Manitowoc®

SERVICE COMMUNICATOR

Subject: Replacement CVD Condensing Unit Low Pressure Control

This information applies to CVD condensing units with the following failures only:

- Contactor
- Low pressure control
- Compressor

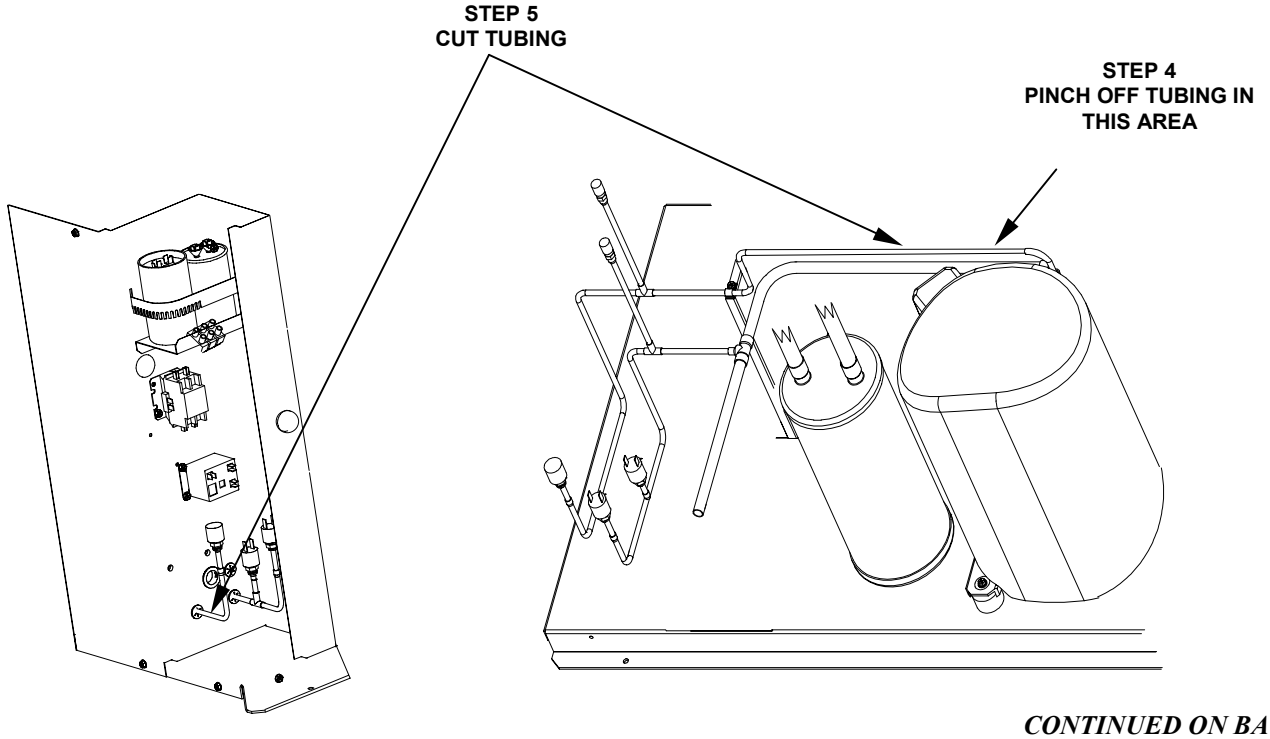
Disregard this information for all other component failures or ice machine models.

Refrigeration oil might be present in the tubing below the low-pressure cutout (LPCO). Refrigeration oil in the LPCO tubing can cause rapid cycling of the contactor and premature contact failure. As a precaution, anytime one of these components are replaced (contactor, compressor or LPCO) the LPCO must be relocated. Replacing and moving the LPCO will eliminate the possibility of reoccurrence.

This procedure is to be performed only on CVD Condensing Units with a failure of one of the listed components. Do not perform this procedure on CVD Condensing Units that are functioning normally.

A PINCH-OFF TOOL IS REQUIRED FOR THIS PROCEDURE.
Removing the refrigerant charge is not necessary.

1. Disconnect power to the condensing unit.
2. Remove - top, left side, control box and front panels.
3. Disconnect LPCO wires from contactor coil and HPCO.
4. Pinch off 1/4" tubing at location shown in drawing.
5. Cut 1/4" tubing at two locations (refer to drawing).

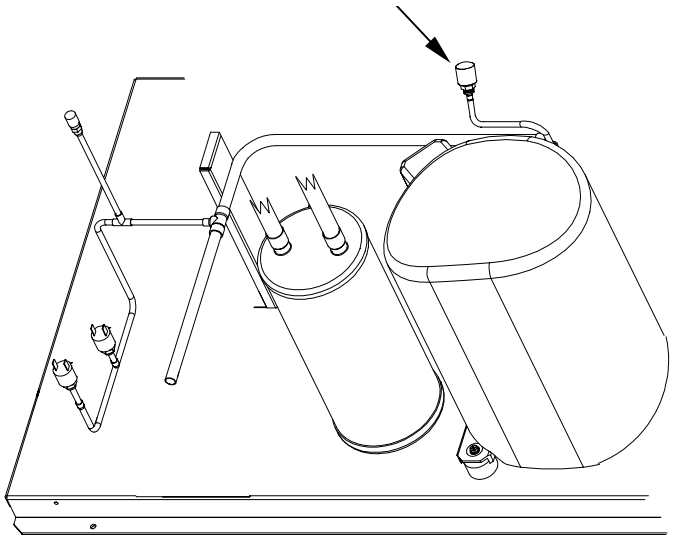


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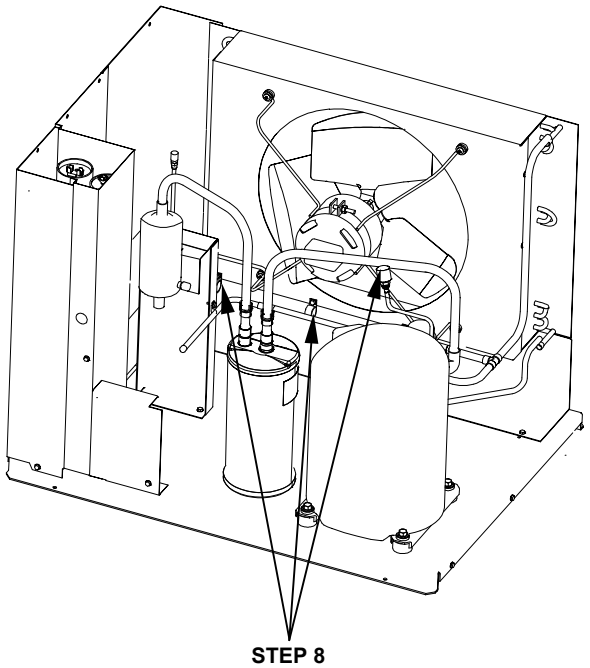
MANITOWOC ICE, INC. 2110 S. 26th ST., PO box 1720, Manitowoc, WI. 54221-1720 USA
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6. Use tubing bender to bend tubing 90° (vertical up). Cut to final length (2"), swage tubing, fit LPCO in position and braze.

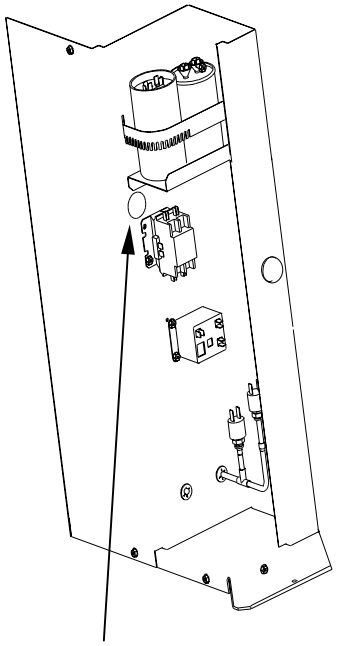
STEP 6
BEND TUBING 90°
CUT TO FINISHED LENGTH (2") AND SWAGE
BRAZE LPCO



7. Remove pinch off tool, round tubing and check for refrigerant leaks.
8. Route wires through P clips (with compressor and condenser fan motor wiring) to control box. Connect LPCO wires to HPCO and contactor coil (wiring connections remain the same).
9. Restore power to the CVD condensing unit and test cycle LPCO switch.



STEP 8
ROUTE WIRING THROUGH P CLIPS TO THE CONTROL BOX.



STEP 8
ROUTE WIRING INTO CONTROL BOX. ATTACH WIRE ENDS TO HPCO AND CONTACTOR COIL. (WIRING CONNECTIONS REMAIN THE SAME)