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MANUAL PREVIEW

Ford Operator's Manual

140 Series Plow

Operator's Manual

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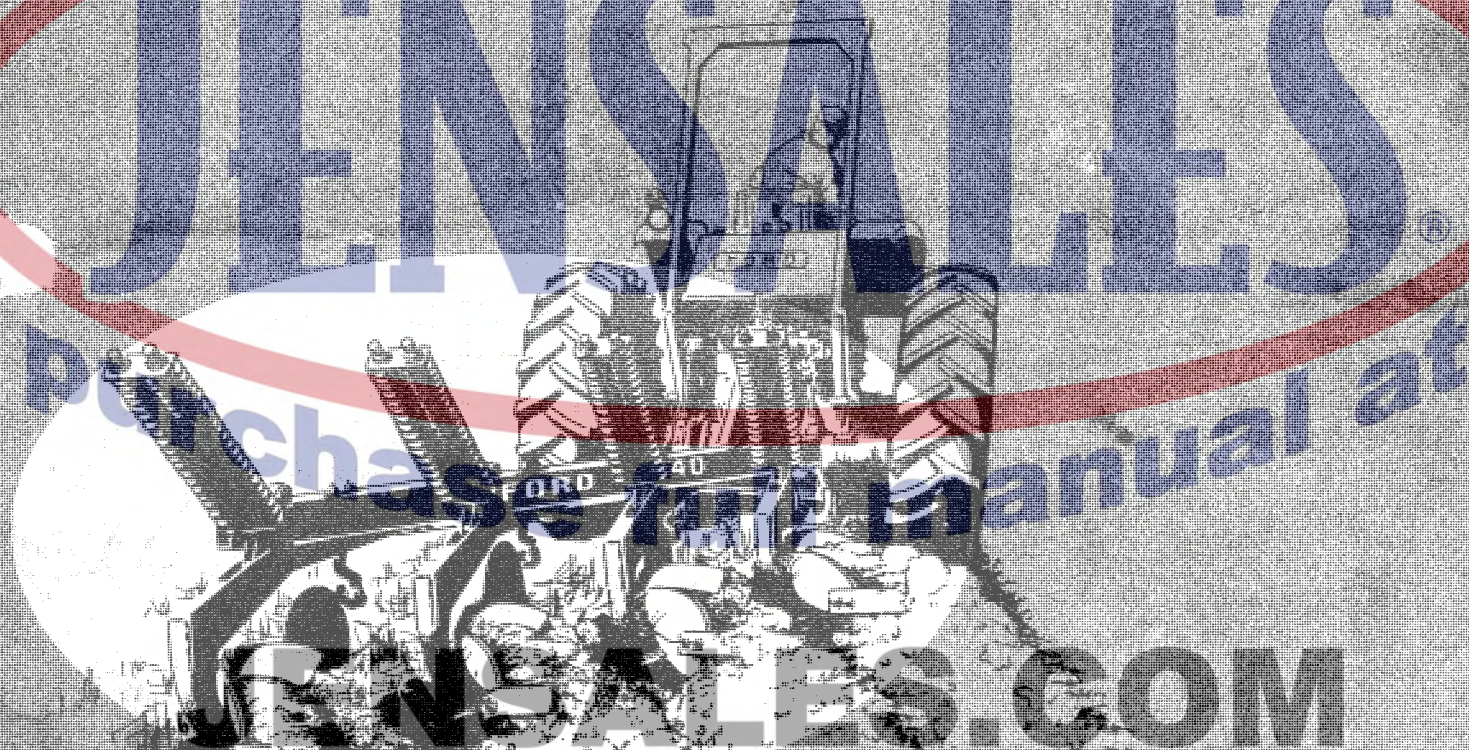
FO-O-140 PLOW

FORD

SERIES 140

PLOW

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FORD TRACTOR OPERATIONS

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GENERAL INFORMATION

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Figure 1
Ford Series 140 Mounted Plow-Four Bottom Shown



Figure 2
Ford Series 140 Semi-Mounted Plow - Five Bottom Shown

GENERAL INFORMATION

GENERAL

The Ford Series 140 Plow is a high clearance close rank plow. It will do an excellent job of plowing in moderate trash conditions and has up to 30 inches under-frame clearance to allow surface trash to flow through unobstructed for deep, clean plowing and good coverage.

The Ford Series 140 Plow is available fully mounted with three to five bottoms, Figure 1; or semi-mounted with four to six bottoms, Figure 2.

These plows feature a 4" x 6" box frame that is set ahead of the plow bottoms to provide added trash clearance. Also featured is a wide selection of vertical

beams, bottoms, and coulters, and a complete range of adjustments for a variety of soil conditions.

The plows can be used on various tractors as shown in the following charts. The charts show the minimum Ford tractor model required for the various size plows. For example, where the Ford 4000 Tractor is shown, the Ford 5000, 7000, 8000, or 9000 Tractor may also be used. Tractors exceeding 130 P.T.O. horsepower are not recommended for use with the Ford Series 140 Plow. The charts are based on a plowing depth of 7 inches using 14-inch bottoms, 8 inches using 16-inch bottoms, and 9 inches using 18-inch bottoms; and at a speed of 4 mph using general purpose bottoms and 6 mph using high speed bottoms.

MOUNTED PLOW – TRACTOR USAGE CHART
Minimum Ford Tractor Size Required

Number of Bottoms	Vertical Beams	Bottoms					
		General Purpose			High Speed		
		14"	16"	18"	14"	16"	18"
3	Low Pivot Shear Bolt or Spring Trip Beam	3000	4000	5000	—	—	—
	High Pivot Shear Bolt or Spring Trip Beam	3000	4000	5000	5000	7000	8000
	High Pivot Auto-Reset Beam	3000	4000	5000	5000	7000	8000
4	Low Pivot Shear Bolt or Spring Trip Beam	4000	5000	7000	—	—	—
	High Pivot Shear Bolt or Spring Trip Beam	5000	5000	7000*	7000	8000	9000
	High Pivot Auto-Reset Beam	7000*	8000	8000	8000	9000	9000
5	Low Pivot Shear Bolt or Spring Trip Beam	5000*	7000*	8000	—	—	—
	High Pivot Shear Bolt or Spring Trip Beam	8000	8000	8000*	8000	9000	N.A.
	High Pivot Auto-Reset Beam	9000*	9000*	9000*	9000*	9000*	N.A.

— High speed bottoms are not recommended with low pivot vertical beams.

* Requires optional tires and front end weights for stability.

N.A. — Not Applicable

NOTE: The above chart is based on a Ford Series 140 Mounted Plow equipped with heavy duty bottoms spring-mounted coulters, coverboards, gauge wheel and rolling landside. Tractors not covered by the chart can be used provided they have the hydraulic lift capacity to handle the plow: engine horsepower comparable to the Ford Tractor matched to the plow selected; A.S.A.E. standard three-point lift linkage; and can be adequately weighted for stability of operation.

PRE-OPERATION

If coulters are installed, adjust the rear coulters first. Then adjust the other coulters identically in order to feed the same amount of dirt to each bottom to reduce ridging. Final adjustments must be made in the field to meet soil conditions and plowing depth requirements. Adjust the coulters as follows:

1. Position the offset in the stem forward and turned slightly to the unplowed ground as shown in Figure 3. Turn the stem as required to position the coulters blade 1/2 to 3/4 inch left of the landside with the blade parallel to the landside. In firm soil, set the blade in closer; in loose soil, set the blade out. The coulters should leave a clean furrow wall.
2. Position the collar on the stem to allow 3/4 to 5/6 of the total swing toward the unplowed ground. Tighten the set screw, rap the head of the set screw sharply with a hammer to set it, and tighten again.
3. **Spring Mounted Coulters:** Set the spring length on each coulters to 6-3/4 inches as an initial setting. Shorten the spring to increase down pressure and lengthen the spring to decrease pressure in adverse conditions.

NOTE: Do not compress the spring completely.

4. Set the coulters only deep enough to cut surface trash and never more than half the plowing depth. Coulters set too deep tend to:
 - Push, rather than cut trash.
 - Slow plow penetration in hard ground.
 - Hold the plow out of the ground, causing uneven plowing depths in hard soil.
 - Increase plow draft.

Remember that spring-mounted coulters move rearward and upward when plowing, according to soil conditions, trash, and the spring adjustment. In average conditions, the coulters may rise three or more inches.

5. Position the coulters far enough forward to avoid the turning effect of the share on the soil. Normally, on plows equipped with low pivot vertical beams, a space of 3 to 4 inches between the coulters blade and the nearest point on the shin will provide proper clearance. Soft soils or heavy trash may require a more forward position. In hard soils, move the coulters toward the rear of the plow to reduce the tendency of the coulters to ride the plow out of the ground. In some instances, it may also be necessary to raise the coulters. On plows equipped with high pivot vertical beams the coulters should be adjusted fully rearward.

6. Always check the front coulters for adequate clearance from tractor parts.

JOINTERS

Jointers, Figure 4, slice and turn a strip of soil at the side of the furrow for better trash coverage.

If jointers are installed, adjust the rear jointer first. Then adjust the other jointers identically in order to feed the same amount of dirt to each bottom to reduce ridging. Adjust as necessary to suit field conditions.

1. Position the jointer on the plow beam with the hub approximately over the share point. On plows equipped with high pivot vertical beams position the jointer fully rearward.



Figure 4
Jointer Adjustment

PRE-OPERATION

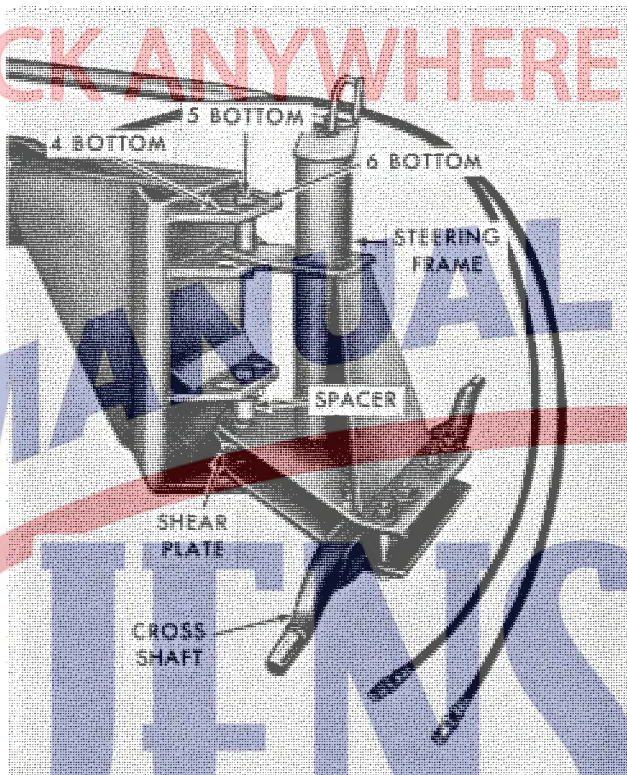


Figure 8
Semi-Mounted Hitch Adjusted to Lower Setting

MOLDBOARD EXTENSIONS

Moldboard extensions, Figure 7 (high speed bottoms and sod and clay bottoms only), increase the pressure on the furrow slice and prevent it from falling back into the furrow. The slots in the moldboard extension provide ample adjustment to increase or decrease the pressure on the furrow slice. To increase the pressure on the furrow slice, move the extension down. To decrease the pressure, move the extension up.

SEMI-MOUNTED PLOW HITCH ADJUSTMENT

The hitch on the semi-mounted plow must be properly adjusted to obtain the correct center of load and line of pull relationship between the plow and tractor. Before making any change in the hitch setting, be sure the tractor rear tires are set to the recommended wheel spacing indicated in the chart on page 7, and are inflated to the pressure recommended in your Tractor Operator's Manual.

The steering frame on the plow, Figure 8, is assembled to the plow hitch support with hitch pins located in mounting holes corresponding to the number of bottoms on the plow frame. Normally, this setting should not be changed. For most field conditions, any horizontal hitch adjustment is accomplished by relocating the cross shaft laterally in the steering frame and/or respacing the tractor rear wheels.

The steering frame can be adjusted vertically to either one of two positions by relocating the spacer either above or below the steering frame support plates, as shown in Figures 8 and 9. Moving the steering frame to either position also requires relocating the shear plate.

When the hitch is moved to its lower setting as shown in Figure 8, weight is transferred to the front of the tractor for increased tractor stability. Conversely, moving the hitch to its upper setting as shown in Figure 9, transfers weight from the front to the rear of the tractor for greater traction. As an initial setting, the steering frame should be positioned to its lower setting with the spacer and shear plate located as shown in Figure 8, and the cross shaft centered in the hitch. Final adjustment, depending upon soil conditions and tractor weighting, should be made in the field.

HYDRAULIC LANDING ATTACHMENT – SEMI-MOUNTED PLOWS (Optional)

The hydraulic landing attachment, Figure 10, allows the operator to control the width of cut on the front bottom from the tractor seat by extending or retracting the remote cylinder mounted on the plow steering frame. The attachment is extremely useful when working on contoured ground or hillsides. Center the cross shaft in the hitch as an initial setting.

IMPORTANT: The hydraulic landing attachment requires a standard A.S.A.E. hydraulic cylinder with a 3-inch diameter and an 8-inch stroke. A smaller cylinder will not effectively operate the landing attachment. For



Figure 9
Semi-Mounted Hitch Adjusted to Upper Setting