

NOTES:

- 1

SWITCHED POWER OUT ON UCI -001 & -002 ONLY.
- 2

TERMINATION RESISTOR OR JUMPERS ON LAST UNIT ONLY.
- 3

GRA WIRE NOT NECESSARY.
- 4

POWER FOR BARRIER MUST ORIGINATE FROM NON-HAZARDOUS AREA.
- 5

JUMPER NOT NEEDED ON RS485 MODEM INTERFACE.
- 6

SPECIAL CASE RETROFIT ONLY IF RS485 MODEM INTERFACE IS USED AS A RETROFIT FOR A RADIO UCI WHEN USED WITH A UPS212 MODEM IN CONTINUOUS POWER MODE. THEN TB3-6 AND TB4-9 MUST BE JUMPED TOGETHER.
- 7

D1 NOT NEEDED WHEN USING 2010210-004 & 2011903-003. THESE DIODES MAY BE USED:  
D30914 (1N914JANTX)  
D34001 (1N4001)  
D34004 (1N4004)
- 8

INSTRUCTIONS FOR USING THIS DOCUMENT:  
  
SELECT APPROPRIATE DRAWING FROM "REFERENCE INDEX" PAGE 2.  
SELECT THE DIAGRAM WHICH MATCHES YOUR CONFIGURATION AND GO TO THE SPECIFIED SHEET NUMBER.
- 9

12 VOLTS VBATT (WHT WIRE) USED TO POWER COMM DEVICE SHOULD ONLY BE ATTACHED TO A SINGLE FCU & NEVER DAISY CHAINED.

NOTES: CONTINUED

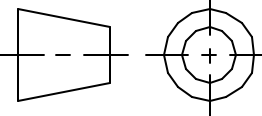
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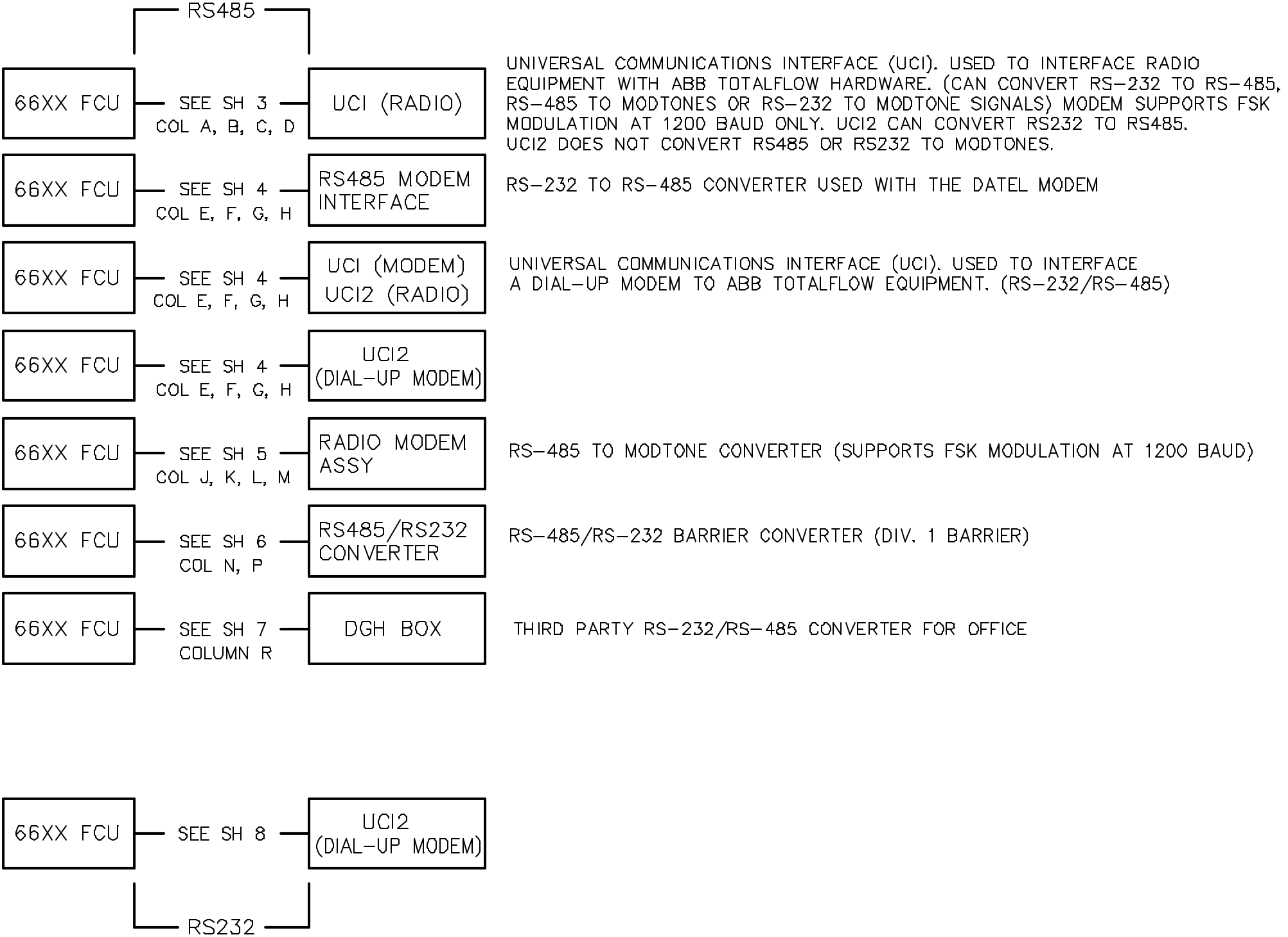
ALL FCU'S USING EXPIO PCBA SHOULD NOT USE:  
BAUD RATE FASTER THAN 4800.  
LISTEN TIME FASTER THAN 2 SECONDS  
EXCEPT FOR EXPIO WITH DUAL UART'S.
- 11

FACTORY ALWAYS WIRES UCI2 (DIAL-UP MODEM) FOR CONTINUOUS POWER UNLESS CUSTOMER SPECIFIED SWITCH POWER.  
TO ENABLE FCU SCHEDULER, REMOVE JUMPER.

REVISIONS

REV	ACTION	DRAWN	CHECKED	APPROVED	DATE
AG	D12435	KASTNER	KASTNER	HOLLAND	01/12/14
AH	D13094	KASTNER	KASTNER	HOLLAND	02/03/13
AF	D9909	KASTNER	KASTNER	HOLLAND	00/06/29

ASSEMBLY/QUANTITY					ITEM NO.	PART NUMBER	DESCRIPTION	REF /ZONE DESIG MATERIAL	UNIT MEAS
PARTS LIST									
<div>DO NOT SCALE DRAWING</div> <div>THIRD ANGLE PROJECTION</div> 		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMAL                      ANGULAR .XX ±    —                      ± — — .XXX ±    — — BREAK ALL SHARP CORNERS AND EDGES DIMENSIONS APPLY BEFORE FINISH				PRODUCT LINE	LEVEL	<div>ABB</div> <div>TOTALFLOW Products</div>	
						TOTALFLOW®	3		
						DESIGN	DATE		
						G. HOLLAND	97/8/25		
						DRAWN			
						TIERNEY	97-8-19	TITLE WIRING INTERCONNECT 66XX TO COMM INTERFACE WI	
						CHECKED			
						TIERNEY	97/8/25		
						APPROVED		SCALE	SHEET
						G. HOLLAND	97/8/25	NONE	1 OF 8
								SIZE	REV
								B	AH
								WI	
								DRAWING NO.	
								2017400	



# 66XX FCU

ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

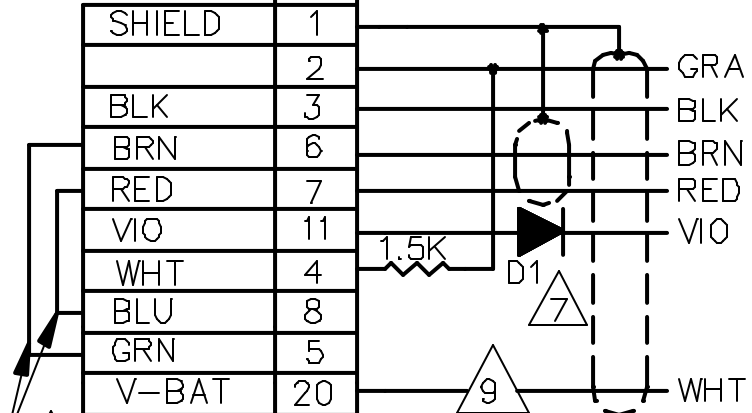
W/IO OPTION CARD

- 2010210-XXX
- 2010283-XXX
- 2011903-XXX

TERM PCBA  
2010232-001

TB1	
SHIELD	1
	2
BLK	3
BRN	6
RED	7
VIO	11
WHT	4
BLU	8
GRN	5
V-BAT	20

RS485



ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

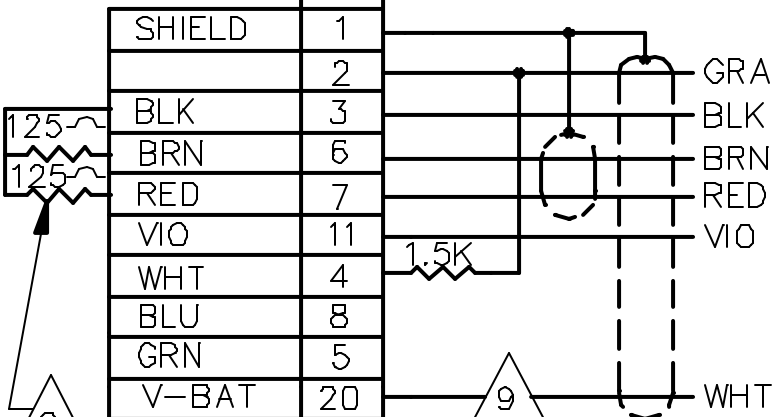
W/EXPIO PCBA

- 2011690-XXX
- 2012901-XXX
- 2015452-XXX
- 2017475-002,003,006,008

TERM PCBA  
2010232-001

TB1	
SHIELD	1
	2
BLK	3
BRN	6
RED	7
VIO	11
WHT	4
BLU	8
GRN	5
V-BAT	20

RS485



## POWER FROM FCU

A

SWITCHED POWER

- RADIO UCI ASSY  
2012630-004/007
- DESKTOP UCI ASSY  
2012630-005

TB3-UCI P2-UCI2	
6	OPER
2	GND
4	(-) BUS
3	(+) BUS
5	RTS
1	+12V SW
TB4-UCI P1-UCI2	

B

CONTINUOUS POWER

- RADIO UCI ASSY  
2012630-004/007
- DESKTOP UCI ASSY  
2012630-005

TB3-UCI P2-UCI2	
6	OPER
2	GND
4	(-) BUS
3	(+) BUS
5	RTS
1	+12V SW
TB4-UCI P1-UCI2	
9	V-OUT

## EXT POWER SUPPLY

C

SWITCHED POWER

- RADIO UCI ASSY  
2012630-004/007

TB3-UCI P2-UCI2	
6	OPER
2	GND
4	(-) BUS
3	(+) BUS
5	RTS
1	+12V SW
TB4-UCI P1-UCI2	
1	12 IN
2	GND
9	V-OUT

EXT  
POWER  
SUPPLY (+)  
(-)

D

CONTINUOUS POWER

- RADIO UCI ASSY  
2012630-004/007
- DESKTOP UCI ASSY  
2012630-005
- UCI2 ASSY  
2017266-001 PCBA

TB3-UCI P2-UCI2	
6	OPER
2	GND
4	(-) BUS
3	(+) BUS
5	RTS
1	+12V SW
TB4-UCI P1-UCI2	
9	V-OUT
2	GND

EXT  
POWER  
SUPPLY (+)  
(-)

66XX FCU

ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

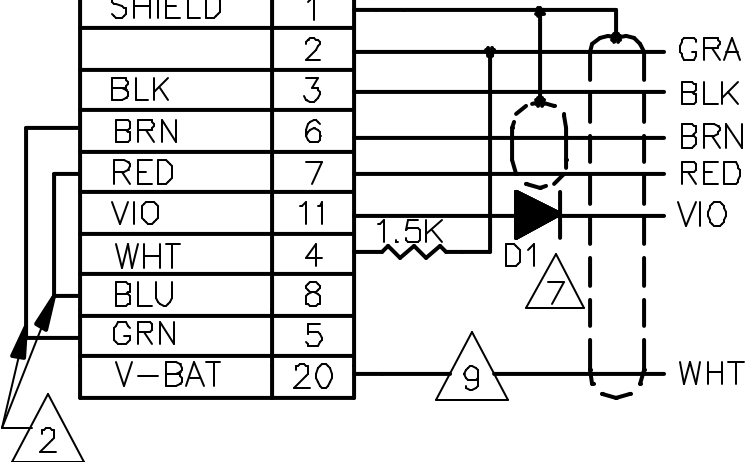
W/IO OPTION CARD

- 2010210-XXX
- 2010283-XXX
- 2011903-XXX

TERM PCBA  
2010232-001

TB1	
SHIELD	1
	2
BLK	3
BRN	6
RED	7
VIO	11
WHT	4
BLU	8
GRN	5
V-BAT	20

RS485



ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

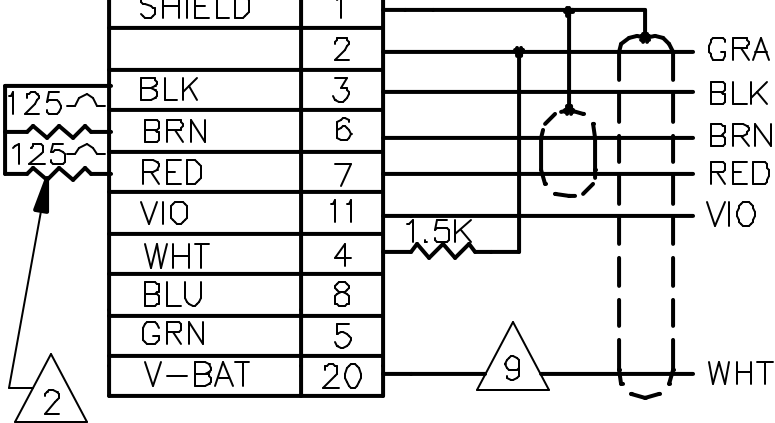
W/EXPIO PCBA

- 2011690-XXX
- 2012901-XXX
- 2015452-XXX
- 2017475-002,003,006,008

TERM PCBA  
2010232-001

TB1	
SHIELD	1
	2
BLK	3
BRN	6
RED	7
VIO	11
WHT	4
BLU	8
GRN	5
V-BAT	20

RS485



POWER FROM FCU

E

SWITCHED POWER

- RS485 MODEM INTERFACE  
2017273-001
- MODEM UCI ASSY  
2012630-006/008
- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002
- UCI2 ASSY  
2017266-001 PCBA

TB3-UCI P2-UCI2	
--------------------	--

GRA	6	OPER
BLK	2	GND
BRN	4	(-) BUS
RED	3	(+) BUS
VIO	5	RTS
WHT	1	+12V SW
	9	V-OUT
	1	12 IN

TB4-UCI P1-UCI2	
--------------------	--

	9	V-OUT
	1	12 IN

F

CONTINUOUS POWER

- RS485 MODEM INTERFACE  
2017273-001
- MODEM UCI ASSY  
2012630-006/008
- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002
- UCI2 ASSY  
2017266-001 PCBA

TB3-UCI P2-UCI2	
--------------------	--

GRA	6	OPER
BLK	2	GND
BRN	4	(-) BUS
RED	3	(+) BUS
VIO	5	RTS

TB4-UCI P1-UCI2	
--------------------	--

	9	V-OUT

EXT POWER SUPPLY

G

SWITCHED POWER

- RS485 MODEM INTERFACE  
2017273-001
- MODEM UCI ASSY  
2012630-006/008
- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002

TB3-UCI P2-UCI2	
--------------------	--

GRA	6	OPER
BLK	2	GND
BRN	4	(-) BUS
RED	3	(+) BUS
VIO	5	RTS
	1	+12V SW
	1	12 IN
	2	GND
	9	V-OUT

TB4-UCI P1-UCI2	
--------------------	--

EXT POWER SUPPLY (+)		
EXT POWER SUPPLY (-)		
	1	12 IN
	2	GND
	9	V-OUT

H

CONTINUOUS POWER

- RS485 MODEM INTERFACE  
2017273-001
- MODEM UCI ASSY  
2012630-006/008
- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002

TB3-UCI P2-UCI2	
--------------------	--

GRA	6	OPER
BLK	2	GND
BRN	4	(-) BUS
RED	3	(+) BUS
VIO	5	RTS
	1	+12V SW
	1	12 IN
	2	GND
	9	V-OUT

TB4-UCI P1-UCI2	
--------------------	--

EXT POWER SUPPLY (+)		
EXT POWER SUPPLY (-)		
	1	12 IN
	2	GND
	9	V-OUT

66XX FCU

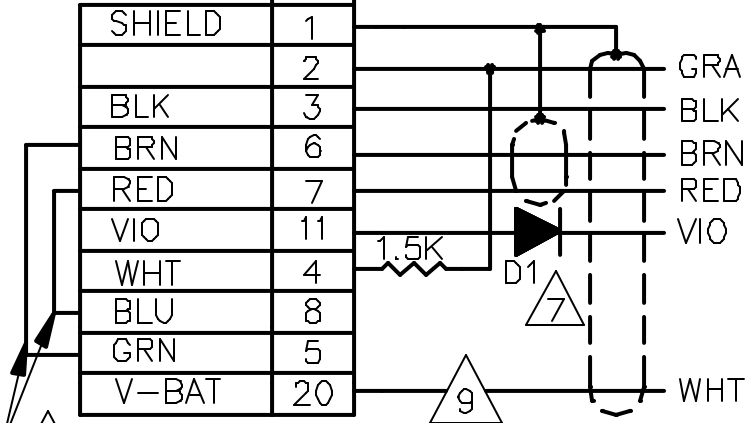
ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/IO OPTION CARD

- 2010210-XXX
- 2010283-XXX
- 2011903-XXX

TERM PCBA  
2010232-001



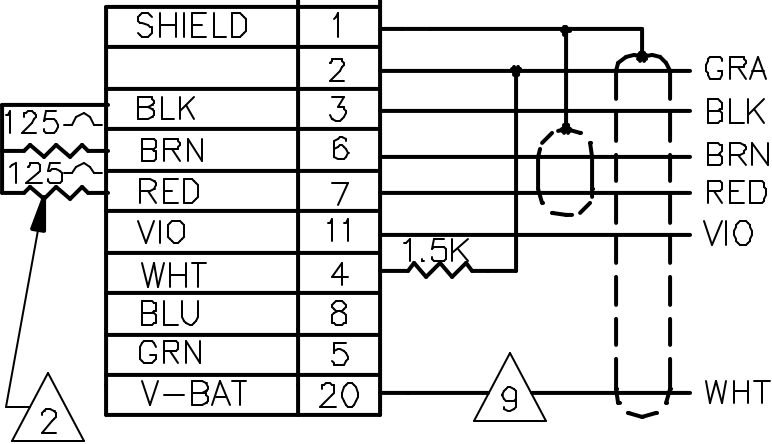
ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/EXPIO PCBA

- 2011690-XXX
- 2012901-XXX
- 2015452-XXX
- 2017475-002,003,006,008

TERM PCBA  
2010232-001

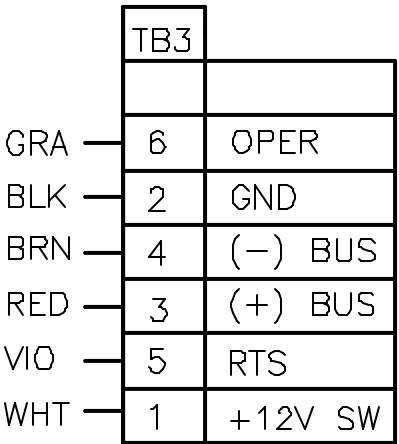


POWER FROM FCU

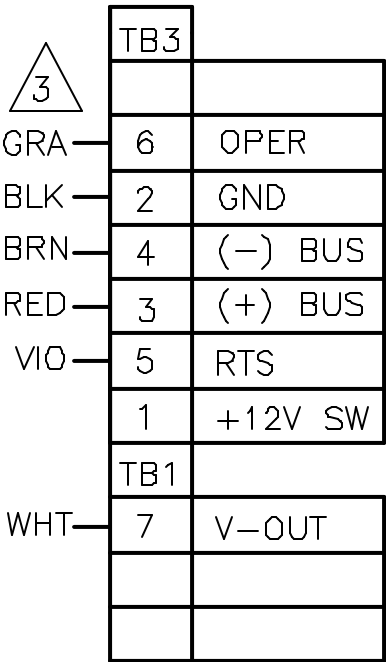
J  
SWITCHED POWER

K  
CONTINUOUS POWER

• RADIO MODEM ASSY  
2011610-001



• RADIO MODEM ASSY  
2011610-001

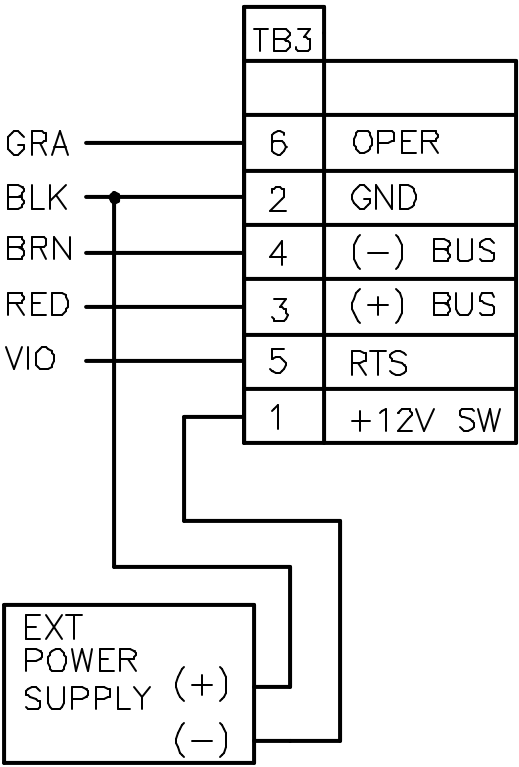


EXT POWER SUPPLY

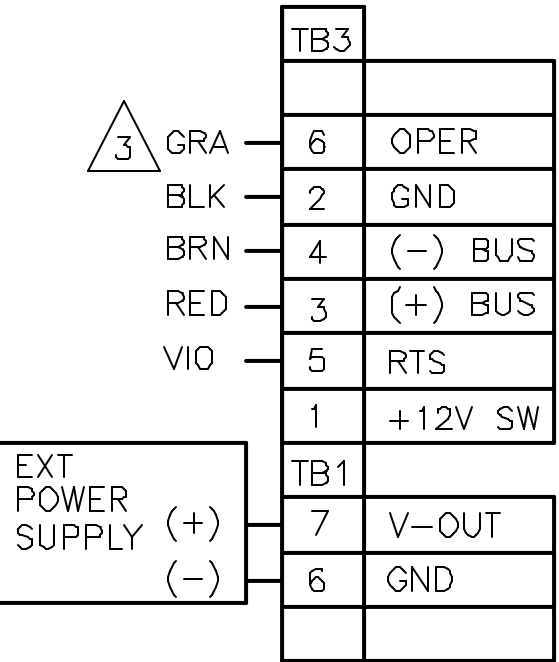
L  
SWITCHED POWER

M  
CONTINUOUS POWER

• RADIO MODEM ASSY  
2011610-001



• RADIO MODEM ASSY  
2011610-001



66XX FCU

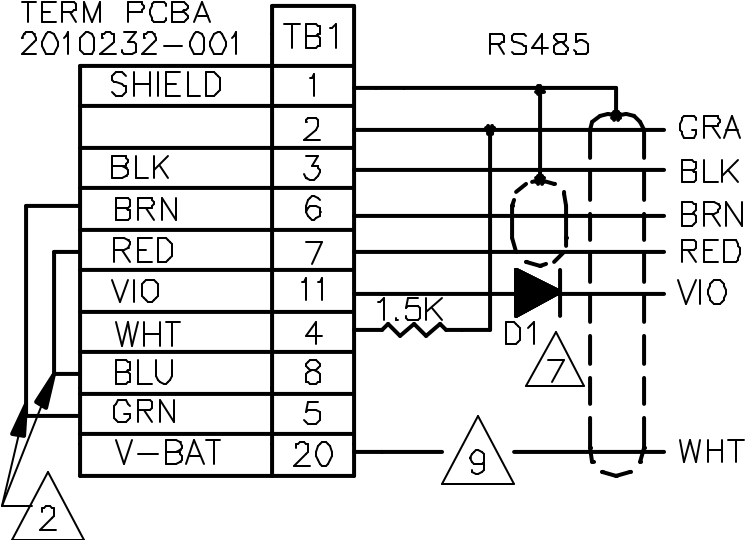
ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/IO OPTION CARD

- 2010210-XXX
- 2010283-XXX
- 2011903-XXX

TERM PCBA  
2010232-001



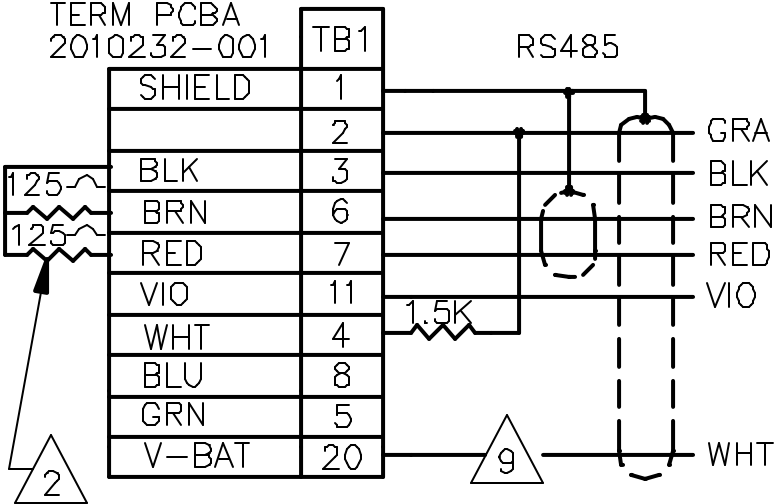
ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/EXPIO PCBA

- 2011690-XXX
- 2012901-XXX
- 2015452-XXX
- 2017475-002,003,006,008

TERM PCBA  
2010232-001



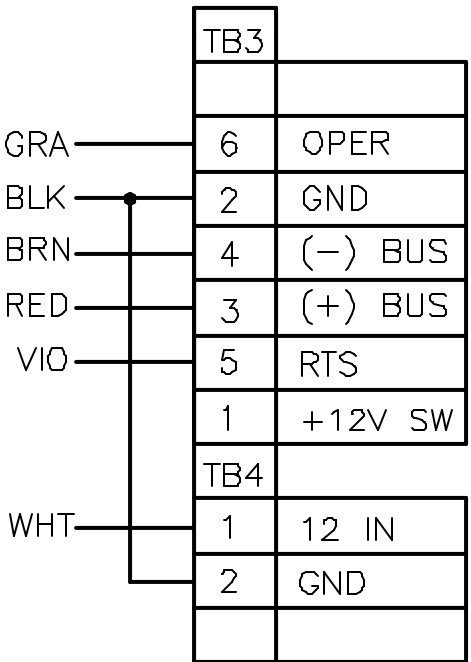
POWER FROM FCU

N

SWITCHED POWER

CONTINUOUS POWER

RS485/RS232 CONVERTER  
2011982-003/004



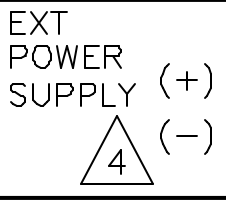
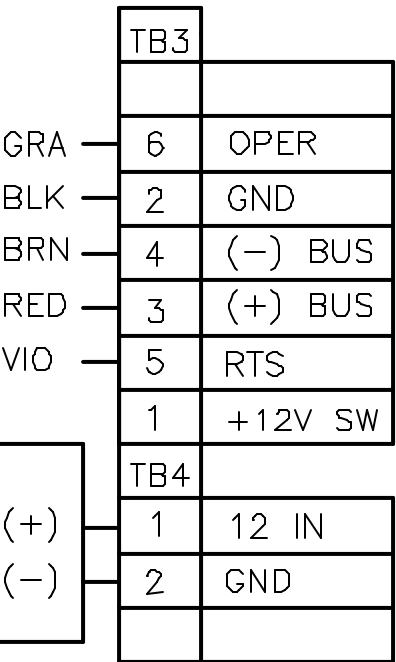
EXT POWER SUPPLY

P

SWITCHED POWER

CONTINUOUS POWER

RS485/RS232 CONVERTER  
2011982-003/004



66XX FCU

ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/IO OPTION CARD

- 2010210-XXX
- 2010283-XXX
- 2011903-XXX



TERM PCBA  
2010232-001

TB1
SHIELD
1
2
BLK
3
BRN
6
RED
7
VIO
11
WHT
4
BLU
8
GRN
5
V-BAT
20

RS485

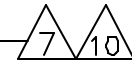


ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/EXPIO PCBA

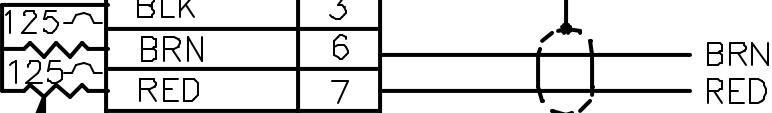
- 2011690-XXX
- 2012901-XXX
- 2015452-XXX
- 2017475-002,003,006,008



TERM PCBA  
2010232-001

TB1
SHIELD
1
2
BLK
3
BRN
6
RED
7
VIO
11
WHT
4
BLU
8
GRN
5
V-BAT
20

RS485



POWER FROM FCU

SWITCHED POWER

CONTINUOUS POWER

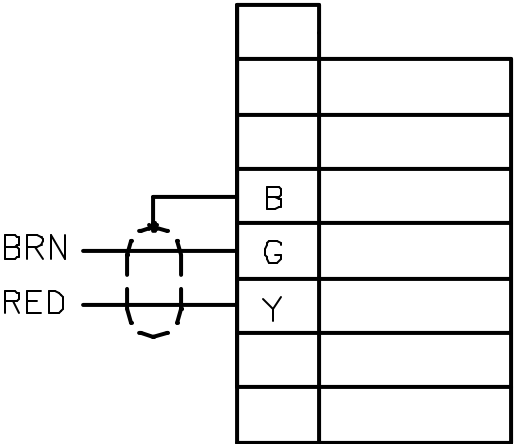
EXT POWER SUPPLY

R

SWITCHED POWER

CONTINUOUS POWER

DGH BOX (DGH-A-1100)



66XX FCU

ELEK BD

- 2010054-XXX
- 2010282-001
- 2011772-001
- 2012803-XXX

W/I/O OPTION CARD

- COMM INTERFACE  
2000003-001  
SWITCH SET ON MODEM
- RS232 COMM INTERFACE  
2012878-001
- COMM INTERFACE W/AO (RS232)  
2012911-002
- VCI RS232  
2010283-002  
SWITCH SET ON 232
- EXPIO RS232  
2011690-002  
2011730-002  
2012901-002  
2015452-001  
2017475-004,005,007,009

TERM PCBA  
2010232-001

TB1		RS232	
SHIELD			
BRN	6		BRN
GRN	5		VIO
YEL	10		RED
BLK	3		BLK
VBATT	20		GRA
GND	24		
WHT	4		WHT

POWER FROM FCU

S

SWITCHED POWER

- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002  
2017266-001

(SCHEDULER  
SOFTWARE  
REQUIRED)

	P1	
BRN	4	TXD
VIO	6	RXD
RED	7	KEY/CTS
BLK	8	GND
WHT	10	PWR I/O
	5	GND
	1	12 IN
	9	VOUT

T

CONTINUOUS POWER

- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002  
2017266-001

(SCHEDULER  
SOFTWARE  
REQUIRED)

	P1	
BRN	4	TXD
VIO	6	RXD
RED	7	KEY/CTS
BLK	8	GND
GRA	10	PWR I/O
	5	GND
	1	12 IN
	9	VOUT

EXT POWER SUPPLY

U

SWITCHED POWER

- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002  
2017266-001

(SCHEDULER  
SOFTWARE  
REQUIRED)

	P2	
WHT	6	OPER

	P1	
BRN	4	TXD
VIO	6	RXD
RED	7	KEY/CTS
BLK	8	GND
	10	PWR I/O
	5	GND
EXT POWER SUPPLY (+)	1	12 IN
EXT POWER SUPPLY (-)	2	GND
	9	VOUT

V

CONTINUOUS POWER

- UCI2 (DIAL-UP MODEM)  
2018323-001/002  
2017379-001/002  
2017266-001

(SCHEDULER  
SOFTWARE  
REQUIRED)

	P1	
BRN	4	TXD
VIO	6	RXD
RED	7	KEY/CTS
BLK	8	GND
	10	PWR I/O
	5	GND
EXT POWER SUPPLY (+)	1	12 IN
EXT POWER SUPPLY (-)	2	GND
	9	VOUT