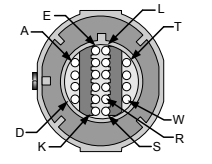
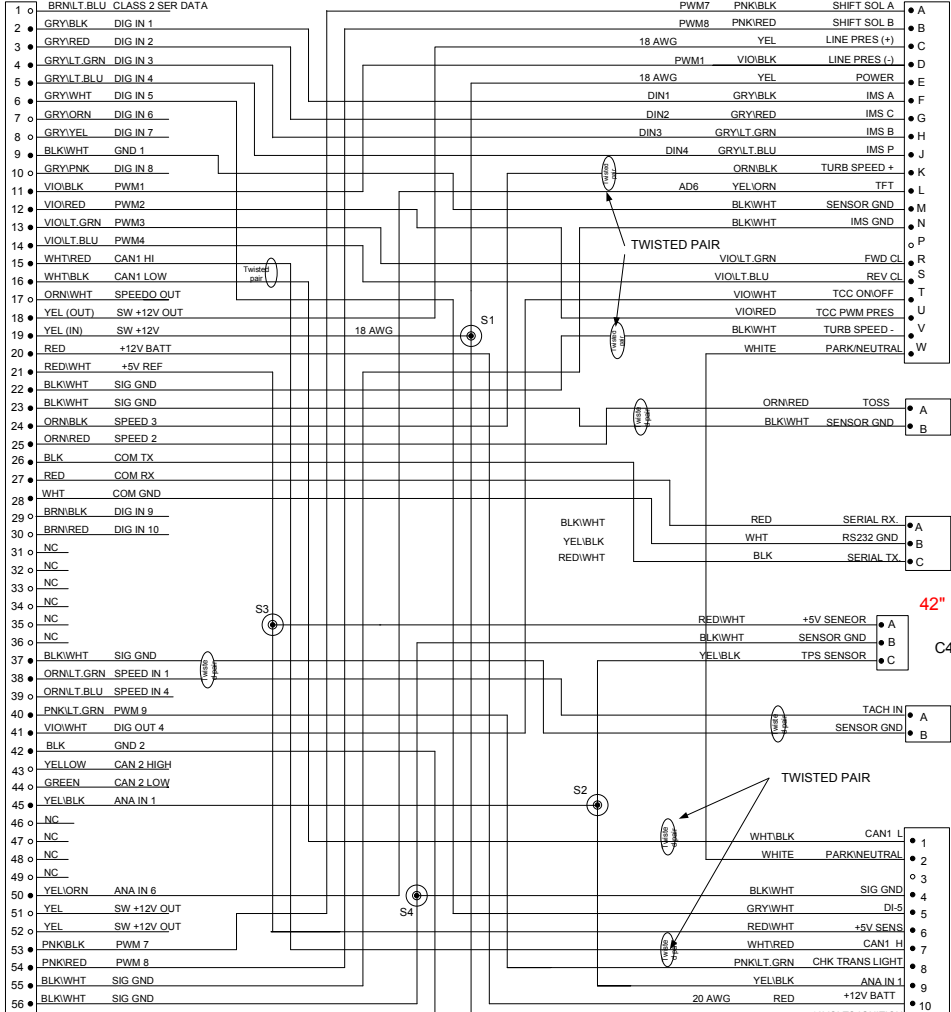


TCM-2600



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

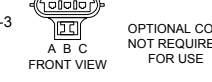
C-1  
108"  
TRANSMISSION CONNECTOR FRONT VIEW

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-2  
125"  
OUTPUT SHAFT SPEED SENSOR FRONT VIEW

C-3 OPTIONAL COM NOT REQUIRED FOR USE			
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-3  
18"  
OPTIONAL COM NOT REQUIRED FOR USE FRONT VIEW

C-3A CAP LAPTOP CALIBRATION CONNECT CAP			
QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON-3415	
3	CAVITY PLUG	CON-1029	GRN
1	TPA	CON-3417	

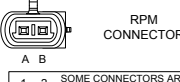
PROVIDE A LAPTOP CALIBRATION CONNECT PROTECTIVE CAP

C-7 THROTTLE POSITION CONNECTOR			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-2328	
3	TERMINALS	CON-2329	



C-4  
42"  
THROTTLE POSITION SENSOR FRONT VIEW

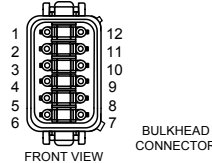
C5 RPM CONNECTOR			
QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON-1071	F
2	PIN	CON-1088	M
1	SEAL	CON-1093	GRN
1	LOCK	CON-1072	3/5/2013



C-5  
113"  
RPM CONNECTOR

1 2 SOME CONNECTORS ARE NUMBERED NOT LETTERED

C-6 BULKHEAD CONNECTOR			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-5542	GRY
12	TERMINALS	CON-5504	
1	WEDGE	CON-5508	GRN



C-6  
18"  
BULKHEAD CONNECTOR FRONT VIEW

TCU-2600

TCU-2600 Connector			
QTY	DESCRIPTION	PCS P/N	NOTES
1	CONNECTOR	CON-1202	M/F
34	TERMINALS	CON-1205	
1	CONNECTOR COVER	CON-1203	
21	CAVITY PLUG	CON-1204	

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	

Print Date  
7/12/2019  
1600

REVISION HISTORY				
LEVEL	DESCRIPTION	DATE	DRN	APP
1	Release	10/23/17	FD	
1A	TEXT UPDATES	7/12/19	FD	

SPLICE INFORMATION		
S#	FUNCTION	COLOR
S1	12 VOLTS SWITCHED	YEL
S2	TPS/MAP SIGNAL	YEL/BLK
S3	+5V SENSOR	RED/WHT
S4	SIGNAL GND	BLK/WHT

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 TXL UNLESS OTHERWISE STATED.

COMPANY:  
**POWERTRAIN CONTROL SOLUTIONS**

TITLE:  
**GM 4 SPEED TRANSMISSION C6**

SIZE: C CUSTOMER DRAWING NO. PCS PART NUMBER  
 CON-4666

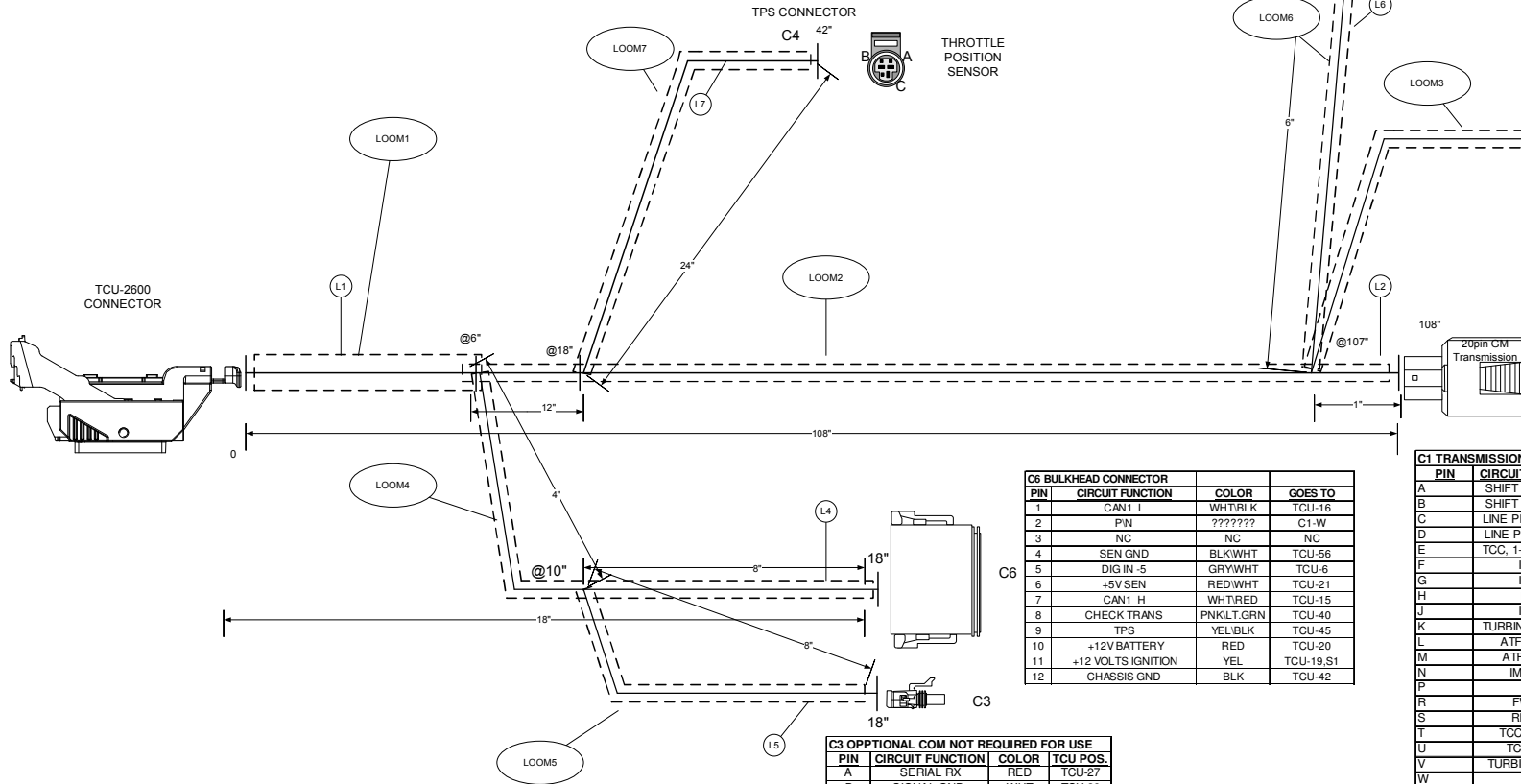
DATE: 10/17/17 APPROVED BY: DATE: SHEET PAGE 1

LOOM DEFINITION TABLE			
LOCATION	DISCRPTION	LENGTH	PART#
LOOM1	3/4" BLACK CONVOLUTED LOOM	6.5"	WRE-3005
LOOM2	1/2" BLACK CONVOLUTED LOOM	102"	WRE-3003
LOOM3	1/4" BLACK CONVOLUTED LOOM	18"	WRE-3000
LOOM4	1/2" BLACK CONVOLUTED LOOM	14"	WRE-3003
LOOM5	1/4" BLACK CONVOLUTED LOOM	8"	WRE-3000
LOOM6	1/4" BLACK CONVOLUTED LOOM	6"	WRE-3000
LOOM7	1/4" BLACK CONVOLUTED LOOM	4"	WRE-3000

REDWHT  
BLKWHT  
YELBLK

C4 THROTTLE POSITION SENSOR			
PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
A	+5V REF	RED/WHT	S3, TCU-21
B	SIGNAL GND	BLK/WHT	S4, TCU-56
C	SENSOR OUTPUT	YEL/RED	S2, TCU45

C5 RPM CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	TACH IN	ORGLT.GRN	38
B	SENSOR GND	BLK/WHT	37



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

C6 BULKHEAD CONNECTOR			
PIN	CIRCUIT FUNCTION	COLOR	GOES TO
1	CAN1 L	WHT/BLK	TCU-16
2	P/N	???????	C1-W
3	NC	NC	NC
4	SEN GND	BLK/WHT	TCU-56
5	DIG IN -5	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

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 -	VIOLBK	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	IMS B	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	VIOLT/GRN	TCU-13
S	REV CL	VIOLT/BLU	TCU-14
T	TCC ON/OFF	VIOWHT	TCU-41
U	TCC PWM	VIOWHT	TCU-12
V	TURBIN SPEED -	BLK/WHT	TCU-22
W	P/N	????	C1-W

C3 OPTIONAL 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

LABEL DEFINITION TABLE			
NUM	NAME	PART #	NOTES
L1	TCM-4666-001 4170E 2010+ TO	WRE-8501	P435
L2	TRANSMISSION CONNECTOR	WRE-8500	P107
L3	TOSS	WRE-8500	P8
L4	BULKHEAD CONNECTOR	WRE-8500	P64
L5	OPTIONAL COM NOT REQUIRED FOR USE	WRE-8500	P4
L6	RPM CONNECTOR	WRE-8500	P304
L7	TPS SENSOR	WRE-8500	P2

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	12 VOLTS SWITCHED	YEL
S2	TPS/IMP SIGNAL	YEL/BLK
S3	+5V SENSOR	RED/WHT
S4	SIGNAL GND	BLK/WHT

PROVIDE A LAPTOP CALIBRATION CONNECT PROTECTIVE CAP

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

REVISION HISTORY				
LEVEL	DESCRIPTION	DATE	DRN	APP
1	Release	10/23/17	FD	
1A	TEXT UPDATES	7/12/19	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 +/- .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 TX UNLESS OTHERWISE STATED

COMPANY: POWERTRAIN CONTROL SOLUTIONS

TITLE: GM 4 SPEED TRANSMISSION C6

SIZE: CUSTOMER DRAWING NO. PCS PART NUMBER  
C TCM-4666

DATE: 10/17/17 APPROVED BY: SHEET PAGE 2

Print Date  
7/12/2019  
1600

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