

The MST Optical Sensor Assembly is used to replace the optical sensors on electrically controlled full height turnstiles.

| <u>Kit Contents:</u> | |
|--|------------|
| Description | Qty |
| MST Optical Sensor Assembly | 1 |
| 10-32 x 3/4" Pan Head Phillips Screw - Stainless Steel | 2 |
| 1/4-20 x 5/8" Socket Head Cap Screw- Black Oxide | 2 |
| #10 Internal Tooth Lock Washer - Zinc | 2 |
| #10 Flat Washer - Zinc | 2 |
| 1/4" Flat Washer - Zinc | 2 |
| 1/4" Split Lock Washer - Zinc | 2 |
| <u>Tools Required for Installation:</u> | |
| 1/8" Allen Wrench | |
| 5/8" Allen Wrench | |
| #2 Phillips Head Screwdriver | |
| Slip Joint Pliers | |

Optical Sensor Assembly Replacement

- 1) Using a 1/8" Allen wrench, remove the top cover of the turnstile.
- 2) Turn OFF the power at the junction box.
- 3) Unplug the optical sensor wiring harness from the turnstile control board [Fig. 1 & 2].

10-7800 Turnstile Control Board

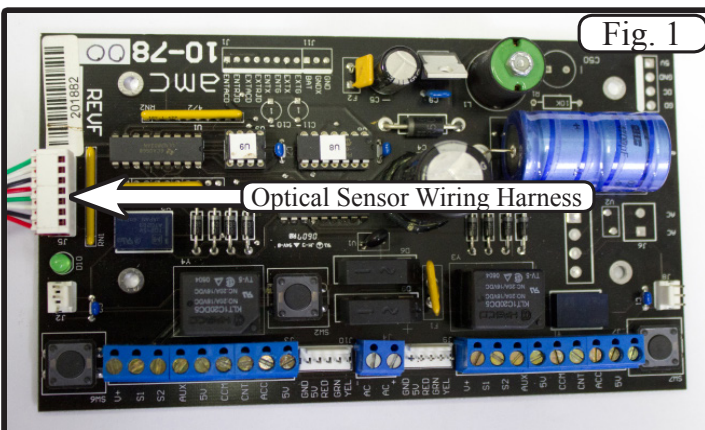


Fig. 1

10-7821 Turnstile Control Board

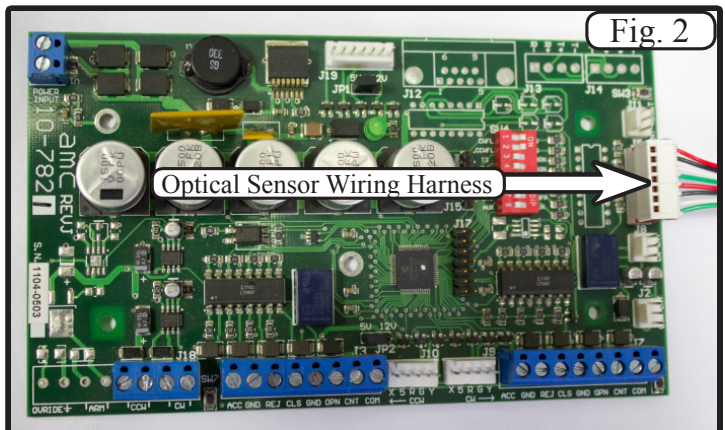
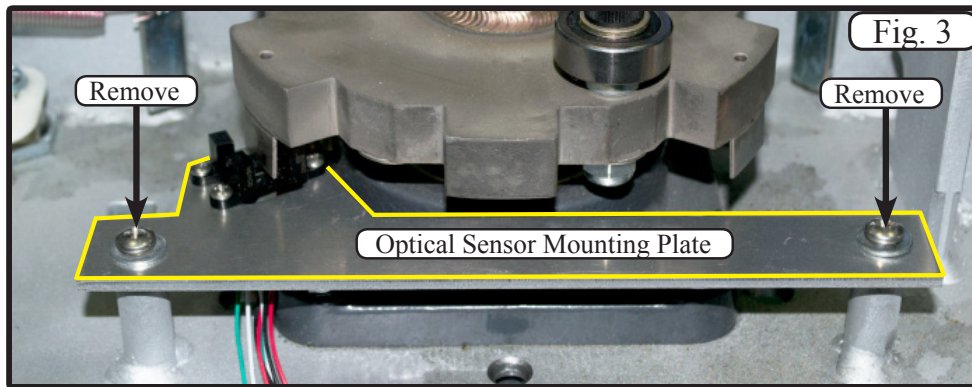


Fig. 2

Optical Sensor Assembly Replacement (Continued)

4) Using a #2 Phillips head screwdriver (or) a 1/4" Allen wrench, remove the (2) screws securing the optical sensor mounting plate and remove it from the mounting posts [Fig 3].

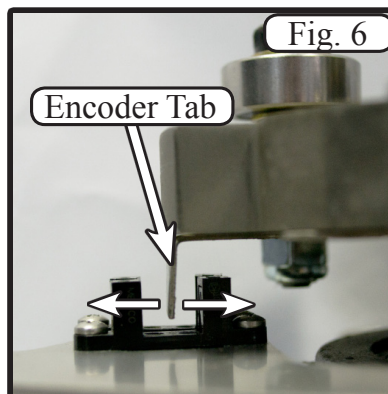
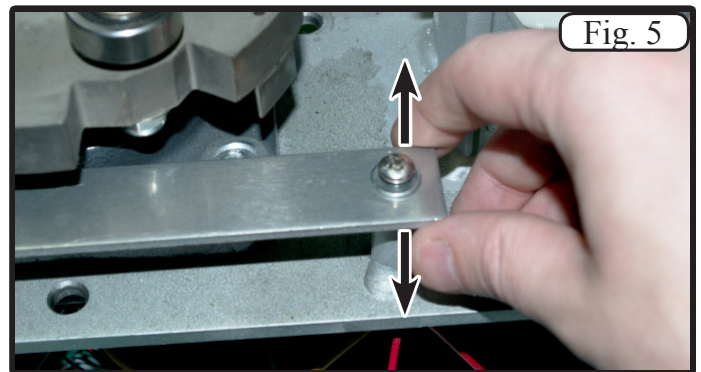
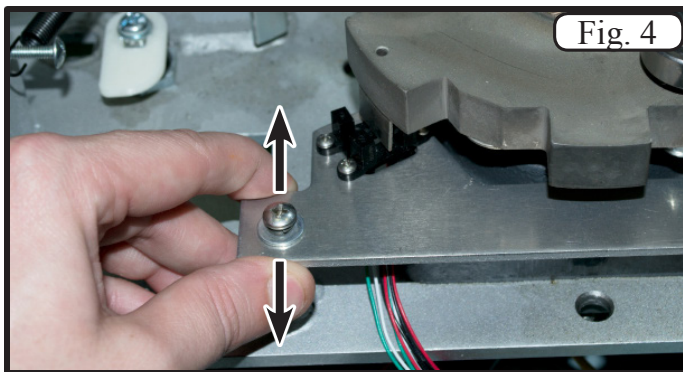


5) Install the new optical sensor mounting plate and secure it using the new hardware included in the kit.

6) Plug the optical sensor wiring harness back into turnstile control board [Fig. 1 & 2].

7) Turn ON the power at the junction box.

8) Activate the turnstile and slowly rotate the arms until the first encoder tab is ready to pass through the optical sensor. Verify that the encoder tab passes through the center of the optical sensor [Fig. 6]. If adjustment is required, use the #2 Phillips head screwdriver to loosen the screws securing the optical sensor mounting plate and adjust the plate as necessary [Fig. 4 & 5]. If any of the other encoder tabs do not pass through the center of the optical sensors, use slip joint pliers to bend them to their correct positions [Fig. 6].



9) Once adjustments have been made, use the #2 Phillips head screwdriver to firmly tighten the screws securing the optical sensor mounting plate.

10) Replace the top cover and secure with bolts using the 1/8" Allen wrench.