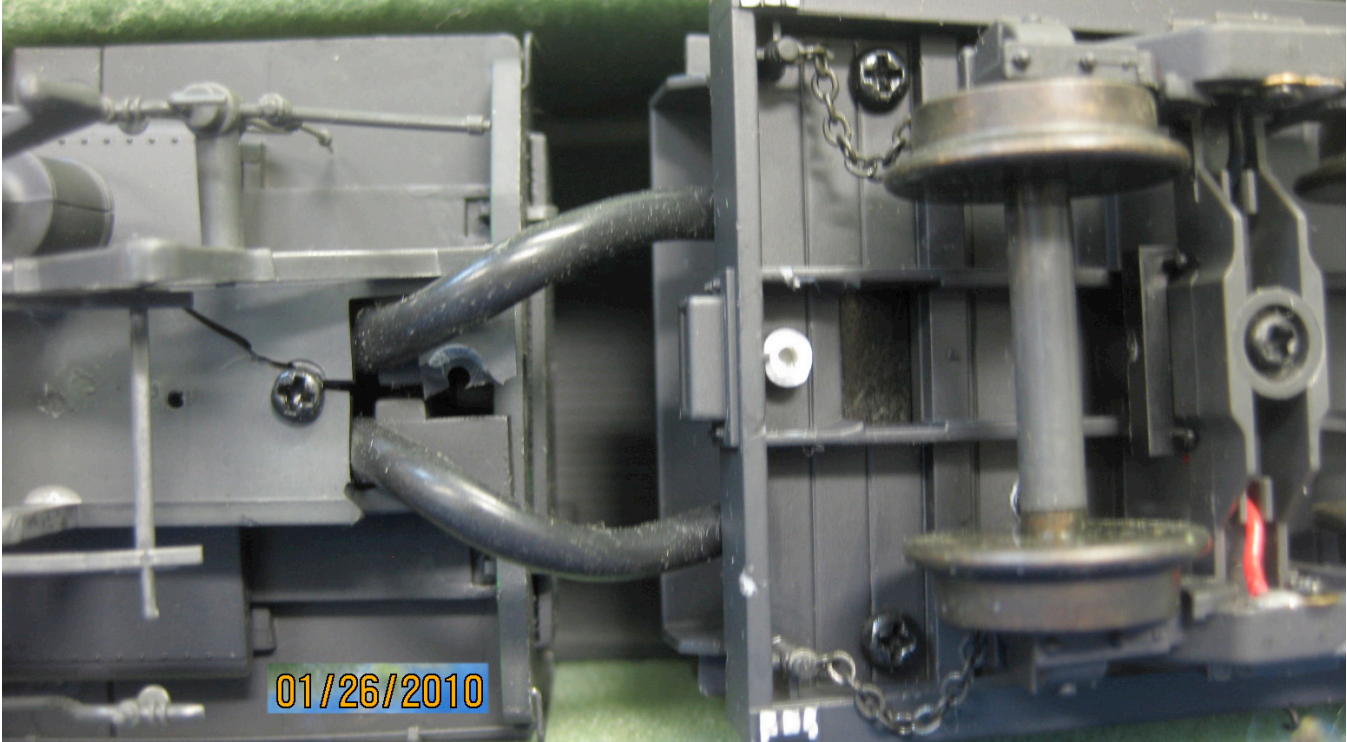


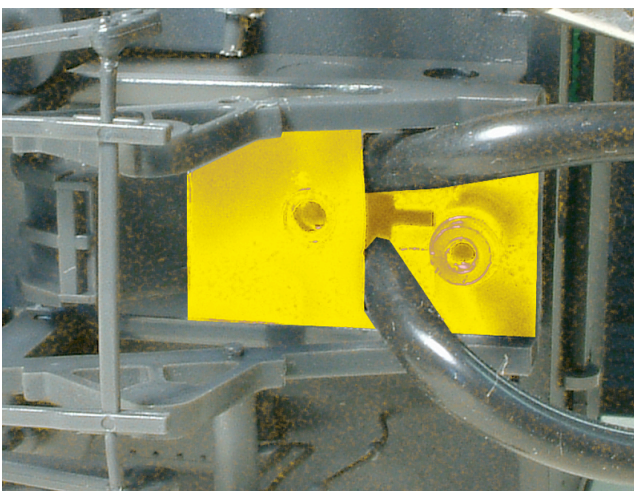
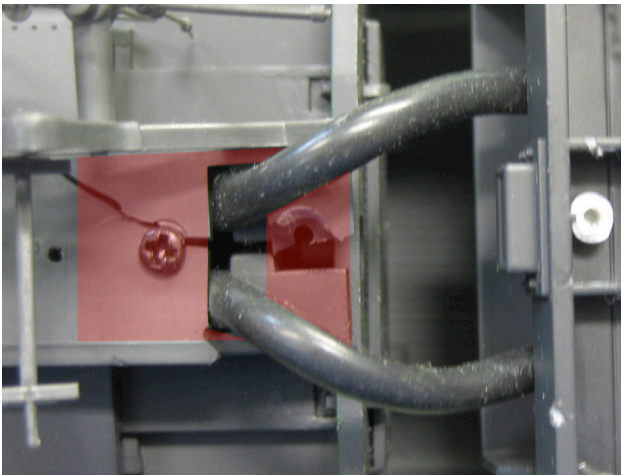
Drawbar Pin Replacement for SHS 2-8-0s

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ver 1.06



We have had several 2-8-0 returned with broken drawbar pins on both the locomotive and tender. The new brass part will be used to deal with the locomotive broken drawbar pin. You will need to modify the locomotive underframe (part 1096-08-01) which is made of grey Delrin . The locomotive underframe has many functions. It covers and hold the drivers to the chassis, holds in place the flexible pcb for the contact pins on drivers 1 & 4, is also the platform holding the pilot truck w/ spring, driver leaf springs and the drawbar pin.

To replace the drawbar pin you need a good cradle to hold the locomotive steady upside down. You can use the bottom foam tray with a hand towel covered with Saran wrap to cushion the locomotive and a #00 Philips head screwdriver.



- Before we start removing the Delrin underframe (part#1096-08), disconnect the tender from the locomotive drawbar that is held by a tender roundhead screw.
- Now remove the tender floor held on with 4 round head screws and lift off the tender floor and unplug the twin wireharness for the main printed circuit board.
- Next, you need to remove the two roundhead screws holding the pilot and centering spring.
- The Delrin underframe is attached with 11 flathead screws and one roundhead screw under the cab.
- By turning the wireharness socket 90°, you can unthread the wireharness from the underframe.
- Using a nibbler tool, knife or flush cutters, slowly remove the red area between the undercab rear frame so that the replacement part fits easily between the frame.
- Thread the wireharness through the brass part and connect to the tender.
- Replace the tender shell to the frame with the 4 screws.
- Attach the underframe and pilot to the locomotive.
- Using the same roundhead screw, attach the brass part.
- The original drawbar screw is a self tap, we tapped the pin to allow ease of replacement.
- Connect the drawbar using the same screws and washer to the drawbar and to the tender.

