Installation Instructions
Connecting the MonTag Unit

Used with Fertilizer Applicator models:
- NP4000
- NP2540

General Information

Refer to Figure 1
These instructions explain how to connect the MonTag nurse tank to the NP4000/NP2540 fertilizer applicator. The kit adds hoses, hose supports and guides, as well as mounted and floating diffusers. Two different size hoses and hose clamps are supplied by MonTag.

One kit updates one entire applicator:

<table>
<thead>
<tr>
<th>Kit</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>417-516A</td>
<td>NP4000 16R MONTAG DRY KIT</td>
</tr>
</tbody>
</table>

Tools Required:
- Basic hand tools, including large socket set and wrench.

Note: Two or more people may be required to complete this assembly.

Notations and Conventions

Call-Outs

1 to 9 Single-digit callouts identify components in the currently referenced Figure. These numbers may be reused for different items from page to page.

11 to 31 Two-digit callouts in the range 11 to 31 reference new parts from the list on page 7.

51 to 58 Two-digit callouts in the range 51 to 58 reference existing parts.

Prepare the Applicator

1. Move the applicator to a location with adequate lighting, and a clear surface beneath for recovery of any falling parts.
3. Install all locks or supports necessary to support the applicator while it is being worked on.
4. Shut off any tractor used to position the applicator.
Install Hitch

Refer to Figure 2
Select new:
11 407-721H DROP HITCH WELDMENT
12 806-016C U-BOLT 5/8-11 x 6-1/32 x 5
13 804-022C WASHER LOCK SPRING 5/8 PLT
14 803-021C NUT 5/8-11 PLT

If the hitch has not been factory- or dealer-installed, center the drop hitch weldment (11) evenly on the frame between and below the tow warning plate and insert the U-bolts (12) around the frame and through the bolt holes. Fasten with washers (13) and nuts (14).

Refer to Figure 3
Select new:
15 417-373H MONTAG HITCH WELDMENT
16 806-128C U-BOLT 3/4-10 x 6-1/32 x 5
17 804-023C WASHER LOCK SPRING 3/4 PLT
18 803-027C NUT HEX 3/4-10 PLT

Position the MonTag hitch weldment (15) on the end of the drop hitch weldment (11). Insert U-bolts (16) through the bolt holes and fix with washers (17) and nuts (18).

Install Electrical Harness Bracket
Refer to Figure 4
Select new:
19 417-357D REAR HITCH ACCESSORY MOUNT
20 806-069C U-BOLT 1/4-13 x 4-1/32 x 7
21 804-015C WASHER LOCK SPRING 1/2 PLT
22 803-020C NUT HEX 1/2-13 PLT

Position rear hitch accessory mount (electrical harness bracket) (19) on right arm of MonTag hitch weldment (11). Insert U-bolt (20) through the bolt holes and fix with washers (21) and nuts (22).

Install Hitch Balls
Refer to Figure 5
Insert the two hitch balls (1) from your MonTag cart into the pre-drilled hitch mount holes. Install the nuts (2) and tighten firmly.
Install Hose Guides & Brackets

Hose Guides

Install Rear Hose Supports

Select new:

- 417-512H REAR HOSE SUPPORT
- 806-022C U-BOLT 3/8-16 x 6-1/32 x 5
- 804-013C WASHER LOCK SPRING 3/8 PLT
- 803-014C NUT HEX 3/8-16 PLT

Refer to Figure 6

Position frame hose supports 23 approximately 6 inches on either side of the drop hitch weldment 11. Insert U-bolt 25 through the bolt holes and fix with washers 26 and nuts 28.

Install Diffuser Brackets

Refer to Figure 7

Select new:

- 417-483D DIFFUSER MOUNT
- 890-522C MUFFLER CLAMP 2.50 SIZE
- 804-006C WASHER LOCK SPRING 1/4 PLT
- 803-006C NUT HEX 1/4-20 PLT
- 806-022C U-BOLT 3/8-16 x 6-1/32 x 5
- 804-013C WASHER LOCK SPRING 3/8 PLT
- 803-014C NUT HEX 3/8-16 PLT

Place diffuser mounts 27 on frame in approximate locations indicated. Refer to Figure 8.

Use U-bolts 24 to attach diffuser mounts 27 to frame.

Install diffuser 1 on bracket with muffler clamp 28 (not visible) washers 29, nuts 30 and tighten.

Once you are ready to install hoses:

Place a clamp 2 over the end of the tine hose 3 and slip end of hose over lower end of diffuser 1.

Place a clamp 4 over the end of the feed hose 5 and slip over the upper end of each diffuser as shown in Figure 8 and tighten.
Install Long and Short Hose Guides

Select new:

- 31 417-513H HOSE SUPPORT
- 32 806-514H HOSE SUPPORT LONG
- 34 806-022C U-BOLT 3/8-16 x 6-1/32 x 5
- 35 804-013C WASHER LOCK SPRING 3/8 PLT
- 36 803-014C NUT HEX 3/8-16 PLT
- 33 417-484D HOSE PIN
- 34 805-143C PIN HAIR COTTER.120 PLT

Refer to Figure 8

Place the diffuser mounts 1 approximately in the positions shown. Place the hose supports 31 and long hose supports 32 on the frame approximately as shown and fix with the U-bolts, washers and nuts.

Install as indicated in Figure 9 using U-bolts, washers and nuts.

Slide hose pin 33 through top of each hose support and insert cotter pin 34 in hole at each end of hose pin.

Run hoses from plenum through the machine.
Install Hoses from Diffuser to Fertilizer Arm

Refer to Figure 9
Cut each piece of the smaller-diameter hose ① supplied with the kit to fit. Length should be adequate to extend from the end of the diffuser to the fertilizer arm ②, with enough extra to allow for flex with unit movement in the field. Slip a clamp ③ over the end of the hose and slide hose over the end of the fertilizer arm ②. Tighten clamp.

Install Hoses to Plenum

Refer to Figure 10
Using the large-diameter hose ① supplied with the kit, measure and cut to length each hose so that it will extend from the plenum ② to its intended diffuser. Ensure that the length cut is long enough to flex with unit movement in the field.

Connect each hose ① to plenum ②, then run through hose guides to the vent air release (diffuser). Use the smaller-diameter hose to connect diffuser to the fertilizer arm.

Slide a hose clamp ③ over the end of each hose ① and connect one end of each hose to the plenum ② mounted on the MonTag tongue.

Install Floating Diffusers

Refer to Figure 11
Select new:
DIFFUSERS
HOSES
CLAMPS

Once the mounted diffusers are in place, connect and run a large-diameter hose from the plenum, to where each of the floating diffusers ① will be located.

Install clamps ② and hoses ③ as in the previous steps.

Install the smaller-diameter hose ④ on the end of the diffuser to the fertilizer arm and attach as in previous steps.
Install Harness

General Harness Guidelines

Refer to Figure 12

- Left and Right are facing forward in the direction of drill field motion.
- Before installing any cable ties, uncoil and dress the cable assemblies across the drill and to the hitch. This assures that the cables are correctly oriented left/right.
- Keep cables clear of moving parts and pinch points.
- Keep cables clear of sharp edges (or protect edges).
- Allow slack at hinge points, or route the cable so that it passes through the hinge axis.
- Evaluate routing and attachment points. Ample ties are provided for most situations.
- Leave a little slack between attachment points. A cable stretched taut could be damaged by normal temperature swings.
- Where excess cable exists, plan a location for coiling it up and securing it. Having the coil near the hitch provides flexibility if any later troubleshooting is required.

Harness Installation

Select new:

- 29 804-006C WASHER LOCKSPRING 1/4 PLT
- 30 803-006C NUT HEX 1/4-20 PLT
- 35 802-005C HHCS 1/4-20 x 1 GR5
- 35 833-719C DUAL MACHINE HARNESS LED

Attach the female, 7-pin connector ① to the harness bracket ① with the hex screw ⑤, washers ⑤ and nuts ⑩.

Find the lighting module ③ in the center of the middle frame. Disconnect the module from the existing light harness wishbone.

Insert this male connector ③ from the enhanced lighting module into the female socket of the LED harness ⑤.

Insert the male connector of the LED harness into the female socket ⑤ to complete the installation.
### Part Lists

#### New Parts

The part call-out numbers in this list match all Figures in these installation instructions. Part descriptions match those in your updated Parts Manual.

Quantities are units (“ea”).

#### Kit Contents

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<th>Part Number</th>
<th>Part Description</th>
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