

Two-Point Fast-Hitch

**with Tel-A-Depth (Rod-Type Linkage)
and Traction Control for**


**McCormick
Farmall 340
and International
340 and 460 Series
Utility Tractors**

Operator's Manual

1014178R2

Reprinted

CASE III




 *THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.*

M171B

If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.



WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

Operator's Manual



INSTALLING INSTRUCTIONS

Two-Point Fast-Hitch

with

**Tel-A-Depth (Rod-Type Linkage)
and Traction Control**

for

**McCORMICK®
FARMALL®**

340

and

**INTERNATIONAL®
340 and 460 Series Utility
Tractors**

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Ave.

Chicago 1, Illinois, U.S.A.

It is the policy of International Harvester to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on products sold previously.

All illustrations and descriptive matter in this publication apply to International Harvester products sold under the International, McCormick, McCormick-International, McCormick-Deering or McCormick-Deering International trade name.

As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to point out more clearly the safety precautions in this manual.

ORDERING NUMBERS

TWO-POINT FAST-HITCH FOR TRACTORS WITH HYDRA-TOUCH SYSTEM

- 375 008 R91 For International 340 Utility Tractors.
- 375 005 R91 For Farmall 340 Tractors.
- 375 014 R91 For International 460 Utility and 460 Diesel Utility Tractors.
- 375 017 R91 For International 460 Hi-Utility and 460 Diesel Hi-Utility Tractors.

TWO-POINT FAST-HITCH FOR TRACTORS WITHOUT HYDRA-TOUCH SYSTEM

- *375 007 R91 For International 340 Utility Tractors.
- *375 004 R91 For Farmall 340 Tractors.
- *375 013 R91 For International 460 Utility and 460 Diesel Utility Tractors.
- *375 016 R91 For International 460 Hi-Utility and 460 Diesel Hi-Utility Tractors.

Note: Where applicable, the following package must be ordered.

- 374 989 R91 Tandem-type fluid filter package -- for tractors with hydraulic power supply which have not had the tandem-type fluid filter installed.

*Note: For tractors without Hydra-Touch system, a hydraulic power supply (one of the following) must be ordered if the tractor is not already so equipped.

HYDRAULIC POWER SUPPLY

The hydraulic power supply is available for tractors with either planetary-type or clutch-type independent power take-off. The planetary-type independent power take-off can be identified externally by a brake band spring sleeve (see Illust. 2) which the clutch-type does not have.

For tractors either with or without 540 r.p.m. planetary-type or clutch-type independent power take-off or torque amplifier.

- 370 947 R93 For Farmall 340 and International 340 Utility Tractors (includes 9 gallon-per-minute externally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, clamps, etc.).

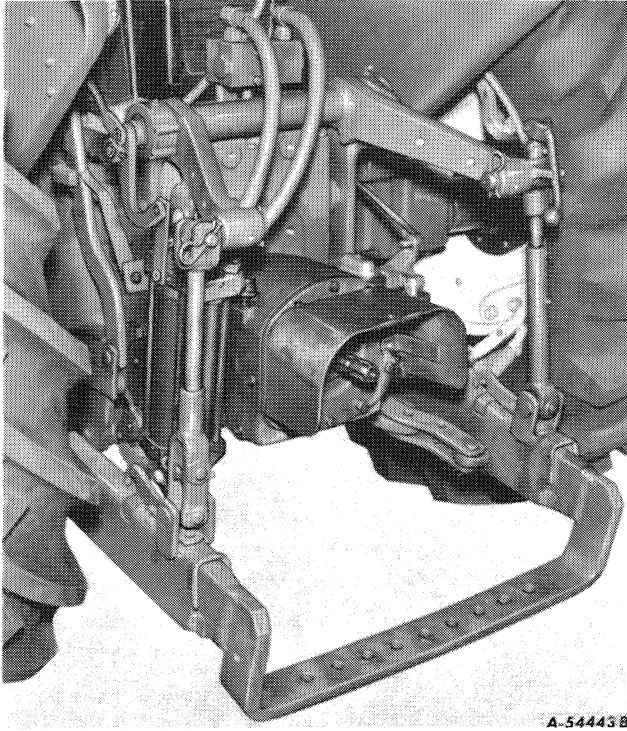
For tractors with 540 r.p.m. planetary-type independent power take-off or torque amplifier.

- 370 948 R92 For Farmall 340 and International 340 Utility Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, clamps, etc.).
- 371 333 R92 For International 340 Utility Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, clamps, etc.).
- 370 903 R92 For International 460 Series Utility Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, clamps, etc.).
- 370 905 R92 For International 460 Series Utility Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, clamps, etc.).

For tractors with 540 r.p.m. clutch-type independent power take-off or torque amplifier.

- 373 723 R92 For Farmall 340 and International 340, 460 and 460 Diesel Utility Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold, tandem-type fluid filter assembly, brackets, clamps, etc.).
- 373 724 R92 For International 340, 460 and 460 Diesel Utility Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter, brackets, etc.).

INTRODUCTION



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Illust. 1
Two-Point Fast-Hitch with Traction Control.

Two-Point Fast-Hitch with Traction Control provides a fast and convenient means of attaching rear-mounted implements. Traction control utilizes the draft or pull of the implement to apply down pressure on the rear wheels and reduce slippage. It also adds to the flexibility afforded by the combination of Hydra-Touch and Hydraulic Remote Control.

Coupling, uncoupling, depth control, traction control, and leveling of implements all can be done from the tractor seat. Other adjustments as outlined on the following pages are available to the operator.

Fast-Hitch has reduced the attachment of implements to the tractor to a simple "line-up, back up, and go" procedure. It is the quickest and easiest way to hitch implements ever devised. The operator remains on the tractor seat and backs in with the socket latches of the hitch either open or closed. Coupling is automatically completed on contact, hydraulic power raises the implement

from the ground, and the operator drives off to the work area. Practically all of the manual labor previously required for attaching implements has been eliminated. Fast-Hitch permits the operator to have maximum time for work in the field, where his profit is made.

The Fast-Hitch consists of a simple bail, with a hinged socket at each end, suspended under the tractor from a rockshaft. The bell-mouthed sockets receive a pair of coupling beams on the implement. The beams on all Fast-Hitch implements have the same shape and spacing. The bail therefore provides a common hitch-frame for all implements.

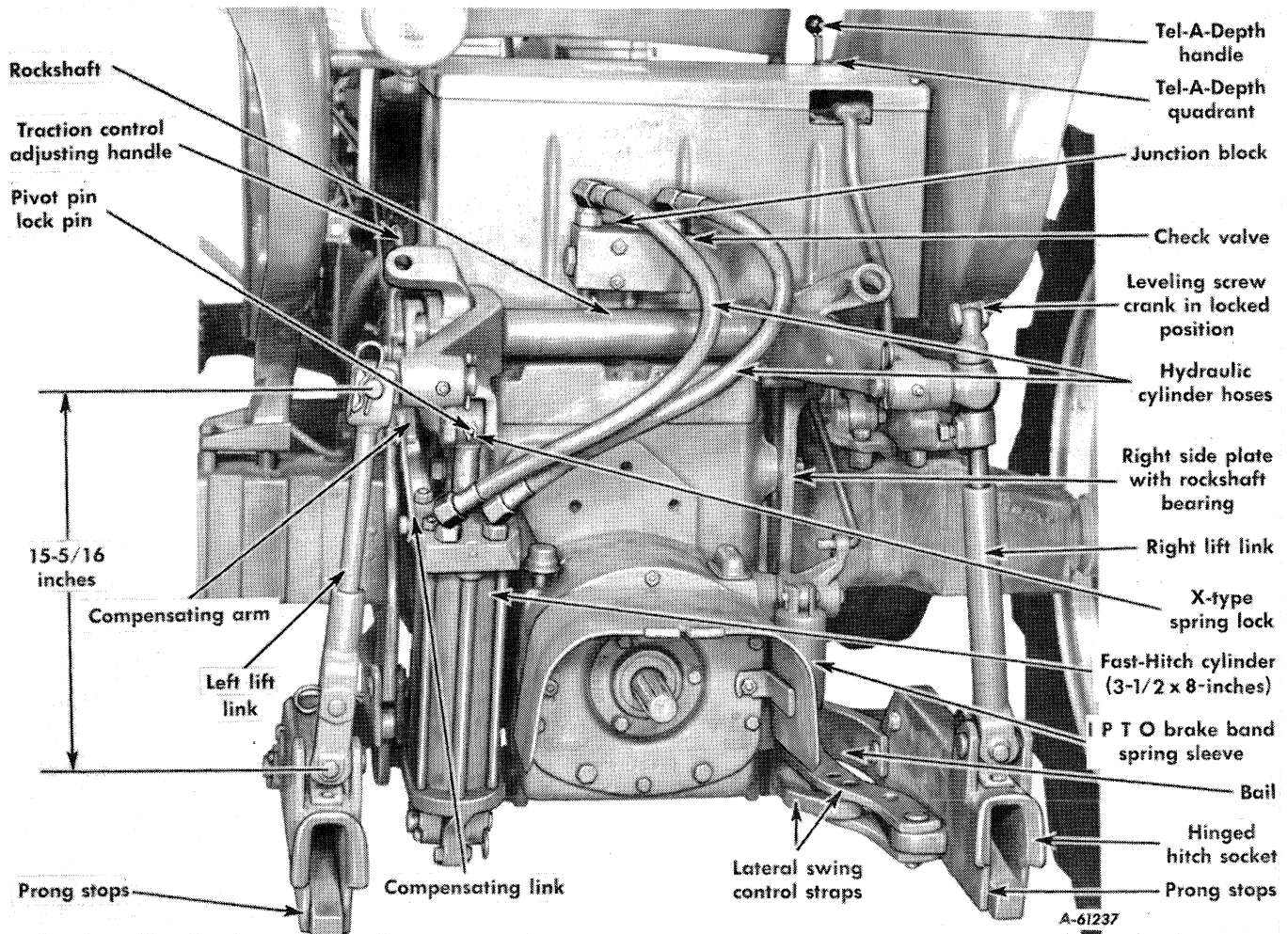
Most controls are built into the hitch rather than on each implement. The Fast-Hitch mounting frame is common for all implements and remains on the tractor. This practically eliminates the need for separate, special pieces formerly required for each implement. This, in turn, keeps the customer's initial investment to a minimum.

Flexibility of the Fast-Hitch and versatility of controls assures top quality work from every implement. Field performance is not sacrificed for ease and speed of hitching. The Fast-Hitch can be made rigid or free-floating, horizontally, vertically, or in both directions. Raising and lowering of the implement is accomplished with a hydraulic cylinder. Depth adjustment is controlled by an adjustable stop on the Tel-A-Depth quadrant. Leveling of the hitch is done manually with a crank-type adjusting screw.

Traction Control is accomplished entirely by mechanical means. A linkage system operated by the draft load causes the cylinder to apply an upward thrust on the rockshaft. The reaction of this force puts additional weight on the rear wheels of the tractor thus reducing wheel slippage. As the operator lifts up on the traction control handle, loading of the rear wheels is increased. In all settings of the traction control handle, the amount of weight transferred to the rear wheels increases in direct proportion to the draft load, thus increasing traction only as needed.

A slip-in type drawbar, furnished as regular equipment with the Fast-Hitch, is quickly and easily attached when trailing implements are to be used.

DESCRIPTION



Illust. 2
Principal parts.

TEL-A-DEPTH SYSTEM

The Tel-A-Depth system consists of a Tel-A-Depth valve, a Tel-A-Depth handle and quadrant, rod-type follow-up linkage, hydraulic hoses, a double-action check valve and necessary attaching and connecting parts.

When the Tel-A-Depth handle is moved, it changes the position of the walking beam and linkage, which opens the Tel-A-Depth valve port, allowing fluid to flow to the cylinder. The movement of the cylinder piston forces the rockshaft to turn.

This action moves the follow-up linkage from the rockshaft to the walking beam and closes the Tel-A-Depth valve port completing the hitch movement called for by movement of the Tel-A-Depth handle.

The result of the movement of this system is to keep the positions of the Tel-A-Depth handle and hydraulic cylinder piston properly coordinated.

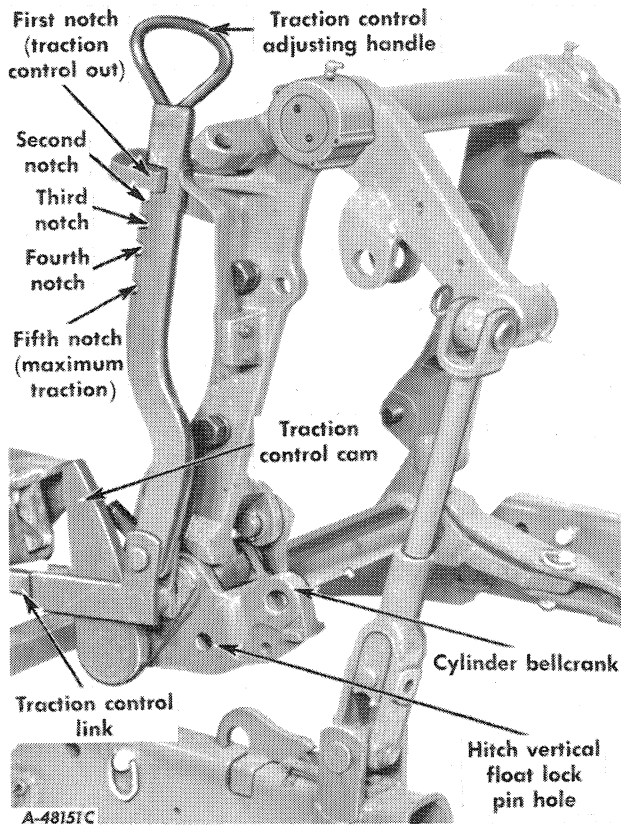
TRACTION CONTROL ADJUSTING HANDLE

For International 340, 460, and 460 Diesel Utility Tractors the traction control handle has five notches. See Illust. 3. In the first or top notch traction control is inoperative. The second, third, and fourth notches are intermediate traction control positions. The fifth notch permits maximum traction control.

For Farmall 340 and International 460 Hi-Utility Series Tractors the traction control handle has four notches. In the first or top notch traction control is inoperative. The second and third notches are intermediate traction control positions. The fourth notch permits maximum traction control.

The draft load of the implement converted to down pressure on the tractor wheels can be varied by changing the setting of the traction control adjusting handle.

DESCRIPTION



Illust. 3
Traction control adjusting handle.

Use as little traction control as needed to keep wheel slippage to a minimum.

HITCH SOCKETS

The implement attaching sockets are flexibly mounted on the hitch bail so they can either pivot vertically or be pinned rigidly as desired.

When used in the hinged position, they provide flexibility that will permit moldboard plows, disk plows, and other tools to enter the ground more quickly and to maintain a more uniform working depth in fields of uneven contour. Leaf springs hold the hinged sockets so they will line up with the implement prongs when attaching.

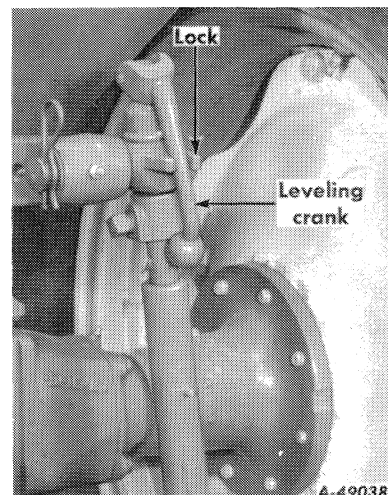
HYDRAULIC CYLINDER

The Fast-Hitch is operated by a single 3-1/2 x 8-inch hydraulic cylinder.

The hydraulic cylinder is attached to the cylinder bellcrank. The cylinder piston rod is pinned directly to the rockshaft. The adjustable stop (Illusts. 6 and 7) on the Tel-A-Depth quadrant is set by the operator to control the retracted cylinder length and is used in returning the implement to the same working position when re-entering the field after turning or after changing working position. The new Tel-A-Depth valve provided with the Fast-Hitch is designed to give finer adjustment to the cylinder.

LIFT LINKS AND LEVELING CRANK

The lift links are used to raise or lower the hitch sockets. The right lift link incorporates the leveling screw which is adjusted by means of the leveling screw crank. The



Illust. 4
Leveling screw in locked position.

leveling screw crank is turned to obtain the desired position of the hitch sockets relative to one another. A leveling screw lock is provided to prevent the leveling screw from working down when operating implements in the field.

The right lift link is made "rigid" or "free-to-float" by the position of the float lock-out collar. The left lift link is made "rigid" or "free-to-float" by the position of the float lock-out pin.

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