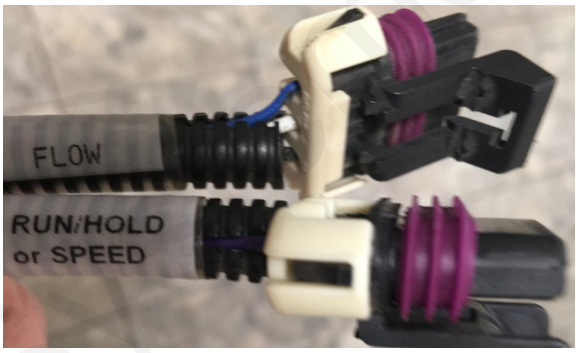
My Commander II is clicking (when I drive or when I start applying)

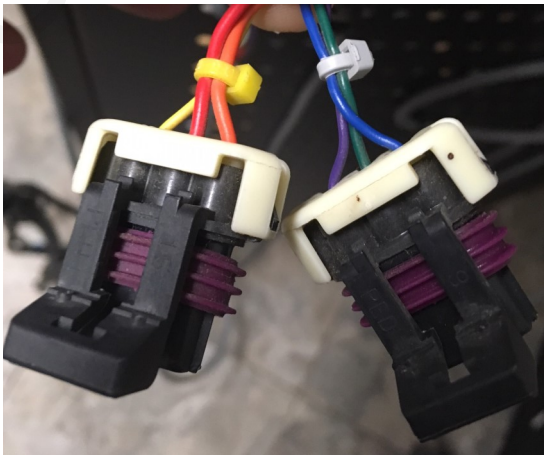
1. When hooking up a new system or when reconnecting a used system for spring startup, they may make a couple of mistakes in connecting the harnesses.

On the final pump harness (18220) there are two 3-pin MP tower connectors. One is for FLOW, the other is for RUN/HOLD or SPEED. If the RUN/HOLD connector is plugged into the flowmeter, as soon as the flowmeter starts sending out pulses, the Commander II will start clicking and the HOLD signal will be flashing quickly on the screen.



Yellow tie –Astro speed Gray tie—Run/Hold

A similar problem can occur if the RUN/HOLD or SPEED connector is plugged into an Astro speed sensor on the implement or a shaft sensor on a drill. In the Commander II, you must go to SPECIAL CAL, page 2 > turn dial to RATE > change from rHold to rSpeed. If this is not done, as soon as you drive, the Astro will send out pulses which will cause the Commander II to click repeatedly and the HOLD will flash quickly on and off. If it with a shaft sensor, as soon as the shaft starts turning, the Commander II will click repeatedly and HOLD will flash quickly on and off on the screen.



The other place with a similar scenario is right behind the Commander II. There are two 3-pin MP tower connectors here as well. One has a gray zip tie, the other has a yellow zip tie. The yellow zip tie is for the speed signal from the Astro. The gray zip tie is for the RUN/HOLD switch. If these are reversed, as soon as you drive and the Astro starts sending speed pulses, the Commander II will begin clicking and the HOLD signal will flash quickly on the screen.

2. Remember the **MANUAL test** to see if you can start and then control the pumps. You can also read flow and pressure here. Raise and lower implement to verify that mercury switch is controlling RUN/HOLD correctly.

MAN > RUN (not HOLD) > VOLUME/MINUTE > BOOM 1(2,3) ON > Press and hold + button. Section valves should open. Pump should start. Should read flow on Vol/Min. Turn dial to PRESSURE to see what that is.

3. **AUTO test** to see if system will lock on to the Target Rate.

AUTO > RUN > CAL light on > turn dial to SPEED > press + to set test speed > turn dial to RATE > turn BOOM switches ON. Pump should run and lock on to Target Rate. Turn dial to PRESSURE to check the pressure. Turn dial to VOL/MINUTE to see flow in gpm.

4. It's a good idea to go to **CAL mode** and **verify the Flow Cal (VOLUME) and Boom Width (AREA).** When you check the Boom Width, check all 3 booms, even if they are only using Boom 1. Sometimes, they will have a width in 2 and 3 when they aren't using that. To exit CAL mode, press and hold the CAL button.

5. There are **3 Volume counters and 3 Area counters** that can be set independently to keep track of how many gallons they have used and how many acres they have covered in a field or in a day or for a cumulative count.

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