

it will hold itself in place. Clean out hole with drill, push epoxy in to hole with wire, coat end of Uncoupler Bar and insert into the hole. Epoxy Flagstaffs too, or wait and epoxy Filters too at the same time.

#47.1 Filters--With scribe, start a hole in the center of each

little step on the Pump Shield, as shown. Drill a #65 hole here in each step, then redrill them #63. Cut Filters cluster, leaving Piping as long as possible, then file diameter of Piping at ends where outting made them larger.



File underneath of steps well to remove paint. Push Piping up into hole from bottom so Filter hangs just below step as shown. Bend the Piping down to the rear and behind the step. If too short, solder on a short length. Epoxy on.

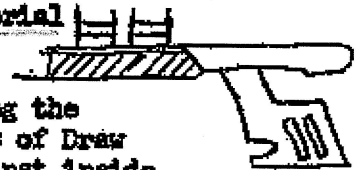
#58.1 Air Hoses--Can be put on here, or better when engine is done.

#20.1 Leaf Springs--Install so tops of Springs just show over Drivers. Then take Drivers out of Frame and torch solder Springs right over axle holes.

#64.6 Pilot Truck, 4 Wheel--Use 33" wheel sets for clearance. Bolt Beam-Deck on Steam Chest, in order to locate Pilot Truck between Pilot and Steam Chest. With file, or better cut-off disc, remove crosshatched material below air pumps, up to the Beam, for wheel clearance.

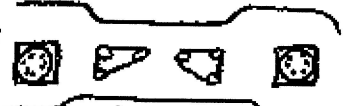
This will be a very close fit for hi-rail wheel sets.

We strongly recommend the Draw Bar method of installing the Pilot Truck. It seem best for about 14" between holes of Draw Bar. Hi-railers may get shorting of wheel flange against inside corner of the Steam Chest, so this point on both sides should be ground some.



#65.2 Trailing Truck, Roller, 4 Wheel--36" & 51" wheel sets. (Do not have 51" in hi-rail, so 45" will be furnished.) (On occasionally we may be out of 51" scale, so 45" will be furnished.) This Truck is not exactly like the Hudsons, but can be made so if you will drill holes in corners as

indicated and filed out between, or drill some of this surplus also. The original 4 holes form starting corners, with their diameter maintained. Be sure



left side, insulated, of wheels do not touch Truck. For hi-rail, some of the inside of Truck will need grinding away. On some occasional castings you might note wheels do not set in square, so you will have to bend one rear cross member forward, then the front yoke bent forward too, until wheels set straight. When putting in front wheel set the Yokes (front section of Truck) may not come together. Be sure axles do go in far enough, if not drill deeper, or/and bend the two Yokes to meet with long nosed pliers. Occasionally insulation on wheel sets stick out too much, beyond about 1/64" to 1/32". If so, of course trim shorter, Roll complete running gear on you tightest curves and cure any derailment caused from Pilot and Trailing Trucks. Be sure rail is properly gauged, as well as all wheels and Drivers.

#26.1 Valve Guides--Grind off these on the Steam Chest down to round base plate.

Cut assembly pins 1" long and file sides off pin where outting mashed it wider. Insert Valve Guides into Steam Chest. With cut-off disc, grind base of Valve Guide to match base plate on Steam Chest. This is purposely done to get Valve Guide and its Combination Lever as far outward as possible, which is difficult on a model. Roughly file or scratch with scribe both matching surfaces of Guide and Steam Chest, then epoxy in.. Drill out holes in Guide .029.

#32.2 Long Baker Valve Gear-- } This will be the hardest in whole engine and will

#34.3 Inside Yoke-- } take your patience to get it and Rods to fit. Your basic problem will be getting Yoke-Valve Gear Frame out from side of engine Frame far enough to clear Counterbalances and still get Yoke over Crosshead Guides and still not too far out so holes in front of Yoke is not past Valve Guide center. The Valve Guide center should be outward from Crosshead shaft hole in the Steam Chest so Combination Lever and Union Links will be on the out side of Crosshead Guides. The problem is made because model Steam Chests should should be much wider than prototype, but these are not. So some compromises have been made below.

Grind off little projection .2" on bottom of Frame.

