

AIR HOSE GROUNDING INSTRUCTIONS

DESCRIPTION



Risk of static discharge which can cause a fire or explosion. The grounded air hose connections must be properly installed to assure continuity. Read and follow these instructions and confirm proper continuity with an Ohm meter as indicated on Page 2.

Static electricity can be quite common in the portion of a compressed air system that is not grounded. This phenomenon is caused by frictional forces of compressed air passing through electrically neutral air hose. Dissipation of these charges to ground may be through the air tool connected to the hose or through the operator. Depending on the method of discharge, it can be either inconvenient or represent a safety hazard if occurring in confines of a spray booth.

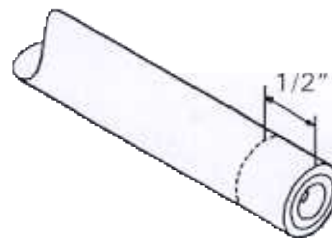
Static electricity can be simply and economically eliminated using a grounded air hose such as DeVilbiss No. H-1641-1 (5/16" ID) or H-1995 3/8" ID). Either size hose can be used to effectively ground any air tool such as spray guns, duster guns, pneumatic tools, etc., to the grounded piping systems.

The static wire used in these hoses is stranded to allow flexibility and is spiral wound along with the reinforcing fabric. To assure electrical continuity, follow the directions in this service bulletin for proper connection installation.

INSTALLATION

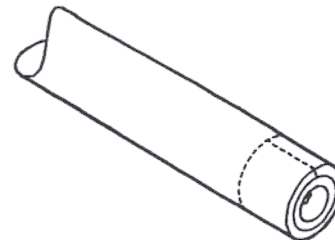
Carefully cut a band through hose cover around entire hose circumference. Cut should penetrate to depth of cover only. See Figure 1.

Figure 1



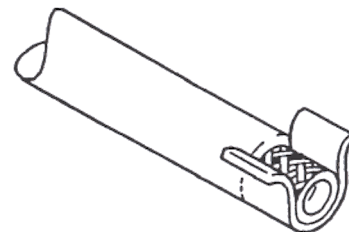
Carefully cut through hose cover from band to end of hose. See Figure 2.

Figure 2



Peel away over back to band and remove. See Figure 3.

Figure 3



Locate ground wire wound within reinforcing. Carefully cut reinforcing on each side of wire back to cover. Use care not to cut the wire. Expose wire end and pull away from reinforcing using needle hose pliers. See Figure 4 and 5.

Figure 4

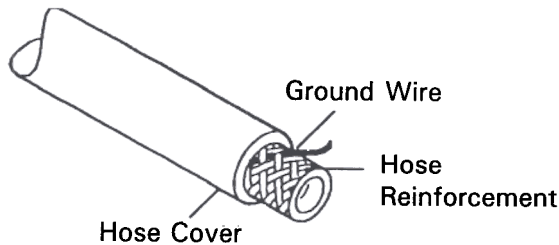
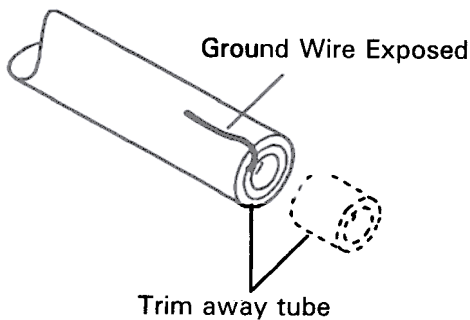
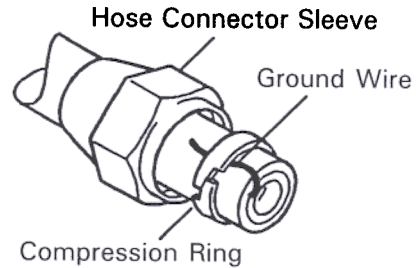


Figure 5



Lay wire back on hose cover. Slide hose connector sleeve over hose, past wire. Spread compression ring apart slightly and slide over hose and wire 1/2" back.

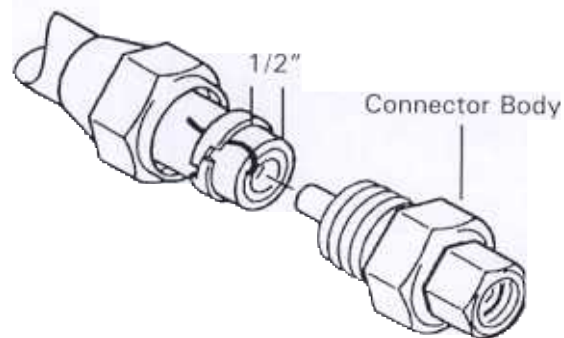
Figure 6



Insert connection body into hose tube until hose bottoms out inside connection body.

Pull connection sleeve forward over the ring and engage threads of body and sleeve and tighten.

Figure 7



Repeat this process at the other end to complete assembly.

When connected to this hose, the gun or air tool will be grounded back through the metal air piping. To insure continuity between gun or air tool, connect one end of an Ohm meter to each hose connection. Meter deflection should read approximately 1 ohm per feet of hose length.

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