DATE: Feb 27, 2018

TO: E-ONE Customers and Dealers

FROM: Kevin Kearns, Customer Support Manager

SUBJECT: **Manifold End-Cap Flat End Replacement on Trucks with 599699 or 621653 Manifold Assemblies**

Dear E-ONE Customers and Dealers,

E-One has identified a repair for possible flat cap manifold leakage/damage on E-ONE X036 and X113 trucks built between Jan. 19, 2001 and March 11, 2002.

Affected Products: E-ONE X036 and X113 trucks built between Jan. 19, 2001 and March 11, 2002 with flat end cap manifolds E-ONE part numbers 599699 or 621653.

Summary: Some apparatus manifolds may fail under high pressures or water-hammer events.

Remedy: Install a rounded end-cap to reduce the stresses at the ends of the front and rear sides of the manifold assembly. Instructions for replacement are attached.

NOTE: This document is for trained professional technicians, who have been trained in welding stainless pipes and have the tools to perform this service safely and correctly.

Repair Procedure:

1) Remove pump panel and body panels as needed to access the manifold assembly in the pump module.

2) Cut 4” from flat end of manifold at front and rear. Remove all burrs and sharp edges from inside the pipe to prevent suction turbulence.

3) Weld E-ONE 1075783 rounded end cap in place of removed material. Use ¼” fillet weld full round bead to join 1075783. See ***Figure 1*** for example of an updated manifold assembly. Weld in accordance with ASME B31.1/31.3 for stainless 3XX series pipe.

Figure 1*: Manifold Repair Schematic*

4) Perform a hydrostatic test of the manifold assembly in accordance to NFPA 16.13.10.2 (see Attachment 2.

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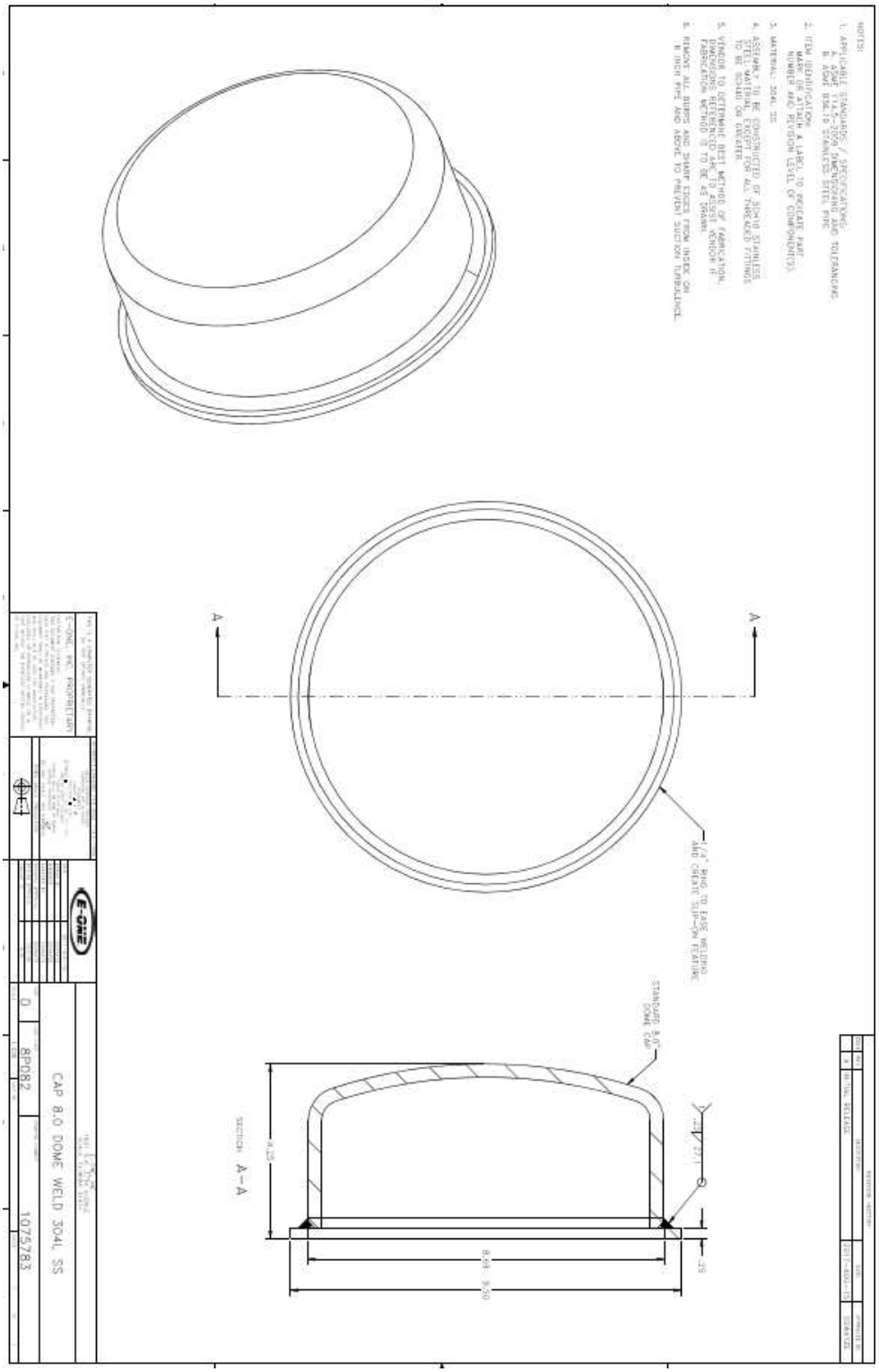
ATTACHMENT 1: MANIFOLD CAP SKETCH



ATTACHMENT 2: NFPA HYDROSTATIC TESTING TO NFPA 16.13.10.2

NFPA 16.13.10.2: The hydrostatic test shall be conducted as follows:

(1) The pump and its connected piping system are hydrostatically tested to a gauge pressure of 250 psi (1700 kPa).

(2) The hydrostatic test is conducted with the tank fill line valve, the bypass line valve if so equipped, and the tank-to pump valve closed.

(3) All discharge valves are open and the outlets capped.

(4) All intake valves are closed with intakes uncapped, and Non-valved intakes are capped.

(5) This hydrostatic test pressure is maintained for 3 minutes.