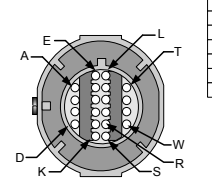
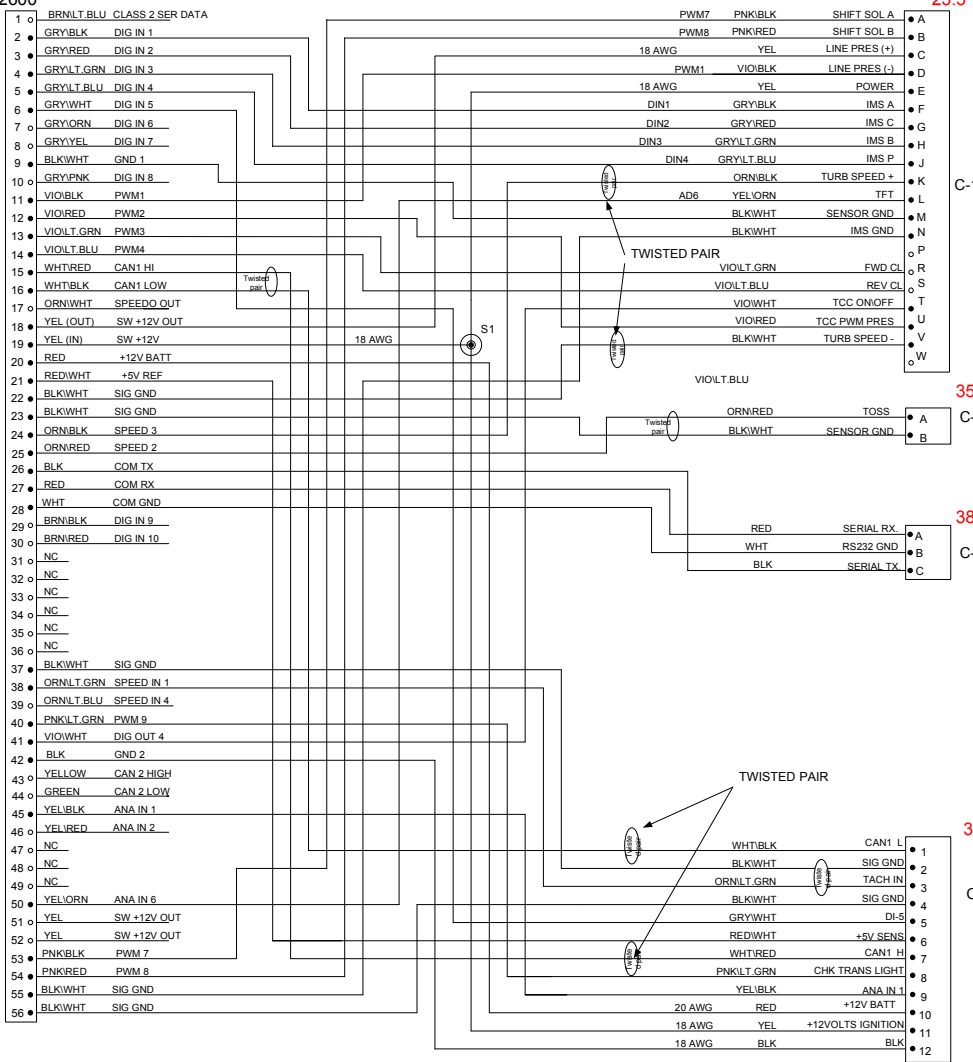


TCM-2600



REVISION HISTORY				
LEVEL	DESCRIPTION	DATE	DRN	APP
T	Release	3/03/14	FD	
1a	Graphic change page two	8/11/14	FD	
1b	CORRECTED C4 GRAPHIC AND PART #'S	10/10/14	FD	
1c	CHANGED CUT SHEET SEE REDLINE	3/12/15	FD	
1d	C4 connector part # change	5/7/15	FD	
1e	Cut sheet correction	7/24/2015	FD	

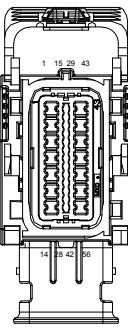
C-1 TRANSMISSION CONNECTOR			
QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON-2000	
14	TERMINAL	CON-2804	20-22 AWG.
2	TERMINAL	CON-2805	16-18 AWG
5	BLOCKING PINS	CON-1044	BLUE
1	SEAL	CON-3309	LT.GREEN
1	CONDUIT CLIP	CON-2008	
1	TPA	CON-2003	GRY

C-2 OUTPUT SHAFT SPEED SENSOR FEMALE			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-1070	
2	TERMINALS	CON-1084	20 AWG
2	CABLE SEAL	CON-1093	GRN
1	TPA	CON-1072	GRY

C-3 OPTIONAL COM NOT REQUIRED FOR USE			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-3416	M/F
3	TERMINALS	CON-1038	
1	TPA	CON-3417	CREAM
3	CABLE SEALS	CON-1027	WHT

C-3 CAP LAPTOP CALIBRATION CONNECT CAP			
QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON-3415	
3	CAVITY PLUG	CON-1024	DK.RED
1	SECONDARY LOCK	CON-3417	

C-4 BULKHEAD CONNECTOR			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-5542	GRY
12	TERMINALS	CON-5400	
1	WEDGE	CON-5508	GRN



TCU-2600

QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-1702	M/F
34	TERMINALS	CON-1705	
1	CONNECTOR COVER	CON-1703	
22	CAVITY PLUG	CON-1704	

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
ST	12 VOLTS SWITCHED	YEL

Print Date  
2/8/2016  
1506

<b>APPLICABLE STANDARDS</b> • ASME Y14.100-200 • ASME Y14.5M-1994 • IPCA/WHMA-A-620A-CLASS 2 • MARK IAW MIL-STD-130.	<b>NOTES:</b> 1.) WIRE LENGTH TOLERANCE +/- 12 INCH 2.) WIRE GAUGE IS 20 AWG UNLESS OTHERWISE STATED 3.) TAPE ALL COOK 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 TXL UNLESS OTHERWISE STATED.	<b>COMPANY:</b> POWERTRAIN CONTROL SOLUTIONS <b>TITLE:</b> 4L70E 2010+ TRANSMISSION MOUNTED TCU-2600
DRAWN BY: FRED D. DATE: 3/06/2014	APPROVED BY: XXXXX DATE:	CUSTOMER DRAWING NO. XXXXX-XXXXX PCS PART NUMBER TCM-4635 REV: 001 SHEET 2 OF 11

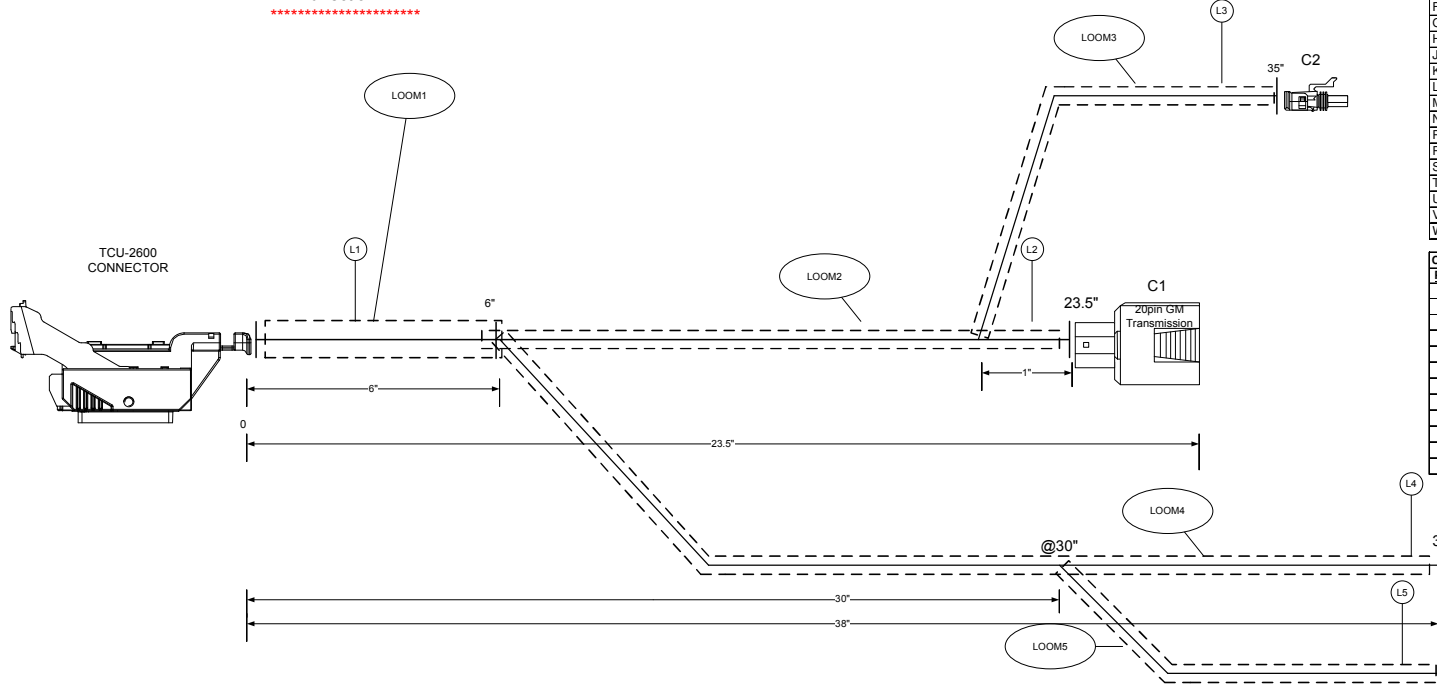
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1e	Cut sheet correction	7/24/2015	FD	

\*\*\*\*\*  
Breakout direction is critical. See photo for breakout placement and direction.  
\*\*\*\*\*

C2 OUTPUT SHAFT SPEED SENSOR FEMALE				
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.	
A	TOSS+	ORG/RED	25	
B	TOSS-	BLK/WHT	23	

C1 TRANSMISSION CONNECTOR 2600 TO 4I70 STAND ALONE				
PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO	
A	SHIFT SOL-A (1-2)	PNK/BLK	TCU-53	
B	SHIFT SOL-B (2-3)	PNK/RED	TCU-54	
C	LINE PRESSURE +	YEL (18 AWG)	TCU-18	
D	LINE PRESSURE -	VIO/BLK	TCU-11	
E	TCC, 1-2, 2-3, 3-2 +	YEL (18 AWG)	TCU-19, S1	
F	IMS A	GRY/BLK	TCU-2	
G	IMS C	GRY/RED	TCU-3	
H	IMSB	GRY/GRN	TCU-4	
J	IMS P	GRY/LT.BLU	TCU-5	
K	TURBINE SPEED +	ORG/BLK	TCU-24	
L	ATF TEMP +	YEL/ORG	TCU-50	
M	ATF TEMP -	BLK/WHT	TCU-9	
N	IMS GND	BLK/WHT	TCU-55	
P	NC	NC	NC	
R	FWD CL	VIO/LT.GRN	TCU-13	
S	REV CL	VIO/LT.BLU	TCU-14	
T	TCC ON/OFF	VIO/WHT	TCU-41	
U	TCC PWM	VIO/RED	TCU-12	
V	TURBIN SPEED -	BLK/WHT	TCU-22	
W				

C4 BULKHEAD CONNECTOR				
PIN	CIRCUIT FUNCTION	COLOR	GOES TO	
1	CAN1 L	WHT/BLK	TCU-16	
2	SIGNAL GND	BLK/WHT	TCU-37	
3	RPM	ORN/LT.GRN	TCU-38	
4	SEN GND	BLK/WHT	TCU-56	
5	DIG IN -S	GRY/WHT	TCU-6	
6	+5V SEN	RED/WHT	TCU-21	
7	CAN1 H	WHT/RED	TCU-15	
8	CHECK TRANS	PNK/LT.GRN	TCU-40	
9	TPS	YEL/BLK	TCU-45	
10	+12V BATTERY	RED	TCU-20	
11	+12 VOLTS IGNITION	YEL	TCU-19,S1	
12	CHASSIS GND	BLK	TCU-42	



PROVIDE A LAPTOP CALIBRATION CONNECT PROTECTIVE CAP

C-3 CAP LAPTOP CALIBRATION CONNECT CAP				
QTY	DESCRIPTION	PIN	NOTES	
1	CONNECTOR	12129615		
3	CAVITY PLUG	12059168	DK. RED	
1	SECONDARY LOCK	12052845		
1	PIN BLOCKING PLUG			

C3 OPPTIONAL COM NOT REQUIRED FOR USE				
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.	
A	SERIAL RX	RED	TCU-27	
B	SIGNAL GND.	WHT	TCU-28	
C	SERIAL TX	BLK	TCU-26	

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LOOM DEFINITION TABLE				
LOCATION	DISCRIPTION	LENGTH	PART#	
LOOM1	3/4" BLACK CONVOLUTED LOOM	6.5"	WRE-3005	
LOOM2	1/2" BLACK CONVOLUTED LOOM	17.5"	WRE-3003	
LOOM3	1/4" BLACK CONVOLUTED LOOM	17.5"	WRE-3000	
LOOM4	1/2" BLACK CONVOLUTED LOOM	32"	WRE-3003	
LOOM5	1/4" BLACK CONVOLUTED LOOM	8"	WRE-3000	

LABEL DEFINITION TABLE				
NJUM	NAME	PART #		
L1	TCM-4635-001 4I70E 2010+ TO	WRE-8501		
L2	TRANSMISSION CONNECTOR	WRE-8500		
L3	TOSS	WRE-8500		
L4	BULKHEAD CONNECTOR	WRE-8500		
L5	OPTIONAL COM NOT REQUIRED FOR USE	WRE-8500		

SPLICE INFORMATION		
S-#	FUNCTION	COLOR
S1	12 VOLTS SWITCHED	YEL

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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 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 TXL UNLESS OTHERWISE STATED.

COMPANY:  
**POWERTRAIN CONTROL SOLUTIONS**

TITLE:  
**4L70E 2010+ TRANSMISSION MOUNTED TCU-2600**

SIZE: C CUSTOMER DRAWING NO. XXXXX-XXXXX PCS PART NUMBER TCM-4635 REV: 001

DRAWN BY: FRED D. DATE: 3/06/2014 APPROVED BY: XXXXXX DATE: SHEET 3 OF 11