

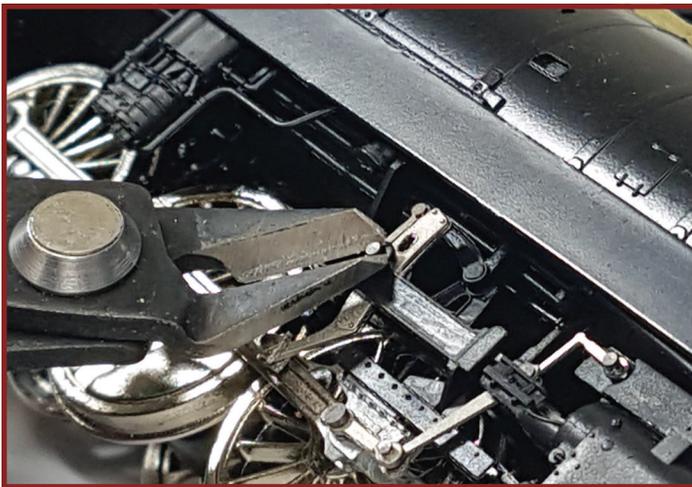
# HO SCALE ROYAL HUDSON

## ECCENTRIC GEAR LINKAGE REPLACEMENT

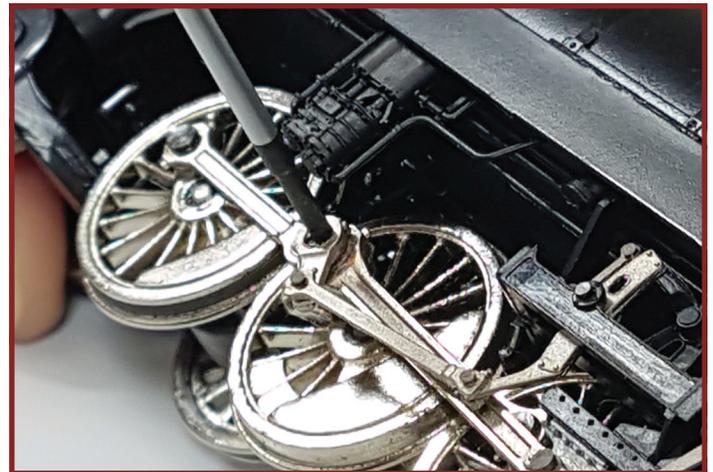


Please follow these instructions to replace a broken or deformed eccentric gear linkage on the HO scale Royal Hudson locomotive. Should you have any questions regarding this repair, please contact us for further assistance.

1. Lay your Royal Hudson locomotive (boiler) unit on its side in a locomotive cradle, or any other soft surface, like a sponge or foam packing material.
2. As a precaution, take a picture showing the side gears clearly as a reminder to the position of the eccentric linkage during replacement.
3. Make sure you have the correct kit with you. There is a specific one for the Engineer's side (right-hand side when facing the front of the locomotive from the cab) and the Fireman's side (left-hand side).



4. Using a pair of pointed tweezers or a fine wire cutter, gently hold the head of the pin and force it outward. The pin is pressure fit and will eventually come out easily. If it does pop out and disappears for ever, please don't be alarmed – the kit contains a spare pin. (see image at left)



5. Next, using a flat head screwdriver, remove the screw from the other end of the link. (see image at right)
6. Remove the linkage by raising it off the eccentric gear and sliding it out.
7. Replace the linkage with the one supplied in the kit. If you notice, the link and the eccentric gears are keyed. This is to ensure that the link fits into the gear only in one position. This is a good time to double check with the picture you have taken and confirm the orientation.
8. Replace the screw and tighten down the new linkage.
9. Align the other end of the linkage under the bracket and make sure the small round hole on the link is positioned under the hole in the bracket. Gently insert the pin using your fingers and press it flat. PLEASE DO NOT APPLY PRESSURE as this may cause other components to deform.
10. Place your Royal Hudson on the track and test to ensure it now runs smoothly.