EDM Models

Gas Mechanical Re-motor Kit



Suitable for both the original DC version and the later DCC-ready Bachmann Gas Mechanical.

This kit replaces the original Bachmann motor with a much more powerful coreless motor, with an optional flywheel.

Install A: requires no drastic modifications to the loco but does not include a flywheel.

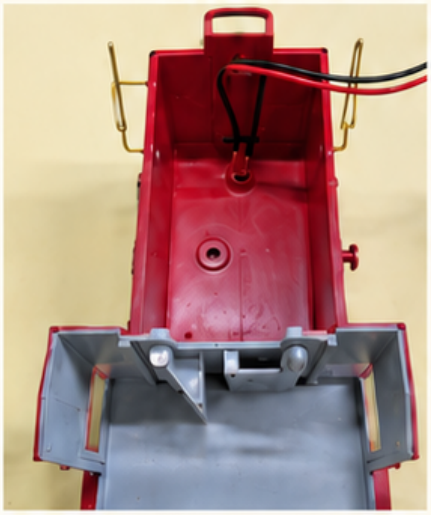
Install B: needs a saw, but gives you a flywheel (recommended).

You will need

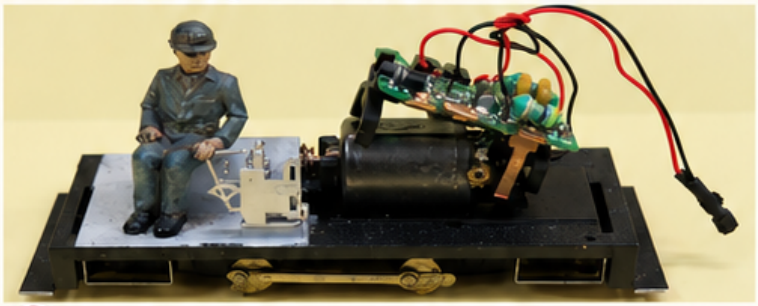
- Glue, superglue or 5-minute epoxy
- Soldering iron & solder
- Snips or cutters (small scissors will do)
- Loctite 603
- Double-sided sticky pad



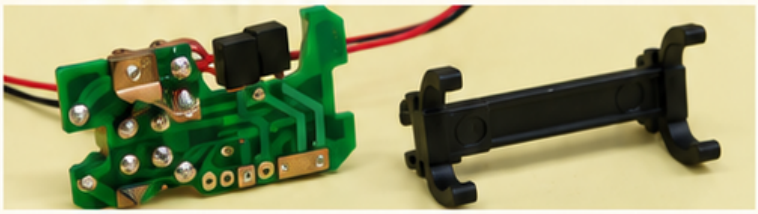
Removing the body and original motor



1. Remove the body by undoing the screws under the couplers and then pulling the coupler and cast pocket out.
2. The body should lift off, but may need a jiggle.
3. Mark which side of the bonnet the red wire to the lamp is on, then pull the wires off the LED.
4. Unclip the black plastic PCB support from the chassis. This is holding the old motor in.

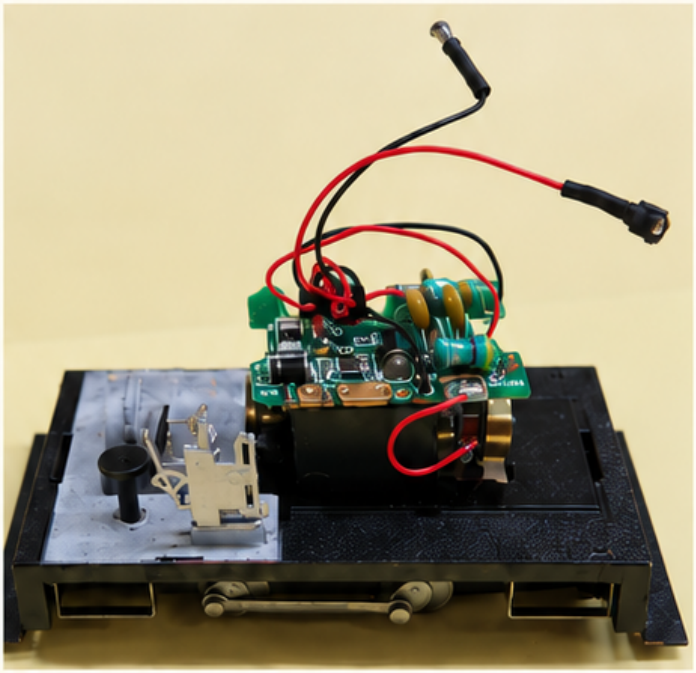


5. Move it away and then remove the motor.
6. Remove the black clip from the PCB and set it aside — this is redundant.



Install A — without flywheel

If you are fitting Option A without a flywheel, you can glue the motor in. It feeds in as the gears mesh, and the L-shape on the bottom of the motor bracket engages with the L-shaped cable groove in the chassis. You may need to taper the edges of the printed L. I use a black cyanoacrylate glue, but epoxy would also work. Follow the later stages for the electrical connections and reassembly instructions.



Motor fitted for Option A (no flywheel) with PCB mounted above the motor.

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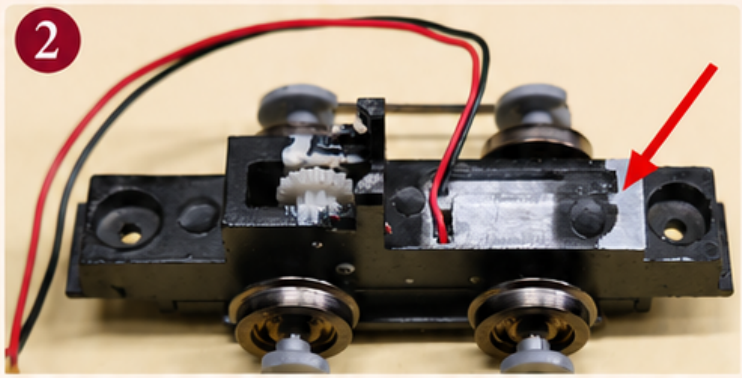


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Install B — Adding a flywheel

To add the flywheel, some chassis surgery is needed.

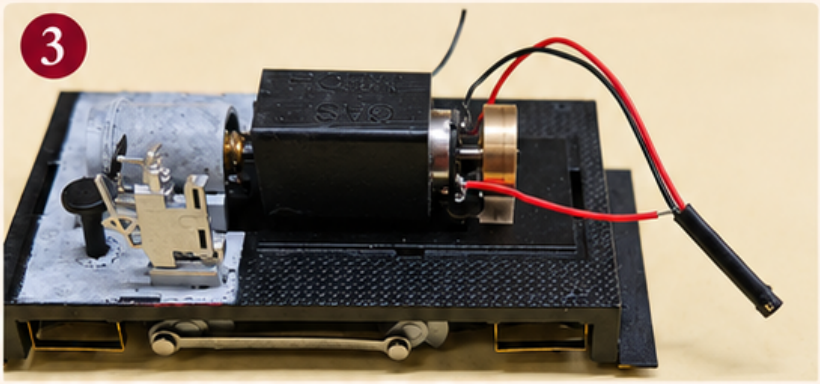
1. Undo the middle two screws under the loco and remove the centre chassis section.
2. Using a piercing saw, cut the motor mount away from the gears.
3. File the surface flat.



Remove the motor mount from the gears, as shown (arrowed), and file the surface flat.

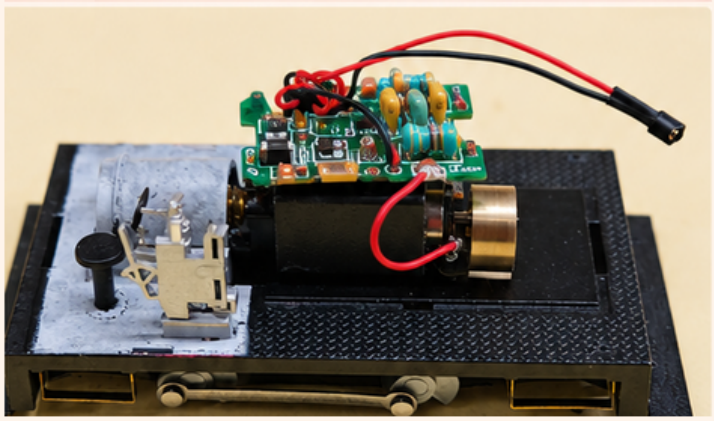
Reassembly

1. Solder two short wires to the motor (if not already fitted).
2. Bend the motor contacts flat to give a bit more clearance for the flywheel.
3. Slide the flywheel onto the shaft before you glue the motor in — it does not fit afterwards.
4. Cut the wiper that used to connect to the motor off the PCB.



Side view showing the motor and flywheel fitted.

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PCB mounted on top of the motor using a double-sided sticky pad. The end nearest the cab should be over the remaining bracket.

DCC USERS

You may need to tweak the original decoder setting to suit the coreless motor or upgrade to a modern decoder

Consumables / Reference



Use Loctite 603 (or similar) to retain the flywheel.

https://www.simplybearings.co.uk



Use O3a black cyanoacrylate (or similar).

https://www.o3adhesives.co.uk/ often got deals on multibuys.

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