

Pin	Name	Description	Notes
1	VBATT	Battery Voltage Direct	Direct Battery Power 6-15V
2	VKEY	Ignition Key Input	
3	GROUND	Power Ground	
4	INJ1	Injector 1	
5	INJ2	Injector 2	
6	INJ3	Injector 3	
7	INJ4	Injector 4	
8	DIG_GND	Crank/Cam Sensor Ground	Digital Ground
9	CRANK	Crank Sensor	Variable Reluctance or Hall Effect Input
10	CAM1	Camshaft Sensor Input 1	Variable Reluctance or Hall Effect Input
11	TCOOL	Coolant Temp Input	0-5V Analog Input
12	TAIR	Air Temp Input	0-5V Analog Input
13	IGN1	TTL/Power Ignition Coil 1	Hardware selected output type
14	IGN2	TTL/Power Ignition Coil 2	Hardware selected output type
15	IGN3	TTL/Power Ignition Coil 3	Hardware selected output type
16	IGN4	TTL/Power Ignition Coil 4	Hardware selected output type
17	LINEAR1	Analog Input	0-5V Analog Input
18	CAM2	Wheel speed input	Hall effect input
19	NTC_GND1	Temp Sensors Ground	Analog Ground
20	LAMBDA1	Lambda Sensor 1	0-5V Analog Input
21	CANH	CAN High	
22	CANL	CAN Low	
23	W_EN	Write Enable	
24	FANS_RELAY	Cooling Fans Relay Output	Relay Output
25	FPUMP_RELAY	Fuel Pump Relay Output	Relay Output
26	PWM1	Idle Control Valve Output	High Current Output
27	PWM2	Boost Control Valve Output	High Current Output
28	TPU_OUT1	Tacho Output	High Current Output
29	TPU_OUT2	Variable Cam Timing Control Output	High Current Output
30	LINEAR_GND1	TPS & MAP Ground	Analog Ground
31	NTC_1	NTC Sensor Input	0-5V Analog Input
32	TPS1	Throttle Position Sensor Input	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 Part number 1-776163-1 (Plug Assembly 776164-1, Terminal Pins 770520-3)