



Specialist Components

TYPHOON 2

Engine Management System

•www.specialist-components.co.uk•

Pin	Name	Description	Notes
1	VBATT	Battery Voltage Direct	Direct Battery Power 6-15V
2	VKEY	Ignition Key Input	Switched Ignition Feed
3	GROUND	Power Ground	
4	INJ1	Injector 1	5A Protected Output
5	INJ2	Injector 2	5A Protected Output
6	INJ3	Injector 3	5A Protected Output
7	INJ4	Injector 4	5A Protected Output
8	DIG_GND	Crank/Cam Sensor Ground	Digital Ground
9	CRANK	Crank Sensor	Hall effect or Variable Reluctance input
10	CAM1	Inlet Camshaft Sensor Bank 1	Hall effect or Variable Reluctance input
11	TCOOL	Coolant Temp Input	0-5V Analog Input
12	TAIR	Air Temp Input	0-5V Analog Input
13	IGN1	Power or TTL Ignition Coil 1	Hardware selected output type
14	IGN2	Power or TTL Ignition Coil 2	Hardware selected output type
15	IGN3	Power or TTL Ignition Coil 3	Hardware selected output type
16	IGN4	Power or TTL Ignition Coil 4	Hardware selected output type
17	LINEAR1	Analogue Input 1	User Configurable 0-5V Analog Input
18	CAM2	Inlet Camshaft Sensor Bank 2	Hall effect or Variable Reluctance input
19	NTC_GND1	Temp Sensors Ground	Analog Ground
20	LAMBDA1	Lambda Sensor Bank 1	0-5V Analog Input
21	CANH	CAN High	To PC comms DB9
22	CANL	CAN Low	To PC comms DB9
23	PROG	Program Enable	To PC comms DB9
24	RELAY1	Relay Output	User Programmable Relay Function
25	RELAY2	Fuel Pump Relay Output	Relay Output (Fuel Pump & O2 Heater Relay)
26	PWM1	Pulse Width Modulated Output 1	User Configurable Output Function, 5A Protected Output
27	PWM2	Pulse Width Modulated Output 2	User Configurable Output Function, 5A Protected Output
28	AUX1	Auxiliary Output 1	5A Protected Output
29	AUX2	Auxiliary Output 2	5A Protected Output
30	LINEAR_GND1	TPS & MAP Ground	Analog Ground
31	NTC_1	NTC Sensor Input 1	Temperature Sensor Input
32	TPS1	Throttle Position Sensor Input 1	0-5V Analog Input
33	MAP	Manifold Pressure Sensor Input	0-5V Analog Input
34	VREF1	TPS & MAP Reference Voltage	5V Reference
35	GROUND	Power Ground	

AMPSeal Plug Assembly 776164-1, Terminal Pins 770520-3 (available from www.mouser.com)

PC Comms DB9 Female Connector

Pin	Name
1	Ground
3	Program Enable
6	CAN High
7	CAN Low
8	Battery Voltage