

CONTENTS:

MATERIAL LIST SHEET 1
 LEGEND SHEET 2
 WIRE DIAGRAM SHEETS 3-5

① SUPPLIED AT SYSTEM LEVEL

② INSTALLED AT MANUFACTURE

TC02875, CABLE KIT

8	3	VARIES	①	INDICATOR LIGHT	(NON-FILIMENT TEST WITH POWER)
7	3	VARIES	①	CIRCUIT PROTECTION	
6	2,3	VARIES	①	SHORELINE POWER PLUG	
5	2,3	0413-217-1605	②	LOCKING SEALING PLUG	(FOR OPEN LOCATIONS ON JUNCTIONS)
4	2,3	DT06-2S-C017	1	CONNECTOR SEALING CAP, GRAY	
3		0460-202-16141	12	PIN CONTACT	USE AS REQUIRED (EXTRAS)
2	2-5	TCP2598	17	PIN CONNECTOR KIT	CONNECTOR BODY DT06-2S
1	3	TC02594-181N018G	1	CABLE 18 GAUGE 18 INCH GROUND WIRE	
E	4	TJ02875-03-E	1	JUNCTION E, RIGHT ENGINE	LEADS, 15-17
D	4	TJ02875-03-D	1	JUNCTION D, LEFT ENGENE	LEADS, 12-14
C	5	TJ02875-05-C	1	JUNCTION C, MRGB	LEADS, 18-22
B	4	TJ02875-05-B	1	JUNCTION B, UPPER DECK	LEADS, 07-11
A	3	TJ02875-05-A	1	JUNCTION A, POWER	LEADS, 01-06

ITEM	SHT	PART NUMBER	QTY	DESCRIPTION	SPECIFICATIONS
------	-----	-------------	-----	-------------	----------------

MATERIAL LIST

CURRENT REV APPROVAL				DRAFTSMAN	DIRK ELLIS	SEP-28-2011	TITLE:		
				CHECKED BY	GLEN OLIN	SEP-28-2011	CABLE KIT		
				SCALE	NOT TO SCALE		(CABLE ASSEMBLY TC02875, EC155 ARRIEL 2C2)		
A	ECR 2011-0006, AND REDRAW	JAN-15-2013	GDO	 TANIS AIRCRAFT PRODUCTS GLENWOOD MUNICIPAL AIRPORT GLENWOOD, MN 56334 USA +1.952-224-4425				SPEC: N/A	
-	INITIAL RELEASE	SEP-28-2011	DNE					SUPERSEDES: N/A	
REV.	CHANGE	DATE	INT					DRAWING: 02875	SHEET: 1 OF 5

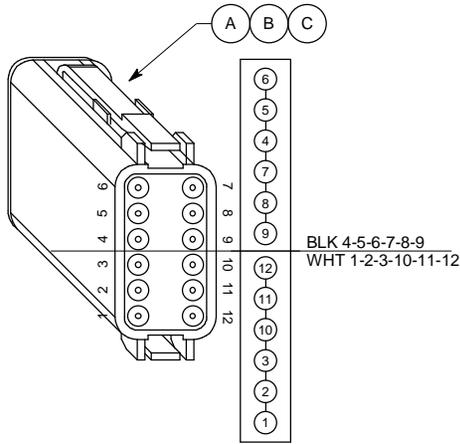
THE INFORMATION CONTAINED IN THIS DOCUMENT AND ALL OTHER ASSOCIATED DOCUMENTS IS PROPRIETARY TO TANIS AIRCRAFT PRODUCTS AND WILL NOT BE REPRODUCED DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WITH DIRECT WRITTEN AUTHORIZATION FROM TANIS AIRCRAFT PRODUCTS.

LEGEND:

AC POWER COMPONENTS IN PARALLEL
NEC/NEMA COLOR CODE
BLACK - WIRE HOT
WHITE - WIRE NEUTRAL
GREEN - PROTECTIVE GROUND

DIAGRAM USED FOR 115 AND 230 VOLT SYSTEMS.
DESIGNED FOR OPERATION AT PLUS OR MINUS 10% OF SYSTEM VOLTAGE REQUIREMENT
VOLTAGE REQUIREMENT CALLED OUT BY SYSTEM PART NUMBER.
CIRCUIT PROTECTION NOT TO EXCEED 12 AMPS.

PIN CONFIGURATION:



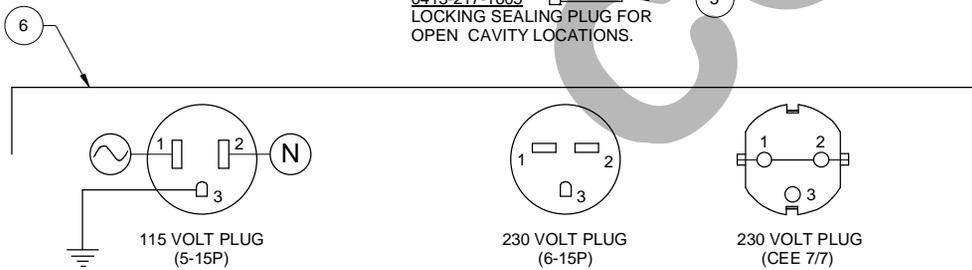
6 LEAD JUNCTION ASSEMBLY (TCJ3012):

- 1 EA. DT04-12PB-P026, BUSSED RECEPTACLE
- 1 EA. DT06-12SB, MATING PLUG
- 1 EA. W12S, CONTACT WEDGE
- A/R. 0462-201-16141, SOCKET CONTACT
- A/R. 0413-217-1605, LOCKING SEALING PLUG

4 LEAD JUNCTION ASSEMBLY (TCJ3008):

- 1 EA. DT04-08PB-P026, BUSSED RECEPTACLE
- 1 EA. DT06-08SB, MATING PLUG
- 1 EA. W8S, CONTACT WEDGE
- A/R. 0462-201-16141, SOCKET CONTACT
- A/R. 0413-217-1605, LOCKING SEALING PLUG

0413-217-1605
LOCKING SEALING PLUG FOR OPEN CAVITY LOCATIONS.



115 VOLT PLUG CONFIGURATION

1. HOT LINE "BLK" TO BRASS OR BLACK SCREW TERMINAL
2. NEUTRAL LINE "WHT" TO SILVER SCREW TERMINAL
3. EARTH/GROUND "GRN" TO GREEN SCREW TERMINAL

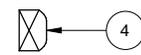
230 VOLT PLUG CONFIGURATION

1. 115V LINE "BLK" TO BRASS OR BLACK SCREW TERMINAL
 2. 115V "WHT" TO BRASS OR BLACK SCREW TERMINAL
 3. EARTH/GROUND "GRN" TO GREEN SCREW TERMINAL
-
1. 230-VOLT LINE "BLK" TO BRASS OR BLACK SCREW TERMINAL
 2. NEUTRAL LINE "WHT" TO BRASS OR BLACK SCREW TERMINAL
 3. EARTH/GROUND "GRN" TO GREEN SCREW TERMINAL

**SEALING CAP AND PLUG
2 AND 3 CONTACT CONNECTORS:**



SEALING CAP 2 SOCKET CONNECTOR
1 EA. DT04-2P-C017



SEALING PLUG 2 PIN CONNECTOR
1 EA. DT06-2S-C017

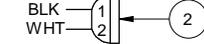
SEALING CAP 3 SOCKET CONNECTOR
1 EA. DT04-3P-C017

SEALING PLUG 3 PIN CONNECTOR
1 EA. DT06-3S-C017

2 CONTACT CONNECTOR KITS



TCS2598 - SOCKET CONNECTOR
1 EA. DT06-2S-E004, SOCKET BODY
1 EA. W2S, WEDGE
2 EA. 0462-201-16141, SOCKET CONTACT



TCP2598 - PIN CONNECTOR
1 EA. DT04-2P-E004, PIN BODY
1 EA. W2P, WEDGE
2 EA. 0460-202-16141, PIN CONTACT

3 CONTACT CONNECTOR KITS:

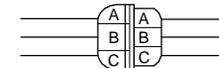


TCS2603 - SOCKET CONNECTOR
1 EA. DT06-3S-E004, SOCKET BODY
1 EA. W3S, WEDGE
3 EA. 0462-201-16141, SOCKET CONTACT



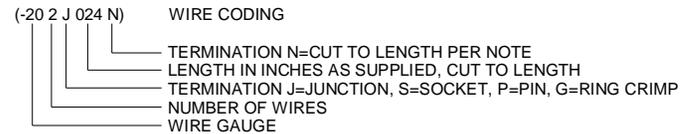
TCP2603 - PIN CONNECTOR
1 EA. DT04-3P-E004, PIN BODY
1 EA. W3P, WEDGE
3 EA. 0460-202-16141, PIN CONTACT

CABLING:



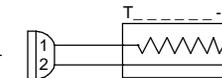
CONNECTOR JOINING TO BE PERFORMED IN THE FIELD BY INSTALLER.
JUNCTION RECEPTACLE, WEDGE, AND PLUG ASSEMBLED BY MANUFACTURER WITH TERMINATIONS AS CALLED OUT.

GREEN - 18 GAUGE 1 CONDUCTOR GROUND (GRN), 22759/11-18-5-TANIS
RED JACKET - 18 GAUGE 2 CONDUCTOR (BLK & WHT), 18/2-22759/11-FEP-2-TANIS
RED JACKET - 20 GAUGE 2 CONDUCTOR (BLK & WHT), 20/2-22759/11-FEP-2-TANIS



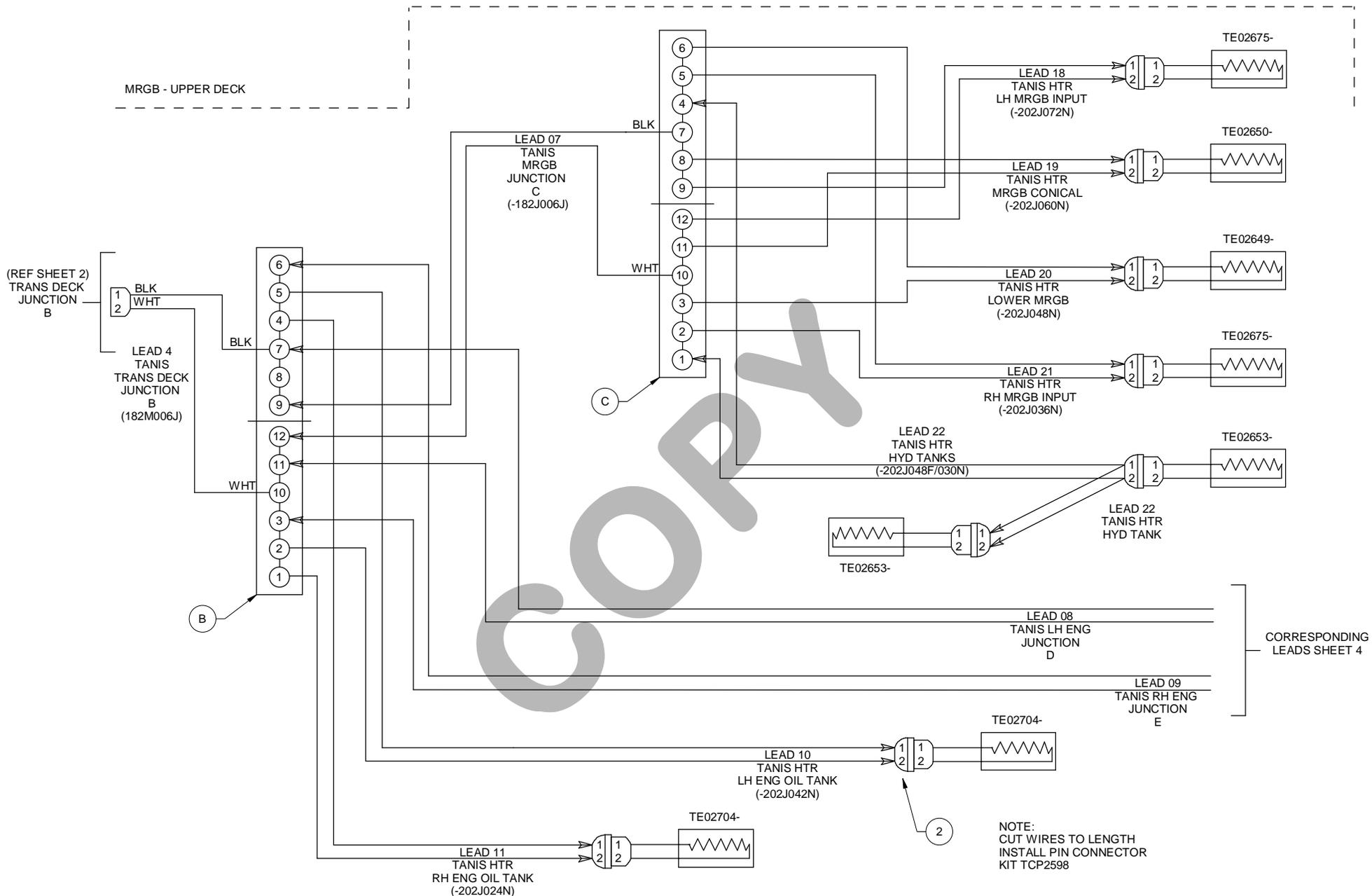
HEAT ELEMENT:

VARIES BY INSTALLATION
REFERENCE ITEM LIST AND
INSTALLATION INSTRUCTIONS
FOR CORRECT APPLICATION



TANIS AIRCRAFT PRODUCTS
GLENWOOD MUNICIPAL AIRPORT
GLENWOOD, MN 56334 USA

TITLE: CABLE KIT	REV. A	DATE: JAN-15-2013
LEGEND	DRAWING: 02875	SHEET: 2 OF 5



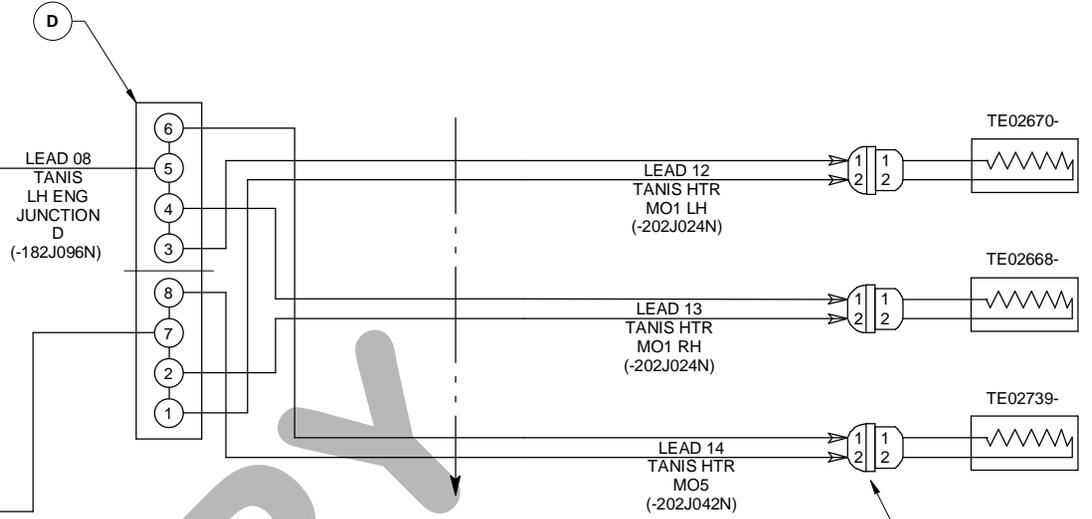
TANIS AIRCRAFT PRODUCTS
 GLENWOOD MUNICIPAL AIRPORT
 GLENWOOD, MN 56334 USA

TITLE: CABLE KIT
 WIRE DIAGRAM

REV. A
 DRAWING: 02875

DATE: JAN-15-2013
 SHEET: 4 OF 5

STARBOARD/RIGHT ENGINE COMPARTMENT



ENGINE JUNCTION OPTIONS:

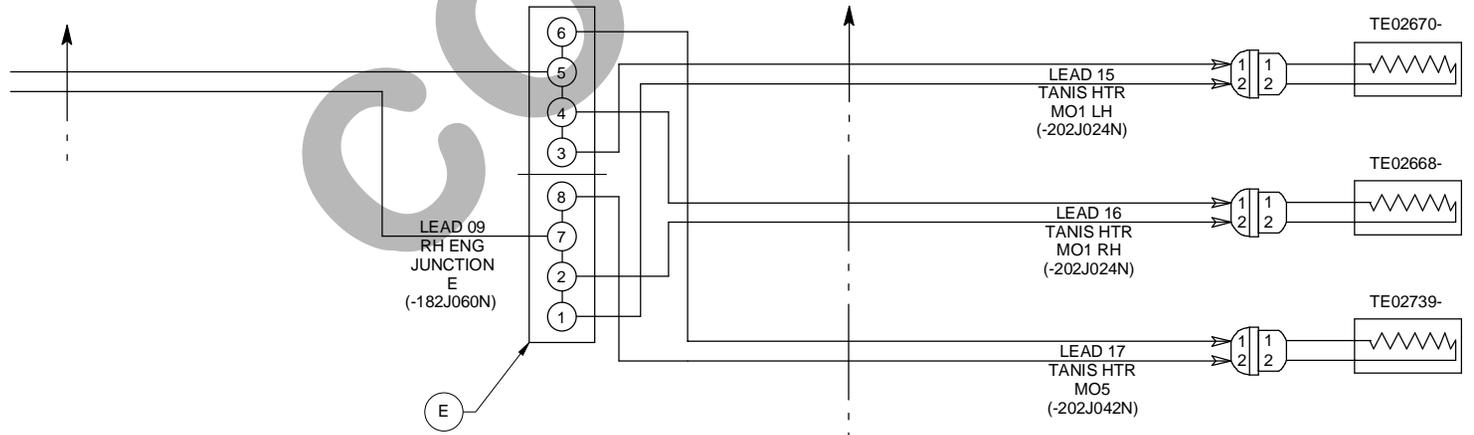
1. MOUNT ENGINE JUNCTIONS INSIDE OF CORRESPONDING COMPARTMENT.
2. MOUNT CORRESPONDING ENGINE JUNCTION OUTSIDE OF ENGINE COMPARTMENT.

OPTION 1:
MOUNT ENGINE JUNCTIONS IN CORRESPONDING ENGINE COMPARTMENT, ROUTE JUNCTION LEAD THROUGH FIREWALL USING TANIS TGO1056 FIREPROOF GROMMET OR APPROPRIATE FIREWALL DISCONNECT (MIL-DTL-5015).

OPTION 2:
MOUNT EACH ENGINE JUNCTIONS OUTSIDE OF CORRESPONDING ENGINE COMPARTMENT, INSTALL APPROPRIATE FIREWALL DISCONNECT (MIL-DTL-5015), ACCORDINGLY ROUTE CABLING THROUGH DISCONNECT.

NOTE:
CUT WIRES TO LENGTH
INSTALL PIN
CONNECTOR KIT
TCP2598

CORRESPONDING
LEADS SHEET 3



PORT/LEFT ENGINE COMPARTMENT



TANIS AIRCRAFT PRODUCTS
GLENWOOD MUNICIPAL AIRPORT
GLENWOOD, MN 56334 USA

TITLE: CABLE KIT
WIRE DIAGRAM

REV. A

DRAWING: 02875

DATE: JAN-15-2013

SHEET: 5 OF 5