

# iVAC Pro Trouble Shooting Guide.

Rev 1 - 8 May 2012

**Overview.**

The following sequence of tests is used to identify potential problems with iVAC Pro Modules. It is assumed that the following items are available.

iVAC Pro Tool, iVAC Pro Switch, Power Tool and a Dust Collector. The Dust collector may be directly controlled or through an iVAC Contactor, dependant on Horse Power rating.

**Set Up**

Prior to connecting the iVAC Pro Tool (Pro Tool) and the iVAC pro Switch (Pro Switch.) to the AC Mains the Program switches should be set.

Set both units to System Address 'A'. (S1 and S2 - Off)

Set the Pro Tool to Tool Address 8. (S4, 5 and 6 - Off.)

Set the 'Turn Off Time on the Pro Switch to 5 secs. (S5 and S6 – Off.)

Connect the Pro Tool and the Pro Switch to the AC Mains.

Connect the power tool to the Pro Tool.

Connect the Dust Collector or iVAC Contactor to the Pro Switch.

Tests 1 to 4 are used to check the Pro Switch.

Step	Pro Tool Mode	Power Tool	Pro Switch Mode	Dust Collector	
1	Off	Off	Off	Off	Dust Collector not running
2	Off	Off	Off	On	Dust Collector not running
3	Off	Off	On	On	Dust collector turns on immediately
4	Off	Off	Off	On	Dust Collector turns off immediately

Step 1 is the idle state.

Step 2 operates the power switch on the dust collector

Step 3 indicates that the Pro Switch has internal power and applies power to the Dust Collector or iVAC Contactor.

Step	Pro Tool Mode	Power Tool	Pro Switch Mode	Dust Collector	
5	Off	Off	Auto	On	Dust Collector is off.
6	On	Off	Auto	On	Dust Collector turns on after 1.5 secs
7	Off	Off	Auto	On	Dust Collector turns off after 5 seconds

Step 5 sets the Pro Switch to Auto Mode in preparation to receive wireless messages from the Pro Tool.

Step 6 sends an On wireless message from the Pro Tool to the Pro Switch. It indicates that there is internal power to the Pro Tool circuitry. It also indicates that a wireless transmission took place.

Step 7 sends an Off signal from the Pro Tool to the Pro Switch. It also checks the Turn Off Time on the Pro Switch.

Step	Pro Tool Mode	Power Tool	Pro Switch Mode	Dust Collector	
8	Auto	Off	Auto	On	
9	Auto	On	Auto	On	
10	Auto	Off	Auto	On	

Step 8 sets the Pro Tool to Auto in preparation to monitor the power tool turning On or Off.

Step 9. When the power tool turns on the Pro Tool detects current flow to the power tool and sends an On wireless message to the Pro Switch. It also indicates that the Pro Tool is supplying AC power to the power tool.

Step 10 When the power tool turns Off a wireless message is sent to the Pro Switch. To turn it off.