

# CON-COR

# 4-6-4 HUDSON

## #28 PILOT AND No.5® TENDER COUPLER CONVERSION

1. Disconnect loco and tender, set tender aside. Turn loco over and remove pilot (front) truck assembly by removing long screw just ahead of front driver.
2. Cut out and widen the pilot coupler pocket, so that a No.5® Draft Gear Box can be slipped into the opening. Carefully trim to size by trial and error using sharp hobby knife or file. The draft gear box should just slide in and not be sloppy. Be sure you have aligned box on loco centerline. See Fig.1 for dimensions.
3. Modify No.5® Draft Gear Box according to Fig. 1 and 2. Place #28 Coupler, with Centering Spring on top, into Draft Gear Box and insert into coupler pocket opening, so that front of box is flush with top front of pilot. Double check alignment to center of loco, check height and Trip Pin clearance from pilot. If everything is correct, secure the Draft Gear Box with a plastic compatible cement. Replace front pilot truck.
4. Turn tender over on back and remove rear truck assembly, being careful not to lose screw, spring and metal wiper.
5. Trim opening to fit a No.5® Draft Gear Box in width (5/16") and 21/64" from bottom of coupler/chain bulkhead and 7/32" from top of rear tender floor, see Fig.2.
6. It will be necessary to build up a coupler mounting platform using styrene plastic. First cut a 1/32" thick piece by 1/8" wide and 3/8" long. Glue this piece flat against the inside rear of coupler/chain bulkhead and flush to bottom of tender floor. This piece should slip between a protrusion from the tender coupler mount. The top of this piece of styrene should be 3/64" below the coupler opening, providing a ledge.
7. Cut second piece of 1/32" thick styrene 3/8" wide and 1/2" long and cut a third piece of 1/64" thick styrene to 3/8" wide by 1/2" long. Glue these two pieces together precisely one over the other.
8. Align this assembly to centerline of styrene ledge and glue to tender. You should now have a coupler mounting platform that is flush with the trimmed coupler opening.
9. Locate coupler mounting hole 1/4" from outside edge of coupler/chain bulkhead an exactly on tender centerline. Drill and tap for 2-56 threads. Trim side mounting lugs off of No.5® Draft Gear Box assembly. Sides should be flush. Assemble coupler and install with Kadee® #1706 (2-56 x 1/4") screw.
10. Check for correct coupler height, function, and clearance and make any adjustments necessary.

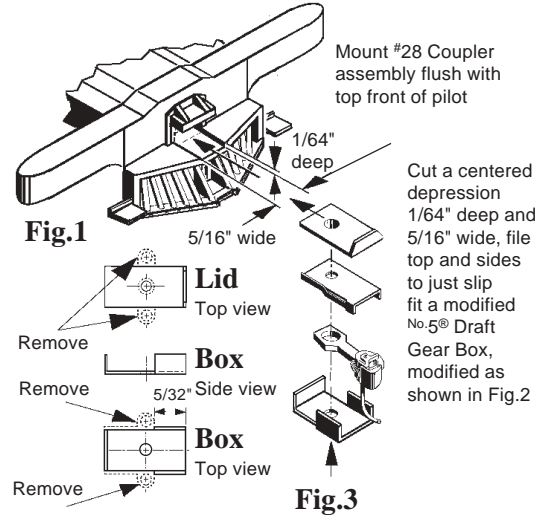


Fig.1

### #28 Pilot Installation

Cut a 3/8" wide by 1/2" long by 3/64" thick coupler mounting pad from styrene sheet. Center pad and glue to styrene ledge and tender. Pad should be flush with coupler pocket opening

Drill and tap for 2-56 threads. Hole must be on centerline and 1/4" from outside edge of bottom of tender

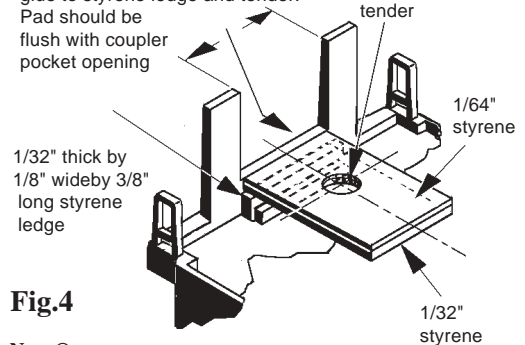


Fig.4

### No.5® Tender Installation