

Spraytest

CONTROLS INC.



Model ST8008

Remote Boom Control

Introduction

Congratulations on your purchase of the ST8008 Remote Boom Control. It is a tool that is designed for checking and servicing your sprayer that saves 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 ST8008 control box.
- Install the included harnesses.
- Test the unit.

Package Contents

Each ST8008 Remote Boom Control should include the following components:

- ST8008 control box
- 8-button remote
- Adapter harness specific to the sprayer it was ordered for
- Power harness (necessary for some sprayers)

ST8008 & General Harness Installation

1. Choose a location near the sprayer valves to mount the control box.
2. Securely fasten the box down.
3. Find the connectors from the valves or sprayer harness. (**All sprayers** except those listed later in this guide.)
4. Starting with the valve that controls the boom section that is the furthest to the left, disconnect the connector and plug the adapter harness connector labeled "1" (black wire) in between.
5. Continue working left to right until all the valves have been connected to the harness.
6. Securely fasten all harnesses to the sprayer, allowing for movement of spray booms and ensuring that the wires will not be pinched. Make sure that the fuseholders on the harness between the connectors are installed in such a way that the cap is up to prevent moisture from entering into the fuseholder. Use a wire tie through the hole in the cap to hold it in position if necessary.

6-wire cable

Wire Color	Boom Section
Brown	1
Yellow	2
Green	3
Red	4
White	Power
Black	Ground

4-wire cable

Wire Color	Boom Section
Brown	5
Yellow	6
Red	7
Green	8

Note: There is a diode in the weather proof fuseholder near the end of the harness that attaches to the valve. This diode, if removed, must be replaced with the little arrow aimed at the harness coming from 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.

Solenoid Valve Harness

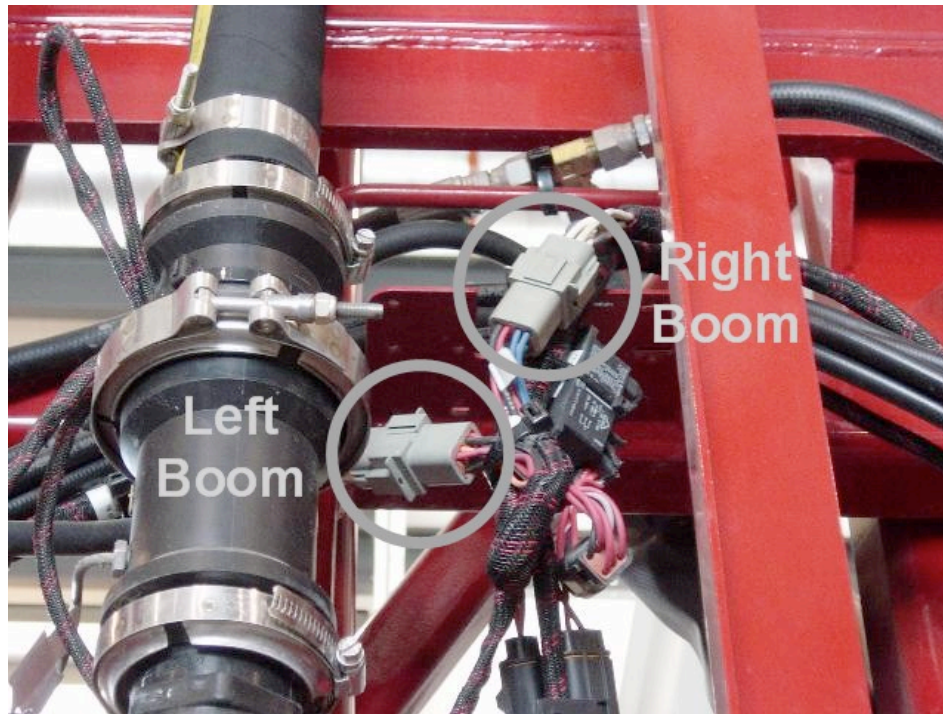
1. Install the ST8008 control box as described in the previous section.
2. Unplug the switched wire from the solenoid and plug in the wire labeled "1" (black wire) on the adapter harness.
3. Plug the switched wire back into other connector on the adapter harness.
4. Continue working left to right until all the valves have been connected to the harness.

Case IH SPX4260

1. Install the ST8008 control box as described in the previous section.
2. Locate the Weatherpack connectors at the back of the tractor unit, where the spray boom connects. There should be five or six 3-pin connectors depending on the sprayer.
3. Disconnect the connector for the boom section that is furthest to the left and plug the connector on the adapter harness labeled "1" (black wire) in between.
4. Continue working left to right until all the valves have been connected to the harness.

Case IH SPX4420 (including SPX4410, SPX3185, SPX3310 and newer)

1. Find a suitable location to mount the control box at the back of the sprayer on the center section of the boom.
2. Mount the box securely using the holes in the bracket.
3. Locate the three grey plugs at the back of the sprayer for 7 section models or two grey plugs for 5-6 section models. They are circled in the picture below.



4. Disconnect the plugs from the left boom and plug the SprayTest "Left Boom" plugs into them.
5. Repeat Step 2 for the right boom and boom 7 if necessary.
6. Connect the SprayTest adapter harness to the ST8008 control box.

Hardi Sprayers

1. Find a suitable location to mount the control box at the back of the tractor. The box needs to be in a hanging position.
2. Mount the box securely using the holes in the bracket.
3. The Hardi adapter box goes in the cab. There is a power cord that needs to be connected to 12v power and a good ground.
4. Unplug the connector that connects to the sectional switch box in the tractor, plug that cable into the mating connector on our Hardi box. Then plug the other connector from our box to the switch box.
5. The cable with a 6 pin and 4 pin connector on it will plug into the ST8008 control box.

Rogator 664

1. Locate the box at the back of the sprayer that contains the air valves.
2. Remove the cover from the box.
3. Disconnect the 4-pin weatherpack connector.
4. Connect the SprayTest harness in between the two disconnected weatherpack connectors.
5. Cut a slot in the side of the box deep enough and wide enough to allow for the SprayTest harness to exit the box while the cover is on.
6. Find a suitable location for the control box to be installed.
7. Plug the SprayTest harness into the control box.
8. Plug the power harness into the control box and connect it to a power source. The fused wire needs to be connected to 12V+ (battery or keyed power) and the other black wire needs to be connected to a good ground.

Rogator 854 (1996 and earlier)

1. Locate the box with the air valves at the back of the sprayer.
2. Take the cover off of the top of the box.
3. Disconnect the 6-pin weatherpack connector.
4. Connect the SprayTest harness in between the two disconnected weatherpack connectors.
5. Cut a slot in the side of the box deep enough and wide enough to allow for the SprayTest harness to exit the box while the cover is on.
6. Find a suitable location for the control box to be installed.
7. Plug the SprayTest harness into the control box.
8. Plug the power harness into the control box and connect it to a power source. The fused wire needs to be connected to 12V+ (battery or keyed power) and the other black wire needs to be connected to a good ground.

Rogator 854 (1997 and later including 1054, 1254)

1. Find a suitable location to mount the control box at the back of the sprayer.
2. Mount the box securely using the holes in the bracket.
3. Identify connector shown in the picture below. This is located under the air valves on the right side of the foam marker.

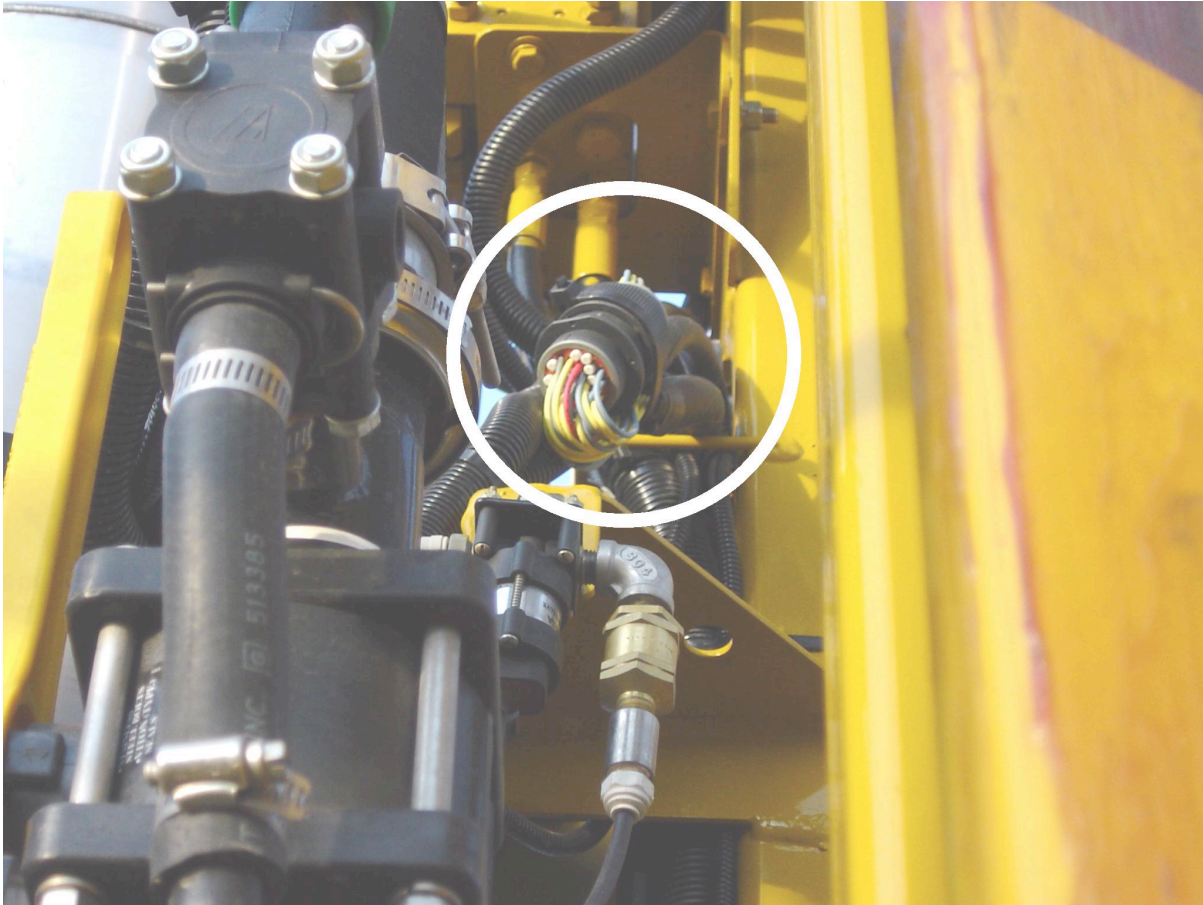


4. Disconnect the wiring harness from the bottom of the valve box and plug the harness into the plug on the valve.
5. Reconnect the original harness to the adaptor harness.
6. Connect the included power harness to a 12 volt source (preferably a keyed source) and a good ground.
7. Connect the SprayTest adapter harness to the ST8008 control box.

Rogator 1064 (including 864, 1264 and newer)

or Willmar 8650

1. Find a suitable location to mount the control box at the back of the sprayer.
2. Mount the box securely using the holes in the bracket.
3. Identify the connector as shown in the picture below. It is located at the back of the sprayer near the mast.



4. Disconnect the wiring harness and plug the SprayTest adapter harness in between.
5. Connect the SprayTest adapter harness to the ST8008 control box.

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 and hold button #1 and the left boom valve will open/spray.
6. Push and hold button #2 and the second boom valve from the left will open/spray.
7. Continue to test #3 through #7.

Troubleshooting

1. Check the remote to make sure that the battery is good. Press and hold any button and watch to see if the light comes on. If the light doesn't come on, change the battery and test it again. If the light doesn't come on after the battery is changed, the remote is faulty.
2. Check the ST8008 to make sure that there is power to it. Turn on the key and press any button on the remote while listening for a clicking sound. If there is no clicking sound coming from the box, check to make sure that the ST8008 is connected to a good 12V power source and ground. If there is still no clicking sound from the ST8008 after making sure there is a good connection to a power source and ground, check the fuse inside the box. If the fuse is good, the ST8008 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 1-7 (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 valve. Test the valves with the switches again.

Warranty is limited to one year parts and labour. Any attempt to repair or alter the unit will void warranty.

Sprayest

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