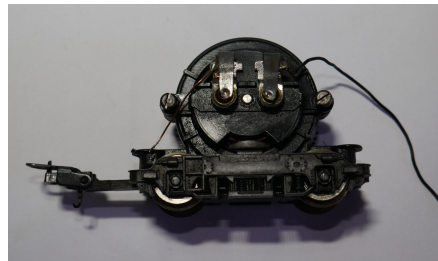


Lima Ringfield Motor Upgrade Kit

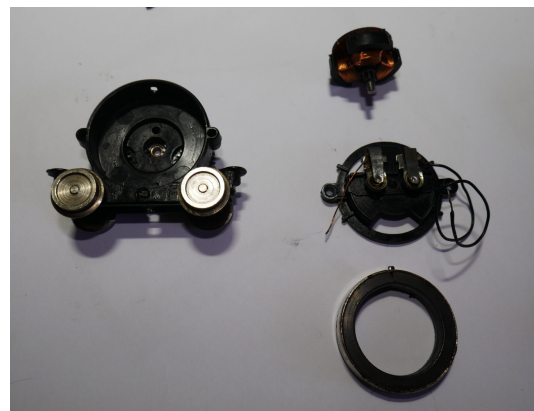


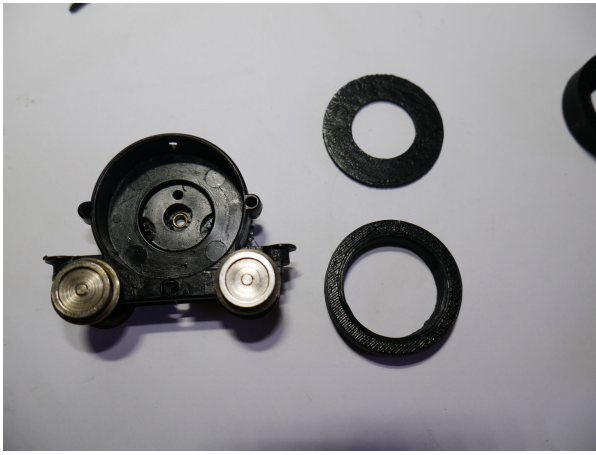
First step is to get the motorised bogie set off the loco. This will be where our focus of work is.



There are two small screws either side of the brush holder, once these are removed the brush holder can be removed and placed to one side, this will no longer be needed, but keep the screws safe as these will be reused.

The rotor and magnet ring can now also be removed and placed to one side as these will also not be needed again.





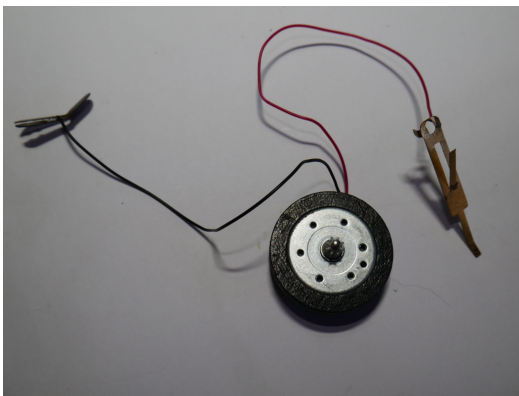
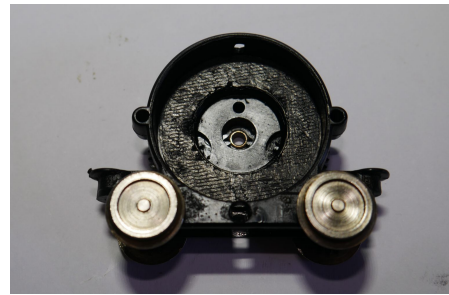
Now we come to fitting the new parts supplied in the kit.

We have an option here, the flat plastic ring (much like a large washer) is used as a spacer to hold the new white gear away from the original bogie casing.

However in some cases where the body is a tight fit it may be necessary to cut / file the new white gear down and not fit the spacer. Most loco bodies do not need this, but the option is there, so a dry run fit to ensure there is no obstruction with the body is a good idea at this point.

Should you need to cut the gear down, you will need to remove 1.8 to 2 mm of material from the new white gear. Two are provided in the kit incase of accidents.

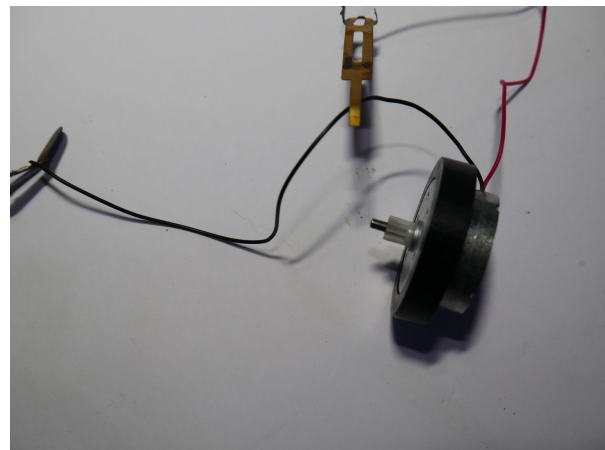
Fit spacer (if using) as pictured.

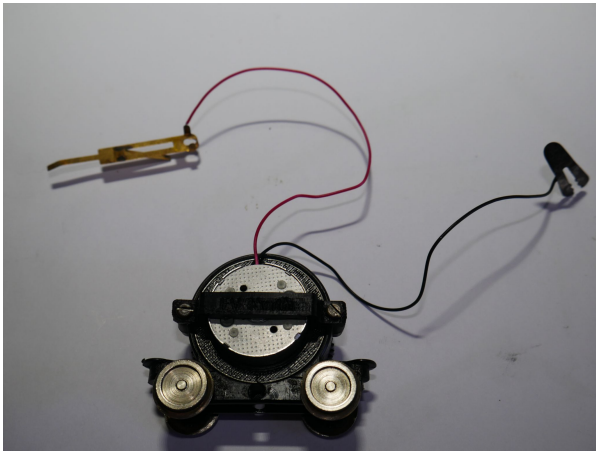


Next, the motor ring adaptor (large deep ring) needs to be fitted to the new motor and original bogie contacts soldered to the motor cables.

We also supply some heat shrink tubing in case wires need to be extended or if you are using a DCC setup etc.

At this point, the new white gear can also be fitted.



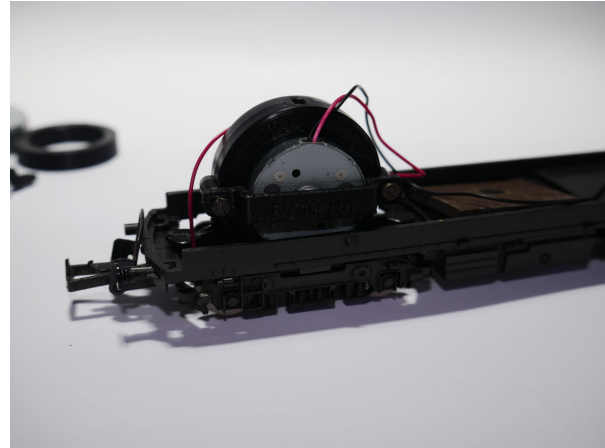


The final stage is to insert the new motor and ring adaptor to the original bogie casing. This will push fit into location. It is best to point the wires up and out of the way of the moving parts etc.

Now reusing the original screws, the motor clamping strap can be fitted.

From here on everything goes back as normal in the loco.

Before testing ensure there is free movement for bogie set to turn and also that there is no gear rub (as this will strain the motor).



Thank you for your purchase if you have any questions please do ask, equally please check out the other items we do such as buildings, upgrade kits etc etc

We also offer a fitting service for these motor upgrade kits and DCC among other things.