

Installation Instructions: CA18 COIL KIT

Warning: Due to the age of the vehicle this ignition kit is aimed at, the factory wiring loom may run warm. This is an indicator of unwanted high resistance and is usually caused by wire corrosion and heat cycle degradation over time. High resistance along ignition wires is not ideal for this high current ignition upgrade. PRP recommends new wiring be used with their ignition kits to ensure no damage is caused to both the motor and their products. PRP takes no responsibility for any damage caused by incorrect use of their products. If unsure about the correct use, please consult a qualified auto electrician for installation.

First start by preparing your coils, follow the stages and photos below.



Installation Instructions: CA18 COIL KIT

		
<p>Depending on the coil provided, the spring will be too long, trim to suit</p>	<p>Trimmed conductive sping, you may need to trim both ends up to 10mm on spark plug end, and 10mm + on coil end, aim for a total spring length of 50mm</p>	<p>Flatten the end to ensure more contact surface area.</p>

Installation Instructions: CA18 COIL KIT

		
<p>Install rubbers onto white stalk,</p>	<p>Ensure the rubber lip has not pinched</p>	<p>Drop the spring into the stalk assembly</p>
		
<p>Drop the resistor into the coil head</p>	<p>Carefully put it together ensuring the spring sits in the resistor well against the resistor, a little dielectric paste on the inner and outer o-ring is advised.</p>	

Installation Instructions: CA18 COIL KIT



You may now insert the coils into the bracket first using the M6 bolts and washers provided, or bolt the bracket down into the head first with the smaller M5 screws provided (no washers).

The coil will seat itself with some downward pressure, the modified coil (with no mounting lug) lives in cylinder number 1, the bracket was made to allow the fitment of the auxiliary air control valve that you may or may not have in place, please install stainless clip to hold this coil in place (contact PRP if your kit did not come with one)

All PRP Kits fit undercover.

Then plug in your plug and play batch fire harness, **but before you start it you may have an igniter to deal with! These are smart coils with in built igniters, do not turn on your ignition before following the instructions below!**,



Installation Instructions: CA18 COIL KIT

Platinum Racing Products CA18DET 22020-85M10 Ignitor Delete Instructions:

IMPORTANT: Failure to perform the following task prior to kit installation will cause damage to the supplied coils. If unsure of required task, PRP strongly advises a qualified auto electrician be consulted as incorrect installation will result in damage to both kit & ignition. PRP does not take responsibility for any damage to coils caused by incorrectly removing the ignitor.

- Remove external OEM Ignitor and bridge appropriate wires to the remaining engine harness connectors. See wiring diagram below.
- Alternatively PRP option a patch harness that can be purchased with this kit for a simple plug and play equivalent.

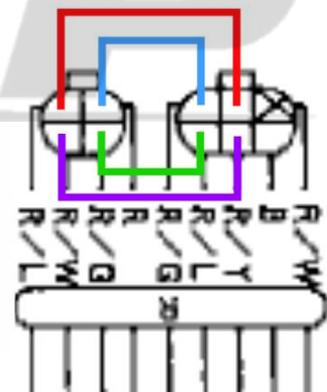
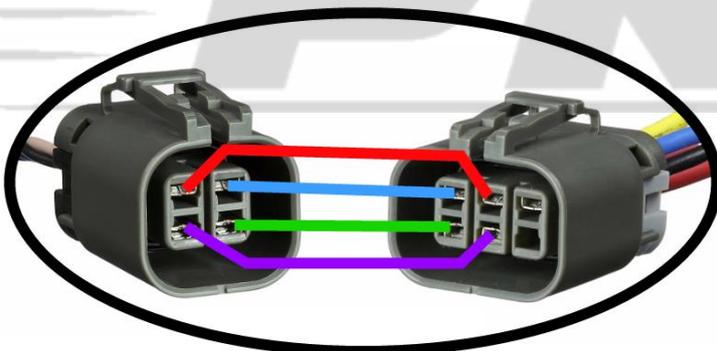
Note: A minimum wire gauge of 18AWG wire is to be used if adding additional wire to bypass the factory ignitor.

1. Remove OEM Ignitor:



POWER
TRANSISTOR
UNIT

2. Bridge the following wires to remaining engine harness connectors:



Installation Instructions: CA18 COIL KIT

Note: *Recommended dwell can be much higher than your average coil, a good starting point is 2-3 milliseconds base then adjust accordingly by referencing the chart below as a maximum saturation guide only*

Note: This table is to be used as a max saturation guide, it shows current saturation of the primary coil. Dwell times should not exceed an amount of time that will cause the coil to fully saturate. Over saturating the coil will cause premature failure of the coil as well as irregular operation of the coil. ie Heat.

Nissan VR38	Volts/Dwell	1.0ms	2.0ms	3.0ms	3.5ms	4.0ms	4.5ms	5.0ms	5.5ms	6.0ms	6.5ms	7.0ms	8.0ms	9.0ms	10ms	12ms
	8v	2A	3A	4A	4.2A	4.4A	4.5A	4.8A	5A	5.5A	5.75A	5.8A	6A	6.2A	6.5A	6.6A
	10v	3A	4A	5A	5.5A	5.75A	6A	6.25A	6.5A	7A	7.5A	7.75A	8.25A	9A		
	12v	3A	4.5A	5.75A	6.25A	7A	8A	8.75A	9.5A	10A	10.5A					
	14v	3.5A	5A	7A	8A	10A	11A	12A	12.25A							
	16v	3.75A	5.75A	8.5A	10.75A	13A										