

25 PIN CONNECTOR WIRING INSTRUCTIONS

PREPARING THE CONTROL CABLE

1. Strip the jacket and aluminum shielding off of the control cable as shown in [figure 5.20](#), approximately 2.75" from end of control cable, being careful not to damage the individual wires.
2. Strip the plastic insulation off of each of the control cable wires, approximately 0.25" in length should be bare wire.

CONNECTING CONTROL CABLE TO THE DB25 SOLDERED CONNECTOR

If you purchased the default DB25 connector, follow the steps below to connect it to your control cable. **If you purchased the optional DB25 Field Splice upgrade, skip ahead to the next section.**

1. Solder each wire to the appropriate pin of the 25 pin connector. Refer to the table on the following page for the correct wiring sequence.
2. Attach the clamp to the control cable approximately 1" from the connector and secure with the provided hardware as shown in [figure 5.21](#).
3. Place the connector between the back-shell halves as shown in [figure 5.22](#) and secure with the provided hardware.



CONNECTING CONTROL CABLE TO THE OPTIONAL DB25 FIELD SPLICE

The optional DB25 Field replaces the standard connector with a convenient solder-less connection of the control cable to the SteppIR controller. If you purchased this option, follow the steps below to connect it to your control cable.

1. Apply the provided dielectric grease to the exposed copper portion of each wire.
2. Connect each wire to the appropriate terminal and tighten using a flat head screwdriver. **Note that the terminals may be closed by default. If so, turn the terminal screw ccw ~10 turns to open it before inserting the wires.** Consult the table on the next page for the correct wiring sequence.
3. Position the control cable between the cable clamp halves as shown in [figure 5.23](#).
4. Tighten the two pan head screws until the cable is snug, but do not over-tighten.
5. Thread the two thumb screws into the connector face as shown in [figure 5.23](#).
6. Plug the DB25 splice into the back of the controller and twist the thumb-screws to secure it.



FIG. 5.20

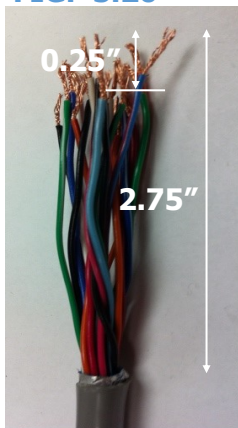


FIG. 5.21

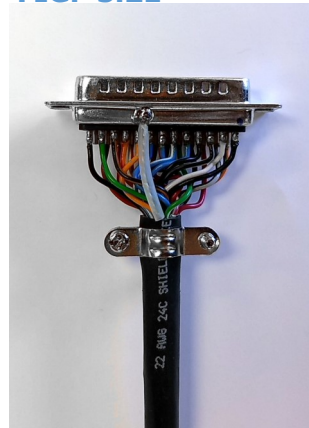


FIG. 5.22

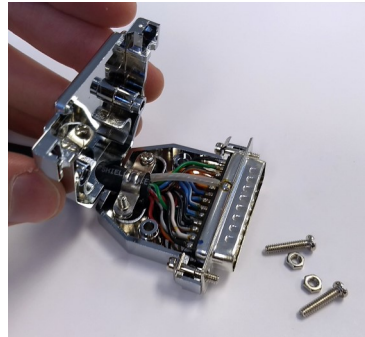
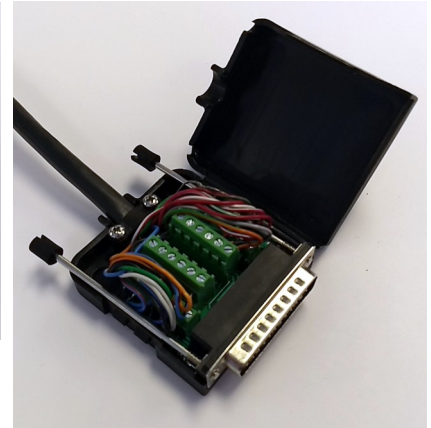


FIG. 5.23



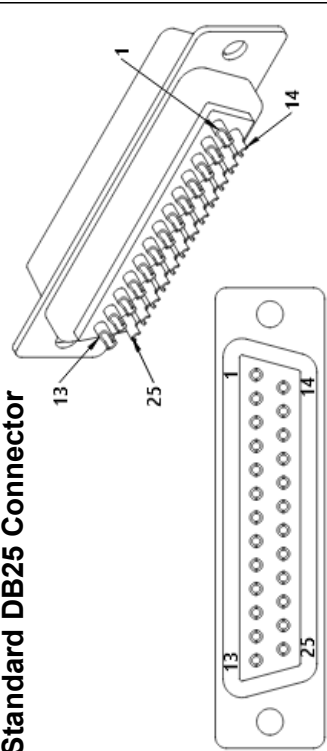
CONNECTING CONTROL CABLE TO THE DB25 FIELD SPLICE

Refer to the table below for the correct wiring sequence when connecting your control cable to your 25 pin connector.

Pin	DB42, DB36 (w/80m) (24 Conductor)	4E, DB36 (No 80m) (16 Conductor)	DB11, DB18/18E (16 Conductor)	2E, 3E (12 Conductor)	BigIR/SmallIR w/Coil (2x4 Conductor)	BigIR, SmallIR, Dipole (4 Conductor)
1	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
2	WHITE	RED	RED	BROWN	RED	RED
3	WHITE/BLACK STRIPE	GREEN	GREEN	RED	GREEN	GREEN
4	BLACK/WHITE STRIPE	WHITE	WHITE	ORANGE	WHITE	WHITE
5	BLUE	BROWN	BROWN	YELLOW	BLACK	BLACK
6	BLUE/WHITE STRIPE	BLUE	BLUE	GREEN	RED	RED
7	BLUE/RED STRIPE	ORANGE	ORANGE	BLUE	GREEN	GREEN
8	BLUE/BLACK STRIPE	YELLOW	YELLOW	VIOLET	WHITE	WHITE
9	ORANGE	VIOLET	VIOLET	GREY		
10	ORANGE/RED STRIPE	GREY	GREY	WHITE		
11	ORANGE/BLACK STRIPE	PINK	PINK	PINK		
12	GREEN	CREME	CREME	CREME		
13	BLACK/RED STRIPE		WHITE/ORANGE STRIPE			
14	ORANGE/GREEN STRIPE	WHITE/BLACK STRIPE				
15	WHITE/BLACK-RED	WHITE/RED STRIPE				
16	RED/BLACK-WHITE	WHITE/GREEN STRIPE				
17	BLACK/WHITE-RED	WHITE/ORANGE STRIPE				
18	GREEN/WHITE STRIPE					
19	GREEN/BLACK STRIPE					
20	RED					
21	RED/WHITE STRIPE					
22	WHITE/RED STRIPE		WHITE/RED STRIPE			
23	RED/BLACK STRIPE		WHITE/BLACK STRIPE			
24	RED/GREEN STRIPE		WHITE/GREEN STRIPE			

Solder the unshielded drain wire of the control cable to the chassis (ground) of the Standard 25 Pin Connector, or one of the "G" pins on the optional Field Splice Connector

Standard DB25 Connector



DB25 Field Splice

