



Owner's Manual

Genesis Series

110E

IMPORTANT: READ THIS MANUAL IN ENTIRETY BEFORE OPERATING

Warranty Notice:

This equipment comes with the following warranties:

- **One year** - All other parts on your equipment are warranted against defects through VSI for one year from the date of purchase.

This warranty is a parts and technical support only warranty and does not include labor.

Corrosion related issues including wire connections are not qualified warranty items.

We are not responsible for loss of product or productivity due to failures of any kind

In order to preserve your warranty status please go through the warranty registration form and procedure. This warranty registration was provided when the equipment was purchased. If you cannot locate this form please contact sales@vsinnovation.com or find the warranty registration form at:

<https://vsinnovation.com/pages/vsi-product-warranty-and-registration>

Failure to register this warranty may result in a denied claim due to improper setup, use or installation of equipment.

Your warranty will be void due to abuse, misuse, neglect, alteration, modification, improper handling, improper installation, improper maintenance or failure to follow the instructions and procedures in the VSI manual and warranty registration form.

REGARDING: Wiring Harness Guide for Genesis Series 110E

The Genesis Series 110E comes included with 3 wiring harness sections. A motor controller or switch is not included as we envision most of these units installed directly into the upfitter switches on the vehicle. See the guide below on a brief description of each harness section included.

1. Vehicle Harness

- a. One end of this harness has a 2 pin Deutsch connector to be mated to the small harness coming out of the pump on the sprayer.
- b. Other end of this harness has a 40 Amp Fuse in-line on the 12V Positive Ring terminal, and a 12V Negative Ring terminal. These ring terminals should be installed to the battery of the UTV. The 4 pin Deutsch plug to be mated to the Motor Pump Power Harness.

2. Motor Pump Power Harness

- a. One end of this harness has a 4 pin Deutsch plug to be mated to the Vehicle Harness.
- b. Other end of this harness has 3 ring terminals (12V Positive, 12V Negative, and Motor Signal) to be wired into the upfitter switches on the UTV or a stationary rocker switch (not included).

3. Extension Harness

- a. If the Motor Pump Power Harness itself is not long enough to reach from the sprayer to the battery of the UTV, this Extension Harness can be mated to add additional length. Connect the corresponding 2 pin Deutsch connector to the pump on the sprayer and the other 2 pin Deutsch connector to the Motor Pump Power Harness.



Should you have any questions regarding the information in this bulletin, please contact BOSS Snowplow at 888-492-6841, email us at sales@bossplow.com or chat with us via www.bossplow.com.

Thank you,

VSI by BOSS Snowplow

Getting Started

This unit is powered via the battery on the vehicle it is mounted on. The power harness must be run from the unit, to the battery, and the controller harness must be run from the battery to the cab of the unit. All connections are plug connectors to allow for easy installation. Your controller has a three way switch on it. When positioned in the middle, your unit will be off. When the switch is turned into the up position, it will activate the pumps and turn the boom on. When the switch is turned into the down position, it will turn on the pumps and your spray hose will be ready to use.

Installation

Step One: Mount the unit on the vehicle it will be used on by bolting it down or using the integrated chain hooks.

Step Two: Locate your power harness. This harness will have a plug on one end that plugs into the unit and battery terminal connectors on the other end with another plug for the controller harness. Once you've identified this harness, you must route it on your vehicle from the battery to the unit. Connect the harness to the battery terminals and plug into the unit.

Step Three: Locate your controller harness which will have a plug on one end and the controller on the other. This harness must be routed from the cab of your vehicle to the plug located near the battery terminal end of the power harness.

Step Four: Assemble your boom and connect it to the output valve with the provided plumbing.

Parts Overview

Controller

The switch on the controller has an off switch in the middle, a double line which acts as the on button and a single line which has no function. The display screen on the controller is a reading of how much power is going to your pump which determines how much output your pump has. It goes from 0-100 but anything less than 50% will not give the desired performance out of the boom.

Spray Bar

Your spray bar is hitch mounted and should be around 24" off the ground. There are two options on your spray bar. The fan tip is located parallel to the ground and sprays a fan pattern roughly the width of the vehicle. This will be used mainly for pretreating. Your other option is the pencil tips which are connected to via the connector

perpendicular to the ground. This will spray jets of liquid the entire width of the boom and is typically used for post treatment applications.

Hose Reel

Your hose reel is a Coxreel 50' manual hose reel. To use, simply pull the gun out to the desired length and quit pulling during the series of clicks the hose reel makes while pulling out the hose. This will temporarily lock it at desired length. You can then use the gun by pulling the trigger. Spray can be adjusted by using the orange dial with tabs located just up from the handle. It is not adjusted by turning the head of the gun. Once done spraying, you can retract the hose by giving it a slight tug past the series of clicks and then walking towards the unit as it rewinds itself.

Pump

On top of the unit you will see one 5gpm Delavan pump that pulls the liquid from your tank for your boom or hose reel.

Application Rates

Fan tip, 50% engine speed: 2 gpm Slight loss of pattern

Fan tip, 60% engine speed: 2.3 gpm

Fan tip, 75% engine speed: 3.1 gpm

Fan tip, 90% engine speed: 3.6 gpm

Fan tip, 100% engine speed: 3.8 gpm

“Preferred fan pattern” for the hose gun would be slightly less than a jet tip so when your spray hits the ground it’s roughly covering a 1-2’ diameter circle with pretty even coverage.

Hose gun, 50% engine speed, preferred fan pattern: 1.4 gpm

Hose gun, 75% engine speed, preferred fan pattern: 2.2 gpm

Hose gun, 100% engine speed, preferred fan pattern: 2.5 gpm