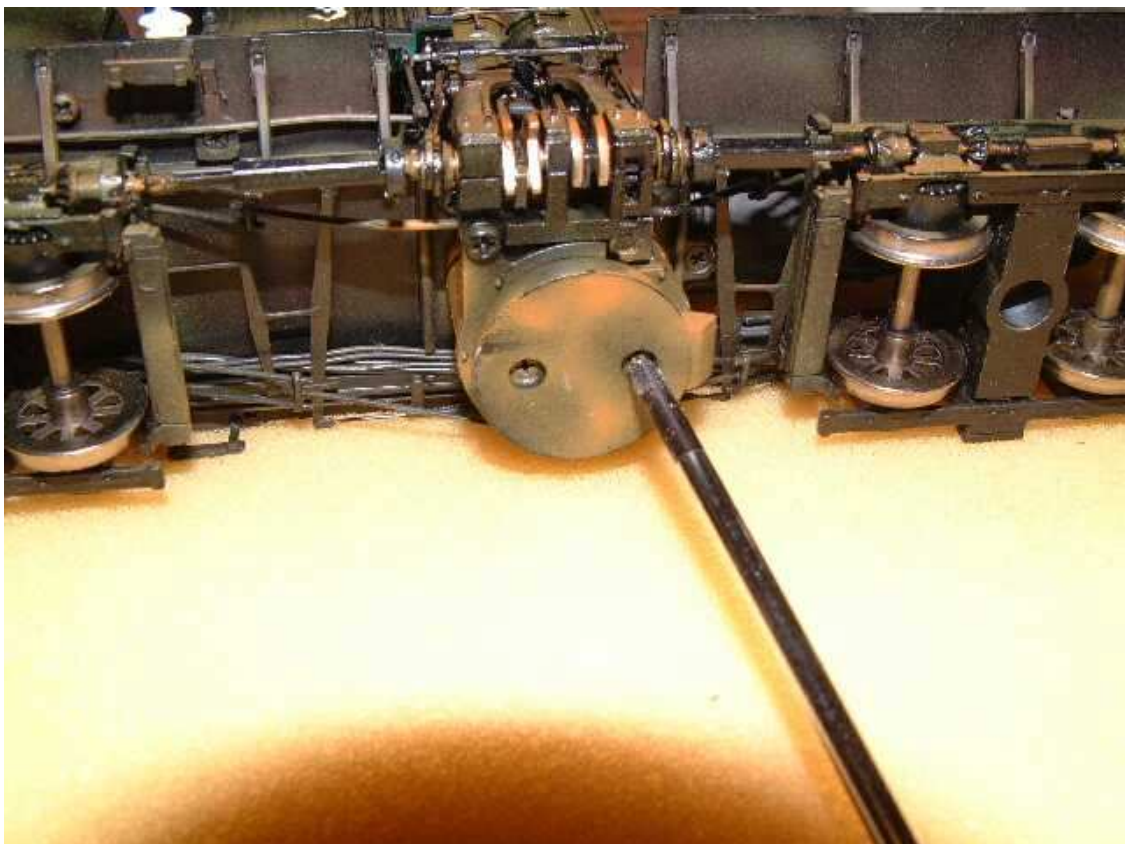




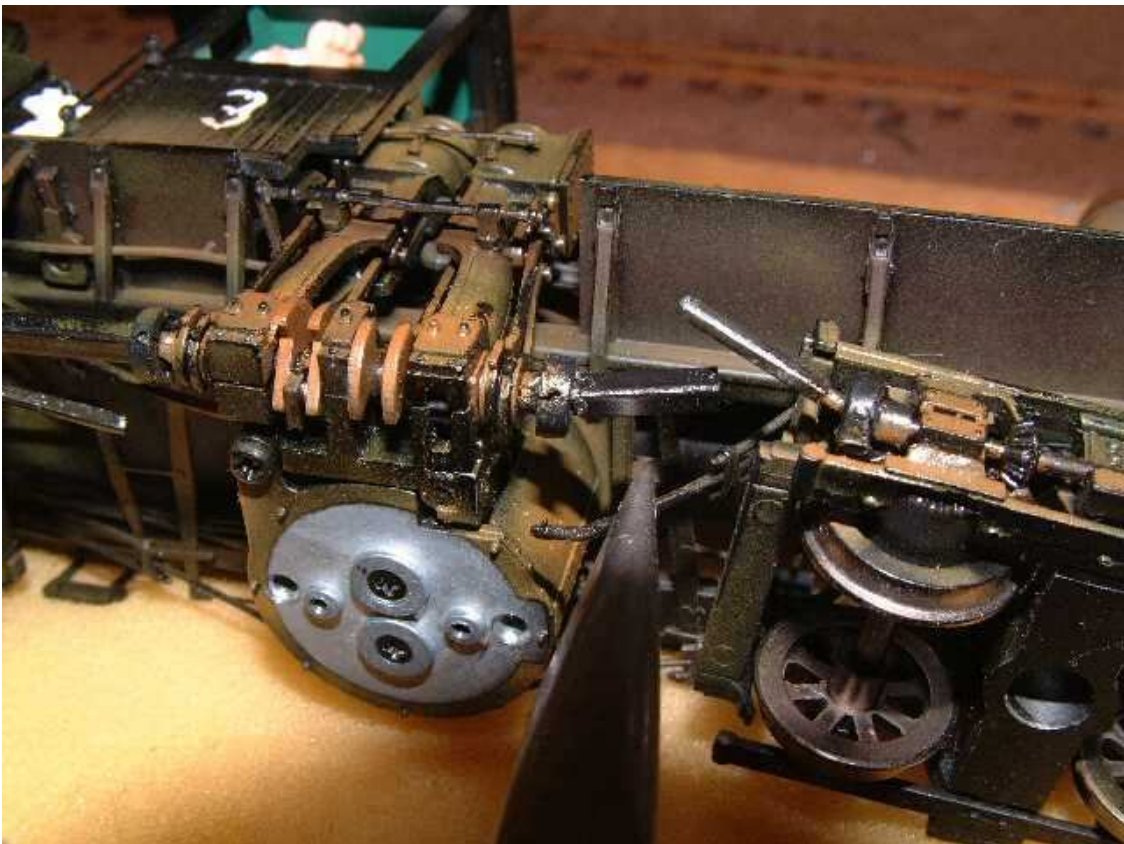
**Step #1 What you need: One On30-Shay ;-oil and grease small screwdriver a piece of track for test run small box to save the screws Use a piece of foam under the shay to save the details.**



**Step# 2 Use a screwdriver and remove the ash pan on the underside of the shay. Put the pan and screws in the box to find them again later.**



**Step# 3 Open the U-joints by turning the trucks.**



**Step# 4 Behind the ash pan you will find 4 other screws. Turn out the two outer screws.**



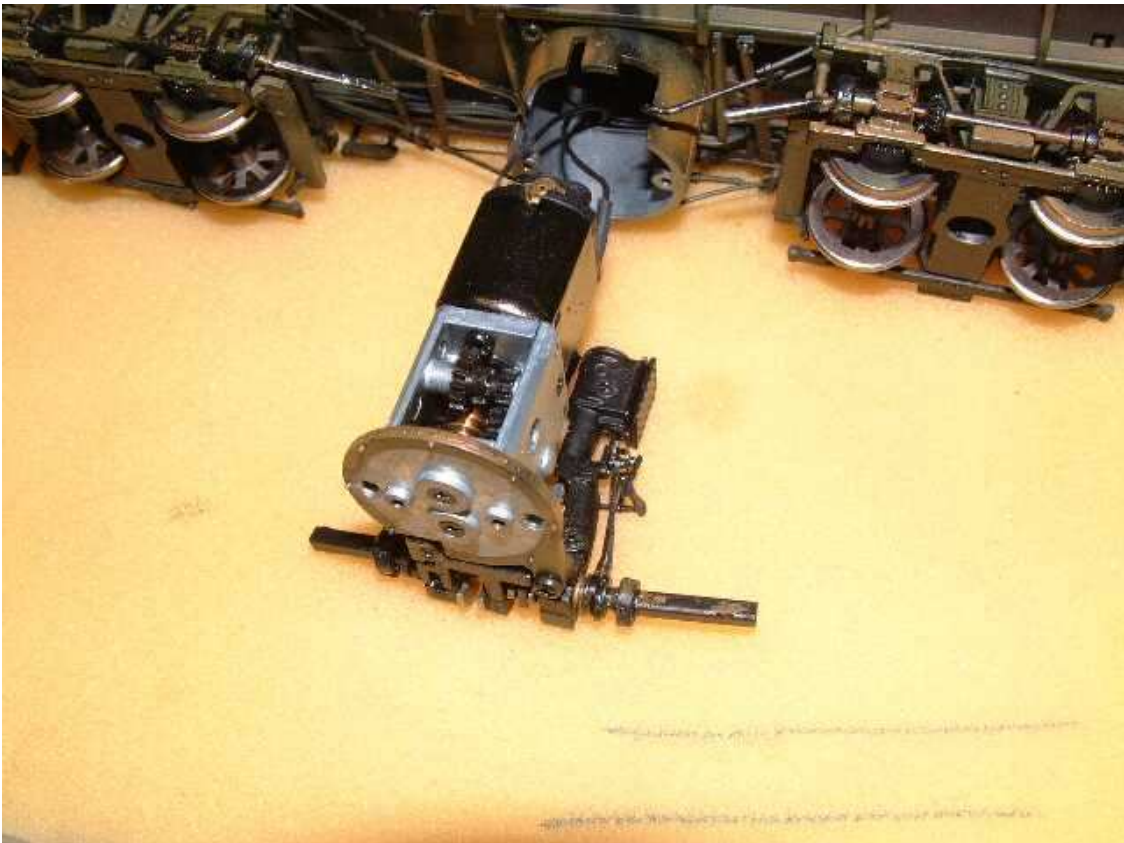
**Step 5 at the side of the firebox; you will find the truss rods. Loosen these parts with a tweezers or use a small plier.**



**Step # 6 now; we will get the heart out of the shay. Use a screwdriver again and out it between the cylinders and the steam pipes. Push the pipes to the boiler and pull the cylinders in the other direction. The pipes will be slip out of the cylinder.**



**Step # 7 Turn the shay like shown in the picture and pull the gearbox out of the model. Be careful, the wires on the motor are not very long.**



**Step # 8 Turn around the gearbox and you will found many gears with hungry teeth.**



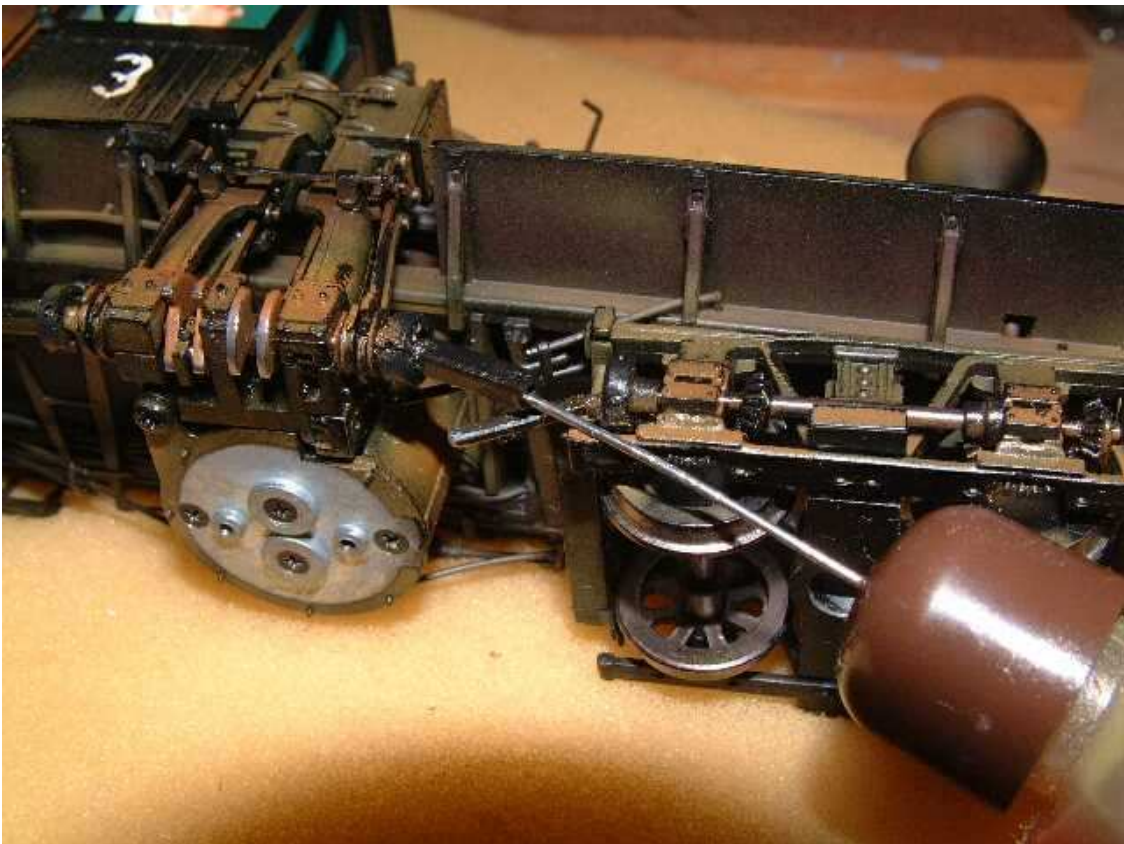
**Step # 9 Use grease and a toothpick to lubricate the gears.**



**Step # 10 Use a drop of oil to lubricate the bearings at the motor.**



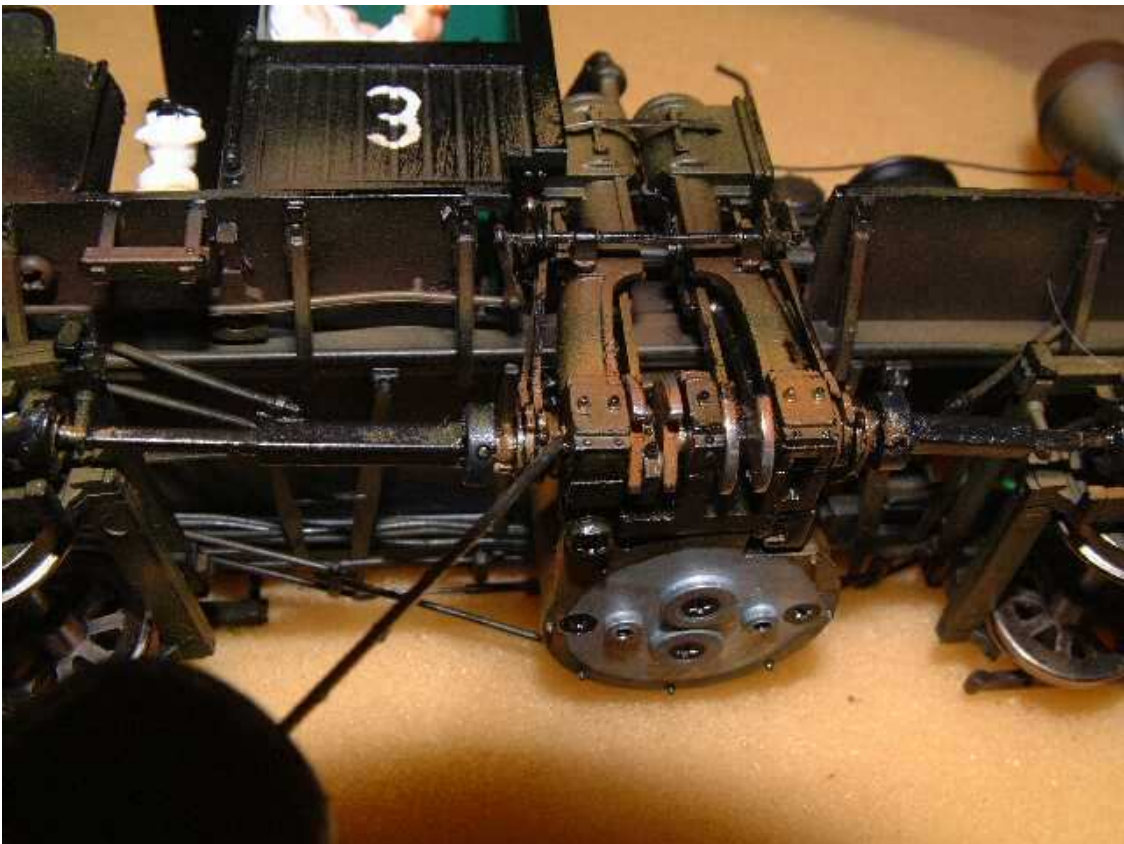
**Step # 11 Add some grease to the gears going from the gearbox to the cylinders**



**Step # 12 Reassemble the shay the same way you have disassembled  
In addition, put a drop of oil in the u-joints.**



**Step # 13 Do also on the bevel gears at the trucks...**



**Step # 14 ... and at the crankshaft with all moving parts.**

**Step # 15 that is all, use the test track and let the shay run. You will need some feet of running to distribute the grease and oil to all gears.**