



<b>Delta 600 - ECU Pinout</b>	
Connector A:	AMPSeal 776164-1
Connector B:	AMPSeal 776163-2
Terminal Pins	770520-3
CAN Connector:	Female DB9 or DTM

<b>Connector A</b>			
<b>Pin</b>	<b>Name</b>	<b>Description</b>	<b>Notes</b>
1	Battery	Direct Battery Supply (15A fuse)	Direct Battery Power 6-15V
2	Ignition	Ignition Switched Supply (10A fuse)	Ignition Key Input
3	Power Ground 1	Power Ground	Power Ground 1
4	Low Side Output 1	3A Open Collector	Injector 1 Output
5	Low Side Output 2	3A Open Collector	Injector 2 Output
6	Low Side Output 3	3A Open Collector	Injector 3 Output
7	Low Side Output 4	3A Open Collector	Injector 4 Output
8	Crank/Cam Ground	Digital Ground	Crank/Cam Sensor Ground
9	Crank Input	VR/Hall - Software Selectable	Crank Sensor Input
10	Cam Input 1	VR/Hall - Software Selectable	Cam Sensor 1 Input
11	NTC Input 1	3.16K pull-up to VREF	Coolant Temperature Input
12	NTC Input 2	3.16K pull-up to VREF	Air Temperature Input
13	Ignition 1	TTL/Power Ignition Output	Software Configurable Output
14	Ignition 2	TTL/Power Ignition Output	Software Configurable Output
15	Ignition 3	TTL/Power Ignition Output	Software Configurable Output
16	Ignition 4	TTL/Power Ignition Output	Software Configurable Output
17	Analog Input 1	47k pull-up to VREF	Linear 1 Input
18	Cam Input 2	VR/Hall - Software Selectable	Cam Sensor 2 Input
19	Analog Ground 1	Analog Ground	Analog Ground
20	Lambda 1 Input	Weak bias to 450mV	Lambda Sensor 2 Input
21	CAN 1H	120 Ohm Terminated	To PC comms DB9
22	CAN 1L	120 Ohm Terminated	To PC comms DB9
23	Low Side Output 5	3A Open Collector	Auxiliary 1 / Injector 5 Output
24	Low Side Output 7	3A Open Collector w/ recirc diode	Main Relay/PWM1
25	Low Side Output 8	3A Open Collector w/ recirc diode	Fuel Pump Relay/PWM2
26	Low Side Output 9	3A Open Collector w/ recirc diode	PWM3 Output
27	Low Side Output 10	3A Open Collector w/ recirc diode	PWM4 Output
28	Low Side Output 11	3A Open Collector with pull-up to VB	Tachometer Output
29	Low Side Output 6	3A Open Collector	Auxiliary 2 / Injector 6 Output
30	Analog Ground 2	Analog Ground	Analog Sensors Ground
31	NTC Input 3	3.16K pull-up to VREF	NTC1 Input
32	Analog Input 2	47k pull-up to VREF	Throttle Position Sensor Input
33	Analog Input 3	47k pull-up to VREF	Manifold Pressure Sensor Input
34	VREF	500mA 5V supply to sensors	5V Reference Sensor Supply
35	Power Ground 2	Power Ground	Power Ground 2

Connector B			
Pin	Name	Description	Notes
B1			
B2			
B3			
B4			
B5	Bipolar Output 1	3A Hi Side/Lo Side Drive	PWM5 Output
B6	Bipolar Output 2	3A Hi Side/Lo Side Drive	PWM6 Output
B7	Bipolar Output 3	3A Hi Side/Lo Side Drive	PWM7 Output
B8	Bipolar Output 4	3A Hi Side/Lo Side Drive	PWM8 Output
B9	Low Side Output 12	3A Open Collector	Injector 7 Output
B10	Low Side Output 13	3A Open Collector	Injector 8 Output
B11	Cam Input 3	VR/Hall - Software Selectable	Cam Sensor 3 Input
B12	Cam Input 4	VR/Hall - Software Selectable	Cam Sensor 4 Input
B13	Ignition 5	TTL/Power	Software Configurable Output
B14	Ignition 6	TTL/Power	Software Configurable Output
B15			
B16			
B17	Hall Input 1	Hall Effect Input	Wheel Speed LR
B18	Hall Input 2	Hall Effect Input	Wheel Speed RR
B19	Hall Input 3	Hall Effect Input	Wheel Speed LF
B20	Hall Input 4	Hall Effect Input	Wheel Speed RF
B21	Knock 1 +	Knock 1 Signal Input	
B22	Knock 2 +	Knock 2 Signal Input	
B23	Knock Ground	Digital Ground	
B24	Lambda 2 Input	Weak bias to 450mV	Lambda Sensor 2 Input
B25			
B26			
B27			
B28	NTC Input 4	3.16k pull-up to VREF	NTC2 Input
B29	NTC Input 5	3.16k pull-up to VREF	NTC3 Input
B30	Analog Input 5	47k pull-up to VREF	Linear 5 Input
B31	Analog Input 6	47k pull-up to VREF	Linear 6 Input
B32	Analog Input 7	47k pull-up to VREF	Linear 7 Input
B33	Analog Input 8	47k pull-up to VREF	Linear 8 Input
B34	CAN 2L	CAN 2 Low	
B35	CAN 2H	CAN 2 High	120 Ohm Terminated

PC Comms DB9 Female Connector	
Pin	Name
1	Ground
6	CAN High
7	CAN Low
8	Battery Voltage
DTM Connector	
1	Battery Voltage
2	Ground
3	CAN High
4	CAN Low