



Part Numbers:
 Connector: CON-2001/12160280
 TPA: CON-2003/12160494
 Terminal (20-22AWG): CON-2804/15359001
 Terminal (18AWG): CON-2805/15359002
 Seal: Con-2152/15304882 GREEN
 Conduit Clip: Con-2008/12176394

	PCS WIRE COLOR	PCS FUNCTION	TCU POS	GM FUNCTION
A	PINK/BLACK	DIGITAL OUTPUT 1	59	SHIFT SOL (1-2)
B	PINK/RED	DIGITAL OUTPUT 2	53	SHIFT SOL (2-3)
C	VIOLET/BLACK	PWM OUTPUT 1	37	LINE PRESS HI
D	BLACK	GROUND SOURCE	60-63	LINE PRESS LOW
E	RED (16AWG)	+12V SOURCE	1-4	+12V
F-K	-	-	-	NOT USED
L	YELLOW/ORANGE	ANALOG INPUT 6	51	TFT+
M	BLACK/WHITE	S.GROUND	54	TFT-
N	GRAY/BLACK	DIGITAL INPUT 1	13	TFP SW SIGNAL A
P	GRAY/LT.GREEN	DIGITAL INPUT 3	15	TFP SW SIGNAL C
R	GRAY/RED	DIGITAL INPUT 2	14	TFP SW SIGNAL B
S	ORANGE/LT.GREEN	SPEED INPUT 3	7	ISS HI SIGNAL
T	VIOLET/RED	PWM OUTPUT 2	28	TCC PWM
U	GRAY/PINK	DIGITAL INPUT 8	22	TCC RELEASE SWITCH
V	BLACK/WHITE	S.GROUND	54	TCC SPEED-
W	-	-	-	NOT USED

Part Numbers:
 Connector Assembly: CON-2169/12162195
 Terminal (20-22AWG): CON-1033/12124076
 Terminal (18AWG): CON-1034/12124075

PCS COLOR	GM FUNCTION
A ORANGE/RED	VSS+
B BLACK/WHITE	VSS-

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	BROWN/BLACK	23
SPARE DIGITAL 1	BROWN/RED	24
SPARE DIGITAL 2	BROWN/LT.GREEN	25
SPARE DIGITAL 3	BROWN/LT.BLUE	26
+5V REFERENCE	RED/WHITE	58
SPARE OUTPUT 1	VIOLET/LT.GREEN	20
SPARE OUTPUT 2	VIOLET/LT.BLUE	12

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TITLE:

4T45 HARNESS

PART NUMBER: TCM-4134

DESCRIPTION:
GM 4T45 (94-07) TRANSMISSION
HARNESS

DRAWN BY: Jim Taylor DATE: 10/11/2006 PAGE: 2 OF 2

REV.	DESCRIPTION	DATE	BY
0	4T45 (94-07) Style Transmission Harness	10/11/2006	JT

CPC	Pin Function	Harness Function	4T65E	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, from tach output	orange/black
6	Speed Input 2	Transmission Speed Input	VSS	orange/red
7	Speed Input 3	TCC Speed Input	TCC Speed	orange/lt. green
8	Speed Input 4	Optional Speed Input	-	orange/lt. blue
9	Speed Output	Speedometer Drive Output	GM PCM Speed Input	orange/white
10	unused	-	-	-
11	unused	-	-	-
12	PWM Out 4/freq2	Selectable H/L Multifunction/PWM/Solenoid Driver	Spare Output 2	violet/lt. blue
13	Digital Input 1	Digital Input	TFP A	gray/black
14	Digital Input 2	Digital Input	TFP B	gray/red
15	Digital Input 3	Digital Input	TFP C	gray/lt. green
16	Digital Input 4	Digital Input	-	gray/lt. blue
17	Digital Input 5	Digital Input	-	gray/white
18	Digital Input 6	Digital Input	-	gray/orange
19	Digital Out 5	Selectable H/L Multifunction/PWM/Solenoid Driver	-	pink/white
20	PWM Out 3/freq2	Selectable H/L Multifunction/Digital Driver	Spare Output 1	violet/lt. green
21	Digital Input 7	Digital Input	-	gray/yellow
22	Digital Input 8	Digital Input	TCC Release	gray/pink
23	Digital Input 9	Digital Input	Brake Light	brown/black
24	Digital Input 10	Digital Input	Spare Dig 1	brown/red
25	Digital Input 11	Digital Input	Spare Dig 2	brown/lt. green
26	Digital Input 12	Digital Input	Spare Dig 3	brown/lt. blue
27	Digital Out 6	Selectable H/L Multifunction/Digital Driver	-	pink/orange
28	PWM Out 2/freq1	Selectable H/L Multifunction/Digital 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	Selectable H/L Multifunction/PWM/Solenoid Driver	-	pink/lt. green
37	PWM Out 1/freq 1	Selectable H/L Multifunction/Digital Driver	Line Pressure Hi	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	Selectable H/L Multifunction/PWM/Solenoid Driver	-	pink/lt. blue
45	PWM Out 6/freq 1	Selectable H/L Multifunction/Digital 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	cit	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/freq 1	Selectable H/L Multifunction/PWM/Solenoid Driver	-	violet/white
53	Digital Out 2/PWM 8	Selectable H/L Multifunction/Digital Driver	2-3 Shift (Sol B)	pink/red
54	Sensor/AD Gnd	Sensor or reference Gnd	fluid temp/vss	black/white
55	unused	-	-	-
56	unused	-	-	-
57	unused	-	-	-
58	Ref Voltage (+5v)	Sensor or reference Voltage	Rererence	red/white
59	Digital Out 1/ PWM 7	Selectable H/L Multifunction/PWM/Solenoid Driver	1-2 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

Pin	Color
1	orange/lt. blue
2	
3	pink/white
4	pink/orange
5	pink/lt. green
6	brown/white
7	brown/orange
8	brown/yellow
9	brown/pink
10	pink/lt. blue
11	violet/orange
12	yellow/white
13	violet/white
14	gray/blue
15	gray/white
16	gray/orange
17	gray/pink

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