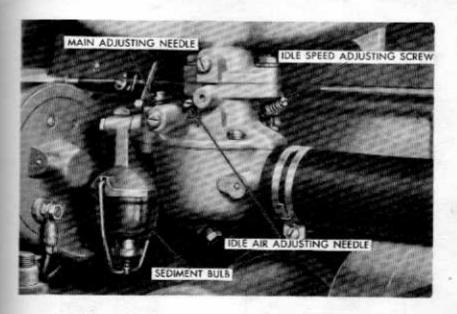


Figure 33
Adjusting the Carburetor

Corburetor: Three adjustments are provided on the carburetor. When adjusting the carburetor, operate the engine at normal temperature as shown on the gauge.

*Idle Speed Adjustment Stop Screw: With the hand throttle in the closed position, turn the stop screw on the engine side of the carburetor until the engine idle speed is 450 to 475 R.P.M. as indicated on the Proof-Meter. On an engine that is not yet broken in, it may be necessary to set the idle speed higher to keep the engine from stalling at idle speeds.

Idle Air Adjustment Needle: For the initial setting, before the engine is started, turn the idle adjustment needle clockwise until it just seats, then back it off approximately one turn. Start the engine and turn the idle adjustment needle "IN" (clockwise) until the engine begins to "roll" from too rich a mixture, then back the needle off until the engine runs smoothly. It may be necessary to readjust the idle speed.

Main Adjusting Needle: The initial setting for the main adjusting needle is 1½ turn open (counter-clockwise) on Series 701 tractors and 1½ turns on Series 901 tractors. The final adjustment should be made in the field. With the engine running at governed speed under full load, turn the adjustment needle "IN" (clockwise) until the engine power begins to drop off, then turn the screw "OUT" until the power picks up and the engine runs smoothly.

^{*}Maximum speed adjustment is fully outlined on page 50.

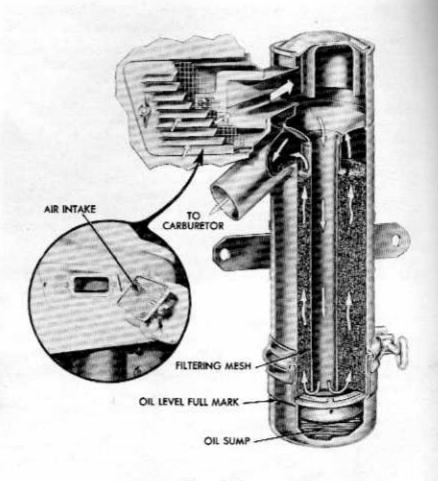


Figure 34
Sectional View of Carburetor Air Cleaner

Carburetor Air Cleaner: Regular service of the oil bath type air cleaner is extremely important in prolonging the engine life of your tractor. See the section on LUBRICATION, under Service Daily or Every Ten Hours, for proper servicing of the air cleaner. Figure 34 shows the passage of air through the intake screen, oil bath, filtering mesh and to the carburetor.

The installation of any accessory designed to further the filtering process serves no useful purpose and may result in increased fuel consumption and poor engine performance.

ELECTRICAL SYSTEM

Generator: The maximum charging rate of the generator is 20 amperes at 1650 engine R.P.M. and above. The generator is driven by the fan belt. For adjustment, refer to "Water Pump and Fan Belt," under COOLING SYSTEM, page 41.

If the generator will not charge, check the condition of the wires in the generating circuit (Figure 35). Make sure all connections are clean and tight.

Bottery: The level of electrolyte in the battery should be checked at least twice monthly and distilled water added if necessary. Battery terminals should be kept tight and free of corrosion. Two tablespoons of baking soda mixed with a pint of water make a good solution for cleaning corroded terminals and the battery case. After cleaning, the battery should be washed with clean water. An application of petroleum jelly on the terminals will counteract corrosion.

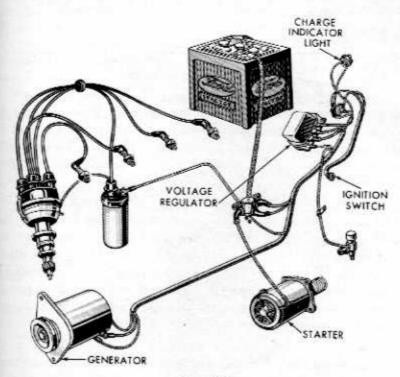


Figure 35
Generating System

Keep the battery fully charged at all times. The specific gravity of the electrolyte indicates the amount of battery charge. The amount of charge, with respect to specific gravity of the electrolyte, is shown in the following chart.

State of Charge	Specific Gravity Temperate Climates	Specific Gravity Tropical Climates
Fully Charged	1.280	1.225
75%	1.230	1.180
50%	1.180	1.135
25%	1.130	1.090
Discharged	1.080	1.040

Distributor Points and Spark Plugs: If the distributor points and spark plugs are not kept in proper adjustment and if the ignition system is not correctly timed, the operation of your tractor will be seriously affected. The results of improper ignition maintenance are sluggish engine performance and excessive fuel consumption.

Under normal operating conditions, the spark plugs should be removed, cleaned and inspected after 150 hours and replaced every 300 hours. Spark plug cleaning should be performed with a sand blast type cleaner. Spark plugs which are cracked or have excessively burned electrodes should be replaced. The proper spark plug gap is 0.025 to 0.029 inch. To set the gap, use a standard round feeler gauge as shown in Figure 36.

Proper maintenance of distributor points is of the utmost importance. Cleaning of the points, replacing when excessively worn, and the proper spacing are essential for peak efficiency.

To adjust the distributor points, remove the distributor cap. Crank the engine until the breaker arm rubbing block (see Figure 37) is resting on a high point of the distributor cam. Loosen the point assembly lock screws. Insert an adjusting tool or screwdriver in the adjustment slot and move the point assembly until the proper gap is established. The point spacing is 0.024 to 0.026 inch. Tighten the point assembly lock screws after making the adjustment and recheck the adjustment on at least one additional lobe.



Figure 36 Checking Spark Plug Gap

To replace the points, remove the distributor cap. Remove the point assembly lock screws (Figure 37). Disconnect the condenser and primary lead, then lift the point assembly off the breaker plate. When installing new points, make certain the ground wire is properly installed under the lock screw.

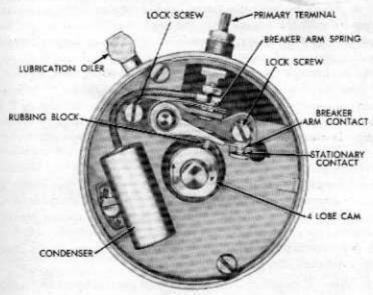


Figure 37 Distributor Assembly

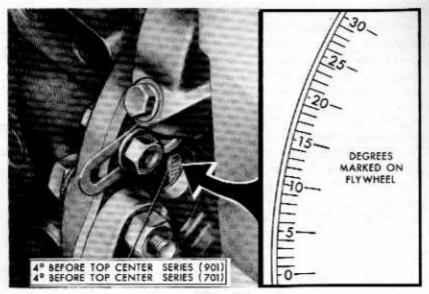


Figure 38
Basic Ignition Timing

Ignition Timing: When new distributor points are installed, the ignition system should be properly timed with a timing light. Connect the timing light to the engine with the high tension lead on the No. 1 spark plug and the other two leads on the proper battery terminals. Start the engine and run it at idle speed. Direct the timing light so that it flashes through the opening in the bell housing (see Figure 38), and note the timing marks. Ignition timing should be 4° before top dead center on both Series 701 and 901 tractors at 450 engine R.P.M. Loosen the clamp screws, rotate the distributor slightly until this reading is obtained, then tighten the distributor body.

ENGINE

Valve Clearance: One of the most important factors governing good engine performance is that of correct valve tappet clearances. On a new tractor, correct clearances are set before the tractor leaves the factory and are checked again by your dealer at the pre-delivery inspection. It is recommended, however, that the valve clearance be checked every 250 hours of tractor operation.

To set valve clearance, run the engine until normal operating temperature is reached. Stop the engine and remove the rocker shaft cover. Tappets can only be adjusted properly when the valve is fully closed.

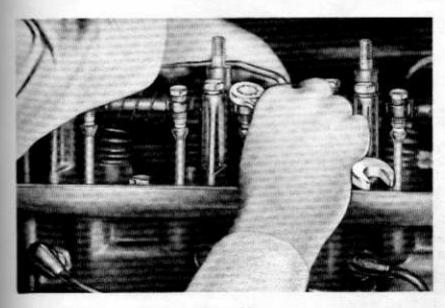


Figure 39
Valve Toppet Adjustment

It will be necessary to crank the engine with the starter to allow valves to close when making adjustments.

To adjust the tappets, turn the valve rocker arm adjusting screw in the desired direction as shown in Figure 39. The correct valve tappet clearance is .014 to .016 inch with the engine hot.

Valve Grinding: One of the factors involving good engine performance is absolute sealing of the combustion chamber by the valves and rings against compression losses. Valves and valve seats of modern engines are so hard that it is impossible to obtain a satisfactory valve reconditioning job by hand grinding. A good valve job is so important to engine performance that we recommend having your dealer perform this work whenever it becomes necessary.

Engine Tune-up: Engine tune-up procedure is intended to restore the engine to normal operating condition, providing excessive wear has not occurred. It is one of the most important maintenance services in that it determines whether or not the engine will perform with maximum economy and efficiency. Your dealer is best equipped to perform this service and advise as to the repairs or services necessary to restore the original performance of your tractor.

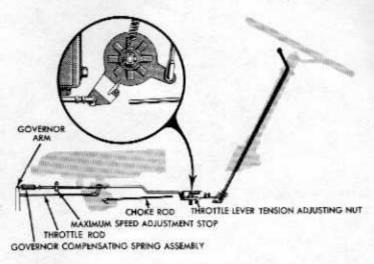


Figure 40
Governor and Control Linkage

Governor: Constant engine speed for any given throttle setting is controlled by the action of the adjustable centrifugal governor, located on the forward end of the crankshaft. As the engine speed is increased, the action of the governor moves the governor arm (see Figure 40) toward the closed carburetor throttle position until a balance between the spring tension and governor action is obtained. Maximum engine speed is controlled by the adjustable stop on the throttle rod, as shown.

Before attempting to set the engine governed speed, make certain the governor lever and carburetor throttle arm are both in the full open position. This can be checked by moving the hand throttle to the wide open position, removing the throttle rod at the carburetor, and holding the carburetor throttle arm in the wide open position. If the throttle rod connection will not slip over the ball on the carburetor throttle arm without moving the arm, the linkage must be adjusted. To do this, loosen the clevis lock nut and change the length of the rod as required.

Maximum governed engine speed must be set under no load conditions. After the tractor engine has been warmed up, set the idle speed at 450 to 475 revolutions per minute, then open the hand throttle to the wide open position. If the Proof-Meter registers 2200 R.P.M. on Models 741 and 941 tractors and 2400 R.P.M. on Models 951 and 961 tractors, the governor is properly set. If adjustment is necessary, reposition the maximum speed adjustment stop as required. Throttle Lever Position: After the tractor has been in service, some normal linkage wear occurs. The hand throttle lever may creep toward closed position when driving the tractor over rough ground. The fixed position of this lever is controlled by the tension applied by the spider spring washer on the bell crank, see insert Figure 40. This tension can be increased by removing the cotter pin in the castellated nut and turning the nut clockwise until the desired tension is obtained. After adjustment, reinstall the cotter pin.

Clutch: To obtain proper operation and to insure a longer clutch life, it is necessary to maintain the recommended clutch pedal free travel. Free travel is the distance the clutch pedal can be pushed down before resistance is met.

To adjust pedal free travel, loosen the lock nut and turn the pedal free travel adjusting screw in to increase free travel or out to decrease free travel. For tractors with five speed transmissions set the pedal free travel at 1½" to 1¾", for four speed transmissions, set at ¾". Make sure the lock nut is securely tightened at all times.

To insure proper clutch disengagement, it is necessary that the pedal be positioned to the proper height above the running board. Adjustment is made by lengthening the clutch release rod to decrease height and shortening the rod to increase height. For all tractors except the Model 961, adjust the height to 7". On the Model 961 adjust to 93%".

In double clutch tractors the pedal can be repositioned to the 7" height for transmission clutch operation only, by relocating the clevis pin in the front clevis hole. See Figure 41.

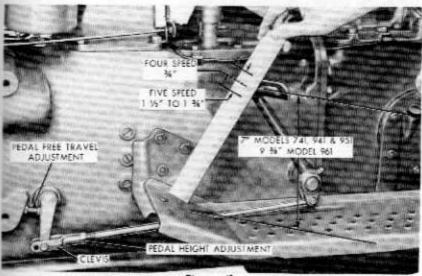


Figure 41 Clutch Pedal Free Travel Adjustment

STEERING, WHEELS, BRAKES AND TIRES

Power Steering System: The power steering system on your Ford Tractor (see Figure 42) requires very little mechanical maintenance. Check the three cylinder support bolts and the piston rod lock nut periodically and tighten if necessary. Check both the pump return and pressure hose connections for oil leakage. Maintain tight hose connections. When it is necessary to remove or disconnect the pump return and pressure hoses for tractor engine maintenance purposes or hose replacement, make certain that the hoses are reinstalled correctly. The pump return hose connects to the pump reservoir at one end and to the REAR PORT of the cylinder and valve assembly. The pressure hose connects to the pressure port in the pump at the top and to the FRONT PORT of the cylinder and control valve assembly. The pump, cylinder and valve assembly and drag link require no mechanical maintenance. Power steering adjustments and replacements on your Ford Tractor should be made only by your local Ford Tractor and Implement Dealer.

Pedestal: Check the mounting bolts in the tractor side rails and pedestal from time to time. Tighten the nuts on the bolts, if necessary.

Any adjustment of the spindle shaft and sector gear located in the tractor pedestal should be made only by your local Ford Tractor and Implement Dealer.

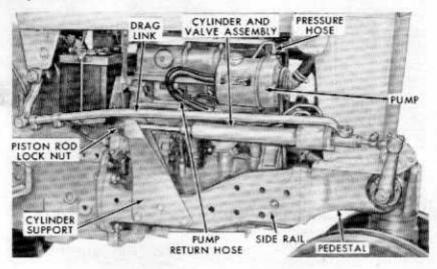


Figure 42 Power Steering System

Front Wheel Toe-in Adjustable Front Axle Models: Front wheel toe-in adjustments on your Ford Tractor were made at the factory. If the toe-in adjustment must be re-established for any reason, remove the Outer Clamp bolts which lock the tie rods in the sleeves and loosen the Inner Clamp bolts. (see Figure 18, Page 26) Mark or otherwise note the slot in each tie rod that aligns with the outer clamp hole. Measure between the outside of the tire ribs at hub height, on both the front and rear of the wheels. Adjust the drag links by turning the sleeves until the correct toe-in of ½ to ¼ inch is obtained. Tighten the inner clamps and replace the bolts in the outer clamps making certain that the outer clamp holes align with the marked grooves in the tie rods. Secure the outer clamps.

Front Wheel Bearings: To adjust the front wheel bearings, raise the front of the tractor until the wheels rotate freely. Remove the hub cap and the cotter pin which holds the castellated nut and turn the nut until a slight drag is felt. Then back off the nut until the nearest slot in the nut is aligned with the hole in the spindle. Reinstall the cotter pin and hub cap. Pack the bearings with short fibre grease every 600 hours of operation as directed under LUBRICATION, page 37.

Broke Adjustment: Jack the tractor up until both rear wheels are free. Remove the adjusting slot cover from the back plate and, with the brake pedals released, turn the adjusting screw clockwise (see Figure 44) until the brake drags. (Figure 43 illustrates the adjusting mechanism.)

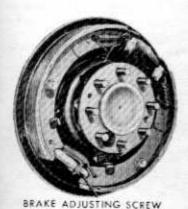


Figure 43 Brake Assembly with Drum Removed

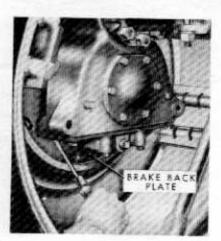


Figure 44 Adjusting the Brakes

Back off the adjusting screw until the brake drags very slightly when the wheel is turned. Adjust both brakes in this manner, then adjust the left brake tie rod with the clevis until both brake pedals are in line when both brakes are engaged.

During the first hour of operation after the brakes have been adjusted, check the drums for overheating. If necessary, readjust as previously outlined.

Tire Removal: Remove the wheel from the hub and deflate the inner tube completely. Press the valve through the valve hole and loosen both tire beads from the wheel rim, using a tire iron and heavy mallet. With the wheel lying flat, stand on the tire with your feet about 15 inches apart opposite the valve, then force the bead seat into the drop center of the rim.

Insert two tire irons, about 8 inches apart, between the tire bead and the wheel rim near the valve, then pry the head over the wheel rim. Leaving one tire iron in position, follow around the wheel rim with the other tire iron to remove the remainder of the bead. Remove the inner tube.

Turn the wheel over and block up the disc until the rim is off the floor, as shown in Figure 46. Pry the tire off the rim, starting with a small section and following around the wheel.

Tire Installation: Place the wheel and rim in a flat position. Inflate the inner tube until it is barely rounded out, then install the tube in the tire.

Coat the inside and outside of the tire beads with a soft soap and water solution to protect the bead, then pry the bead over the edge of the rim. See recommended tire inflation pressure chart, page 31.

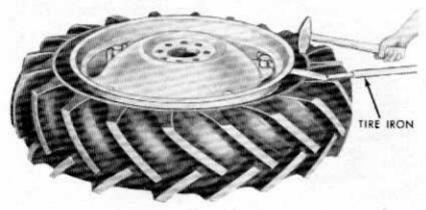


Figure 45 Loosening Tire Bead from Edge of Rim

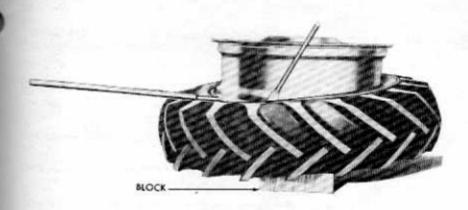


Figure 46
Prying Rim Out of Tire

Tire Removal—Single Front Wheel: Jack the tractor up sufficiently to free the front wheel. Remove the dust cap, cotter pin, castellated nut and flat washer from the wheel spindle. Remove the wheel and deflate the inner tube completely. Remove the five flange bolts and insert two of these bolts in the opposed thread holes of the flange as shown in. "A" Figure 47. Turn the bolts in to break the flange from the hub Use tire irons to remove the flange from the tire (See "B" Figure 47). Lift the tire off of the hub and remove the tube liner and tube (See "C" Figure 47). Remove the two flange bolts from the flange.

Tire Installation: Inflate the tube partially and install the tube and tube liner in the tire. Place the hub in the tire and guide the tube valve stem through the valve stem hole provided. Install the flange in the tire and rotate the flange until the bolt holes align in both hub and flange. Insert the five flange bolts and tighten each bolt evenly. Recommended tire inflation pressure is 44 pounds.

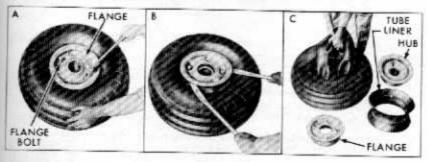


Figure 47
Single Front Wheel Tire Removal

Install the wheel on the spindle and replace the flat washer and castellated nut. Adjust the nut in accordance with procedures outlined under "Front Wheel Bearings" Page 53.

TRACTOR STORAGE

Tractors which are used seasonally should be protected while in storage. The following operations are suggested:

- Wash and clean the tractor thoroughly. Use Sprayon Touch-Up Enamel where necessary to avoid rust.
- Block or tie down the clutch pedal so that the clutch faces are disengaged.
- Lubricate the tractor, drain and refull transmission, pedestal, final drive housings, differential, hydraulic system, and engine, as directed under LUBRICATION. Use engine preservative oil in the crankcase to prevent internal corrosion.
- Drain the fuel tank and sediment bowl, then run the engine until the gasoline supply in the carburetor is exhausted.
- Remove the spark plugs and pour three ounces of engine preservative oil into each cylinder. Turn the engine several revolutions with the starter, then replace the spark plugs. This will coat the combustion chamber with an oil film.
- Remove the battery and be sure it is fully charged before placing it in storage in a warm place. The battery should be charged periodically during storage.
- Place blocking under the tractor axles to remove the weight from the tires.
- Open drain cocks at bottom of radiator and on left side of engine block to drain the cooling system.
- Check the tractor for worn or damaged parts. Replace with genuine Ford Tractor parts.

Tractors which have been placed in storage should be completely serviced in the following manner before putting into use.

- Inflate the tires to recommend pressure; fill cooling system (use corrosion inhibitor in warm weather, anti-freeze in winter), fill gasoline tank with fuel; check oil level in crankcase, rear end, transmission, and air cleaner, and install fully charged battery.
- Start the engine and let it idle a few minutes. Be sure the engine is receiving lubrication and that each control is functioning correctly.
- Drive the tractor without a load to be sure it is operating satisfactorily.

ACCESSORIES

A wide variety of accessories, attachments and special items are available for use on your new Row Crop Ford Tractor.

These are designed to make your farm work easier by providing you with maximum convenience and operating comfort. In many cases, they will improve the performance of your Ford Tractor and Equipment. All of the accessories, attachments and special items listed in this section are available at extra cost from your Ford Tractor and Implement Dealer. For a more detailed description of these items, see your "Ford Tractor Accessories" Booklet included in your owner's envelope.



Be safe, be seen, use lights at night.

ROW CROP FORD TRACTOR ACCESSORIES AND SPECIAL ITEMS

SERIES 701 AND 901

TRACTOR ACCESSORIES

Dry Charge Battery

Grease Gun and Bracket

Implement Lamp Kit

Implement Warning Lamp Kit

Power Adjusted Rear Wheels (Standard on Series 901 Tractors)

PTO Belt Pulley Assembly

PTO Shield

Remote Control Attachments

Stabilizer Bars

Tire Pump and Gauge

Tractor Half Cabs

Vertical Exhaust Kits

Weight Box-Pedestal Mounted (Not used Adjustable Front Axle Models)

Wheel Weights-Rear-Regular Duty

Wheel Weights-Front (Adjustable Front Axle Models Only)

SPECIAL ITEMS

A complete line of chemicals, hydraulic oil and oil additives plus paints are available. For further details, see your Ford Tractor and Implement Dealer.

SPECIFICATIONS

The specifications on the following pages are provided for your information and reference. For further information see your local Ford Tractor and Implement Dealer.

The Fard Malor Compuny reserves the right to make changes in specifications or to add improvements at any time without notice or obligation.



Be Safe—be careful at all times.

SPECIFICATIONS

SERIES 701 AND 901

Selfence.	
Wheelbase:	
Single and Dual Front Wheel Models85.3	inches
Adjustable Front Axle Models94.0	inches
Over-all Length:	inches
Single and Dual Front Wheel Models	inches
Adjustable Front Axle Models	inches
Over-all Width @ 52 inch Tread Setting71.7	inches
Front Tread Width:	Inches.
Dual Front Wheel Models	inches
Adjustable Front Axle Models51.5 to 81	inches
Rear Tread Width56 to 84	inches
Crop Clearance:	
Single and Dual Front Wheel ModelsSeries 701-27.49	inches
Series 901-28.44	
Adjustable Front Axle Models21.0	inches
Turning Circle Diameter with brakes set:	2 2
Single Front Wheel Models15 feet, 2	inches
Dual Front Wheel Models	inches
Adjustable Front Axle Models23 feet, 6	inches
Shipping Weight:	
Single Front Wheel ModelsSeries 701-319	04 lbs.
Dual Front Wheel Models Series 701-3100 lbs. (ap	prox.)
Adjustable Front Axle ModelsSeries 701-33	43 lbs.
Single Front Wheel Models Series 901-3400 lbs. (ap	prox.)
Dual Front Wheel Models Series 901-3344 lbs. (ap	prox.)
Adjustable Front Axle Models Series 901-3550 lbs. (ap	prox.)
Tire Size-Front (Standard):	20 2
Single Front Wheel	
ModelsSeries 701 and 901-9:00 x 10-	-8 ply
Dual Wheel and Adjustable	
Front Axle Models	-4 ply
Dual Wheels	-4 ply
Adjustable Front AxleSeries 901-5:50 x 16	-4 ply
Tire Size-Rear (Standard)Series 701-11:00 x 28	-4 ply
Series 901-12:00 x 28-	-4 ply
CAPACITIES	
Fuel Tank:	
Series 901	gals.)
Series 701	gals.)
Cooling System	al ots.)
Crankcase (including filter) 5 U.S. quarts (4.16 Imperi	al cits.)
Transmission Speed - 6 U.S. quarts (5.00 Imperi	al ats.)
5 Speed-8 U.S. quarts (6.66 Imperi	al ors
Hydraulic Reservoir	al grs.)
Differential8 U.S. quarts (6.66 Imperi	al ors
Final Drive (each housing)1½ U.S. quarts (1.2 Imperio	al ors.)
rinal Drive (each nousing)172 U.S. quarts (1.2 imperi	er dear)

CLUTCH	
Type	741-Single plate, 10 inch
Mode	941-Single plate, 10 inch
Model	951-Single plate, 10 inch
Mode	1961-Double plate, 9 inch
Pedal Free TravelS	rejus 761 and 061 36 inch
Pedal Free Travel	eries /41 and 941—94 Inch
	and 961-11/2 to 13/4 inches
TRANSMISSION	
Туре	Models 741 and 941-
Constant	mesh, 4 speed, helical gear
Gear Ratios:	en somen i en e di bare againe de anni Consta
First Gear	
Second Gear	9.06 to 1
Third Gear	
Fourth Gear	
Reverse Gear	
TypeModels 951 and 961—Constant	Consod belief man
	mesn, 5 speed, nencai gear
Gear Ratios:	
First Gear	
Second Gear	
Third Gear	8.31 to 1
Fourth Gear	6.02 to 1
Fifth Gear	3.38 to 1
Reverse Gear	10.29 to 1
HYDRAULIC SYSTEM	
Type	Tive action
Maximum Pressure	2000
	2000 p.s.i.
Pump:	D'
Туре	
Drive	
Capacity 4 G.P.N	M. at 2000 R.P.M. (Engine)
ControlImplemen	nt position or constant draft
POWER STEERING SYSTEM	
Type Maximum Pressure	External Linkage
Maximum Processes	700.800 n c i
	p.s p.s
Pump: Type	Disco
Type	Piston
Drive	
Capacity	5.00 G.P.M. at 1250 R.P.M.
Cylinder:	
Туре	Integral Cylinder and Valve
REAR AXLE	
Type	Semi-floating
TypeRatio.	7 19 to 1
BRAKES	
Type	Internal expanding
Control	Mechanical
Width	1½ inch
Drum Size	
Pedal Free Travel	

AMERICAN PETROLEUM INSTITUTE OIL CLASSIFICATION

NEW TYPE		WHEN TO USE	OLD TYPE
ML	Light or norm	rable Conditions:	es aver- empera-
мм	Moderate to	vere Conditions: severe operation. This is ad most temperature con	includes
MS	This type of op- loads and tempting winter mo- dilution and s- ture, heavy-loa- the lubrication	peration includes the most perature variation. Operation this promotes condensate ludge formation. High to d service promotes oxide oil and may cause high-to- ted sludge deposits.	st severe ion dur- tion, oil empera- ation of

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