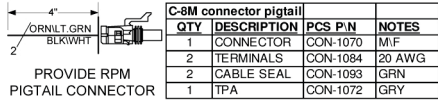




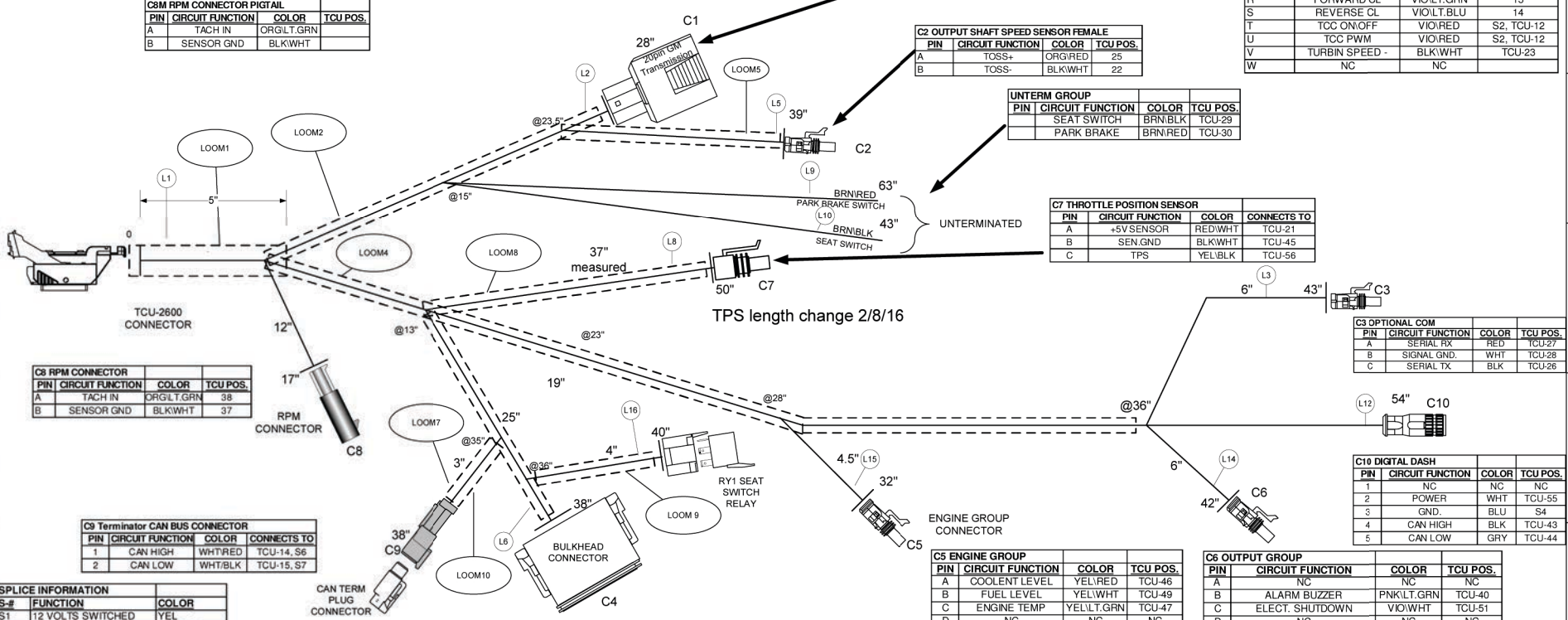
PROVIDE A RPM PIGTAIL CONNECTOR WITH 4" LEADS



PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	TACH IN	ORGLT.GRN	
B	SENSOR GND	BLK/WHT	

LOCATION	DISCRIPTION	LENGTH	PART#
LOOM1	3/4" BLACK CONVULUTED LOOM	5"	WRE-3005
LOOM2	1/2" BLACK CONVULUTED LOOM	23"	WRE-3003
LOOM3	1/4" BLACK CONVULUTED LOOM	37"	WRE-3000
LOOM4	1/2" BLACK CONVULUTED LOOM	37"	WRE-3003
LOOM5	3/8" BLACK CONVULUTED LOOM	15.5"	WRE-3001
LOOM6	NO LONGER USED		
LOOM7	1/4" BLACK CONVULUTED LOOM	3"	WRE-3000
LOOM8	1/4" BLACK CONVULUTED LOOM	79"	WRE-3000
LOOM9	1/4" BLACK CONVULUTED LOOM	4"	WRE-3000
LOOM10	3/8" BLACK CONVULUTED LOOM	24"	WRE-3001

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-6
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-37, S3
P	NC	NC	NC
R	FORWARD CL	VIOLT.GRN	13
S	REVERSE CL	VIOLT.BLU	14
T	TCC ON/OFF	VIOL/RED	S2, TCU-12
U	TCC PWM	VIOL/RED	S2, TCU-12
V	TURBIN SPEED -	BLK/WHT	TCU-23
W	NC	NC	NC



PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	TOSS+	ORG/RED	25
B	TOSS-	BLK/WHT	22

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
	SEAT SWITCH	BRN/BLK	TCU-29
	PARK BRAKE	BRN/RED	TCU-30

PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
A	+5V SENSOR	RED/WHT	TCU-21
B	SEN.GND	BLK/WHT	TCU-45
C	TPS	YEL/BLK	TCU-56

PIN	CIRCUIT FUNCTION	COLOR	CONNECTS TO
A	TACH IN	ORGLT.GRN	38
B	SENSOR GND	BLK/WHT	37

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.
1	NC	NC	NC
2	POWER	WHT	TCU-55
3	GND.	BLU	S4
4	CAN HIGH	BLK	TCU-43
5	CAN LOW	GRY	TCU-44

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	COOLENT LEVEL	YEL/RED	TCU-46
B	FUEL LEVEL	YEL/WHT	TCU-49
C	ENGINE TEMP	YEL/LT.GRN	TCU-47
D	NC	NC	NC
E	Oil PRES	YEL/LT.BLU	TCU-48
F	RPM INPUT	ORN/LT.GRN	TCU-38

PIN	CIRCUIT FUNCTION	COLOR	TCU POS.
A	NC	NC	NC
B	ALARM BUZZER	PNK/LT.GRN	TCU-40
C	ELECT. SHUTDOWN	VIOWHT	TCU-51
D	NC	NC	NC
E	ENGINE SHUTDOWN	PNK/LT.BLU	TCU-41
F	NC	NC	NC

PIN	CIRCUIT FUNCTION	COLOR	GOES TO
1	CAN1 L	WHT/BLK	TCU-16
2	NC	NC	NC
3	NC	NC	NC
4	NC	NC	NC
5	NC	NC	NC
6	NC	NC	NC
7	CAN1 H	WHT/RED	TCU-15
8	NC	NC	NC
9	NC	NC	NC
10	+12V BATTERY	RED	TCU-20
11	+12 VOLTS IGNITION	YEL	TCU-19,S1
12	CHASSIS GND	BLK	TCU-42

S#	FUNCTION	COLOR
S1	12 VOLTS SWITCHED	YEL
S2	TCC CONTROL	VIOL/RED
S3	SIGNAL GND	BLK/WHT
S4	CHASSIS GND 2	BLK
S5	RPM	ORN/LT.GRN
S6	CAN HIGH	WHT/RED
S7	CAN LOW	WHT/BLK
S8	SEAT SW RELAY	BRN/BLK

NUM	NAME	PART #
L1	TCM-4835-005	WRE-8501 P-321
L2	TRANSMISSION CONNECTOR	WRE-8500 P107
L3	OPPTIONAL COM NOT REQUIRED	WRE-8500 P-004
L4	NOT USED	
L5	TOSS	WRE-8500 P-008
L6	BULKHEAD CONNECTOR	WRE-8500 P-035
L7	NOT USED	
L8	TPS SENSOR	WRE-8500 P002
L9	SEAT SWITCH	WRE-8500 P-226
L10	NOT USED	
L11	NU	NU NU
L12	DIGITAL DASH	WRE-8500 P-228
L13	REAR BRAKE	WRE-8500 P-230
L14	OUTPUT GROUP CONNECTOR	WRE-8500 P-308
L15	ENGINE GROOP CONNECTOR	WRE-8500 P-307
L16	RY1 SEAT SWITCH RELAY	WRE-8500

TXI	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	

LEVEL	DESCRIPTION	DATE	DRN	APP
5	Release	11/15/16	FD	
5A	DRAW REDLINE UPDATE	6/7/17	FD	

APPLICABLE STANDARDS

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

NOTES:

- 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 10-15 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 6X UNLESS OTHERWISE STATED

COMPANY: POWERTRAIN CONTROL SOLUTIONS

TITLE: 4L70E 2010+ TRANSMISSION MOUNTED TO TCU-2800

APPROVED BY: FRED D. DATE: 11/9/2015

SIZE: C CUSTOMER DRAWING NO: XXXXX-XXXXX PCS PART NUMBER: TCM-4835 REV: 005

DRAWN BY: FRED D. DATE: 11/9/2015 APPROVED BY: XXXXX DATE: SHEET 3 OF 9

Print Date  
9/29/2017  
1700