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Subject: Changes in Coolant Procedures and Maintenance for Style "B" Liquid Cooled Solid State Starter (LCSSS)		

General

The following coolant guidelines must be observed when servicing or performing maintenance on Style B liquid cooled solid state starters.

Increase Coolant Change Intervals:

To insure the longevity of the LCSSS closed loop cooling system, **the coolant must be changed every year.** A coolant failure can result in a very expensive repair.

Do Not Reuse Coolant:

In the event the coolant must be removed to facilitate a repair to the LCSSS, all of the coolant must be drained, discarded, and new coolant installed. There have been a few instances where drained coolant became contaminated in the storage container. The contaminated coolant later failed in the LCSSS. **NEVER REUSE COOLANT!**

Clear Coolant:

We have tested many samples of clear coolant, and have found that properties of the coolant are within the required limits. There is no need to change coolant just because it has become clear. However, if the coolant in the LCSSS is more than one year old, then it must be changed.

In a few cases the coolant has become cloudy white, dark yellow, or brown in color. In these cases the coolant must be drained and discarded. The system must be filled with new coolant, and the coolant circulated through the cooling system for 30 minutes. This coolant also must be drained and discarded. Then new coolant must be used to fill the cooling system. Recheck the cooling system in two weeks to ensure that the coolant has not changed color.

Coolant in Newly Shipped Units:

The style 'B' LCSSS is shipped with a 50/50 mix of Propylene Glycol and York Corrosion Inhibitor. This type of coolant is being used to protect the cooling loop from damage due to freezing conditions during the shipping process. This coolant mixture does not have the thermodynamic properties required by the LCSSS during a running condition. Thus, this 50/50 mixture must be drained and replaced with YORK coolant as currently used in the LCSSS. **Propylene Glycol is the same material used to winterize recreational vehicles. Although it is non-toxic, follow local guidelines for proper disposal.**