Courtesy of George Dodworth www.sevenspeed.com

General Wiring information for the use of the PowerFC as a standalone computer for engine swaps.

Use the info? Email me pics of your project to info@sevenspeed.com!!

X = REMOVE O=OPTIONAL XS = REMOVE FOR SINGLE TURBO XM = REMOVE FOR NO OMP

PIN	REMOVE?	Function	Connect to Recipient Vehicle:	
1A		Constant +12V Input	Battery Constant +12V	
1B		Switched +12V Input	Source of switched +12V, IGN	
1C		Ign Start Switch Input	+12V only when cranking	
1D	0	Warn lamp Output	,	
1E	Χ	A/C Sw Input		
1F	0	Diagnostic Buzzer Output		
1G		Front Trail Igniter Output	IGNITER Brown	
1H		Leading Igniter Output	IGNITER Light Green	
11	Χ	Diagnostic TEN terminal	, and the second	
1J		Trailing Rear Igniter Output	IGNITER Brown / Black	
1K	X	Fuel pump Relay Output (if pump re-wired with no resistor)		
1L	X	A/C Relay Output		
1M	0	Speedometer Input		
1N	X	P/S Pressure Switch Input		
10		Boost sensor Input	Boost Sensor (sensor also needs +/- Vref from X-05)	
1P	X	No Connection		
1Q	0	Clutch Switch Input		
1R	0	Neutral Switch Input		
1S	0	Brake light Input		
1T	0	Main Fuel pump relay Output		
1U	X	Fuel thermosensor Input (Set all settings to Zero)		
1V	X	No Connection		
2A	Χ	No Connection	Delete this plug!	
2B	X	Diagnostic IG terminal RPM diagnostic terminal		
2C	X	Automatic Transmission		
2D	X	Automatic Transmission		
2E	X	Automatic Transmission		
2F	X	Canada		
2G	X	Automatic Transmission		
2H	X	No Connection		
21	X	Heat Hazard Input		
2J	X	Air Pump Relay Output		
2K	X	1-2 Switch		
2L	X	1-2 Switch		

3A	XM	MOP Position sensor Input
3B	X	Elec Load Input
3C	^	O2 Sensor Input
3D	0	Cooling Fan relay Output
3E	Ü	H2O Thermosensor Input
3F		TPS narrow Input
3G		TPS full range Input
3H	XS	Purge Control Valve Output
3I	۸٥	Throttle Sensor Input
	V	·
3J	X	EGR Input (Cali only)/DRL (Canada only)
3K	XS	Charge relief Valve
3L		Intake Air Thermosensor
3M	V0	Knock Sensor
3N	XS	Air Bypass Valve
30	XS	Double throttle Valve
3P	XS	Relief Valve
4A		Ground
4B		Ground
4C		Ground
4D		Ground
4E		Crank Angle Input
4F	XS	Split Air Bypass
4G		Crank Angle Input
4H		Crank Angle Input
41	XM	MOP Output
4J	XM	MOP Output
4K	XM	MOP Output
4L	XM	MOP Output
4M	XS	Fuel Pressure solenoid Output
4N	XS	Switch Valve Output
40	XS	EGR Solenoid Output
4P	XS	AWS Solenoid Output
4F 4Q	XS	ISC Output
4Q 4R	XS	Turbo Control Valve Sol Output
4S		•
	XS	Charge Central Valve Output
4T	XS	Charge Control Valve Output
4U	VC	WasteGate Valve Output
4V	XS	Pre-Control Valve Output
4W		Front Pri Inj Output
4X		Front Sec Inj Output
4Y		Rear Pri Inj Output
4Z		Rear Sec Inj Output

Clean up Plug 3 & 4 as desired, or just leave un-used plugs empty.

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X-05 Blue Male Connector on Engine Harness

Brown / White + Vref to Pressure Sensor

Brown / Black Gnd to Pressure Sensor (signal ground -- not chassis ground)

Black / Yellow Injector +12V Input. Connect to switched +12V source, along with Igniter Black/White and ECU 1B.

Black Ground

Black / White Solenoid +12V. Connect if solenoids in use. Required for wastegate control with single turbo / nonsequential

White / Blue ECU output for cooling fan. Use with relay for ECU controlled fan.

X-14 White Conector on Engine Harness

Black / Red Water thermo switch on water pump

Use with relay to control cooling fan without ECU control.

Looking at ECU, Pins are as follows:

4 3 2 1 YW...CA OM....CA KI...CA US..CA ZX....DB PN....DB LJ...DB VT...DB

Other Igniter Notes:

Need to make harness from igniter outputs to coil input harness

Make sure to use condensor, mounted on igniter and connected to black / white