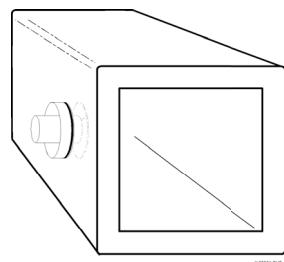
**Figure 1. Plenum Support****PATCHING**

Accidental punctures or tears in the facing should be repaired to minimize leakage and provide a neat appearance.

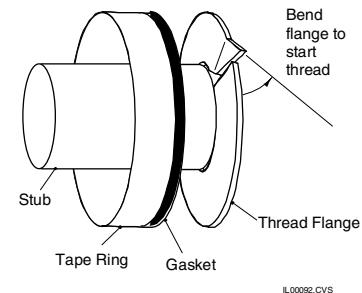
If the damaged area is small, repair with approved closure system above. Where larger areas of the facing have been damaged, remove the section of damaged duct. Replace with a new duct, using lap joints at both ends.

PLENUM TAKEOFF INSTALLATION

Plenum Takeoff Installation. Position the plenum takeoff so that the least amount of stress is applied to the connection and the duct is as straight as possible, see Figure 2 for takeoff placement.

**Figure 2. Plenum Takeoff Location****For 1-inch (25 mm) fiberglass plenum:**

1. Use a UPC-55 hole-cutter ("cookie" cutter) to make a 2-inch hole in the plenum.
2. Cut a $\frac{1}{2}$ -inch (13 mm) slit in the FSK plenum jacket.
3. Bend the starting edge of the spin-in (UPC-23B) takeoff thread flange as shown in Figure 3. Then twist the spin-in into the hole. Be sure that the bottom flange is fully engaged on the inside of the plenum. It may be necessary to apply some pressure as you spin the takeoff a full 360° around. Inspect the inside of the takeoff to be sure no insulation from the plenum is projecting into the airstream. Continue to spin the takeoff until no excess insulation can be seen down inside the stub of the takeoff.

**Figure 3. Spin-In Takeoff (for 1-inch (25 mm) Fiberglass Duct)****CONNECTING DUCT TO TAKEOFF OR TERMINATOR**

1. Pull back the insulation of the supply tubing about 2 inches (5 cm) to expose the inner core.
2. Slip the clamp ring over the core
3. Slip the core over the stub of the takeoff or terminator as far as you can. Then secure with clamp using clamp pliers (UPC-54).
4. Stretch the insulation and outer jacket over the core and stub and stuff under the tape ring as best you can. Secure the outer jacket with UL-181A aluminum tape.