

CONTENTS:

MATERIAL LIST  
LEGEND  
WIRE DIAGRAM

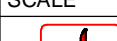
SHEET 1  
SHEET 2  
SHEETS 3-5

- 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 ENGINE	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 APPROAL				DRAFTSMAN	DIRK ELLIS	SEP-28-2011	TITLE:  CABLE KIT		
				CHECKED BY	GLEN OLIN	SEP-28-2011			
				SCALE	NOT TO SCALE		(CABLE ASSEMBLY TC02875, EC155 ARRIEL 2C2)		
A	ECR 2011-0006, AND REDRAW	JAN-15-2013	GDO		<b>TANIS AIRCRAFT PRODUCTS</b> 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

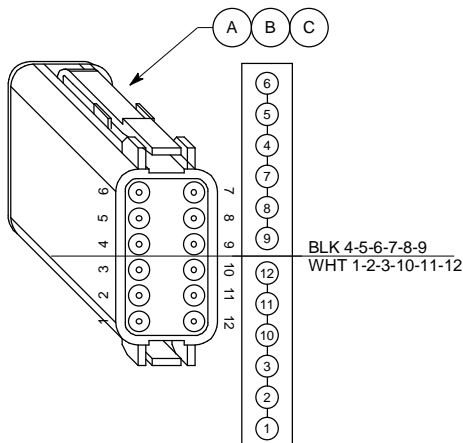
THE INFORMATION CONTAINED IN THIS DOCUMENT AND ALL OTHER ASSOCIATED DOCUMENTS IS PROPRIETARY TO TANIS AIRCRAFT PRODUCTS AND WILL NOT BE REPRODUCED DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WITH DIRECT WRITTEN AUTHORIZATION FROM TANIS AIRCRAFT PRODUCTS.

## LEGEND:

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

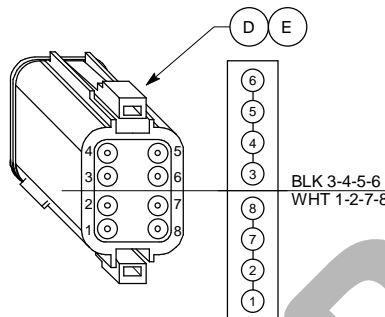
DIAGRAM USED FOR 115 AND 230 VOLT SYSTEMS.  
DESIGNED FOR OPERATION AT PLUS OR MINUS 10% OF SYSTEM  
VOLTAGE REQUIREMENT  
VOLTAGE REQUIREMENT CALLED OUT BY SYSTEM PART NUMBER.  
CIRCUIT PROTECTION NOT TO EXCEED 12 AMPS.

## PIN CONFIGURATION:



### 6 LEAD JUNCTION ASSEMBLY (TCJ3012):

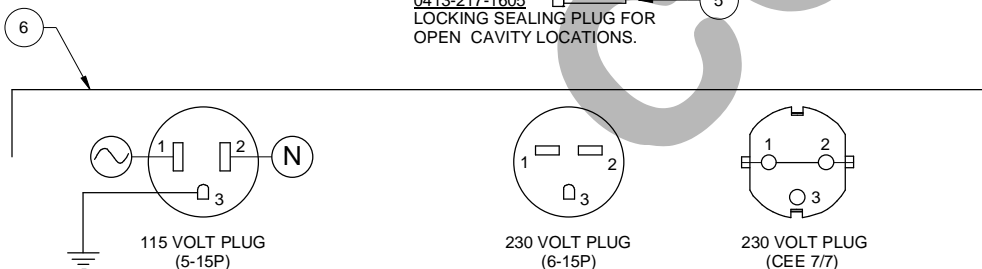
- 1 EA. DT04-12PB-P026, BUSSED RECEPTACLE
- 1 EA. DT06-12SB, MATING PLUG
- 1 EA. W12S, CONTACT WEDGE
- A/R. 0462-201-16141, SOCKET CONTACT
- A/R. 0413-217-1605, LOCKING SEALING PLUG



### 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

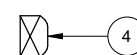
1. 230-VOLT LINE "BLK" TO BRASS OR BLACK SCREW TERMINAL
2. NEUTRAL LINE "WHT" TO BRASS OR BLACK SCREW TERMINAL
3. EARTH/GROUND "GRN" TO GREEN SCREW TERMINAL

## 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

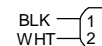
### SEALING CAP 3 SOCKET CONNECTOR

- 1 EA. DT04-3P-C017

### SEALING PLUG 3 PIN CONNECTOR

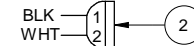
- 1 EA. DT06-3S-C017

## 2 CONTACT CONNECTOR KITS



### TCS2598 - SOCKET CONNECTOR

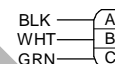
- 1 EA. DT06-2S-E004, SOCKET BODY
- 1 EA. W2S, WEDGE
- 2 EA. 0462-201-16141, SOCKET CONTACT



### TCP2598 - PIN CONNECTOR

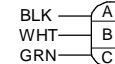
- 1 EA. DT04-2P-E004, PIN BODY
- 1 EA. W2P, WEDGE
- 2 EA. 0460-202-16141, PIN CONTACT

## 3 CONTACT CONNECTOR KITS:



### TCS2603 - SOCKET CONNECTOR

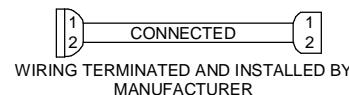
- 1 EA. DT06-3S-E004, SOCKET BODY
- 1 EA. W3S, WEDGE
- 3 EA. 0462-201-16141, SOCKET CONTACT



### 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

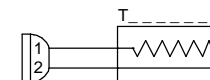
(-20 2 J 024 N)

## WIRE CODING

TERMINATION N=CUT TO LENGTH PER NOTE  
LENGTH IN INCHES AS SUPPLIED, CUT TO LENGTH  
TERMINATION J=JUNCTION, S=SOCKET, P=PIN, G=RING CRIMP  
NUMBER OF WIRES  
WIRE GAUGE

## 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

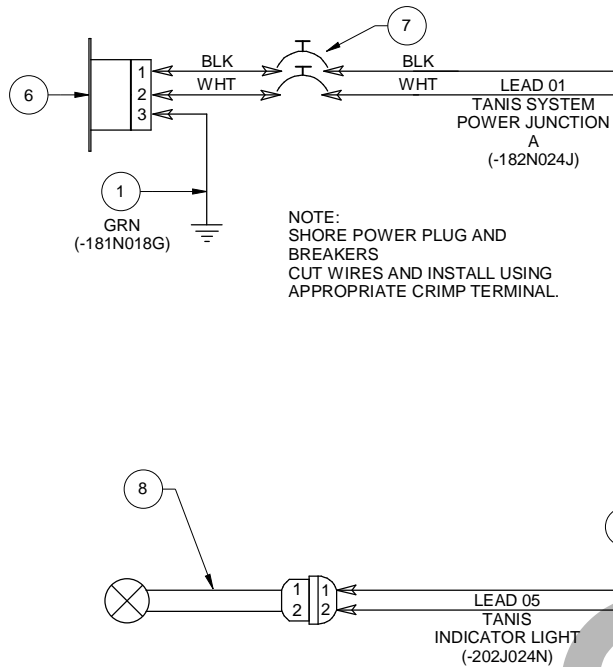
DRAWING: 02875

SHEET: 2 OF 5

# WIRE DIAGRAM SHEETS 3-5:

NOTE:  
CUT WIRES TO LENGTH  
INSTALL PIN CONNECTOR KIT  
TCP2598

## STARBOARD BAGGAGE COMPARTMENT



NOTE:  
ROUTE CABLE IN TAIL BOOM. AT TAIL BOOM SEPARATION  
POINT CUT WIRES TO LENGTH INSTALL APPROPRIATE  
CONNECTOR OR DISCONNECT (MIL-DTL-5015).

LEAD 03  
TANIS HTR  
TRGB  
(-202J240N)

LEAD 03  
TANIS HTR  
TRGB

LEAD 04  
TANIS  
TRANS DECK  
JUNCTION  
B  
(-182J240N)

BATTERY HEAT SYSTEM  
SUPPLIED SEPARATELY  
CAP WHEN NOT USED

TE02653-

(REF SHEET 3)  
TRANS DECK  
JUNCTION  
B

## MANUFACTURING NOTE:

1. WIRES LABELED 2-3 INCHES FROM TERMINATION.
2. CABLE TIE LABEL IN PLACE ON UNTERMINATED WIRES.
3. TWO OF EACH LABEL SUPPLIED FOR FIELD INSTALL
4. PRINT 2 LEAD LABLES FOR ELEMENT LEADS



**TANIS AIRCRAFT PRODUCTS**  
GLENWOOD MUNICIPAL AIRPORT  
GLENWOOD, MN 56334 USA

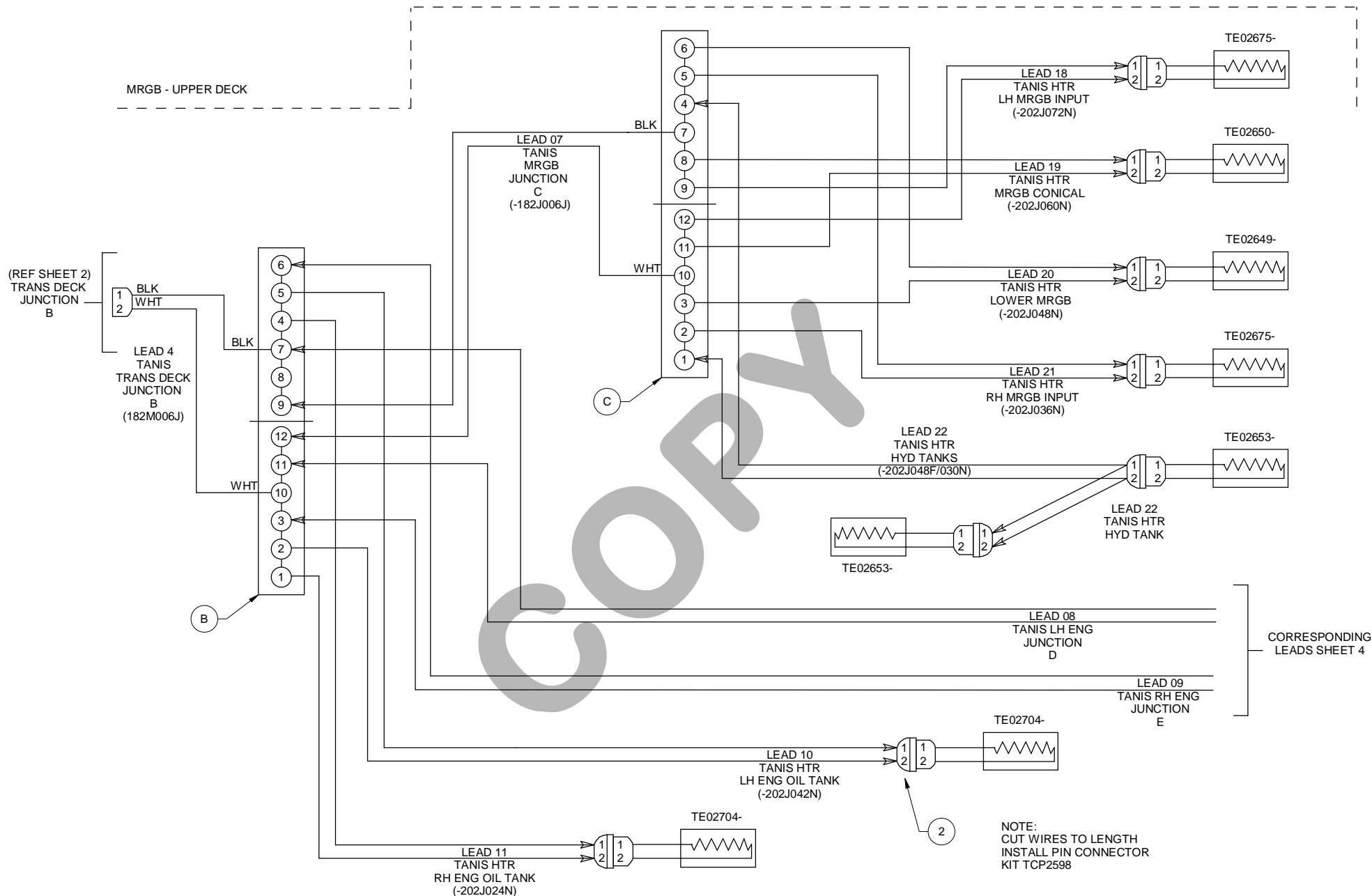
TITLE: CABLE KIT  
WIRE DIAGRAM

REV. A

DRAWING: 02875

DATE: JAN-15-2013

SHEET: 3 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).

CORRESPONDING  
LEADS SHEET 3

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

PORT/LEFT ENGINE COMPARTMENT



**TANIS AIRCRAFT PRODUCTS**  
GLENWOOD MUNICIPAL AIRPORT  
GLENWOOD, MN 56334 USA

TITLE: CABLE KIT

REV. A

DATE: JAN-15-2013

WIRE DIAGRAM

DRAWING: 02875

SHEET: 5 OF 5