

Sprayest

CONTROLS INC.



Model ST12

Remote Boom Control

Introduction

Congratulations on your purchase of the ST12 - 4940 SprayTest. It is a tool that is designed for checking and servicing your sprayer saving you time and chemical, as well as providing safety for you.

Getting Started

Please follow the steps below to help make your installation easier:

- Check the package contents.
- Install the ST12 control box.
- Install the included harnesses.
- Test the unit.

Package Contents

Each ST12 SprayTest should include the following components:

- ST12R control box
- 12T – 12 button remote
- 1 Wiring harness

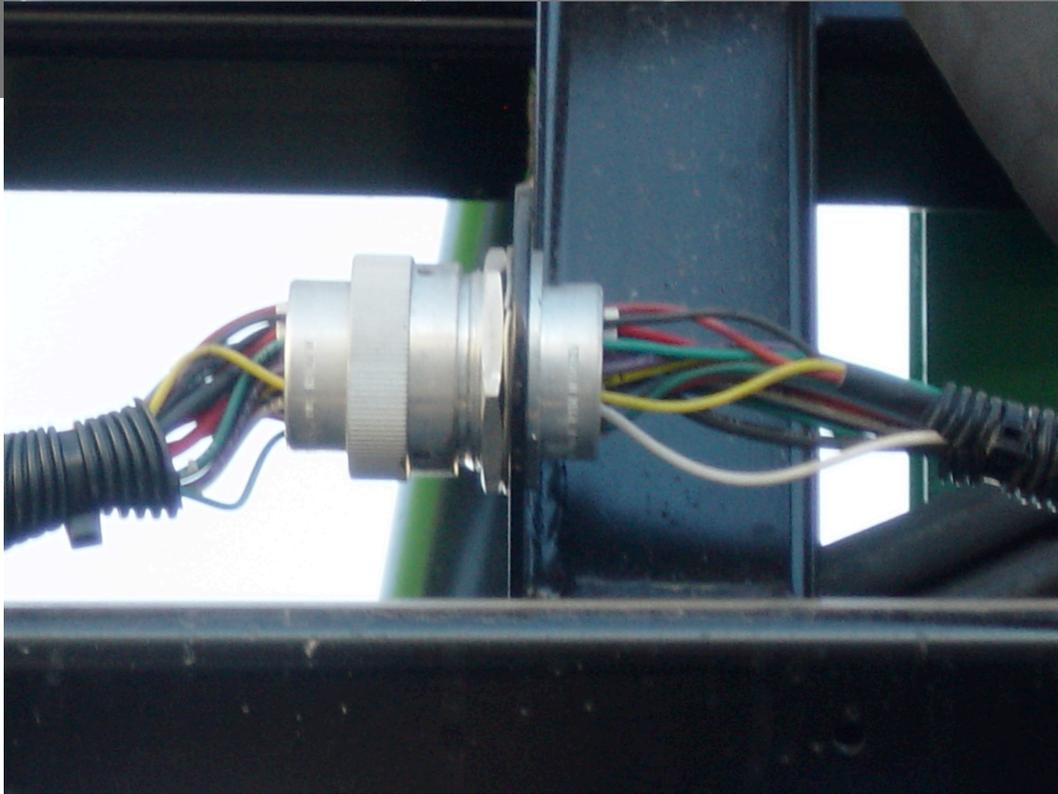
JD 4940 Installation

1. Mount control box with the antenna pointing upward on center section. The stainless steel bracket included will allow some flexibility as to the mounting.
2. The harness has 3 cables coming off the common plug. Locate the 29 pin connector for the left boom as shown in the photo on the following page. Disconnect the connector and install the SprayTest harness for the left boom between the factory connectors. The SprayTest harness simply tees into the existing harness.
3. The center cable connects to the #6 valve in the center. Locate the connector from the center valve and disconnect it, then plug the SprayTest harness included between the factory connectors. This tees into the wiring harness just the same as the other connector.
4. The right harness is connected at the connector for the right boom the same as the left.
5. The diode holders that are located in the SprayTest harness need to be positioned so that the cap is on the top and will shed moisture. You may need to use a wire tie to hold it in this position.

Note: There is a diode in the weather proof fuseholder in the harness. This diode, if removed, must be replaced with the little arrow aimed at the wire going to the valve. This diode prevents any electrical current from flowing back to the sprayers control panel. Failure to re-install this correctly could damage your sprayer control and prevent it from opening the sprayer valves.

Testing

1. Testing can be done without water in the tank and without starting the engine.
2. Turn on the ignition and then turn on the sprayer pump switch.
3. Leave the master switch off. The individual boom switches can be in either on or off position.
4. Put the rate controller into manual mode and turn off any auto sectional control the sprayer may have.
5. Push the power button to turn the remote on.
6. Push and hold button #1 and the left boom valve will open/spray.
7. Push and hold button #2 and the second boom valve from the left will open/spray.
8. Continue to test #3 through #11.
9. When testing is complete, press the power button to turn the remote off. The remote will turn off after 15 minutes if the operator forgets to turn it off.
10. Check to make sure that each section works with the controls in the cab.



JD

4030/4038/4045 Installation

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3. The center cable connects to the #6 valve in the center. Locate the connector from the center valve and disconnect it, then plug the SprayTest harness included between the factory connectors. This tees into the wiring harness just the same as the other connector.

NOTE: When installing on sprayers with 9 sections the buttons 2 thru 10 will activate sections 1 thru 9. To use button 1 for section 1 and 9 for section 9, There is an adapter available that connects between the ST12R harness and the sprayer harness.

Part # ST12 - JD R 12-9 adapter

4. The right harness is connected at the connector for the right boom the same as the left.
5. The diode holders that are located in the SprayTest harness need to be positioned so that the cap is on the top and will shed moisture. You may need to use a wire tie to hold it in this position.

Note: There is a diode in the weather proof fuseholder in the harness. This diode, if removed, must be replaced with the little arrow aimed at the wire going to the valve. This diode prevents any electrical current from flowing back to the sprayers control panel. Failure to re-install this correctly could damage your sprayer control and prevent it from opening the sprayer valves.

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7. Push and hold button #2 and the second boom valve from the left will open/spray.
8. Continue to test #3 through #11.
9. When testing is complete, press the power button to turn the remote off. The remote will turn off after 15 minutes if the operator forgets to turn it off.
10. Check to make sure that all sections work from in cab controls.

Troubleshooting

1. Check the remote to make sure that the battery is good. Turn the remote on without the sprayer being on. If the red light starts blinking once every second, then the remote batteries are low. If the green light isn't flashing rapidly after the battery has been checked or changed, the remote may be faulty.
2. Check the ST12 to make sure that there is power to it. Turn the key to ignition and power on the remote. Press any button on the remote and listen for the sprayer valves opening and closing. If the valves aren't opening and closing check to make sure that the ST12 is connected to a good 12V power source and ground. If the valves still aren't opening after making sure there is a good connection to a power source and ground, check the fuse in the fuseholder by the connector on the sprayer. If the fuse is good, the ST12 is faulty.
3. Check to make sure that the SprayTest connectors are plugged into the right connectors from the valves on the sprayer. The SprayTest harness is numbered 1-11 (depending on the sprayer) with 1 being the left boom.
4. Check to see if the valves open and close with the remote. You should be able to hear the valves as they open and close. If you don't hear the valves opening and closing, go back to the cab of the sprayer and turn the sprayer switches on to make sure the valves are opening and closing with the switches. If the valves don't work with the SprayTest harness connected, check the diodes in the harness. They're located in the weatherproof fuseholders on the adapter harness. Remove the weatherproof cap on the fuseholder for each valve and make sure that the little arrow on the top of the diode is pointed toward the harness from the valve. Test the valves with the switches again.

Warranty is limited to one year parts and labour. Contact SprayTest

Controls Inc. Any attempt to repair or alter the unit will void warranty.



Spraytest

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