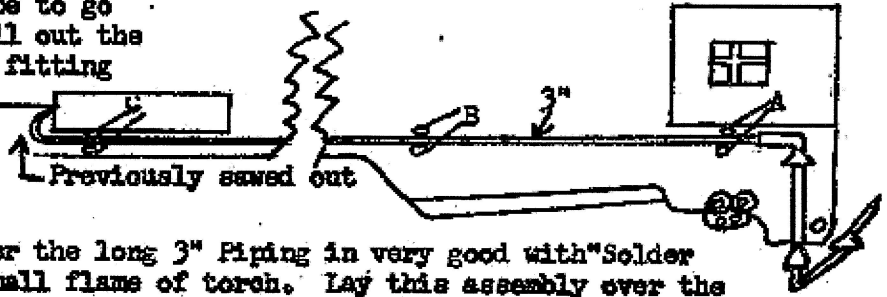
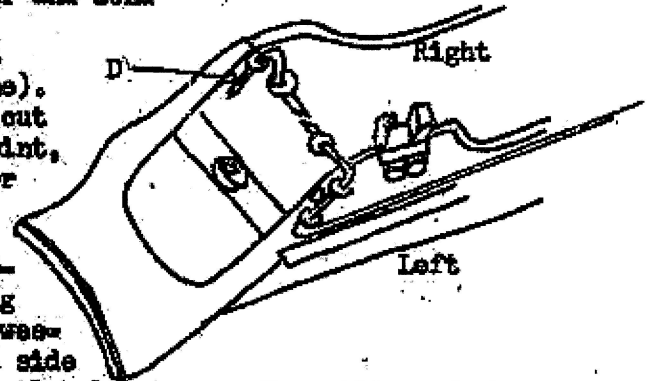


out, maybe break. Take the edge of your cut-off disc and carefully grind off this whole piping down to the Boiler, then scrape burrs off with file. Remove also the Piping just under Cab only. Heat a length of 3" Piping to go from front of Tank to middle of Cab, red hot to soften it. Take one Booster Engine Pipe and bend so it will fit as in drawing, short Pipe at top and long Pipe to go under Cab. Drill out the hole in the top fitting somewhat deeper with #55 drill so Piping put in it will solder



securely. Solder the long 3" Piping in very good with "Solder in Paste" and small flame of torch. Lay this assembly over the Piping just ground off, as shown, with Piping in front of Tank, disappearing (bent) inside the Boiler there and epoxied. The bottom Booster Engine Pipe goes below the engine Frame, --to rear of Truck. Take about 2" of 1" Piping and mash it some what flat in the center, then bend it here in a 'U' shape. Make three of these and push into holes 'A', 'B' & 'C', over 3" Piping. Twist wires tight inside Boiler and bend along side of Boiler.

On the right side grind off paint all around Grabiron 'D' (and left one). Take other Booster Engine Pipes and cut off the top joint right below the joint, so it can be fitted inside the Boiler as shown at 'D'. Where both Pipes now meet in the center, grind each Pipe at an angle to give more soldering surface and solder these, holding the right Booster Engine Pipe with tweezers and end of Piping tight against side of Boiler at 'D', but clear of Handrail hole here.



You will no doubt have to solder several times before getting it just right. This solder joint will hold Pipe next to Boiler at 'D' while epoxy sets, holding Piping to the Boiler here. Put epoxy all the way over the Pipe and well on the Boiler side. This is the only engine that we have seen with this Piping on the inside, instead of on the outside as the left side. Normally these Pipes joined would go into a Booster Engine in the Trailing Truck. But of course this is hard to model.

Cab Hand Rails (Grab Irons) -- Make these out of .025" (or .020" prototypical) piano wire, the same shape as those removed, and epoxy into holes, after clean-holes with small drill by hand.

#144.6 Cold Water Pump -- Read Instructions. The vertical portion 'D' should be bent out almost straight, so Pump base is about level with top of Truck Yoke. The 5" Piping goes rearward near top of Truck sideframe. Probably easiest to solder Pump on Truck first, then solder on 5" Piping. If you use a torch, be sure close wheels which are insulated ones and springs are well covered with wet swabs. You might want to tack solder rear of Pipe to Truck sideframe.

#86.3 Headlight, Pyle Natl. -- Grind off the AF Headlight with bench grinder, then cut-off disc and file smooth. Clamps around the round Door are cast poorly, so file steps sharp with small sharp edged file. The nuts on them (tops) need sharpening up too, by filing around them, but good sharp edged file is needed, starting on the outward top side (edge), gradually filing around nut. This is one of many places a binocular head magnifier comes in handy. Install Headlight right in the center of Boiler Front, making its pin about 7" below edge of large hole, from where plastic came out. File inside of large hole to take epoxy, epoxy paper over in-