

# Powertrain Control Solutions, LLC.

11139 Air Park Rd. Suite 2 Ashland, VA 23005  
 www.ptcs.us Phone: (804) 752-6025 Fax: (804) 752-3516

DRAWN BY: Jim Taylor DATE: 05/05/2005 PAGE: 1 OF 2

TITLE:

## XFC WIRING CHART

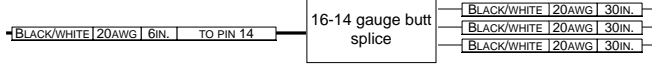
PART NUMBER: XFC-4000

DESCRIPTION:

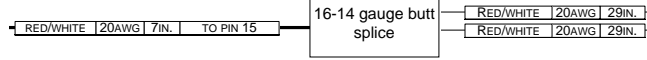
XTENDED FUEL CONTROLLER

REV.	DESCRIPTION	DATE	BY
0		05/05/2005	JT

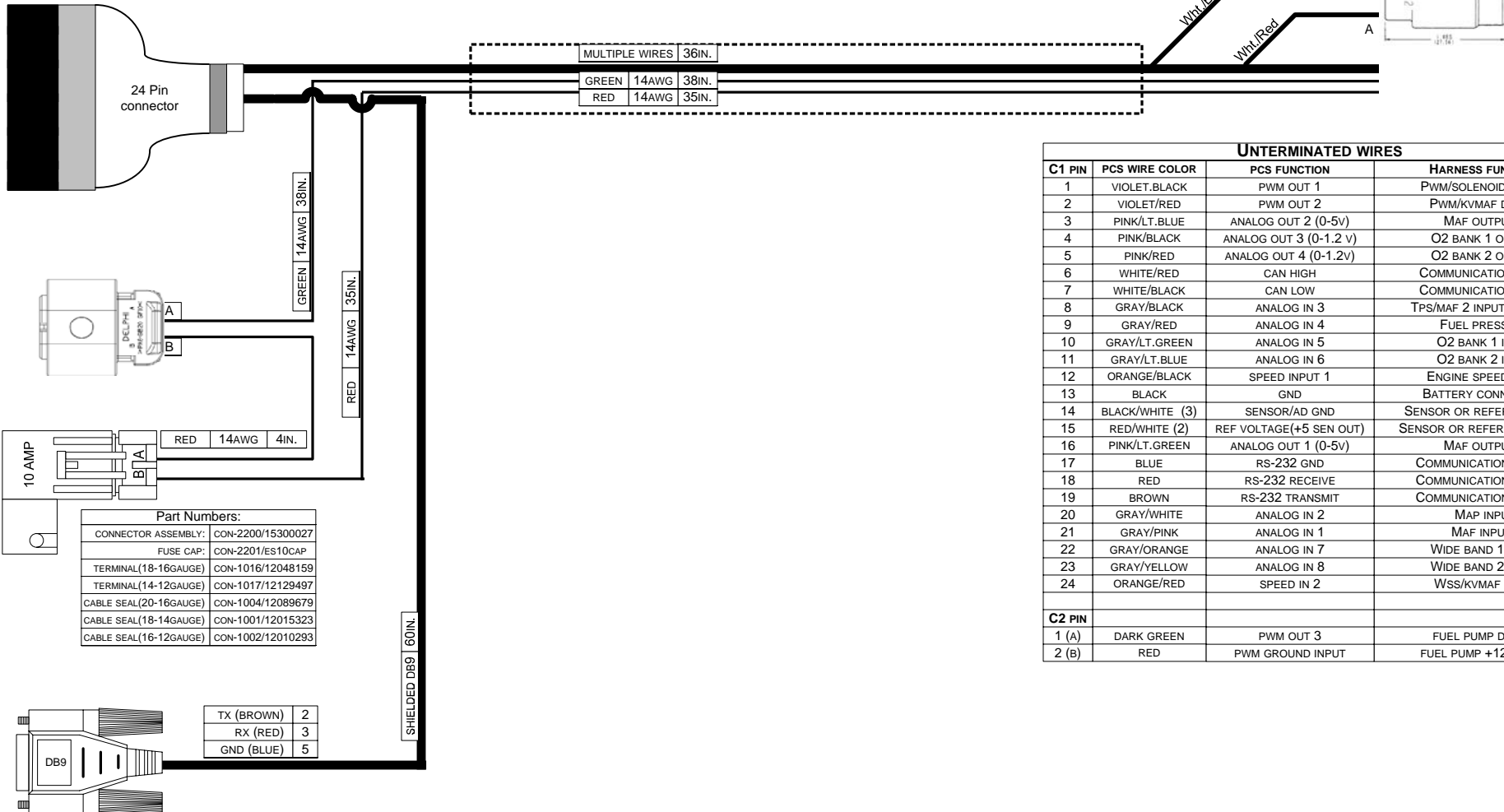
### Splice A:



### Splice B:



Part Numbers:	
CONNECTOR ASSEMBLY:	CON-2800/12129225
	CON-2801/12129183
BACKSHELL:	CON-2803/12129858
TERMINAL:	CON-2804/15359001
SEAL:	CON-2802/12110403



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

TX (BROWN)	2
RX (RED)	3
GND (BLUE)	5

Part Numbers:	
CONNECTOR ASSEMBLY:	WRE-2001

UNTERMINATED WIRES			
C1 PIN	PCS WIRE COLOR	PCS FUNCTION	HARNESS FUNCTION
1	VIOLET.BLACK	PWM OUT 1	PWM/SOLENOID DRIVER
2	VIOLET/RED	PWM OUT 2	PWM/KVMAF DRIVER
3	PINK/LT.BLUE	ANALOG OUT 2 (0-5v)	MAF OUTPUT 2
4	PINK/BLACK	ANALOG OUT 3 (0-1.2 v)	O2 BANK 1 OUTPUT
5	PINK/RED	ANALOG OUT 4 (0-1.2v)	O2 BANK 2 OUTPUT
6	WHITE/RED	CAN HIGH	COMMUNICATION CABLE
7	WHITE/BLACK	CAN LOW	COMMUNICATION CABLE
8	GRAY/BLACK	ANALOG IN 3	TPS/MAF 2 INPUT/AIR TEMP
9	GRAY/RED	ANALOG IN 4	FUEL PRESSURE
10	GRAY/LT.GREEN	ANALOG IN 5	O2 BANK 1 INPUT
11	GRAY/LT.BLUE	ANALOG IN 6	O2 BANK 2 INPUT
12	ORANGE/BLACK	SPEED INPUT 1	ENGINE SPEED INPUT
13	BLACK	GND	BATTERY CONNECTION
14	BLACK/WHITE (3)	SENSOR/AD GND	SENSOR OR REFERENCE GND
15	RED/WHITE (2)	REF VOLTAGE(+5 SEN OUT)	SENSOR OR REFERENCE VOLTS
16	PINK/LT.GREEN	ANALOG OUT 1 (0-5v)	MAF OUTPUT 1
17	BLUE	RS-232 GND	COMMUNICATIONS CABLE
18	RED	RS-232 RECEIVE	COMMUNICATIONS CABLE
19	BROWN	RS-232 TRANSMIT	COMMUNICATIONS CABLE
20	GRAY/WHITE	ANALOG IN 2	MAP INPUT
21	GRAY/PINK	ANALOG IN 1	MAF INPUT1
22	GRAY/ORANGE	ANALOG IN 7	WIDE BAND 1 INPUT
23	GRAY/YELLOW	ANALOG IN 8	WIDE BAND 2 INPUT
24	ORANGE/RED	SPEED IN 2	WSS/KVMAF INPUT
<b>C2 PIN</b>			
1 (A)	DARK GREEN	PWM OUT 3	FUEL PUMP DRIVER
2 (B)	RED	PWM GROUND INPUT	FUEL PUMP +12V INPUT

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TITLE:

**XFC HARNESS**

PART NUMBER: XFC-4000

DESCRIPTION:  
 XTENDED FUEL CONTROLLER

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REV.	DESCRIPTION	DATE	BY
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<b>C1</b>	<b>Pin Function</b>	<b>Harness Function</b>	<b>colors</b>
1	PWM Out/Freq MAF Out 1	PWM 1	violet/black
2	PWM Out/Freq MAF Out 2	PWM2	violet/red
3	Analog MAF Out 2 (0-5v)	MAF Output 2	pink/lt. blue
4	Oxygen Out 1(0-1.2volts)	O2 Bank 1 Output	pink/black
5	Oxygen Out 2 (0-1.2volts)	O2 Bank 2 Output	pink/red
6	CAN High	Communications Cable	white/red
7	CAN Low	Communications Cable	white/black
8	Analog Input 3	Throttle Position	gray/black
9	Analog Input 4	Spare Analog	gray/red
10	Oxygen In 1(0-1.2 volts)	O2 Bank 1 Input	gray/lt. green
11	Oxygen In 2 (0-1.2 volts)	O2 Bank 2 Input	gray/lt. blue
12	Speed Input 1	Engine Speed Input	orange/black
13	Gnd	Battery Connection	black
14	Sensor/AD Gnd	Sensor or reference Gnd	black/white
15	Ref Voltage (+5v Sensor Output)	Sensor/reference Voltage	red/white
16	Analog MAF Out 1(0-5v)	MAF Output 1	pink/lt. green
17	RS-232 GND	Communications Cable	white/lt. green
18	RS-232 Receive	Communications Cable	white/lt. blue
19	RS-232 Transmit	Communications Cable	white/orange
20	Analog Input 2	MAP Input	gray/white
21	Analog Input 1	MAF Input 1	gray/pink
22	Analog Input 5	Wide Band 1 Input	gray/orange
23	Analog Input 6	Wide Band 2 Input	gray/yellow
24	Speed Input 2	VSS/KVMAF Input	orange/red

<b>C2</b>	<b>Pin Function</b>	<b>Harness Function</b>	<b>colors</b>
1	PWM Out 3	Fuel Pump Driver	dk. green
2	PWM Ground Input	Fuel Pump +12v Input	Red
<b>DB9 Female to Female</b>	<b>DB9 pinout</b>		
1	-	-	-
2	brown	transmit	brown
3	red	receive	red
4	-	-	-
5	blue	gnd	blue
6	-	-	-
7	-	-	-
8	-	-	-
9	-	-	-