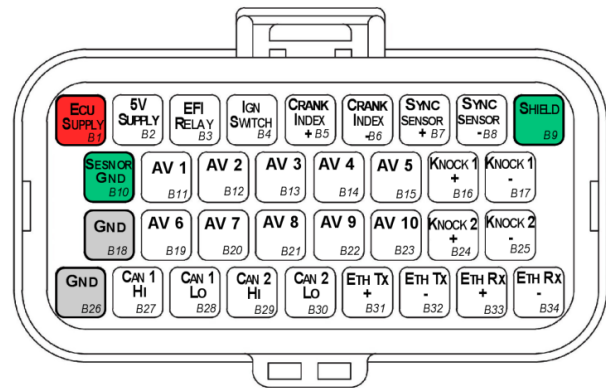
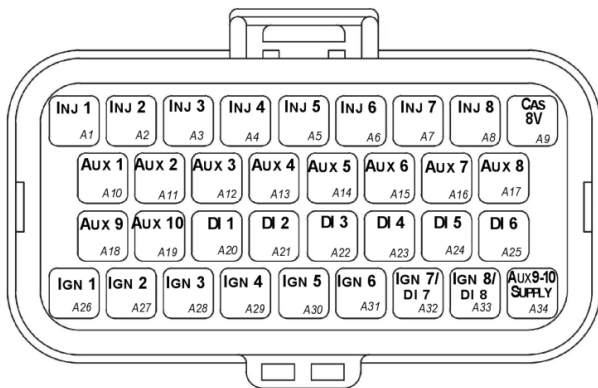




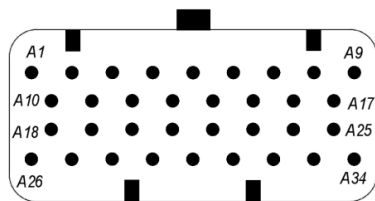
SL8 ECU Pin Assignment Template



April 2015

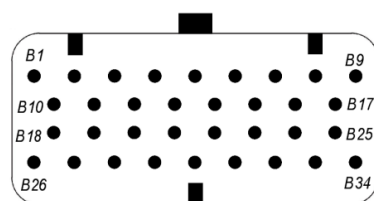


LOOKING INTO ECU



CONNECTOR A

LOOKING INTO ECU



CONNECTOR B

Pin Name	Pin	Function	Specification	Notes
Inj 1	A1	Injector Outputs	Injector 10A Limit, 70V Clamp, Auxiliary - Ground 6A Cont, 10A Limit, 70V	
Inj 2	A2			
Inj 3	A3			
Inj 4	A4			
Inj 5	A5			
Inj 6	A6			
Inj 7	A7			
Inj 8	A8			
Ign 1	A26	Ignition Outputs TTL Logic level	35mA or 70mA selectable current drive. Auxiliary function control, Ground switch. 1A Continuous. 3A Limit. 39V Clamp	
Ign 2	A27			
Ign 3	A28			
Ign 4	A29			
Ign 5	A30			
Ign 6	A31			
Ign 7	A32			
Ign 8	A33			

Aux 1	A10	Auxiliary Outputs	Max Frequency = 15kHz	
Aux 2	A11		Flyback to ECU Supply	
Aux 3	A12		Ground Switch 3A Cont, 8A Limit	
Aux 4	A13		2k2 Pullup to ECU Supply	
Aux 5	A14	Auxiliary Outputs	Max Frequency = 15kHz,	
Aux 6	A15		Ground Switch 2A Cont, 5A Limit	
Aux 7	A16		High Switch 5A Cont, 10A Limit	
Aux 8	A17		2k2 Pullup to ECU Supply	
Aux 9	A18	Auxiliary Outputs	Maximum Frequency = 15kHz	
Aux 10	A19		Half Bridge 5A Cont and 8A limit	
AV1	B11	Analog Inputs	12 Bit Res. 0.0V – 5.0V range	
AV 2	B12			
AV 3	B13			
AV 4	B14			
AV 5	B15			
AV 6	B19			
AV 7	B20	Analog Inputs	12 Bit Res. 0.0V – 5.0V range Switchable 1k pullup to 5V	
AV 8	B21			
AV 9	B22			
AV 10	B23			
DI 1	A20	Digital Inputs	Freq range 0.0Hz up the 30kHz Switchable 4k7 pullup to 10V Analog range 0.0V - 15.0V (10 Bit) Adj Thresholds on AN Inputs Freq Inputs-DI 1-4 Adj thresholds Freq Inputs-DI 5-8 Fixed thresholds	
DI 2	A21			
DI 3	A22			
DI 4	A23			
DI 5	A24			
DI 6	A25			
DI 7	A33			
DI 8	A34			
Knock 1 +	B16	Knk Sens 1 Input +ve		
Knock 1 -	B17	Knk Sens 1 Input –ve		

Knock 2 +	B24	Knk Sens 2 Input +ve		
Knock 2 -	B25	Knk Sens 2 Input -ve		
Crank Index +	B5	Crank Sens Input +ve	Switchable 4k7 pullup	
Crank Index -	B6	Crank Sens Input -ve		
Sync Sensor +	B7	Sync Sensor Input +ve	Switchable 4k7 pullup	
Sync Sensor -	B8	Sync Sensor Input -ve		
CAN 1 H	B27	CAN Communications	Not terminated.	
CAN 1 L	B28	CAN Communications		
CAN 2 H	B29	CAN Communications	Not terminated.	
CAN 2 L	B30	CAN Communications		
ETH Tx +	B31	Ethernet Comms		
ETH Tx -	B32	Ethernet Comms		
ETH Rx +	B33	Ethernet Comms		
ETH Rx -	B34	Ethernet Commus		
ECU Supply	B1	ECU 14V Supply	22V, 10A	
5V Supply	B2	5V sensor supply	250mA current source	
8V CAS	A9	8V sensor supply	400mA current source	
AUX 9-10 Supply	A34	Supply for Auxiliary Channel 9-10 half bridge drivers	22V, 10A. Connect to ECU Supply in non DBW applications. Otherwise connect to DBW relay output	
IGN SWITCH	B4	Ignition switch input	Analog Input range 0.0V - 15.0V	
EFI Relay	B3	EFI Main relay control	22V 250mA, ground switching	
GND	B18	ECU Ground	22V, 10A	
GND	B26	ECU Ground	22V, 10A	
SENSOR GND	B10	Sensor ground out	22V, 1A protected	
SHIELD GND	B9	Shield for Crank/Knock Cables	22V, 1A protected	