



# Screw Type Injector Instructions

## PRODUCT DESCRIPTION

Screw type, stainless steel, aluminum or plastic construction designed to be used with a variety of Delta Kits bridge assemblies. The three components of this injector that will be mentioned throughout these instructions are the plunger (male part), the cylinder (female part) and the injection molded end seal.

## OPERATION

Below are the basic steps of operation for the Delta Kits Screw Type Injector.

- 1) Remove the plunger, thread the cylinder into your Delta Kits bridge assembly and attach to the windshield in accordance with the instructions included with your Delta Kits bridge.
- 2) Load resin into the end seal through the top of the cylinder with a syringe or pipette (eye dropper). Important: Be sure the tip of the syringe or pipette is inserted to the top of the end seal before loading the seal. Measure resin prior to loading the injector. The resin must completely fill the end seal. Failure to properly load the cylinder may result in unsatisfactory repairs.
- 3) Initial pressure cycle: Screw the plunger into the cylinder. As the tip of the plunger enters the end seal you will notice increased resistance. Continue screwing the plunger into the cylinder until you begin to see resin flowing into the break and there is a slight outward expansion in the outer perimeter of the end seal. Stop if you begin to see resin seeping from under the end seal and always maintain a minimum clearance of 1/8" or 3mm between the bottom of the plunger knob and the top of the cylinder knob. Allow the plunger to remain in the pressure cycle for 5 minutes or until the break is at least 90% filled. Important: Too little pressure or too little resin will result in air remaining in the damage. Failure to maintain the minimum specified clearance between the plunger and cylinder knobs will result in a leaky end seal and a loss of pressure.
- 4) Initial vacuum cycle: Slowly unscrew the plunger until you see bubbles rising up through the resin and into the injector. Allow 30 seconds, or until you can no longer see air movement in the damage. Continue unscrewing the injector until you feel significantly less resistance, indicating that the tip of the plunger has cleared the top of the end seal allowing trapped air to escape. At this stage the clearance between the two knobs will be approximately 1/4" or 6mm.
- 5) Repeat steps 3 & 4 until the damage is filled with resin and no visible air remains. Note: After the initial pressure cycle only 2 minutes are required for each additional pressure cycle but vacuum cycles should always be 30 seconds or until there is no more air movement in the damage. Typically a minimum of 3 pressure and 2 vacuum cycles provide the best results.
- 6) Leaving the plunger in the pressure cycle, loosen the center knob on the bridge and swivel off the break for closer inspection. When satisfied the damage is properly filled, remove the bridge from glass, immediately apply pit resin, cover and cure per Delta Kits recommendations.
- 7) Remove the plunger from the cylinder and clean thoroughly. (See cleaning instructions below).

## MAINTENANCE

### Service

If cleaned and stored properly your Delta Kits injector will provide years of trouble free service. Contact Delta Kits Customer Service if the injector is not functioning properly.

### Cleaning

Separate the plunger from the injector body and rinse both parts in **denatured** alcohol for 30 seconds. Blow off alcohol residue with compressed air.

### Storage

Always store the plunger and injector separately in your Delta Kits foam fitted tool box with the lid closed.

## WARNING

Failure to follow proper maintenance procedures may damage the injector or glass and void the limited lifetime warranty.