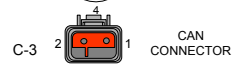
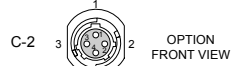
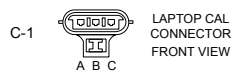


QTY	DESCRIPTION	PCS P/N	NOTES
	CONNECTOR	CON-1202	IMF
	TERMINALS	CON-1205	
	CONNECTOR COVER	CON-1203	
	CAVITY PLUG	CON-1204	

C-1 LAPTOP CAL CONNECTOR			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-3416	
3	TERMINALS	CON-1038	
1	TPA	CON-3417	CREAM
3	CABLE SEALS	CON-1027	WHT



C-2 OPTION			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-0065	
4	TERMINALS	CON-0051	

C-3 CAN BUS CONNECTOR			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-5050	
2	TERMINALS	CON-5200	(20-18gauge)
1	WEDGE LOCK	CON-5100	ORN

ALL LENGTHS ARE 60"

CHASSIS GND			
QTY	DESCRIPTION	PCS P/N	NOTES
1	RING TERM.	CON-0350	

TXI	COLOR	NOTES
BLK	BLACK	
BRN	BROWN	
RED	RED	
ORN	ORANGE	
YEL	YELLOW	
LT.GRN	LIGHT GREEN	
GRN	GREEN	
LT.BLU	LIGHT BLUE	
BLU	BLUE	
VIO	VIOLET	
GRY	GRAY	
WHT	WHITE	
PNK	PINK	

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F1 & F2			
QTY	DESCRIPTION	PCS P/N	NOTES
2	CONNECTOR	CON-2200	
2	FUSE CAP.	CON-2201	BLK
2	TPA	CON-2202	BLU
4	TERMINAL	CON-1020	(18-16 AWG)
1	FUSE - 1	CON-2217	3A
1	FUSE - 2	CON-2221	10A
4	CABLE SEAL	CON-1001	GRN

SPLICE INFORMATION		
S#	FUNCTION	COLOR
S1	GROUND	BLK
S2	+12V OUT	YELL
S3	NU	NU
S4	CAN HIGH	WHT/RED
S5	CAN LOW	WHT/BLK

APPLICABLE STANDARDS

- ASME Y14.100-200
- ASME Y14.5M-1994
- IPC/WHMA-A-620A-CLASS 2
- MARK IAW MIL-STD-130.

NOTES:

- 1.) WIRE LENGTH TOLERANCE +/- .12 INCH
- 2.) WIRE GAUGE IS 20 AWG UNLESS OTHERWISE STATED
- 3.) TAPE ALL LOOM JOINTS UNLESS OTHERWISE STATED
- 4.) TWIST INDICATED WIRES AT LEAST 10-12 TURNS PER FOOT
- 5.) PLACE TAGS NO MORE THAN 2" FROM CONNECTOR. PLACE TAGS FOR UNTERMINATED WIRES NO MORE THAN 2" FROM UNTERMINATED END.
- 6.) WIRE TYPE IS TXI UNLESS OTHERWISE STATED

COMPANY:
POWERTRAIN CONTROL SOLUTIONS

TITLE:
TCJ2800 UNIVERSAL HARNESS

C	CUSTOMER DRAWING NO.	PCS PART NUMBER	REV:
	NONE	TCM-4028	001

DRAWN BY: FAD DATE: 5/1/2015 APPROVED BY: DATE: SHEET 2 OF 7

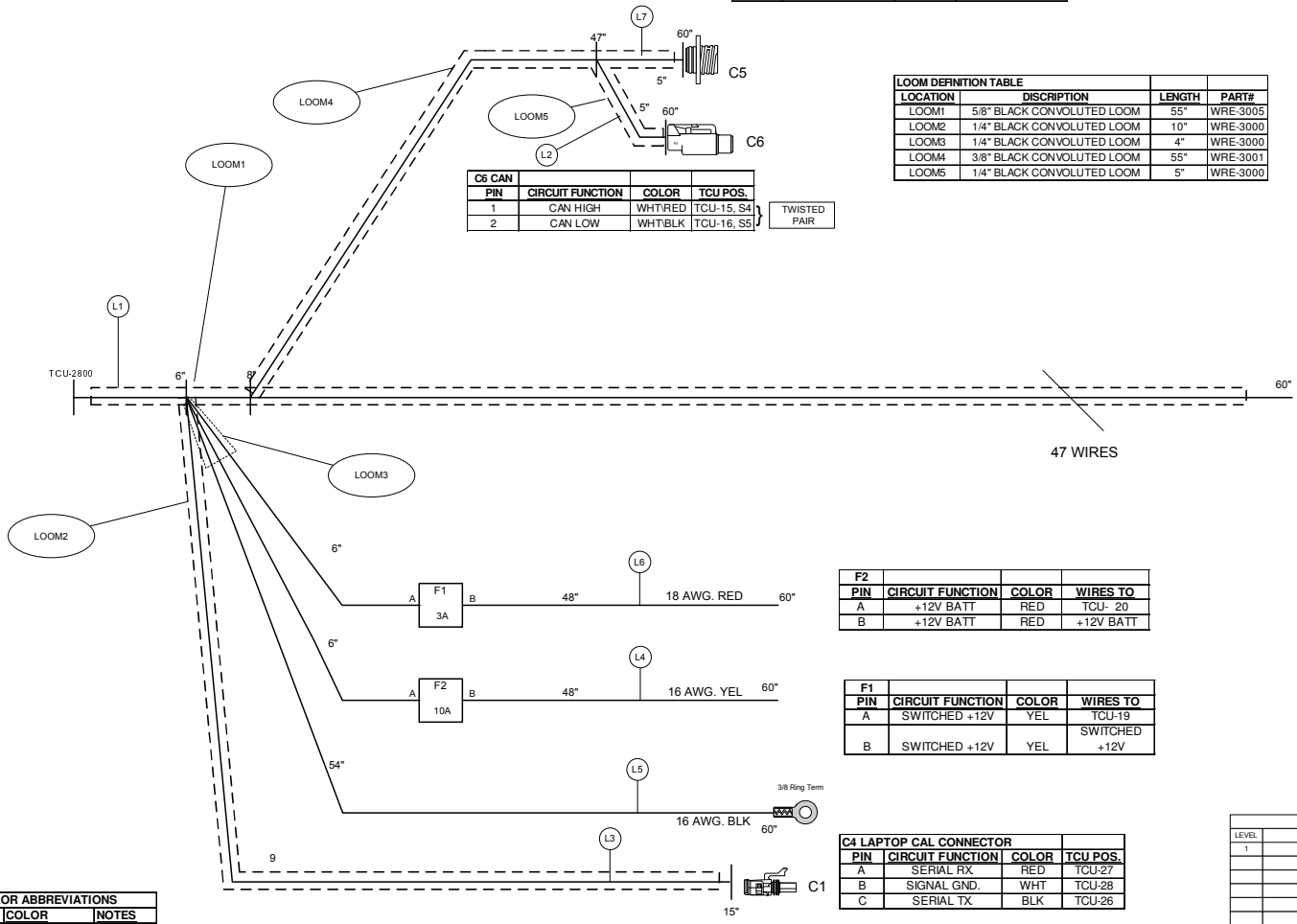
C5 OPTION			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
1	SWITCHED +12V DC	RED	TCU-19, S2
2	GND.	BLK	TCU-9, 42, S1
3	CAN HIGH	WHTRED	TCU-15
4	CAN LOW	WHTBLK	TCU-16

TWISTED PAIR

LOCATION	DISCRIPTION	LENGTH	PART#
LOOM1	5/8" BLACK CONVOLUTED LOOM	55"	WRE-3005
LOOM2	1/4" BLACK CONVOLUTED LOOM	10"	WRE-3000
LOOM3	1/4" BLACK CONVOLUTED LOOM	4"	WRE-3000
LOOM4	3/8" BLACK CONVOLUTED LOOM	55"	WRE-3001
LOOM5	1/4" BLACK CONVOLUTED LOOM	5"	WRE-3000

C6 CAN			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
1	CAN HIGH	WHTRED	TCU-15, S4
2	CAN LOW	WHTBLK	TCU-16, S5

TWISTED PAIR



F2			
PIN	CIRCUIT FUNCTION	COLOR	WIRES TO
A	+12V BATT	RED	TCU- 20
B	+12V BATT	RED	+12V BATT

F1			
PIN	CIRCUIT FUNCTION	COLOR	WIRES TO
A	SWITCHED +12V	YEL	TCU-19
B	SWITCHED +12V	YEL	SWITCHED +12V

C4 LAPTOP CAL CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	SERIAL RX	RED	TCU-27
B	SIGNAL GND.	WHT	TCU-28
C	SERIAL TX	BLK	TCU-26

WIRE COLOR ABBREVIATIONS		
TXT	COLOR	NOTES
BLK	BLACK	
BRN	BROWN	
RED	RED	
ORN	ORANGE	
YEL	YELLOW	
LT.GRN	LIGHT GREEN	
GRN	GREEN	
LT.BLU	LIGHT BLUE	
BLU	BLUE	
VIO	VIOLET	
GRY	GRAY	
WHT	WHITE	
PNK	PINK	

SPLICE INFORMATION		
S#	FUNCTION	COLOR
S1	GROUND	BLK
S2	+12V OUT	YELL
S3	NU	NU
S4	CAN HIGH	WHT/RED
S5	CAN LOW	WHT/BLK

LABEL DEFINITION TABLE			
NUM	NAME	PCS PIN	NOTES
L1	TCM-4900-001	WRE-8501	P291
L2	CAN BUS	WRE-8500	P35
L3	LAPTOP CAL CONNECTOR	WRE-8500	P65
L4	SWITCHED +12V DC	WRE-8500	P31
L5	CHASSIS GROUND	WRE-8500	P32
L6	+12V BATT	WRE-8500	P30
L7	OPTION CONNECTOR	WRE-8500	P5

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APPLICABLE STANDARDS:
 • ASME Y14.100-200
 • ASME Y14.5M-1994
 • IPC/WHMA A-620A-CLASS 2
 • MARK IAW MIL-STD-130

NOTES:
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 6) WIRE TYPE IS TXL UNLESS OTHERWISE STATED.

REVISION HISTORY				
LEVEL	DESCRIPTION	DATE	DRN	APP
1	RELEASE	6/22/16		

COMPANY:
POWERTRAIN CONTROL SOLUTIONS

TITLE:
TCU2800 UNIVERSAL HARNESS

C	CUSTOMER DRAWING NO. NONE	PCS PART NUMBER TCM-4028	REV. 001
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DRAWN BY: FAD DATE: 5/1/2015 APPROVED BY: DATE: SHEET 3 OF 7