

910FS Fusion Splicer Cleaning VER 1.0



Precautions when cleaning the 910FS and the 910CL

1. Turn off splicer.
2. Use only lint free cotton swabs.
3. Use only 99% pure isopropyl alcohol or an approved substitute.
4. Do not touch the electrodes.
5. Never use compressed air.
6. Use the cleaning brush only to clean debris from general working area, never on the lenses, V-grooves or mirrors.

Cleaning V-grooves (Recommended Daily)

Refer to Figure 1.

Clean the bottom of the V-groove with an isopropyl alcohol impregnated lint free cotton swab. Remove excess alcohol from the V-groove with a clean dry lint free cotton swab.

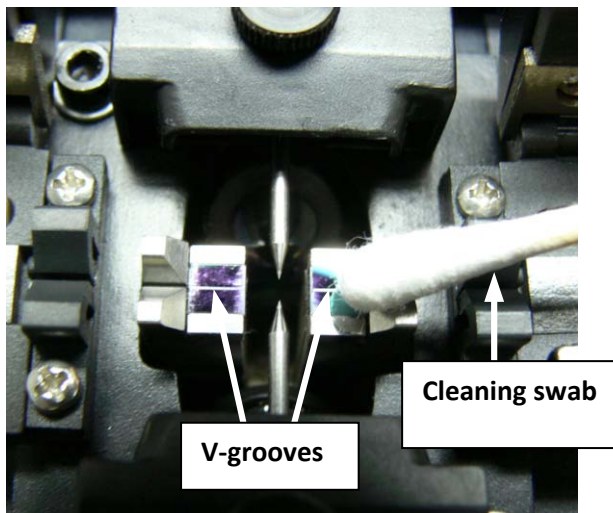


Figure 1

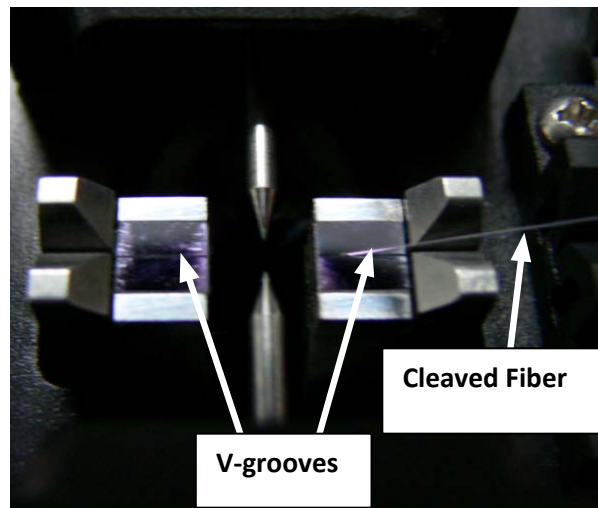


Figure 2

If the contaminants in the V-groove cannot be removed with an alcohol-impregnated lint free cotton swab, use a cleaved fiber end-face to dislodge contaminants from the bottom of the V-groove. Refer to Figure 2. Repeat cleaning the V-grooves as in Figure 1.

Cleaning Fiber Clamps (Recommended Daily)

Refer to Figure 3.

If contaminants are present on the clamps, proper clamping may not occur, resulting in poor quality

splices. The fiber clamps should be frequently inspected and periodically cleaned during normal operation. To clean the fiber clamps do the following:

Clean the surface of the clamps with an alcohol-impregnated lint free cotton swab. Remove excess alcohol from the clamps with a clean dry lint free cotton swab.

Cleaning Wind Protector Mirrors (Recommended Daily)

Refer to Figure 3.

If the wind protector mirrors become dirty, the fiber core position may be incorrect due to decreased optical path clarity, resulting in higher splice loss. To clean the mirror's, do the following.

- a) Clean the mirror surface with an alcohol-impregnated thin lint free cotton swab. Remove excess alcohol from the mirror surface with a clean, dry lint free cotton swab.
- b) Mirror should look clean with no streaks or smudges.

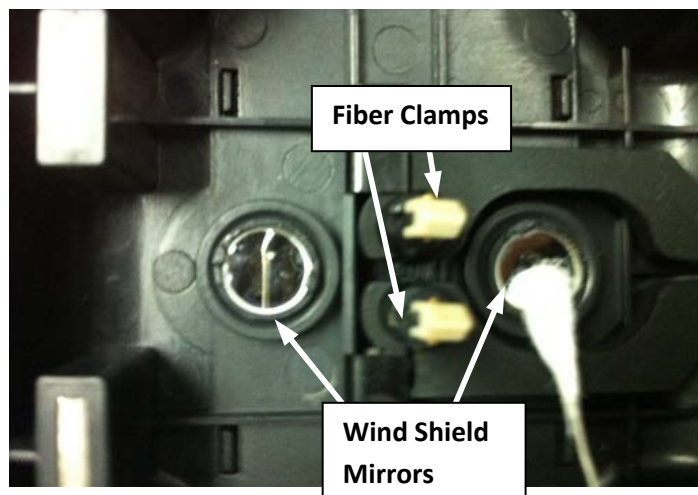


Figure 3

Cleaning Objective Lenses (Recommended Weekly)

Refer to Figure 4

If the objective lens's surface becomes dirty, normal observation of the core position may be incorrect, resulting in higher splice loss or poor splicer operation. Therefore, clean both of them at regular intervals. Otherwise, dirt may accumulate and become impossible to remove. To clean the objective lenses do the following:

- a) Before cleaning the objective lenses, always turn off the splicer.
- b) Gently clean the lenses' (X-axis and Y-axis) surface with a dry lint free cotton swab. Using the swab, start at the center of the lens and move the swab in a circular motion until you spiral out to the edge of the lens surface.
- c) The lens surface should be clean and free of streaks or smudges.

- d) Turn on the power and make sure no smudges or streaks are visible on the monitor screen. Press X/Y key to change the screen and check the state of the lens surface on both the X- and Y-screens.

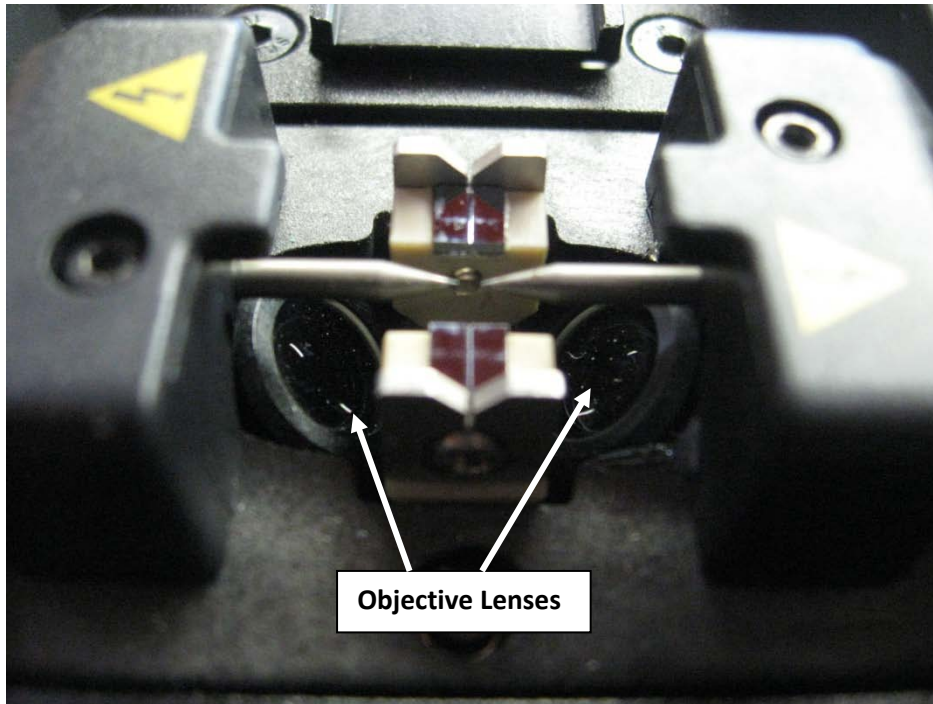


Figure 4

NOTE:

- Do not touch the electrodes when cleaning.
- It is recommended to clean the objective lenses when replacing the electrodes.

General Fusion Splicer Cleaning (Recommended Daily)

- a) Use the cleaning brush only to clean debris from general working area, never on the lenses, V-grooves or mirrors.
- b) Periodically clean the fiber adapters with isopropyl alcohol and a lint free cotton swab. Never touch the fiber clamping area of the fiber adapters.

Cleaning Fiber Cleaver 910CL (Recommended Daily)

Refer to Figure 5.

If the circular blade or clamp pads of the fiber cleaver become contaminated, the cleaving quality could degrade. This may lead to fiber surface or end-face contamination, resulting in higher splice loss. Clean the circular cleaving blade and clamp pads with a lint free cotton swab soaked with isopropyl alcohol.

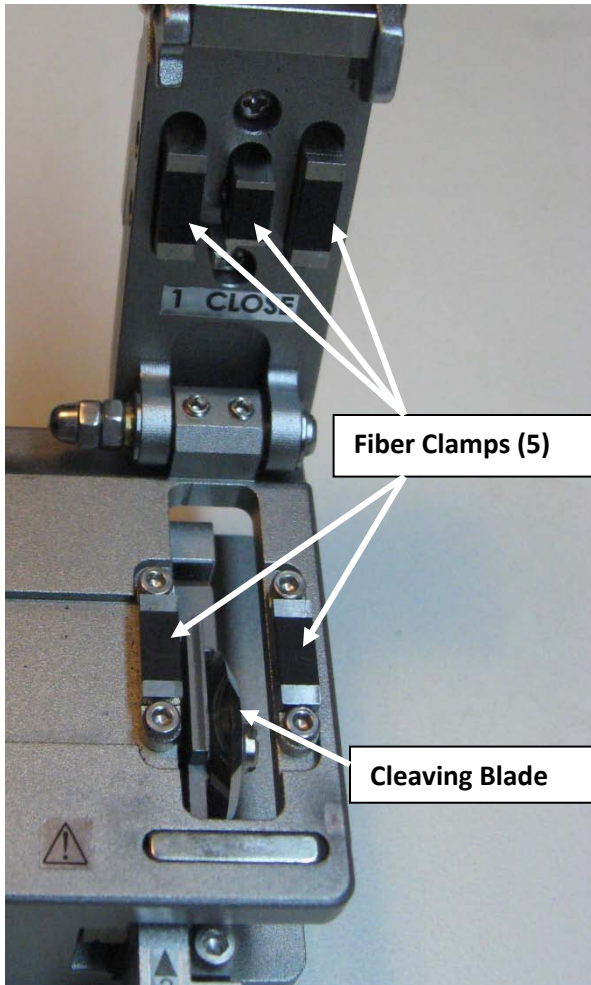


Figure 5