The controller has 3 jacks, two speak-con control and one power-con.

Blue is always AC power in. (see fig 2) When the control box is plugged a green light indicates the unit is powered. The 2 black plugs are the signal output. (See fig 2) Some control boxes only have one black output plug.

The "enable" button can let you know that you have power in the system. When enable is pressed the red light on the control box will light. On some boxes the light is labeled "enable" and some boxes the light is labeled "go". *This will also light the end of circuit test light plugged into the last solenoid box at the same time* (you can use more than 1 end of circuit tester at a time. If you use a splitter and send signal to 2 or more strings of boxes a test light can go to the last unit in each string). Enable tests both circuit 1 and 2 at the same time. (See fig 1)

There is a "Go" button for circuit 1 and 2. It does not matter how you wire the system or which of the 2 output plugs on the control box you use since the solenoid boxes are wired and marked for circuit 1 or 2 and will only fire when the proper button is pushed. (some control boxes only have 1 output plug) (The cable and splitters carry the signal for both channels) (See fig 1)

To fire hold the "enable" down and press 1 or 2 or 1 and 2 at once to release the solenoid units.

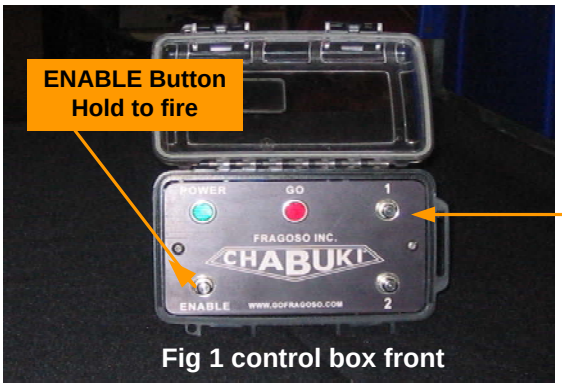


Fig 1 control box front

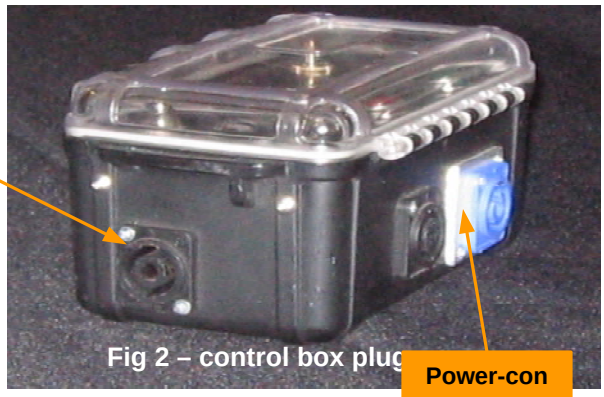


Fig 2 – control box plug

The Solenoid box *(fig. 3, 4)*

On the top of the box is a clamp for pipe or truss along with a safety clip cable. (See fig 3,4)

The boxes are marked either 1 or 2. These match the circuit 1 or 2 firing buttons on the control box.

The box has 2 plugs used to link boxes together. They can link in either direction. (See fig 4 and drawings 1,2,3)

NOTE: A Maximum of 10 units can be linked on one power source.
Above 10 units you must add the AC booster relay box, with additional power supply. (see below).

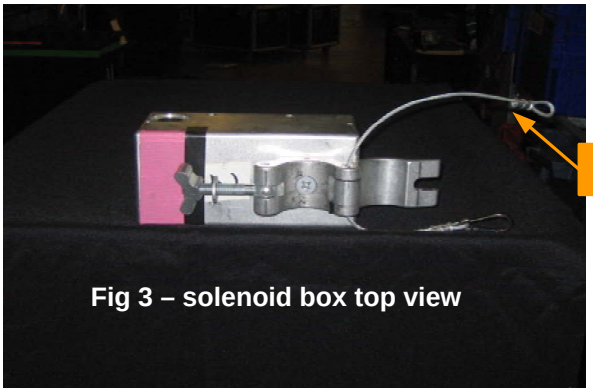


Fig 3 – solenoid box top view

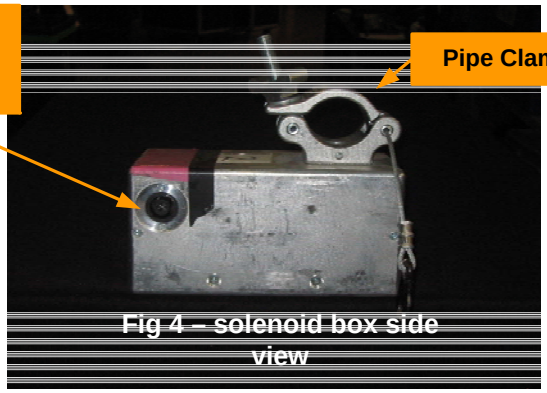
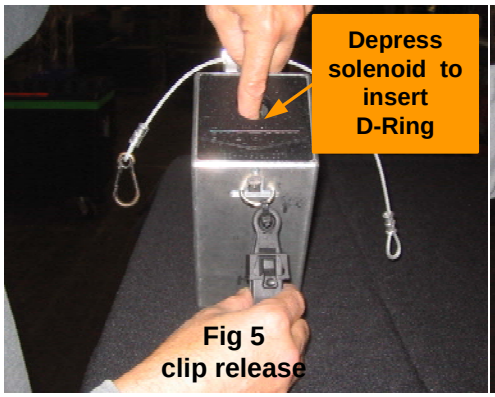
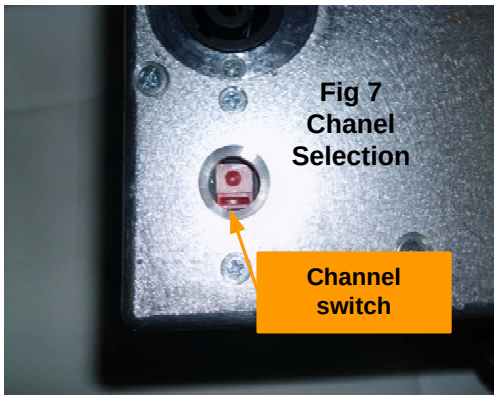


Fig 4 – solenoid box side view

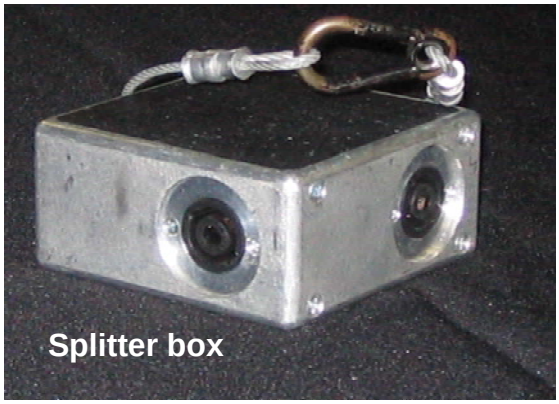




On the bottom of the box (opposite the clamp) is the release hook. It is recessed into the bottom of the box and is set by pressing the button in the hole in the side of the box just above the release hook. (See fig 5,6)

To load, press the lever in the front hole, place hook in slot, release lever. (See fig 5)

The solenoid boxes can be set to channel 1 or 2. There is a slide switch on the side of the solenoid box (See Fig 7). 1 dot showing is channel 1 and 2 dots showing is channel 2. Use a small screw driver to slide switch up or down to change setting.



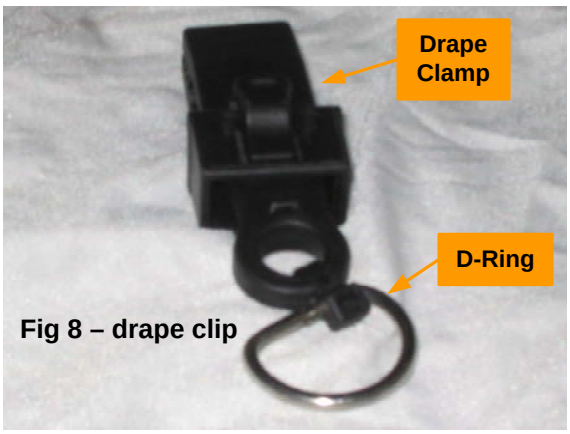
The Splitter box

The splitter box lets you split the signal in 2 different directions. Think of it as a Y cable. (See fig 9)

The Drape Clip

The clip attaches the drape to the solenoid box. The top of the clip is a ring that hooks into the solenoid box. (See fig 8)

NOTE: If Drapes have clips you can use the D-Ring without the drape clip.

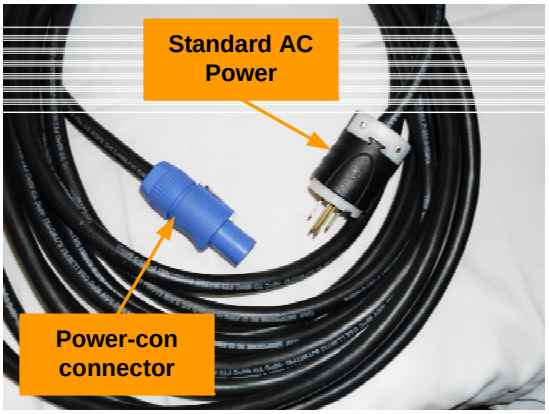


The Test Light

This is plugged into the last solenoid box in a line and lights when the "enable" button is pressed to let you know that power is going through the line. (See fig 7)

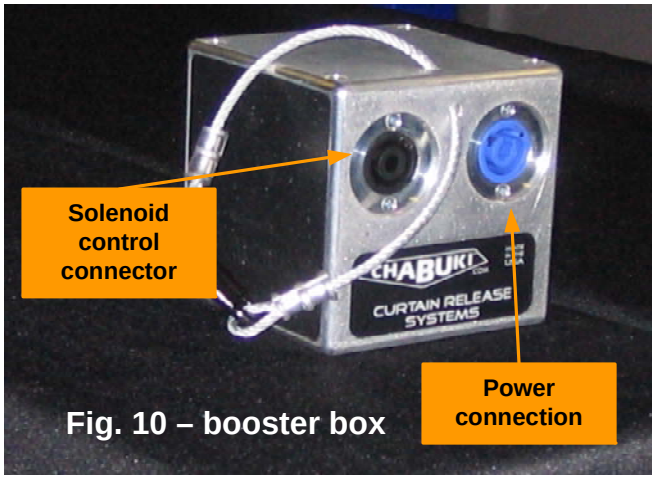
The connection cable

The system uses NL4 connectors (sometimes called speakon connectors). This is a locking cable. There is a slider button on the connector that you slide back to unlock. Slide lock button, insert, and turn clockwise to insert. The solenoid boxes string together with these cables.



The Power Cable

The power cable has a standard 120 volt Parallel Blade Edison Male AC plug at one end, the other end a a Neutrik blue Power Connector at the other end. Power input is always a blue connector on all boxes.



The Booster box

Any time you have more than 10 solenoid boxes you need to add the booster relay.

The solenoids use power and the system can be overloaded resulting in a failure to work properly. The booster box is plugged into AC power and placed is series with the solenoid boxes. The box is added to ensure there is enough power to fire all the solenoids.

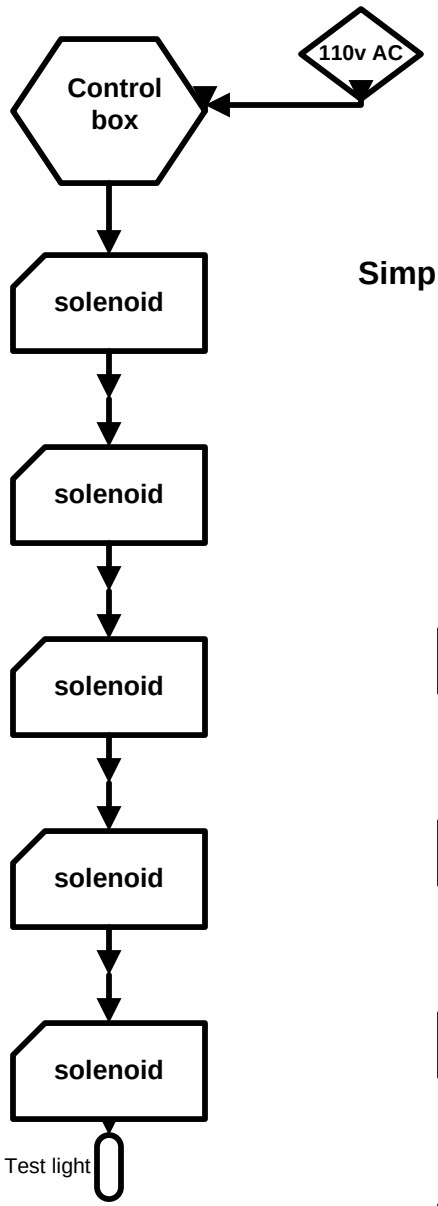
Example: You need 15 solenoid boxes to do a drop. The booster is strung between solenoid boxes 10 and 11.

Example: you are using 10 solenoid boxes on channel 1 and 10 solenoid boxes on channel 2. Your total is 20 boxes so you add the booster relay at the beginning of either one of the strings of 10 boxes. (See drawing 3)

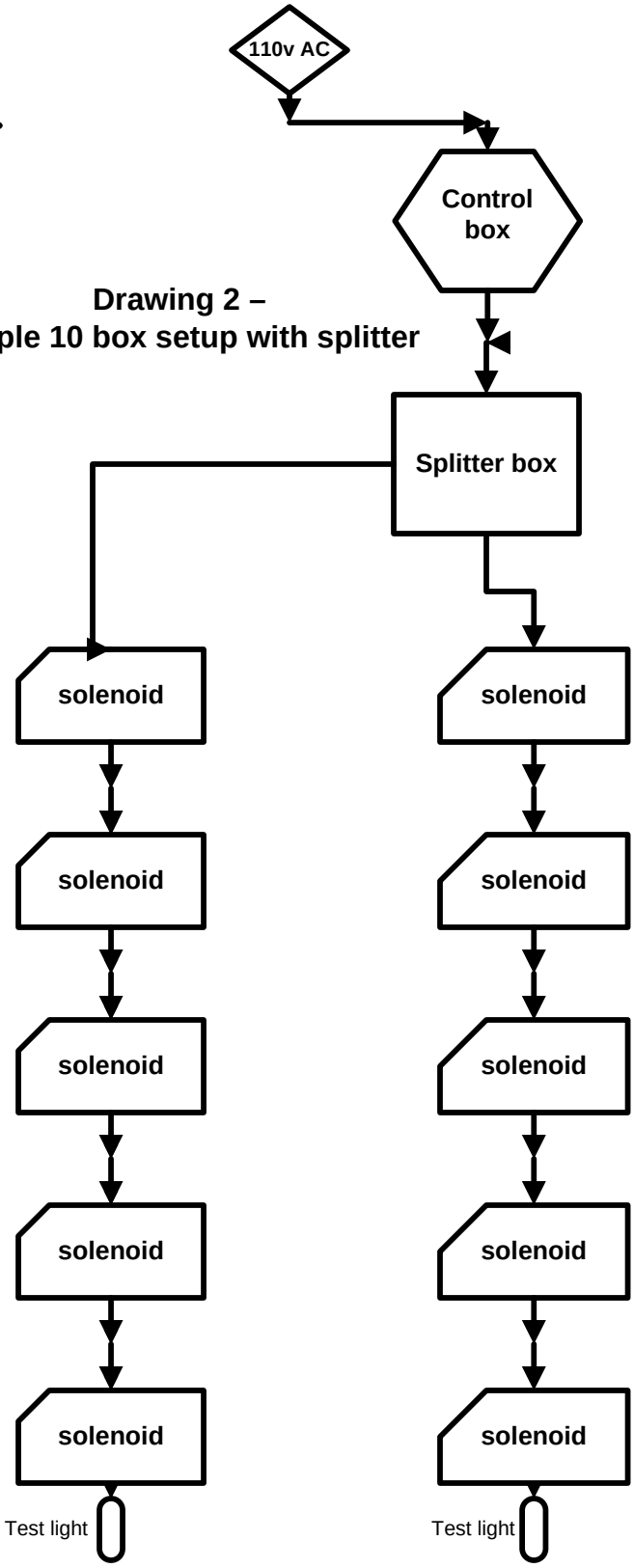
When you're ready to go. Drape Drop

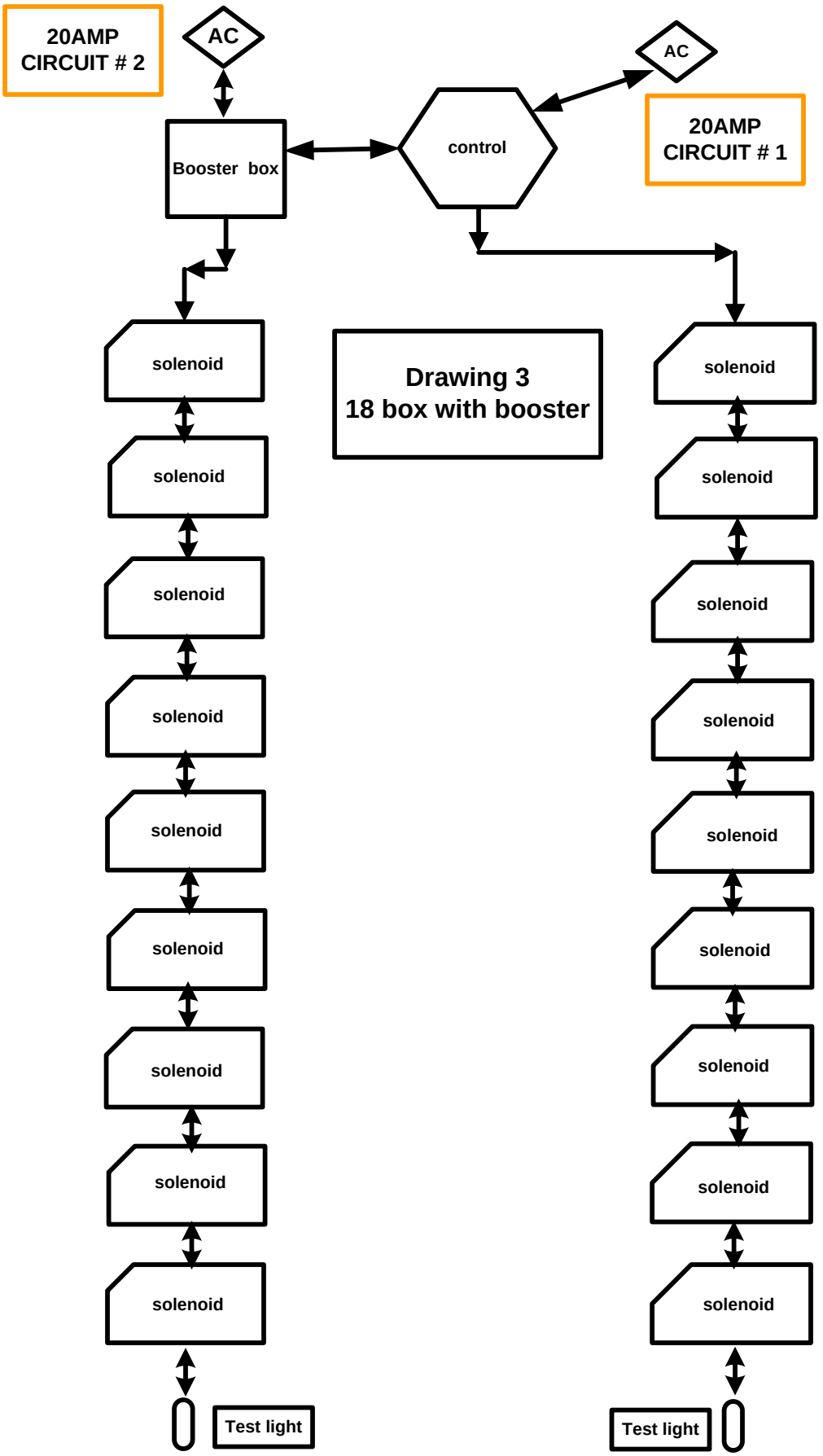
Once you're all set to go; while pressing the enable button also press button 1, 2, or 1 and 2. The system will only fire when the enable button is pressed at the same time as firing buttons 1 and 2.

Drawing 1 - Simple 5 box setup



Drawing 2 –
Simple 10 box setup with splitter





Drawing 3
18 box with booster

NOTE:
You MUST have two (2) Separate Twenty (20) amp circuits or risk misfire