Haltech ESP I/O Report - ELITE 1000
96 TACOMA

Haltech ECU				Tacoma ECU				Note
Analogue Voltage Inputs								
B13		GY/Y	AVI1	Wideband O2 1 Sensor	N/A		O	AV out	From Innovate
A16		O/B	AVI2	A/C Request	E5-10		L/Y	AC1	Neet to use a SPDT relay
A17		O/R	AVI3	Brake Pedal Switch	E5-20		G/Y	BK	
A2		O/Y	AVI4						
B20		O/G	AVI5						
B12		GY/O	AVI6						
B3		GY	AVI7	Air Temperature Sensor	E7-7		Y/G	THA	
B4		V	AVI8	Coolant Temperature Sensor	E7-4		G/R	THW	
A15		Y	AVI9						
A14		W	AVI10	Throttle Position Sensor	E7-11		Y	VTA	
Digital Pulsed Outputs								
A18		V/B	DPO1	Check Engine Light	E5-5		V	W	
A18		V/BR	DPO2	A/C Clutch	E5-8		L/B	ACT	Need to use SPDT relay
A23		V/R	DPO3						
B19		V/O	DPO4						
A24		B/Y	DPO5	Fuel Pump	E5-14		G/Y	FC	Use to act. Circuit opening relay
A25		B/R	DPO6	ECR output	N/A				Not used will use Fuel Pump out
A3		Y/B	IGN1	Ignition Output 1	E8-20		B/L	IGT	IGF Not used
A4		Y/R	IGN2						
A5		Y/O	IGN3						
A6		Y/G	IGN4						
A19		L	INJ1	Stage 1 Injection Output	E8-12		W/R	#10	Injector 1 & 3
A20		L/B	INJ2	Stage 2 Injection Output	E8-11		W	#20	Injector 2 & 4
A21		L/BR	INJ3						
A22		L/R	INJ4						
A31		G	STEP1 P1	Idle Control - Main	E8-9		B/R	RSO	Slave? Main?
A32		G/B	STEP1 P2	Idle Control - Slave	E8-10		B/R	RSC	Slave? Main?
A33		G/BR	STEP1 P3						
A34		G/R	STEP1 P4						
Knock Inputs								
B21		GY/G	KNOCK1	KNOCK1 Knock Sensor 1	E7-13		B	KNK	
Pressure Inputs								
			OBPS1	Manifold Pressure Sensor					
Sync Pulsed inputs								
B8		GY	SPI1	Vehicle Speed Drive Train Sensor	E5-9		G/O	SP1	4 Pluses per rotation
B9		GY/B	SPI2						
B10		GY/BR	SPI3						

B7	GY/R	SPI4					

Stepper Outputs

A31	G						
A32	G/B						
A33	G/BR						
A34	G/R						

System References

Pin	Color	Signal	Description		Pin	Color	Name	Signal	Description
A9	O	+5VDC	5V Sensors		E7-1	G/Y	VCC		For TPS and anytihng else
A12	O/W	+8VDC	8V Sensors						
A13	P	+12V IGN IN	Ignithion Switch		E5-12	W/R	+B		
B11	R/W	+13.8V ECU PWR	10A Fused		E5-12	W/R	+B		Fuse at 10A
A26	R/L	+13.8V INJ PWR	20A Fused		E5-12	W/R	+B		Already fused at 15A
A10	B	BATTERY GND	Battery (-ve)		E8-13	BR	E01/E02		E8-13/E8-26
A11	B	BATTERY GND	Battery (-ve)		E8-14	BR	E1/EO3		E8-14/E8-25
B23	W	CAN HIGH							
B24	L	CAN LOW							
B2	Y	HOME (+VE)	Home System +		E8-5	Y	G+		36-2 rising edge
B6	G	HOME (-VE)	Home System -		E8-18	L	G-		
B14	B/W	SIGNAL GND	0v Sensors		E7-9	BR/B	E2		Sensor ground
B15	B/W	SIGNAL GND	0v Sensors						
B16	B/W	SIGNAL GND	0v Sensors						
B1	Y	TRIGGER (+VE)	Trigger System (+)		E8-17	G	NE-		Single tooth rising edge
B5	G	TRIGGER (-VE)	Trigger System (-)		E8-4	R	NE-		