

# Genetic Peek-A-Boom Installation Procedures

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Generally speaking, most sprayers will have a 3 or 4 terminal connector that operates each boom valve.

- 1) A Constant 12 VDC Positive, or Hot connector wire that supplies a constant 12 Volt to power the motor in either direction.
- 2) A constant Negative, or Ground connector wire to provide a constant ground for the motor.
- 3) A signal "IN" connector that signals the valve to open (normally when 12 VDC positive is connected to the lead) or Close.
- 4) Occasionally a fourth wire will connect to send a signal back to let the controller know that the valve did, in fact, open

When connecting the Peek-A-Boom to a typical sprayer, you must identify the "Signal In" Wire and connect the corresponding wire of the Peek-A-Boom. Wire 1 to boom 1, wire 2 to boom 2 etc.

All new Peek-A-Booms are capable of controlling up to 12 individual boom sections and come in two styles.

1. **Style 1**, called the "tie in", includes one wire output for each boom section. The "tie in" style is used whenever there are individual mechanical switches in the cabs which allow the operator to control the boom valves.
2. **Style 2**, called the "Pass Through", includes two wires for each boom valve. It is recommended whenever the sprayer uses "CAN Based Communication". Generally you can identify these systems because they do not have a bank of switches that operates the boom valves; rather they are controlled via a touch screen. When installing a Peek-A-Boom in one of these sprayers, the "Pass Through" style is recommended. It eliminates feed back to the SRC of your sprayer by disconnecting from the input during the operation of the Peek-A-Boom.

## Installing the "Tie In" Style:

1. Mount the Peek-A-Boom in a convenient place where the wires can access the connection point.
2. Power the Peek-A-Boom connecting the RED (positive) wire to any 12v power source and the BLACK (negative) to a good ground. (Note: the best place to connect these is at the output wire of each boom switch. Normally the input wire of the switch is also a convenient place to get a hot wire as well.
3. Identify the signal wire for section 1 and connect wire 1 of the Peek-A-Boom to that wire, using whatever connection method available to you. (scotch lock, solder and heat shrink, compression connectors, or in some cases you can connect directly into the switch spades themselves.
4. Perform the procedure in 3 for each of the remaining boom valves.

Reassemble any parts removed during installation, and the Peek-A-Boom is ready to use.

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## Operating the Tie In Peek-A-Boom

1. Be sure the transmitter has good batteries
2. When operating the Peek-A-Boom, turn on the master boom switch and turn off all of the individual boom switches and start the pump.
3. Standing a safe distance behind the sprayer, push and hold each boom button on the transmitter to operate each valve. When you push the button, each valve will turn on, and when you release the button the valve will turn off.

Note for operation: Be sure any automatic boom off functions are turned off or the valve will turn on, then right back off as the computer identifies that the area has already been sprayed.

## Installing the "Pass Through" Style:

1. Mount the Peek-A-Boom in a convenient place where the wires can access the connection point.
2. Power the Peek-A-Boom connecting the RED (positive) wire to any 12v power source and the BLACK (negative) to a good ground.
3. Make sure you are behind any SRC controllers and identify the signal wire for section 1.
4. Cut the wire and connect input wire of the Peek-A-Boom to the controller side of that wire. Now connect the output wire of the Peek-A-Boom to the Boom side.
5. Perform the procedure in 3 for each of the remaining boom valves.

Reassemble any parts removed during installation, and the Peek-A-Boom is ready to use.

## Operating the Pass Through Peek-A-Boom

1. Be sure the transmitter has good batteries.
2. Start the sprayer and turn off the master boom switch.
3. Standing a safe distance behind the sprayer, push and hold each boom button on the transmitter to operate each valve. When you push the button, each valve will turn on, and when you release the button the valve will turn off.

Note for operation: Be sure any automatic boom off functions are turned off or the valve will turn on, then right back off as the computer identifies that the area has already been sprayed.