INSTRUCTIONS FOR #100270 USRA LIGHT PACIFIC KIT - 3-1-94

These instructions provide photographs of completed model, exploded-view drawings, diagrams, step-by-step instructions and an itemized parts list. If for reasons beyond our control, any shortage or faulty part is found, write directly to manufacturer, including name of your dealer and date of purchase. Return any defective parts for exchange.

The builder should study the instructions and drawings to attain a working knowledge of proper procedure. Assembly work should be done in sequence outlined in this manual to assure proper construction.

We have included some extra parts in case you misplace or drop them on the floor.

Do not run the mechanism or the engine upside down.

TOOLS

This is a builders kit, you will need a few tools. You will find use for the following: small hammer, several assorted pattern files, jewelers screwdriver (a set is convenient), a 6" flat file with a fairly fine cut, knife, pliers, flush cut nippers like Mascot #413 and tweezers.

BEFORE YOU PAINT THE MODEL OR DETAIL THE BOILER, WE RECOMMEND THAT YOU BUILD THE COMPLETE MECHANISM ATTACH THE UNDECORATED BODY AND THOROUGHLY TRACK TEST IT.

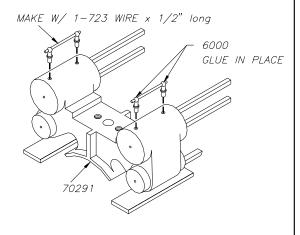
Clean flash from edges of bearing slots. (Dark lines). File matching surfaces (shaded) on a flat file. Check to see if thses parts are straight. They should touch full length. Straighten as necessary. Remove all burrs and chips.

Full size Parts Drawings - Parts in Subkit #100253

STEP 3: CYLINDERS PREPARATION

If brass guide comes out, put a drop of glue in hole and tap into cylinder. Handrail posts are in sukit #100258.

6000



100270-1.pm5 PAGE 1

3703

256

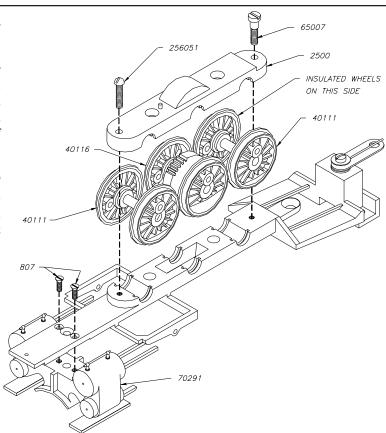
STEP 4: ASSEMBLING DRIVERS AND CYLINDERS TO FRAME

Identify which wheel of each set of drivers is insulated. With two wires hooked to your powerpack, touch one to the axle and one to a wheel rim. If you cause a spark, that is the uninsuldated wheel. If there is no spark, that is the insulated wheel. The insulated wheel has a thin gray strip of insulation between tire and black wheel center.

Install drivers making sure that the INSU-LATED wheel of each driver is on loco's LEFT SIDE. Left is determined by imagining you are sitting in cab of loco facing forward. Begin with geared driver (40116) in center slot and light counterwight drivers (40111) in rear and front slots. Put a small drop of oil on axle bearing.

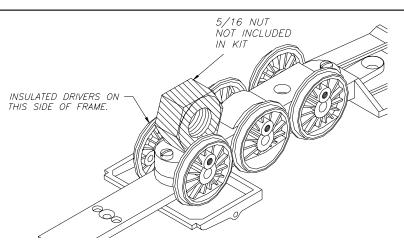
Full size Parts Drawings -Parts in Subkit #100253 & #100257

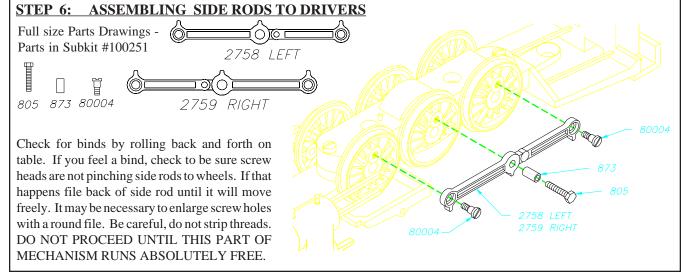




STEP 4: SEATING BEARINGS

To seat bearing, turn frame and driver assembly upside down in your hand - NEVER ON ANYTHING SOLID - put a 5/16 nut or small block on coverplate between a set of drivers and hit nut/block (NEVER HIT WHEELS) until this set of drivers spins freely. Repeat for each set of drivers, getting as close to geared driver as possible, both forward and to the rear of gear housing, but not on gear housing. As you tap coverplate down, take up on screws. WHEELS MUST SPIN FREELY BEFORE PROCEEDING. Do not use shims between frame and coverplate.





100270-1.pm5

