



Patch Rite INSTRUCTIONS

INTRODUCTION: **Patch Rite** is a permanent, 1200 psi, high pressure patch for copper and aluminum tubing. The secret to **Patch Rite** is the air-tight cavity, which when filled with **Patch Rite** gel, forms a high-density solid acrylic patch over and around the hole being repaired. A stainless steel clamp maintains pressure on the patch to ensure a permanent repair. See figure 1 for patch.



FIGURE 1:
Patch Rite PATCH

STEP 1: Select the proper size stainless steel **Patch Rite** patch that fits the O.D. of the tubing. Select the appropriate diameter stainless steel clamp (included in kit). The stainless patch will not cause galvanic corrosion on either copper or aluminum tubing.



FIGURE 2: CLAMP
OPENED

STEP 2: Open the clamp so that clamp can be fitted around the tubing. See figure 2

STEP 3: Re-assemble the clamp around the tubing by inserting the end of the clamp into the screw mechanism and (using a nut driver) turn the screw clockwise drawing the clamp into the screw assembly. Place the patch onto the tubing, slip the clamp over the patch and tighten the clamp just enough so the clamp can be easily slipped on and off of the patch. Make sure the screw head is facing outward (toward technician) and is 180 degrees from the patch. Temporarily move the clamp off the patch and remove the patch. See figure 3.

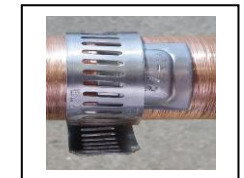


FIGURE 3. CLAMP
REASSEMBLED

STEP 4: Using the 60-grit sanding cloth provided, sand the tubing around the hole. Use a sanding stroke in only one direction – either around the tube or linear to the tube, and sand the entire area where the **Patch Rite** bridge is to be placed. Do not wipe the area unless refrigerant is oozing from the hole. If oozing does occur, wipe the sanded area with a new clean rag soaked in alcohol or acetone and quickly squirt a small drop of **Patch Rite** gel over the hole (this should temporarily stop the oozing).

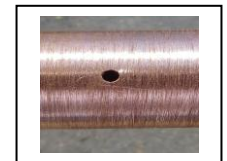


FIGURE 4. TUBING
PROPERLY SANDED

PLEASE NOTE: The **Patch Rite** patch does not require sanding. See figure 4.

STEP 5: Squirt **Patch Rite** gel, from the tube, into the cavity. The gel should initially be higher than the cavity. Use a toothpick (provided) to make sure the entire cavity is filled and no air bubbles exist. Use the side of the toothpick to level the **Patch Rite** gel with the height of the cavity (it is OK if the gel is slightly higher than the cavity as it will be squeezed out when the clamp is tightened). See figure 5.



FIGURE 5. PATCH FILLED
WITH GEL BEFORE LEVELING

STEP 6: Place the center of the patch cavity directly over the hole to be patched. Hold it in place while maneuvering the clamp over the patch (center the clamp over the cavity). **Make sure the patch does not move.** Using a nut driver, tighten the clamp tight (you cannot over tighten the clamp on large tubing, but you could crush small diameter tubing if you tighten the clamp too tight) be sure the screw head is 180-degrees from the patch. See figure 6.



FIGURE 6. CLAMP
TIGHTENED

STEP 7: Allow the **Patch Rite** patch to sit undisturbed for 20 minutes. After 20 minutes the **Patch Rite** repair will hold a minimum of 1200 psi. Any excess gel around the **Patch Rite** patch may be cleaned off after the 20-minute period. **DO NOT REMOVE THE STAINLESS STEEL CLAMP!**