

HobbyDepot Inline Zenoah Connector Kit

Kit available from

www.hobbydepot.com.au

Directions Prepared by

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Needed Hardware

3 - 5x0.8 socket cap bolts 35mm long

4 - 5x0.8 socket cap bolts 25mm long

1 - 6x1.0 socket cap bolt 16mm long

1 - 6mm star washer

1 - 8x1.0 hex nut. (for flywheel)

2 - drive pins, 6x1.0 thread with a 8.8mm pin. (these are not meant to be a tight fit into the drive hub which has a 9mm hole)

Alternatively use two additional 6x1.0 socket cap bolts 16mm long and reduce the diameter of the heads to 8.8mm with a drill and file.

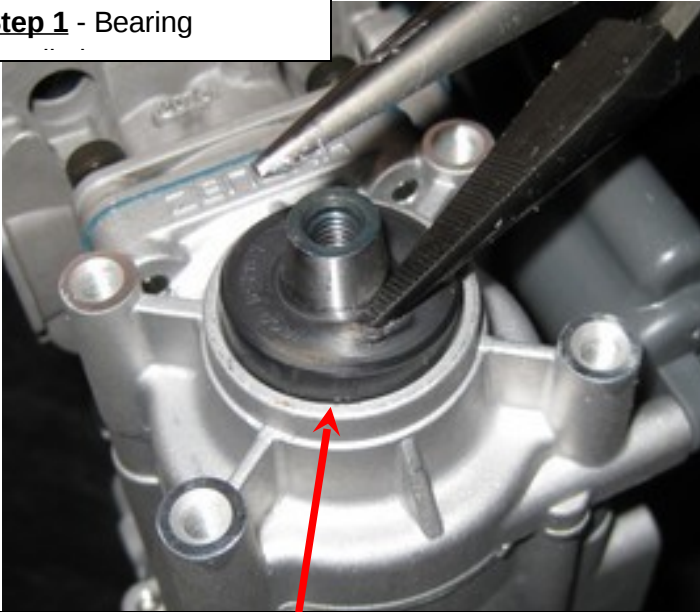
2 - Double sealed bearings 6001 2RS

The sparing use of loctite to secure all bolts and nuts is recommended.

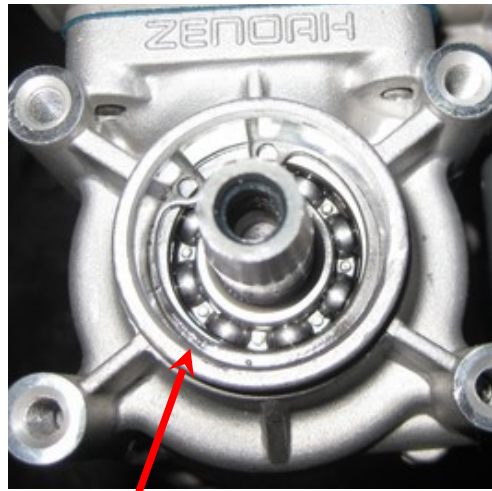
Before proceeding to assembly instructions it is recommended that you review all directions.



Step 1 - Bearing



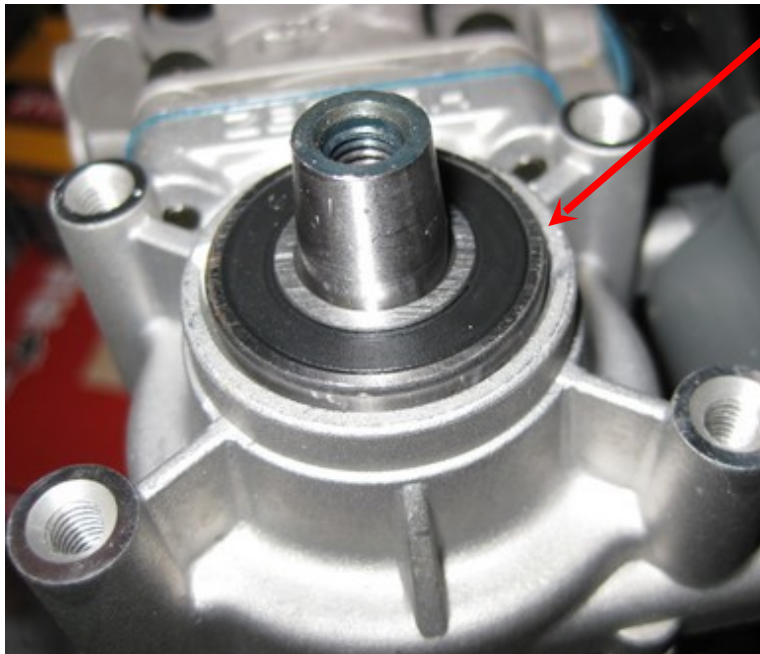
Using thin flat blade screw driver or needle nose pliers lever out seal – you will not be reusing seal.



Ensure no debris has entered bearing after seal removal.



Smear a thin film of silicon around the outside surface of the bearing. Position over output shaft. Tap gently on the outer bearing race with a soft faced hammer. Tap on alternate sides of the race.

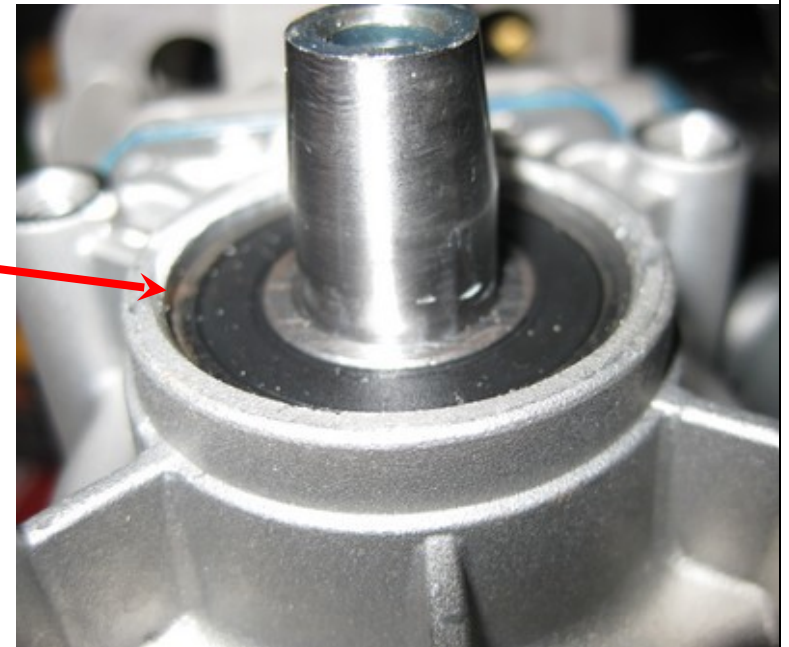


Continue driving in bearing until level with case.

Then use a round punch to drive bearing completely into case.

Bearing is in !!!!

Please note that motors shown in remainder of instruction have not had this procedure done



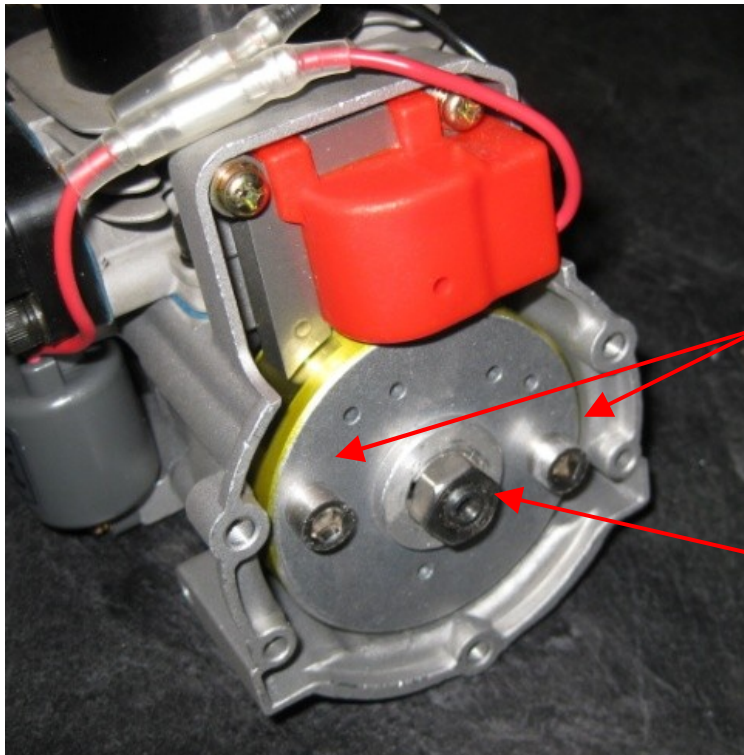
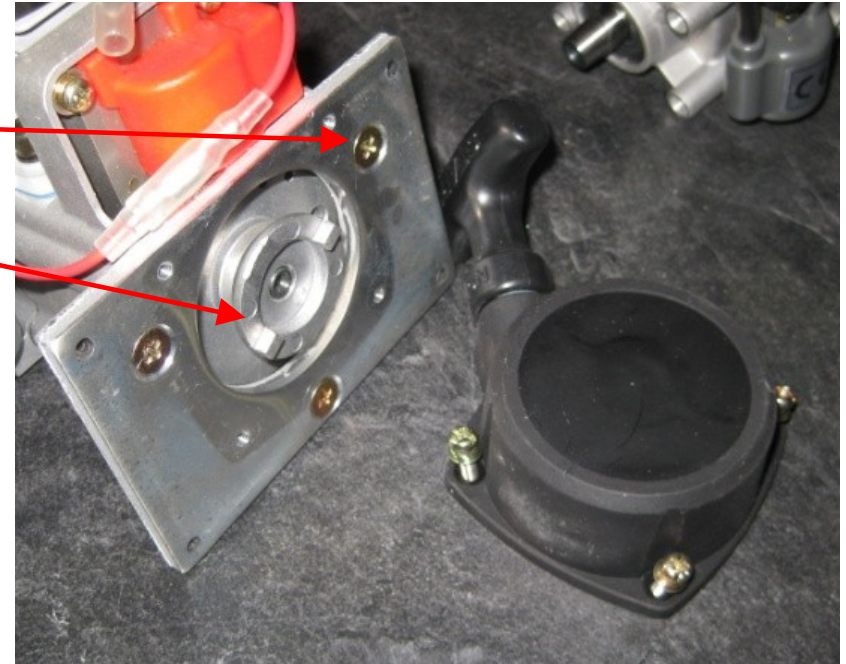
Step 2

From one motor - Remove 4 screws for pull starter and 3 screws for backing plate. Use care not to strip the heads on the backing plate screws as they can be very tight - an impact driver can be valuable if screw proves stubborn.

Remove starter dog from the flywheel. This can be done with a few blows of a small hammer against the teeth in a counter clockwise direction.

You will not need the back plate, pull starter or starter dog in the reassembly of the motor.

This motor will be referred to as the rear motor.



Step 3

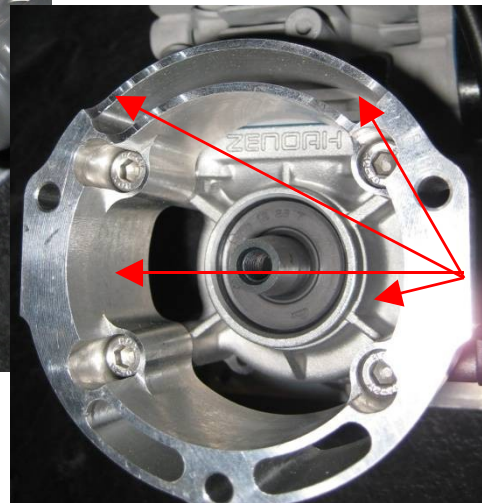
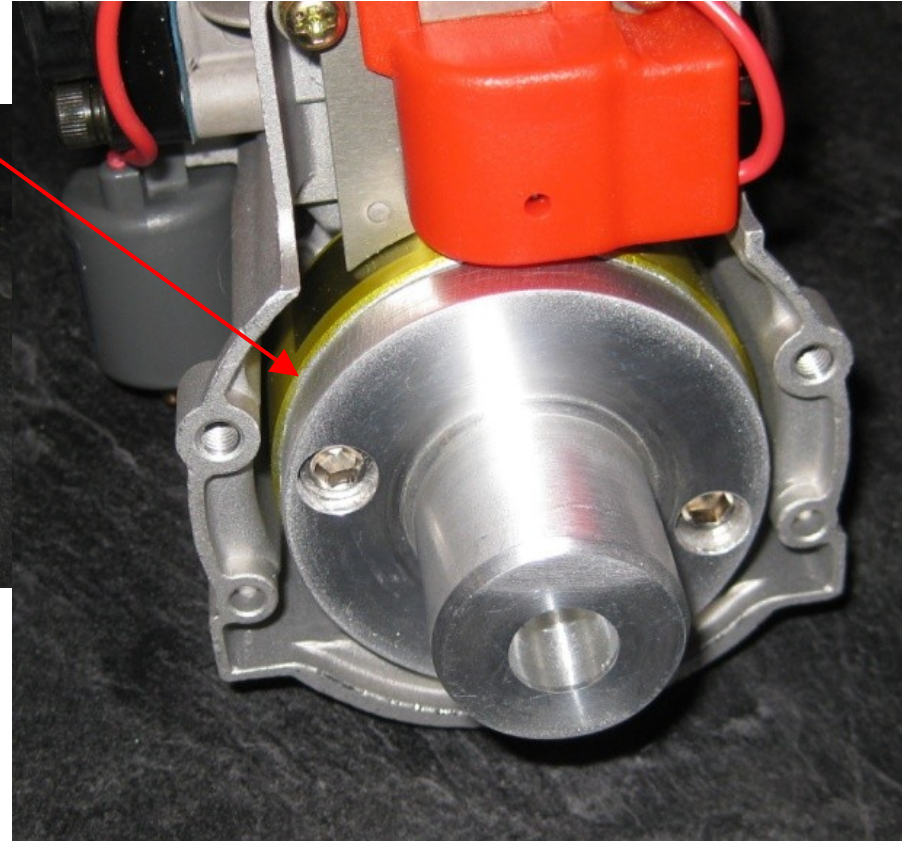
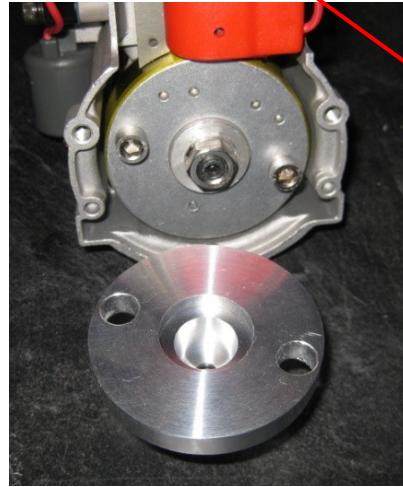
Install pins into flywheel and secure. 6x1.0 thread with a 8.8mm pin. (these pins are not meant to be a tight fit into the drive hub which has a 9mm hole)
Alternatively use two additional 6x1.0 socket cap bolts 16mm long and reduce the diameter of the heads to 8.8mm with a drill and file

Also

Install hex nut on flywheel and secure. 8x1.0 hex nut

Step 4

Test fit the rotor to ensure it fits the motor and can seat flush against the flywheel.



Step 5

Install connector to front motor (motor with pull starter still connected) with (4) 5x0.8 socket cap bolts 25mm long.

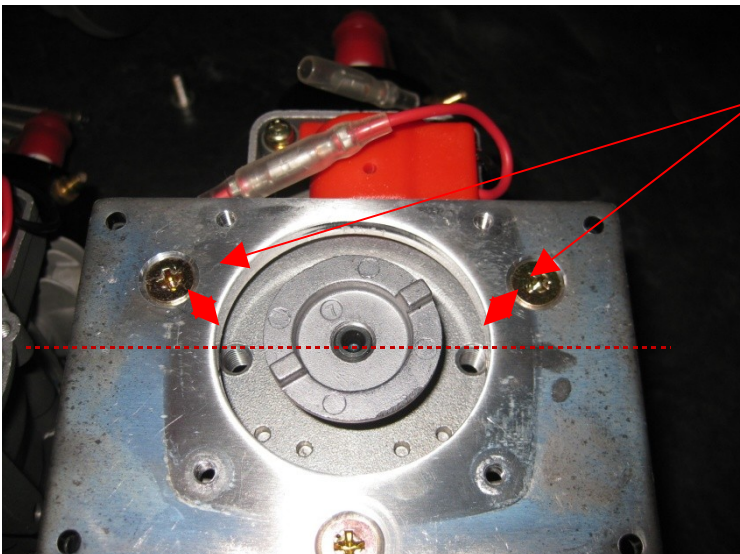
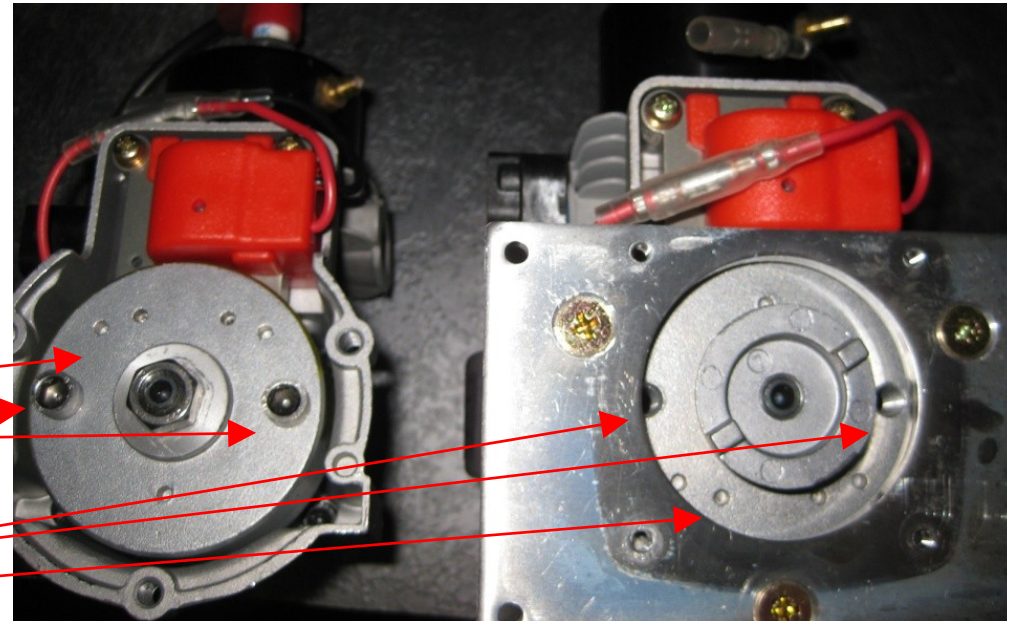
Step 6

Timing – there are many approaches to timing inline motors. Consensus is that the two motors need to be 180 degrees apart. Many will recommend setting one motor at Top Dead Center (TDC) and the second at Bottom Dead Center (BDC).

My approach is simply to set the two motors 180 degrees apart.

Set the rear motor with the casting holes at the top with the 6mm holes also level.

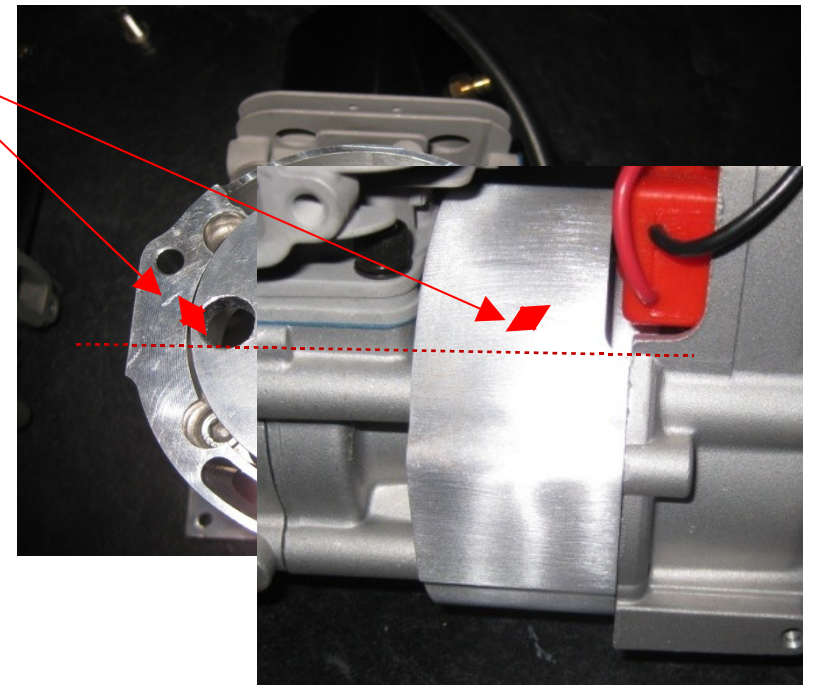
Remove pull starter from *forward* motor and set the 6mm holes to be level with casting holes to the bottom.



Focusing on the rear motor, ensure the holes are level and equidistant to the holes on the backing plate.

Set the rotor to be horizontal and secure with 6x1.0 socket cap bolt 16mm long and star washer. Once secured – double check to ensure rotor and flywheel holes remain horizontal to one another.

Reinstall starter once complete.



Step 7

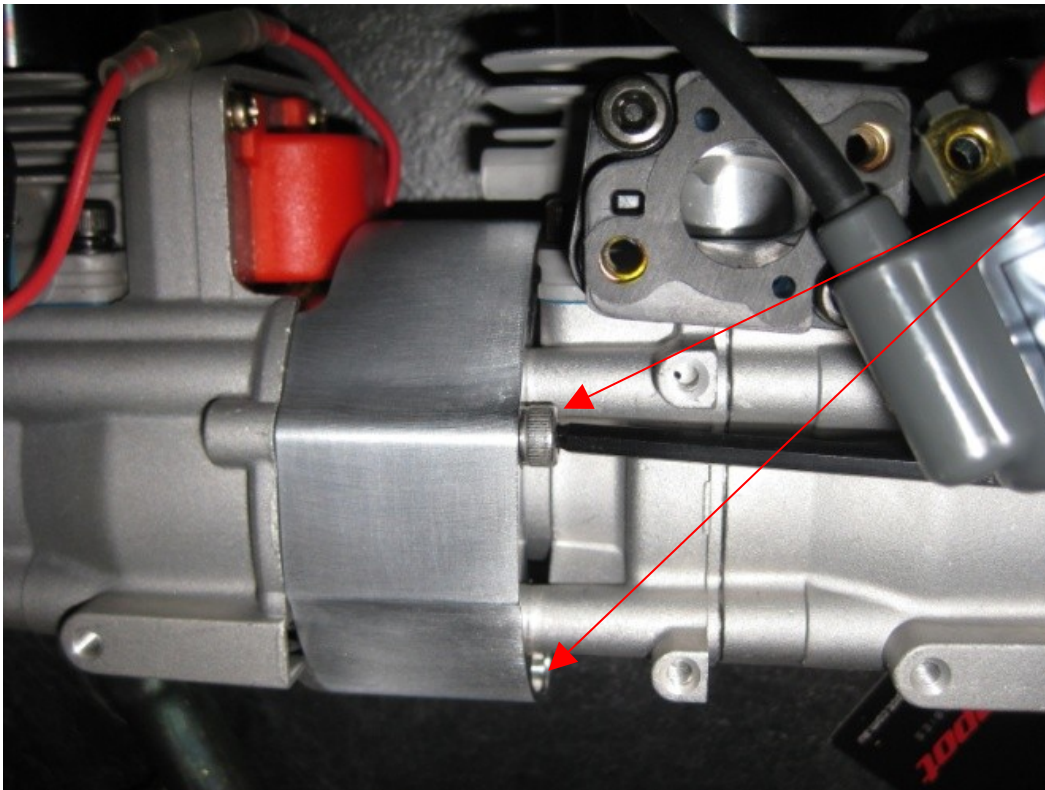
Test fit the two motors together to ensure an easy fit. There should be no obstruction or resistance once pins engage the holes in the rotor.

Step 8

Joining the two motors.

Remove the coil from the side of the forward motor (this will allow access to the side coupler screw).

Apply a thick film (Approximately 2mm thick) of silicon sealant over the face of the rotor.

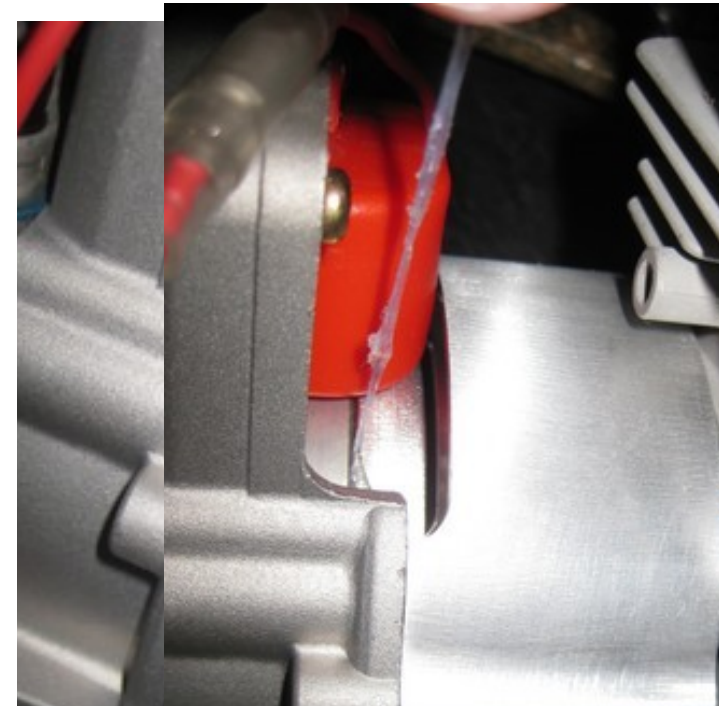


Also apply silicon around the pins on the flywheel.
Push the motors together (you should feel a little resistance for the last 1/2mm or so as the silicon fills the void between the two surfaces).
Secure with the three 5x0.8 socket cap bolts 35mm long

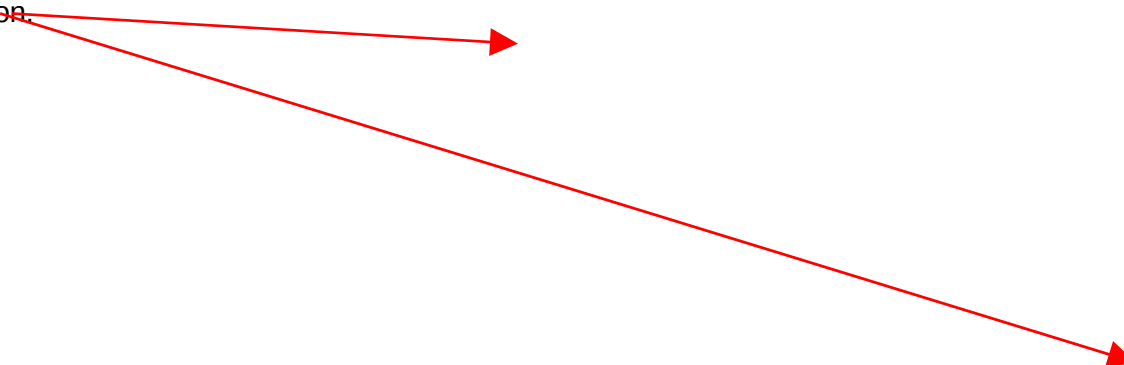
Refit the coil.

Step 9
Allow silicon to fully cure –

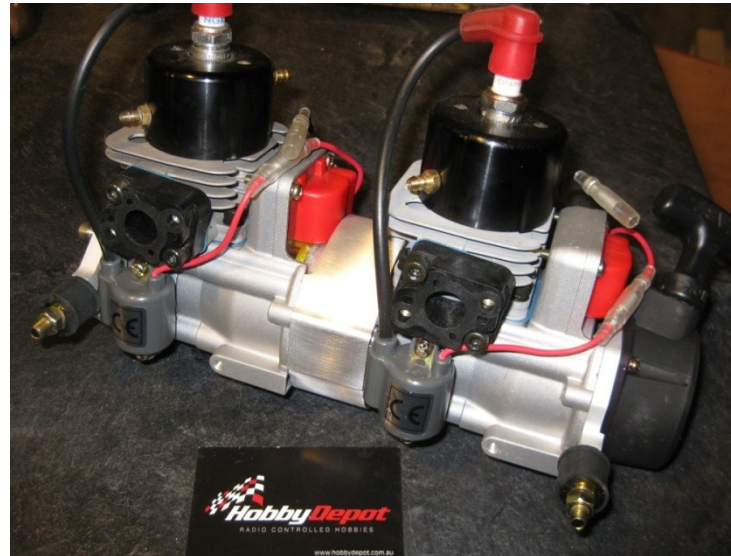
Up to 48 hours (see manufacturer's directions).
Using a chisel or pair of needle nose pliers.



Reach between motors and remove excess silicon that was forced from between motors.
Ensure you remove all excess silicon.



**Your motors together and
ready to accessorize !!!**



This motor is destined for my 92" HPR Geico



<http://imageevent.com/justaddwata/myboats/geicocat>
<http://imageevent.com/justaddwata/lirace>

