

## Installation Instructions

### Introduction

The Rover volumetric fiber dispenser must be installed on the volumetric concrete truck before use. The enclosed instructions provide good overall guidance on how to install the Rover dispenser on your truck. Most volumetric truck manufacturers can provide more specific instructions or guidelines on how to install the Rover dispenser on their truck bodies. Contact your truck manufacturer.

These instructions outline the necessary steps to install the Rover volumetric fiber dispenser. If technical assistance is necessary, some assistance is available by telephone consultation with FORTA Corporation Operations Department. For more in-depth assistance, on-site technical services are available through FORTA Corporation at a cost of the technician's travel, lodging, and time on site. Contact FORTA Corporation for details; see [page 7](#).



#### Important

*Failure to follow the within instructions, and any other supplied instructions, may void any applicable warranty.*

### Before you start

#### 1. Items included

The following items are included with the Rover dispenser; locate and identify them before you start:



Rover unit



Tubing



Replacement parts



Installation parts

## 2. Utilities needed for operation

The following utilities are needed to operate the Rover:

- A 90 psi air supply

## 3. Tools and supplies required to install

You will need the following tools and supplies to install the Rover:

- Drill and 13/32 in drill bit (for metal)
- Sealant
- Mounting fasteners:
  - Four (4) 3/8 in **stainless steel** fasteners, length sufficient for thickness of mounting surface, plus wall thickness of Rover (0.072 in), plus use of a flat washer on both sides, and **full engagement** of the threads of the nylon-insert lock nut
  - Eight (8) 3/8 in **stainless steel** flat washers
  - Four (4) 3/8 in **stainless steel** nylon-insert lock nuts
- Two 9/16 in wrenches and/or sockets (for the 3/8 in fasteners)
- Adjustable crescent wrench (for installation of air tubing)
- Wire strippers, crimp tool and screwdriver (for installation of wiring)
- Static-resistant tubing (see Important note below), 3 in diameter, length as needed to go between discharge on bottom of Rover and point-of-use on truck, custom tubing may be available from truck manufacturer or FORTA Corporation
- Stainless steel t-bolt clamp for 3 in diameter tubing
- Zip-ties or similar for securing tubing to truck
- Utility knife
- Heat source to bend tubing (if necessary)



### Important

*Important information on discharge tubing:*

*Prevention of static buildup in the discharge tubing is critical to trouble-free operation of the Rover. This is particularly important in high altitudes and dry environments. The recommended method is to use static-resistant tubing, such as can be purchased from BUSADA Manufacturing Corp.*

# Mount the Rover on the truck

## 1. Locate the preferred mounting area

Typically the Rover is mounted to the rear of the truck's cement bin (see examples at right). The Rover must be mounted so that it is above, and as close as possible to, the mixing chamber of the truck. Also, it is important to protect the end of the discharge tube as much as possible from build-up of cement dust and wet cement. The end of the tube should be easily accessible for cleaning. Your truck's manufacturer should be able to provide specific guidance on the best placement of the Rover.



## 2. Drill mounting holes



Note

*Two people are needed to perform this step.*

The rear panel of the Rover has been pre-drilled with 4 mounting holes. Once the mounting location on the truck has been determined, lift the Rover into place and use it as a template to mark the 4 locations for the mounting holes to be drilled in the truck's cement bin/mounting surface. Use the drill and drill bit to drill the 4 holes through the wall of the bin.



**3. Add sealant**

Add sealant around each mounting hole on the rear of the Rover to prevent water from getting into the cement bin. Also add sealant around each of the mounting holes on the INSIDE of the cement bin. It is imperative to prevent water from getting into the cement bin.



**4. Lift and mount the Rover**



Note

*Two people are needed to perform this step.*

While one person lifts the Rover into place and aligns it with the mounting holes, the other person secures the unit with the 3/8 in fasteners, washers and nylon-insert lock nuts from inside the cement bin. Ensure that there is enough sealant around the mounting holes to prevent water from getting into the cement bin.





# Connect control wire

## 1. Route the control wire

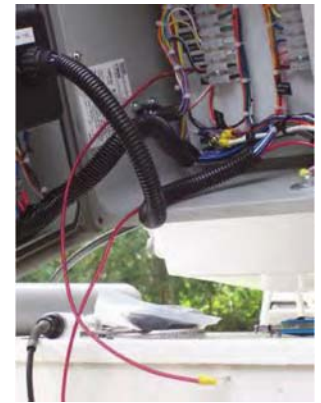
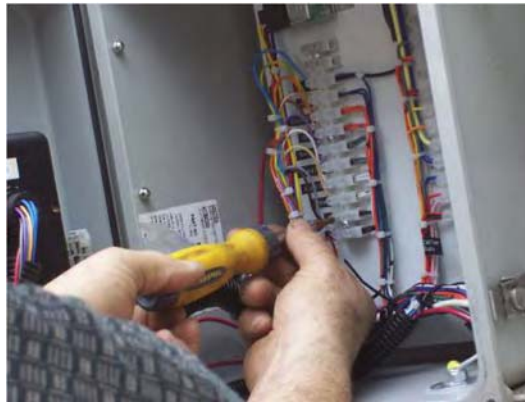
Route the control wire to the truck's control panel. Where possible feed it into any existing electrical harness loom for the paver's control wiring - in particular feed it into the loom before it enters the control panel. The control wire should be routed so that it will be protected from damage as much as possible.



## 2. Connect to truck's control panel

Connect the control wire to the truck's control panel. The pictures to the right are of a specific installation. Contact your truck's manufacturer for information on adding an additional ingredient system to your truck.

The end goal is to connect the Rover's control into the truck's existing controls so that the Rover turns on simultaneously with the material control switch (the switch which controls the belt and the feeding of sand, aggregate, cement, and water) or so that it can be turned on separately when the truck's belt is turned on. An On/Off switch and 3 connectors are provided in the installation kit.



## Prepare and connect air supply

### 1. Add a connection point to truck's air supply

A tee fitting, an elbow fitting and a length of tubing are provided in the installation kit for connection to the truck's existing air supply.



### 2. Connect air supply to valve

Connect the supplied straight fitting to the other end of the tubing and then connect it to the port supplied on the bottom of the Rover.



## Prepare and connect fiber discharge tube

### 1. Shape tubing

Static-resistant tubing must be connected between the discharge outlet on the bottom of the Rover and the mixing chamber of the truck. Shape and bend the tubing if necessary; bends should be gradual with no sharp angles. Custom tube bends may be available to fit your specific truck body; contact FORTA Corporation.



### 2. Mount tubing

Connect tubing to Rover. The end of the tube should fit OVER the outlet on the bottom of the Rover and secured with a hose clamp. Secure the length of tubing to the truck as necessary to prevent it from moving.



## Contact FORTA Corporation

If it is necessary to contact FORTA Corporation, you can do so by the following:

- Mail: FORTA Corporation  
100 Forta Drive  
Grove City, PA 16127-5221
- Phone: 1-800-245-0306 or 1-724-458-5221
- Fax: 1-724-458-833
- Web: [www.fortacorp.com](http://www.fortacorp.com)