

These instructions provide exploded view drawings, diagrams, step-by-step instructions. If for reasons beyond our control, any shortage or faulty part is found, write directly to the factory 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 should be 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 ENGINE UPSIDE DOWN.

TOOLS

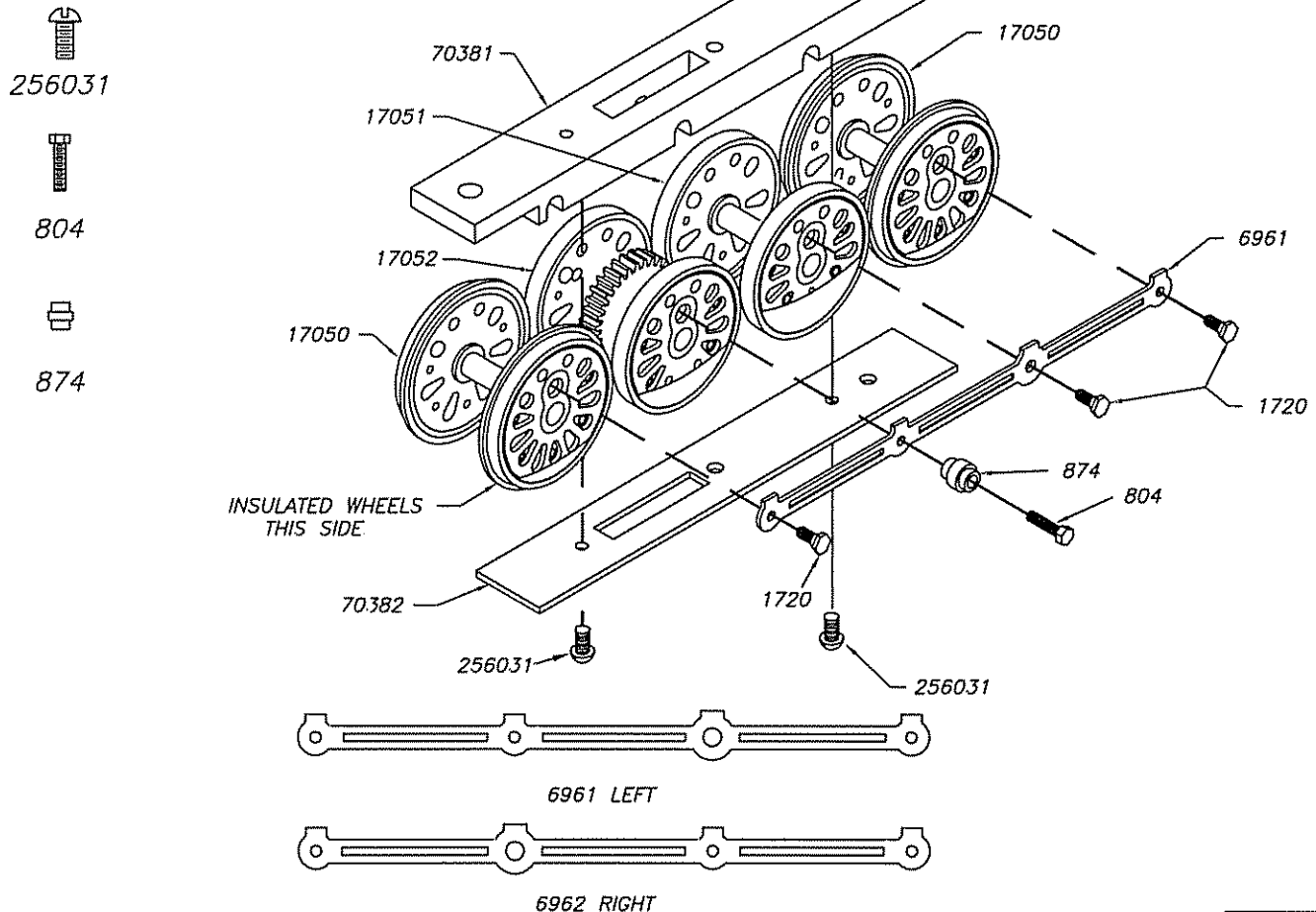
This is a builders kit, you will need a few tools. You will find use for the following: small hammer, several small files, jewelers screwdriver (a set is convenient), a 6" flat file with a fairly fine cut, knife, pliers, flush cut pliers and tweezers

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

Disassemble Bachmann engine. Remove valve gear carefully. Save all parts. We will use the body, cylinder, trailing truck, lead truck, main rod crosshead and valve gear assemblies, tender body, tender floor and trucks. We will not use the underframe, motor, drivers or side rods.

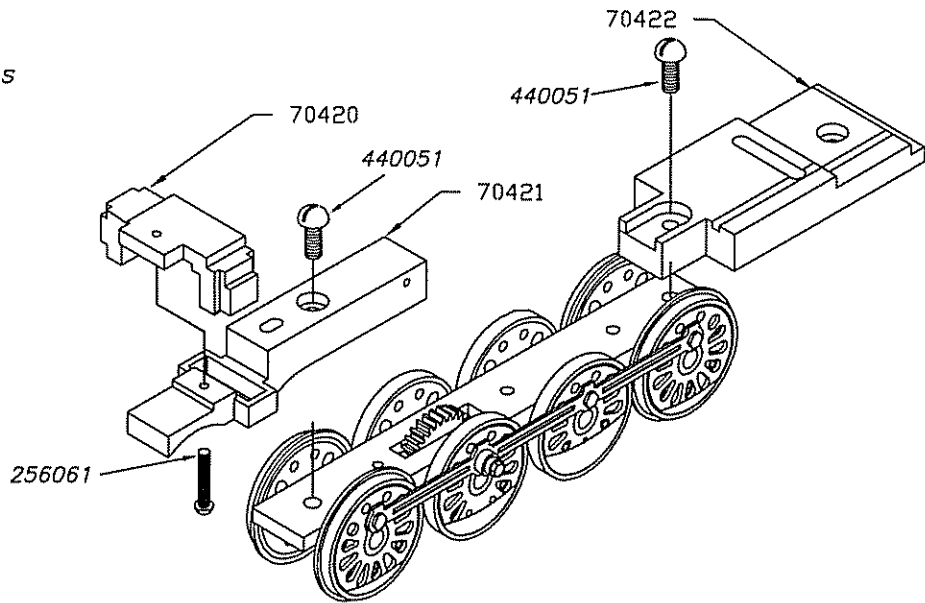
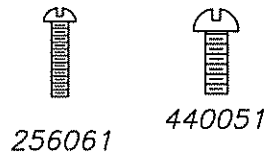
STEP #1

Clean flash from edges of parts. File mating surfaces on a flat file. Check to see that the frame is straight. Assemble wheels and assure they spin freely. Assemble side rods check for binds. Ream holes in side rods if necessary to eliminate binding. Oil lightly.



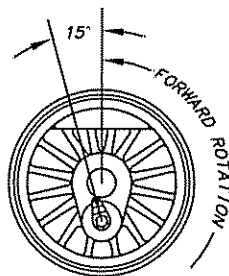
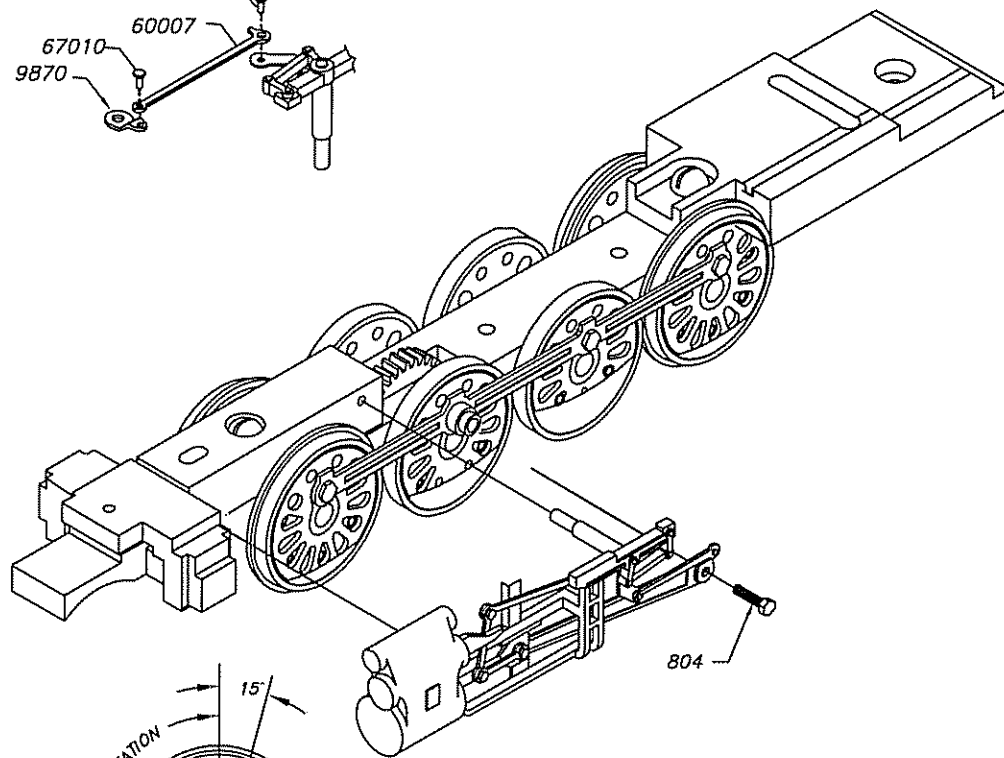
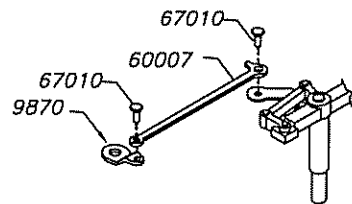
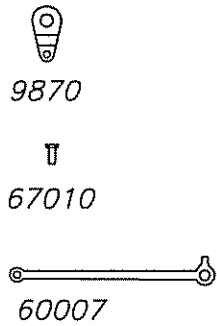
STEP #2

Assemble Frame Extensions

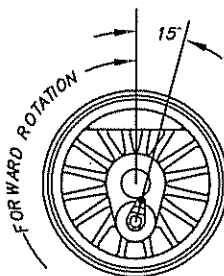


STEP #3

Replace Bachmann eccentric with Bowser eccentric (9870)
Remove post from inside plastic cylinder
Glue the Cylinder Covers on the end of cylinder holder



LEFT SIDE

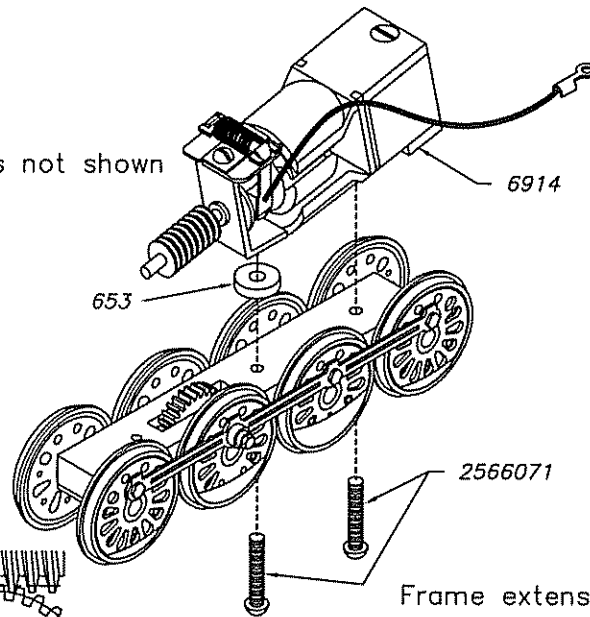
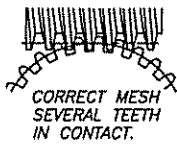
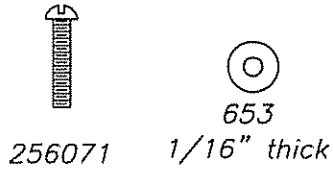


RIGHT SIDE

STEP #4

INSTALL MOTOR AND
WEIGHT TO MECHANISM

Frame extensions not shown

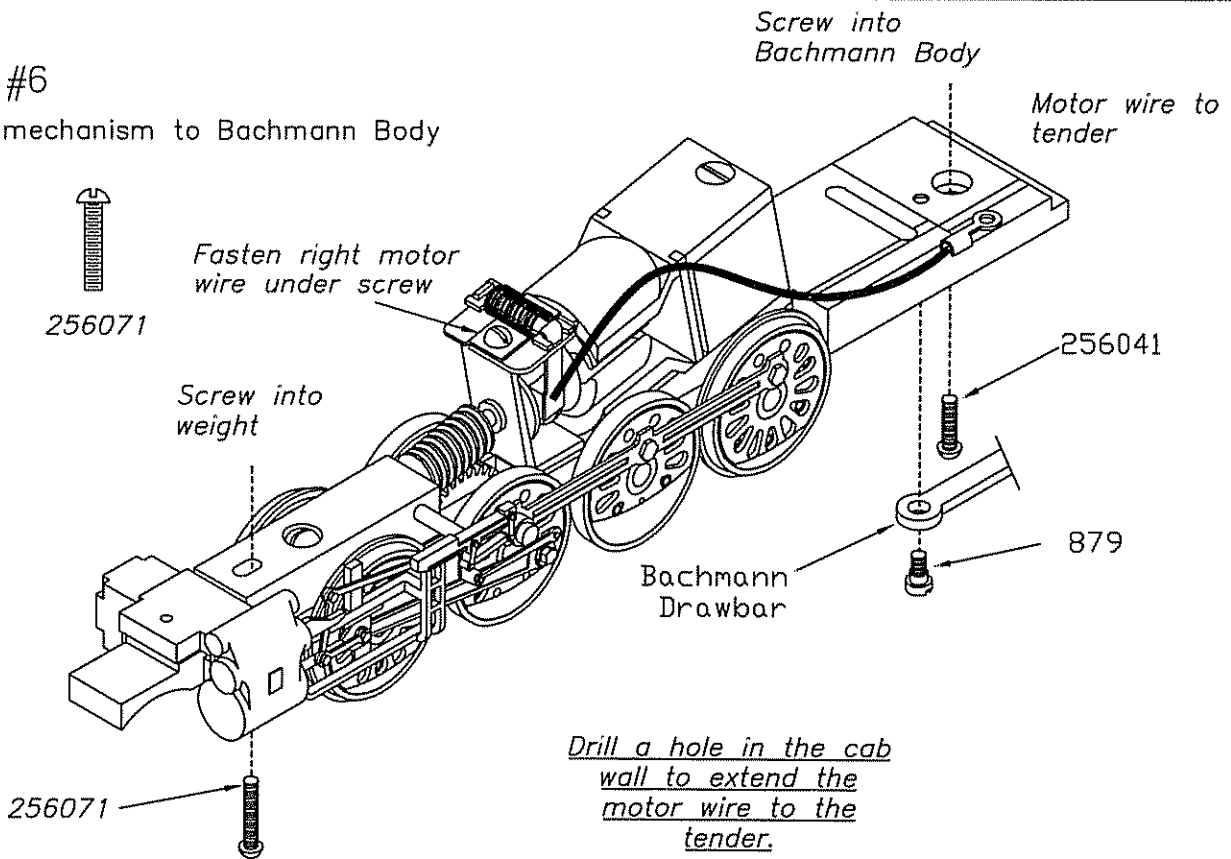
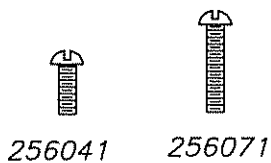


STEP #5

See the photo page. Dry fit the weights. Than glue in place.
Brass weight needs a little glue also.

STEP #6

Fasten mechanism to Bachmann Body

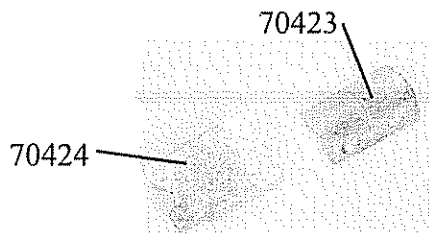


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STEP #5

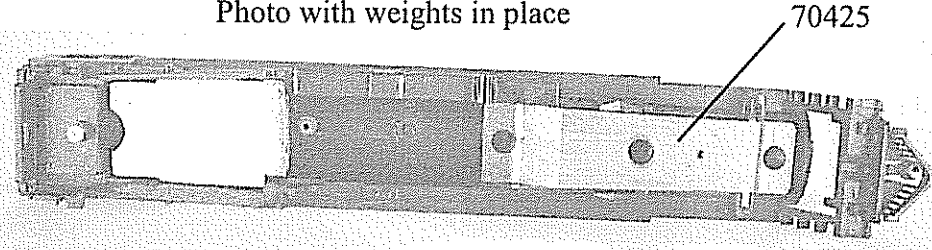
Make tender wheel wipers and fasten wire to tender as pictured on photo page.

3-205 Picture Page

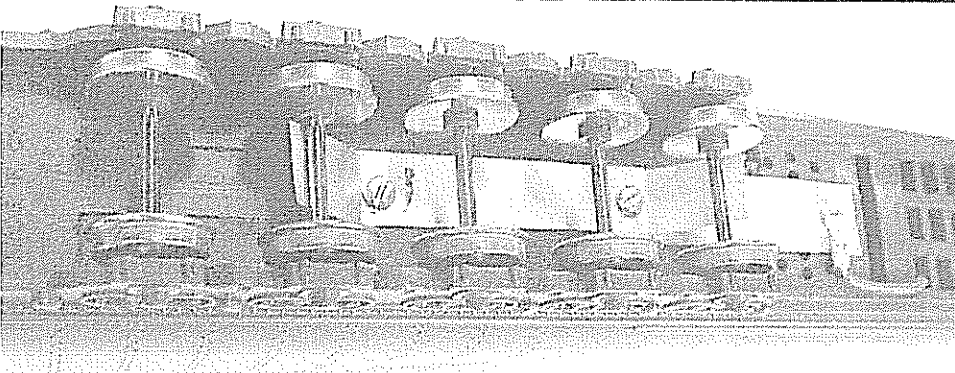
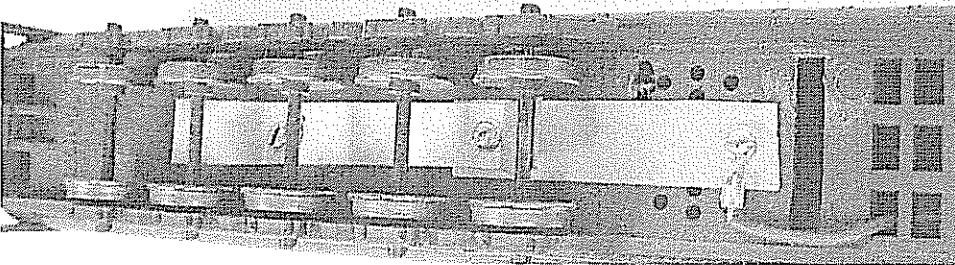
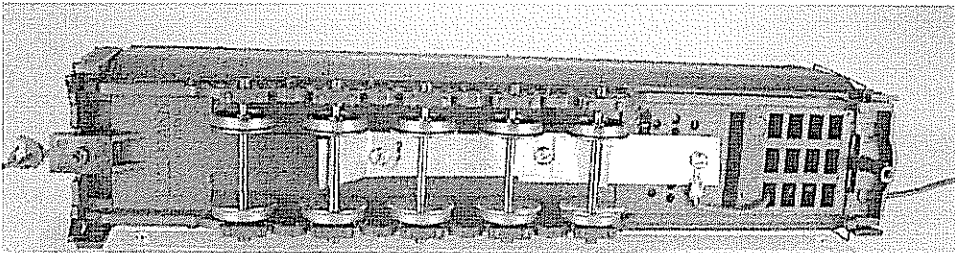
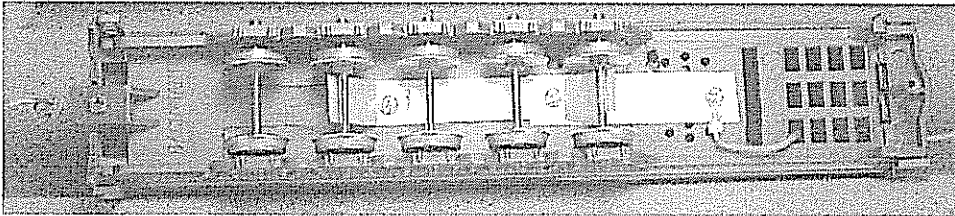


Photos of rear weights. Round side goes into body first. Glue in place

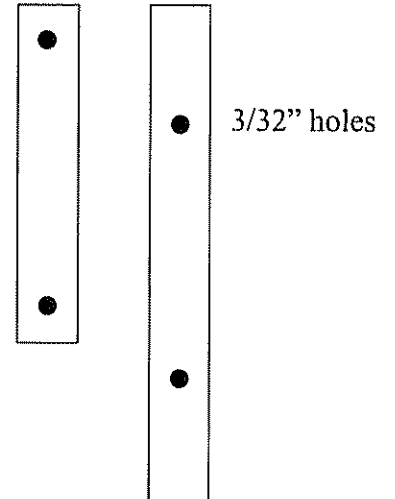
Photo with weights in place



Tender pickups. Brass strips cut and screwed to the floor. Remove the front of the tender. Drill hole for the wire.



Make the brass pickups. Templates below. Bend the ends of the long pickup to touch the axles.



Use #2 x 3/16 sheet metal screws #2623 hold brass pickup in place. (a #50 hole in plastic) Wire 6992 will attached to the motor wire with a 2-56 x 3/16" screw (256031) and 2-56 nut (256).