



# Spray Gun Kit for Multi-Pro® 1200/1250 Turf Sprayers and Workman® 200 Spray Systems

Model No. 41133—Serial No. 250000001 and Up

Form No. 3352-886 Rev B

## Installation Instructions

# Installation

**Important** You will need to purchase Teflon tape before installing this kit. The tape is used to wrap threads of fittings before assembly. Threads should be wrapped from left to right, starting at the base and traveling to the tip of fitting (if looking down the axis of a fitting, tape should be wrapped clockwise from back to front).

**Note:** A non-petroleum based lubricant, such as vegetable oil, will be required for the installation of this kit.

**Note:** Determine the left and right sides of the machine from the normal operating position.

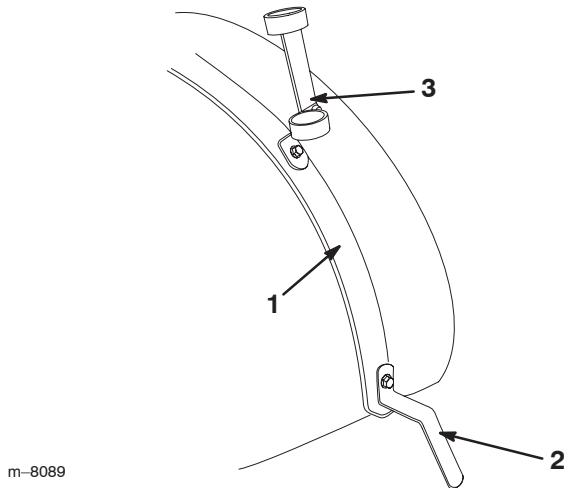
| Description                                 | Qty. | Use                       |
|---------------------------------------------|------|---------------------------|
| Hose hook, single bend                      | 1    | Install the hose hooks    |
| Spray gun bracket                           | 1    |                           |
| Carriage bolt, 5/16 x 3/4 inch              | 2    |                           |
| Flange nut, 5/16 inch                       | 2    |                           |
| Control valve                               | 1    | Install the control valve |
| Control valve bracket                       | 1    |                           |
| Phillips screw                              | 2    |                           |
| Support bracket (for Multi-Pro Sprayers)    | 1    |                           |
| Support bracket (for Workman Spray Systems) | 1    |                           |
| Flange-head bolt, 1/4 x 3/4 inch            | 4    |                           |
| Flange nut, 1/4 inch                        | 4    |                           |
| Tee assembly                                | 1    |                           |
| Pressure gauge                              | 1    |                           |
| Barbed fitting, 1/2 inch                    | 1    |                           |
| Retainer                                    | 1    |                           |
| Hose, long                                  | 1    | Install the spray gun     |
| O-ring                                      | 1    |                           |
| Spray gun                                   | 1    |                           |
| Hose clamp, small                           | 1    |                           |

## Preparing the Machine

Ensure that the machine is empty of all fluids. If chemicals have been used in the machine, flush the system thoroughly with clean water; refer to your vehicle *Operator's Manual* for instructions.

### Installing the Hose Hooks on a Multi-Pro 1200/1250 Sprayer

1. Remove the fasteners securing the right side of the front tank strap (Fig. 1).



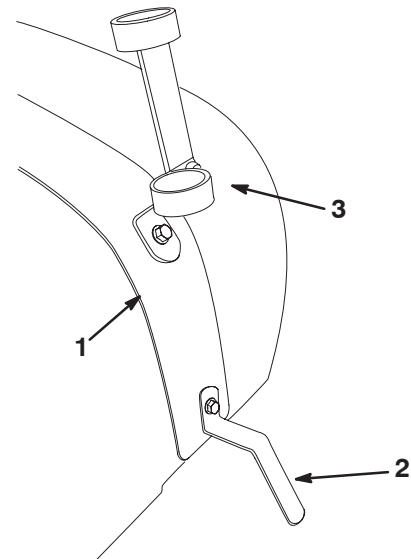
**Figure 1**

- |                           |                      |
|---------------------------|----------------------|
| 1. Tank strap             | 3. Spray gun bracket |
| 2. Hose hook, single bend |                      |

2. Install the hose hook and spray gun bracket as shown in Figure 1, using 2 carriage bolts (5/16 x 3/4 inch) and flange nuts (5/16 inch).
3. Secure the tank strap using the fasteners you removed previously.

### Installing the Hose Hooks on a Workman 200 Spray System

1. Remove the fasteners securing the right side of the front tank strap (Fig. 1).



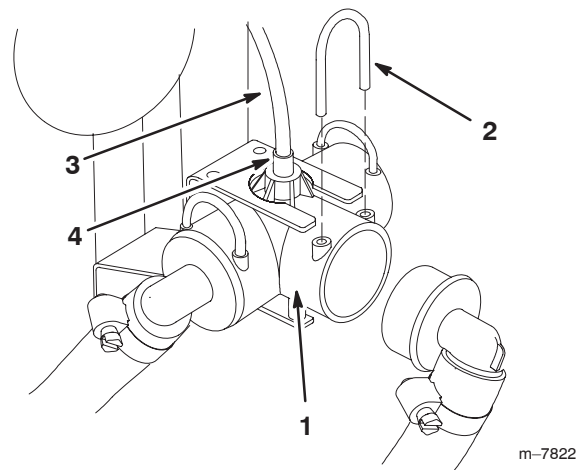
**Figure 2**

- |                           |                      |
|---------------------------|----------------------|
| 1. Front tank strap       | 3. Spray gun bracket |
| 2. Hose hook, single bend |                      |

2. Install the hose hook and the spray gun bracket as shown in Figure 2, using 2 carriage bolts (5/16 x 3/4 inch) and flange nuts (5/16 inch).
3. Secure the tank strap using the fasteners you removed previously.

### Installing the Control Valve

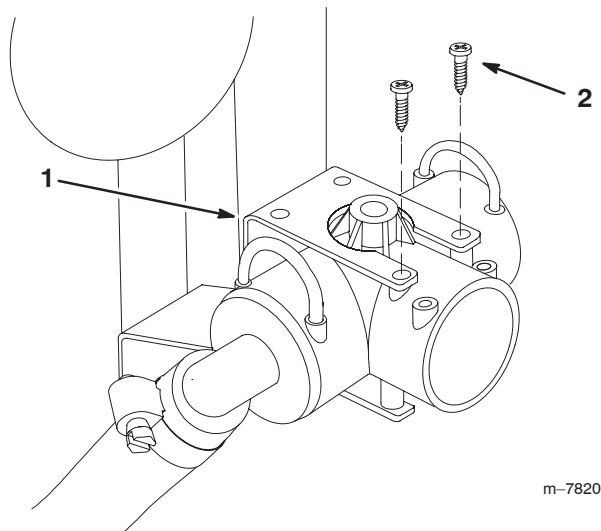
1. Remove hose retainer to disconnect the boom hose from the supply tee (Fig. 3).



**Figure 3**

- |                  |                        |
|------------------|------------------------|
| 1. Supply tee    | 3. Pressure gauge tube |
| 2. Hose retainer | 4. Tube fitting        |

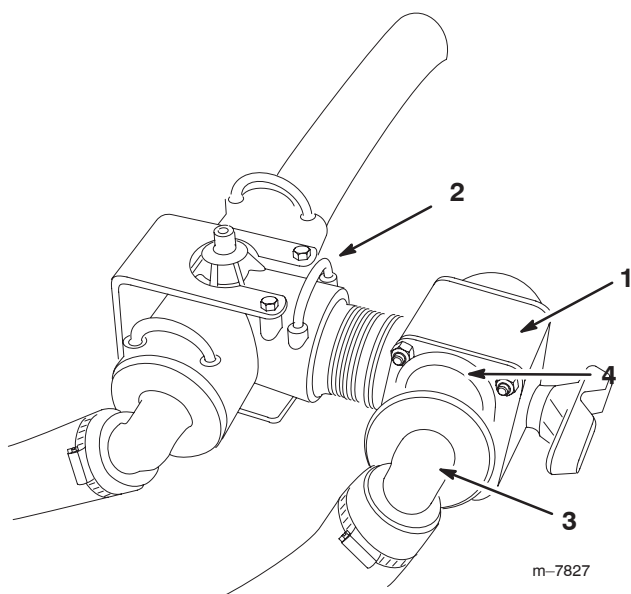
2. On a Multi-Pro 1200 Sprayer, disconnect the small red pressure gauge tube from the green tube fitting on top of the supply tee (Fig. 3). To disconnect, press down on the tube fitting while pulling up on the tube.
3. Remove the two bolts securing the supply tee to the mounting bracket (Fig. 4). Remove the supply tee and hoses.



**Figure 4**

1. Supply tee mounting bracket
2. Bolts

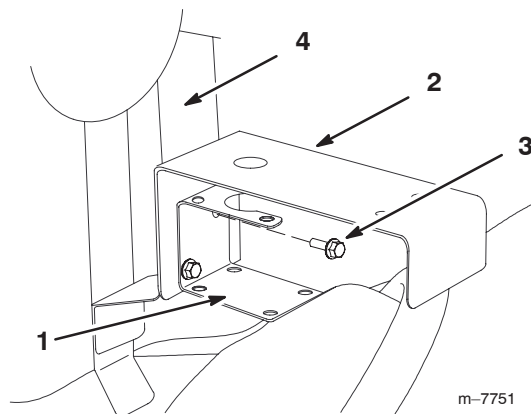
4. Install the new control valve into the open port on the supply tee and secure it with a new retainer (Fig. 5).



**Figure 5**

1. Control Valve
2. Retainer ring, new
3. Boom hose
4. Retainer ring, pre-existing

5. Connect the boom hose you disconnected in step 1 to the open port on the control valve and secure it with the retainer you removed in step 1 (Fig. 5).
6. Remove the 2 bolts securing the supply tee mounting bracket to the vehicle. Retain the fasteners.
7. Install the control valve bracket between the supply tee bracket and the vehicle (Fig. 6).



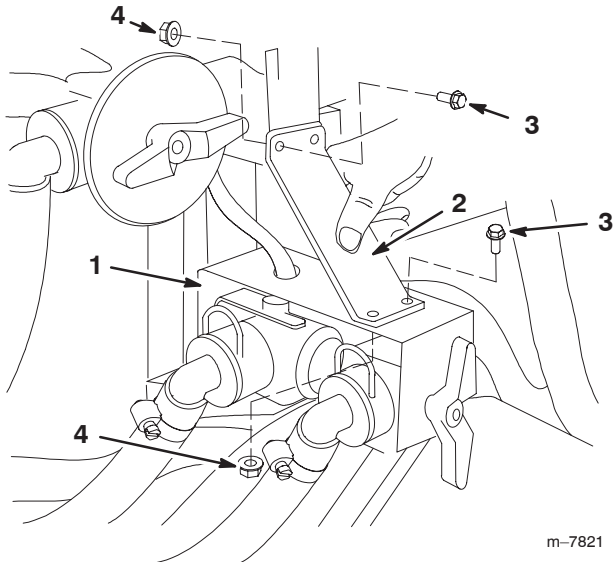
**Figure 6**

1. Supply tee mounting bracket
2. Control valve bracket
3. Bolt
4. Mounting frame

8. Secure the supply tee bracket and control valve bracket to the mounting frame using the bolts you removed in step 6 (Fig. 6).
9. Secure the supply tee bracket and control valve bracket using the bolts you removed in step 3.
10. Secure the control valve to the bracket with two Phillips screws.
11. On a Multi-Pro 1200 Sprayer, push the red pressure gauge tube into the green tube fitting on top of the supply tee.

**12. Install the support bracket as follows:**

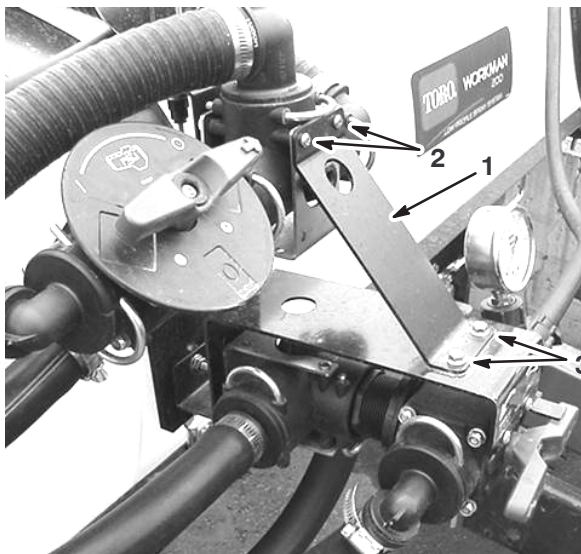
- On a Multi-Pro Sprayer, install the support bracket as shown in Figure 7, using 4 flange-head bolts (1/4 x 3/4 inch) and 4 flange nuts (1/4 inch).



**Figure 7**

- |                          |                                     |
|--------------------------|-------------------------------------|
| 1. Control valve bracket | 3. Flange-head bolt, 1/4 x 3/4 inch |
| 2. Support bracket       | 4. Flange nut, 1/4 inch             |

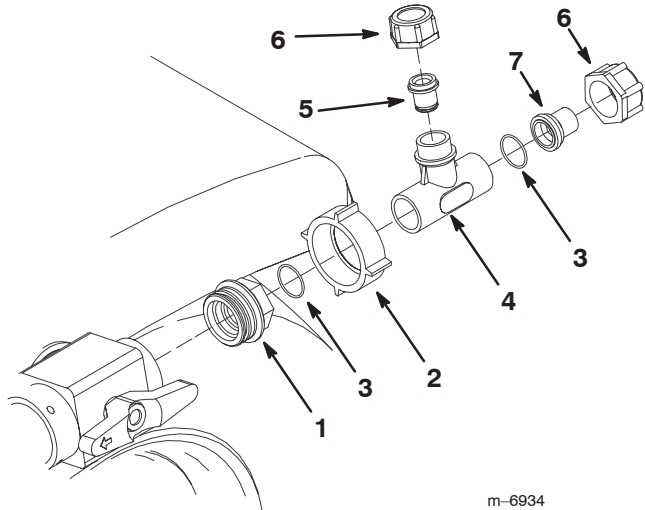
- On a Workman Spray System (Fig. 8), remove the 2 screws securing the upper tee and install the support bracket using the screws, 2 flange-head bolts (1/4 x 3/4 inch,) and 2 flange nuts (1/4 inch).



**Figure 8**

- |                    |                                                              |
|--------------------|--------------------------------------------------------------|
| 1. Support bracket | 3. Flange-head bolt, 1/4 x 3/4 inch and flange nut, 1/4 inch |
| 2. Screws          |                                                              |

**13. Connect the large adapter end of the tee assembly to the control valve (Fig. 9).**



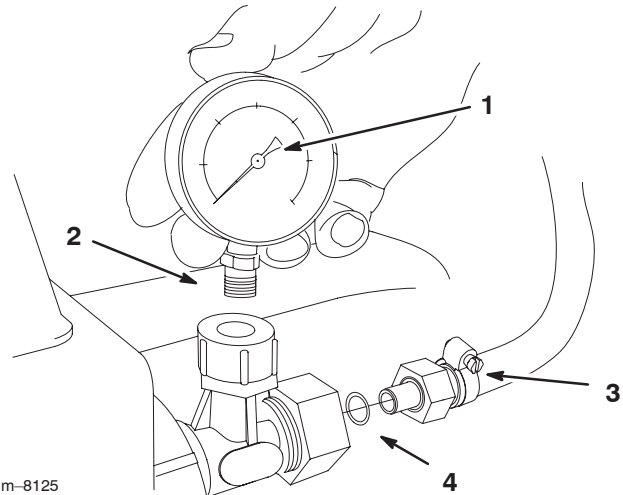
**Figure 9**

Tee assembly shown exploded.

- |                      |                     |
|----------------------|---------------------|
| 1. Adapter           | 5. Reducer assembly |
| 2. Large plastic nut | 6. Plastic nut      |
| 3. Large O-ring      | 7. Reducer nipple   |
| 4. Tee               |                     |

**14. Turn the large plastic nut to secure the tee assembly to the control valve (Fig. 9).**

**15. Wrap Teflon tape counterclockwise around the threads of the gauge (Fig. 10).**

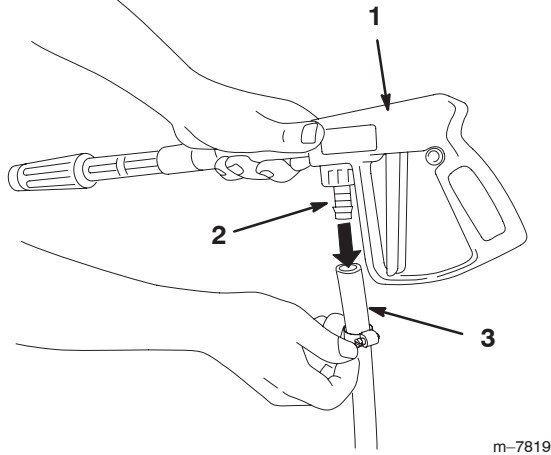


**Figure 10**

- |                    |              |
|--------------------|--------------|
| 1. Pressure gauge  | 3. Long hose |
| 2. Wrapped threads | 4. O-ring    |

**16. Install the pressure gauge into the open port to the right of the control valve (Fig. 10).**

17. Locate the O-ring in loose parts and lubricate it using a non-petroleum based lubricant such as vegetable oil. Install the O-ring between the long hose and control valve assembly. (Fig. 10).
18. Connect the threaded fitting on the end of the long hose to the control valve assembly (Fig. 10).
19. Connect the free end of the long hose to the fitting on the gun (Fig. 11).



**Figure 11**

1. Spray gun
2. Hose fitting
3. Hose

20. Secure the end of the hose with a small hose clamp.
21. Wrap the hose around the hooks on the tank and place the spray gun in the gun bracket.

## Safety Instructions

**Improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert  symbol, which means CAUTION, WARNING, or DANGER—"personal safety instruction." Failure to comply with the instruction may result in personal injury or death.**

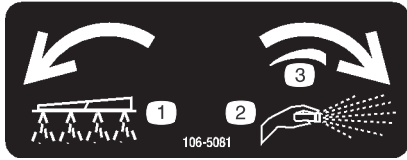
Read also the safety and operation instructions in the vehicle *Operator's Manual*.

- Do not aim the spray gun at any person or animal. Fluids under high pressure can penetrate skin and cause severe injury, possibly resulting in amputation or death. Hot liquids and chemicals can also cause burns or injury. If any part of the body comes in contact with the spray stream, immediately consult a physician familiar with injected fluid injuries.
- Do not place your hand or any other part of your body in front of the spray nozzle.
- Do not leave the equipment under pressure when you are not present.
- Do not use the spray gun if the hose, trigger lock, nozzle, or any other part is damaged or missing.
- Do not use the spray gun if there are any leaks in any hoses, fittings, or other components.
- Do not spray near power lines.
- Do not drive while spraying with a spray gun.
- Wear rubber gloves, safety goggles, and a full body protective suit when spraying chemicals with the spray gun.

## Safety and Instruction Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



106-5081

1. Boom spray
2. Hand spray
3. Continuous variable setting

## Operation



### Warning



**Fluid under pressure can penetrate skin and cause injury.**

- Keep your body and hands away from nozzles that eject high pressure fluid.
- Do not aim the sprayer at any person or animal.
- Make sure all fluid hoses and lines are in good condition and all connections and fittings are tight before applying pressure to the system.
- Use cardboard or paper to find leaks.
- Safely relieve all pressure in the system before performing any work on it.
- Get immediate medical help if fluid is injected into skin.
- Hot liquids and chemicals can cause burns or other harm.

## Switching from Boom Spray Mode to Hand Spray Mode

1. Stop the machine and set the parking brake.



### Warning



**Driving while using the spray gun can cause loss of control, resulting in injury or death. Do not operate the spray gun while driving.**

2. Ensure that the trigger lock on the spray gun is locked.
3. Turn the red knob on the face of the control valve to the Hand Spray position.

4. Turn the booms off.

5. On Multi-Pro 1250 Sprayers, use the application rate switch to adjust the application rate to the highest setting.

6. Turn the pump on.

7. Increase the engine speed until the pressure gauge reads 150 psi and set it at that speed.

**Important** Do not use a pressure setting higher than 150 psi with the spray gun.

**Note:** Use the pressure gauge to the right of the control valve while turning the red knob to achieve the desired amount of pressure at the spray gun.

## Spraying with the Spray Gun

1. Unwrap the hose from the hose hooks.

**Important** Do not pull the hose with the spray gun. Always hold the hose and pull on it directly. Pulling on the hose with the gun may break the fitting on the gun.

2. Release the trigger lock.

3. Direct the spray gun nozzle at the area to be sprayed and pull the trigger.

4. Release the trigger and set the trigger lock when finished.

## **Switching from Hand Spray Mode to Boom Spray Mode**

1. Turn the red nob on the face of the control valve to the Boom Spray position.
2. Direct the spray gun nozzle at an area where it is safe to spray, release the trigger lock, and pull the trigger until all remaining fluid is out of the hose, then set the trigger lock.
3. Wrap the hose around the hooks on the tank and place the spray gun in the gun bracket.
4. Return the engine to idle speed and stop the pump.

