

TECHNICAL BULLETIN

#80 March 17, 1993

MARK 2 OVER-THE-SHOULDER GAUGE HOSE REPLACEMENT

This bulletin applies to all Mark 2 SCBA's with the over-the-shoulder metal flex gauge hose, P/N 980609, which are being converted to the new rubber gauge hose, P/N 980612.

NOTE

The rubber over-the-shoulder gauge hose will fit only in the chevron-style strap, P/N 942234, shown in Figure 1.

All of the procedures described in this bulletin must be performed by SURVIVAIR-certified technicians.

CONFIGURATION 1 – Routing Without T-12 Clip

Installation

1. Disconnect the metal flex over-the-shoulder gauge hose, P/N 980609, from the pressure gauge and the first stage regulator connection. Connect the rubber over-the-shoulder gauge hose, P/N 980612, to the first stage regulator connection.
2. Discard the four retainers, P/N 910075, and the two retaining clamps, P/N 104913, that secure the metal flex hose to the cylinder bracket, P/N 946023.
3. Route the rubber gauge hose through the backpack and shoulder strap as shown in Figure 1.
4. Apply Loctite 242 to the threads connecting the pressure gauge. Torque the pressure gauge to 80 in.-lbs.
5. Temporarily loosen the screw and nut

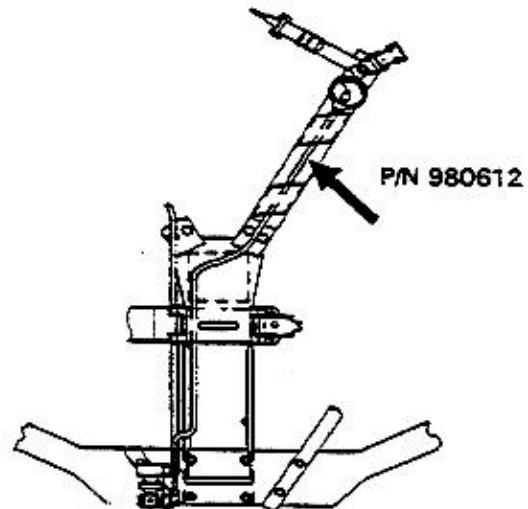


Figure 1.

shown in Figure 2.

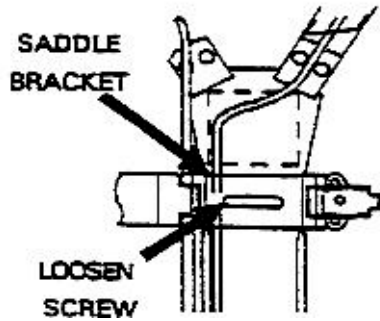


Figure 2.

6. Lift the saddle bracket and route the hose under it.
7. Rotate the hose to position the pressure gauge face in an “up” position as seen by the wearer.
8. Retighten the saddle bracket to secure the hose.
9. Pressurize the system and check the gauge, hose, and connections for leaks with a liquid leak detector.

CONFIGURATION 2 – Routing With T-12 Clip

Installation

1. Disconnect the metal flex over-the-shoulder gauge hose, P/N 980609, from the pressure gauge and the first stage regulator connection. Connect the rubber over-the-shoulder gauge hose, P/N 980612, to the first stage regulator connection.
2. Discard the four retainers, P/N 910075, and the two retaining clamps, P/N 104913, that secure the metal flex hose to the cylinder bracket, P/N 946023.
3. Remove and discard the left hinge screw, P/N 836022, and replace with the longer T-12 screw, P/N 832504.
4. Tighten the first locknut on the replacement screw to hold the backpack hinge assembly in place. Verify that the gap between the hinges of the backpack is similar on both sides of the cylinder band.
5. Install the T-12 clip, P/N 961247, as shown, opposite the center of the cylinder band bracket, with the raised lettering facing out.
6. Route the I.P. hose through the left side of the T-12 clip, and the pressure gauge hose through the right side of the T-12 clip.
7. Route the rubber gauge hose alongside the backpack as shown in Figure 4.
8. Slide the T-12 clip onto the long hinge

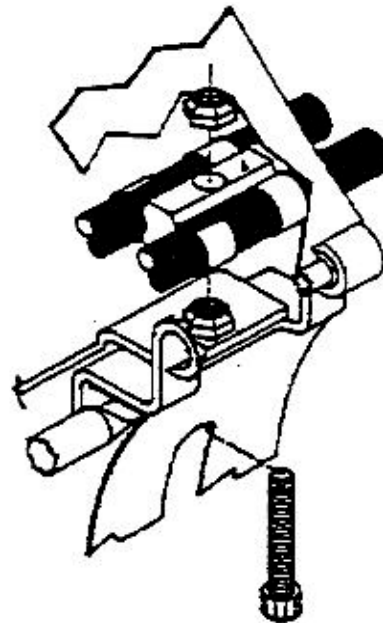


Figure 3. T-12 Clip

screw and secure with the second locknut.

9. Apply Loctite 242 to the threads connecting the pressure gauge. Torque the pressure gauge to 80 in.-lbs.
10. Ensure that the saddle bracket is retightened.
11. Pressurize the system and check the gauge, hose, and connections for leaks with a liquid leak detector.

NOTE

Properly installed hoses should be neatly secured alongside the backpack without any slack hose.

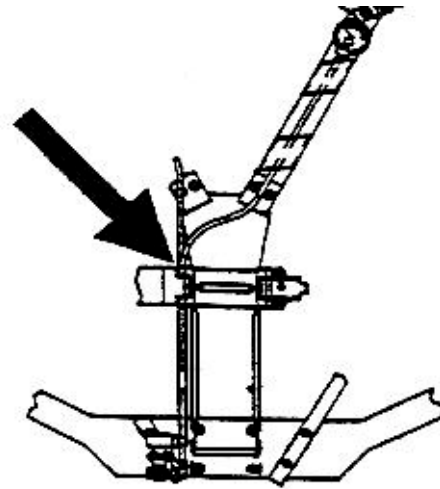


Figure 4. Hose Routing