

ENNIS-FLINT / STIMSONITE® MODEL C40 REFLECTOR REPLACEMENT PROCEDURE

This procedure outlines the recommended steps for the replacement of the reflective element of the Ennis- Flint Stimsonite Lens Cradle Model 201 snowplowable raised pavement markers.

Note: Air temperature shall be 40°F (7C) or higher during reflector replacement or as recommended per the adhesive manufacturer.

MATERIALS:

- Replacement Retroreflector: Stimsonite Model C40 (color and type as required)
- Reflector Adhesive: Liquid Nails LNP-602/LN-602 High VOC, LNP-701/LN-701 Low VOC, LNP-901/LN-901 High VOC, LNP-950/LN-950 Low VOC, or LNP-2000/LN-2000 Low VOC depending on your local air quality regulations and dry time requirements
- Hammer, pry bar, chisel, or air chisel
- Wire Cup Brush (3-4" Dia.; Braided)
- Caulking gun: As required to apply the reflector adhesive

REPLACEMENT PROCEDURE:

Remove reflector —

Insert the reflector removal tool of your choice tool at the base of the C40 adjacent to the Lens Cradle tabs. Pry the reflector up and remove.

If using an air chisel, then utilize the lowest pressure setting and then gently increase as needed.

NOTE: WEAR SAFETY GLASSES

Clean pocket —

Remove any remaining adhesive, butyl pad, dirt, rust and other contaminants from the reflector pocket using a pneumatic or electric wire brush.

NOTE: The butyl pad and liquid nails should be removed down to the polycarbonate pocket. The pocket's grooves may contain some dry and hardened liquid nails and/or butyl remnants. However, the pocket should not contain any loose remnants.

Apply adhesive —

Peel the release paper from the back of a new C40 reflector. Apply one bead (approximately 3/8" wide) of reflector adhesive lengthwise on the center of the butyl tape. Lens exposure to excessive adhesive may result in damage to the lens and diminished reflectivity.

Install reflector —

Immediately place the new reflector into the casting pocket. Apply foot pressure (approximately 150 lbs.) for 1 – 3 seconds to extrude a small amount of adhesive around the reflector edge.

NOTE: Proper adhesive coverage (90 per cent of bond area) can be checked by prying up the new reflector, inspecting visually, and then re-installing reflector.

NOTE: Do not allow lens with adhesive to touch exposed skin.

The reflector replacement may be performed either as a lane closure or moving operation. Please consult the adhesive manufacturer for cure times in different environmental conditions.