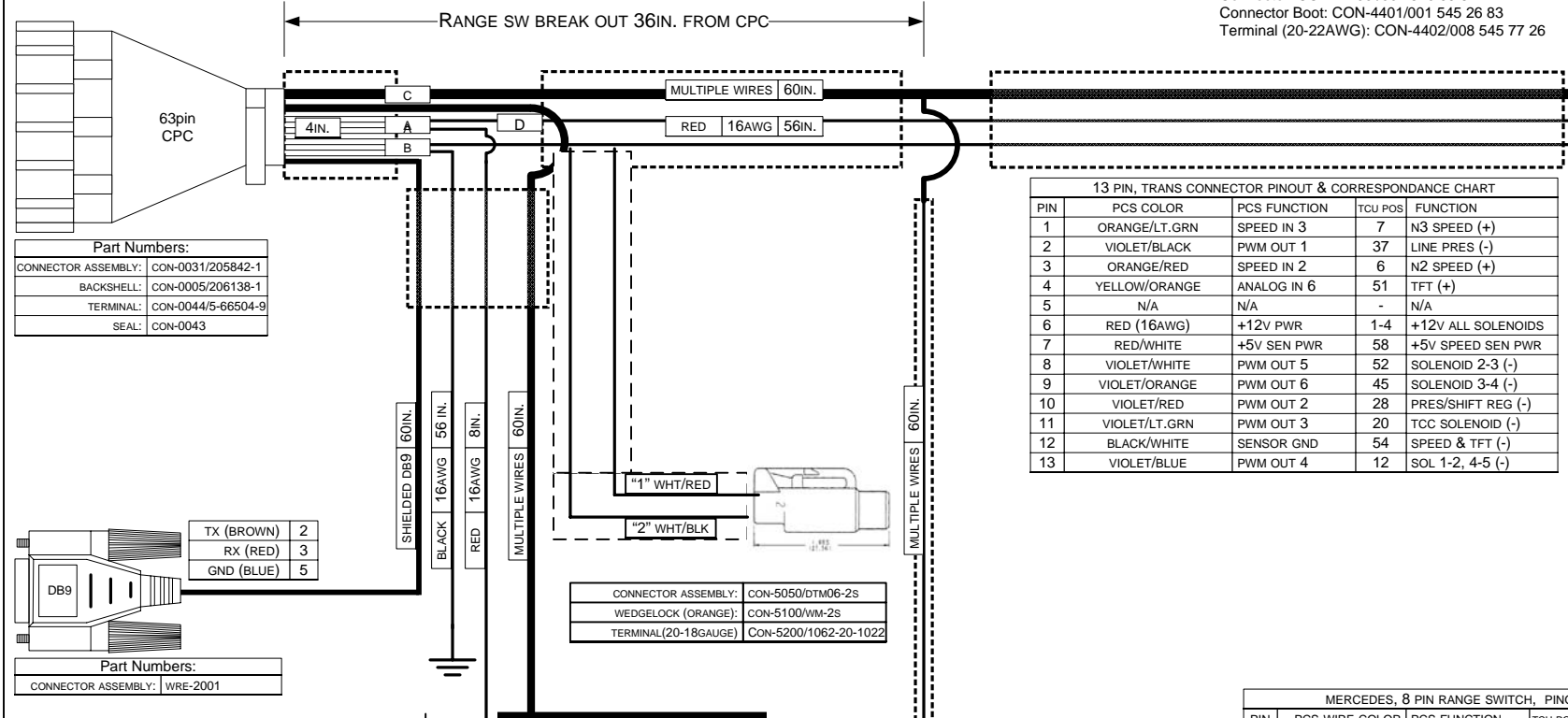
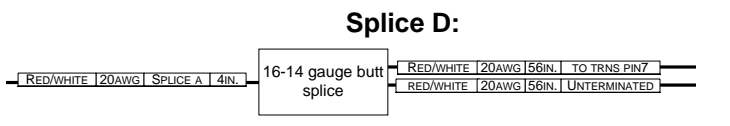
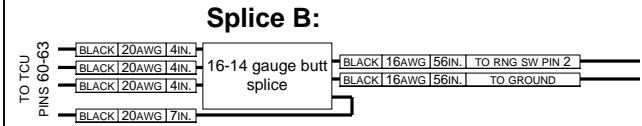
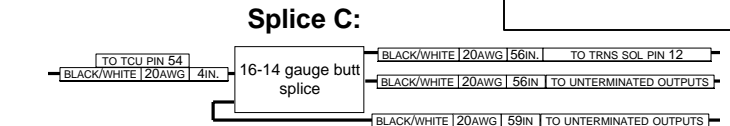
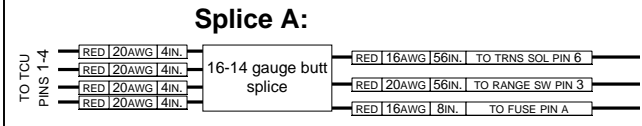
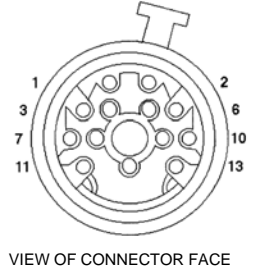


PART NUMBER: TCM-4128	REV. 0	DESCRIPTION ORIGINAL	DATE 12/14/2005	BY JT
DESCRIPTION:				



Part Numbers:  
 Connector: CON-4400/001 540 99 81  
 Connector Boot: CON-4401/001 545 26 83  
 Terminal (20-22AWG): CON-4402/008 545 77 26



13 PIN, TRANS CONNECTOR PINOUT & CORRESPONDANCE CHART

PIN	PCS COLOR	PCS FUNCTION	TCU POS	FUNCTION
1	ORANGE/LT.GRN	SPEED IN 3	7	N3 SPEED (+)
2	VIOLET/BLACK	PWM OUT 1	37	LINE PRES (-)
3	ORANGE/RED	SPEED IN 2	6	N2 SPEED (+)
4	YELLOW/ORANGE	ANALOG IN 6	51	TFT (+)
5	N/A	N/A	-	N/A
6	RED (16AWG)	+12V PWR	1-4	+12V ALL SOLENOIDS
7	RED/WHITE	+5V SEN PWR	58	+5V SPEED SEN PWR
8	VIOLET/WHITE	PWM OUT 5	52	SOLENOID 2-3 (-)
9	VIOLET/ORANGE	PWM OUT 6	45	SOLENOID 3-4 (-)
10	VIOLET/RED	PWM OUT 2	28	PRES/SHIFT REG (-)
11	VIOLET/LT.GRN	PWM OUT 3	20	TCC SOLENOID (-)
12	BLACK/WHITE	SENSOR GND	54	SPEED & TFT (-)
13	VIOLET/BLUE	PWM OUT 4	12	SOL 1-2, 4-5 (-)

Underminated Wires

WIRE	COLOR	GAUGE
2-SENSOR GND	BLACK/WHITE	54
RPM	ORANGE/BLACK	5
SPEEDOMETER	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/WHITE	17
SPARE DIG 1	GRAY/ORANGE	18
SPARE DIG 2	GRAY/YELLOW	21
SPARE DIG 3	GRAY/PINK	22
+ 5 V	RED/WHITE	58

MERCEDES, 8 PIN RANGE SWITCH, PINOUT & CORRESPONDANCE CHART

PIN	PCS WIRE COLOR	PCS FUNCTION	TCU POS	MERCEDES FUNCTION
1	GRAY/LT.BLUE	DIG IN 4	16	DLS POSITION W3-28
2	BLACK	GROUND	60-63	POWER GROUND (COMMON TO TCM)
3	RED (20AWG)	+12V PWR	1-4	+12V POWER
4	N/A	N/A	-	NEUTRAL (BPU)
5	N/A	N/A	-	PARK/NEUTRAL (ECM)
6	GRAY/RED	DIG IN 2	14	DLS POSITION W1-26
7	GRAY/BLACK	DIG IN 1	13	DLS POSITION W0-25
8	GRAY/LT.GRN	DIG IN 3	15	DLS POSITION W2-27

Part Numbers:  
 Connector Assembly:  
 Terminal (20-22AWG):CON-  
 Seal:CON-  
 TPA:

**Powertrain Control Solutions, LLC.**

11139 Air Park Rd. Suite 2  
Ashland, VA 23005

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

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

TITLE:

**MERCEDES 722.6**

PART NUMBER: TCM-

DESCRIPTION:

DRAWN BY: Jim Taylor DATE: 12/14/2005 PAGE: 2 OF 2

CPC	Pin Function	Harness Function	Mercedes	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	N2 SPEED (+)	orange/red
7	Speed Input 3	TCC Speed Input	N3 SPEED (+)	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	SOL 1-2,4-5 (-)	violet/lt. blue
13	Digital Input 1	Digital Input	DSL POS W0	gray/black
14	Digital Input 2	Digital Input	DSL POS W1	gray/red
15	Digital Input 3	Digital Input	DSL POS W2	gray/lt. green
16	Digital Input 4	Digital Input	DSL POS W3	gray/lt. blue
17	Digital Input 5	Digital Input	BRAKE LIGHT	gray/white
18	Digital Input 6	Digital Input	SPARE DIG 1	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	SPARE DIG 2	gray/yellow
22	Digital Input 8	Digital Input	SPARE DIG 3	gray/pink
23	Digital Input 9	Digital Input	-	brown/black
24	Digital Input 10	Digital Input	-	brown/red
25	Digital Input 11	Digital Input	-	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	PRES/SHFT REG (-)	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	Digital Driver	-	pink/lt. green
37	PWM Out 1/freq 1	PWM/Solenoid Driver	LINE PRES (-)	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	SOL 3-4 (-)	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 1	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	SOL 2-3 (-)	violet/white
53	Digital Out 2	Digital Driver	-	pink/red
54	Sensor/AD Gnd	Sensor or reference Gnd	OSS(-), TFT(-), TSS(-)	black/white
55	unused	-	-	-
56	unused	-	-	-
57	unused	-	-	-
58	Ref Voltage (+5v)	Sensor/reference Voltage	+5V	red/white
59	Digital Out 1	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	ORIGINAL	12/14/2005	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	brown/black
3	brown/red
4	brown/lt.green
5	brown/lt.blue
6	pink/orange
7	brown/white
8	brown/orange
9	brown/yellow
10	brown/pink
11	violet/orange
12	yellow/white
13	pink/blk
14	pink/red
15	pink/lt.grn
16	pink/lt.blue
17	pink/white