



PO Box 117, 18781 County Rd 22
Glenwood MN, 56334
320-634-4772;800-443-2136
www.Tanisaircraft.com

INSTRUCTION:
TN02594
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APPROVAL: _____

INSTRUCTION FOR CONNECTOR CONVERSION (Spade type CNA and CNE, to DT series)

General overview:

This instruction is for the conversion of Tanis silicon insulated cabling and element leads to the DT series connectors. Cabling must be in serviceable condition with approximately two (2) inches of extra length (slack) where the connection is to be changed. The spade connector is cut off, wires are prepared, and the DT series connector is installed. This process may also be used as a splice. This is accomplished by installing a complete DT connector assembly, receptacle, and plug. Reference, Tanis Connector Instruction 192,

Installation hardware 2 wire:

- A TX02598, DT series 2 Contact Receptacle/Female Connector Assembly, Field Install.
- A TY02598, DT series 2 Contact Plug/Male Connector Assembly, Field Install.
- A 1.5 inch piece of SUM-B2-3X-1/2-4," high temp yellow shrink or equivalent.

Installation hardware 3 wire:

- A TX02603, DT series 3 Contact Receptacle/Female Connector Assembly, Field Install.
- A TY02603, DT series 3 Contact Plug/Male Connector Assembly, Field Install.
- A 1.5 inch piece of SUM-B2-3X-1/2-4," high temp yellow shrink or equivalent.

Required tools:

- Wire cutters
- Wire stripper (18-20 gauge)
- Tanis 4 way crimp tool, TU02793 or proper equivalent.

Installation:

1. Disconnect system from AC power supply and verify with voltage meter.
2. Gain access to the cabling by removing securing hardware as required, (cable ties, Adel clamps).
3. Cut existing connector ends off cabling as close as possible to the connector.
4. Trim the red wire sleeve back on cable approximately 1 inch.
5. Slide heat shrink over the wire and sleeving (do not shrink).
6. Strip insulation from wire as per Instruction, 192.
7. Install new connectors to wire per Tanis instruction 192.

Note: Dialectic grease, or silicone spray, applied to the connector's rear seal helps with assembly.

- a. Summary for Plug and Receptacle assembly:
- b. Align crimped socket contacts straight into connector seal, per polarity. (Black wire:1; White wire:2. If installing 3 wire connector, Green wire:3)
- c. Push contact until an audible click is heard from the engagement of internal retention tab. Give a slight pull will confirm the contact is locked in place.
- d. Once the contacts are in place, insert appropriate wedge retainer.
8. Slide the heat shrink, installed in step 5, toward the connector body.
9. Shrink the heat shrink tubing in place on the sleeving, positioned to cover the sleeve edge. This is to help keep the sleeving from fraying and reduce the chance of the introduction of dirt and grease.
10. Connect new ends and verify enough slack is left that wires are not pulled tight.
11. Re-secure wires and connector assembly, supporting the connector with cable tie or by other means, so that the mass of the connector is not suspended by cabling alone.

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