

Title: VERSION 10 SOFTWARE

Number: C9610

Date: 3/8/96

Models Affected: 19XL

Supersedes:

Date:

PURPOSE:

To inform the field of the introduction of Version 10 19XL PSIO Software. These changes are improvements and should not be considered warranty claims.

IMPROVEMENTS:

1.) Compressor Starts Transfer.

Eliminate the automatic transfer of compressor starts and operation hours when new module is installed. After replacing the PSIO, following the Operations and Maintenance instructions through the uploading procedure, manually enter the Total Compressor Starts and Compressor Ontime hours in the STATUS01 screen and continue to reconfigure new module.

2.) Oil Heat Algorithm.

The oil heat algorithm is enabled after a three hour power outage to the PSIO instead of five minutes. After power is restored, the oil will be heated to 100 deg. F (56 deg. C) above the evaporator refrigerant temperature or 190 F (88 C), whichever is lower. Once this temperature is reached, the oil pump will be energized for 1 to 2 minutes or until the oil sump temperature cools to below 145 F (63 C). The normal heating algorithm is now followed once ramp loading has been completed.

3.) Improved Metric Conversion.

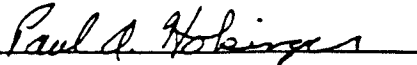
Improved accuracy with metric conversion for Reset Temperatures in Equipment Configuration table and temperature deltas in Equipment Service.

4.) Shunt Trip Relay Test.

Added shunt trip relay test to the Controls Test.

FILE: Controls-Wiring

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5.) Load-based Recycle Shutdown Trigger.

Added a second recycle condition for both LCW and ECW control under which recycle shutdown would be triggered when: (a) (ECW - LCW) is less than a configurable value, and (b) the controlling temperature (LCW or ECW) is below the control point. This condition does not apply in the ice-build mode. Added a SERVICE01 Screen entry Recycle Shutdown Delta T (0.5 - 4.0 deg. F (0.28 - 2.2 deg C)) with a default of 1.0 deg. F (.56 deg. C). The original recycle shutdown of 5 deg. F (2.8 deg. C) below the control point has not changed.

6.) Software Voltage Calibration.

Added capabilities to calibrate motor voltage readings with the use of STATUS01 screen inputs (similar to motor current calibration). Initial adjustment is performed with the voltage trim potentiometer in the starter, then final fine adjustment with PIC Controls. Calibration is performed by entering Line Voltage Percent from 90 to 110%. This will permit elimination of the voltage trim potentiometer in the starter in the future.

7.) Shunt Trip Relay Energization.

The shunt trip relay will be energized when the evaporator refrigerant pressure is less than zero. The shunt trip relay will also be energized during pumpdown mode in Controls Test. This feature will prevent the accidental start of the compressor motor in a vacuum.