



# LIFT TYPE DEARBORN SUBSOILER MODEL 10-89



## OPERATING INSTRUCTIONS

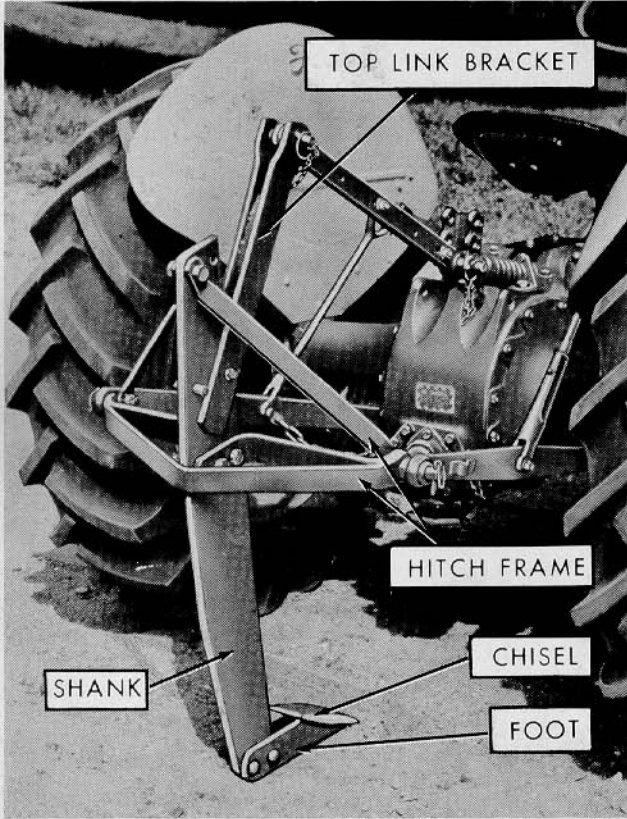


Figure 1

The Dearborn Subsoiler Attached to the Ford Tractor

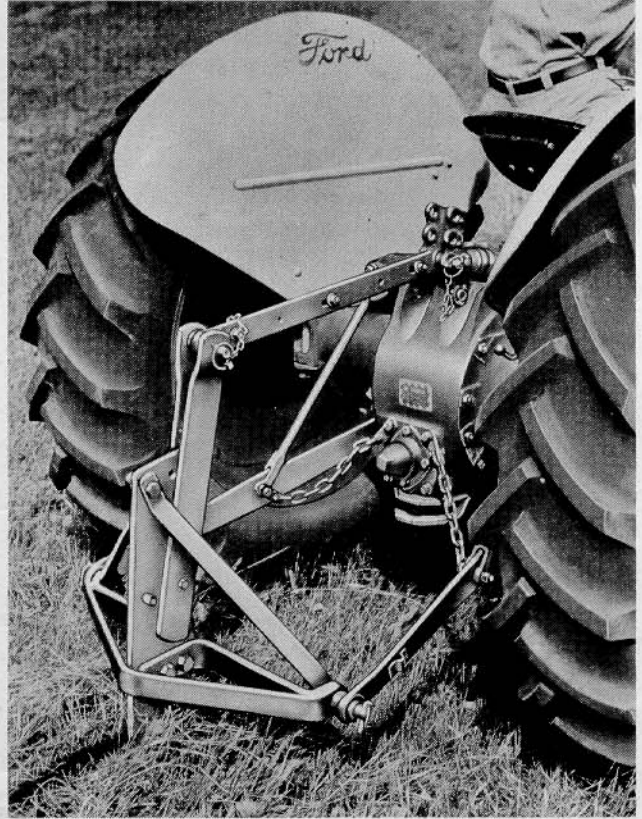


Figure 2

The Subsoiler at Work

### ASSEMBLY

The Dearborn Subsoiler is shipped complete in one bundle. It is assembled as shown in Figure 1.

### DESCRIPTION AND OPERATION

The Dearborn Subsoiler is designed and constructed for efficient performance and long life. It is quickly attached to the Ford Tractor (See Figure 1) and is raised to transport and lowered to working position by the Ford Tractor Hydraulic Touch Control Lever. The tool requires no lubrication.

Both the chisel (See Figure 1) and the shank of the Dearborn Subsoiler are reversible. This feature doubles

the working life of the tool and makes available two cutting edges on both these parts.

Bolt holes in the shank provide for mounting the hitch frame and top link bracket (See Figure 1) when the shank is turned end for end.

The chisel can be reversed by removing the bolts that secure it to the foot of the subsoiler.

The Subsoiler is a tool which, when properly used, will do much to improve the productivity of land. The tool operates well below the level of the average plow furrow bottom, thereby loosening the subsoil and breaking up the plow sole and in many cases the natural "hard pan". This action does three things which directly benefit plant growth.

First, loosening the soil enables water to penetrate

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more readily and to greater depths. It restores the moisture storing capacity of the subsoil and reduces the loss of valuable moisture through "run off" and evaporation.

Second, loosening the subsoil and breaking up the plow sole permits the plant root system to penetrate to greater depths in search of moisture.

A third benefit resulting from the use of the subsoiler is that of loosening the soil which permits water stored in the subsoil to rise, replenishing surface moisture. Subsoiling is an effective means of draining low spots in the field. In hilly fields, contour subsoiling is most effective.

Depending upon soil conditions, the subsoiler can be operated at various depths down to 18 inches. See Figure 2. The subsoiler will perform well in either the Implement Position or Constant Draft Control setting

of the Ford Tractor's Hydraulic Mechanism, depending on the preference of the operator.

## ADJUSTMENTS

**Tractor Top Link:** The tractor top link should be adjusted to the intermediate setting of 25½ inches to attain maximum chisel life.

**Leveling:** Level the implement hitch with the tractor draw-bar leveling crank so that the subsoiler is held in a vertical position.

## CARE AND MAINTENANCE

Keep all bolts and nuts tight at all times. Special attention should be given this matter during the first few days of operation.

Keep ground engaging surfaces covered with a good grade of rust preventive when the tool is not in use.