

# Welcome



Thank you for purchasing the Econolite *Cobalt*™ ATC controller. With *Cobalt*'s intuitive touch screen and easy-to-use operating system, you will quickly be able to find and start using its many features. This QuickStart Guide is designed to help you become familiar with the basic operation of the *Cobalt* controller.

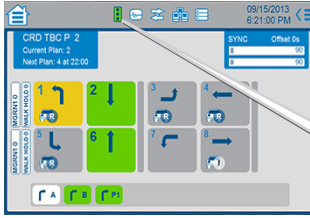
### More Information

For online information, scan the QR code at the end of this guide or go to <http://www.econolite.com/qr/controller/cobalt/>  
For further assistance, please contact your *Cobalt* Representative or EGI Technical Support at +1.800.225.6480 x8982, +1.714.630.3700 x8982, or [support@Econolite.com](mailto:support@Econolite.com).

# Initial Start-up

## Signal Status Screen

After connecting power to *Cobalt*, you see the Signal Status screen (example below), a Ring Diagram that shows intersection status in real time. See reverse page for other Status Bar icons.



Options Icon

The icon for this screen is highlighted in green to show it is active.

## Changing Basic Settings

Press the Home icon, then +/- (top right corner) to show or hide the Application icons (*Using the Home Screen* on reverse page). Press the Settings icon to set the Backlight Timeout duration, the unit Date & Time, to check the system information, & more.

## Options Icon

Press the Options icon (shown above) to select [Guided Setup] or this [Quick Start Help] from the Home screen or, from any screen, to go to context-sensitive [Help] and options.

# Navigation Tips



- Navigate the menus using either the touch screen or keyboard to view status and enter configuration data.

**!** Note: The Cobalt touch screen requires actual tactile pressure to operate. As a result, users can navigate the system even while wearing gloves.

- The *Cobalt* Graphical User Interface (GUI) is designed to allow you to navigate as you would with a smartphone or a tablet. For example, you can enter numerical values with a touch keyboard or scrubber, or swipe right/left to go from one screen to another.
- The *Cobalt* screen is easy to read, even in bright sunlight. To reactivate the screen after a timeout, press the screen itself or any key.

**!** Note: To search inside a help screen: select Options > Search, enter the topic, then select the down arrow.

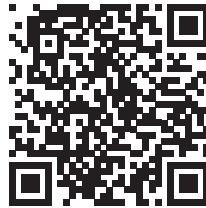
# QuickStart



ATC Controller



Part Number: 140-0903-003 REV 02  
Printed in the U.S.A.



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[www.econolite.com](http://www.econolite.com)

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1. For basic operation, first connect power to the circular male 55-pin "A" plug (MSA) on the *Cobalt* front panel (see above). If the power connector in your cabinet is a circular 10-pin MSA female plug, use a 33274G4 MSA adaptor cable to connect to the circular 55-pin MSA plug on *Cobalt*.
2. Connect the other I/O connectors per your application.
3. Apply power.

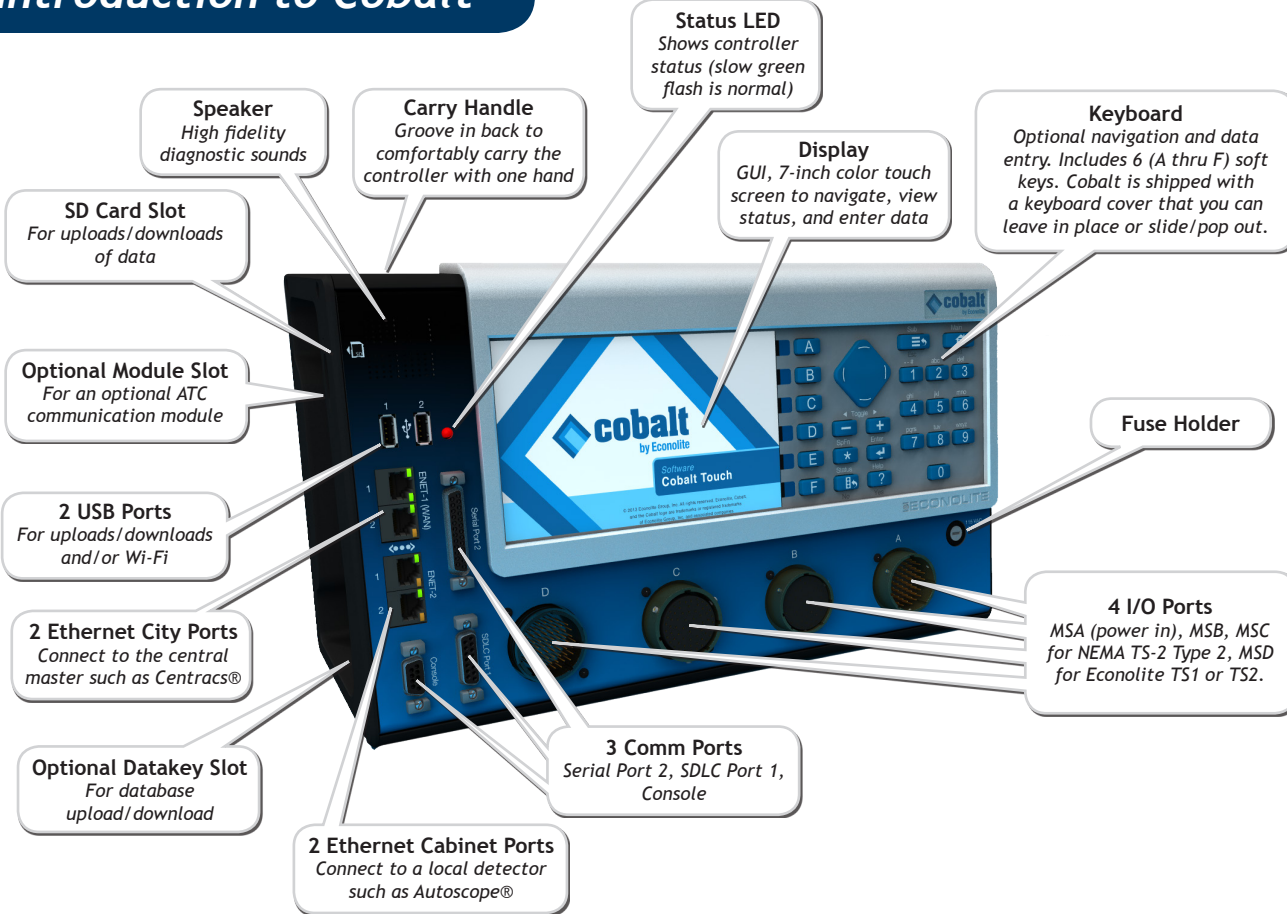
## Power Connection on Cobalt Shelf Mount



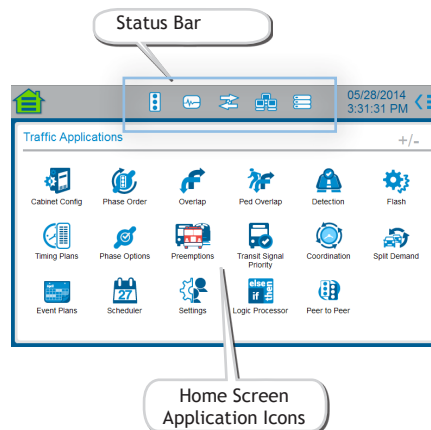
Connector enlarged to show detail

# Power Connection

# Introduction to Cobalt



| Status Bar Icons and Options Icon |                              |  |
|-----------------------------------|------------------------------|--|
|                                   | <b>Signal Status</b>         | Ring Diagram that shows the intersection status in real time   |
|                                   | <b>Event Logs</b>            | Historic activity and events of the intersection   |
|                                   | <b>Cabinet Hardware</b>      | Status of all the components connected to Cobalt. The arrows signify the I/O connections between Cobalt and other cabinet hardware.                        |
|                                   | <b>Network</b>               | Cobalt communications connection information, including Ethernet and serial.   |
|                                   | <b>Database</b>              | Gives database information and access to Consistency and Warning Check messages. Operations with the database, e.g. create/restore configuration defaults. |
|                                   | <b>USB Device plugged in</b> | Status of the USB Port—and access to USB device (icon only shown if USB Port is in use)  |
|                                   | <b>Options</b>               | Additional application functions for the active screen and context-sensitive Help  |



# Using the Home Screen



To program Traffic Applications, press the Home icon at any time to access the Application Icons, described below. You always know what screen is open because its icon, highlighted in green, is next to the Home icon (upper left).

|  |                                |  |
|--|--------------------------------|--|
|  | <b>Cabinet Config</b>          | Load switch assign for channel mapping, SDLC device cabinet interfaces             |
|  | <b>Phase Order</b>             | Set up the phase sequence  |
|  | <b>Overlap</b>                 | Set vehicle overlaps   |
|  | <b>Ped Overlap</b>             | Configure unique signal drivers to replace the selected phase pedestrian outputs   |
|  | <b>Detection</b>               | Vehicle and pedestrian detector assignments, logging and diagnostics               |
|  | <b>Flash</b>                   | Start up flash and automatic flash   |
|  | <b>Timing Plans</b>            | Phase timing   |
|  | <b>Phase Options</b>           | Phase functions  |
|  | <b>Preemptions</b>             | 10 preemption sequences  |
|  | <b>Transit Signal Priority</b> | Optional feature—decreases bus delays and maintains normal coordination            |
|  | <b>Coordination</b>            | Coordination patterns  |
|  | <b>Split Demand</b>            | Detector occupancy events to trigger special coordination split times              |
|  | <b>Event Plans</b>             | Set time-of-day events   |
|  | <b>Scheduler</b>               | Define Event Plans that occur in Day Plans, Calendar Plans and Exception Days.     |
|  | <b>Settings</b>                | General system information, date & time, user accounts, and applications           |
|  | <b>Video Viewer</b>            | View digital video streams, such as those viewable from Autoscope® sensors         |
|  | <b>Logic Processor</b>         | Program up to 100 logic gates with conditions to control the inputs and outputs    |
|  | <b>Peer to Peer</b>            | Operates with Logic Processor screen to implement Peer-to-Peer between controllers |