



13100 Vacuum Cup Instructions

SPECIFICATIONS

Product Description

Vacuum-attaching tools for securing Delta Kits injection bridges to glass surfaces. Spring-balanced pump maintains consistent vacuum level, and red line on plunger warns user of decrease in vacuum level.

Nominal Cup Size

Load

Capacity

3" (77mm) diameter

15 lbs (6kg)

Environmental Conditions

Use on clean, relatively smooth, nonporous surfaces; in temperatures from 0° to 120° Fahrenheit (-18° to 49° Celsius). The red-line indicator may not perform reliably at elevations above 5000 feet (1524 meters). Moisture or contaminants can reduce the cup's ability to hold.

OPERATION

To Attach

1. Clean the glass and, if needed, the face of the cup (see Cleaning), being careful not to contaminate the damaged area of the glass.
2. Position the cup so the red line will be visible. The red line should not appear when the cup is attached to the glass.
3. Pump the plunger until the cup attaches completely and the red line is hidden. Applying slight downward pressure on the front of the injection bridge assembly will help the cup seal faster and more evenly.
4. Check the plunger frequently to make sure the cup remains securely attached. If the red line appears, pump the plunger until the red line is hidden again (see WARNINGS).
5. To remove from glass, squeeze the side tabs on the cup together.

MAINTENANCE

Service

Inspect and Maintain the Cup.

1. First, clean the cup surface according to the directions (See Cleaning).
2. Use a 600 grit or finer sandpaper to remove any glaze that's built up on the edge of the rubber cup. Lay the sandpaper on a flat surface and set the cup face down on top of it. Rotate the cup left and right to gently sand the edge of the cup, keeping the cup

and sandpaper flat at all times.

3. Inspect the cup for damage. Inspect the rubber carefully and replace it if there are any cuts, tears or other damage to the cup.
4. Check the air filter (SCF101). Make sure the cup's air filter is in place. If not, discontinue use until the filter is replaced.

Inspect the Vacuum Pump Filter and Seal.

1. Remove the plastic plunger on the pump (TLAP) by pulling it straight out of the plastic cylinder and check to see if there are any cuts, tears, or other damage to the seal at the end of the plunger.
2. Every 200 repairs inspect the seal in the pump to see if it needs lubricant. If so, apply a thin layer of a non-petroleum based lubricant (LUB100).
3. Check to see that the plastic pump is clean and free from obstruction. If there are any cracks in the plastic or damage to the plunger seal, the pump (TLAP) must be replaced.
4. Check to see that there are no cracks in the plastic pump. Use a magnifying glass and pay particular attention to the area around the nipple that fits into the rubber cup.

Cleaning

1. Remove the air filter from the face of the cup.
2. Scrub the cup face, using soapy water. Do not use glass cleaner or alcohol. CAUTION: To prevent liquid from contaminating the pump, remove the cup before cleaning it.
3. Rinse all residues from the cup face.
4. Allow the cup to dry and reinstall the air filter.

Storage

Store in your Delta Kits foam fitted tool box to protect the cup face from damage.

(See opposite side for Warnings)

WARNINGS

Failure to observe WARNINGS may damage the cup, the vehicle to which it is attached, or the user and may void warranty.

- Do not use the cup with loads that exceed the load capacity.
- Do not use the cup to support a person.
- Do not use the cup to support loads which could injure people if the cup disengages unexpectedly.
- Do not place the cup face against surfaces which could damage the sealing edge.
- Avoid conditions that could cause the cup to slip or to disengage prematurely, such as: contaminants, cuts or scratches in the cup face or mounting surface; applying the cup to porous materials, or applying pressure against the cup edge.
- Do not use the cup when the red line is visible. If the red line reappears frequently, discontinue use and see Service.
- Do not allow anything to interfere with free movement of the plunger while the cup is attached.
- Do not touch any release tab while using the cup.
- Do not leave the cup in use and unattended.
- Do not use solvents, gasoline, alcohol, glass cleaner, or other harsh chemicals to clean the cup. Use soapy water.
- Load capacities are calculated for static loads without any leverage applied to the cup; additional stresses can decrease the cup's effective load capacity.