



INSTRUCTION – STANDARD CONNECTOR

Subject: Electrical connector configuration and instruction resource.

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RECORD OF REVISIONS

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1. PURPOSE

The purpose of this document is to outline standard connector configuration and repair procedures that may be used when replacing an element or part in association with electrical connector types in this instruction. It also contains a brief account of connectors used in the past and rational for the standard now in use.

Changeover of existing systems to match this standard configuration is not compulsory. However, may be required when replacing an element or part configured with a standard connector.

2. DESCRIPTION

Where voltage or current is enough to cause damage or injury, standard connector configuration assigns concealed socket contacts to the power source and exposed pin contacts to the device plugging into the power source, refer to Figures 4.1 and 4.2.

Before making any changes refer to Supporting Documents listed in Section (§) 5.

3. BACKGROUND

October of 2009, sealed connectors (Deutsch DT type) were introduced into the Tanis product line effectively replacing CNA and CNE (3M spade type) connectors. These sealed connectors were selected to improve product maintainability, reliability, and safety.

During this transition there were cases where connectors were installed based on traditional gender terminology, male and female. Unfortunately, connectors that appeared to be "female" had exposed male pin contacts, and "male" connectors female socket contacts.

To address this issue and eliminate any confusion, connectors were renamed and numbered to reflect a standard connector configuration based on contact type rather than gender. Current production kits and parts are configured with socket connectors supplying power to pin connectors.

Accordingly, to conform with standard connector configuration, element replacement or repair may require connector conversion on power lead, replacing element connector is not recommended. For standard configuration refer to Figures 4.1 and 4.2.

PROPRIETARY DATA

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4. FIGURES

This section contains examples of standard connector configuration with part numbers (p/n:).



Figure 4.1. Standard connector configuration:

Power lead (outlet): Socket connector, p/n: TCS2598.

Elements or component (load): Pin connector, p/n: TCP2598.

Note: Element part number prefix, TEP (pad element) or TTP (threaded element), denotes element pin connector (P) which requires corresponding socket connector (S).



Figure 4.2 Standard electrical configuration assigns concealed socket contacts to connections where voltage or current may cause damage or injury. Element replacement or connector splice may require connector replacement to match standard electrical configuration

Changeover of existing systems to match standard configuration is not compulsory. However, may be required during element replacement and/or cable repairs when replacement part is supplied with standard connector configuration refer to Figure 4.1.

5. SUPPORTING DOCUMENTS

Documents contain additional system descriptions, regulatory information, connector conversion guidance, installation and tooling requirements.

Repairs are to be done with reference to AC 43.13-1 (as amended) Chapter 11: Routing, securing, fusing, tying and clamping, §§ 8 through 12, splicing and terminal repairs §§ 13 and 14.

- TNG1000, Installation Guide.
- TN02594, Instruction - Connector Conversion.
- TN02793, Instruction - Connector.

***** NOTHING FOLLOWS *****