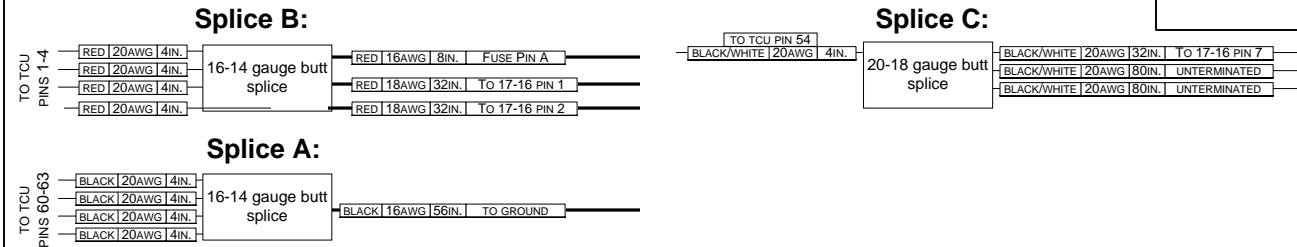
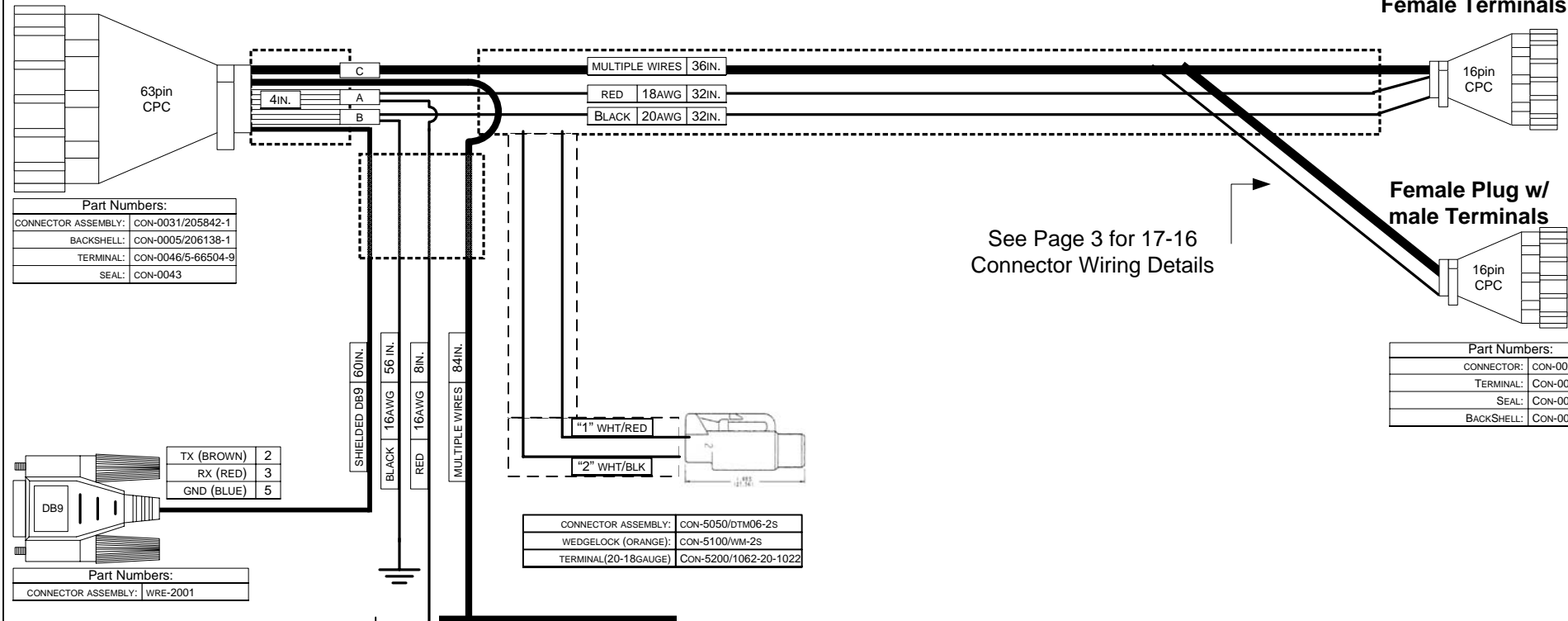


REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	10/11/06	JT



Part Numbers:

CONNECTOR:	CON-0022/206037-1
TERMINAL:	CON-0051/66100-7
SEAL:	CON-0039/213920-2
BACKSHELL:	CON-0004/206070-1



Part Numbers:

CONNECTOR ASSEMBLY:	CON-0031/205842-1
BACKSHELL:	CON-0005/206138-1
TERMINAL:	CON-0046/5-66504-9
SEAL:	CON-0043

Part Numbers:

CONNECTOR ASSEMBLY:	WRE-2001
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Part Numbers:

CONNECTOR ASSEMBLY:	CON-2200/15300027
FUSE CAP:	CON-2201/ES10CAP
TERMINAL(18-16GAUGE)	CON-1016/12048159
TERMINAL(14-12GAUGE)	CON-1017/12129497
CABLE SEAL(20-16GAUGE)	CON-1004/12089679
CABLE SEAL(18-14GAUGE)	CON-1001/12015323
CABLE SEAL(16-12GAUGE)	CON-1002/12010293

CONNECTOR ASSEMBLY:	CON-5050/DTM06-2S
WEDGELOCK (ORANGE):	CON-5100/WM-2S
TERMINAL(20-18GAUGE)	CON-5200/1062-20-1022

Unterminated Wires

Signal	Wire Color	Quantity
RPM	ORANGE/BLACK	5
SPEED IN	ORANGE/WHITE	9
TPS	YELLOW/BLACK	46
MAP	YELLOW/RED	47
CLT	YELLOW/GREEN	48
ANALOG IN	YELLOW/BLUE	49
+5V	RED/WHITE	58
SENSOR GND	2 BLACK/WHITE	54

Male Plug w/ Female Terminals

Female Plug w/ male Terminals

Part Numbers:

CONNECTOR:	CON-0022/206037-1
TERMINAL:	CON-0051/66100-7
SEAL:	CON-0039/213920-2
BACKSHELL:	CON-0004/206070-1

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:

5R55 S -W

PART #: TCM4132

DESCRIPTION:

S

DRAWN BY: Jim Taylor

DATE: 10/11/2006

PAGE: 2 OF 3

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	10/11/2006	JT

CPC	Pin Function	Harness Function	4R70/4R100	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	Turbine 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	violet/lt. blue
13	Digital Input 1	Digital Input	TR1	gray/black
14	Digital Input 2	Digital Input	TR2	gray/red
15	Digital Input 3	Digital Input	TR4	gray/lt. green
16	Digital Input 4	Digital Input	brake light	gray/lt. blue
17	Digital Input 5	Digital Input	Spare Dig1	gray/white
18	Digital Input 6	Digital Input	Spare Dig2	gray/orange
19	Digital Out 5	Digital Driver	-	pink/white
20	PWM Out 3/freq2	PWM/Solenoid Driver	Sol	violet/lt. green
21	Digital Input 7	Digital Input	Spare Dig3	gray/yellow
22	Digital Input 8	Digital Input	-	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	TCC PWM 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 / PWM 9	Digital Driver	CCS Sol	pink/lt. green
37	PWM Out 1/freq 1	PWM/Solenoid Driver	Line Pressure	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	DD	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 An1	yellow/lt. blue
50	Analog Input 5/temp	Analog Input	-	yellow/white
51	Analog Input 6/temp	Analog Input	fluid temp	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	fluid temp/vss	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	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

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

TCU Side

SIZE 17-16 MALE CONNECTOR WITH FEMALE TERMINALS			
PIN	WIRE COLOR	TCU FUNCTION	TCU PIN
1	RED (18AWG)	+12V	1-4
2	RED (18 AWG)	+12V	1-4
3	GRAY/BLACK	DIGITAL INPUT #1	13
4	GRAY/RED	DIGITAL INPUT #2	14
5	GRAY/LT. GREEN	DIGITAL INPUT #3	15
6	YELLOW/ORANGE	ANALOG INPUT #6	51
7	BLACK/WHITE	SIGNAL GROUND	54
8			
9	ORANGE/LT.GREEN	SPEED INPUT #3	7
10			
11	VIOLET/BLACK	PWM OUT #1	37
12			
13			
14	PINK/BLACK	DIGITAL OUT #1	59
15			
16	PINK/RED	DIGITAL OUT #2	53

5R55 S-W Side

SIZE 17-16 FEMALE CONNECTOR WITH MALE TERMINALS			
PIN	WIRE COLOR	5R55S/W FUNCTION	CONNECTOR/PIN #
1	VIOLET/YELLOW	+12V	199-3
2	VIOLET/YELLOW	+12V	
3	YELLOW/BLACK	TR1	167-4
4	LT.BLUE/BLACK	TR2	167-5
5	WHITE/BLACK	TR4	167-6
6	ORANGE/BLACK	TFT+	199-2
7	GRAY/RED	SIGNAL GROUND	199-12
8			
9	DARK GREEN/WHITE	TSS+	143-1
10			
11	WHITE/YELLOW	PRESSURE CONTROL A	199-11
12			
13			
14	ORANGE/YELLOW	SHIFT SOLENOID A	199-16
15			
16	VIOLET/ORANGE	SHIFT SOLENOID B	199-15

TCU Side

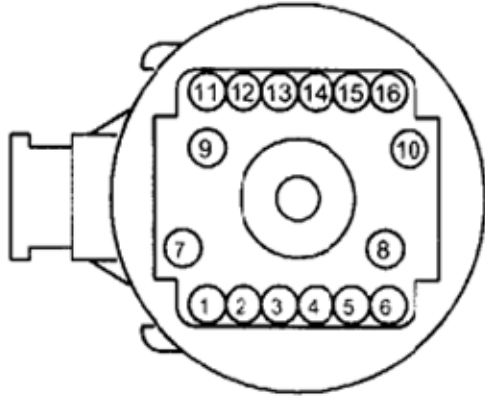
SIZE 17-16 FEMALE CONNECTOR WITH MALE TERMINALS			
PIN	WIRE COLOR	TCU FUNCTION	TCU PIN
1			
2			
3	PINK/LT.GREEN	DIGITAL OUTPUT #3	36
4			
5			
6	PINK/LT.BLUE	DIGITAL OUTPUT #4	44
7			
8	ORANGE/LT.BLUE	SPEED INPUT #4	8
9	ORANGE/RED	SPEED INPUT #2	6
10			
11	VIOLET/LT.GREEN	PWM OUT 3	20
12			
13			
14	VIOLET/RED	PWM OUT 2	28
15			
16	VIOLET/BLUE	PWM OUT 4	12

5R55 S-W Side

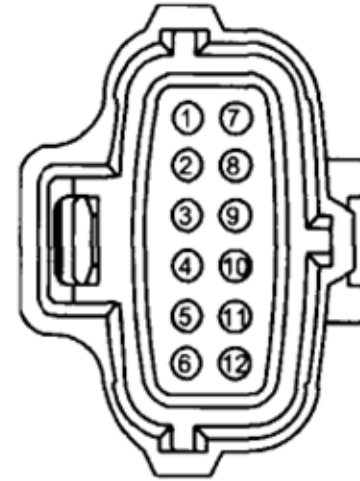
SIZE 17-16 MALE CONNECTOR WITH FEMALE TERMINALS			
PIN	WIRE COLOR	5R55S/W FUNCTION	CONNECTOR/PIN #
1			
2			
3	PINK/BLACK	SHIFT SOLENOID C	199-6
4			
5			
6	BROWN/ORANGE	SHIFT SOLENOID D	199-5
7			
8	YELLOW/LT.GREEN	ISS+	164-1
9	DARK BLUE/YELLOW	OSS+	193-1
10			
11	WHITE/ RED	PRESSURE CONTROL C	199-4
12			
13			
14	LT. BLUE/PINK	PRESSURE CONTROL B	199-1
15			
16	VIOLET/YELLOW	TCC CLUTCH	199-14

Ford 5R55S Connector Views

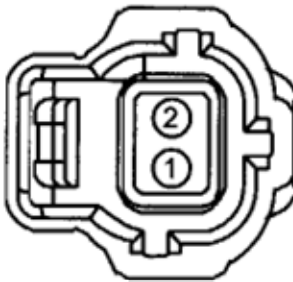
Connector C199 (Gray)
Transmission



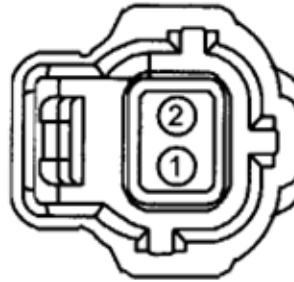
Connector C167 (Black)
Digital Range Sensor



Connector C143 (Black)
Turbine Shaft Speed



Connector C164 (Black)
Intermediate Shaft Speed



Connector C193 (Black)
Output Shaft Speed

