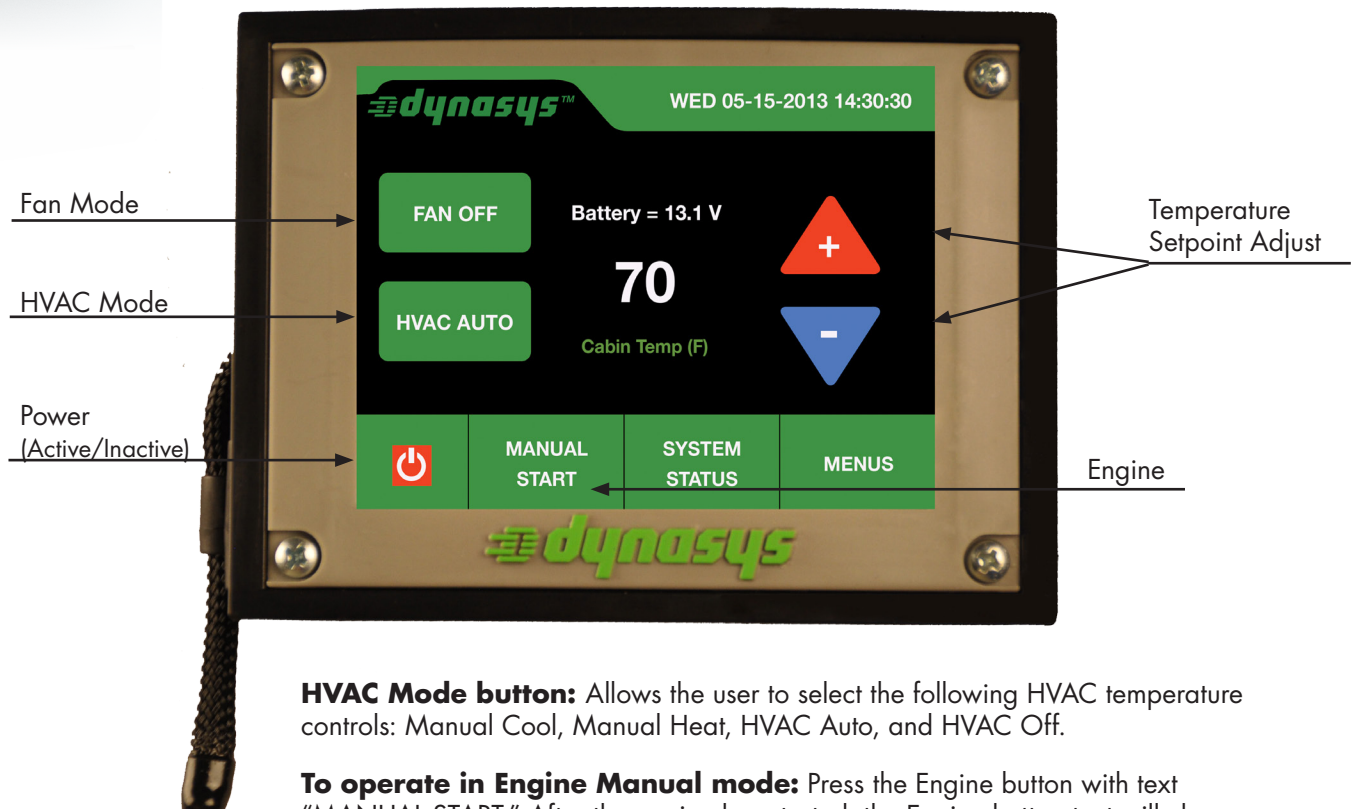# DYNASYS™ CCU QUICK OPERATIONS GUIDE

The Cabin Control Unit (CCU) is the user interface/controller for the *Dynasys* Auxiliary Power Unit (APU). The CCU mounts inside the truck cabin and provides the user with a touch screen interface to control cabin temperature, monitor APU engine activities and outputs, and provide information about the APU system.

The home screen provides control of the APU and HVAC functions. The CCU home screen will display time, cabin temperature, Fan Mode, and HVAC Mode. The home screen will also have a row of buttons for Power, Engine, System Status, and Menus. The home screen is shown in illustration below:

Fan Mode

HVAC Mode

Power (Active/Inactive)

Temperature Setpoint Adjust

Engine

WED 05-15-2013 14:30:30

FAN OFF

HVAC AUTO

Battery = 13.1 V

70

Cabin Temp (F)

+

−

MANUAL START

SYSTEM STATUS

MENUS

HVAC Mode button: Allows the user to select the following HVAC temperature controls: Manual Cool, Manual Heat, HVAC Auto, and HVAC Off.

To operate in Engine Manual mode: Press the Engine button with text "MANUAL START." After the engine has started, the Engine button text will change to "STOP ENGINE." Select the Fan mode, HVAC mode, and the temperature setpoint using the RED (up) or BLUE (down) buttons. The system will now operate HVAC based on these settings. To stop the engine, press the Engine button.

To operate in Engine Auto mode: Select the fan mode, HVAC mode and the temperature setpoint using the RED (up) or BLUE (down) buttons. The APU engine will automatically start and operate based on these settings to reach the temperature setpoint. After the engine has started in Cabin Temp Auto Start, the Engine button text will change to "MANUAL STOP." Once the setpoint is reached, the APU Engine will shut down until the temperature either rises or falls past the setpoint. The system will repeat this process during Cabin Temp Auto Start. To switch to Engine Manual Mode from Auto Mode, press the Engine button, and press "OK" on the warning screen. The APU will now run in Engine Manual. The Engine button will now display "STOP ENGINE." To stop the engine, press Engine button.

For further CCU operations, refer to the CCU manual supplied with the APU system.

There is a slight delay between pressing a button and the display update. Please allow the display to update with the new setting prior to pressing the same button again.

Power button: Turns the system on/off (Active/Inactive modes). See illustration on page 1.

System Status button: Will provide you with the overall status of the *Dynasys* System. Engine Status will display (running manual, Auto Start selected or "OK to Start"), Shore Power Status, Cooler/Heater Status, and Fan Speed. The lower button row will display Home, Engine Start/Stop, Service Status, and Alarm buttons.

- **Service Status**
  – Will display all maintenance reminders based on operating hours

- **Alarm Status**
  – Shows active alarms
  – Shows history of alarms

Menus button: Allows you to view, select, and program Auto Start functions, Clock, and other settings. To activate an adjustable parameter (green rectangle button), press the button, then use the UP/DOWN arrows. Press the "home" button to retain the changes.

- **Auto Start options:** Time, Coolant Temperature, and Low Battery

  – **Time Auto Start:** Auto Start based upon time and date, and can be repeated for none, daily, or weekly occurrence. When Time Auto Start is enabled, the HVAC is not allowed to start and the message "TAS Enabled," in yellow text, will appear on the home screen

  – **Coolant Temp:** Temperature of APU engine block coolant.

    o Cold weather feature that allows the user to initiate an Auto Start for APU coolant temperature and APU runtime duration.

  – **Battery:** Monitors truck battery voltage. This setting allows the user to program a voltage threshold to Auto Start the APU based upon the truck battery voltage level.

- **Clock setting**

  – **Clock formats:** Date, Day, Hour, and Minute, with 12– or 24–hour formats available.

- **Settings:** Allows access to adjustable paramters based on access level. For basic user access, no password is required. The user can press the Enter button to access the CCU display brightness, language format, and audible feature. Higher level access is provided by password entry screen.

- **About:** Provides APU system operating hours, CCU and ECM software versions, and serial number information.

For further CCU operations, refer to the CCU manual supplied with the APU system.

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