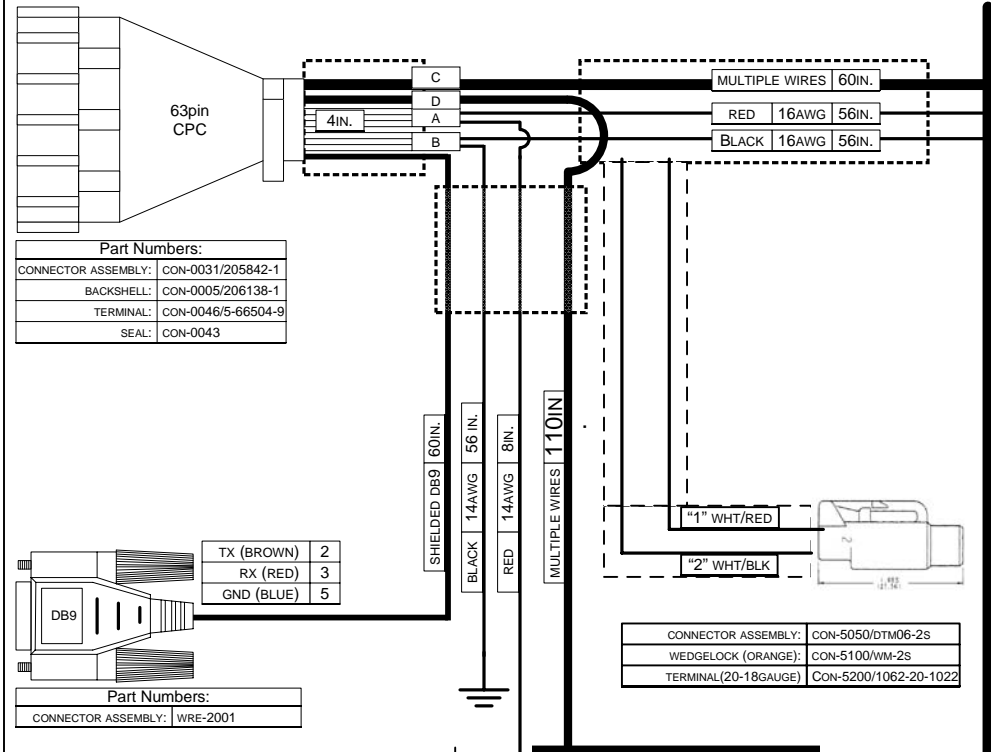
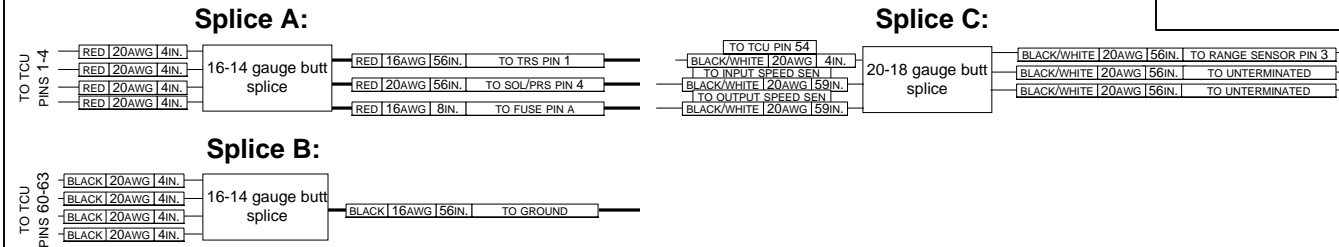


PART NUMBER: TCM-4121	REV. 0	DESCRIPTION	DATE	BY
DESCRIPTION: 42LE		ENTER DIAGRAM DESCRIPTION	05/01/2006	JT

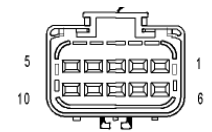


Unterminated Wires			
2-SENSOR GND	BLACK/WHITE	54	
RPM	ORANGE/BLACK	5	
BRAKE LIGHT	GRAY/PINK	22	
TPS	YELLOW/BLACK	46	
MAP	YELLOW/RED	47	
CLT	YELLOW/LT.GREEN	48	
SPARE DIGITAL 1	BROWN/BLACK	23	
SPARE DIGITAL 2	BROWN/RED	24	
SPARE DIGITAL 3	BROWN/LT.GREEN	25	
+ 5 V	RED/WHITE	58	

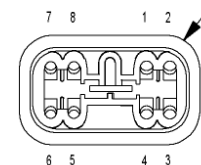
Input Speed Sensor 5013948AA Red			
PIN	FUNCTION	COLOR	TCU PIN
1	SPEED SENSOR GROUND	BLACK/WHITE	54
2	INPUT SPEED SENSOR SIGNAL	ORANGE/LT.GREEN	7

Output Speed Sensor 5013950AA Blue			
PIN	FUNCTION	COLOR	TCU PIN
1	SPEED SENSOR GROUND	BLACK/WHITE	54
2	OUTPUT SPEED SENSOR SIGNAL	ORANGE/RED	6

Transmission Range Sensor 5017116AA Green			
PIN	FUNCTION	COLOR	TCU PIN
1	BACK-UP LAMP FEED/+12V INPUT	RED 20GA	1-4
2	N/A		
3	TFT -	BLACK/WHITE	54
4	TFT +	YELLOW/ORANGE	51
5	N/A		
6	BACK-UP LAMP OUTPUT	UNTERM OUTPUT	
7	TRS T1 SENSE (C4)	GRAY/LT.BLUE	16
8	TRS T3 SENSE (C3)	GRAY/LT.GREEN	15
9	TRS T42 SENSE (C2)	GRAY/RED	14
10	TRS T41 SENSE (C1)	GRAY/BLACK	13



TRANSMISSION RANGE SENSOR



TRANSMISSION SOLENOID/PRESSURE SWITCH ASSEMBLY

Solenoid/Pressure Switch R42LE			
PIN	FUNCTION	COLOR	TCU PIN
1	OD PRESSURE SENSE	GRAY/YELLOW	21
2	L/R PRESSURE SENSE	GRAY/WHITE	17
3	2-4 PRESSURE SENSE	GRAY/ORANGE	18
4	SOL FEED/+12V INPUT	RED 16 GA	1-4
5	2-4 SOLENOID	VIOLET/RED	28
6	L/R SOLENOID	VIOLET/BLACK	37
7	OD SOLENOID	VIOLET/ORANGE	45
8	UD SOLENOID	VIOLET/WHITE	52

Powertrain Control Solutions, LLC.

11139 Air Park Rd. Suite 2
Ashland, VA 23005

www.ptcs.us

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

TITLE:

19?? 42LE

PART NUMBER: TCM-4121

DESCRIPTION:
19?? 42LE

DRAWN BY: Jim Taylor DATE: 05/01/2006 PAGE: 2 OF 2

CPC	Pin Function	Harness Function	42LE	colors
1	+12v	Battery Connection	+ 12 v	red
2	+12v	Battery Connection	+ 12 v	red
3	+12v	Battery Connection	+ 12 v	red
4	+12v	Battery Connection	+ 12 v	red
5	Speed Input 1	Engine Speed Input	RPM	orange/black
6	Speed Input 2	Transmission Speed Input	OSS +	orange/red
7	Speed Input 3	TCC Speed Input	ISS +	orange/lt. green
8	Speed Input 4	Optional Speed Input	-	orange/lt. blue
9	Speed Output	Speedometer Drive Output	-	orange/white
10	unused	-	-	-
11	unused	-	-	-
12	PWM Out 4/freq2	PWM/Solenoid Driver	-	violet/lt. blue
13	Digital Input 1	Digital Input	TRS T41 (C1)	gray/black
14	Digital Input 2	Digital Input	TRS T42 (C2)	gray/red
15	Digital Input 3	Digital Input	TRST3 (C3)	gray/lt. green
16	Digital Input 4	Digital Input	TRST1 (C4)	gray/lt. blue
17	Digital Input 5	Digital Input	L/R PSA	gray/white
18	Digital Input 6	Digital Input	2-4 PSA	gray/orange
19	Digital Out 5	Digital Driver	-	pink/white
20	PWM Out 3/freq2	PWM/Solenoid Driver	TCC SOL	violet/lt. green
21	Digital Input 7	Digital Input	OD PSA	gray/yellow
22	Digital Input 8	Digital Input	BRAKE LIGHT	gray/pink
23	Digital Input 9	Digital Input	SPARE 1	brown/black
24	Digital Input 10	Digital Input	SPARE 2	brown/red
25	Digital Input 11	Digital Input	SPARE 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	2-4 SOL	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/PWM9	Digital Driver	-	pink/lt. green
37	PWM Out 1/freq1	PWM/Solenoid Driver	L/R SOL	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	OD SOL	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	-	yellow/lt. blue
50	Analog Input 5/temp	Analog Input	-	yellow/white
51	Analog Input 6/temp	Analog Input	TFT +	yellow/orange
52	Pwm Out 5/freq1	PWM/Solenoid Driver	UD SOL	violet/white
53	Digital Out 2/PWM8	Digital Driver	-	pink/red
54	Sensor/AD Gnd	Sensor or reference Gnd	ISS/OSS/TRS	black/white
55	unused	-	-	-
56	unused	-	-	-
57	unused	-	-	-
58	Ref Voltage (+5v)	Sensor/reference Voltage	+5V	red/white
59	Digital Out 1/PWM7	Digital Driver	-	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

REV.	DESCRIPTION	DATE	BY
0	ENTER DIAGRAM DESCRIPTION	05/01/2006	JT

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	orange/white
3	violet/blue
4	pink/white
5	brown/blue
6	pink/orange
7	pink/green
8	brown/white
9	brown/orange
10	brown/yellow
11	brown/pink
12	pink/blue
13	yellow/blue
14	yellow/white
15	pink/red
16	pink/black
17	violet/lt. green
18	
19	