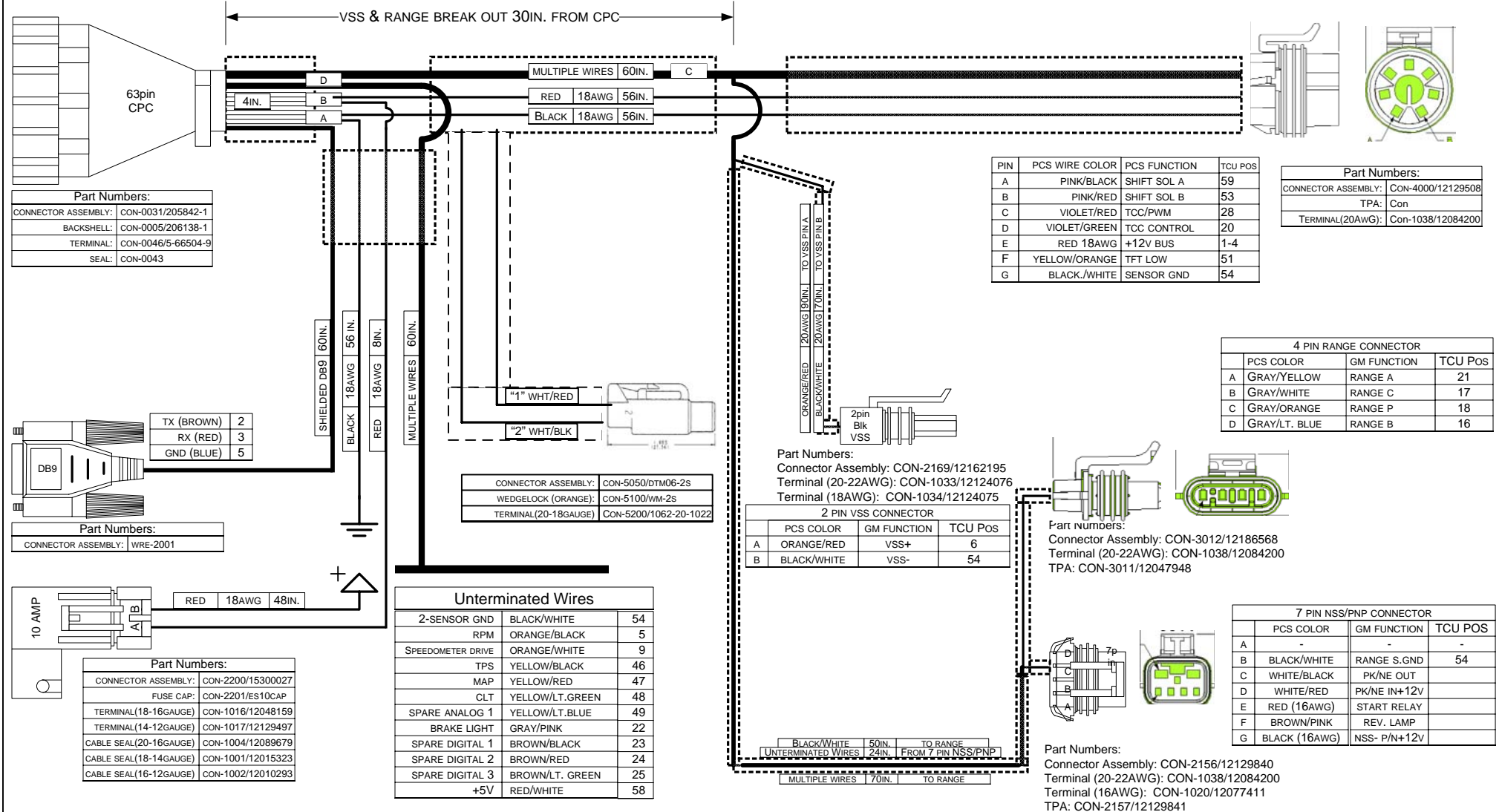
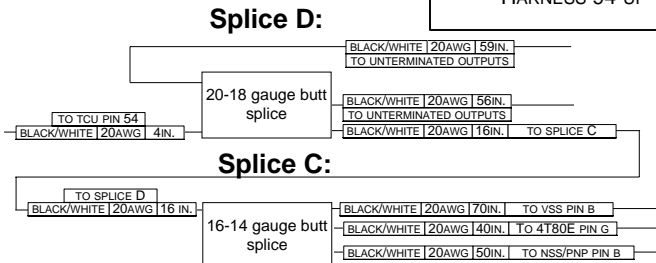
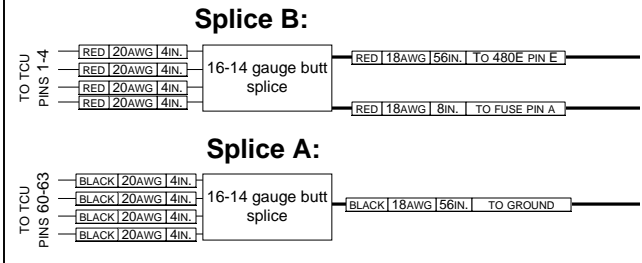


REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	9/27/06	JT



PIN	PCS WIRE COLOR	PCS FUNCTION	TCU POS
A	PINK/BLACK	SHIFT SOL A	59
B	PINK/RED	SHIFT SOL B	53
C	VIOLET/RED	TCC/PWM	28
D	VIOLET/GREEN	TCC CONTROL	20
E	RED 18AWG	+12V BUS	1-4
F	YELLOW/ORANGE	TFT LOW	51
G	BLACK./WHITE	SENSOR GND	54

Part Numbers:

CONNECTOR ASSEMBLY:	CON-4000/12129508
TPA:	Con
TERMINAL(20AWG):	Con-1038/12084200

4 PIN RANGE CONNECTOR

PCS COLOR	GM FUNCTION	TCU POS
A GRAY/YELLOW	RANGE A	21
B GRAY/WHITE	RANGE C	17
C GRAY/ORANGE	RANGE P	18
D GRAY/LT. BLUE	RANGE B	16

2 PIN VSS CONNECTOR

PCS COLOR	GM FUNCTION	TCU Pos
A ORANGE/RED	VSS+	6
B BLACK/WHITE	VSS-	54

Unterminated Wires

	PCS COLOR	TCU POS
2-SENSOR GND	BLACK/WHITE	54
RPM	ORANGE/BLACK	5
SPEEDOMETER DRIVE	ORANGE/WHITE	9
TPS	YELLOW/BLACK	46
MAP	YELLOW/RED	47
CLT	YELLOW/LT.GREEN	48
SPARE ANALOG 1	YELLOW/LT.BLUE	49
BRAKE LIGHT	GRAY/PINK	22
SPARE DIGITAL 1	BROWN/BLACK	23
SPARE DIGITAL 2	BROWN/RED	24
SPARE DIGITAL 3	BROWN/LT. GREEN	25
+5V	RED/WHITE	58

# Powertrain Control Solutions, LLC.

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Ashland, VA 23005

[www.ptcs.us](http://www.ptcs.us)

Phone: (804) 752-6025  
Fax: (804) 752-3516

TITLE:

## TCU 4T60E HARNESS

PART NUMBER: TCM - 4101

DESCRIPTION:  
HARNESS DIAGRAM FOR 4T60E  
APPLICATIONS 94 - UP

DRAWN BY: Jim Taylor

DATE: 9/27/2006

PAGE: 2 OF 2

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	9/27/2006	JT

CPC	Pin Function	Harness Function	4T80E	colors
1	+12v	Battery Connection	+12v	red
2	+12v	Battery Connection	+12v	red
3	+12v	Battery Connection	+12v	red
4	+12v	Battery Connection	+12v	red
5	Speed Input 1	Engine Speed Input	RPM	orange/black
6	Speed Input 2	Transmission Speed Input	VSS	orange/red
7	Speed Input 3	TCC Speed Input	-	orange/lt. green
8	Speed Input 4	Optional Speed Input	-	orange/lt. blue
9	Speed Output	Speedometer Drive Output	Speedometer In	orange/white
10	unused	-	-	-
11	unused	-	-	-
12	PWM Out 4/freq2	PWM/Solenoid Driver	-	violet/lt. blue
13	Digital Input 1	Digital Input	-	gray/black
14	Digital Input 2	Digital Input	-	gray/red
15	Digital Input 3	Digital Input	-	gray/lt. green
16	Digital Input 4	Digital Input	Range B	gray/lt. blue
17	Digital Input 5	Digital Input	Range C	gray/white
18	Digital Input 6	Digital Input	Range P	gray/orange
19	Digital Out 5	Digital Driver	-	pink/white
20	PWM Out 3/freq2	PWM/Solenoid Driver	TCC Control	violet/lt. green
21	Digital Input 7	Digital Input	Range A	gray/yellow
22	Digital Input 8	Digital Input	Brake Light	gray/pink
23	Digital Input 9	Digital Input	Spare Dig 1	brown/black
24	Digital Input 10	Digital Input	Spare Dig 2	brown/red
25	Digital Input 11	Digital Input	Spare Dig 3	brown/lt. green
26	Digital Input 12	Digital Input	-	brown/lt. blue
27	Digital Out 6	Digital Driver	-	pink/orange
28	PWM Out 2/freq1	PWM/Solenoid Driver	TCC/PWM	violet/red
29	unused	-	-	-
30	RS-232 Transmit	Communications Cable	db9	white/orange
31	RS-232 Receive	Communications Cable	db9	white/lt. blue
32	CAN/RS-232 GND	Communications Cable	db9	white/lt. green
33	CAN High	Communications Cable	-	white/red
34	CAN Low	Communications Cable	-	white/black
35	unused	-	-	-
36	Digital Out 3/PWM 9	Digital Driver	-	pink/lt. green
37	PWM Out 1/freq 1	PWM/Solenoid Driver	-	violet/black
38	unused	-	-	-
39	Digital Input 13	Digital Input	-	brown/white
40	Digital Input 14	Digital Input	-	brown/orange
41	Digital Input 15	Digital Input	-	brown/yellow
42	Digital Input 16	Digital Input	-	brown/pink
43	unused	-	-	-
44	Digital Out 4	Digital Driver	-	pink/lt. blue
45	PWM Out 6/freq1	PWM/Solenoid Driver	-	violet/orange
46	Analog Input 1	Analog Input	TPS	yellow/black
47	Analog Input 2	Analog Input	MAP	yellow/red
48	Analog Input 3	Analog Input	CLT	yellow/lt. green
49	Analog Input 4	Analog Input	Spare Analog	yellow/lt. blue
50	Analog Input 5/temp	Analog Input	-	yellow/white
51	Analog Input 6/temp	Analog Input	TFT Low	yellow/orange
52	Pwm Out 5/freq1	PWM/Solenoid Driver	-	violet/white
53	Digital Out 2/PWM 8	Digital Driver	Shift Sol B	pink/red
54	Sensor/AD Gnd	Sensor or reference Gnd	Sensor Gnd	black/white
55	unused	-	-	-
56	unused	-	-	-
57	unused	-	-	-
58	Ref Voltage (+5v)	Sensor/reference Voltage	+5V	red/white
59	Digital Out 1/PWM 7	Digital Driver	Shift Sol A	pink/black
60	Gnd	Battery Connection	Gnd	black
61	Gnd	Battery Connection	Gnd	black
62	Gnd	Battery Connection	Gnd	black
63	Gnd	Battery Connection	Gnd	black

db9 pinout	DB9
1	none
2	transmit
3	receive
4	none
5	gnd
6	none
7	none
8	none
9	none

Extra Wires List	
1	orange/lt. blue
2	violet/lt. blue
3	pink/white
4	violet/lt. green
5	brown/lt. blue
6	pink/orange
7	pink/lt. green
8	brown/white
9	brown/orange
10	brown/yellow
11	brown/pink
12	pink/lt. blue
13	violet/orange
14	yellow/white
15	violet/white