

14. Starting with the headlamp, Insert the leads into the holes provided and solder the leads to the board as shown in the following photo. (Photo 12)



Photo 12

15. Next, install the ditch light LEDs. The FX5 and FX6 pads are labeled and located toward the front of the board. The +3.3 pads are for the positive leads. Solder the LEDs to the far side of the pad for each of the four connections (FX5, FX6, and both 3.3 volt pads.) (Diagram 2 and Photo 13)

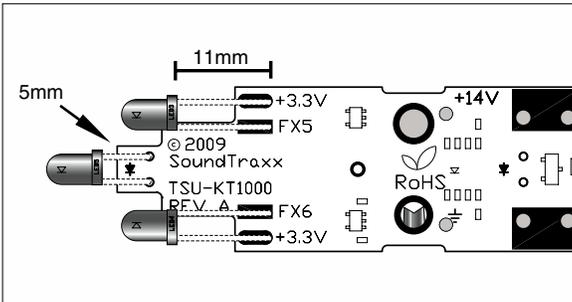


Diagram 2

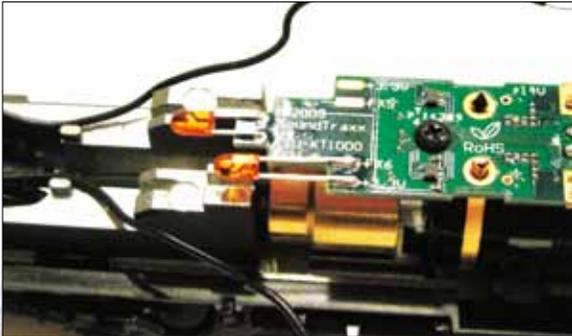


Photo 13

16. Because these LEDs are in such close proximity to each other, some annoying light leakage can occur. Shrinking some 3/32" Shrink Tubing around the LED (leaving the head of the LED exposed) will solve this problem. (Diagram 3 and Photo 14)

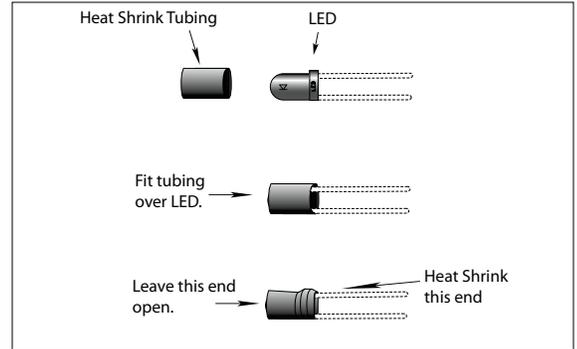


Diagram 3

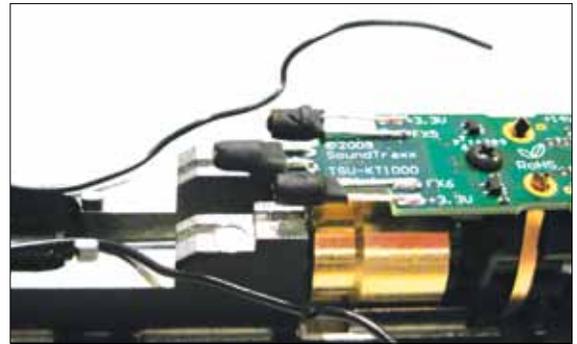


Photo 14

17. Thread the two un-attached black wires up from below and between the ditch light LED leads, then secure the wire under the track power pickup clips at the center of the decoder. (Photos 15 and 16)

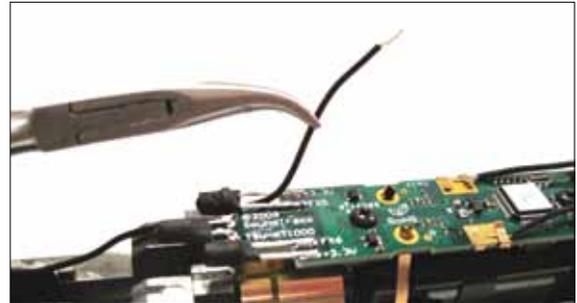


Photo 15

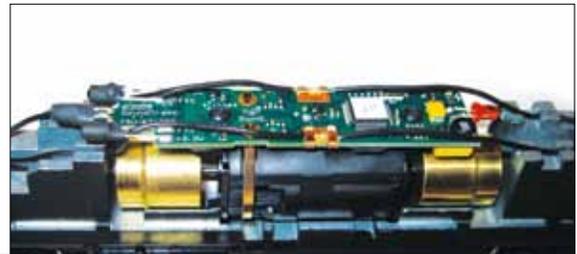


Photo 16

18. To install the speaker, start by removing the two halves of the fuel tank. Gently slip a small flat head screwdriver under the tabs at the center of each end of the fuel tank castings to release these tabs and separate the fuel tank halves. (Photo 17)

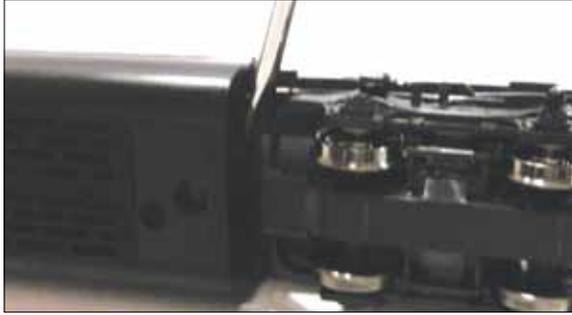


Photo 17

19. Thread the wires from the speaker harness that you connected in Step 6 through a small opening located near the rear of the motor on the left side, from top to bottom. (Photo 18)

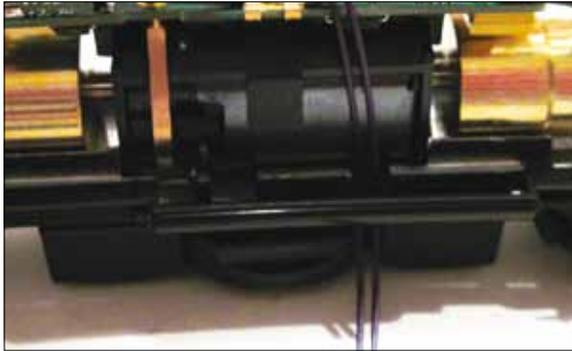


Photo 18

20. Strip a small amount of insulation off the ends of the wires and tin the ends. Then solder the speaker wires to the terminals on the back of the 1" speaker. Since there is only one speaker involved, the polarity is not important. (Photo 19)



Photo 19

21. The SD40-2(mid) has a built-in speaker baffle mounted in the fuel tank. The baffle has several notches around the perimeter – mount the speaker, cone facing away from the engine by pressing it into place and seating the speaker wires in the closest notches. This prevents your speaker wires from being pinched when you close up the fuel tank. Be careful not to press on the cone itself. This should be press fit, but if it appears loose, (vibrations will cause noise) use RTV or aquarium sealant around the edges of the speaker, making sure not to get any on the speaker cone. (Photo 20 and 21)



Photo 20



Photo 21

22. Last, re-assemble the two halves of the fuel tank to complete the speaker installation. Now, simply replace the shell and the couplers and coupler pockets to the model, and you should be ready for the mainline!

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