*** * CONFIDENTIAL * ***

Technical Service Bulletin 2016-0893

DATE: July 25, 2016

TO: E-ONE Dealers and Customers

FROM: Kevin Kearns, Customer Support Manager

SUBJECT: 300 amp Pump Primer Motor Fuse

E-ONE vehicles are designed with electrical circuit protection (e.g. fuses), to provide overcurrent protection during short-circuit conditions or malfunction of components. Fuses are sometimes shared amongst different circuits. For example, the circuits for the pump primer motor and chassis power share a common 300Amp fuse. If either of these circuits experiences an electrical overload, the fuse will act as designed to protect the users and the vehicle from further damage. As such, an overcurrent condition in the pump primer circuit will also disconnect main power from the cab and chassis and cause the engine to shut down. Take note that the pump primer is interlocked with the parking brake, so this condition can only exist while the vehicle is stationary and pump primer motor switch is being activated.

E-ONE recommends that personnel be made aware of this condition, and trained to replace the 300Amp fuse to restore chassis power, in the unlikely event that an overcurrent condition in the pump primer circuit results in a blown 300Amp fuse. Please find attached work instruction: ***"Main Fuse Replacement Instructions"***, which details the procedure to replace the 300Amp Main fuse.

Alternatively or in addition to the above training, the pump primer motor circuit can be isolated from the main chassis circuit, to prevent loss of chassis power if the 300Amp fuse blows during a pump primer motor circuit overcurrent condition. Attached is a work instruction: ***"Pump Primer Motor Dedicated Fuse Installation"***, which details how to effectively separate the two circuits and add a dedicated and protected circuit for the pump primer motor. It also includes a list of recommended parts.

This is considered a product improvement, and will be a running change on newly built E-ONE apparatus. This is not considered a warrantable issue.

If you have questions concerning this bulletin, please contact the E-ONE Customer Support Department at (352) 861-3612.

Kevin Kearns
Customer Support Manager

Main Fuse Replacement Instructions

Summary:
This document will serve as instructions on replacing a main 300 amp fuse. This instruction can be used on both custom and commercial trucks.

Parts Required:
Bussman ANN-300 amp Fuse-672721

IMPORTANT: Before starting any of the instructions below. Turn off main power to truck. 12vdc will be present on the battery side stud, so use care when loosening the nuts.

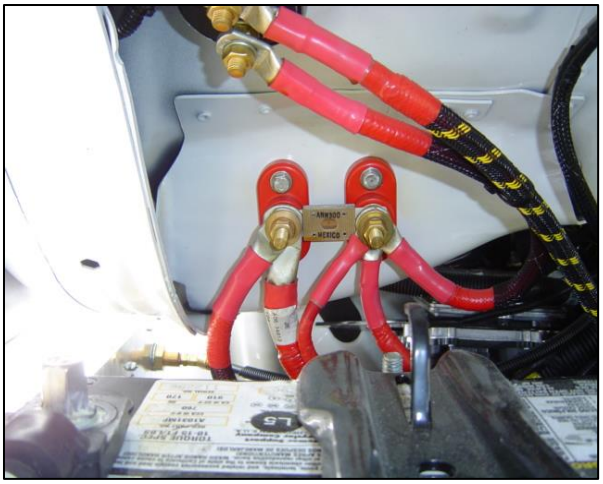
Instructions:

1. Locate the main 300 amp fuse for the truck.

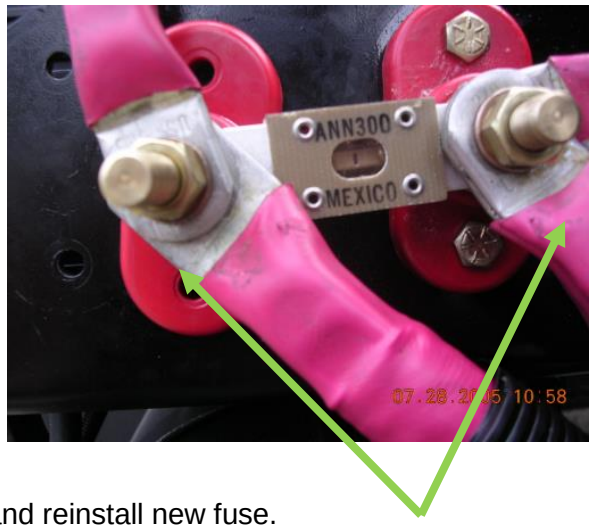
Example of 300 Amp Fuse

a. Custom chassis location will be behind the left battery box.

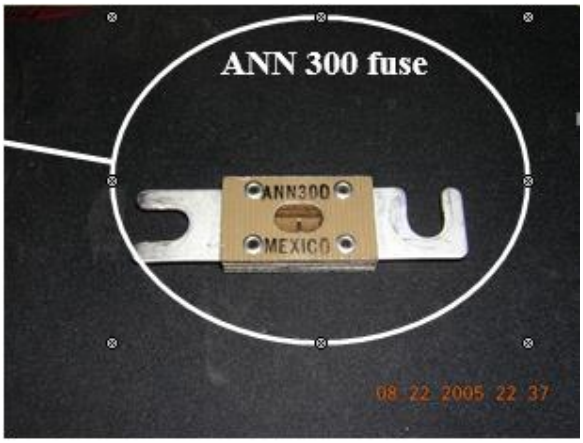
b. Commercial chassis will be in the located close to the master battery switch beneath the cab.



2. Loosen both brass nuts on the two j-blocks. It should not be necessary to remove them completely as the fuse is slotted.



3. Remove old fuse and reinstall new fuse.



4. Retighten the two nuts.

Pump Primer Motor Dedicated Fuse Installation Instructions

Summary:
This document will serve as instructions on installing a dedicated fuse for the pump primer motor. This installation instruction can be used on both custom and commercial trucks.

Parts Required:
KIT 300A PUMP PRIMER MOTOR FUSE – 1061857

Note: The kit above contains all of the parts below.

Bussman Single Stud Buss Bar-692050

Bussman Insulated Nut-692049

Bussman MRBF 300 amp fuse-692067

IMPORTANT: Before starting any of the instructions below. Disconnect all batteries both positive and negative terminals.

Instructions:

1. Locate the main 300 amp fuse for the truck.

Example of 300 Amp Fuse

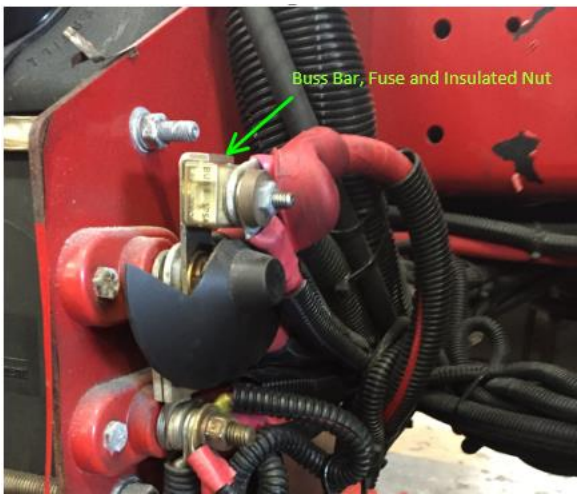
   a. Custom chassis location will be behind the left battery box.

b. Commercial chassis will be in the located close to the master battery switch beneath the cab.

2. Locate the pump primer motor power cable at the fuse.
    a. The cable will be a 2ga cable located on the load side of the fuse.
    b. Cable will be marked “Primer”. If marking is not visible, then a continuity check or tracing the cable can be done to verify the right one.

3. Remove cable from the load side of the fuse.

4. Install the buss bar (692050) onto the battery side of the 300 amp fuse (See example below).
5. Install the MRBF fuse (692067) onto the buss bar (See Example Below).
6. Install the primer motor cable onto the fuse and secure with the insulated nut (692049) (See example below).
    a. Installing the cable may require the removal of tie wraps to pull extra length to install on the new fuse.



Example of Typical Fuse Installation

7. Reinstall battery cables.
8. Test functionality of pump primer motor.