

Pinouts for XFI ECU Copyright ©Fuel Air Spark Technologies

ECU Pin	Name	Wire Color	ECU Pin	Name	Wire Color
A1*	Inductive Cam Pickup Return (Ground)	Black	C1	UEGOP+	White (B)
A2*	Inductive Crank Pickup Return (Ground)	Black	C2	UEGOP-	Black (A)
A3	Inductive Cam Positive Input Signal	Red	C3	UEGOS+	Red (C)
A4	Inductive Crank Positive Input Signal	Red	C4	UEGOR+	Gray (E)
A5	Discrete Vehicle Speed Sensor Input Signal	White (B)	C5	UEGOR-	Blue (F)
A6	Discrete Auxiliary Speed Sensor Input Signal	Orange (B)	C6	UEGOH-	Yellow (G)
A7	Discrete Cam Pickup Input Signal	Ylw / Blk (C)	C7	Pulse Width Modulated (PWM) Output #3 (EGR Control)	
A8	Discrete Crank Pickup Input Signal	Brn / Wht (B)	C8	Pulse Width Modulated (PWM) Output #4 (Boost Control)	Brown
A9	Knock Input Signal (ESC)	Black	C9	Controller Area Network (CAN) #1 High Signal	
A10	TFI / EDIS Ignition Output (TFI/SAW)	Blu / Wht (E)	C10	Controller Area Network (CAN) #1 Low Signal	
A11	Points Ignition Output (POINTS)	White	C11	Analog Auxiliary Input Return (Ground)	Black (K)
A12*	Main Power Return (Ground)	Black (10 ga)	C12	Analog Auxiliary Input Signal #1	Blu / Gra (A)
A13*	Distributor Return (Ground)	Blk / Wht (D)	C13	Analog Auxiliary Input Signal #2	Gray (B)
A14	HEI Ignition Output (EST)	Tan / Blk (A)	C14	Analog Auxiliary Input Signal #3	Red (C)
A15	Crank / Run Mode Output (BYPASS)	Grn / Lt Grn (C)	C15	Analog Auxiliary Input Signal #4	Lt Green (D)
A16	Inductive Vehicle Speed Sensor Positive Input Signal	Yellow (C)	C16	Analog Auxiliary Input Signal #5	Ylw / Blk (E)
A17	Inductive Auxiliary Speed Sensor Positive Input Signal	Violet (D)	C17	Analog Auxiliary Input Signal #6	Blue (F)
A18	Pulse Width Modulated (PWM) Output #2		C18	Analog Auxiliary Input Signal #7	Brn / Wht (G)
A19	Pulse Width Modulated (PWM) Output #1		C19	Analog Auxiliary Input Signal #8	White (H)
A20	Clutch Input Signal		C20	Manifold Absolute Pressure (MAP) Sensor Input Signal	Wht / Vio (B)
A21	Flash Programming Enable Input Signal	Blue (A)	C21	Throttle Position Sensor (TPS) Input Signal	Wht / Red (B)
A22	Calibration Select Switch Input #1	Gray (B)	C22	Air Temp Sensor (ATS) Input Signal	Wht / Pnk (A)
A23	Calibration Select Switch Input #0	Yellow (C)	C23	Coolant Temperature Sensor (CTS) Input Signal	White (A)
A24	A/C Idle Increase Input Signal		C24	5 Volt Reference Output	Red (5 volt ref)
A25*	Digital Auxiliary Input Signal #0		C25	Controller Area Network (CAN) #0 High Signal	
A26	Digital Auxiliary Input Signal #1		C26	Controller Area Network (CAN) #0 Low Signal	
A27	Digital Auxiliary Input Signal #2		C27	RS-232 PC Communications Transmit #0	Red (A)
A28	Digital Auxiliary Input Signal #3		C28	RS-232 PC Communications Receive #0	Black (C)
A29	Digital Auxiliary Input Signal #4		C29	RS-232 Communications Return (Ground)	White (B)
A30	Digital Auxiliary Input Signal #5		C30	RS-232 PC Communications Transmit #1	
A31	Digital Auxiliary Input Signal #6		C31	RS-232 PC Communications Receive #1	
A32	Digital Auxiliary Input Signal #7				

B1	Auxiliary Switched Output #1		D1*	Main Power Return (Ground)	Black (10ga)
B2	Auxiliary Switched Output #2		D2	Injector Output A	Black
B3	Auxiliary Switched Output #3		D3	Main Power Return (Ground)	
B4	Auxiliary Switched Output #4		D4	Injector Output B	Brown
B5	Fuel Pump Control Output	Black	D5	Main Power Return (Ground)	
B6	Torque Converter Clutch (TCC) Control Output		D6*	Main Power Return (Ground)	
B7*	Main Power Return (Ground)	Black 10gage	D7	Injector Output C	Yellow
B8*	Digital Inputs Return (Ground)	Black	D8	Main Power Return (Ground)	
B9	Service Engine Soon (SES) Lamp Output	Lt Green (D)	D9	Injector Output D	Green
B10	Fan Control Output	Black	D10	Main Power Return (Ground)	
B11	A/C Enable Output		D11	Injector Output E	Orange
B12	Idle Air Control (IAC) Output A Hi	Red (A)	D12	Main Power Return (Ground)	
B13	Idle Air Control (IAC) Output A Lo	Blue (B)	D13	Injector Output F	Blue
B14	Idle Air Control (IAC) Output B Hi	Ylw (C)	D14	Injector Output G	Gray
B15	Idle Air Control (IAC) Output B Lo	Black (D)	D15	Main Power Return (Ground)	
B16	Power Adder Hold Enable Input	Pink (E)	D16	Injector Output H	Violet
B17*	Switched Ignition Voltage Input	Pink (Sw Ign)			
B18*	Battery Voltage Input	Red (Batt 3 Amp)			
B19	Power Adder Enable Input	Pink (F)			
B20	Power Adder Switched Output #1	Blu / Wht (A)			
B21	Power Adder Switched Output #2	Blu / Ylw (B)			
B22	Power Adder Switched Output #3	Blu / Grn (C)			
B23	Power Adder Switched Output #4	Blu / Orn (D)			
B24*	Analog Inputs Return (Ground)	Black			
B25*	Main Power Return (Ground)	Black			

* Denotes High Current Pin