

# Installation

## PowerGrip™ SB Clamps

Stop cold water leaks with a unique, easy-to-install device that replaces conventional hose clamps in vehicle cooling system applications. The PowerGrip SB clamp is made from heat shrinkable thermoplastic material that provides a dynamic seal. No need for maintenance. Unlike conventional clamps, this clamp never needs re-tightening. What's more, they are completely resistant to all automotive fluids.

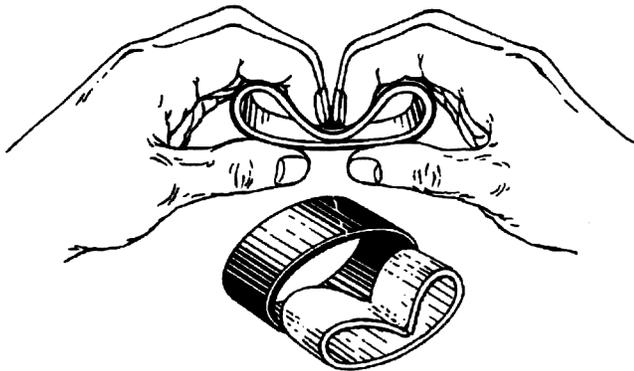
PowerGrip SB clamps are available for hoses  $\frac{3}{8}$ " I.D. through  $3\frac{1}{2}$ " I.D. For best performance, be sure to select the recommended band size for the closest fit.

The special cardboard brace prevents the clamp from shrinking when exposed to heat. Do not remove the brace until you are ready to install the clamp.



### Installation Instructions

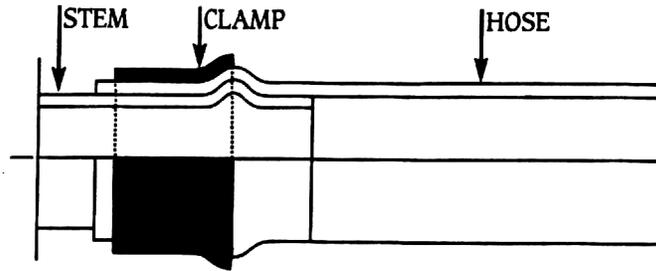
1. Be sure vehicle engine is turned off and has cooled down.
2. Drain coolant.
3. Remove old hoses(s).
4. Clean metal stems with wire brush.



5. Remove clamp from brace by squeezing, then folding the brace in half and removing it,
6. Place clamps over each end of new hose.



7. Position hose over fitting



8. Slide clamp over top of fitting bead. PowerGrip SB clamps have a wider sealing surface than conventional clamps and can be positioned over a wider area including the bead without causing leaks.

**IMPORTANT:** Be sure to position so the print on clamp is facing up and in full view.

9. Apply heat as follows:
  - Use standard heat gun with setting on high
  - Do not use open flame to apply heat
  - Follow heat gun manufacturer's safety procedures
  - Do not apply heat to one spot too long. Move gun continuously.
  - Move heat gun continuously around as much of the clamps's surface as possible – 1/3 of the surface minimum.

**CAUTION:** Although PowerGrip SB clamps are very durable, too much heat can melt them.

- Continue until shrinking is complete (Printed information on the clamp will turn gray when enough heat has been applied.)
  - Remove heat source
10. Check connections to be sure a good seal was made by trying to turn the hose. Hose and clamps should not turn when using reasonable torque.
  11. Replace coolant
  12. Start engine and check for leaks. If leaks appear, apply more heat to clamp.

#### Removing PowerGrip SB Clamps

Remove clamps with the specially designed heavy duty SB clamp removal tool, or melt the band with a soldering iron. Use of any other cutting device could damage the hose.

**IDEAL Stant**