

# Hydraulic Folding Marker Multiple Hitched Grain Drills

Operators Manual

8-61112

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.**

M171A

## IMPORTANT

If This Machine Is Used By An Employee Or Is Loaned Or Rented, Make Certain That The Operator(s), Prior To Operating:

1. Is Instructed In Safe And Proper Use.
2. Reviews And Understands The Manual(s) pertaining To The Machine.

TO THE OWNER

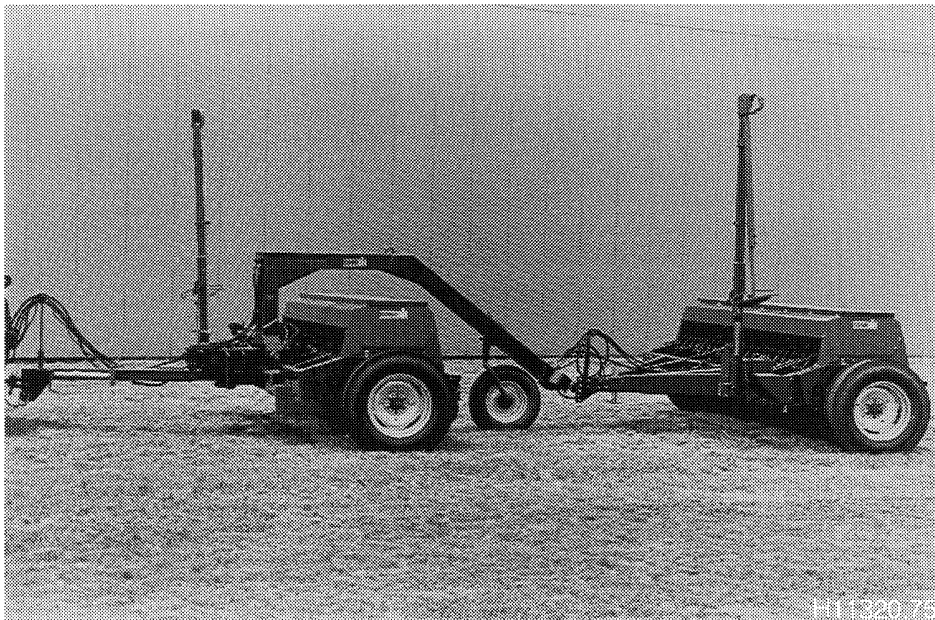
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## TO THE OWNER OF A CASE IH HYDRAULIC FOLDING MARKER

Read this manual before you operate your hydraulic folding marker. If you need more information, see your Case IH dealer.

Your dealer can give you assistance with J I Case Company approved service parts. Your dealer has technicians with special training that know the best methods of repair and maintenance for your hydraulic folding marker.

Call your dealer if you need any assistance or information.



**NOTE:** *When you are behind the drill looking forward, the right hand and left hand markers are the same as your right hand and left hand.*

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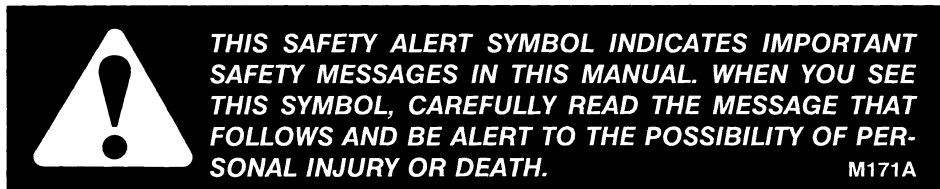
## SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate the machine. Know the positions and operations of all controls before you try to operate this machine. **MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.**

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has a limit.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

J I Case is continuing to work for your safety by making machines with better protection and by giving these rules for safe operation.



### Safety Rules



Before transporting, be sure the markers are up and secured with transport lock pins to prevent personal injury to operator or bystanders. R200

Avoid injury from the disks when the drill is not in use by locking the markers in the transport position, or by removing the disks. R217

Contact with overhead power lines can cause severe electrical burns or death from electrocution. Make sure there is enough clearance between the machine and overhead power lines. R182

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.

To Prevent Personal Injury:

Relieve all pressure, before disconnecting fluid lines.

Before applying pressure, make sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure.

Use a piece of cardboard or wood for this purpose.

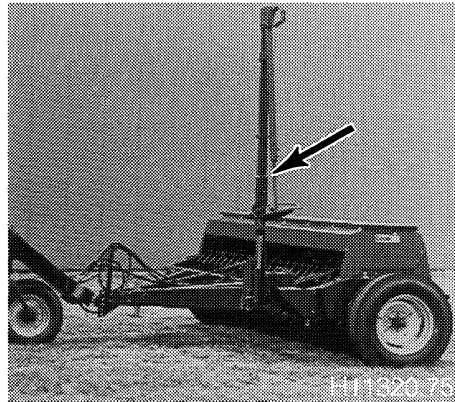
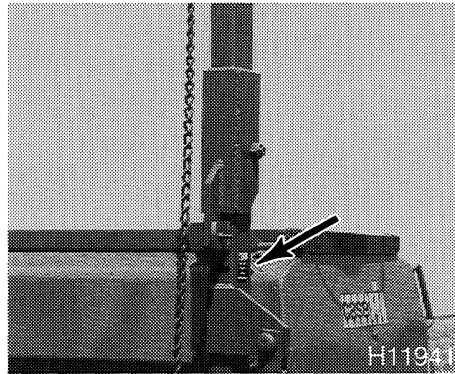
If injured by leaking fluid, see your doctor immediately. R149A

## Decals

**IMPORTANT:** *Install new decals if the old decals are destroyed, lost, painted over or can not be read. When parts are replaced that have decals, make sure you install a new decal with each new part.*

**NOTE:** *New decals are available from your dealer or write to:*

*J I Case Company  
Customer Relations Department  
700 State Street  
Racine, Wisconsin 53404*



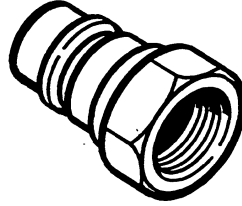
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## TRACTOR AND MARKER CONNECTION

### Hydraulic Couplers

Quick couplers for connecting to the tractor remote hydraulic system are not included with the drill.

Case IH tractors are equipped with ASAE S366 standard female couplings. These couplings will fit standard male hose couplers made to ASAE S366, SAE J1036 or ISO 5675-1981.



ASAE MALE COUPLER

Your Dealer can supply the following ASAE standard male couplers as required for your application.

520L9

1. Part Number 1272399C\*, 7/8-14 UNF SAE standard thread
2. Part Number 1285718C\*, 3/4-16 UNF SAE standard thread
3. Part Number 1272770C\*, 1/2-14 NPTF threads

For best performance the use of the above couplers is recommended. The use of inferior male couplings can cause flow checking, chatter, increased pressure drop or physical damage to the female coupler.

See your Dealer for the correct coupler for your application.



**Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.**

**To Prevent Personal Injury:**

**Relieve all pressure, before disconnecting fluid lines.**

**Before applying pressure, make sure all connections are tight and components are in good condition.**

**Never use your hand to check for suspected leaks under pressure.**

**Use a piece of cardboard or wood for this purpose.**

**If injured by leaking fluid, see your doctor immediately.**

M149A

## OPERATING INSTRUCTIONS \_\_\_\_\_

### GENERAL

#### Preparing the Drill with Marker for Operating

It is important that all parts be properly adjusted and working freely before starting to plant.

Bolts, nuts and set screws must be kept tight; spread all cotter pins to keep them from falling out.

After eight hours of operation, and periodically thereafter, check all bolts and other pins. Retighten and secure if necessary.

**NOTE:** *If the drill electrical system is connected to an electrical source that is always electrically "LIVE" (with or without key in run position) do the following:*

*Lower the drill to the ground and move the marker switch to the OFF position before stopping the tractor engine.*

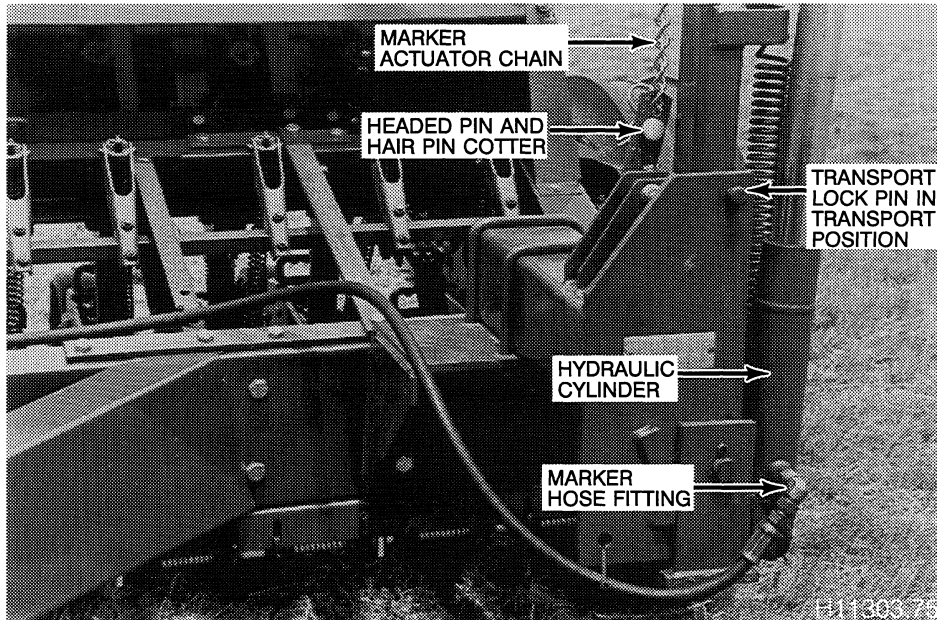
OR

*Disconnect the drill from the tractor wiring harness after stopping the tractor engine.*

*This is necessary to prevent electrical drain on the tractor batteries.*



## MARKER PREPARATION



Before the markers can be operated for the first time, the marker hydraulic cylinders and hoses must be filled with hydraulic fluid. To fill the marker hydraulic system do the following:

1. Remove the transport lock pins from the markers and carefully manually lower the markers to the ground.
2. Use the remote control lever to raise the markers. Hold the control lever until the markers are completely raised.

**NOTE:** *If the markers do not operate correctly and all electrical and hydraulic connections are correct, check for air in the hydraulic system. Bleed the air from the hydraulic system as necessary.*

### Bleeding the Hydraulic System

To bleed the hydraulic system, loosen the marker hose fitting on the marker lift cylinder. Move the drill remote control lever rearward allowing oil and air to escape. Hold the lever rearward until the oil is free of air bubbles. Tighten the marker hose fitting. Raise the markers and install the transport lock pins in the transport position on each marker.

### Marker Actuator Chain

The marker actuator chain must be taut when the marker is in the upright position. Adjust the chain length as necessary at the key hole slot in the chain guide. Secure the chain with the headed pin and hair pin cotter.

## OPERATING INSTRUCTIONS

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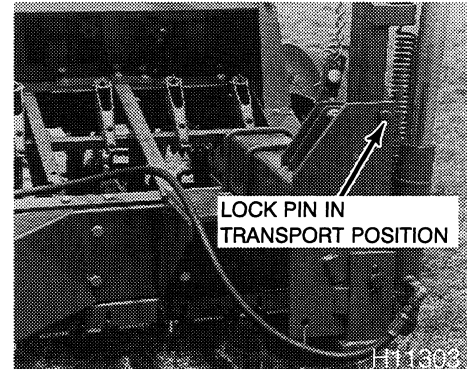
### MARKER OPERATION

#### Single Marker with Hydraulic Selector

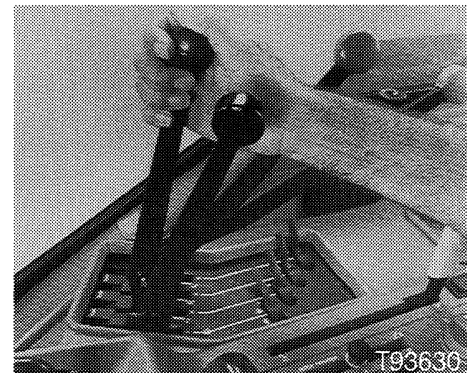
Two remote control hydraulic circuits are required to operate the drill and marker.

One remote circuit is used to raise and lower the drill and to raise the marker. When the drill is raised, the lowered marker will also raise.

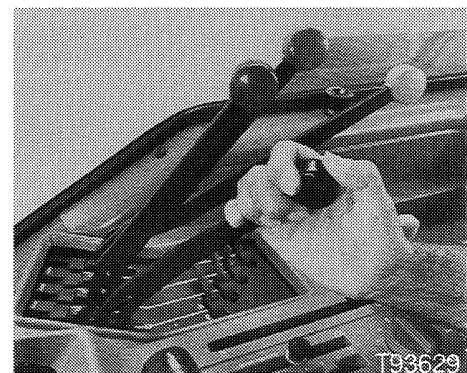
To operate the marker, remove the transport lock pin from the marker. Put the lock pin in the storage position.



To lower the marker, move the marker remote hydraulic control lever forward until the marker is completely lowered and the hydraulic cylinder is completely retracted. After the marker is lowered, move the remote control lever to the neutral position to allow the marker to float and follow the contour of the ground.



To raise the drill and the lowered marker, move the drill remote control lever rearward until the drill and marker are completely raised.



## OPERATING INSTRUCTIONS

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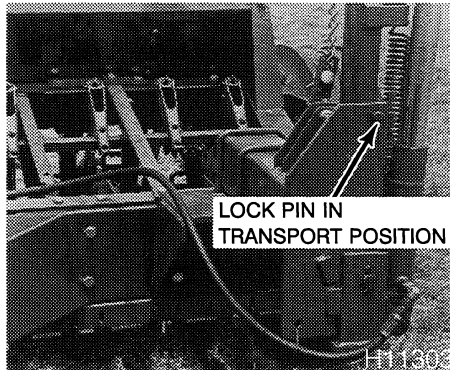
### Dual Markers with Hydraulic Selector

Two remote control hydraulic circuits are required to operate the drill and markers.

One remote circuit is used to raise and lower the drill and to raise the marker(s). When the drill is raised the marker(s) that is lowered will also raise.

The other remote circuit is used to lower the markers. Moving the control lever in one direction will lower one marker. Moving the control lever in the other direction will lower the other marker.

To operate the markers, remove the transport lock pin from both markers. Put the lock pins in the storage position.



To lower a marker, move the marker hydraulic remote control lever forward or rearward to lower the desired marker. Hold the control lever in position until the marker is completely lowered and the hydraulic cylinder is completely retracted. After the marker is lowered, move the remote control lever to the neutral position to allow the marker to float and follow the contour of the ground.



## OPERATING INSTRUCTIONS

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To raise the drill and the lowered marker, move the drill remote control lever rearward until the drill and marker are completely raised.



### Lowering Both Markers

For opening a field, both markers can be lowered to provide marks to be followed on succeeding passes of the drills. To lower both markers, move the marker hydraulic remote control valve lever in either direction to lower the first marker. When a marker is fully lowered and the hydraulic cylinder is completely retracted, move the marker hydraulic remote control valve lever in the opposite direction to lower the other marker. After markers are lowered, move the marker hydraulic remote control valve lever to the Neutral position. When both markers are lowered, they will follow the ground contour using the marker built in float system.

When raising the drill with the drill hydraulic remote control valve, both markers will be raised with the drill.

## OPERATING INSTRUCTIONS

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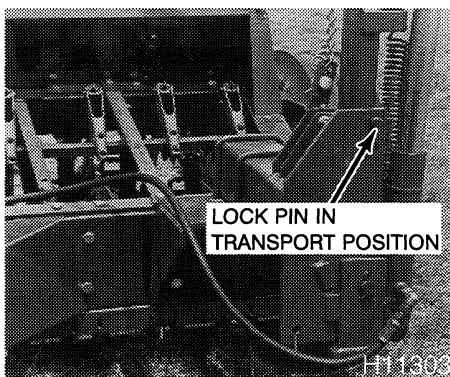
### Dual Markers with Electric Selector

One remote control hydraulic circuit is required to operate the drill and markers when equipped with electric selector.

When the selector switch is in the right or left position the designated marker will raise and lower when the drill is raised and lowered. When the selector switch is in the OFF position, the markers will not operate.

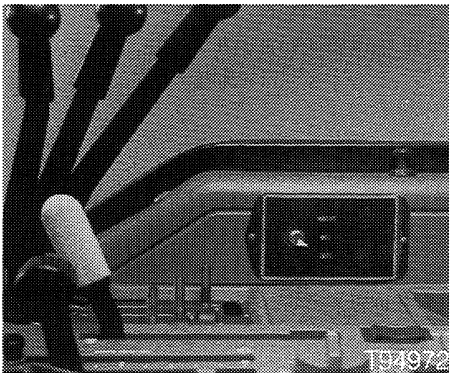
**NOTE:** *If a marker is lowered, the selector switch must indicate that marker in order for the marker to raise when the drill is raised.*

To operate the markers, remove the transport lock pin from both markers. Put the lock pins in the storage position.



Use the electric selector switch to indicate the left or right marker as desired.

**NOTE:** *When the switch is in the OFF position, both markers will remain in the raised position when the drill is lowered.*



## OPERATING INSTRUCTIONS

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To lower the drill and the designated marker, move the hydraulic remote control lever forward until the marker is completely lowered and the marker cylinder is completely retracted. After the marker is lowered, move the control lever to the neutral position to allow the marker to float and follow the contour of the ground.



To raise the drill and the lowered marker, move the hydraulic remote control lever rearward until the drill and marker are completely raised.

**NOTE:** *The electric selector switch must indicate the lowered marker in order for the marker to raise when the drill is raised.*



### Lowering Both Markers

For opening a field both markers can be lowered to provide marks to be followed on succeeding passes of the drill. To lower both markers, put the electric selector switch in either the Right or Left position. Move the remote control lever forward to lower the indicated marker. When the marker is completely lowered and the cylinder is completely retracted, move the electric selector switch to the other position. Continue to hold the remote control lever forward until the other marker is completely lowered and the cylinder is completely retracted.

When raising the drill with the hydraulic remote control lever, the marker lowered last will be raised with the drill. When that marker is fully raised move the switch to the other position and continue to hold the remote control lever rearward until that marker is fully raised.

If marker switch is in off position, both markers will remain in raised position when drill is lowered.

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