

# POWER JUNCTION BOX (PJB)



Solid state 7 channel PJB directly compatible with NASCAR Sprint Cup electrical systems.

- 2 channels on with main power
- 3 channels on with ignition switch
- 2 channels on with ECU fuel pump control

## Electrical

Input Voltage 7 – 18v DC.

## Inputs

- Battery +12v – General and safety sensor. +12v in = outputs on.
- Ignition +12v – Injector, ignition and TAG 400N. +12v in = outputs on.
- Fuel Pump +12v – Pump 1 and Pump 2. +12v in = outputs on.

## Outputs

- Two 5 Amp channels (general and safety sensor supply).
- Five 15 Amp channels (Injection, Ignition, TAG 400N, Pump 1, Pump 2).

## Enclosure

Material: Windform® LX

Maximum Operation Temp: 150°C / 302°F

## Environmental

Module weight – 170g / 6oz

Operating temperature: -40°C to +125°C / -40°F to 257°F

Storage Temperature: -50°C to +150°C / -58°F to 302° F

Maximum humidity: 100%

IP Rating: 55

## Operation Overview

All 7 circuits are constantly monitored for current draw.

- If no input is requested or no power is applied the LED's remain unlit.
- If the output is on and current draw is within limits the channel status LED is lit green.
- If the output goes above the limit or detects a short circuit then the LED lights red and the output switches off.

Pushing the blue switch or cycling power to the box will reset the output – if the fault has cleared the channel will reset. If the fault persists the output will remain off.

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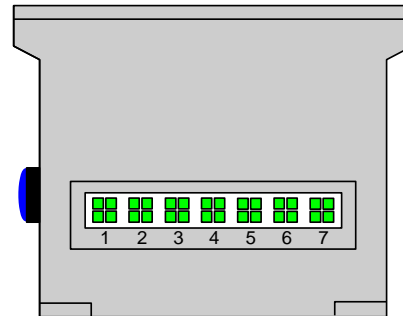
## Reset Mode

Channels can be reset by cycling the power to the PJB or by pressing the blue reset switch.

## Connection Guide

Mating connector for the DCE PJB is AS620-16SN.

Trip Value	Pin	Function
	A	Ignition switch control +12v on / 0v off
	B	Fuel pump switch control +12v on / 0v off
15 Amp	C	Fuel Pump 1 +12v
15 Amp	D	Fuel Pump 2 +12v
15 Amp	E	Injection +12v
15 Amp	F	Ignition +12v
5 Amp	G	Safety Sensor +12v
	H	Ground
5 Amp	J	General Sensor +12v
	K	Battery +12v
	L	Battery +12v
	M	Battery +12v
15 Amp	N	Ignition +12v
	P	Not Used
	R	Not Used
	S	Battery +12v



## LED KEY

1. FUEL PUMP 2
2. FUEL PUMP 1
3. FUEL INJECTORS
4. ECU, FAN, LOGGER
5. IGNITION COILS
6. TRIAX, PEDAL PRESS, BRAKE PRESS
7. GENERAL SENSORS