Description:

The PST-TJ Tee Splice Connection Kit is for use with all versions of Serge Baril's FPS, SCS & CCA heater cables. Compatible for use with any vendor's heater cables smaller than 11mm (0.44") dia.

Kit Contents:

- 1 Junction Box
- 1 Box Cover Gasket
- 1 Box Cover
 - Terminal Block
- 1 Conduit Locknut
- 2 Sealing Grommets
- 1 Stand-off

1

- 1 Connection Fitting
- 1 Grommet Retaining Cap

INSTALLATION INSTRUCTIONS

Uninsulated Splice Connector

3 Power Terminations

1 Box Adapter

End Seal Tube of Silicone

Pipe Clamps

Flex Tubing

2 Gaskets

1

1

1

2

1



- Canadian Div. 2 Hazardous installations must use internal ground connection of braid. See sheet 8 of 8.
- Article 427 of the National Electric Code requires that all heaters shall have metal coverings and be provided with branch circuit ground-fault protection.
- If nuisance tripping of ground fault breakers occurs due to condensation in junction box, electrical connection should be moisture proofed by use of a coating or sealant.



SERGE BARIL PST-TJ

TEE SPLICE CONNECTION KIT

FOR ORDINARY AND DIVISION 2 HAZARDOUS LOCATIONS

STAND-OFF POSITIONING

Section View A A

8 o'clock 4 o'clock 203mm (8" 305mm (12") 457mm (18")

***ITEMS NOT INCLUDED IN KIT.**



• Cut heater cables to lengths shown.

2 External Braid Connection - B Products only:

- Remove braid from heater cables, back to the point the cables leave the pipe. See Sheet 3 of 8.
- Proceed to step 3 below.

Internal Braid Connection - B, BT or BA Products:

Proceed to step 3 below.



- Place stand-off on pipe and fasten with pipe clamps.
- **5** Slide the large opening sealing grommet over the two heater cables and position inside stand-off opening.



INSTALLATION



- 6 Apply silicone around the heater cables at top of sealing grommet and fill any voids in sealing grommet.
- Slide the box adapter over the two heater cables and tighten securely to stand-off.
- **8** Install flex tubing over the 457mm (18") length heater cable; tape at pipe tee with fiberglass tape. (Fiberglass tape is not included in kit.)
- **9** Slide the sealing grommet over the single heater cable and position inside the connection fitting.
- Apply silicone around the heater cable at top of sealing grommet and fill any voids in sealing grommet.
- Prepare heater cables for power termination: for braided products, see sheet 3 of 8. for overjacket products, see sheet 4 of 8. for base products, see sheet 5 of 8.
- Carminate heater cables, see sheet 7 of 8.





SERGE BARIL PST-TJ TEE SPLICE CONNECTION KIT

FOR ORDINARY AND DIVISION 2 HAZARDOUS LOCATIONS

INSTALLATION **INSTRUCTIONS**

BRAIDED PRODUCTS





B While bending the heater cable, work it through the braid opening.





4 Pull the braid tight.

9 Proceed to "FPS, SCS & CCA Products", sheet 5 of 8.



For heater cable going through the flex tubing move braid back 457mm (18") to create a bulge.

For heater cable going through the stand-off move braid back 305mm (12") to create a bulge.

Internal Braid Connection:

Move braid back 127mm (5") to create a bulge.



2 At the bulge, separate the braid to make an opening.



SERGE BARIL PST-TJ TEE SPLICE CONNECTION KIT

FOR ORDINARY AND DIVISION 2 HAZARDOUS LOCATIONS

INSTALLATION INSTRUCTIONS

OVERJACKET PRODUCTS





INSTALLATION INSTRUCTIONS

FOR ALL SERGE BARIL FPS, SCS & CCA PRODUCTS (See sheet 6 of 8 for an alternate method of SCS products.)



Shave the core material from the outsid each bus wire.



SERGE BARIL PST-TJ TEE SPLICE CONNECTION KIT

FOR ORDINARY AND DIVISION 2 HAZARDOUS LOCATIONS

INSTALLATION INSTRUCTIONS

SCS PRODUCTS ALTERNATE METHOD





INSTALLATION INSTRUCTIONS

POWER TERMINATION

A WARNINGS:

- Bus wires must not touch or cross while inserting into power termination.
- Only power terminations / end seals specifically approved for the vendor's style and type of heater cable be used.



• Insert bus wires into power termination.

Squeeze power termination opening and fill with silicone.

END SEAL



Braided Products:

Cut braid back 25mm (1") & tape in place with fiberglass tape (not included in kit).

Overjacket Products:

Remove 13mm (0.5") of overjacket exposing the braid, then remove the 13mm (0.5") of exposed braid.

• Make a 10mm (0.4") cut at the end of the heater cable.



B Push power termination to overlap jacket.

At this point, if you're installing the end seal, see the "End Seal" section below. Otherwise, proceed to "Power Connection", sheet 8 of 8.





• Push end seal over the heater cable.

Overjacket Products:

End seal should overlap the overjacket.

• The silicone will set up in about 30 minutes with a complete cure after 24 hours.

• Proceed to "Power Connection", sheet 8 of 8.

A WARNINGS:

- Do not megger or hi-pot until silicone is completely cured.
- Braid must be kept away from, bus wires or shorting will occur.



HT-408-150530 Sheet 7 of 8

INSTALLATION INSTRUCTIONS



POWER CONNECTION

Note: This detail shows internal grounding of braid.



• Place gasket on the box adapter.

- **2** Position the junction box on the box adapter and secure it with the conduit locknut.
- B Place gasket on the flex tubing assembly and connect to junction box using the grommet retaining cap. (Braid if present, should be separated from the heater cable in a pigtail as it leaves the sealing grommet entering the enclosure.)



Ocnnect bus & power wiring to terminal block.

5 Ground Connection: **External Ground Connected Heaters:**

Connect ground braid from all heater cables using the uninsulated splice connector. See diagram on sheet 1 of 8.

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Internal Ground Connected Heaters:

Connect ground braid from all heater cables to terminal block. See diagram above.

Overjacket BT or BA Products Only: Apply silicone at point braid leaves the overjacket

Push all wires, cables and the terminal block inside junction box.

8 Place the box cover and box cover gasket onto the junction box.

