Kwick Initial Startup Sheet

The information provided on this sheet is a quick-start guide to hookups and programming of this machine.
Before operating sprayer all operation and safety manuals must be reviewed and followed! Much more detailed information is included in the manuals and also additional programming options.

Cab electrical hookups for 12 volt negative ground systems only !

Raven 450 console cable	Plug the 16 pin connector into the back of the console and also the 3 pin speed sensor cable.
Large 12 gauge red wire	Connect to positive (+) battery terminal or positive electrical outlet. Raven provides an in-line fuse. If you remove this make sure this connection is still fused.
Large 12 gauge white wire	Connect to negative (–) battery terminal or negative electrical outlet.
Orange wire , positive (+) power switched by the on/off switch on the from Raven console. Does not have to be hooked up.	Can be used to power sky-track speed sensor or remote run/hold switch.
Orange/white wire -remote run/hold wire used primarily with an on/off foot switch or remote control on/off switch. Does not have to be hooked up.	Supplying positive (+) 12 volts to this wire will override the master on/off switch on Raven console and turn the booms on.
Dual weather pack connector with orange wire and white wire . Does not have to be hooked up.	Orange is positive (+) power and white is (–) negative switched by Raven console on/off switch. Can be used to power other options using 10 amps or less.
Fast Boom Function Control Box (toggle box) Standard with a three prong universal plug-in connector.	If your tractor is not equipped with this style connector the plug can be cut off and wired as follows: Red-positive, Black- negative.
Sky track Speed Sensor	Blue wire to positive 12 volts hot.
Foam Marker	Black wire to 12 volts negative (-) White wire to 12volts positive (+)
Raven G1 and G2 Autoboom	Black wire to 12 volts negative (-) Red wire to 12volts positive (+)
Norac Sonic Boom Height cable	Standard with a three prong universal plug-in connector.

Raven 450 console programming

Turn power switch to on. If screen does not light up recheck your power connections.	Screen should read US. If not press CE key on console until you scroll to US. When the screen reads US press enter.
Screen should now read SP1.	SP 1 is used for wheel magnet and proximity style sensors. SP 2 is used for radar and GPS (sky tracker) applications. Use the CE key to scroll to correct setting and press enter.
Screen should now read C-SD-STANDARD VALVE.	This is the valve used on Fast Sprayers. Scroll with the CE key until C-SD-STANDARD appears and then press enter.

After you have programmed these first three functions they are locked in. To scroll through your selections hold the self-test key. If you wish to change these selections turn the power ON/OFF switch to off. Then while holding the CE key turn the ON/Off switch to on. This will reset and clear information from the entire console. If you wish to only change information in any of the first three selections press and hold the self-test key for 30 seconds. The display will start to flash and you can reprogram as outlined above without losing information in the rest of the console.	
Boom width calibration for broadcast applications. Refer to the Raven manual for band spraying applications. US boom sections are always calibrated in inches. On broadcast applications always take the number of nozzle outlets in each section times (x) their spacing. Example, for 12 outlets spaced at 20" you would enter 240. At this time you should physically check your outlet spacing, number of sections and the number of outlets in each section. Record your boom widths on the Raven calibration card. Fence line outlets are not normally counted. Verify that your total boom section inches match your total boom width.	
Entering remaining data into your Raven console.	The **sequence** for entering data into the remaining keys are as follows: 1. press key you wish to program. 2. press enter. 3. enter proper number (s). 4. press enter key again. Your information is now locked in.
BOOM CAL numbers, programming boom sections. All sections must be programmed. Use 0 in sections you do not use.	Press BOOM CAL key to access boom sections and use arrow keys to scroll to different boom sections. Enter numbers from Raven calibration card.
SPEED CAL number, start with one of the following #'s or consult the Raven manual for more options. All speed cal #'s **must be verified** by zeroing the distance key and driving a premeasured distance.	Sky Tracker 598, Raven Radar 598, proximity sensor 930. Magnetic wheel sensor with four magnets: **2100** for 320/90R46, **2180** for 380/90R46. Raven ENVIZO 785
METER CAL number, this number is located at the Raven flowmeter and is stamped on a white tag attached to the flowmeter cable.	The flowmeter is normally mounted on the rear boom frame or on the new Fast Model's under the main tank. The number is usually between 700 and 720.
VALVE CAL number	The number Fast & Raven recommend to use is 2123. This number regulates the motorized control valve operation.
RATE 1	Enter your target rate in gallons per acre. Note, the Raven console puts one decimal point in this number so you may have to add an addition 0.
RATE 2 If you do not use a second rate enter the same rate as in RATE 1.	Enter a second target rate in gallons per acre. Note, the Raven console puts one decimal point in this numberso you may have to add an additional 0.
CAL should stop flashing in left side display.	If CAL is still flashing you have missed programming one or more of the 3 through 8 functions. Press each key to verify.
VOL/TANK, counts down the number of gallons being sprayed out of the main supply tank**.**	Enter the number of gals. in main supply tank. Each time the tank is filled the total # of gals. left in the tank must be entered.
TIME	Enter in military time.
The bottom row of keys are for information and do not need to be programmed. Acre, volume and distance counters can be zeroed out by selecting it's function/information key and entering 0.	