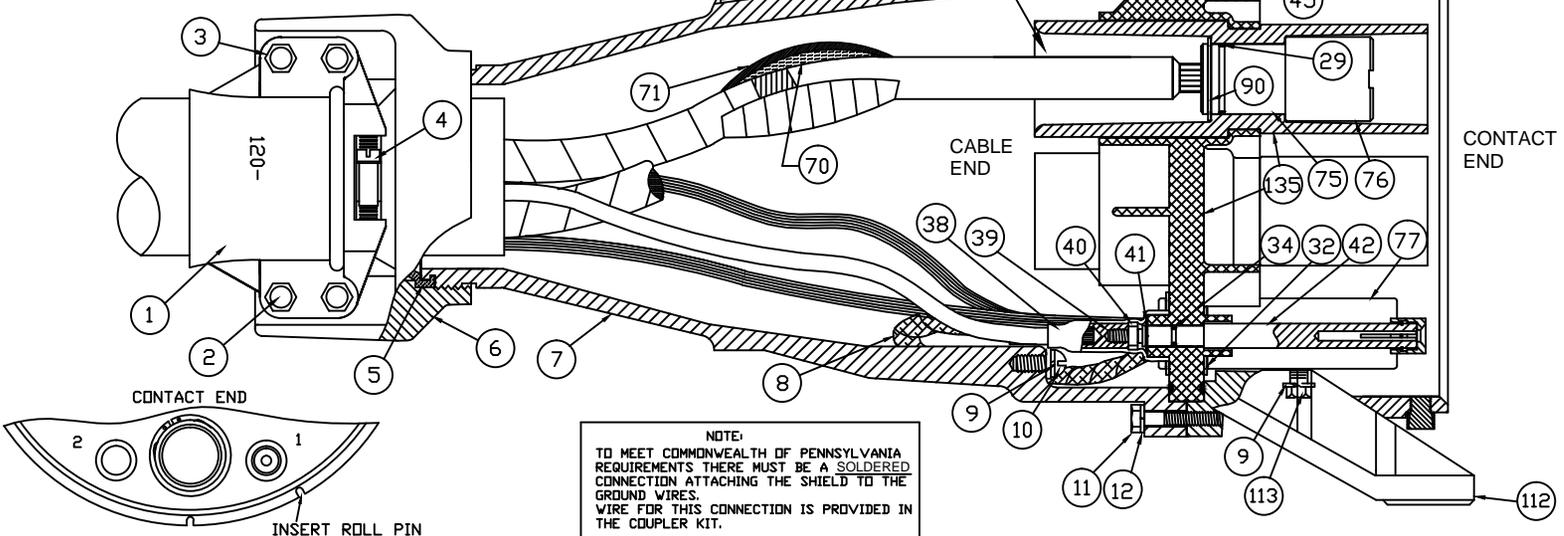
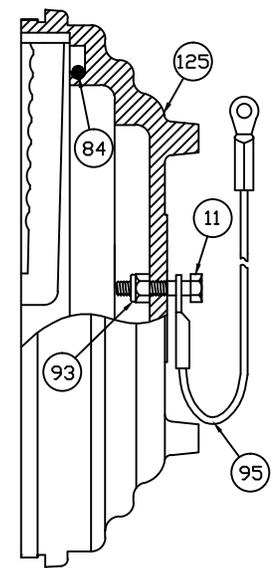


FOR USE ABOVE  
7200 VOLTS FILL  
BACK OF TUBES WITH  
TJB #75-12 (3M #2123)  
OR TJB #74-8 (3M #2130)



NOTE:  
TO MEET COMMONWEALTH OF PENNSYLVANIA  
REQUIREMENTS THERE MUST BE A SOLDERED  
CONNECTION ATTACHING THE SHIELD TO THE  
GROUND WIRES.  
WIRE FOR THIS CONNECTION IS PROVIDED IN  
THE COUPLER KIT.



- Remove the end casting (6) from the end bell (7) and slide the end casting back over the cable, followed by the hose clamp (4), the cable seal (5) and finally the end bell.
- Remove 14" (36cm) of the cable jacket as shown in FIGURE 2. Be careful not to cut into the underlying conductors. Fold the ground and ground check wires back and out of the way.
- Remove the shield for 9-1/2" (24cm). Unwrap and remove the semi-con for 1/2" (1.3cm) less.
- Remove 1-1/2" (3.8cm) of the insulation from the end of the phase conductors. Clean the surface of the insulation up to the edge of the semi-con with the solvent and cloth provided.
- DO NOT install the contact retaining rings before soldering (the heat will cause the ring to lose its tempering). Prior to soldering, apply Teflon tape to the grooves to prevent solder from filling in the grooves, or use an acid brush to remove solder from the grooves while the contact still hot.
- Solder attach the phase conductors into the phase contacts (75) using (preferably) 50-50 solder. DO NOT cool the contact with water, as this may cause a cold solder joint (high resistance).
- Insert the cable ground wires and the ground strap (8) (provided in the coupler kit) into the ground contact (77) so that the ground strap will be positioned at the bottom of the coupler and solder attach them. Slide the heat shrink tubing (38) back over the ground check conductor. Strip 1/2" (1.3cm) of insulation from the ground check conductor and solder attach it to the solder pot (39).
- With the liner side of the tape toward the insulation, apply the first wrap of stress relief tape over-lapping the factory applied cable shield by 1/2" (1.3cm) then, stretching the tape 10-15 percent (that would take the original 3/4" (1.9cm) width to 1 1/16" (1.74cm), wrap toward the contact for a length of 3" (7.6cm). The last wrap should be square/perpendicular with the conductor. Reverse the slant of the taping and apply a second half-lapped layer back to the starting point. Cut off any excess tape.
- Starting on the cable shield, wrap insulating tape toward the contact using half-lapped wraps, pulling the tape tightly. Tape to 1/2" (1.3cm) past the stress tape. Reverse the slant and tape until it is used up. The last turn should be applied, un-stretched and pressed tight to seal.

- PLEASE NOTE: There are two different types of contact retaining rings provided. The ring bagged separately is stainless steel and is used on the contact end of the ground contact
- Insert the PLATED STEEL retaining rings (90) into the groove on the cable end of the phase (75) and ground (77) contacts. Install the o-rings (29) into the adjacent wider groove on both the phase and ground contacts.
- Slide the insulator over the phase contacts and thread the nuts (76) onto the contacts. Then insert the ground contact (77) into insulator plate and attach the STAINLESS STEEL retaining ring (32).
- While holding the solder pot (39) in place, turn the ground check contact (42) from the front side threading it into the solder pot until the jam nut (40) is finger tight against the solder pot, then tighten the nut with a wrench while holding the pot with pliers. Slide the shrink tube over the ground check extension on the insulator plate. While shrinking it into place, with a heat gun or small flame, put slight pressure on the shrink tube to keep it seated on the insulator plate. The shrink tube contains a sealant to prevent moisture contamination of the joint.
- Slide the end bell (7) forward far enough to attach the ground strap to the threaded hole inside the end bell using the plated brass screw (10) and lock washer (9) provided. Then while feeding in the slack ground strap so that it lies against the inner surface of the bell, seat the bell against the insulator aligning the roll pin with the slot in the insulator that is off center (as shown in FIGURE 1). Align the roll pin in the socket body with the same slot on the insulator and attach the socket body to the end bell using the 1-1/4" bolts (11) and lock washers (12) provided.
- Seat the lip on the cable seal (5) into the slot on the end bell. Thread the end casting (6) onto the end bell and hand tighten. Slide the hose clamp (4) onto the cable seal and bolt the cable clamps (1) loosely onto the end casting. Position the hose clamp so that the screw is accessible from the window on the cable clamp. Tighten the hose clamp on the cable seal to form a tight seal on the cable. Tighten the bolts and nuts on the cable clamps so that the cable is centered in the bell and properly clamped. THE CLAMPS DO NOT HAVE TO BE TIGHTENED DOWN ALL THE WAY TO THE END CASTING!

| ITEM No. | QTY | PART No.  | DESCRIPTION                                 |
|----------|-----|-----------|---|
| X        | 1   | 489       | WIRE WRAP                                   |
| XX       | 1   | 181       | 1/4-20 X 5/8 HEX HEAD CAPSCREW              |
| 1        | 2   | 120-      | CABLE CLAMP                                 |
| 2        | 4   | 167       | 3/8-16 X 3" HEX HEAD TAPP BOLT              |
| 3        | 4   | 168       | 3/8-16 HEX LOCKNUT                          |
| 4        | 1   | 187       | STAINLESS STEEL HOSE CLAMP                  |
| 5        | 1   | 123       | CABLE SEAL                                  |
| 6        | 1   | 112A      | END CASTING                                 |
| 7        | 1   | 111C1     | END BELL                                    |
| 8        | 1   | 191       | GROUND STRAP WITH TERMINAL                  |
| 9        | 5   | 190A      | 5/16 LOCKWASHER                             |
| 10       | 1   | 190       | 5/16-18 X 5/8 GROUND SCREW-BRASS            |
| 11       | 7   | 183       | 1/4-20 X 1-1/4 HEX HEAD CAPSCREW            |
| 12       | 6   | 202       | 1/4" LOCKWASHER                             |
| 29       | 4   | 228       | CONTACT O-RING                              |
| 32       | 1   | 1735      | 1-1/4" RETAINING RING - STAINLESS STEEL     |
| 34       | 2   | 519       | GROUND CHECK O-RING                         |
| 38       | 2   | 180       | 3" GROUND CHECK INSULATOR SHRINK TUBE       |
| 39       | 2   | 135       | GROUND CHECK TERMINAL (SOLDER POT)          |
| 40       | 2   | 177       | 1/4-20 HEX BRASS JAM NUT                    |
| 41       | 2   | 517       | 3/8" GROUND CHECK RETAINING RING            |
| 42       | 2   | 523/COMP  | FEMALE GROUND CHECK ASSEMBLY                |
| 45       | 2   | 520       | INSULATOR O-RING                            |
| 70       | 1   | 216B      | STRESS RELIEF TAPE                          |
| 71       | 1   | 216A      | INSULATING TAPE                             |
| 75       | 3   | 101-6     | FEMALE THREADED PHASE CONTACT               |
| 76       | 3   | 241       | FEMALE PHASE CONTACT NUT                    |
| 77       | 1   | 143       | FEMALE GROUND CONTACT                       |
| 84       | 1   | 169       | O-RING                                      |
| 90       | 4   | 173       | 1-1/4" RETAINING RING-PLATED STEEL          |
| 93       | 1   | 194       | 1/4-20 HEX STEEL LOCKNUT                    |
| 95       | 1   | 171       | 2-1/2" COVER CABLE                          |
| 106      | 4   | 185R      | N/T PIN - ROLLER TYPE                       |
| 110      | 1   | 109C      | NO-THREAD SOCKET BODY                       |
| 112      | 1   | 110AR/AL  | SOCKET FEET-RIGHT AND LEFT                  |
| 113      | 4   | 172       | 5/16-18 X 7/8 HEX HEAD CAPSCREW             |
| 125      | 1   | 215       | NO-THREAD SOCKET DUST COVER                 |
| 135      | 1   | 200-104BK | FEMALE INSULATOR ASSEMBLY-HARD RUBBER TUBES |
| 140      | 1   | 185J      | AUTOLIGN PIN                                |
| 198      | 1   | 368-4     | MODEL TAG                                   |