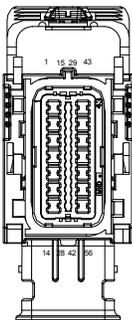


TCM-2600

C-1



QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-2023	
15	TERMINALS	CON-2022	
15	SEAL	CON-2021	

TCM-2600 Connector	DESCRIPTION	PCS P/N	NOTES
1	BRN/LT.BLU CLASS 2 SER DATA		
2	GRY/BLK DIG IN 1		
3	GRY/RED DIG IN 2		
4	GRY/LT.GRN DIG IN 3		
5	GRY/LT.BLU DIG IN 4		
6	GRY/WHT DIG IN 5		
7	GRY/ORN DIG IN 6		
8	GRY/YEL DIG IN 7		
9	BLK GND 1		
10	GRY/PNK DIG IN 8		
11	VIO/BLK PWM1		
12	VIO/RED PWM2		
13	VIO/LT.GRN PWM3		
14	VIO/LT.BLU PWM4		
15	WHT/RED CAN1 HI		
16	WHT/BLK CAN1 LOW		
17	ORN/WHT SPEEDQ OUT		
18	YEL (OUT) SW +12V OUT		
19	YEL (IN) SW +12V		
20	RED +12V BATT		
21	RED/WHT +5V REF		
22	BLK/WHT SIG GND		
23	BLK/WHT SIG GND		
24	ORN/BLK SPEED 1		
25	ORN/RED SPEED 2		
26	BLK COM TX		
27	RED COM RX		
28	WHT COM GND		
29	BRN/BLK DIG IN 9		
30	BRN/RED DIG IN 10		
31	NC		
32	NC		
33	NC		
34	NC		
35	NC		
36	NC		
37	BLK/WHT SIG GND		
38	ORN/LT.GRN SPEED IN 3		
39	ORN/LT.BLU SPEED IN 4		
40	PNK/LT.GRN PWM 9		
41	VIO/WHT PWM 10		
42	BLK GND 2		
43	YELLOW CAN 2 HIGH		
44	GREEN CAN 2 LOW		
45	YEL/BLK ANA IN 1		
46	YEL/RED ANA IN 2		
47	NC		
48	NC		
49	NC		
50	YEL/ORN ANA IN 6		
51	YEL SW +12V OUT		
52	YEL SW +12V OUT		
53	PNK/BLK PWM 7		
54	PNK/RED PWM 8		
55	BLK/WHT SIG GND		
56	BLK/WHT SIG GND		

TXL	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	

Print Date
4/17/2013
1400

SPLICE INFORMATION		LEVEL	DESCRIPTION	DATE	DRN	APP
S#1	12 VOLTS SWITCHED	1	RELEASE	12/09/2013	FD	DB
S2	TOSS SIGNAL	2	5v pullup check	4/17/2014	FD	
S3	+5V SENSOR		SPEED INPUT CHANGES	5/20/14	FD	
S4	RANGE SENSOR SIGNAL					
S5	TISS SIGNAL					

QTY	DESCRIPTION	P/N	NOTES
1	CONNECTOR	CON-2023	
15	TRRMINAL	CON-2022	
15	SEAL	CON-2021	

SHIP WITH RESISTORS AND MOUNTING CLIPS

QTY	DESCRIPTION	P/N
4	CONNECTOR	CON-1077
8	TERMINAL	CON-1082
4	TPA	CON-1087
8	CABLE SEALS	CON-1090

QTY	DESCRIPTION	PCS P/N	NOTES
4	MOLDED RESISTOR	CON-1079	
4	ATTACH CLIP	WRE-8550	

QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-3415	
3	CAVITY PLUG	CON-1029 GRN	
1	TPA	CON-3417	

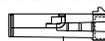
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-3416	
3	TERMINALS	CON-1038	
1	TPA	CON-3417	CREAM
3	CABLE SEALS	CON-1027	WHT

QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-5220	GRY
5	TERMINALS	CON-5504	
1	WEDGE LOCK	CON-5521	
1	CAVITY PLUG	CON5530	WHT

NO COM CABLE SHIPS WITH THIS HARNESS

<p>APPLICABLE STANDARDS</p> <ul style="list-style-type: none"> ASME Y14.100-200 ASME Y14.5M-1994 IPC/WHMA-A-620A-CLASS 2 MARK IAW MIL-STD-130. 	<p>NOTES</p> <ol style="list-style-type: none"> WIRE LENGTH TOLERANCE +/- 1/2 INCH WIRE GAUGE IS 20 AWG UNLESS OTHERWISE STATED TAPE ALL LOOM JOINTS UNLESS OTHERWISE STATED TWIST INDICATED WIRES AT LEAST 10-12 TURNS PER FOOT PLACE TAGS NO MORE THAN 2" FROM CONNECTOR. PLACE TAGS FOR UNTERMINATED WIRES NO MORE THAN 2" FROM UNTERMINATED END. WIRE TYPE IS TXL UNLESS OTHERWISE STATED 	<p>COMPANY:</p> <p>POWERTRAIN CONTROL SOLUTIONS</p> <p>TITLE:</p> <p>FORD 6R80 TO TCM-2600</p>
<p>DRAWN BY:</p> <p>FRED D.</p>	<p>DATE:</p> <p>12/04/2012</p>	<p>APPROVED BY:</p> <p>DB</p>
<p>SIZE:</p> <p>C</p>	<p>CUSTOMER DRAWING NO:</p> <p>XXXXX-XXXXX</p>	<p>PCS PART NUMBER:</p> <p>TCM-4620</p>
<p>REV:</p> <p>002</p>	<p>DATE:</p>	<p>SHEET 1 OF 15</p>

REVISION LEVEL				
LEVEL	DESCRIPTION	DATE	DRN	APP
1	RELEASE	12/05/2013	FD	DB
1a	5v pullup check	4/17/2014	FD	
2	SPEED INPUT CHANGES	5/20/14	FD	



C-5M LAPTAP CALIBRATION CONNECTOR COVER

QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-3415	
3	CAVITY PLUG	CON-1029	GRN
1	TPA	CON-3417	

THIS HARNESS IS BUILT FROM OVER-MOLD TCU-2200 HARNESS

C6 VEHICLE INTERFACE CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
1	+12V BATT	RED	TCU PIN-20
2	SW +12V BATT	YEL	TCU PIN-19
3	CHASSIS GND	BLK	TCU PIN-9
4	NC	NC	NC
5	CAN HI	WHT/RED	TCU-15
6	CAN LOW	WHT/BLK	TCU-6

C5 LAPTAP CALIBRATION CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	SERIAL RX	RED	TCU-27
B	RS232 GND.	WHT	TCU-28
C	SERIAL TX	BLK	TCU-29

TRANS CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
1	TISS SENSOR	ORN/RED	TCU PIN-25, S2
2	NC	NC	NC
3	TCC SOL (-)	MO/RED	TCU PIN-12
4	TRANS RANGE	ORN/LT.GRN	TCU PIN-38,S4
5	ANA GND	BLK/WHT	TCU PIN-23
6	YEL/ORN	YEL/ORN	TCU PIN-50
7	+12V SWITCHED (16 AWG)	YEL	TCU PIN-19, S1
8	SHIFT SOL E	MO/WHT	TCU PIN-41
9	SHIFT SOL A	VIOLT.GRN	TCU PIN-13
10	SHIFT SOL D	VIOLT.BLU	TCU PIN-14
11	SIGNAL GND	BLK/WHT	TCU PIN-37
12	+5V REF	RED/WHT	TCU PIN-21, S3
13	SHIFT SOL C	PNK/BLK	TCU PIN-53
14	SHIFT SOL B	PNK/RED	TCU PIN-54
15	TOSS SENSOR	ORN/BLK	TCU PIN-24, S2
16	PRES CONT SOL A	MO/BLK	TCU PIN-11

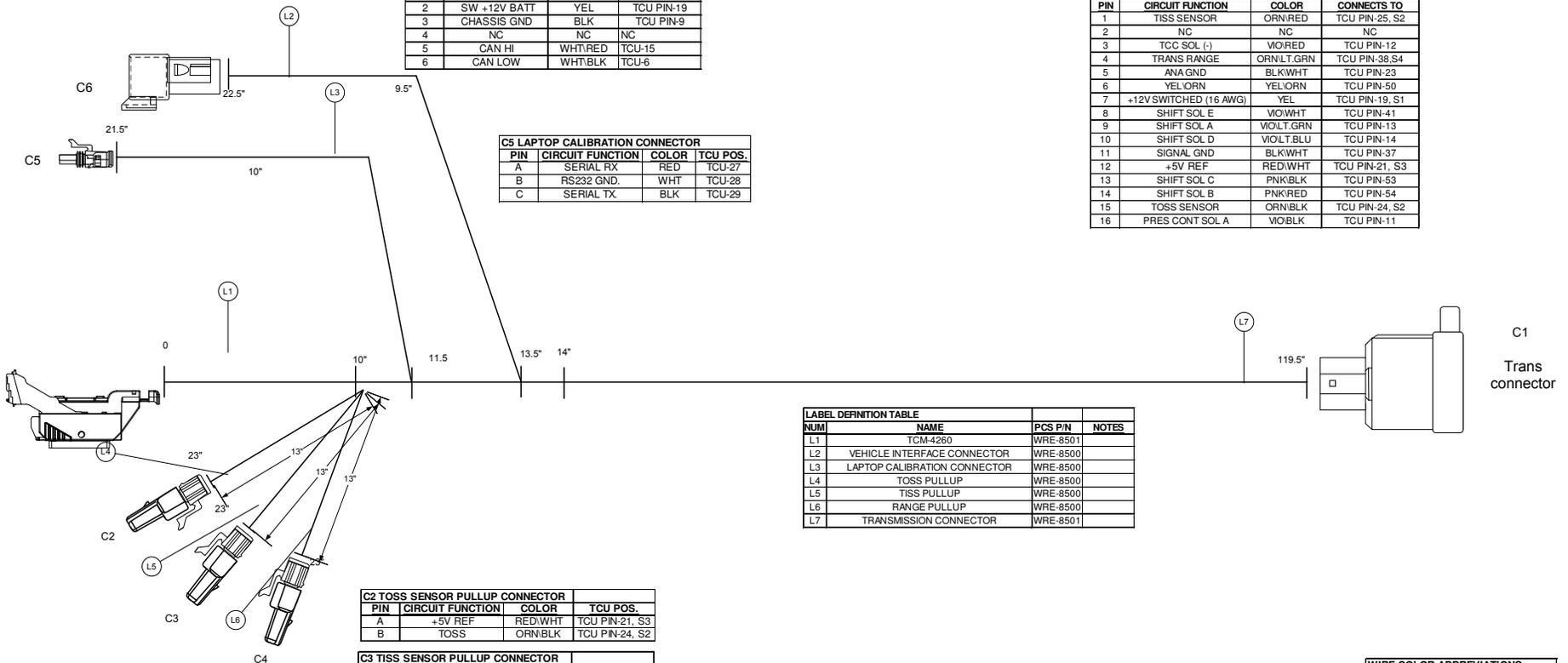
LABEL DEFINITION TABLE			
NUM	NAME	PCS P/N	NOTES
L1	TCM-4260	WRE-8501	
L2	VEHICLE INTERFACE CONNECTOR	WRE-8500	
L3	LAPTAP CALIBRATION CONNECTOR	WRE-8500	
L4	TOSS PULLUP	WRE-8500	
L5	TISS PULLUP	WRE-8500	
L6	RANGE PULLUP	WRE-8500	
L7	TRANSMISSION CONNECTOR	WRE-8501	

C2 TOSS SENSOR PULLUP CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	+5V REF	RED/WHT	TCU PIN-21, S3
B	TOSS	ORN/BLK	TCU PIN-24, S2

C3 TISS SENSOR PULLUP CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	+5V REF	RED/WHT	TCU PIN-21, S3
B	TISS	ORN/RED	TCU PIN-25, S5

C4 RANGE SENSOR PULLUP CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	+5V REF	RED/WHT	TCU PIN-21, S3
B	RANGE SIGNAL	ORN/LT.GRN	TCU PIN-38, S4

WIRE COLOR ABBREVIATIONS		
TXL	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



NO COM CABLE SHIPS WITH THIS HARNESS

SPLICE INFORMATION		
S-#	FUNCTION	COLOR
S1	12 VOLTS SWITCHED	YEL
S2	TOSS SIGNAL	ORN/BLK
S3	+5V SENSOR	RED/WHT
S4	RANGE SENSOR SIGNAL	ORN/LT.GRN
S5	TISS SIGNAL	ORN/RED

Print Date
4/17/2014
1029

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:
FORD 6R80 TO TCM2600

SIZE: C CUSTOMER DRAWING NO: XXXXX-XXXXX PCS PART NUMBER: TCM-4620 REV: 002

DRAWN BY: FRED D. DATE: 12/04/2012 APPROVED BY: DB DATE: SHEET 2 OF 15