



Fret OptiX LED Position Marker Installation Guide US Patent # 5,373,768

WARNING: DO NOT INSTALL ON NITROCELLULOSE FINISHES!

Fretlord is not liable for paint finishes damage resulting from failure to heed this warning!
CAUTION: AVOID SHARP BENDS! OPTIC STRAND IS FRAGILE AT LIGHT POINTS UNDER MOUNTING FILM. AVOID APPLYING EXCESSIVE PRESSURE TO THE LIGHT POINTS ALONG THE FIBER OPTIC PRIOR TO INSTALLATION!!
WARNING: PULLING OPTIC OFF NECK TO RE-ALIGN CAN RESULT IN DAMAGE TO THE OPTIC. FOLLOW THESE INSTRUCTIONS CAREFULLY!

The optic inside the clear mounting film is repositionable and should be adjusted under film if needed prior to installation.

Plug the LED module onto the optic and turn in on in a dim lit room, stretch the optic end to end. Lightly massage the optic under the top layer of film into straight end to end position.

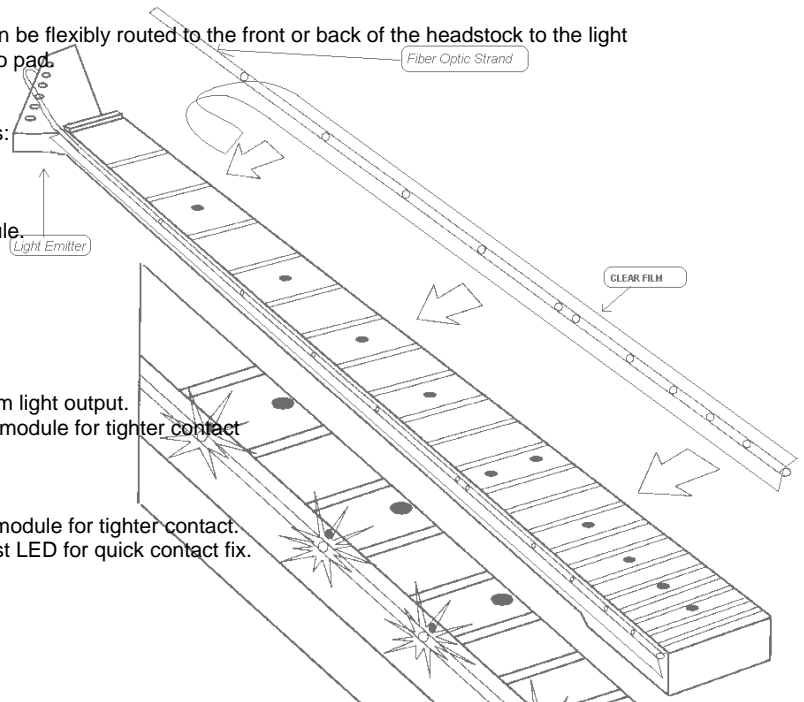
Seal the optic into position by lightly squeezing the film between you fingers and pressing along the length of film.

- Fiber OptiX Strand
- Clear Peel & Stick Mounting Film
- Light emitter w/ batteries & velcro

1. Clean along the binding of your guitar/bass neck free of dirt, oils and waxes.
2. Place your guitar/bass on a flat surface with sufficient room to work.
3. Insert LED emitter onto open end of Fret Optix strand.
4. Hold from emitter end at the top & pull mounting film backing off slowly and straight down toward the ground to avoid sharp bends in the optic strand.
5. In a dim lit room, power up to see the light points. Align the optical points of light on the optic strand with your position markers along the top side surface of the neck.
6. After alignment, apply the top edge of the optic mounting film on the neck under the fret board's face front surface. Starting at both ends, press down along the top side length of the tape every six (6) fret spaces apart to tack the film down.
7. Press the FretOptiX strand between your fingers along each side of the optic strand. Start at the headstock (lowest fret) and work towards the highest fret. Work tape in smoothly to avoid wrinkles and bubbles. If needed, trim the film where the film meets the body to allow proper adhesion along the higher fret markers. Stick the remaining length of the film to the neck up to the highest fret and wrap any extra optic strand that extends past the 22nd around the front of the fret board or cut to size if desired.
8. Trim any extra mounting film that may extend past the fret board surface & past the nut.
9. The optic strand feeds past the nut and can be flexibly routed to the front or back of the headstock to the light emitter which is mounted with the Velcro pad.

Trouble Shooting Fret OptiX LED Color Modules:

1. No light?
 -----Check switch or broken optic.
 -----Adjust the battery lead in the LED module.
 -----Dead Batteries?
2. Dim light?
 -----Low batteries?
 -----Check for blocked light emitter output?
 -----Incomplete light emitter insertion?
 -----Tip end of optic is clean cut for maximum light output.
 -----Adjust the battery leads inside the LED module for tighter contact
3. Flickering light.
 ----- Battery cover not completely closed.
 ----- Adjust the battery leads inside the LED module for tighter contact.
 ----- With rubber sleeve attached, slightly twist LED for quick contact fix.





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Re-installation Guide for FRET LORD'S Fret OptiX Fiber Optic

This process is only for re-installation of the Fret OptiX Fiber Optic onto your instrument.

- (Use Extreme Caution) Avoid sharp bending, optic strand is fragile at light points!
 - Scotch CrystalClear tape (Not Included)
 - Light emitter w/ velcro
1. Carefully remove fiber optic from exiting mounting film by peeling apart the two layers.
 2. Clean the top side surface of your guitar/bass neck free of dirt, oils and waxes.
 3. Pull a length of Crystal Clear tape longer than your neck and place it sticky side up on a flat, clean surface; flip the ends, pull it tight, and stick the ends to the flat surface.
 4. Start at the middle and slowly lay the fiber optic directly in the center along the stretched length of the tape. Next, push down on the optic so it sticks to the tape.
 5. Place your guitar/bass on a flat surface with sufficient room to work in. Illuminate & position the dots along the fiber optic to line up with the position markers along the top side surface of the neck. *Note:* If dots do not align properly, adjust accordingly.
 6. After alignment, apply the taped optic onto the neck slightly under the position markers. Leave enough tape on both sides of the optic to ensure proper adhesion to the neck. Starting at both ends & press down along the top side length of the tape, six (6) fret spaces apart. Repeat adhesion steps on the bottom side of the optic.
 7. Pressing firmly, run your fingers along each side of the taped optic. Start at the headstock (lowest fret) and work towards the highest fret. Work tape in smoothly to avoid wrinkles and bubbles. Cut a slice in the tape across the bottom side where the tape meets the body to allow proper adhesion. Stick the remaining length of the tape to the neck up to the highest fret and snap off any extra optic rod that extends past the highest fret.
 8. Cut a slice into the tape that extends past the fret board surface. Pull the tape at a slight angle down the fret board. This will remove the excess tape that extends past the fret board surface.
 9. Stick tape up to the nut. Trim the tape where needed. The optic must extend past the nut to allow routing to the light emitter attached to the back of the headstock surface. Fully insert the fiber optic into the light emitter.