

both pieces, put wet swabs over plastic wheel set axle and plastic near Journal, add a small bead of solder and solder with soldering iron. (The shank above Brake Shoe will be cut close to Brake Shoe and bent toward the wheel. If you get Brake Shoes with rod extending below the Brake Shoe, cut them off near Shoe). Also you should soak a piece of card stock such as a calling card and place it between wheel and Brake Shoe, wetness will allow it to bend to wheel contour. If torch is used, more covering with wet swabs will be necessary. Cover wheel, wheel axle and other Brake Shoe soldered on. "Solder In Paste" is too thin. Also be sure a wet swab is on the spring, wetting all every once and a while with an eye dropper until soldering is done.

- 6) Coil springs in this truck was designed for 21 oz. Tender without Trucks on, so there is really spring action, and weight to more wash thru dust and oxides on Rail and wheels, much better than light Tenders. AF Tenders weighs 15 oz. without Trucks, so another 6 oz. at least should be added. This Truck works perfectly with our modern (Berksire) Tender and only have to just screw Truck into Tender Frame.

- 7) To install these on AF Tenders, unsolder wires inside on Bolster Pins. With a 1/8" drill, drill Bolster pin out from bottom of Tender, sometimes drilling at an angle, to drill pin flange that did not normally drill out. Discard these pins. For AF Tenders with one side pick-up wiring, such as our other engines and many others, with a cut-off disc or file clean bottom bulge on bottom of AF Frame. Cut a round disc of steel or brass just under 1/2" diameter and about 1/16" thick, something from the hardware store. Spread "Soldering In Paste" on the just cleaned bottom bulge of the Truck and the 1/16" disc and torch them to pre-tem. Wipe off flux, and put about 4 very small beads of solder 45° of each other and preferably paste flux, and torch the disc to the Tender Frame. Torch much easier than soldering iron. With torch heat "Solder In Paste" slowly at first so solder will not pop off. From inside of Frame, in center of original hole in plate, center punch and drill #50, and tapp 2-56 perfectly perpendicular, and screw Truck in with pick-up wheels on left side, being sure the Bolster Pin sleeve sticks up above the truck enough to give good swivel, but not rock side to side much. Bolster Pin will go into hole on one side, easier than the other. A special screw driver could be made with the shank above the blade ground to a smaller diameter for such Trucks with center wheels.

- 8) Of course one motor wire is grounded to the motor and the other wire to the Tender and soldered any where, using our #214, the wire is not needed as other motor wire goes to this Draw Bar under the Engine. Add additional wire if light in Tender is to be used, to bulb, and ground other bulb terminal to Tender any where.

- 9) For AF Tenders used with the normal unaltered AF engine. Instead of metal plate soldered on, get a hard plastic, fibre board or laminated fibre, clean as above and sand the fibre on one side and sides and inside hole of of Tender Bolster hole. Epoxy this disc on the Bulge, with epoxy added along side of disc down to bulge for better adhesion and into the Tender hole. When Epoxy set, drill and tap as above, install Truck. You might have to use a longer 2-56 screw in the sleeve so that you can make a soldering lug to go on to this screw inside, and solder the wires back on. Use 2 nuts inside preferably with a lock washer between nuts. Probably will have to make and install small washers to go inside of the Tender Bolster screw to get soldering lug enough above Tender floor. (When epoxying on the plate, it is best to make both contacting surfaces as rough as possible.