

# INSTRUCTIONS FOR #3-204 MECHANISM FOR BACHMANN DAYLIGHT 4-8-4 KIT

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.

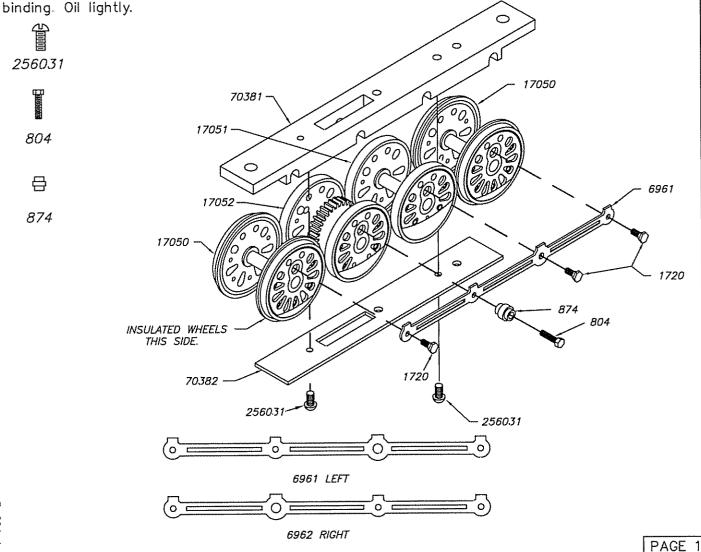
BEFORE PAINTING YOUR MODEL OR DETAILING THE BOILER, WE RECOMMEND THAT YOU BUILD THE COMPLETE MECHANISM, ATTACH THE UNDECORATED BODY AND THOROUGHLY TRACK TEST IT.

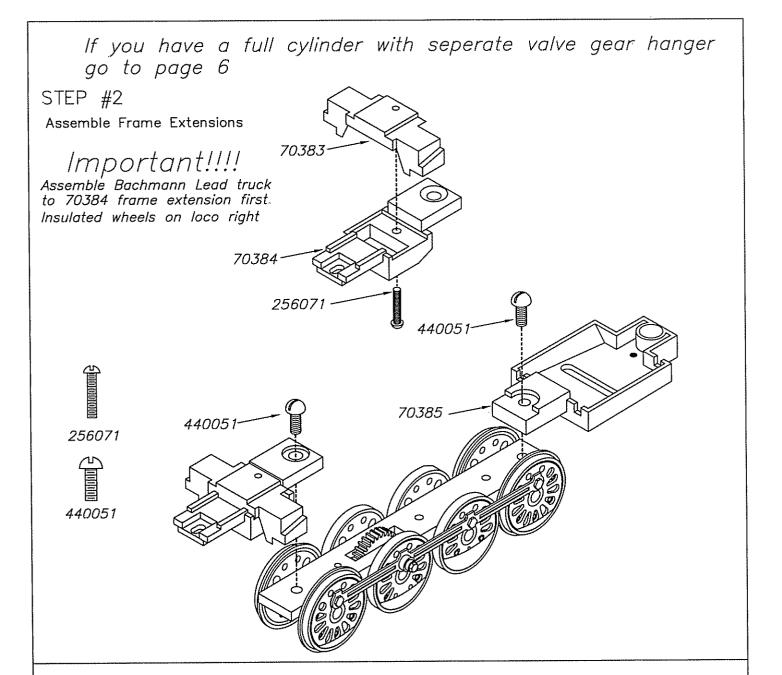
Disassemble Bachmann or Lionel engine. Remove valve gear carefully. Save all parts.

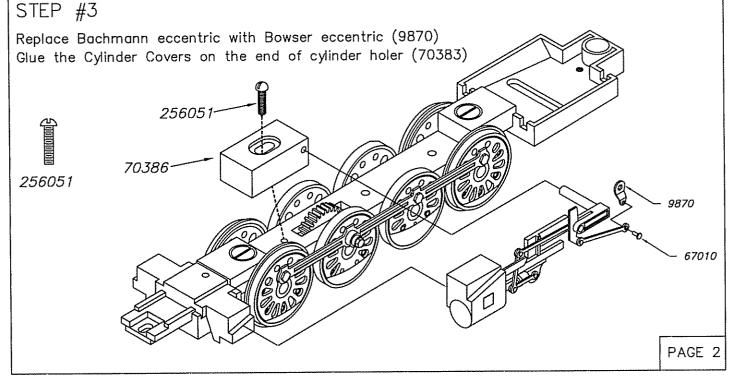
We will use the body, cylinder, trailing truck, lead truck, main rod crosshead and valve gear assemblies, tender body, tender floor and trucks. We will not use the underframe, motor, drivers or side rods.

#### 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

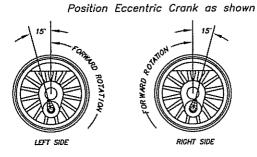


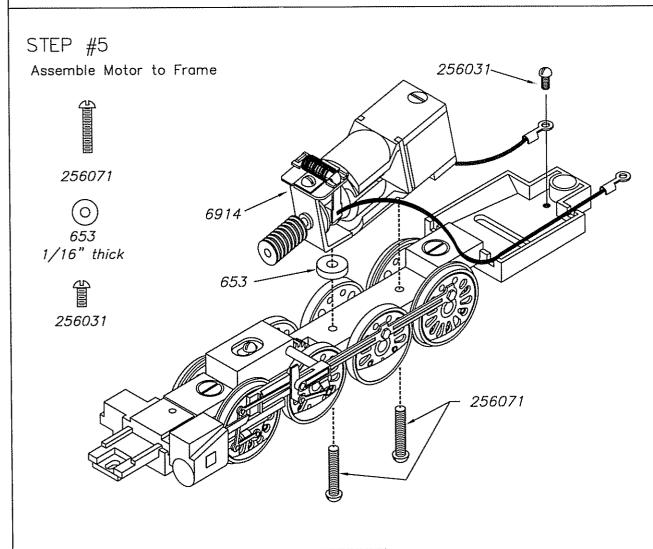




STEP #4

Position Eccentric Crank





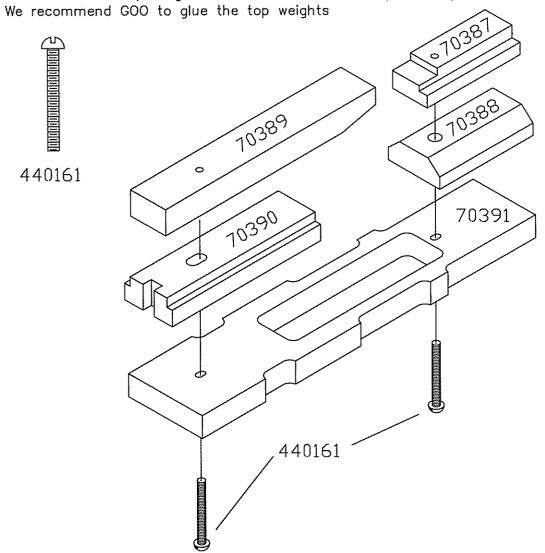






### STEP #6

Assemble weights into boiler
Dry fit the weights first. Be sure the bottom weight (70391) sits inside of the body
ONLY GLUE the top weights 70387 & 70389 into top of body



### STEP #7

Assemble the trailing truck to the mechanism first Assemble mechanism to body



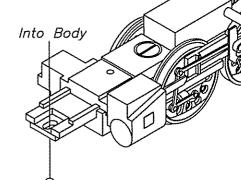
Insulation on the trailing truck wheels, lead truck wheels and drivers must be ont he smae side. Right side.



256051



256031

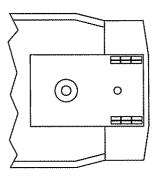


Drill a #50 hole in the bottom of the cab floor 1/4" from the rear of the cab.
Fasten the motor wire with a 256031 screw.
The wire from the tender will fasten here later.

256051-

Into Body

--256031



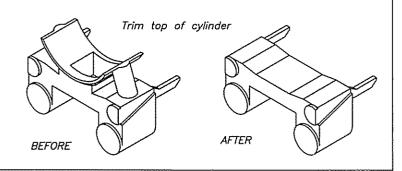
Rear of Cab from bottom

Bachmann

Drawbar

#### STEP #2 - for full cyliner

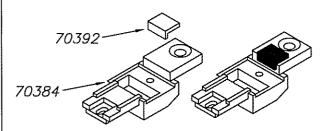
Assembly if the Bachmann or Lionel has complete cylinder as in drawing below.



### STEP #2a- for full cylinder

Assemble Lead truck and frame extension

Glue spacer in place

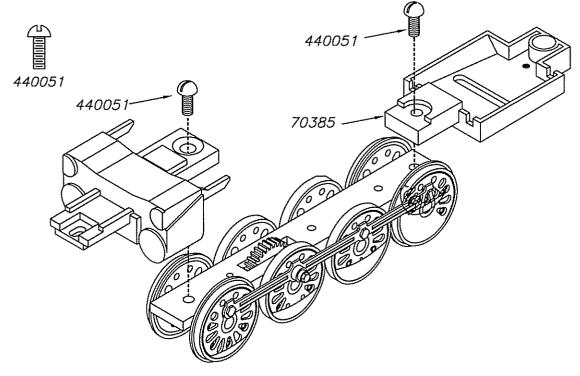


Assemble Bachmann Lead Truck to the frame before gluing.
Use a little glue (Goo) to hold the cylinder to the frame extension

Plastic cylinder

## STEP #2b for full cylinder

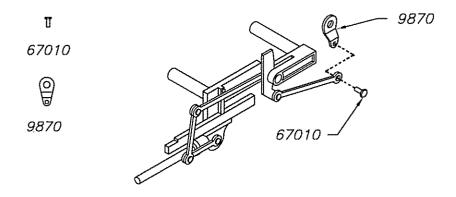
Assemble valve gear

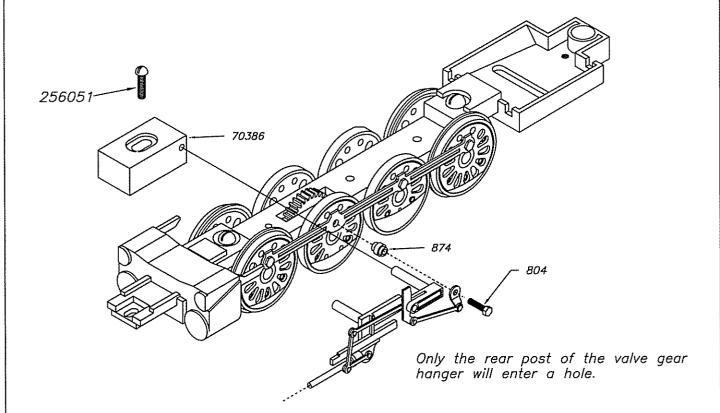


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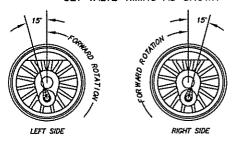
### STEP #2c - for full cylinder block

Assembly if the Bachmann or Lionel has complete cylinder as in drawing below.

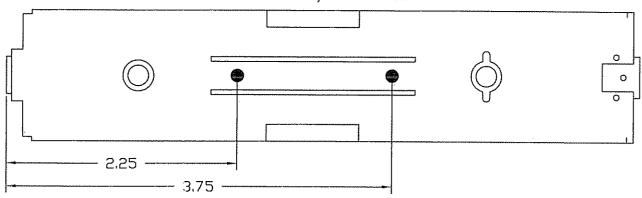




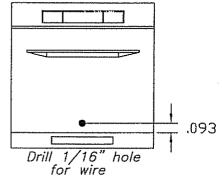
SET VALVE TIMING AS SHOWN



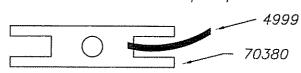
Drîll 2 holes 1/8" diameter



Front of Tender Body



Cut 2îre in half and Solder ends of wire to pickups



Bow ends of pickups so they touch the axles. Put trucks in place. Place pickup on truck and turn in screw.

