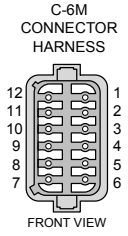


TCU-2600

QTY	DESCRIPTION	PCS	PIN	NOTES
1	CONNECTOR	CON-1202	M/F	
34	TERMINALS	CON-1205		
1	CONNECTOR COVER	CON-1203		
21	CAVITY PLUG	CON-1204		

QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON5543	
3	TERMINALS	CON5510	
1	WEDGE	CON5544	



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

QTY	DESCRIPTION	PCS	PIN	NOTES
1	CONNECTOR	CON-1070		
2	TERMINALS	CON-1084	20 AWG	
2	CABLE SEAL	CON-1093	GRN	
1	TPA	CON-1072	GRY	

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

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

QTY	DESCRIPTION	PCS	PIN	NOTES
1	CONNECTOR	CON-2303		GREEN BODY
2	TERMINALS	CON-1006		
3	CABLE SEAL	CON-1004		

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

QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	CON-5532	M/F
8	TERMINALS	CON-5400	
1	WEDGE	CON-5533	

QTY	DESCRIPTION	PCS	PIN	NOTES
1	CONNECTOR	CON-2502		
1	RELAY	CON-2501		
4	TERMINAL	CON-2503		

QTY	DESCRIPTION	PCS	PIN	NOTES
1	CONNECTOR	CON-5542	GRY	
12	TERMINALS	CON-5504		
1	WEDGE	CON-5508	GRN	

PROVIDE A LAPTOP CALIBRATION CONNECT PROTECTIVE CAP

Print Date
11/29/2016
1700

APPLICABLE STANDARDS

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

NOTES

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
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11. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
12. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.

COMPANY: POWERTRAIN CONTROL SOLUTIONS

TITLE: GM 4 SPEED TRANSMISSION C6 REPLACEMENT [AA]

DATE: 7/21/16

APPROVED BY: XXXXX

DATE: XXXXX

PCB PART NUMBER: TCM-4661

SHEET: 2 OF 10

PIGTAIL FOLLOWS HARNESS AND EXITS AT C7 LOCATION (SEE NEXT PAGE)

PIGTAIL #1

LOCATION	DISCRPTION	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
LOOM6	1/4" BLACK CONVOLUTED LOOM	4"	WRE-3000
LOOM7	1/4" BLACK CONVOLUTED LOOM	4"	WRE-3000
LOOM8	3/8" BLACK CONVOLUTED LOOM	9"	WRE-3001
LOOM9	3/8" BLACK CONVOLUTED LOOM	45"	WRE-3001

NUM	NAME	PART #	NOTES
L1	TCM 4661-001 4/70E 2010+ TO	WRE-8501	P377
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	1 BAR MAP SENSOR	WRE-8500	P305
L8	RY1 REV LIGHT RELAY	WRE-8500	P278
L9	SHIFTER CONNECTOR	WRE-8500	P376

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

QTY	DESCRIPTION	PIN	NOTES
1	CONNECTOR	12129615	
3	CAVITY PLUG	12059168	DK_RED
1	SECONDARY LOCK	12052845	
1	PIN BLOCKING PLUG		

1 BAR MAP SENSOR CONNECTOR

PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
A	SIGNAL GND	BLK/WHT	S4, TCU-56
B	SENSOR OUTPUT	YEL/RED	S2, TCU-45
C	+5V REF	RED/WHT	S3, TCU-21

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	TOSS+	ORG/RED	25
B	TOSS-	BLK/WHT	23

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.	NOTES
30	POWER	BLU/RED	TCU-Z, S1	18 AWG
87	BRAKE ON	YEL	TCU-R	
85	GND	BLU/RED	TCU-S, S2	
86	BREAK LIGHT SW	BRN/RED	C8 PIN 6	

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	PIN	????	C1-W

PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
1	DIG IN 10	BRN/RED	TCU-30
2	DIG IN 11	BRN/LT.GRN	TCU-31
3	DIG IN 12	BRN/LT.BLU	TCU-32
4	HORN SIG	ORN	UNTERM
5	NEUTRAL SAFETY	WHT	UNTERM
6	NEUTRAL SAFETY	BLU	UNTERM
7	DIG IN 9	BRN/BLK	TCU-29
8	SIGNAL GND	BLK/WHT	TCU-56, S4

NEUTRAL SAFETY AND HORN
36" FROM BREAKOUT
REVERSE LIGHT CIRCUIT BREAKOUT

PIN	CIRCUIT FUNCTION	COLOR	GOES TO
1	CAN1 L	WHIT/BLK	TCU-16
2	PIN	WHITE	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

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

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	TACH IN	ORG/LT.GRN	38
B	SENSOR GND	BLK/WHT	37

LEVEL	DESCRIPTION	DATE	DRN	APP
1	Release	5/27/15	FD	
1A	CORRECT C4 CON #	9/15/15	FD	
1B	DRAWING # CORRECTED FROM 4641 TO 4660	8/4/16	FD	
1C	DRAWING # CORRECTED FROM 4641 TO 4661	11/21/16	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 +/- 1/32 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 REPLACEMENT [AA]
 SIZE: C CUSTOMER DRAWING NO. XXXXX-XXXXX PCS PART NUMBER TCM-4661 REV: 001
 DRAWN BY: FRED D. DATE: 7/2/16 APPROVED BY: XXXXX DATE: SHEET 3 OF 10

Print Date
11/22/2016
1700

PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
1	NC	NC	NC
2	NC	NC	NC
3	NC	NC	NC
4	NC	YEL	NC
5	NC	NC	NC
6	NC	NC	NC
7	NC	NC	NC
8	NC	NC	NC
9	NC	NC	NC
10	+12V BATT	RED	UNTERM
11	+12V IGNITION	YEL	UNTERM
12	GROUND	BLK	UNTERM

