

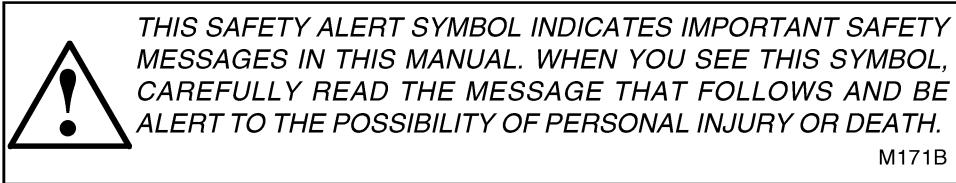
**Two-Point Fast-Hitch
Tel-A-Depth (Rod-Type Linkage)
and Traction Control for
Farmall 460 and 560 Tractors**

Operators Manual
Setup Instructions

1014181R4

Reprinted




CASE III



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®

460 and 560

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 or McCormick-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 for 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

- 375 011 R91 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors.
- 375 020 R91 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors.

ADDITIONAL PARTS

Where applicable, the following packages and parts 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.
- 374 988 R1 Belt pulley control rod support bracket --for tractors with side-mounted belt pulley.

Farmall 460, 460 Diesel, and 460 LP Gas Tractors

- 374 095 R91 For tractors with serial numbers below 8592-- Rear manifold service package (includes rear manifold, seat support tray, rear manifold clamp, junction block spacer, electrical break-away connector socket spacer, rear manifold spacer, and cap screws).
- 370 920 R1 For tractors with serial numbers below 5904 -- Control shaft carrier O-ring.
- 373 258 R1 For tractors with serial numbers below 5904 -- Control shaft carrier O-ring retaining sleeve.

Farmall 560, 560 Diesel, and 560 LP Gas Tractors

- 374 096 R91 For tractors with serial numbers below 13 666 and between 13 866 and 13 900 -- Rear manifold service package (includes rear manifold, seat support tray, rear manifold clamp, junction block spacer, electrical break-away connector socket spacer, rear manifold spacer, and cap screws).
- 370 920 R1 For tractors with serial numbers below 9180 -- Control shaft carrier O-ring.
- 373 258 R1 For tractors with serial numbers below 9180,-- Control shaft carrier O-ring retaining sleeve.

ORDERING NUMBERS

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

*375 010 R91 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors.

*375 019 R91 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors.

*Note: The hydraulic power supply 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 with planetary-type independent power take-off or torque amplifier.

370 902 R92 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

370 904 R92 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

370 988 R92 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

370 990 R92 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

For tractors with clutch-type independent power take-off or torque amplifier.

373 727 R92 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

373 728 R92 For Farmall 460, 460 Diesel, and 460 LP Gas Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

373 737 R92 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors (includes 12 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

373 738 R92 For Farmall 560, 560 Diesel, and 560 LP Gas Tractors (includes 17 gallon-per-minute internally-mounted pump, manifold assembly, tandem-type fluid filter assembly, brackets, clamps, etc.).

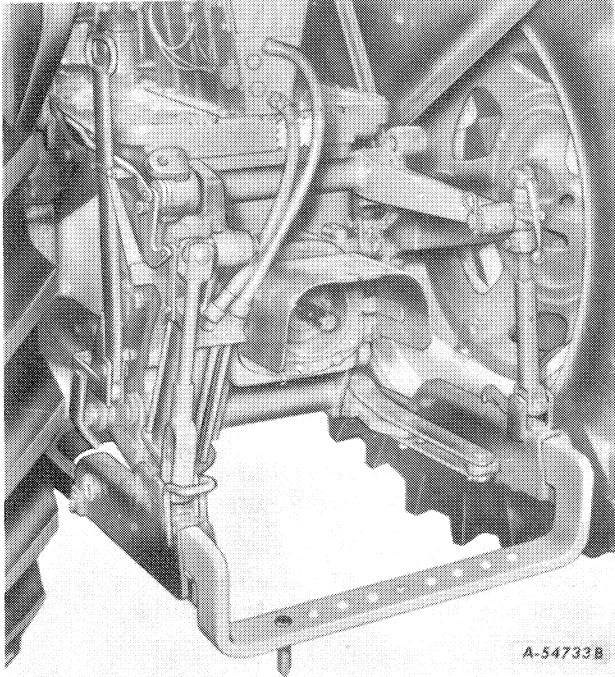
ADDITIONAL PARTS

Where applicable, the following package or part must be ordered:

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

374 988 R1 Belt pulley control rod support bracket -- for tractors with side-mounted belt pulley.

INTRODUCTION



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.

The operation and appearance of both Fast-Hitch attachments is the same on all tractor models listed but the units are not interchangeable due to the difference in the width of the rear frames of the tractors.

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.

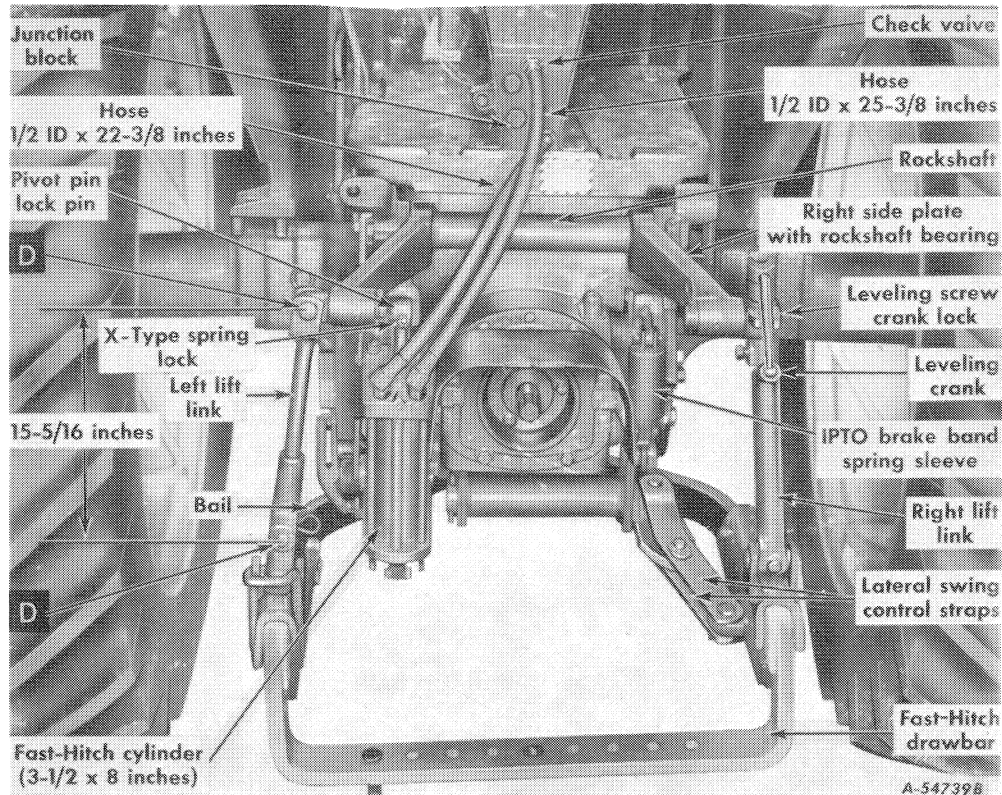
Most controls are built into the hitch rather than on each implement. The Fast-Hitch mounting frame is common for all implements and remains on the tractor. This practice eliminates the need for separate, special pieces formerly required for each implement. This, in turn, keeps the customer's initial 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 the implement is accomplished with a hydraulic cylinder. Depth adjustment is controlled by use of an adjustable stop on the Tel-A-Depth quadrant.

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, except the first or top notch, 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 bellcrank and linkage, opening the Tel-A-Depth valve port, which allows the 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 bellcrank and closes the Tel-A-Depth valve port, completing the hitch movement called for by the 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 the hydraulic cylinder properly co-ordinated.

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. 5 and 6) 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.

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 which will permit moldboard plows, listers, disc 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.

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