



SER14-010
03/27/2014

SUBJECT: Advance Software U05.09.00 & V05.09.00

U05.09.00 and V05.09.00 versions of Microprocessor Software are now available for all Advance Microprocessor Trailer & Rail units. With the release of this bulletin, U05.09.00 and V05.09.00 will also be available on TransCentral.

There are two versions available. The versions are divided into the "U" version specifically for Ultra / Ultima / NDL models, and the "V" version specifically for the Vector models.

The U05.09.00 version is approved for use in all Ultra (NDA), Ultima (NDX), and X-Series (NDL) models including models with the Intelligent Damper System.

The V05.09.00 version is approved for use in all Vector 1800MT, 5100, 6500, and 6600MT models.

IMPORTANT SOFTWARE INSTALLATION INFORMATION:

ONCE ANY 05.xx.xx VERSION IS INSTALLED INTO AN ADVANCE CONTROLLER, IT WILL NO LONGER BE POSSIBLE TO LOAD ANY VERSIONS OF 04.xx.xx or earlier versions of SOFTWARE INTO THAT MICROPROCESSOR. Future version releases may be loaded as they are released.

U05.09.00.bex or V05.09.00.bex software can be installed using a Program PC card. U05.09.00.bex and V05.09.00.bex are both available at no cost by visiting the Carrier Transicold TransCentral™ website. Existing Program PC cards may be upgraded to U05.09.00.bex or V05.09.00.bex using the TRU-Tech program.

NOTICE: The display and MessageCenter may behave differently during the software loading process, depending on the version of software currently in the controller. DO NOT INTERRUPT THE SOFTWARE INSTALLATION PROCESS ONCE IT HAS STARTED.

When upgrading from 03.02.00 or higher to U05.09.00 or V05.09.00, all information for installing, and an update of the install process, will be displayed in the MessageCenter.

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TD/TU

When upgrading from a version **prior to** 03.02.00 to U05.09.00 or V05.09.00, once the Program PC Card is inserted, and the “=” key pressed, the display will turn off, and the engine will stop (if it was running). NOW, after the software installation process has been underway for just a few seconds, the display will power up, and the MessageCenter will show INSTALLING PROGRAM SOFTWARE during the software install process. The Card Status LED adjacent to the PC Card slot will blink together with the Micro Status LED during the software installation process. Once the entire program has been loaded, the MessageCenter will show INSTALL COMPLETE – REMOVE CARD. At the same time, the Card Status LED will stop blinking and be on solid, indicating that the software install is complete.

NOTE FOR NDL, NDP and NEP MODELS: *Once the unit shuts down to begin the software install process, the Suction Modulation Valve closing process begins. **The software installation processes will not begin until the SMV is completely closed, which will delay the actual software install process (the Microprocessor Status and Card Status LEDs blink together every 0.5 seconds) for about 45 seconds.***

Additional information regarding changes featured in this new software release is detailed below.

NOTE: Whenever loading software into an Advance controller, it is always wise to verify that the new version is actually installed by going to the Data List, and reading the installed software version at the MessageCenter.

05.09.00 Technical Information

New information for X-Series units only

NOTICE: Carrier Transicold transport refrigeration units (TRUs) are designed to maintain the temperature of the product at the temperature at which it was loaded; Carrier Transicold TRUs are not designed to cool warm product.

Two new configurations have been added specifically designed to aid produce haulers that are picking up warm and moist (non-pre-cooled) fresh produce: WARM PRODUCE MODE (with ON/OFF selections) with OFF being the default setting, and WARM PRODUCE MIN TEMP. These configurations can be found in the Configuration list just above the ProductShield settings.

- When WARM PRODUCE MODE is set to ON, and the setpoint is set to one of the following setpoints (32°F, 33°F, 34°F, 35°F or 36°F), and the unit is set to Continuous Run operation, WARM PRODUCE MODE will be active. When WARM PRODUCE MODE is active, the Message Center will show PRODUCE MODE ACTIVE.
- WARM PRODUCE MIN TEMP has the following available selections: 29°F, 30°F, 31°F and 32°F. The default setting is 29°F.
- These configurations have not yet been implemented into TRU-Tech, and cannot be used in any IntelliSets or on a Config Card. These configurations can only be set from the keypad at this time.
- When WARM PRODUCE MODE is active, the controller will use the WARM PRODUCE MIN TEMP value as the setpoint with Supply Air control logic and high speed pulldown to setpoint. That way the minimum temperature that is blown onto the product will be the WARM PRODUCE MIN TEMP. The display will show the actual setpoint selected and the Return Air Temperature. If Start-Stop is selected, or if the set point is changed to outside of the range defined above, the controller will exit WARM PRODUCE MODE and go into normal temperature control.

- Once the system exits pulldown and is in normal temperature control with Supply Air control logic, if the RAT increases to more than 3.6°F (2°C) above the setpoint, high airflow will be activated until the RAT falls back to within 1.8°F (1°C) of the setpoint.
- If the RAT ever falls to more than 0.9°F (0.5°C) below the actual setpoint the system automatically returns to return air control (with FreshProtect “A” locked) until RAT equals setpoint. The system will then revert back to the warm produce supply air control logic.

New information for Vector 6500 and 6600MT units only

- Prior to this version, when the unit cycled into a Start-Stop Off Cycle, the EVXV remained open for several minutes to equalize the refrigeration system pressures. Starting with this version, the EVXV will be set to 0% when the unit cycles off. Pressure equalization will occur prior to the unit restarting again, following the minimum off time.
- Prior to this version, Vector 6600MTs when equipped with door switches would not display the second compartment box temperatures when the door was opened. Starting with this version, the second compartment temperatures will be displayed when the door is open whether or not the door switch configuration is set to shutdown mode.