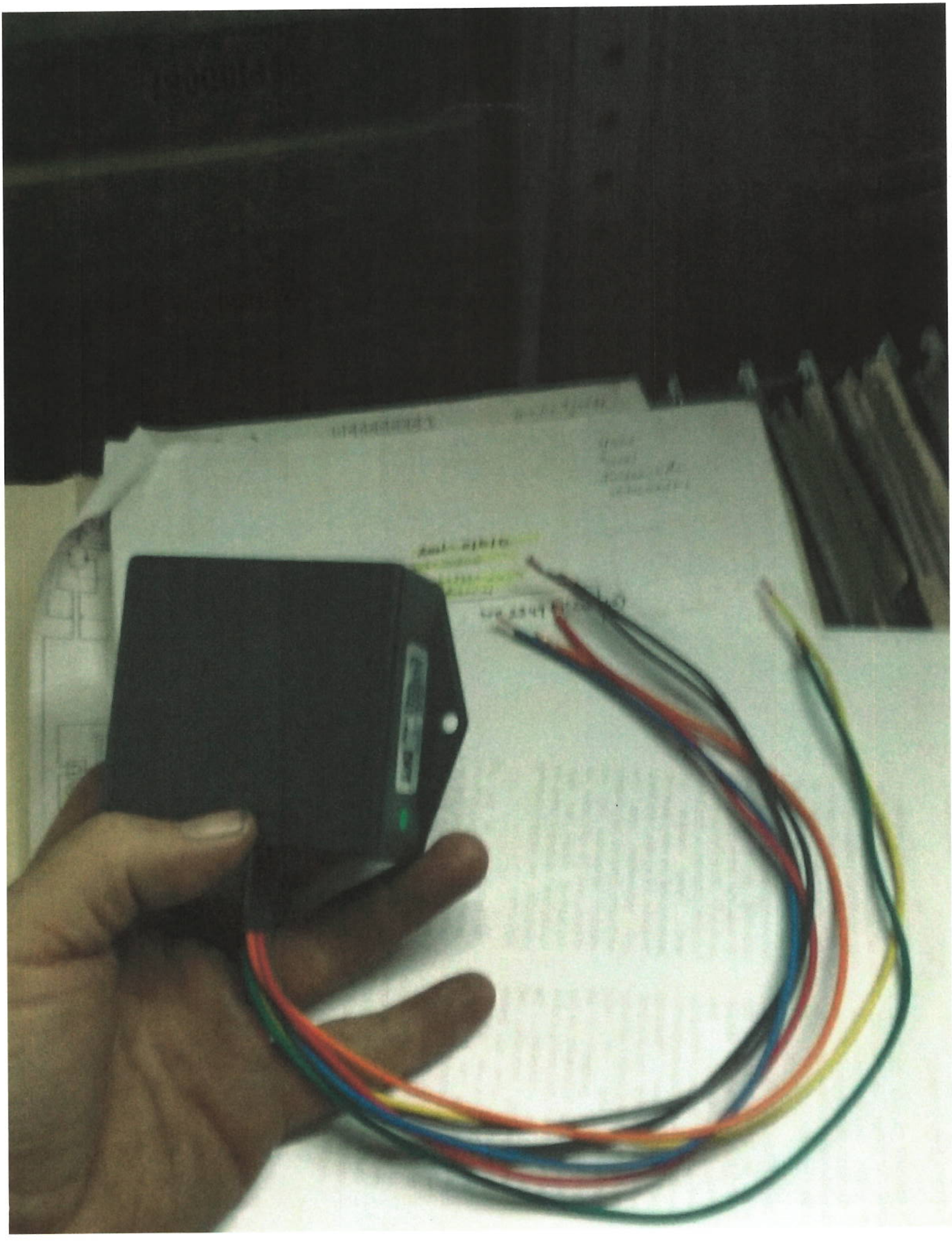
Integrity AG

#1608

4RSPH w/65" LAH

REAR
OF
BIN
LENCO



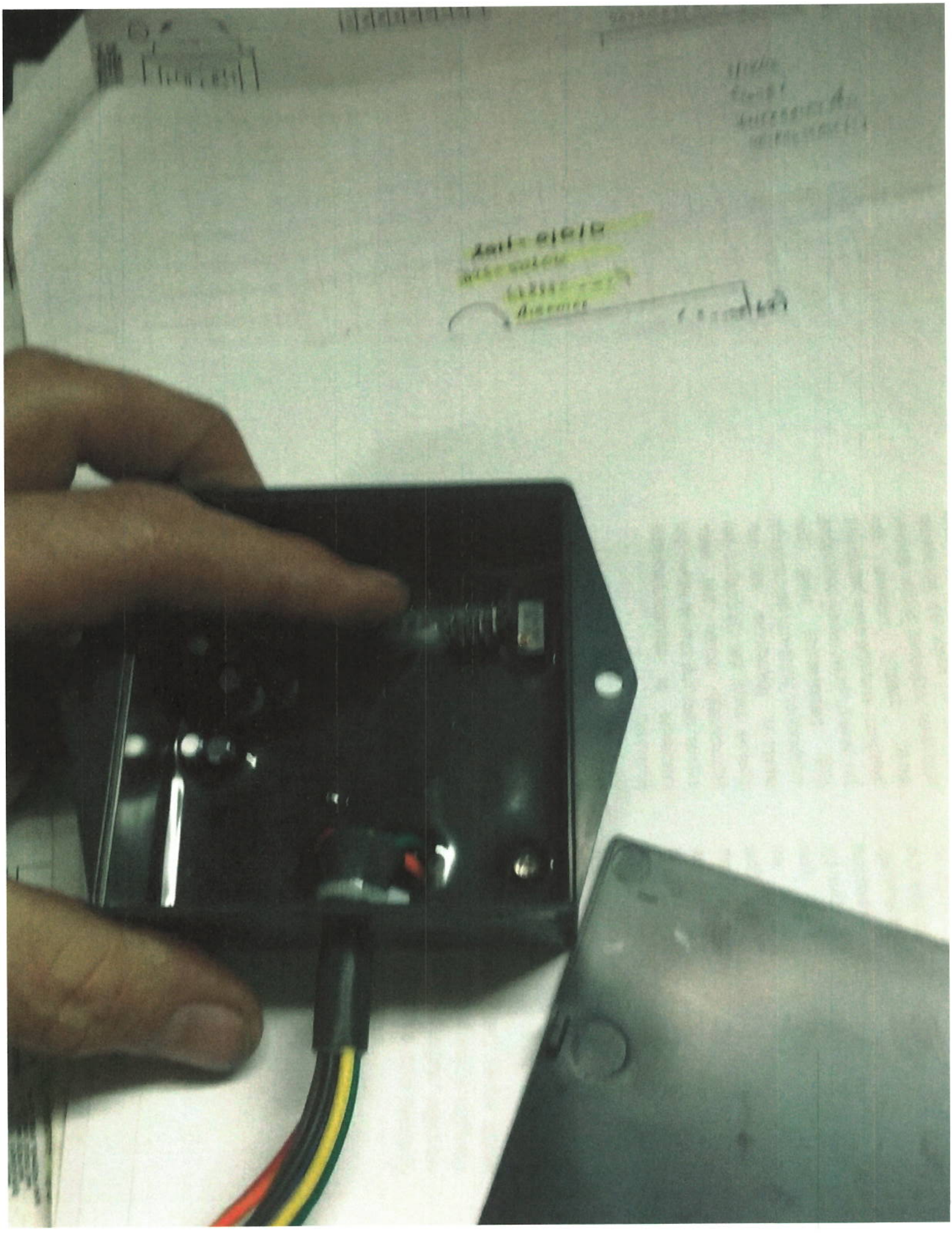
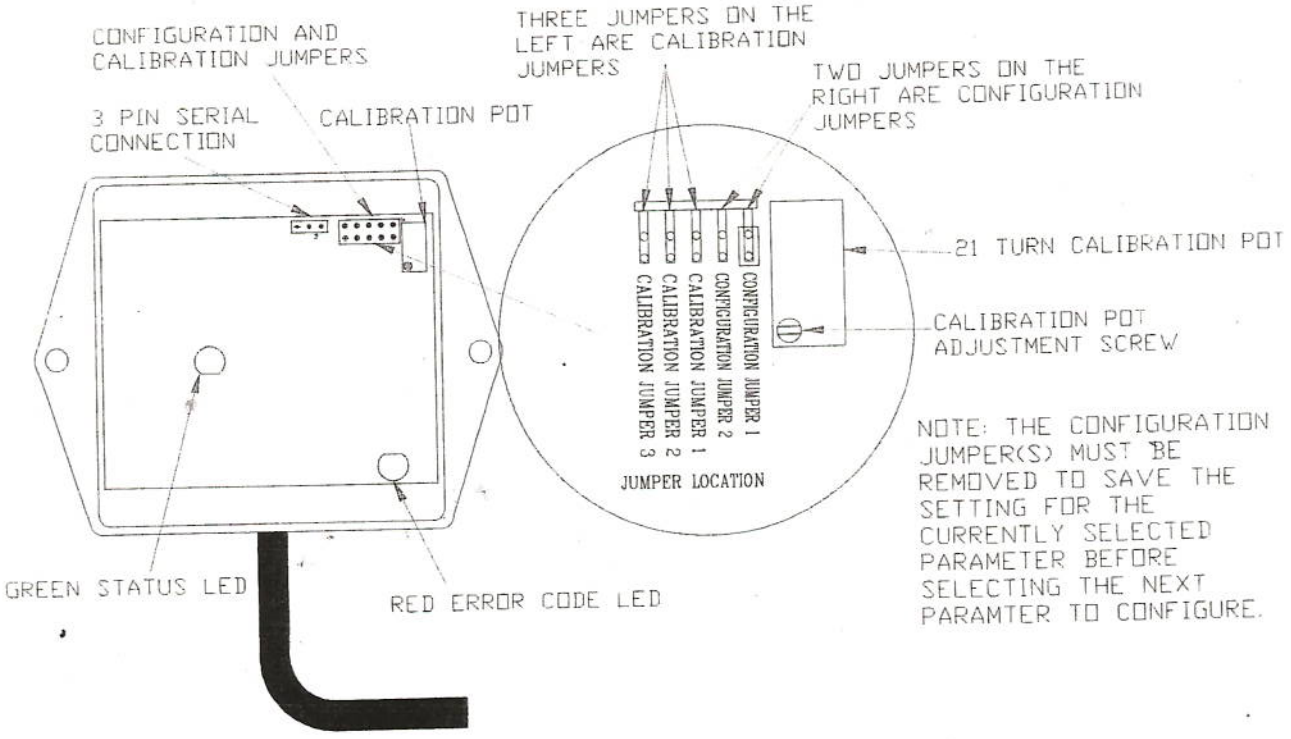


Table 1: Configuration Jumper Settings

Configuration Option	Configuration Jumpers to Install
1 Input / 1 Output	Configuration Jumper 1
1 Input / 2 Output	Configuration Jumper 2
2 Input / 2 Output	Configuration Jumpers 1 and 2

Table 2: Calibration Jumper Settings

Output Parameter	Calibration Jumpers to Install
Proportional Output 1 Minimum	Calibration Jumper 1
Proportional Output 1 Maximum	Calibration Jumper 2
Proportional Output 1 Ramp Time	Calibration Jumpers 1 and 2
Proportional Output 2 Minimum	Calibration Jumpers 1 and 3
Proportional Output 2 Maximum	Calibration Jumpers 2 and 3
Proportional Output 2 Ramp Time	Calibration Jumpers 1, 2, and 3
Proportional Outputs Frequency	Calibration Jumper 3



Configuration & Calibration Using the Jumpers -

The µVD can be configured and calibrated using the on-board jumpers. Refer to the jumper detail drawing on page 3 for the location of these jumpers.

To configure the µVD, first apply power to module. The green LED will flash when the unit is on. Then install the jumpers for the desired configuration as shown in table 1 on page 3.

The CONFIGURATION jumpers must be left installed for the configuration setting to remain active. Changing the configuration jumper settings at any time immediately changes the µVD configuration. **Warning: when any of the input/output pairs are initially made active by installing any of the configuration jumpers, if an input voltage is present on the input(s) when the configuration jumper is installed, the corresponding output(s) will immediately come on. Ensure that the outputs are not connected to the equipment when performing µVD configuration.**

Note: when the 1 Input/ 2 Output configuration is chosen, the input voltage range for analog input 1 is divided into a high side and a low side corresponding to the high side and low side from the center voltage of a joystick . The high side input corresponds to proportional output 1 and the low side corresponds to proportional output 2.

The individual output parameters can also be calibrated using the three CALIBRATION jumpers along with the 21 turn calibration pot. To set the individual parameters, install the jumper or jumpers to select the desired parameter as shown in table 2 on page 3. Then turn the adjustment screw on the calibration pot to increase or decrease the currently selected parameter. When the parameter has been adjusted to the desired level, **simply remove the jumpers and the new value will be saved.** Note: when calibrating µVD parameters using the calibration jumpers, the currently selected parameter will not change until the calibration pot adjustment screw has been turned one full turn in either the clockwise or counterclockwise direction.

To restore all of the µVD parameters to the default factory settings perform the following steps:

1. Remove power from the module.

2. Install all five jumpers (Configuration and Calibration).
3. Reapply power to the module. Both the red and green LEDs will come on and stay on steady.
4. After power has been on for five seconds, remove all five jumpers, then remove power.
5. Install desired Configuration jumpers and apply power.

At this point the µVD will power up with the factory calibration settings. When any of the inputs and outputs is then made active by installing the configuration jumpers, the inputs and outputs will initially have these factory settings. The factory calibration settings for 1 Input/ 1 Output or 2 Input/ 2 Output configurations are:

Analog Inputs
- Min. - 0.5V
- Max. - 4.5V

Proportional Outputs
- Min. - 400mA
- Max. - 1400mA
- Ramp times - 0 Sec.
- Freq. - 75Hz

The factory calibration settings for the 1 Input/ 2 Output configuration are:

Analog Input
- Low Side - 0.5-2.25V
- High Side - 2.75-4.5V

Proportional Outputs
- Min. - 400mA
- Max. - 1400mA
- Ramp times - 0 Sec.
- Freq. - 75Hz

Note: When returning the µVD to factory settings, any calibration adjustments that had previously been made will be lost.

16081 **Integrity Ag.** 5/1/2016

4RSPH65LAH (7)

PLUG #1 **KAR-TECH ENCLOSURE**

PIN #				Belden 8619
1	Blue		Airhead Potentiometer Pin 2 Command Signal Junction 2	8619
2	Orange		Airhead Potentiometer Pin 3 Command Signal Junction 3	8619
3	Black		Airhead Controller Power Supply Junction 4	8619
4				
5				
6				
7				
8				
9	Green		Secondary Potentiometer Pin 2 Command Signal Junction 14	8619
10	White / Black		Secondary Potentiometer Pin 3 Command Signal Junction 15	8619
11	Green / Black		Secondary Controller Power Supply Junction 16	8619
12	Black	0020	Kar-Tech Ground Junction 26 To Panel	P

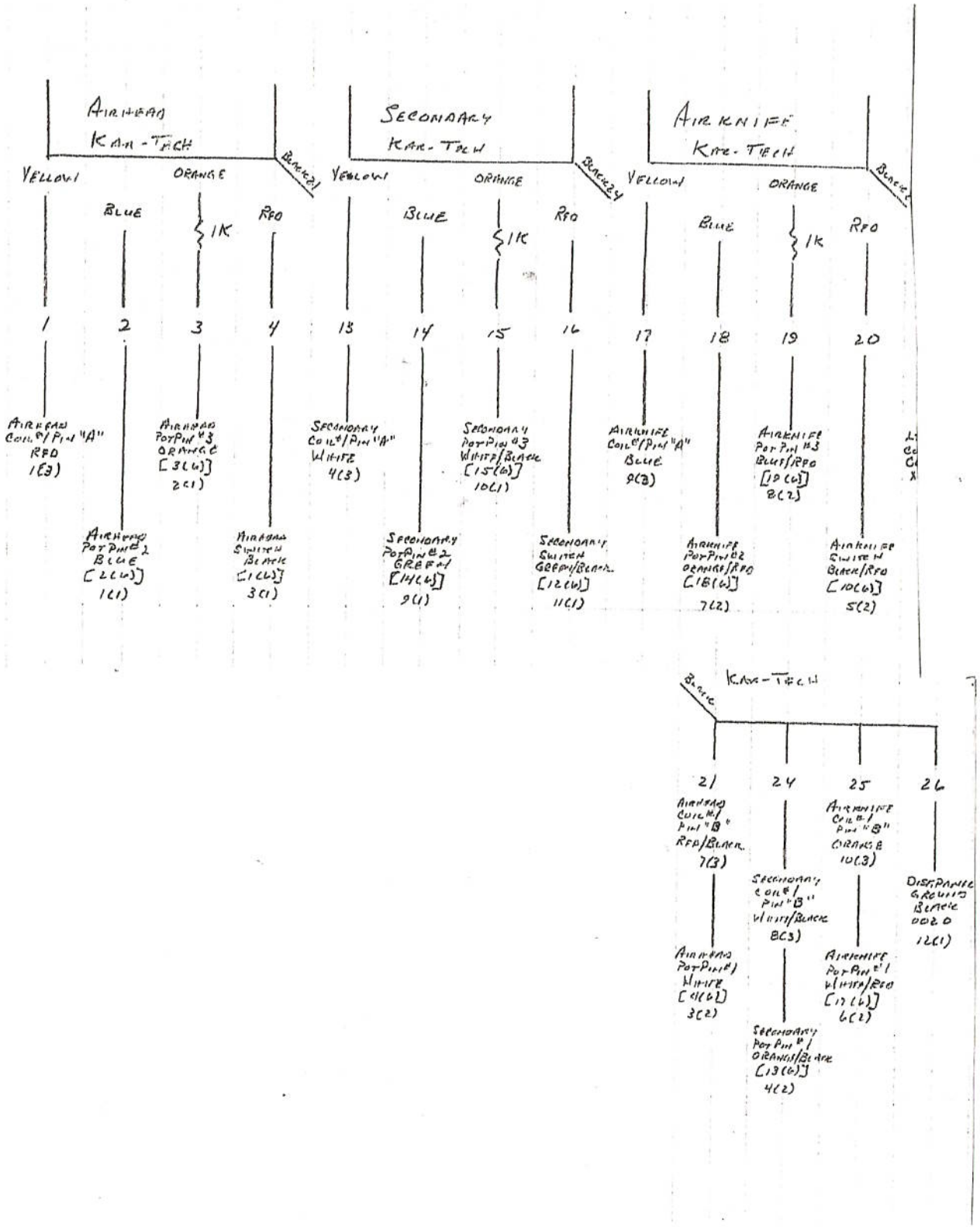
PLUG #2

PIN #			Belden 8619
1			
2			
3	White	Airhead Potentiometer Pin 1 To Junction 21	8619
4	Orange / Black	Secondary Potentiometer Pin 1 To Junction 24	8619
5	Black / Red	Trash Fan Controller Power Supply Junction 20	8619
6	White / Red	Airknife Potentiometer Pin 1 Command Signal Junction 25	8619
7	Orange / Red	Airknife Potentiometer Pin 2 Command Signal Junction 18	8619
8	Blue / Red	Airknife Potentiometer Pin 3 Command Signal Junction 19	
9			
10			
11			
12			

PLUG #3

PIN #			Belden 8468
1	Red	Airhead Junction 1 To Coil #1 - Pin "A"	8468
2			
3			
4	White	Secondary Junction 13 To Coil #1 - Pin "A"	8468
5			
6			
7	Red / Black	Airhead Coil #1 - Pin "B" - Junction 21	8468
8	White / Black	Secondary Coil #1 - Pin "B" - Junction 24	8468
9	Blue	Airknife Junction 17 To Coil #1 - Pin "A"	8468
10	Orange	Airknife Coil #1 - Pin "B" - Junction 25	8468
11			
12			

LEFT PRIMARY	1
RIGHT PRIMARY	2
AIR HEAD	3
SECONDARY	4
TRASH FAN	5


AIRHEAD
KAR-TECH
SECONDARY
KAR-TECH
AIR KNIFE
KAR-TECH
BLACK 21
BLACK 24
BLACK
YELLOW
ORANGE
BLUE
RED
1K
1
2
3
4
13
14
15
16
17
18
19
20
21
24
25
26
AIRHEAD COIL #1 PIN "A" RED 1(3)
AIRHEAD POT PIN #2 BLUE [2(4)] 1(1)
AIRHEAD POT PIN #3 ORANGE [3(4)] 2(1)
AIRHEAD SWITCH BLACK [1(4)] 3(1)
SECONDARY COIL #1 PIN "A" WHITE 4(3)
SECONDARY POT PIN #2 GREEN [14(4)] 9(1)
SECONDARY POT PIN #3 WHITE/BLACK [15(6)] 10(1)
SECONDARY SWITCH GREEN/BLACK [12(6)] 11(1)
AIRKNIFE COIL #1 PIN "A" BLUE 9(3)
AIRKNIFE POT PIN #2 ORANGE/RED [18(6)] 7(2)
AIRKNIFE POT PIN #3 BLUE/RED [19(6)] 8(2)
AIRKNIFE SWITCH BLACK/RED [10(6)] 5(2)
AIRHEAD COIL #1 PIN "B" RED/BLACK 7(3)
AIRHEAD POT PIN #1 WHITE [11(6)] 3(2)
SECONDARY COIL #1 PIN "B" WHITE/BLACK 8(3)
SECONDARY POT PIN #1 ORANGE/BLACK [13(6)] 4(2)
AIRKNIFE COIL #1 PIN "B" ORANGE 10(3)
AIRKNIFE POT PIN #1 WHITE/RED [17(6)] 6(2)
DISTRIBUTE GROUND BLACK 0020 12(1)