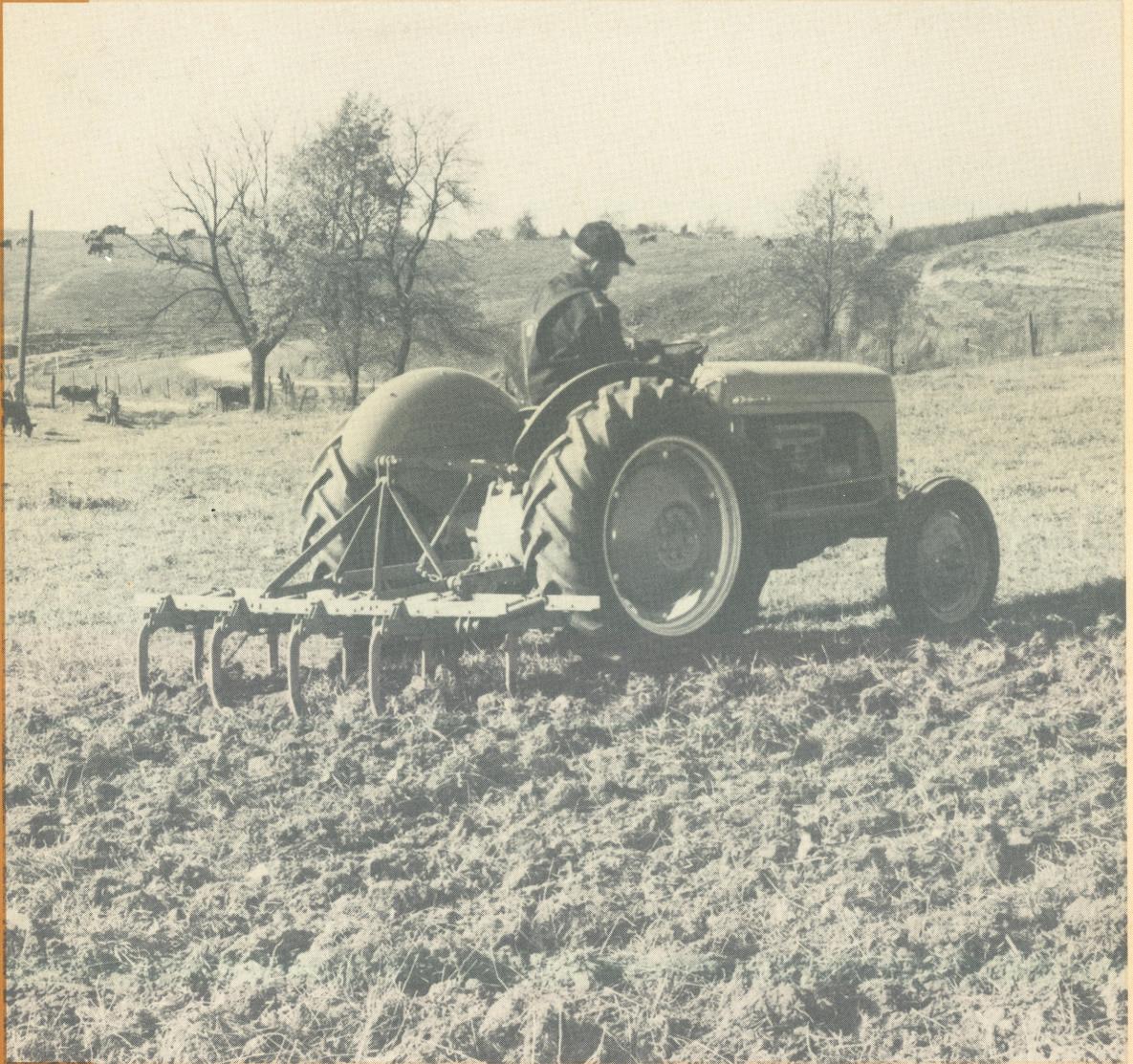


# FERGUSON TILLER

MODEL BO-20



**OPERATING  
and ASSEMBLY  
INSTRUCTIONS**



**HARRY FERGUSON, INC. • DETROIT 32, MICHIGAN**

# THE BO-20 TILLER

The Ferguson Tiller is among the most useful of implements ever designed to meet the all-season needs for a universal tillage tool for nearly every type of farming. The tiller has thoroughly proved its value on many thousands of farms, not only in the United States, but in many other areas throughout the world. Among its many uses, the Ferguson Tiller has proved a favorite implement for fast, low-cost seedbed preparation, control of noxious weeds, fallow land clutivation, renovation of pastures and orchard or vineyard cultivation.

Because of its ability to get down deep and work the soil without inverting the surface, the Tiller is playing an increasingly important part in farming methods designed to conserve both soil and rainfall. This is especially true of the so-called "mulch farming" methods of soil tillage. With the Tiller, stubble and other crop residues are mixed with the top soil, thus increasing water absorption capacity and retarding erosion from both rain and wind.

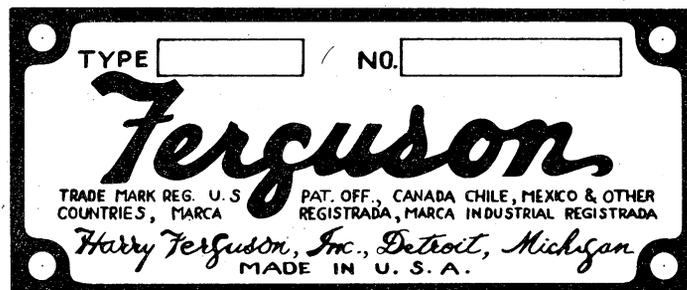
This ruggedly constructed implement enables you to renovate pastures or work the soil in fields filled with rocks, roots and other obstructions, without any loss of time. This is made possible by the automatic resetting action of the tines.

In many cases, the Tiller is the only implement needed to prepare satisfactory seedbeds. In other cases it may be used in conjunction with either the plow or the disc harrow, or both, depending upon soil conditions and the crop to be planted.

Included in this manual is information concerning lubrication and maintenance, operation, assembly instructions, and numerous illustrations of the Ferguson BO-20 Tiller. Read, study and follow these instructions to get longer life, maximum performance and the utmost satisfaction from your new implement.

Only GENUINE FERGUSON REPAIR PARTS should be used on your FERGUSON BO-20 TILLER. These parts are designed and built to fit correctly and give maximum service. They may be purchased only from your AUTHORIZED FERGUSON DEALER.

All FERGUSON equipment is identified by a FERGUSON name plate or decal. If this identification is not attached, it is not FERGUSON equipment. Check for it before purchasing the equipment.



# LUBRICATION AND MAINTENANCE

The Ferguson BO-20 Tiller requires very little maintenance. There are no lubrication fittings on the Tiller. The only lubrication necessary is a small amount of oil on the pivot points of the tines so that they will trip or give as the implement works. These pivot points should be oiled at the beginning of each working season and again when the Tiller is stored between seasons. It is good practice to cover soil engaging parts, such as shovels, points or sweeps, with a rust preventive whenever the implement is left standing

long enough so that the parts may rust.

All nuts and bolts should be checked and, if necessary, tightened each day before using the implement. Any parts, which become damaged through misuse or accident, should be repaired or replaced immediately. The best method of replacing a spring is to hook one end of the spring to its pin and, using a short piece of pipe slipped through the other spring loop and over the second pin, lever the spring into place.

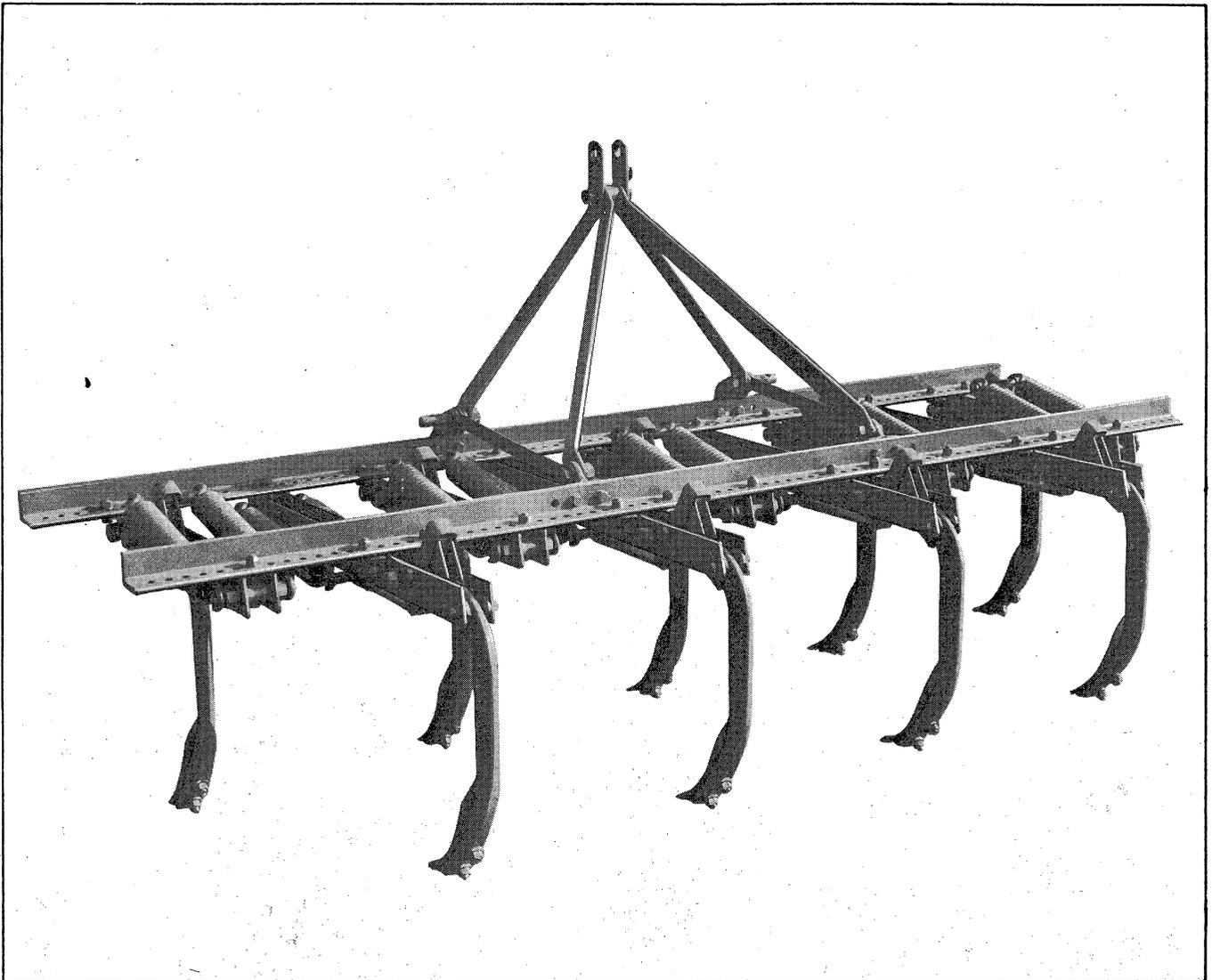


Fig. 1 The BO-20 Tiller

# OPERATING INSTRUCTIONS

Some of the uses of the BO-20 Tiller are mentioned in the introduction. The more common of these are seed bed preparation, pasture renovation and fallowing work. As the owner becomes more familiar with this implement, he will discover many more jobs for which it is ideally suited.

Normally the tiller is operated with the tractor wheels set at the 52 inch width. Under certain conditions, such as hillside operation, it may be desirable to set the tractor wheels at a wider spacing.

The tiller is easily attached to the three links of the tractor in the usual manner. Depth of operation is controlled by the fingertip control lever.

The tiller may be tilted for special uses such as working close to vines or trees or in channels or ditches, simply by turning the leveling crank on the right lift arm of the tractor.

Bolt holes are provided in the Tiller frame at one inch intervals. This feature permits spacing both the front and rear tines as desired for row crop or field cultivation. It also enables the operator to add or remove tines to obtain the desired results. The BO-20 Tiller is shipped with nine tines. When special soil or crop conditions require additional tine assemblies, they may be purchased from your Ferguson Dealer and easily attached to the tiller frame.

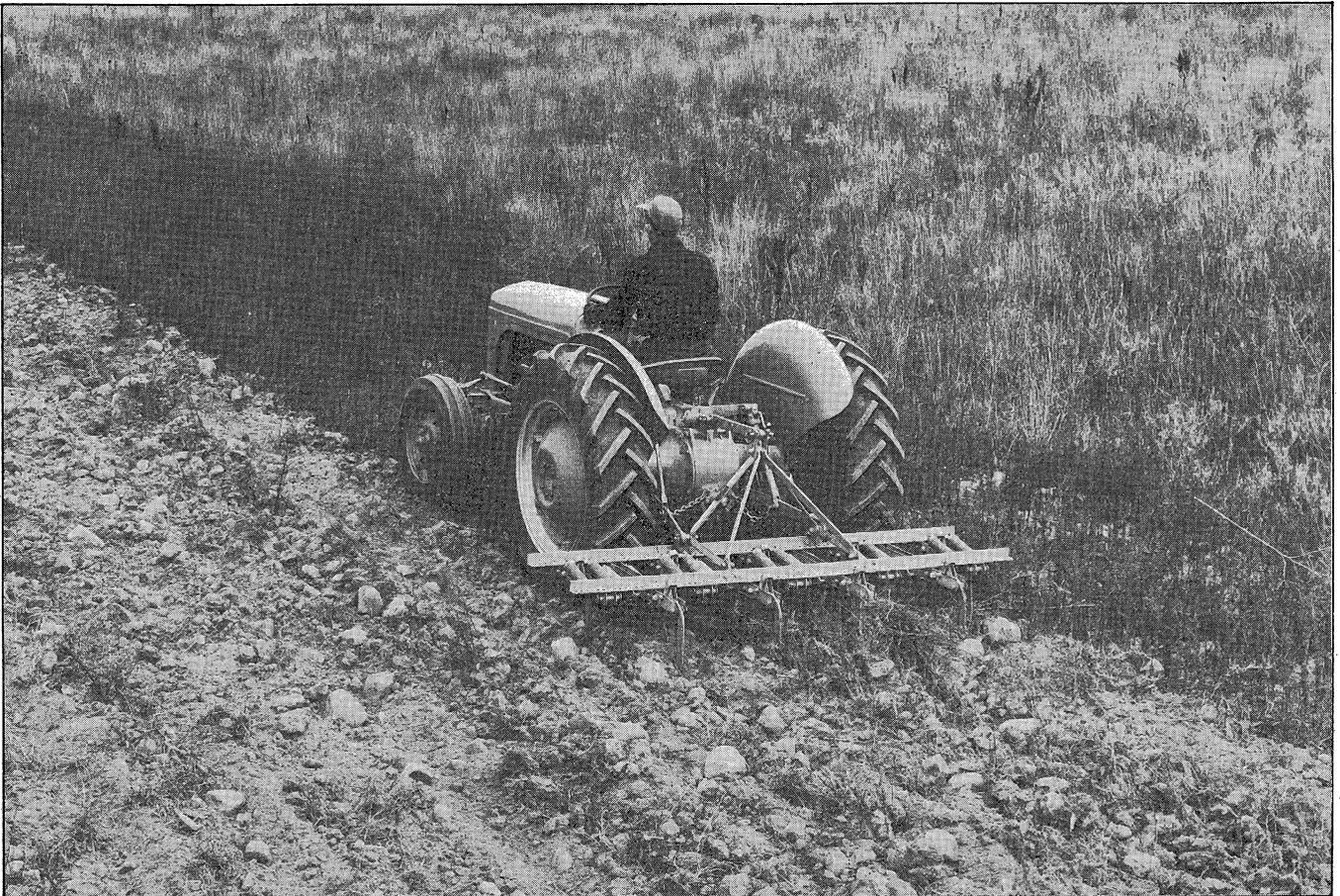


Fig. 2. Operation in Stony Soil

# SWEEPS AND SHOVELS

A wide range of soil-working equipment is available for use with your Ferguson Tiller. The following brief description of this equipment is designed to assist you in choosing the proper point, shovel or sweep for the results you wish to obtain.

## DOUBLE POINT SHOVEL

Ferguson Double Point Shovels are made from high carbon steel, with both strength and hardness to give excellent service in hard soils. These shovels have excellent penetrating and scouring qualities. They are available in both 2 inch and 2 1/2 inch widths, 10 inches long. They are recommended for use when it is desired to work well beneath the surface of the ground. These shovels usually are preferred for summer fallowing, preparation of seedbeds for winter wheat and similar crops, and for field tillage designed to conserve rainfall and retard soil blowing. The shovels may be reversed, giving double the service of a single-pointed shovel.

## SPEAR POINT SHOVEL

These shovels work more deeply than duck foot sweeps, and turn more of the soil than double or single point shovels. They are especially suited for work in light or sandy soils to work the land quite thoroughly.

## GRASSLAND TEETH

These teeth are designed for the cultivation, or renovation, of grasslands where weeds have crept in and the soil has become too hard and tight to readily absorb rainfall. They penetrate hard soils easily, with minimum damage to the roots. Although loosening and aerating the soil to a considerable depth, the surface of the field is left in almost its original smoothness.

Grassland teeth are especially suitable for shallow sub-soiling to break up hard pan below plowing depth. Using a reduced number of tines with grassland teeth spaced up to 20 inches apart, the tiller also will break up

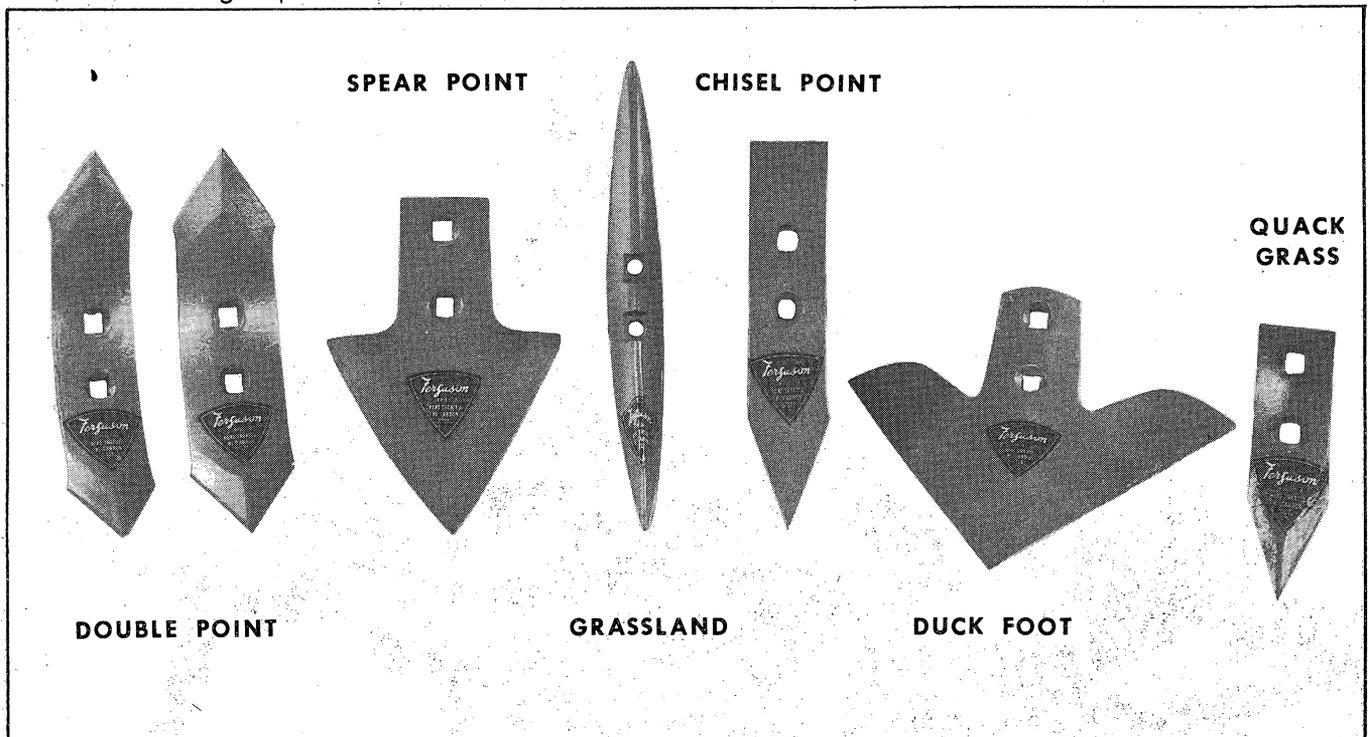


Fig. 3 Available Sweeps & Shovels

extremely hard, dry soils, enabling a plow to follow with good results for early fall seeding, when otherwise it would be necessary to wait for rain before plowing could be started.

### CHISEL POINT SHOVEL

Ferguson Chisel Point Shovels are especially adapted for work in tight soils where a combination of good penetration and light draft are desired. With these shovels the tiller will reach down below plow sole, breaking up the hard pan, loosening and aerating the soil and conditioning it to absorb rainfall which otherwise might run off. By this action, moisture is conserved for the use of crops, and soil erosion is retarded. In many cases chisel points are the preferred equipment for preparing old pastures for reseeding.

### DUCK FOOT SWEEP

Duck foot sweeps are used when it is desired to completely cover the ground to cut off weeds below the surface. Sweeps usually are preferred for summer fallowing and for orchard and vineyard cultivation when relatively shallow work to control weeds or break up soil crust are primary considerations.

### QUACK GRASS SHOVEL

Quack grass shovels are especially adapted for the eradication of quack grass. These shovels are designed to give good penetration and to lift the quack grass roots to the surface where they are killed by sun and wind.

## ASSEMBLY INSTRUCTIONS

The Tiller is shipped assembled except for the A frame and shovels.

The four upright struts constitute the A frame. The attaching bolts are properly located in the main frame when the tiller is

shipped. In attaching the A frame, the shorter struts should be vertical and forward, with the longer struts to the rear. The name plate is on the outside of the left front strut. The frame support stay is located to the outside of the A frame assembly and the support bracket.

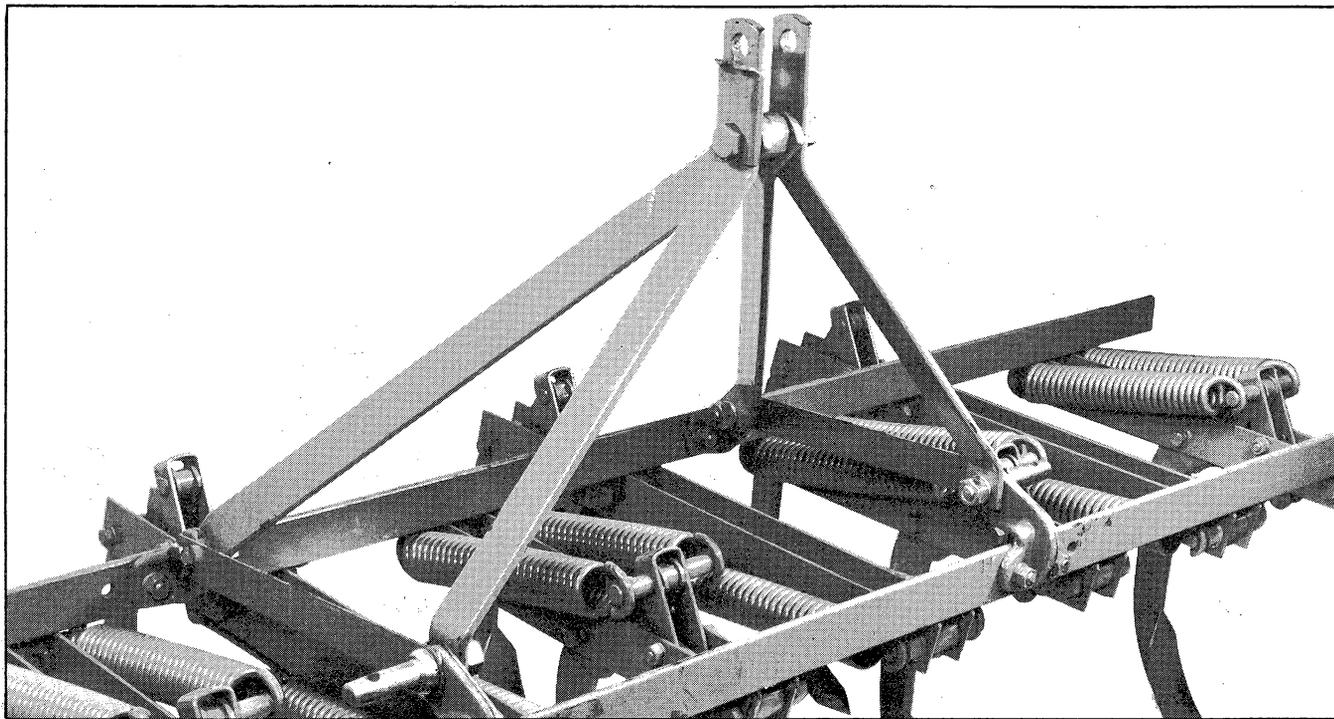


Fig. 4 A Frame

# **HARRY FERGUSON, INC.**

## **IMPLEMENT WARRANTY**

For a period of ninety (90) days from the date of delivery of a new Ferguson Implement to the original purchaser thereof from a Ferguson Dealer, Harry Ferguson, Inc. warrants all such parts thereof (except tires) which, under normal use and service, shall appear to Harry Ferguson, Inc. to have been defective in workmanship or material.

This warranty is limited to shipment to the purchaser, without charge except for transportation costs, of the part or parts intended to replace those acknowledged by Harry Ferguson, Inc. to be defective.

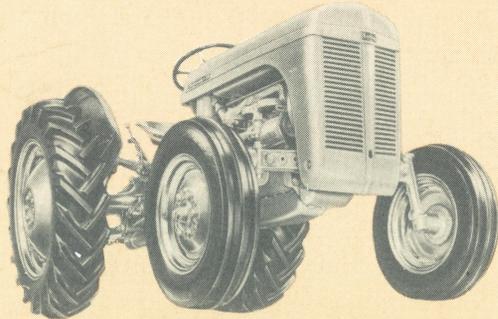
If the purchaser uses or allows to be used on a Ferguson Implement parts not made or supplied by Harry Ferguson, Inc., or if any Ferguson Implement has been altered outside of its own factories or sources of supply, or if attachments have been used which were unsuited and harmful to the Ferguson Implement, then this warranty shall immediately become void. Harry Ferguson, Inc. does not undertake responsibility to any purchaser of a Ferguson Implement for any undertaking, representation, or warranty beyond those herein expressed.

Harry Ferguson, Inc. reserves the right to make changes in design or changes or improvements upon Ferguson Implements without any obligation upon it to install the same upon Implement theretofore manufactured.

See Your Ferguson Dealer for Information

— ON —

# THE FERGUSON TRACTOR AND FERGUSON SYSTEM IMPLEMENTS



## THE FERGUSON LINE

Of Implements Includes

**Moldboard Plows**

**Disc Plows**

**Two-Way Plows**

**Spike Tooth Harrows**

**Spring Tooth Harrows**

**Lift Type Disc Harrows**

**Tandem Disc Harrows**

**Heavy Duty Harrows**

**Spring-Tine Cultivators**

**Rigid-Tine Cultivators**

**Lister Cultivators**

**Agricultural Mowers**

**Heavy-Duty Mowers**

**Multi-Purpose Blades**

**Sub Soilers**

**Manure Spreaders**

**Manure Loaders**

**Corn Pickers**

**Corn Planters**

**Lister Planters**

**Grain Drills**

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**Cordwood Saws**

**Rear Cranes**

**Tillers**

**Middlebusters**

**Four-Row Weeders**

**Four-Wheel Wagons**

**Soil Scoops**

