





INTERM WIRE GROUP			
PIN	CIRCUIT FUNCTION	COLOR	CONTO
	NEUTSAFETY	TAN	TO C1-W
	REV LIGHT	VIO/WHT	TO TCU-41
	SPEEDO OUT	ORN/WHT	TO TCU-17

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 4170 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	+5VSEN	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 DIAGNOSTIC COMM CONNECTOR CAP			
QTY	DESCRIPTION	P/N	NOTES
1	CONNECTOR	12129615	
3	CAVITY PLUG	12059168	DK.RED
1	SECONDARY LOCK	12052845	
1	PIN BLOCKING PLUG		

C3 DIAGNOSTIC COMM 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

REVISION HISTORY				
LEVEL	DESCRIPTION	DATE	DRN	APP
1	Release	8/27/15	FD	
1A	ADDED SPEEDO OUT	4-14-16	FD	

- 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 +/- 1/2 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 TXL UNLESS OTHERWISE STATED

COMPANY: POWERTRAIN CONTROL SOLUTIONS			
TITLE: TCM-4634-001 4L70E 2010+ TO 2600 WITH NEUTRAL SAFETY AND REV LIGHTS			
SIZE: C	CUSTOMER DRAWING NO. XXXXXX-XXXXX	PCS PART NUMBER TCM-4634	REV: 001
DRAWN BY: FRED D.	DATE: 8/28/2015	APPROVED BY: XXXXXX	DATE: SHEET 3 OF 10

SPLICE INFORMATION			LOOM DEFINITION TABLE				LABEL DEFINITION TABLE			
S-#	FUNCTION	COLOR	LOCATION	DISCRIPTION	LENGTH	PART#	NUM	NAME	PART #	NOTES
S1	12 VOLTS SWITCHED	YEL	LOOM1	3/4" BLACK CONVOLUTED LOOM	6.5"	WRE-3005	L1	TCM-4635-001 4170E 2010+ TO	WRE-8501	P-318
S2	TCC CTL	VIO/RED	LOOM2	1/2" BLACK CONVOLUTED LOOM	17.5"	WRE-3003	L2	TRANSMISSION CONNECTOR	WRE-8501	P-107
			LOOM3	1/4" BLACK CONVOLUTED LOOM	17.5"	WRE-3000	L3	TOSS	WRE-8500	P-8
			LOOM4	1/2" BLACK CONVOLUTED LOOM	32"	WRE-3003	L4	BULKHEAD CONNECTOR	WRE-8500	P-64
			LOOM5	1/4" BLACK CONVOLUTED LOOM	8"	WRE-3000	L5	DIAGNOSTIC COMM CONNECTOR	WRE-8500	P-337