



Command Zone™ III

Advanced Electronics



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To the Owner and Operator

1-1. Purpose of Manual

This supplemental operator's manual provides operating and maintenance instructions for the Command Zone™ III Field Retrofit Kit. It is intended to serve as a guide to assist qualified operators and mechanics in the operation and maintenance of their vehicle.

This manual provides information under the following headings:

Operation. Contains procedures on performing common operations.

Maintenance. Contains component overview and definition of terms.

Keep this manual with the vehicle at all times.

1-2. Customer Assistance Information

Your satisfaction with your Pierce apparatus is important to your dealer and Pierce Manufacturing Inc. Normally, any question or concern you may have with your apparatus can be handled by your selling or servicing dealer. Your dealer has the facility, trained technicians, special tools, and up-to-date information to promptly address any issue that may arise. Pierce Manufacturing Inc. has empowered dealers to make decisions and repair vehicles, and they are eager to resolve your issues to your complete satisfaction. Should you encounter an issue with your Pierce apparatus that requires service, take the following steps:

Step 1.) Contact your authorized Pierce selling or servicing dealer. They will make the necessary arrangements to order the necessary parts and make the required repairs.

Step 2.) If they are not able to repair the problem to your satisfaction, discuss your concern with a member of dealer management. Normally, concerns can be quickly resolved at that level. If the matter has already been reviewed with the Sales, Service, or Parts Manager, contact the owner of the dealership or the General Manager.

Step 3.) If, after contacting a member of the dealership management, it appears your question or concern cannot be resolved by the dealership without further help, you may contact Pierce Manufacturing Inc. at 888-Y-PIERCE (888-974-3723).



Command Zone™ III

2-1. Introduction

NOTE: Some features are optional and may not be present on your vehicle.

2-1.1 Introduction and General Information

The Pierce Command Zone™ III system is a control and monitoring device for your vehicle that works in conjunction with the SAE J1939 data bus. The Command Zone™ system communicates with assigned components of your vehicle to inform the operator of current status of those components. Each vehicle with a Command Zone™ system may be programmed to monitor and/or control different systems on that vehicle.

Command Zone III capabilities include but are not limited to: an optional 7" touchscreen display, data-logging and recording, enhanced diagnostics, prognostics, and troubleshooting capabilities, GPS, and subsystem integration.

Command Zone III is also WiFi capable, acting as its own secure wireless access point for up to five connections.

2-1.1a Sub-System Integration

Command Zone III has the capability to integrate several and control several standard and/ or optional vehicle sub-systems:

- Seat Belt Monitoring
- Tire Pressure Monitoring
- GPS
- Collision Safety System
- Outrigger Placement System
- Switch Panel Control
- HVAC Control

2-2. Command Zone™ Information Center (CZIC) – General Information

Figure 2-1: Command Zone III Display

COMMAND ZONE™ III FEATURES

**7" TOUCHSCREEN DISPLAY
WIFI CONNECTIVITY
DATA LOGGING
SUB-SYSTEM INTEGRATION
SCENE MANAGEMENT
DIAGNOSTICS
PROGNOSTICS
USER-CUSTOMIZATION**



1507

The Command Zone III Information Center (CZIC) is the operators' main source of information and communication with Command Zone™ system. The CZIC can be accessed several ways:

- (Optional) Command Zone™ Information Centers (CZIC) 7" color graphic touchscreen displays may be found on the cabin dash panel, and on the pump panel (most trucks).
- Some Pierce aerial devices may have a separate CZIC display.
- Arrow XT™, Dash® CF, Impel™, Enforcer™ and Velocity™ chassis also have a 4-line LCD display that is part of the instrument panel. This display shows the same 2-line CAUTION, WARNING, and Command Zone™ text messages (no graphics) that appear on the CZIC screens.
- Command Zone may also be accessed through up to five wireless devices through a secure wireless connection.

2-2.1 Care and Maintenance

The CZIC screen is manufactured with coatings to reduce glare and resist scratches. Despite these design features, care should be taken to avoid damage to the lens. Clean with mild glass cleaner and a soft cloth. Avoid pressure washing around the CZIC, particularly toward the back of the unit. The CZIC incorporates a micro-filter vent on the rear casing that allows the unit to adjust to changes in atmospheric pressure while keeping out dust and moisture. High-pressure water sprayed directly on this vent may allow damaging moisture to contaminate the electronics.

2-2.2 Chassis and Aerial Information Center Differences

Pierce apparatus may be equipped with Command Zone™ electronics on the chassis, the aerial device, or both. The chassis and aerial circuits may share some information, but for the most part are separate systems. A CZIC installed on a chassis Command Zone™ bus will display chassis data, and a CZIC installed on an aerial bus will display aerial information.

2-2.3 Replacing a Command Zone™ Information Center

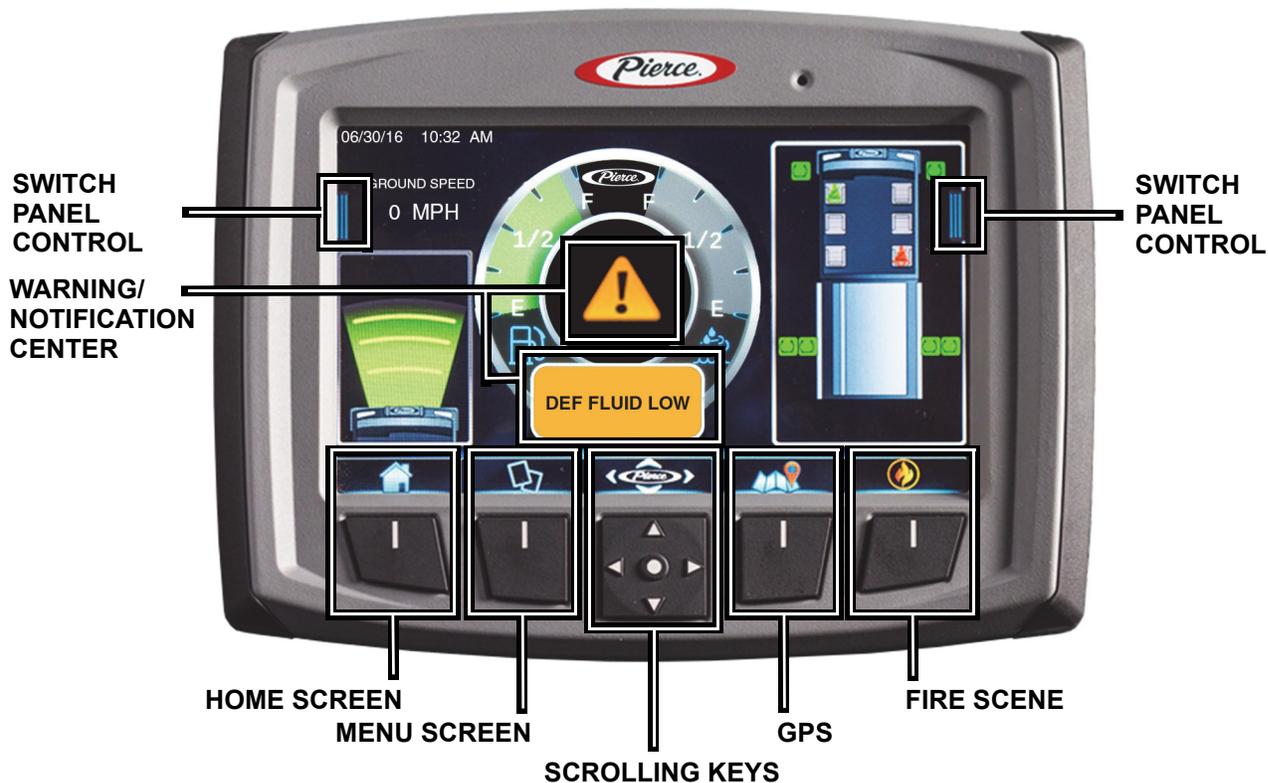
Command Zone III display are truck-specific. To replace a damaged CZIC module, contact Pierce Customer Service with the vehicle job number.

2-2.4 Retrofitting Command Zone™ III to an Older Chassis

The Command Zone III display module can be retrofit into any Pierce D-Series equipped vehicle (multiplex vehicles starting in model year 2007). The retrofit kit may include the display module, tech module, antenna, adapter harness, and other related components. Contact Customer Service for information on retrofit kits and installation instructions.

2-3. CZIC Display Operation

Figure 2-2: Information Center Screen Controls



1508

2-3.1 Screen Navigation

Function Controls

A touchpad with five main function controls is located at the bottom center of the screen to navigate and select screens and menu choices. Redundant buttons for each control are located underneath.

Home Screen

The home screen is a user-settable default screen.

Menu Screen

The menu screen allows the operator to access several functions of the Command Zone™ system including: HVAC control, tire information, interlock warnings, notifications, diagnostics, maintenance, and setup.

Switch Panel Control

Two (password protected) touch buttons are located on both upper sides of the screen. These take you to the virtual switch panel control screens, to provide a secondary means of controlling functions located in the overhead switch panels (lights, etc). The virtual switches can be reconfigured to the user's liking. See ["Virtual Button Setup"](#) on [page 2-13](#).

Warning/Notifications

An Information/Caution/Warning triangle may display on the screen. The Home Screen and Fire Scene Screen will display in the center, with a text message below. Other menu screens may show the triangle on the right-hand side. Select the triangle to go to the Notifications Screen to read messages, warnings, and faults.

2-4. Command Zone III Password Protection

NOTE: Passwords and password-protected features may differ depending on your CZIII display software version number. The CZIII display software version can be found under SETUP → UPDATE DISPLAY as the “current application version”.

Many features of Command Zone III are password protected.

2-4.1 Passwords for CZIII Versions Prior to 2.04

NOTE: Passwords are manually programmed to the vehicle by Pierce. Passwords are not able to be changed or deleted by the user.

2-4.1a Administrative Password for Versions Prior to 2.04

Figure 2-3: Password Screen - Prior to Ver. 2.04



1586

Command Zone III versions prior to 2.04 may prompt the user to enter a password during actions or tasks in order to complete those tasks, such as resetting prognostics or entering diagnostics mode.

- The password is a seven-digit numerical password based on the Pierce job number.
 - For a single build truck, the password is the 5-digit Pierce job number followed by “00”. i.e. “2902300”
 - For a multi-truck order, the password is the 5-digit Pierce job number followed by the unit number. i.e. for Job 28861, truck 3, the password is “2886103”.

2-4.1b WiFi Passwords for Versions Prior to 2.04

Contact your dealer for the three passwords necessary when connecting to the truck for the first time. One password will be to connect to the WiFi network. A second and third password will be needed to gain access to the secure web page to access the Command Zone system for Firefighter access or Technician access.

WiFi Password _____

Firefighter Password _____

Technician Password _____

2-4.2 Passwords for CZIII Version 2.04 or Later

MENU → SETUP → PASSWORD

Figure 2-4: Password Screen - Ver. 2.04 or Later



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Command Zone passwords for version 2.04 or later are entered through the SETUP menu, prior to the user starting tasks such as resetting prognostics or running diagnostics mode, or having some setup menu functions available. The user is also able to change passwords and change the name of the trucks Wi-Fi network.

2-4.2a Default Passwords for Versions 2.04 or Later

NOTE: Passwords are case sensitive.

NOTE: Default passwords can be changed by the user. You must be logged in as administrator in order to change the passwords.

Wi-Fi Password

testapkey

Administrative and Maintainer Password

- The password is an eight-digit numerical password based on the Pierce job number.
 - For a single build truck, the password is the 5-digit Pierce job number preceded by “T” and followed by “00”. i.e. “T2902300”
 - For a multi-truck order, the password is the 5-digit Pierce job number preceded by “T” and followed by the unit number. i.e. for Job 28861, truck 3, the password is “T2886103”.

Mobile Password

The mobile password is a temporary password generated on command when connecting a mobile device to the vehicle’s WiFi network for diagnostic purposes. See [“Diagnostics / Debug Mode Through WiFi for Version 2.04 and Later”](#) on [page 2-20](#).

2-5. Home Screen

NOTE: See “*Home Screen*” on *page 2-14* to configure home screen.

Figure 2-5: Home Screen (Transit Mode Shown)



1509

The home screen is user-selectable through the menu set-up (*MENU* → *HOME SCREEN*). Default screen is the Transit Screen, which displays Collision Safety System, Seat Belt Monitoring, Tire Pressure, Water and Foam Tank Level. Most of the available screens are able to be set as the home screen.

2-6. Menu Screen

Figure 2-6: Main Menu

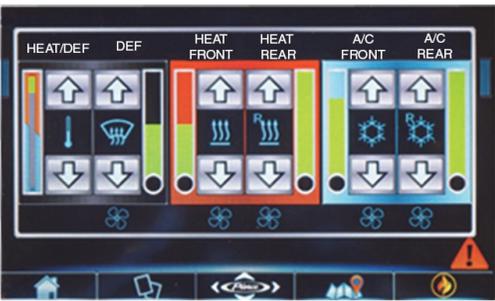


1510

The menu button displays several sub-menus to display, monitor, or configure several Command Zone functions and/or vehicle systems.

2-6.1 HVAC, Tire Info, Notifications, Do Not Move Truck, Timer Screen, Camera Screen

MENU → (desired selection)

<p style="text-align: center;">HVAC SCREEN</p>  <p style="text-align: right;">1511</p> <p>MENU → HVAC</p> <p>NOTE: Not available on all vehicle models.</p> <p>Control HVAC settings</p>	<p style="text-align: center;">TIRE INFO SCREEN</p>  <p style="text-align: right;">1512</p> <p>MENU → TIRE INFO</p> <p>Display tire pressure, temperature, and status.</p>
<p style="text-align: center;">NOTIFICATION SCREEN</p>  <p style="text-align: right;">1513</p> <p>MENU → NOTIFICATIONS</p> <p>Display warning, caution, information notifications.</p>	<p style="text-align: center;">DO NOT MOVE TRUCK SCREEN</p>  <p style="text-align: right;">1514</p> <p>MENU → DO NOT MOVE TRUCK</p> <p>Display warnings for open compartments or equipment that has not been secured or stowed for travel. This screen displays automatically when the warning becomes active. Configurable in SETUP → DMNT.</p>
<p style="text-align: center;">TIMER SCREEN</p>  <p style="text-align: right;">1515</p> <p>MENU → TIMER SCREEN</p> <p>Timer to count up or count down.</p>	<p style="text-align: center;">CAMERA MENU</p>  <p style="text-align: right;">1584</p> <p>MENU → CAMERA MENU</p> <p>Select to display the desired camera.</p>

2-6.2 Cameras

MENU → CAMERA MENU

Figure 2-7: Camera Menu



1584

The Command Zone display allows up to four camera feeds to be displayed. Access the camera menu from the menu button, and choose a camera feed to appear on the display.

NOTE: On-screen camera name text can be changed by administrators using the Camera Setup screen.

Camera inputs default as follows:

Default Name	Camera Location	Quick Switch
Input 1	Driver Side	Left
Input 2	Passenger Side	Right
Input 3	Backup/Rear	Down
Input 4	Front / Stab	Up

Camera defaults can be changed in the Camera Setup menu.

2-6.2a Camera Switching

NOTE: Applies to Command Zone Version 2.12 +

Automatic Camera Switching

NOTE: Automatic Camera Switching is temporarily disabled when the following screens are being accessed: Do Not Move Truck, Setup, or Diagnostics.

Automatic Camera Switching can be enabled through the Camera Setup menu. When enabled, this feature will automatically display and switch camera views based on certain actions or triggers: Left turn, right turn, and reverse.

Camera Quick Switching

Figure 2-8: Camera Quick Switch



N/A

From the Home screen, press the Pierce logo in the center of the navigation bar to access the Quick Switch camera screen. The camera icon appears with input numbers. Use the center navigation buttons to quickly change between camera inputs.

Exit Quick Switch by pressing the back button, or the camera icon in the center of the navigation bar.

2-6.3 Diagnostics

MENU → DIAGNOSTICS → (desired selection)

NOTE: Some diagnostics features are password protected.

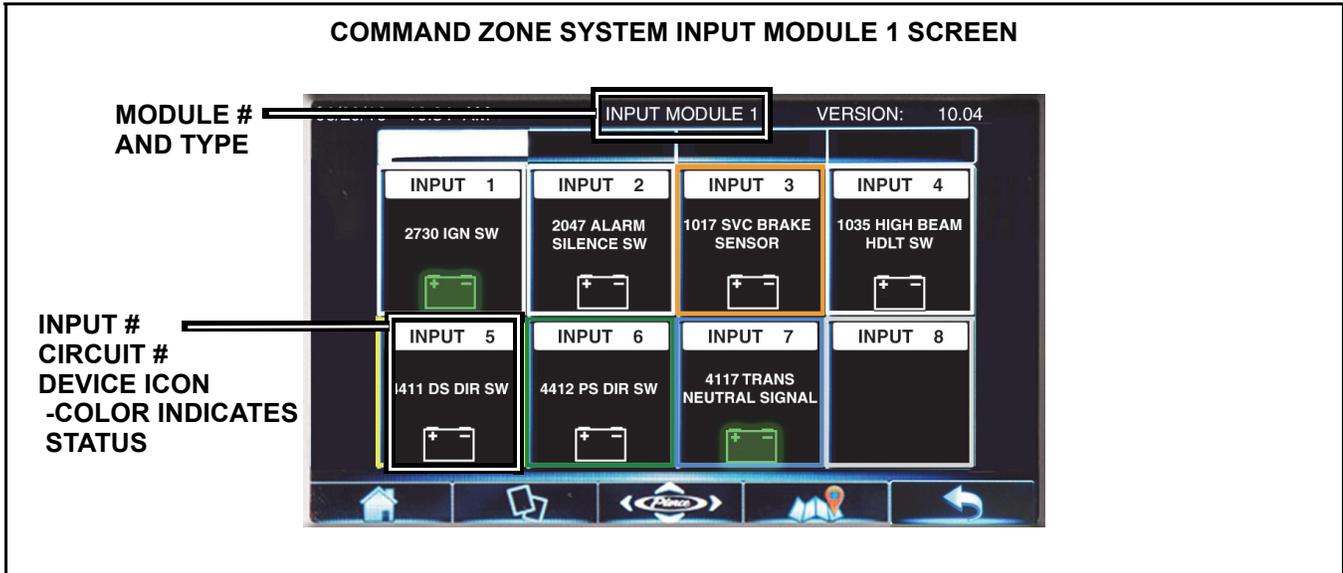
The Diagnostics sub-menu allows the operator to view faults, interlock status, load management, systems operational information, and live data.

2-6.3a Fault, Interlock, Load Manager, Live Data

<p style="text-align: center;">FAULTS SCREEN</p>  <p style="text-align: center;">06/17/15 03:01 PM</p> <p style="text-align: center;">FAULTS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ALL</th> <th>WARNING</th> <th>CAUTION</th> <th>INFO</th> </tr> </thead> <tbody> <tr> <td>SPN: 91</td> <td>FMI: 3</td> <td></td> <td></td> </tr> <tr> <td>SPN: 729</td> <td>FMI: 5</td> <td></td> <td></td> </tr> <tr> <td>SPN: 105</td> <td>FMI: 2</td> <td></td> <td></td> </tr> <tr> <td>SPN: 101</td> <td>FMI: 0</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">1516</p> <p>MENU → DIAGNOSTICS → FAULTS</p> <p>The fault screen displays any active system faults for vehicle systems such as the chassis, pump, foam system, and pressure governor.</p>	ALL	WARNING	CAUTION	INFO	SPN: 91	FMI: 3			SPN: 729	FMI: 5			SPN: 105	FMI: 2			SPN: 101	FMI: 0			<p style="text-align: center;">INTERLOCK SCREEN</p>  <p style="text-align: center;">06/17/15 03:01 PM</p> <p style="text-align: center;">PUMP INTERLOCKS</p> <ul style="list-style-type: none"> IGNITION PARK BRAKE PUMP ENGAGE <p style="text-align: right;">1517</p> <p>MENU → DIAGNOSTICS → INTERLOCK</p> <p>Displays system interlock status, or conditions that must be met before certain equipment is allowed to operate.</p> <ul style="list-style-type: none"> — Green color indicates the interlock conditions have been met. — Black indicates the interlock condition has not been met or a fault has occurred. 														
ALL	WARNING	CAUTION	INFO																																
SPN: 91	FMI: 3																																		
SPN: 729	FMI: 5																																		
SPN: 105	FMI: 2																																		
SPN: 101	FMI: 0																																		
<p style="text-align: center;">LOAD MANAGER SCREEN</p>  <p style="text-align: center;">06/17/15 03:01 PM</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ITEM</th> <th>PRIORITY</th> <th>STATUS</th> <th>ITEM</th> <th>PRIORITY</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>CAB HEAT AC</td> <td>1</td> <td>NOT SHED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CREW CAB HEATER</td> <td>2</td> <td>NOT SHED</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">1518</p> <p>MENU → DIAGNOSTICS → LOAD MANAGER</p> <p>Load management begins to shut off (shed) major electrical loads in a predetermined sequence as the electrical system voltage decreases. The Load Manager screen displays the status of each electrical function that has been selected to be load managed. Each truck is programmed to include a specific number of electrical devices which will be load managed. The load managing sequence is preset at the factory depending on the range of options and their amperage draw. This screen can only be viewed when the parking brake is set.</p>	ITEM	PRIORITY	STATUS	ITEM	PRIORITY	STATUS	CAB HEAT AC	1	NOT SHED				CREW CAB HEATER	2	NOT SHED				<p style="text-align: center;">LIVE DATA SCREEN</p>  <p style="text-align: center;">06/30/16 10:44 AM</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>SYSTEM VOLTAGE</td> <td>12.00 V</td> </tr> <tr> <td>FRONT AIR TANK</td> <td>65535 PSI</td> </tr> <tr> <td>REAR AIR TANK</td> <td>65535 PSI</td> </tr> <tr> <td>GROUND SPEED</td> <td>0 MPH</td> </tr> <tr> <td>ODOMETER</td> <td>64 M</td> </tr> <tr> <td>HIGH PRESSURE</td> <td>65535 PSI</td> </tr> <tr> <td>LOW PRESSURE</td> <td>65535 PSI</td> </tr> <tr> <td>COOLANT TEMP</td> <td>0 F</td> </tr> </tbody> </table> <p style="text-align: right;">1519</p> <p>MENU → DIAGNOSTICS → LIVE DATA</p> <p>View live operational data for alternator, engine, transmission, pump, and foam system.</p>	SYSTEM VOLTAGE	12.00 V	FRONT AIR TANK	65535 PSI	REAR AIR TANK	65535 PSI	GROUND SPEED	0 MPH	ODOMETER	64 M	HIGH PRESSURE	65535 PSI	LOW PRESSURE	65535 PSI	COOLANT TEMP	0 F
ITEM	PRIORITY	STATUS	ITEM	PRIORITY	STATUS																														
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LOW PRESSURE	65535 PSI																																		
COOLANT TEMP	0 F																																		

2-6.3b Systems

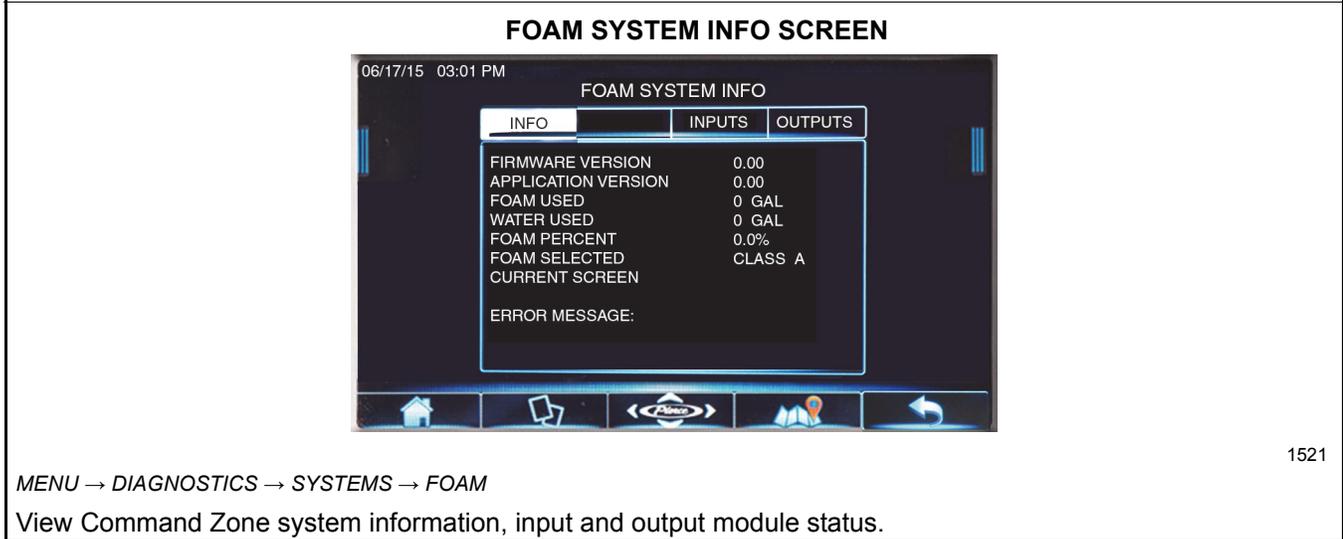
MENU → DIAGNOSTICS → SYSTEMS



1520A

MENU → DIAGNOSTICS → SYSTEMS → COMMAND ZONE

View Command Zone system information, input and output module status.



1521

MENU → DIAGNOSTICS → SYSTEMS → FOAM

View Command Zone system information, input and output module status.

The systems sub-menu allows the operator to view module status and control system information for systems such as Command Zone, Foam, and Pressure Governor.

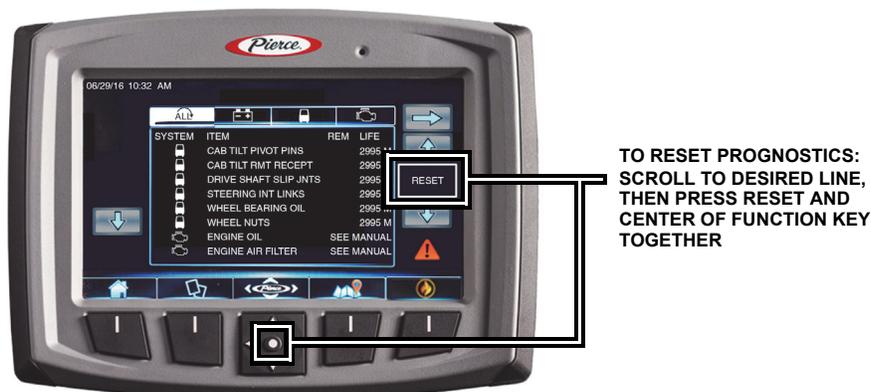
2-6.4 Prognostics

MENU → PROGNOSTICS

Prognostics is the prediction of a time when a system or component will no longer perform its function. A standard maintenance interval is set based on the expected lifespan over normal use.

The Command Zone prognostics system tracks maintenance intervals of major components based on normal operating conditions. However, certain factors such as type or frequency of use may affect the component or fluid's lifespan. This may result in adjustment of the component's remaining useful life (RUL). If your vehicle is operating outside of normal use or conditions, monitor and adjust your maintenance schedules as necessary.

Figure 2-9: Maintenance Data Resetting



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2-6.4a Resetting Prognostics

NOTE: Password protected feature. Depending on your CZIII software version, you may need to be logged in with password prior to entering the prognostics screen, or may be prompted to enter the password during the resetting sequence.

NOTE: If the Reset icon is not present, you may have to return to the setup menu and log in with your administrative password to continue.

1. Scroll down to the desired line.
2. Press the RESET icon and the center of the function control button at the same time.
3. If prompted for a password, enter the password:
 - For a single build truck, the password is the 5-digit Pierce job number followed by "00". i.e. "2902300"
 - For a multi-truck order, the password is the 5-digit Pierce job number followed by the unit number. i.e. for Job 28861, truck 3, the password is "2886103".
4. Reset additional lines as determined by your maintenance performance.

2-6.5 Setup

MENU → SETUP → (desired choice)

NOTE: Setup screens may require a password for access.

The Setup sub-menus allow the operator to configure several different settings.

Clock Setup

MENU → SETUP → CLOCK SETUP

Configure date and time in standard or military format.

Backlight Setup

MENU → SETUP → BACKLIGHT SETUP

Set backlight brightness for day and night, and the day/night transition point.

Units

MENU → SETUP → UNITS

Set measurement units to US, Metric, or Imperial

Transit Gauges

MENU → SETUP → TRANSIT GAUGES

Configure transit gauges for display on the Transit Mode screen.

Scene Gauges

MENU → SETUP → SCENE GAUGES

Configure scene gauges for display on the Fire Scene Screen.

Language

MENU → SETUP → LANGUAGE

Select the language displayed on the Command Zone display screen.

Blackout Mode

MENU → SETUP → BLACKOUT MODE

Configure the blackout mode operation of the display. When enabled, the blackout mode will turn off the display when the parking brake is released, reducing the amount of light the driver is exposed to while driving, especially at night. The screen will reactivate automatically if an alarm becomes active.

Camera

MENU → SETUP → CAMERA → CHANNEL

The camera setup screen is used to control video inputs. Select a camera channel to go to the configuration screen, at which point the brightness, saturation, contrast and hue can be configured for each camera on that channel. Changes made to these settings are only reflected on the video screen.

Log In / Password

MENU → SETUP → PASSWORD

Command Zone III versions 2.04.00 and later have a password login and set-up screen to enter or change passwords. Many SETUP menu functions will be hidden until logging in with the administrative password. Refer to [“Passwords for CZIII Version 2.04 or Later”](#) on [page 2-5](#).

Time Zone

MENU → SETUP → TIME ZONE

Allows the user to select a time zone and set the time to automatically adjust for daylight savings time.

Update Display

MENU → SETUP → UPDATE DISPLAY

Displays software and firmware version numbers. Allows user to update Command Zone software. Refer to service group “Command Zone III Module Update Procedure,” Group 0950-P-011 in the service manual for instructions.

Notification Settings

MENU → SETUP → NOTIFICATION SETTINGS

In CZIII version 2.04 or later, allows the user to update notification settings.

Controls Setup

MENU → SETUP → CONTROLS SETUP

In CZIII version 2.12 or later, allows the user to set or configure controls functions such as reverse warning lights.

DNMT Setup

MENU → SETUP → DNMT SETUP

In CZIII version 2.12 or later, allows the user change the DNMT screen from a dynamic (rotating) to static (fixed).

Maintenance Setup

MENU → SETUP → NOTIFICATION SETTINGS

In CZIII version 2.12 or later, allows the user to update or adjust maintenance intervals.

Virtual Button Setup

MENU → MAINTENANCE → VIRTUAL BUTTON SETUP

NOTE: Virtual Button Setup will change the location of the control on the virtual or redundant panel only. The physical truck-mounted panel will retain its normal configuration.

Figure 2-10: Virtual Button Setup Screen



1525

Virtual Button Setup allows the operator to adjust the function of the virtual or redundant panel controls.

1. Select the panel you wish to configure.
2. On the panel graphic, select the button you wish to configure. The selection highlights in green.
3. Scroll through the available options and select the function you wish to configure for your desired button.
4. Select save. The desired function should display in the chosen location of the panel graphic.

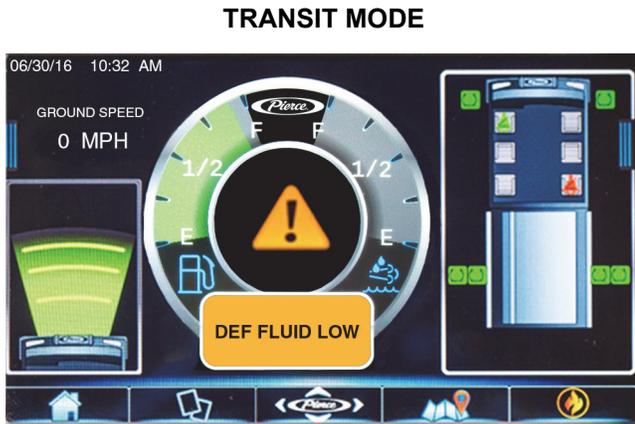
OPERATION

Home Screen

MENU → SETUP → HOME SCREEN

NOTE: This feature may be password protected.

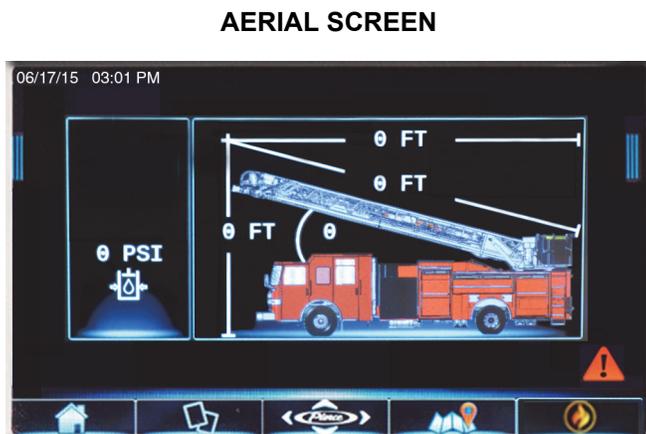
Figure 2-11: Common Home Screens



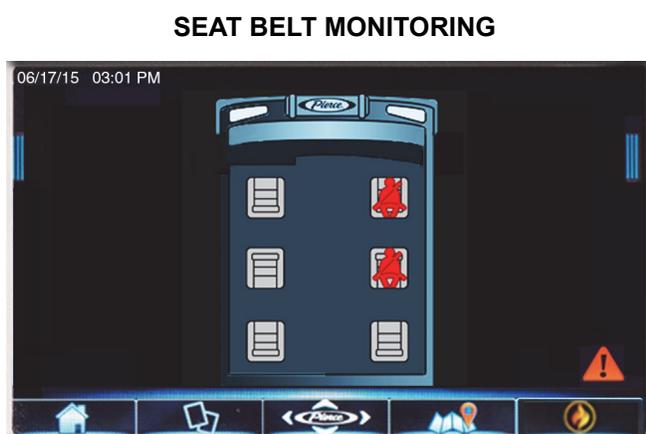
MONITOR WATER, FOAM TANK STATUS
MONITOR COLLISION WARNING SYSTEM
MONITOR SEAT BELT USAGE



MONITOR TIRE PRESSURE, TEMP,
AND STATUS



MONITOR AERIAL STATUS AND POSITION
MULTIPLE AERIAL SCREENS AVAILABLE



MONITOR OCCUPANT SEAT BELT USAGE

1509, 1512, 1526, 1527

The user can set any available screen as the Home Screen. The Home Screen is always accessible by pressing the Home icon on the display.

2-7. Fire Scene Screen

NOTE: See “*Scene Gauges*” on [page 2-12](#) to configure Fire Scene screen.

Figure 2-12: Fire Scene Screen

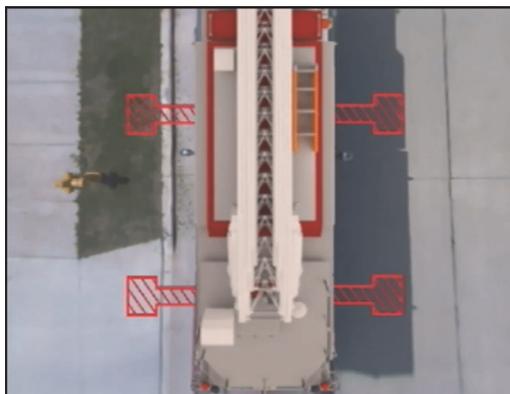


1528

The Fire Scene screen is always accessible from the home screen and most other screens. It displays vital information on the fire fighting system including water and foam tank levels, flow rates, pump temperature, intake pressure.

2-8. Outrigger Placement

Figure 2-13: Outrigger Placement

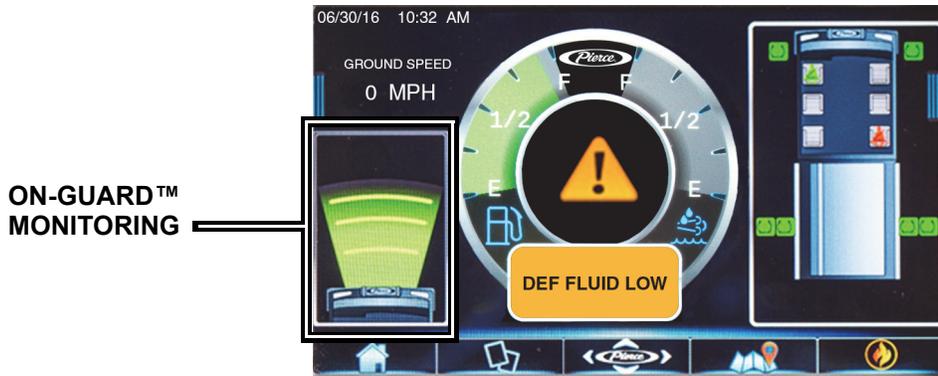


1529

The optional outrigger placement system uses camera images and lasers to help place the outriggers in position. Lasers mark the ground with a “X” for stabilizer pad location. The CZIC display module will display an overhead view of the truck depicting the placement of the outriggers.

2-9. Collision Safety

Figure 2-14: Collision Safety System



1509

The (optional) Meritor-Wabco On-Guard™ Collision Safety System integrates its graphical display onto the Command Zone screen. On-Guard detects object up to 650ft ahead of the vehicle, and detects near-range objects in adjacent lanes, and assists the driver in responding to hazardous road situations. Refer “Meritor-Wabco OnGuard User’s Guide, Group 0251-V-020”, in the vehicle service manual for operating information.

2-10. Reverse Warning Lights

NOTE: Applies to Command Zone versions 2.12 and later

When enabled, when the transmission is shifted into reverse, the emergency lights will illuminate as if the Emergency Master switch was pressed. When the transmission is shifted out of reverse, the lights will extinguish. This feature is configurable to be set ON or OFF in the Controls Setup screen found in the Setup menu.

2-11. Network and GPS Connectivity

2-11.1 Networking Components

Figure 2-15: Vehicle Networking Components



TECH MODULE
 -STANDARD GPS
 -DEVICE CONNECTIVITY TO CZ

WIRELESS ROUTER (Optional)
 -STREETWISE GPS CAPABILITY
 -WIFI HOTSPOT CAPABILITY

1530, 1531

Standard and optional vehicle-mounted networking equipment offer the ability to connect the user to the vehicle's Command Zone system, GPS positioning, and cellular service.

2-11.1a Tech Module

The tech module broadcasts a secure WiFi signal which can be accessed by up to five wireless devices for connectivity to the Command Zone system. The tech module also has available GPS/Navigation capabilities, and is equipped with a USB port to download diagnostic and prognostic information.

- See [“GPS/Navigation”](#) on [page 2-21](#).
- See [“WiFi Connectivity to Command Zone”](#) on [page 2-18](#).

2-11.1b Wireless Router (optional)

NOTE: The customer must contact a cellular provider for a paid dataplan service and a SIM card to use the WiFi capabilities of the wireless router.

The (optional) wireless cellular router allows the vehicle to gain access cellular service through the customer's cellular provider's data plan. This can be used to access the customer-paid Streetwise GPS subscription service (see [“Streetwise™ CADLink Response GPS Service”](#) on [page 2-21](#)). This can also be used to turn the router into a WiFi hotspot. The router accepts a SIM card from the customer's cellular provider which is required in order to gain access to these services. This capability is available only through AT&T and Verizon as of the product launch. See your service provider for details.

2-11.2 WiFi Connectivity to Command Zone

Figure 2-16: Mobile Device Display (Tablet Shown)

COMMAND ZONE WIFI CONNECTIVITY
-SECURE CONNECTION
-CAN CONTROL UP TO
FIVE DEVICES AT A TIME
-ACCESS LEVELS FOR FIREFIGHTER
AND TECHNICIANS



1532

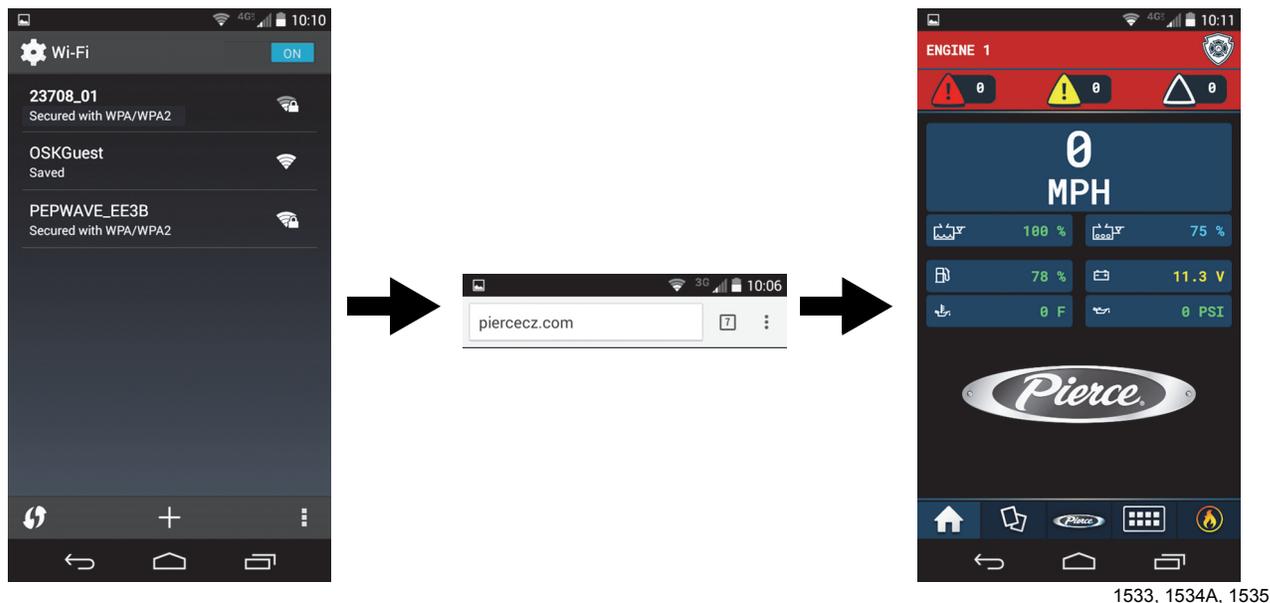
The Pierce Command Zone III system has the ability to connect to up to five wireless devices to the Command Zone system through a secure connection through the tech module. No external network is necessary as the system broadcasts its own signal.

Further, the user's connected device does not need to download an application (or app) to communicate with the truck. The tech module broadcasts a secure, password protected web page to in-range WiFi-enabled devices available to the user at two levels of interaction:

- The Firefighter or Maintainer Level allows vehicle monitoring of vehicle and firefighting systems on the apparatus.
- The Technician or Administrator Level allows diagnostic access to inputs and outputs installed on the CZ control and information system.

2-11.2a Connecting to Command Zone WiFi Network

Figure 2-17: Connecting to WiFi (Android Mobile Device Shown)



1. Enable a wireless device within range of the operational apparatus.

NOTE: The first time a device is paired to a truck, a password must be used to gain access to the WiFi feed. After the initial connection to the truck's WiFi signal, your device should auto-connect to the vehicle's WiFi signal any time it is within range of the vehicle.

2. Open your WiFi settings screen. The apparatus should be able to be seen on the device's available wireless networks page as the Pierce Job Number.
3. Connect to the apparatus using the vehicle's WiFi password.

NOTE: Some web browsers may not be compatible with the Command Zone software. Safari (Apple) and Chrome or FireFox (Android) are the recommended web browsers. Internet Explorer is not recommended.

4. Open a web browser and navigate to piercecz.com

NOTE: Depending on your vehicle's CZIII version, you may be prompted for a password before connecting to the vehicle. See *"Command Zone III Password Protection"* on page 2-4.

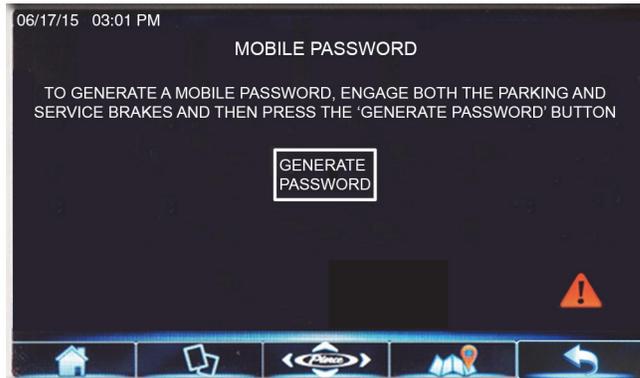
5. If prompted, enter the password to continue.
6. Once logged in, you can add a shortcut icon to your home screen for easy connectivity.
7. To log out, press the shield icon in the upper right corner of the screen.

2-11.2b Diagnostics / Debug Mode Through WiFi for Version 2.04 and Later

NOTE: Follow this procedure to connect to CZIII systems version 2.04 and later.

Depending on your CZIII software version, you may need to complete a procedure with password in order to run diagnostics / debugging features on your WiFi-connected device.

Figure 2-18: Mobile Password Screen - Ver. 2.04



1589

NOTE: Someone must be in the driver's seat and able to operate the service and parking brakes for this procedure.

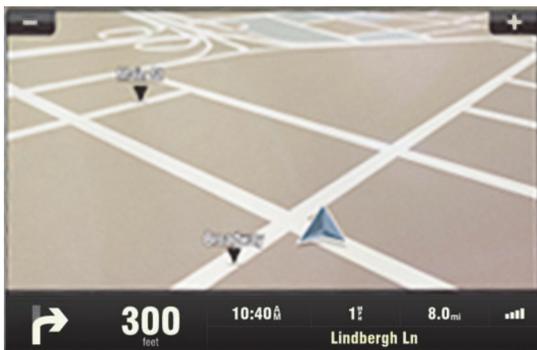
1. Log in to Command Zone on the mobile device.
2. In the vehicle's Command Zone display, go to SETUP menu, select Passwords and enter the password to log in as administrator.
3. Return to the Passwords screen and select Mobile.
4. Press and **hold** the service brake, and set the parking brake.

NOTE: The temporary password and connection will be live for a two-hour time limit.

5. Select Generate Password. A temporary password appears.
6. On the mobile device, a square icon will appear in the upper right hand corner. Select the icon.
7. Enter the temporary password to connect the mobile device with access to diagnostics.

2-11.3 GPS/Navigation

Figure 2-19: GPS Screens



1536, 1537

2-11.3a Turn-By-Turn GPS Mapping

A GPS-guided turn-by-turn mapping application is available through the touchscreen display. Destinations are manually entered into the system.

See “Streetwise Navigation System (Standard),” Group 0950-V-001 in the vehicle service manual for operating instructions (if equipped).

2-11.3b Streetwise™ CADLink Response GPS Service

N/A

NOTE: The customer must contact Streetwise CADLink to set up their service and a cellular provider for a mobile dataplan service.

Optional vehicle equipment including a router enables Command Zone with the ability to use the Streetwise™ CADlink response service. Streetwise™ CADLink response software is a customer-paid subscription service which can receive and display not just GPS navigation information but also real-time dispatch data, situational awareness and resource information such as building info, waypoints, and hydrant locations, and more.

Streetwise CADlink operating requirements include:

- Optional vehicle-mounted router.
- Paid subscription service from Streetwise CADlink.
- Paid dataplan service and SIM card from a cellular provider. (SIM card inserts into the vehicle mounted router).
 - See “Pepwave MAX and Surf Wireless Router,” Group 0995-V-012, in the vehicle service manual, or the manufacturer’s user manual, for router set-up instructions.
 - See “Streetwise Cadlink Navigation System (Advanced),” Group 0995-V-002, in the vehicle service manual for operation instructions.



General Information

3-1. Introduction

Command Zone™ III is a solid-state, electronics based, control system which achieves advanced operation and control of the vehicle components. A fully computerized vehicle network, consisting of electronic modules located near their point of use, reduces wire harness lengths and improves reliability.

The system includes multiplexing, solid state electronics, and an optional Command Zone™ Information Center display available in the cab, on the pump panel, and on the aerial apparatus.

The system is easy to use, robust and reliable - sending multiple electrical signals through a datalink cable rather than the typical wire harness with individual wire circuits.

3-1.1 Benefits of Command Zone™

- Improved vehicle reliability; fewer wires and electrical connections mean fewer opportunities for problems.
- Vehicle-specific I/O (input & output) sheets.
- Allows electronic systems, including the engine and transmission to share vital information.
- Load management and sequential switching are standard features on all vehicles with Command Zone™.
- Hardware components (modules) are interchangeable.
- Solid-state electronics eliminate the need to replace relay fuses or circuit breakers.
- Optional LED diagnostics are integrated into the modules and make troubleshooting easier. In addition to the on-board diagnostics software, the status of each circuit can now be visually examined by monitoring the LED status on the modules.

3-1.2 Mission Critical Programming

The Command Zone™ Advanced Electronics and Control system utilizes patented Mission Critical Programming. This is a Pierce developed program only available on the Command Zone™ system that utilizes redundant safety systems similar to the aviation industry.

Patented programming will maintain operational status or default to the predetermined safe mode in the event of a system fault that affects a critical operation.

Major Components

3-2. Command Zone™ Modules

3-2.1 Control Module

Figure 3-1: Control Module



N/A

The control module decodes information sent to it via the data link and sends electrical instructions, predetermined by programming, to the appropriate module via the data link.

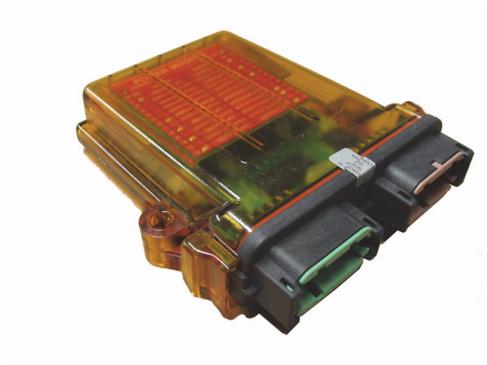
Contains programming that is specific to each truck.

Black case contains two diagnostic LED lights:

- Green LED is on when the module has power/ground.
- Red LED will flash in a heartbeat fashion when the module is online or operational.

3-2.2 Power Module

Figure 3-2: Power Module

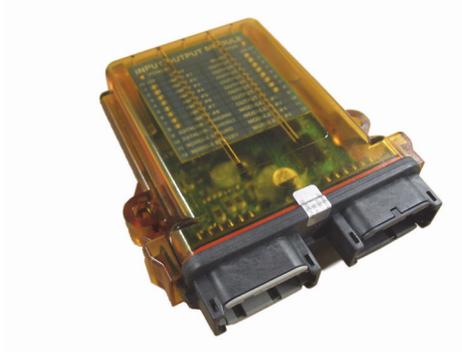


N/A

The power module is used to supply power to various devices. D-series modules have eight 10 amp outputs. Outputs can be coupled up to 30 amps.

3-2.3 Input/Output Module

Figure 3-3: Input/Output Module



N/A

The input/output module is used for sensing digital and/or analog signals and controlling low current devices.

3-2.4 Input Module

Figure 3-4: Input Module

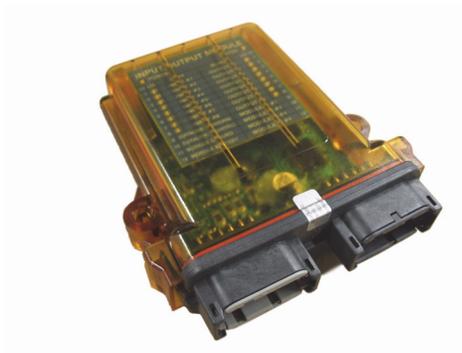


N/A

The input module is used for sensing digital and/or analog signals.

3-2.5 Output Module

Figure 3-5: Output Module



N/A

The output module outputs low current grounding outputs to control various devices/indicators. All outputs are 500Ma sinking (grounding).

3-2.6 Switch Input/Output Module (Switch Module)

Figure 3-6: Switch Module



N/A

Command Zone™ switch panels are completely multiplexed. The switch panel is a combination switch panel and an I/O module.

The main Command Zone™ Data Link travels through each switch assembly. Switch panel assignments are achieved by setting the dial on the back of the switch assembly.

3-2.7 Tech Module

Figure 3-7: Tech Module



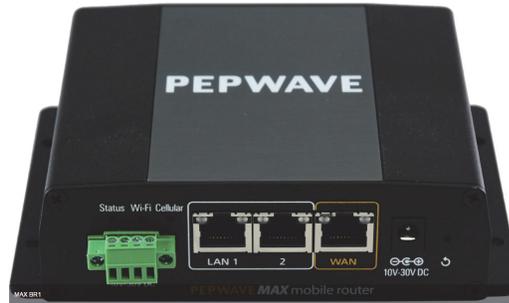
N/A

The Command Zone III utilizes a “tech module”. The tech module includes a data logger which can record, archive, and simplify the retrieval of vehicle faults, warnings, cautions. The module is equipped with a USB port for downloading data from the module.

The tech module is also GPS and WiFi capable, acting as a secure wireless access point for up to five connections to the Command Zone system. No external network (i.e. cellular or internet service) is necessary as the module broadcasts it's own secure network.

3-3. Wireless Router

Figure 3-8: Wireless Router



N/A

NOTE: The customer must contact a cellular provider for a paid data plan service and a SIM card to use the WiFi capabilities of the wireless router.

The optional wireless cellular router allows the vehicle to gain access to cellular service through the customer’s cellular provider’s data plan. This can be used to access the customer-paid Streetwise GPS subscription service, and may also be used to turn the router into a WiFi hotspot.

3-4. Command Zone™ Information Center (CZIC)

Figure 3-9: Command Zone Information Center



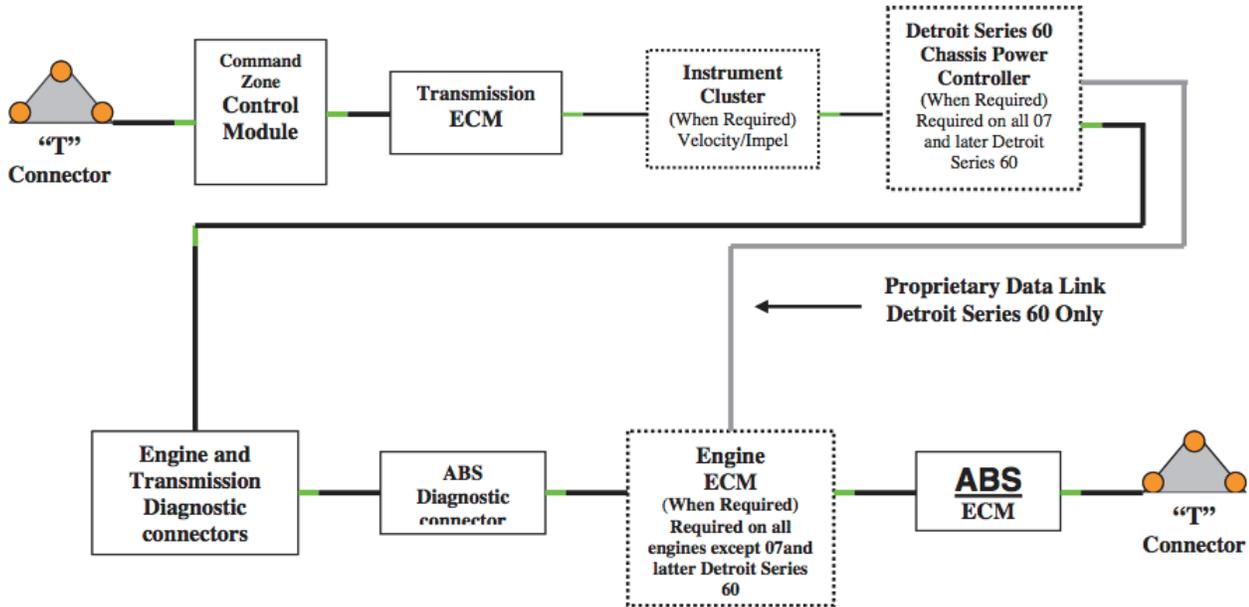
N/A

Command Zone™ Information Centers (CZIC) are found on the main instrument panel, on the pump panel (most trucks), and on some Pierce aerial devices. They are the operators’ main source of information and communication with Command Zone™ system.

Command Zone™ III may also be accessed through up to five wireless devices through a secure wireless connection.

3-5. Data Links

Figure 3-10: J1939 Drive Line Data Link



N/A

3-5.1 J1939 DRIVE LINE DATA LINK

The SAE J1939 data link is standard on all highway trucks. The J1939 data link is available for communications with transmission, Anti-lock Brake System (ABS) and Traction Control (TC) systems, as well as instrument clusters and other devices that use the J1939 communication protocol.

The green heat shrink on the J1939 data link indicates that the data link is the driveline data link.

3-6. Power Distribution Areas

There are seven typical power distribution areas.

NOTE: The pump house distribution will be located in the front of the pump house. (In most cases it will be mounted on the passenger side).

- The rear distribution in most cases will mount in the center of the rear tailboard. In some cases it may be positioned to the outboard side of the driver rear tailboard or mounted behind the fuel tank.

3-6.1 P/S Distribution Area

This distribution box contains main breaker(s), relay(s), fuse panel, transmission ECU and power & ground studs.

Standard modules found in the P/S distribution area:

- (1) control module
- (1) I/O module
- (2) power modules
- (1) tech module (not including Arrow XT and Quantum)
- (1) wireless router (not including Arrow XT and Quantum)

3-6.2 D/S Distribution Area

This distribution box contains power & ground through studs in firewall. Pressure switches are also located low in this area.

Standard modules found in the D/S distribution area:

- (1) input module
- (1) output module
- (1) power module
- (1) I/O switch assembly (DS lower IP)

3-6.3 Cab Visor Distribution Area

Circuit breakers for the evaporator and condenser are located in the overhead visor distribution. The area is accessible by dropping center section of visor.

Standard modules found in the cab visor distribution area:

- (2) power modules

Power & ground studs can also be found in this area.

3-6.4 Crewcab Overhead Area

Standard modules found in the crewcab overhead distribution area:

- (1) power module

Power & ground studs can also be found in this area.

3-6.5 Behind Driver's Seat Area

Standard modules found in area behind the driver's seat (Arrow XT and Quantum only):

- (1) tech module

- (1) wireless router

3-6.6 Chassis Battery Box Distribution Area

Standard modules:

- (1) power module
- (1) input module
- (1) relay module

Power & Ground studs are located inside frame rail. Additional aerial modules will be located at the battery box.

3-6.7 Battery Box Plate (Inside DS Frame Rail)

This distribution box contains:

- Bussman distribution: Engine, Transmission, ABS, Cab Lift relays and fuses.
- Start solenoid & fan clutch solenoid
- Data link module
- Power stud
- Location for Isolated Battery connection.

3-6.8 Pump Panel Distribution Area

This distribution area is only present when the truck has a pump. Pump house modules will be installed and used to drive panel throttles and other pump related items.

The pump panel harness is connected to the engine harness.

Standard modules found in the pump panel distribution area:

- (1) power module
- (1) I/O module

3-6.9 Rear Distribution Area

Tail/brake/directional/marker/back up lights come from the chassis battery box distribution area. The main harness is connected to the rear substructure. The rear substructure is connected to the power distribution box.

The datalink is included in these harnesses. Aerials get the same rear distribution box as a pumper.

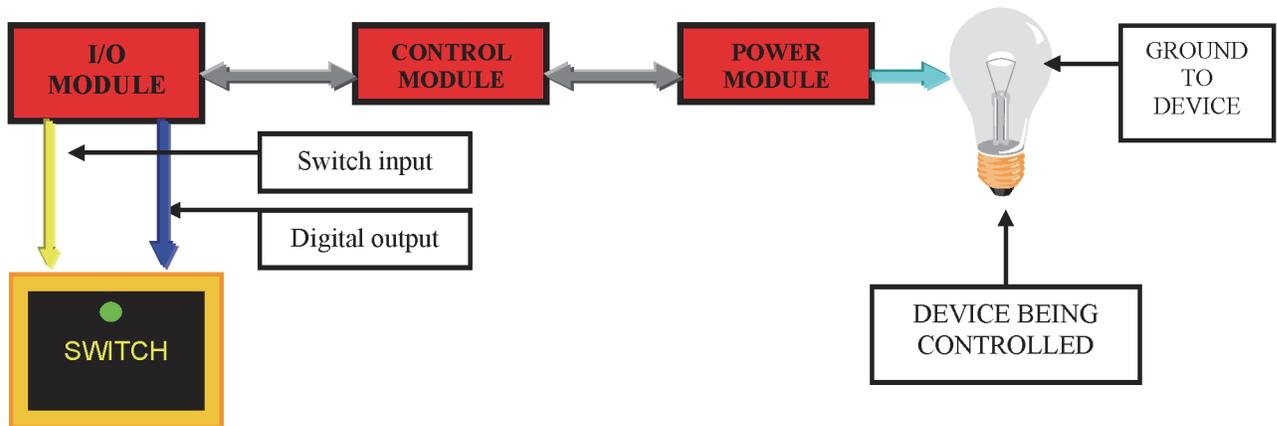
Standard modules found in the rear distribution area:

- (3) power modules

Power & ground studs can also be found in this area.

Principles of Operation

Figure 3-11: Multiplex System Components



N/A

3-7. Multiplex System Operation

The functionality of a simple multiplex system is explained in the following paragraphs. While the system explained in this example has a single I/O Module and Power Module, typical vehicles have several modules located in various places on the truck.

1. The operator activates a switch (rocker or membrane) for a specific function. This information is received by the I/O Module (input), which transfers this information to the data link.
2. The change in switch position information is received by the Control Module, which interprets the information verifies that all necessary interlocks have been satisfied (if applicable).
3. The Control Module then sends indicator light information (via the data link) back to the I/O Module, which then causes the I/O Module to turn on the indicator located on the switch.
4. At the same time the indicator light information is processed, the Control Module determines which Power Module output should be turned on and transfers this information to the data link.
5. The Power Module - constantly monitoring the information on the data link - interprets the Control Module information and grounds the appropriate output pin location on the Power Module, which in turn activates the device.

NOTE: The device being controlled is protected from the Power Module with a protected circuit.

3-8. Software

3-8.1 Command Zone Diagnostics

(For CZ3 systems without the CZIC display) Command Zone™ Diagnostics (CZD) is a tool used to assist in troubleshooting the Command Zone™ system. The Command Zone™ system uses inputs, outputs, and communications for control. System inputs and outputs can be monitored using CZD.

All that is required is CZD software installed on a PC and a Pierce interface cable (RS232 cable) or (USB) to connect to the truck.

Glossary

3-9. Glossary of Common Terms

ABS: Anti-lock Brake System

Analog Input: A variable input signal, typically 0-5 VDC, 0-18 VDC, or 10-180Ohms.

Buss Bar: A conducting bar that carries heavy currents to supply several electric circuits.

CAN: Controller Area Network.

Control Module: The Command Zone™ module, sometimes called a CPU,

ECM, ECU or “brain box”: Used to control the CAN network.

CZD: Command Zone™ Diagnostics. Software used on IBM compatible computers (Windows 95 and beyond) to perform diagnostics and other functions.

CZIC: Command Zone™ Information Center. The display used to show the operator the current status of components, alarms, fluids etc.

Data Link: A communication link between Modules.

Data Link Module: A junction box used to join multiple modules on to the J1939 data link.

Data Link Plug: Used to plug any unused openings of the “T” connectors.

Data Panel Switch: A panel of 8 momentary contact switches and/or indicators.

Diagnostic LED’s: Colored indicators on each Pierce module used for troubleshooting B+ power and module functionality.

Digital Input: A signal that is either on or off, BATT or GND.

EMI: Electromagnetic Interference. This is energy that could cause a wide range of undesirable effects.

Hard Toggle Switch: A maintained contact switch, which remains in the position it was toggled.

Input Module: A Command Zone™ Module used for sensing digital and/or analog signals.

Input/Output Module: A Command Zone™ Module used for sensing digital and/or analog signals and controlling low current devices.

I/O Sheets: Input/Output Sheets. These contain information about Command Zone™ modules in each power distribution of any given multiplexed truck. These sheets determine device amperages, show interlock information and designate inputs and outputs. The assembly of the truck’s electrical system and programming is based on this information.

Interlocks: Predetermined requirements which must be achieved before a function operates.

J1587: A twisted pair of wires (data link) used for communication and PRO LINK diagnostics of ENGINE and ABS. (Pierce application).

J1939: A twisted pair of wires with shielding (data link) used for information and control on multiplexed trucks. It is also used for transmission diagnostics with a PRO LINK. (Pierce application). J1939 is the SAE approved standard CAN protocol for heavy-duty trucking.

LED: Light Emitting Diode. This is used for an indicator on the gauge panel and switch panel.

Module: Electronic device, which communicates over a data link network and interfaces with basic electrical devices on a truck.

Momentary Switch: A momentary contact switch that remains on until it is released.

Multiplexing: A technique, which uses a small number of electrical wires to carry a large number of electrical signals. Pierce's multiplexing operates on a CAN with modules located in power distribution locations.

MUX: Multiplex (see Multiplexing).

Output Module: A Command Zone™ Module which outputs low current grounding outputs to control various devices/indicators.

Power Distribution Areas: Locations on each truck that contain modules, Dill blocks and hardware used to monitor and/or control devices.

Power Module: A Command Zone™ Module used to supply power to various devices.

PWM: Pulse Width Modulation. Allows the capability of varying the apparent voltage of a load by turning an output on and off very quickly.

Relay Module: A small device consisting of five independent micro-relays which transfer signals from the Command Zone™ system to the engine ECM.

Router: A device which connects computers or local networks to the internet or cellular service.

RS232 Cable: A serial interface cable used to connect the Command Zone™ system to a computer. (Cable Supplied by Pierce with each truck.)

Sinking: The equivalent of a ground signal.

Soft Toggle Switch: A momentary contact switch, which when combined with programming, simulates latching circuits. The switch will activate/deactivate devices based on switch transitions from on to off or off to on. Also used for all 3-way switching.

Sourcing: The equivalent of a B+ signal.

“T” Connector: A component of the data link used to connect individual modules to the main trunk of data link.

Tech Module: A Command Zone™ module that logs, records, and archives data, provides prognostics, and acts as a wireless access point.

Terminating Resistor: A plug used on the J1939 data link with 120 ohms of resistance across pins “A”, and “B”. It is identified by the three dots on its face.

For Additional Information

3-10. Factory Training

Pierce Customer Service offers factory Command Zone™ maintenance training at our Appleton, Wisconsin facility and various locations across the continental United States.

This training course provides instruction on the following concepts:

- Command Zone™ Rev D system terminology;
- Why specific components are used;
- Component locations and their functions;
- Purpose and use of an Input/Output sheet;
- Explanation of interlock functions;
- Instructions on the use of Command Zone™ software;
- Suggested test equipment and spare parts.

During this training, participants will have the opportunity to hands on troubleshoot and repair faults that have been inserted in new vehicles. Each student will leave the class with a complete understanding of the Command Zone™ multiplex system, along with copies of all training documentation for future reference.

For additional information on this factory training, see the *“Training/Schedules & Registration”* link at www.pierceparts.com.



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