

## X77 Tech Tips

SLTS-014 5/2/01

The Local Injection and Detection (LID) system in the X77 is used to provide active core to core fiber alignment. Core aligning splicers with the LID system provide the lowest splice losses in the industry. It is important that the LID system remain clean for the X77 to work properly.

### Necessary Tools:

- Cotton swabs
- Water
- Replacement kit 2813003-01

### Precautions



**CAUTION:** Never use solvents to clean the silicone plate.

**CAUTION:** Never clean the lid system with any metal or hard surfaces as damage may occur.

**CAUTION:** Never use compressed air to clean the LID system.

**CAUTION:** The X77 uses a dry LID system and does not require index matching gel. Adding index matching gel to the LID system may adversely affect the performance of the splicer.

### Cleaning or Replacing the Disk

1. Disconnect the splicer from all power sources (Figure 1).
2. Open the Lid System Flaps.
3. Use a dry cotton swab to gently clean the clear silicone plates in the lid system. If stubborn debris is present use a drop of water on the cotton swab (Figure 2).
5. Use a dry cotton swab to clean the mandrels in the LID system flaps (Figure 2).

### Replacing the Transmitter and Receiver Silicone Plates

If damaged, the transmitter and receiver silicone plates may be easily replaced in the field. To replace the silicone plates:

1. Remove the four screws on each side of the LID system.

**Note:** Older X77 fusion splicers may also have two screws on each side of the LID system plastic mandrels that need to be removed.

2. Gently lift off the silicone plate assemblies (Figure 3).
3. Install the transmitter and receiver silicone assemblies from the replacement kit.
4. Re-install the screws that were removed in step 1.

## Cleaning the LID System® Unit in X77 Fusion Splicers

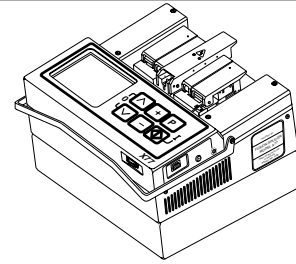


Figure 1

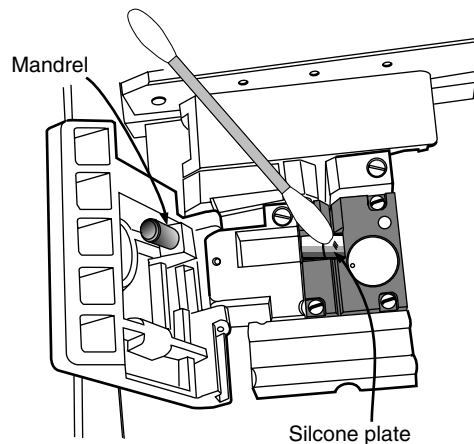


Figure 2

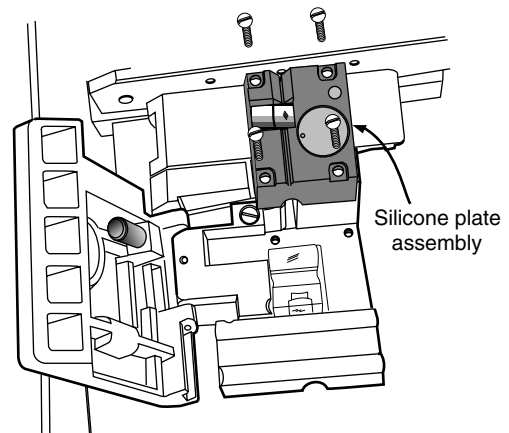


Figure 3

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