



Quick Guide to Using the WeedSeeker Controller Test Fixture 404-1-007

The Test Fixture is powered from the controller. The various modes of the controller can be verified from the three logic line LEDs. Other functions and voltage levels require the built-in voltmeter.

To troubleshoot a system, first disconnect the cables from both Controller ports. Test each port verifying voltage and signals. Then connect ports one at a time and check at the end of the line.

1. The tester may be connected:
 - at the end of the sensor chain,
 - directly to the Controller (TO ONE PORT ONLY!),
 - in-line, between sensors (replacing a daisy cable)
 - or in-line (replacing a sensor).*

**You will need to connect the gender-change cables.*
2. Turn on the Controller; using the rotary switch, select and verify the three voltages 12V, 12V, 9V
There will be some voltage drop as you connect further from the controller.
3. The LEDs should match the pattern in the table below for D0,D1,D2. The voltmeter should read approximately 0V or 4V for OFF and ON respectively.
4. The Main Clock signal should read about 2.2 - 2.5V.
The Delay Clock signal should read the same if no sensors connected; as sensors are added, it will read lower (1.8 - 2.5V).
5. The autospeed mode may be verified by watching the three LEDs while connected to a moving rig with a speed sensor connected.

Table 1. Data Line States for Each Operating Mode				
MODE	D2	D1	D0	Effect
SPD LOW	off	off	ON	
SPD MED	off	ON	off	
SPD HIGH	off	off	off	
STANDBY	off	ON	ON	Overrides Speed
LIFT	off	ON	ON	Equivalent to Standby Mode
WARMUP	off	ON	ON	Only Soilbase and Flush operate.
SOILBASE	ON	ON	ON	Overrides Speed
FLUSH	off	off	off	Overrides everything