

# Frame Repair Workshop

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# Screws

- Find type, size and length to fit  
nosepad, eyewire or temple screw  
threadseeker, tap n lock, nut and bolt
- Coating on screws from various suppliers, keep screws from backing out.
- Don't overtighten screws. "tight is tight, too tight is broken"
- Placing frame on flat service makes it easier.

# Parts of the Frame

Frame Front

Endpiece

Temples: skull, library, cable

Temple hinge

Nose Pad

Nose pad arm

What helps hold it together: screw, nylon cords, liners,  
compression mounts(bushings)

# Replacing Nylon Cord

- Remove old cord and any pieces stuck in holes in the eyewire.
- Thread end of new cord in eyewire.
- Insert lens.
- Guide the new cord into groove of lens.
- Make a mark on the cord with a marker between the two holes on the eyewire of the opposite side .
- Cut the cord at this mark. This gives you the length needed.
- Remove lens and thread nylon cord.

# Replacing Liner

Grooved rimless frames have liners that fit into the top eyewire. If damaged, need to be replaced in order for lens to fit snugly into the frame.

Remove the lens first.

Remove the nylon cord also.

Slide the liner out of the top groove.

Slide a new figure 8 liner into the groove.

Takes some time and patience to guide it along so it doesn't slip out of the groove.

# Removing Broken Screws

Use the appropriate sized extractor blade.

Place on top of broken edge and with pressure, turn counterclockwise.

Works well with a jagged edge.

However, if there is a clean break without an edge to grasp, you may have to punch it out.

Line up the eyewire, then bring the lever down. This will force the screw out, but not damage the eyewire. If unable to find a screw that fits. A nut and bolt can be used.

Another option is to drill the broken screw out.

# Nut and Bolt

A nut and bolt is used when a screw cannot be found that holds eyewire closed.

Place the nut in nutdriver. Place nut driver in vise facing up.

Insert bolt through eyewire.

Guide bolt onto nut and begin to tighten. Insert lens when eyewire is almost closed. Finish tightening until secure.

Remove from vise and snip excess from bolt.

Peen end of screw to eliminate rough edge.

# Loose Lens in Plastic Frame

Heat eyewire.

Insert lens.

Hold lens in place and run cold water over frame for several minutes.

Continue to hold frame for a minute or two after removing from water.

Let frame adjust to room temperature.

Clean and return to patient.

# Repair of Broken Plastic Frame

## Front

Gives patient a quick fix until new glasses are ready and keep as a spare pair.

Drill holes through frame front.

Use metal wire to thread through holes.

Finish on outside of frame to avoid rough edge touching patients face. File down rough edge as much as possible.

## The Hot Fingers II

Replace or repair embedded hinges. It is a heat controlled tool with spring action tongs. Heat softens plastic to remove and replace hinges.

# Replacing Nose Pads

Use appropriate size nose pad.

Question silicone or other allergies.

Some types have left or right side. Flat side is next to eyewire.

Most replacement pads are shaped for either side and can be used for either push-on or screw type.

For push-on entire pad is inserted and the hole on the nosepad lines up with small indentation on nosepad arm.

For screw on pad. Proceed as usual. Extra piece will be on outside of nosepad arm and can be trimmed off if desired.

# Shorten Temples

Determine length needed. temple cover.

Cut to length needed.

Replace temple cover.

Can't be used on plastic frames or some metal temples.

There needs to be long enough left after cutting to slide temple tip back on and be secure.

# Lengthen Temples

If a longer temple is not available from the manufacturer.

Temple Extenders can be purchased.

Different core sizes available, to slide on more easily.

Remove existing tip and replace with the longer one.

# Cable Temples

Measure length needed for patient.

Cut existing temple.

Slide cable tip over temple.

# Replacing Compression Mounts

## Remove old compression mount

Use snippers to cut plastic on inside of lens and plastic on prongs. Use push out tool to remove remaining plastic. Metal prongs need to be clear and intact before placing new mount. Holes also must be clear. If a prong is missing or broken, new mount will not hold securely. Endpiece or bridge would need to be replaced.

## Applying new compression mount

Solid part will be placed on the inside of the lens. Make sure lens is intact, not broken or cracked.

Trim the sleeve on the outside of the lens. Leave 1mm. Open