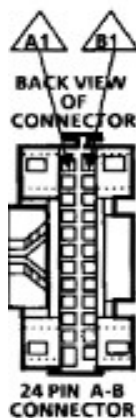


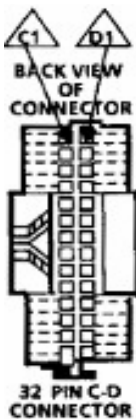
OSE12P Delco 808 N13 Pulsar/LD Astra EFI Loom Wire Colours

Pin	Key On voltage	Engine Run voltage	Circuit	Wire Colour
A1	0.01	B+	Fuel Pump Relay	Yellow/Black
A2	4.9	4.7	ECM To Trip Comp.	
A3			Flex Output 2	
A4			Flex Output 1	
A5	0.15	B+	Check Engine Light	Blue/Red
A6	B+	B+	12 Volt Ignition	Black/Red
A7	B+	B+	TCC (auto) or Flex Output	
A8				
A9	5	5	Diagnostic request	Brown
A10	.0-10	.1-10	VSS Signal Input	Black/Yellow
A11	0	0	MAP/MAT sensor ground	Black
A12	0	0	Engine ground	Black



Pin	Key On voltage	Engine Run voltage	Circuit	Wire Colour
B1	B+	B+	Battery	White/Red
B2				
B3	0	0	Distributor ref ground	White
B4				
B5	0.1	1.3	Distributor ref +	Black
B6				
B7				
B8	0.1	0.1	A/C request	
B9			A/B switch	
B10	0	0	Park/Neutral sw (auto only)	Light Green
B11				
B12			0-5v A/D input	

Pin	Key On voltage	Engine Run voltage	Circuit	Wire Colour
C1	B+	B+	Fan Relay	Pink
C2	0.01	0.02	A/C Relay	Brown/Yellow
C3	C5	C5	IAC Coil B Low	Grey/Yellow
C4	C6	C6	IAC Coil B High	Grey
C5	C3	C3	IAC Coil A High	White/Green
C6	C4	C4	IAC Coil A Low	Red/Green
C7				
C8				
C9				
C10	1.2	1.5	Coolant Temp Sensor	Yellow/Green
C11	4.6	1.2	MAP Sensor	White/Blue
C12	1-2	2-3	MAT Sensor	Red/White
C13	0.9	0.9	TPS Signal	Green/White
C14	5	5	5v ref out	
C15				
C16	B+	B+	Battery	White/Red



Pin	Key On voltage	Engine Run voltage	Circuit	Wire Colour
D1	0	0	Engine Ground	Black
D2	0	0	TPS, Coolant sensor ground	Black
D3				
D4	0.15	1.2	EST Output	Red
D5	0.15	4.5	HEI module Bypass	Pink
D6			Oxygen sensor engine ground	Black
D7			Oxygen sensor input signal	White/Pink
D8			Wideband O2 input	
D9				
D10	0	0	Engine ground	Black
D11				
D12			Flex output 3	
D13				
D14				
D15	B+	B+	Injector drive	White
D16	B+	B+	Injector drive	White