

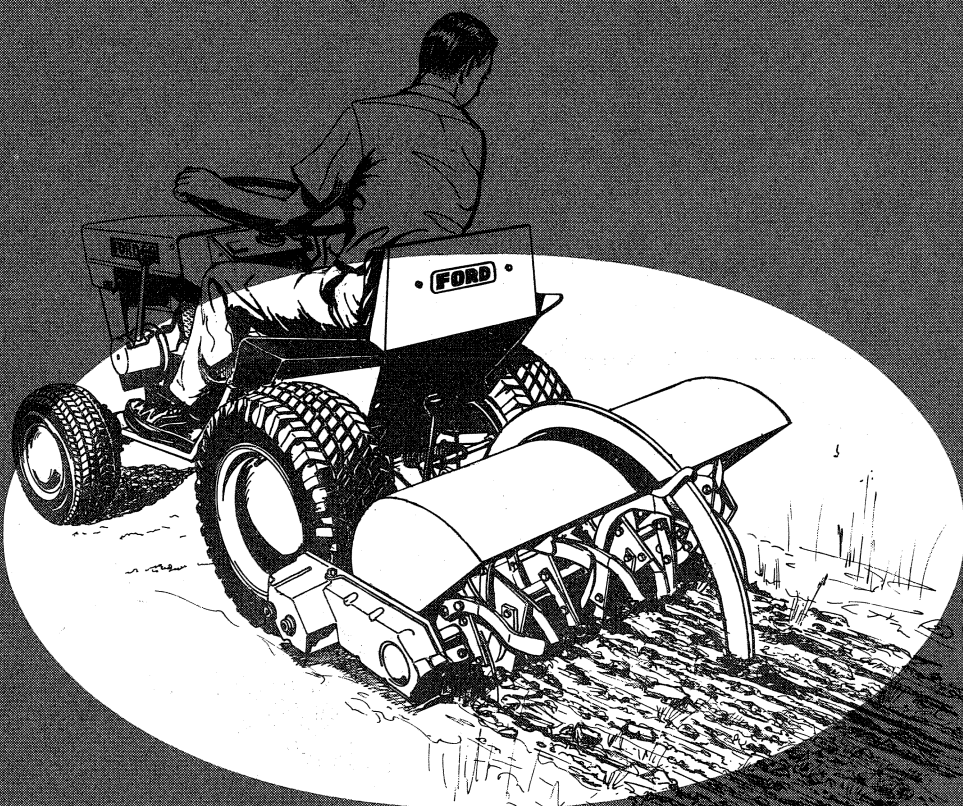
FORD

TILLER - 32-INCH

FORD 80 and 100 LAWN AND GARDEN TRACTORS

42641053

OPERATOR'S MANUAL



FORD TRACTOR OPERATIONS

FORD MOTOR COMPANY

Reprinted

FOREWORD

THIS MANUAL PROVIDES SUGGESTED OPERATING TECHNIQUES TO HELP YOU OBTAIN EFFICIENT AND DEPENDABLE USE FROM YOUR NEW FORD TILLER. THIS MANUAL ALSO CONTAINS GENERAL INFORMATION, SPECIFICATIONS, SAFETY SUGGESTIONS, MAINTENANCE, AND SET-UP INFORMATION.

READ THIS MANUAL CAREFULLY BEFORE OPERATING YOUR TILLER. KEEP IT HANDY FOR FUTURE REFERENCE. IF, AT ANY TIME, YOU HAVE ANY QUESTIONS ABOUT YOUR TILLER, REMEMBER YOUR FORD TRACTOR-EQUIPMENT DEALER IS BEST QUALIFIED TO HELP YOU. HE HAS FACTORY-TRAINED SERVICE TECHNICIANS, GENUINE FORD PARTS, AND THE CORRECT TOOLS AND EQUIPMENT TO DO THE JOB RIGHT IN THE SHORTEST POSSIBLE TIME.

SERVICE DEPARTMENT
FORD TRACTOR OPERATIONS
FORD MOTOR COMPANY

WARRANTY

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

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

EXCEPT FOR PERSONAL INJURIES PROVED TO HAVE BEEN CAUSED BY A DEFECT, THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS AND OF ANY OTHER OBLIGATION ON THE PART OF THE COMPANY AND/OR ITS AUTHORIZED DEALERS.

BATTERY ADJUSTMENT POLICY – Any original Ford equipment or Ford accessory battery found to be defective after expiration of the regular six month warranty coverage to the original purchaser, will be replaced by any authorized Ford Tractor-Equipment Dealer on a pro rata basis for a period from 7 to 24 months, but not exceeding 24 months from date of sale to original purchaser.

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

This warranty covers Ford Tractors and Equipment sold by authorized Ford Tractor-Equipment Dealers for use within the United States only.

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OPERATING INSTRUCTIONS

NOTE

GEAR SHIFT TRACTORS FORD 100 & FORD 120 MUST BE EQUIPPED WITH TILLER ADAPTER KIT NO. JAC-59761. HYDROSTATIC DRIVE TRACTORS FORD 100, 120 AND 140 MUST BE EQUIPPED WITH TILLER ADAPTER KIT NO. JAC-59774. The tiller adapter kits provide pulley required to drive tiller. (Tiller Adapter Kit is not included with Tiller. It must be ordered separately from your dealer). If the Tiller is not to be used for an extended period of time, the adapter pulley should be removed and the standard pulley replaced. Instructions for attaching tiller to tractor covers mounting of tiller adapter kit combined with tiller mounting instructions.

GENERAL INFORMATION

Power required to operate tiller is supplied by the tractor engine by means of the tractor drive belt. When tractor clutch is disengaged, power to tiller is also disengaged. For all tilling operations, tractor clutch must be engaged.

Tiller clutch engages and disengages drive power to tiller when the tractor clutch is engaged. This allows independent control of tiller drive power when tractor clutch is engaged.

Dual wheels or tire chains cannot be used with tiller, nor can the left rear wheel be mounted in the wide tread position. Mounting left rear wheel in the narrow tread position (valve stem out) is necessary to provide clearance for tiller gear housing.

PREPARATION OF TRACTOR

For best possible results use front and rear wheel weights or calcium chloride in all tires. The use of these items are not necessary, but tractor and tiller will handle better and depth of tilling on one pass can be increased.

TILLER FAMILIARIZATION AND PREPARATION

NOTE

The following adjustments are a starting point, further adjustments may be required.

TILLER CLUTCH (See Fig. 1)

Tiller clutch is operated by the clutch rod located on the left side of tiller carrier frame.

To disengage tiller clutch: Push clutch rod down until stop on rod passes through guide. Move rod to the left and allow rod to move up until stop hooks under guide.

To engage tiller clutch: Push down and to the right on clutch rod and slowly allow spring tension to move clutch rod up until full spring tension is applied to belt. Do not allow clutch rod to "fly" up; ease rod up until clutch is properly engaged.

UNIT SUPPORT ARM (See Fig. 1)

1. Set unit support arm so that the second hole from the end (first hole on support arm furnished with adapter kit for hydrostatic tractors) is fastened to support pin on tiller frame. The holes in the unit support arm are used for tiller depth control and transport. The hole closest to the end of the arm will allow the tiller to till the deepest. The hole furthest from the end will allow the tiller to ride the highest from the ground for transport purposes.
2. The slotted end of the unit support arm is designed to be a free floating member which allows the tractor or tiller to ride independently of each other. Tractor lift handle should be all the way forward. Tractors equipped with hydraulic lift, ram should be in the full extended position.

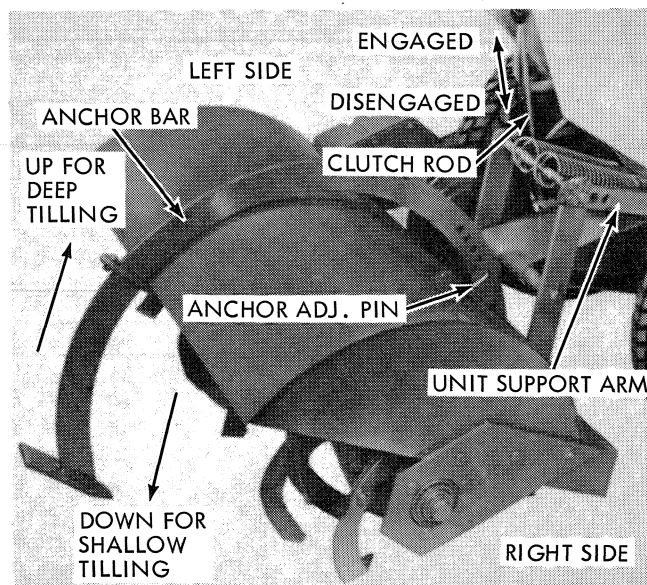


Figure 1.

ANCHOR BAR (See Fig. 1)

1. Set anchor bar so that the anchor adjusting pin is through the center hole (6 holes from either end) of the anchor. The anchor bar regulates the depth that the tiller blades will dig into the ground. The DEEPER the anchor is into the ground, the SHALLOWER the tiller will dig. The HIGHER the anchor is, the DEEPER the tiller will dig. The anchor is properly adjusted when the tiller is working as deep as desired without over-riding the tractor (causing tractor to surge forward leaving untilled ground).

2. In heavy soil it may be necessary to disconnect one or both assist springs to keep tiller in the ground. The depth of the anchor will govern the amount of drag and regulate the feed to the tiller. If tractor continues to surge, adjust the anchor to make two cuts: one shallow, the next at the required depth.
3. On each job adjust anchor to achieve a balance for your particular type of soil condition.

SPEED SELECTION

1. For tilling operation, use low gear in transmission.
2. For hydrostatic transmissions, use slow speed. Move speed selection lever to a position near neutral. This provides slow speed and increased power.
3. To reduce soil to finer particles than may be achieved on the first pass, go over area a second time at the same depth.
4. Do not till too deep at any one pass. Match depth and speed of tilling with ground conditions. Till only as deep as conditions will allow for smooth easy operation of machine. Make several passes to obtain greater depth under extreme conditions.

OPERATING TILLER

NOTE

Before operating tiller check all fasteners and hardware for proper installation. Also check unit for proper lubrication and all moving parts for freedom of movement.

1. Before starting engine place tiller in the transport position with tiller clutch disengaged. Depress tractor clutch and start engine. Shift tractor into low gear (1st) and position tractor for tilling. Set throttle for fast engine speed.
2. With tiller in the transport position, engage tiller clutch.
3. With tractor in position for tilling, release tractor clutch, and slowly lower tiller into the ground as far as it will go. When tiller reaches its own level, make certain lift handle is full forward to allow free floating between the two units.

ANALYZE OPERATION

1. Are you tilling to desired depth?
2. Is tractor moving at a steady pace?

If both (1) and (2) answer is yes, machine is well adjusted for the soil being tilled.

If answer to (1) is no and you want to go deeper, check slotted hole in unit support arm. If bolt through slotted hole is at front end of slot, move unit support arm to the last hole and attach to support pin. If still not deep enough, raise earth end of anchor. Move one hole at a time until you reach desired depth or tiller gear housing reaches soil level, however, if tractor surges or moves forward unevenly, do not go quite so deep. If necessary, take two or more passes until desired depth is reached.

EXPLANATION TO LIMITATIONS FOR TILLER

In heavy soil - deep tilling - it may be required to till in gradual steps. Lower lift handle on side of tractor 2 notches for first pass. Make subsequent passes by lowering 2 additional notches with each pass until desired depth of tillage is reached.

Number of notches to lower on each pass to be regulated by firmness of soil.

Do not float machine except in light tilling. Ability to control unit in float position can only be accomplished by skilled operator, who must listen to tractor engine, operate traction clutch, or regulate speed control lever on Hydrostatic model.

ATTACHING TILLER TO TRACTOR

UNPACKING

The tiller is shipped in a protective crate and is completely assembled except for the tiller drive belt, anchor and unit support arm. Remove tiller and all parts from crate and attach tiller to tractor as follows:

WARNING

Keep hands away from the tiller pulleys until the carrier frame has been pivoted away from the tiller.

TILLER ADAPTER PULLEY - For Ford gear shift tractors No. 100 and 120 (Parts located in Tiller Adapter Kit No. JAC-59761)

1. Remove left rear wheel from tractor. Support rear of tractor with a jack or blocks making certain tractor is adequately supported.
2. Remove belt shield from left side of tractor by removing two acorn nuts from the side and a slotted head screw from top of shield. (See Fig. 2 for location of hardware.)
3. Depress brake pedal and lock parking brake to release spring tension on tractor drive belt.
4. Loosen square head set screw in transmission input pulley and pull pulley off shaft (see Fig. 3). Do not lose key in shaft. Remove tractor drive belt from around input pulley.

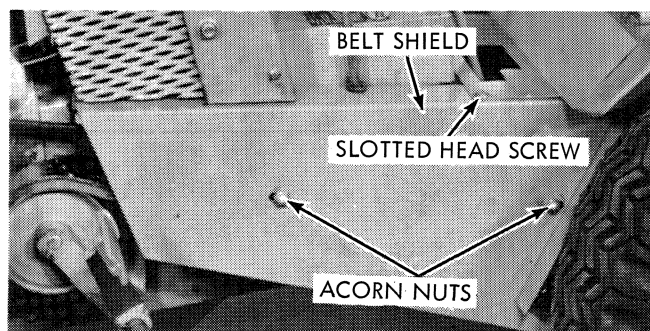


Figure 2.

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