Installation Instructions



Three-Point Drill Flat-Fold Markers

Used with:

- 3PD27 and 3PD30
- 3PD15 and 3PD20 (Old-Style Drill)

5. On 20-foot drills, mount support arm (14) at dimension shown using clamp plates (10),1/2-inch u-bolts (11), hex nuts (12) and lock washers (13).

- Mount support-arm saddle (18) to support arm with 1/2-inch u-bolts (17), lock washers (15) and hex nuts (16). To prevent wear when folded, center saddle under the square tube of second section.
- Adjust support arm and saddle so second section is parallel with seed-box lid when marker is folded.



When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

General Information

These instructions explain how to install the flat-fold markers. These instructions apply to:

113-211A	15-Foot Left-Hand Marker
113-212A	15-Foot Dual Markers
113-208A	20-Foot Left-Hand Marker
113-209A	20-Foot Dual Markers
113-199A	27-Foot Dual Markers
113-195A	30-Foot Dual Markers

Manual Update

Refer to the drill operator's manual for detailed information on safely operating, adjusting, troubleshooting and maintaining the flat-fold markers. Refer to the parts manual for part identification.

- 3PD15 and 3PD20 Parts Manual.....118-365P

Marker Assembly

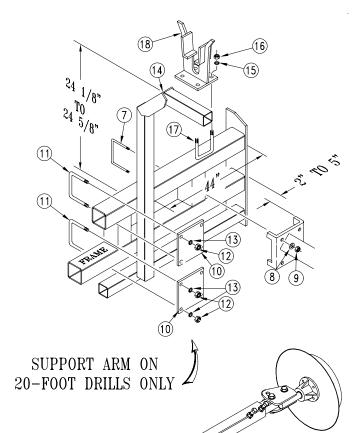
15- or 20-Foot Markers

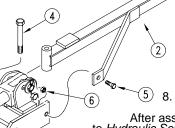
Lower drill into field position. From end of each drill box, allow 9 feet of clearance on a 15-foot drill or 11 feet of clearance on a 20-foot drill for marker assembly.

 Mount first marker section (1) on lower 3 1/2-inch frame tube. Mount marker as close to end of frame as possible. Mount with 5/8-inch u-bolts (7), hex nuts (9) and lock washers (8).

 Remove port plugs from cylinder so you can extend fold cylinder. Unfold first section and lift hinge.

Align holes in second section (2) with holes in lift hinge. Bolt sections together with 5/8-inch bolt (5), lock nut (6), 3/8-inch shear bolt (4) and lock nut (3). Assemble sections so stop block on second section faces up.

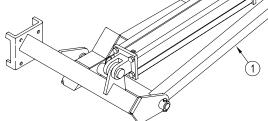




5 8. If necessary, repeat steps to mount other marker.

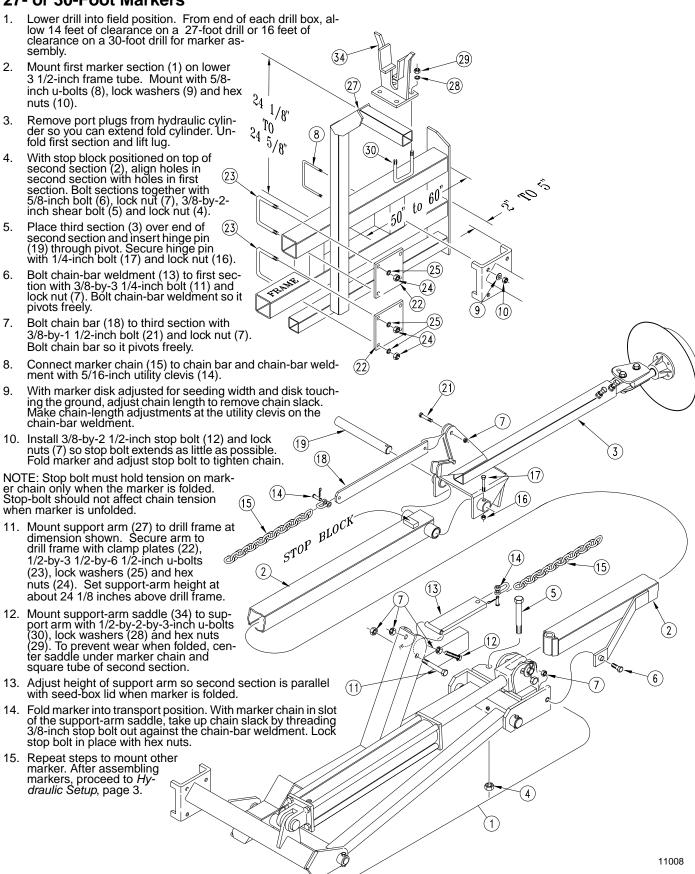
After assembling markers, proceed

to Hydraulic Setup, page 3.



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27- or 30-Foot Markers



Hydraulic Setup



CAUTION!

Folding the markers with air in the system will cause erratic, jerky movement. With air in the system, the markers may crash, causing injury to bystanders. Always bleed the marker cylinders before folding.

- Attach adaptor (1) and elbow fitting (2) to needle valve (3). Attach elbow fittings (2 and 4) to cylinder ports. Attach hoses (5 and 6) to needle valve and elbow fitting. Route hoses down to and along drill frame to center of drill. Use cable ties (7) to keep hoses in place.
- Bleed air out of the hydraulic system.
 - Unpin rod end of cylinder. Support cylinder with a block under cylinder body on the first marker section.
 - Extend and retract the cylinder rod several times to work air out of the system.
 - c. Repin cylinder with clevis pin, cotter pin and flat washers.
- 3. Using needle valve, adjust marker folding speed to a slow setting.
- Fold marker up and down a few times and check for pinching and kinking of hoses. Reposition hoses if necessary.

