

CODE 3 CZ0000 Universal Control Head



CODE 3 CZ0000 Universal Control Head Instruction Manual

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///CODE 3®

CODE 3 CZ0000 Universal Control Head



Product Information

Specifications

- Size: 5.9in x 2.8in x 0.8in
- Input Voltage: 12-24VDC
- Rated Output Current: 130mA per wire
- Temp. Range:

Installation and Mounting

Unpacking & Pre-Installation:

Carefully remove the product and place it on a flat surface. Examine the unit for transit damage and locate all parts. If damage is found or parts are missing, contact the transit company or CODE 3. Do not use damaged or broken parts.

Ensure the product voltage is compatible with the planned installation.

Installation:

1. Apply bracket or Velcro included with the controller to the backside of the controller according to the preferred method of mounting.
2. If using a SIB, plug connector from the controller into matching connector on SIB device.
3. The SIB device will need a configuration from the Matrix software so that the buttons on the controller operate according to the user's preferences.

Usage Instructions

Operator Training

Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.

Working with Electrical Connections

Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.

Grounding

This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.

Placement and Installation

Proper placement and installation is vital to the performance of this warning device. Install this product so that the output performance of the system is maximized and the controls are placed within convenient reach of the operator so that they can operate the system without losing eye contact with the roadway.

Daily Check

It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.

Driver Responsibility

The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.

Authorized Use

- This equipment is intended for use by authorized personnel only.
- The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations.
- The manufacturer assumes no liability for any loss resulting from the use of this warning device.

FAQ

- Q: What is the size of the control head?
A: The control head has dimensions of 5.9in x 2.8in x 0.8in.
- Q: What is the input voltage for this product?
A: The input voltage range for this product is 12-24VDC.
- Q: What is the rated output current per wire?
A: The rated output current per wire is 130mA.

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.

WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!

Do not install and/or operate this safety product unless you have read and understood the safety information contained in this manual.

- Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
- Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
- This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
- Proper placement and installation is vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that they can operate the
- system without losing eye contact with the roadway.
- Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or

located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.

- It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
- The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
- This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations.
- The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Specifications

- Size:
 - 5.9in x 2.8in x 0.8in
- Input Voltage:
 - 12-24VDC
- Rated Output Current:
 - 130mA per wire
- Temp. Range:
 - 40°C to 65°C
 - 40°F to 149°F

Installation and Mounting

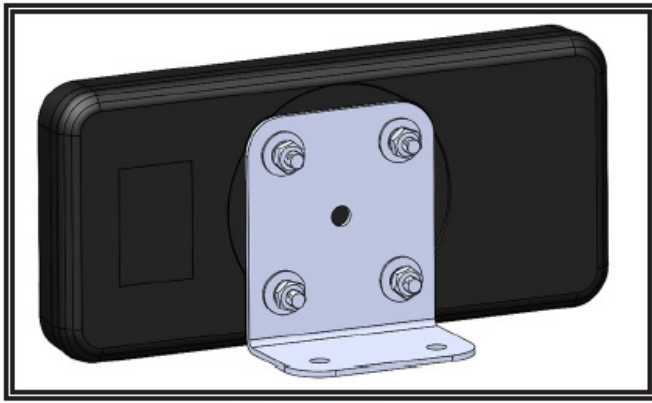
Unpacking & Pre-Installation:

Carefully remove the product and place it on a flat surface. Examine the unit for transit damage and locate all parts. If damage is found or parts are missing, contact the transit company or CODE 3. Do not use damaged or broken parts.

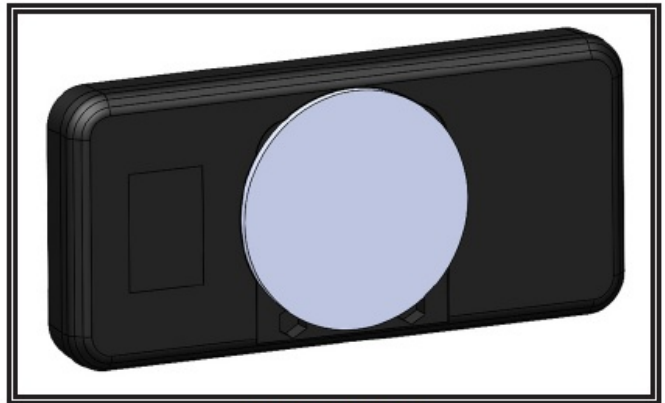
Ensure the product voltage is compatible with the planned installation.

Installation:

- Apply bracket or Velcro included with the controller to the backside of the controller according to the preferred method of mounting.
- If using a SIB, plug connector from the controller into matching connector on SIB device.
- The SIB device will need a configuration from the Matrix software so that the buttons on the controller operate according to the user's intentions.
- If using discrete wires, use adapter and install as desired



Bracket Mounting



Velcro Mounting

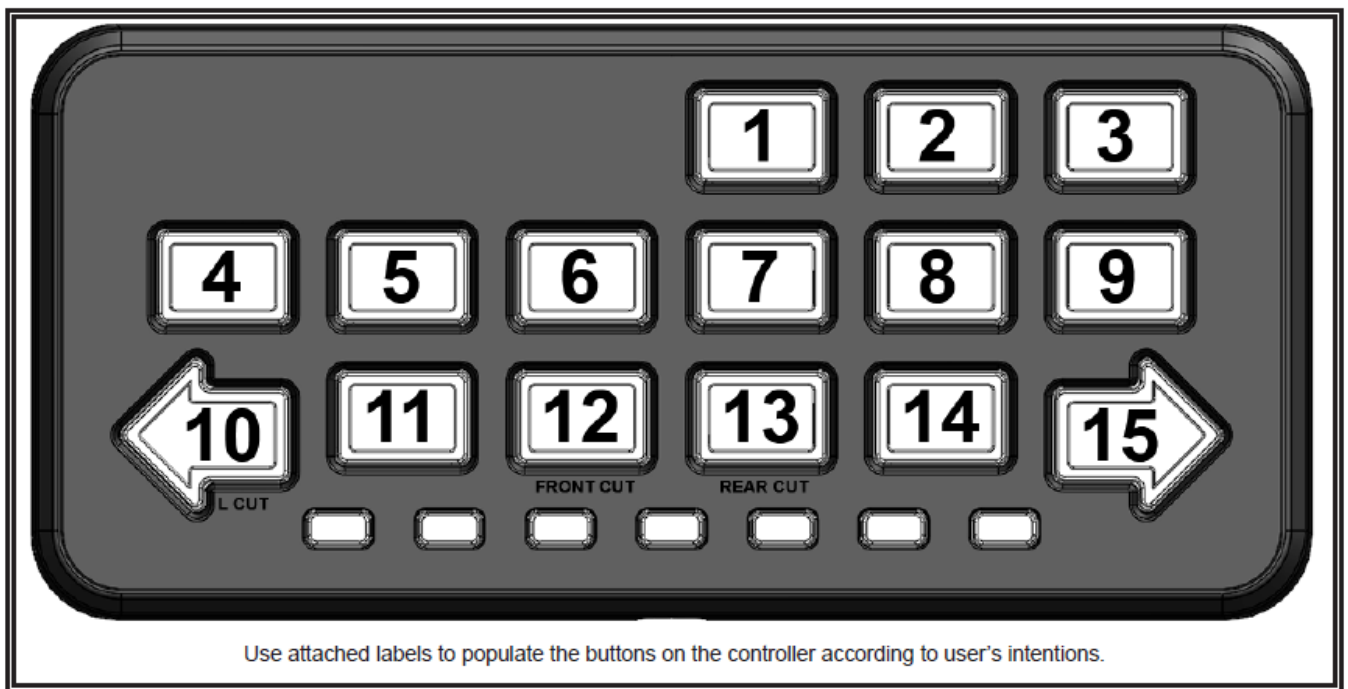
Wiring Instructions

- The following table indicates the activation of the output wires from the control head regarding the button pressed and whether it comes from a short press (<2 seconds) or a long press (>2 seconds). The corresponding button numbers are shown in the figure below.
- A long press of button three puts the controller into backlighting mode. After ten seconds, the backlight will turn off and a single button press turns on the button and the backlighting. This mode is intended to reduce glare during nighttime operation.
- An additional Red wire is available for an ignition wire for the SIB.
- Use included pigtail harness if directly wiring the control head to a device other than the SIB. Remove pigtail connector harness if directly wiring to a SIB.
- Each output wire is rated at 130mA each. To power a high power device, use a suitable relay.

Control Head			SIB
Button	Activate	Output Wire	Input Wire
1	Short Press	Green/Black	Green/Black
2	Short Press	White/Black	White/Black
3	Short Press	Red/Black	Red/Black
4	Short Press	Brown/White	Brown/White
5	Short Press	Green/White	Green/White
6	Short Press	Blue/White	Blue/White
7	Short Press	Gray/White	Gray/White
8	Short Press	Violet/White	Violet/White
9	Short Press	Orang/White	Orang/White
10	Short Press	Pink	Pink
11	Short Press	Pink/Black	Pink/Black
12	Short Press	Yellow/Black	Yellow/Black
13	Short Press	Green	Green
14	Short Press	Blue	Blue
15	Short Press	Orange	Orange
10	Long Press	Brown	Brown
12	Long Press	Violet/Black	Violet/Black
13	Long Press	Blue/Black	Blue/Black

Button Functions

- Button 10: When short-pressed, the LED indicator lights on the bottom of the control head will turn on indicating Left Arrowstik. When long-pressed, the Left Cut (Brown) wire will be activated/deactivated and the button will blink on and off.
- Button 12: When long-pressed, the Front Cut (Violet/Black) wire will be activated/deactivated and the button will blink on and off.
- Button 13: When long-pressed, the Rear Cut (Blue/Black) wire will be activated/deactivated and the button will blink on and off.
- Button 15: When short-pressed, the LED indicator lights on the bottom of the control head will turn on indicating right arrowstik.
- Button 10 & 15: When both are activated together, the LED indicator lights on the bottom of the control head will show a Center Out pattern.



EZ0000/CZ0000 Controller				16/27 Series TR		
Butt on	Activate	Output Wire	Note	Wire	Function	Note
1	Short Press	Green/Black		Blue	Level 1	
2	Short Press	White/Black		Orange	Level 2	
3	Short Press	Red/Black		Yellow	Level 3	
4	Short Press	Brown/White		Light Blue	Work Light	
5	Short Press	Green/White		(open)		
6	Short Press	Blue/White		(open)		
7	Short Press	Gray/White		(open)		
8	Short Press	Violet/White		Green	Pattern Select	
9	Short Press	Orange/White		White	Dim	
10	Short Press	Pink		(open)		
11	Short Press	Pink/Black		(open)		

12	Short Press	Yellow/Black		(open)		
13	Short Press	Green		(open)		
14	Short Press	Blue		(open)		
15	Short Press	Orange		(open)		
10	Long Press	Brown	DS Cut	(open)		
12	Long Press	Violet/Black	Front Cut	(open)		
13	Long Press	Blue/Black	Rear Cut	(open)		
n/a		Red	12VDC source with inline fuse	Red 10AWG	Power	12VDC source with inline fuse
n/a		Black	To ground	Black 10AWG	Ground	To ground

EZ0000/CZ0000 Controller				16/27 Series CC		
Button	Activate	Output Wire	Note	Wire	Function	Note
1	Short Press	Green/Black		Green/Black	Level 1	
2	Short Press	White/Black		White/Black	Level 2	
3	Short Press	Red/Black		Red/Black	Level 3	
4	Short Press	Brown/White		Black 22AWG	TD Flash	
5	Short Press	Green/White		Orange/Black	Take Down	
6	Short Press	Blue/White		Green	Cruise	
7	Short Press	Gray/White		(open)		
8	Short Press	Violet/White		(open)		
9	Short Press	Orange/White		Blue	Dim	
10	Short Press	Pink		Red 22AWG	Left Arrowstick	

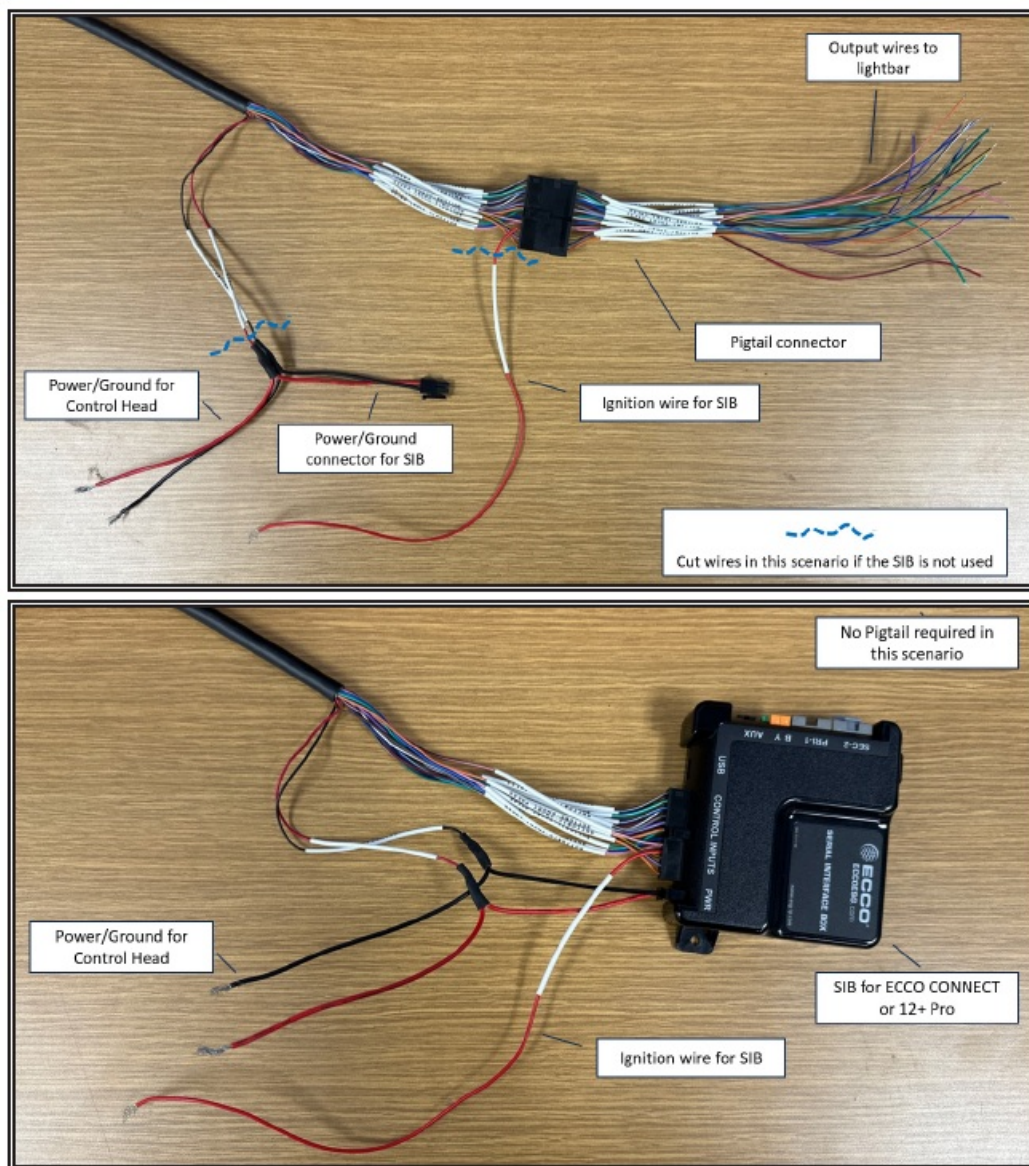
11	Short Press	Pink/Black		Black/White	Left Alley	
12	Short Press	Yellow/Black		Blue/White	Alley Flash	
13	Short Press	Green		Black/Red	Pattern Select	
14	Short Press	Blue		Red/White	Right Alley	
15	Short Press	Orange		Orange	Right Arrow stik	
10	Long Press	Brown	DS Cut	White	Driver Side Cut	
12	Long Press	Violet/Black	Front Cut	Green/White	Front Cut	
13	Long Press	Blue/Black	Rear Cut	Blue/Black	Rear Cut	
n/a		Red	12VDC source with inline fuse	Red 10AWG	Power	12VDC source with inline fuse
n/a		Black	To ground	Black 10AWG	Ground	To ground

EZ0000/CZ0000 Controller				12+ Pro Vantage - Standard Wiring		
Button	Activate	Output Wire	Note	Wire	Function	Note
1	Short Press	Green/Black		Brown	Pattern 1	
2	Short Press	White/Black		Orange	Pattern 2	
3	Short Press	Red/Black		Blue	Worklights/Takedowns	
4	Short Press	Brown/White		(open)		
5	Short Press	Green/White		(open)		
6	Short Press	Blue/White		(open)		
7	Short Press	Gray/White		(open)		
8	Short Press	Violet/White		(open)		
9	Short Press	Orange/White		(open)		

10	Short Press	Pink		Yellow	Left Alley	
11	Short Press	Pink/Black		(open)		
12	Short Press	Yellow/Black		(open)		
13	Short Press	Green		(open)		
14	Short Press	Blue		Violet	Pattern Select	
15	Short Press	Orange		Green	Right Alley	
10	Long Press	Brown	DS Cut	(open)		
12	Long Press	Violet/Black	Front Cut	(open)		
13	Long Press	Blue/Black	Rear Cut	(open)		
n/a		Red	12VDC source with inline fuse	Red 10AWG	Power	12VDC source with inline fuse
n/a		Black	To ground	Black 10AWG	Ground	To ground

EZ0000/CZ0000 Controller				12+ Pro Vantage - EZMATSIB/CZMATSIB (Serial Interface Box)		
Button	Activate	Output Wire	Note	Wire	Function	Note
1	Short Press	Green/Black		Green/Black	Level 1	
2	Short Press	White/Black		White/Black	Level 2	
3	Short Press	Red/Black		Red/Black	Level 3	
4	Short Press	Brown/White		Brown/White	(open)	
5	Short Press	Green/White		Green/White	(open)	
6	Short Press	Blue/White		Blue/White	Pattern Select	
7	Short Press	Gray/White		Gray/White	(open)	

8	Short Press	Violet/White		Violet/White	(open)	
9	Short Press	Orange/White		Orange/White	(open)	
10	Short Press	Pink		Pink	Arrowstick Left	
11	Short Press	Pink/Black		Pink/Black	(open)	
12	Short Press	Yellow/Black		Yellow/Black	(open)	
13	Short Press	Green		Green	Cruise	
14	Short Press	Blue		Blue	Dim	
15	Short Press	Orange		Orange	Arrowstick Right	
10	Long Press	Brown	DS Cut	Brown	DS Cut	
12	Long Press	Violet/Black	Front Cut	Violet/Black	Front Cut	
13	Long Press	Blue/Black	Rear Cut	Blue/Black	Rear Cut	
n/a		Red	12VDC source with inline fuse	Red 10AWG	Power	12VDC source with inline fuse
n/a		Black	To ground	Black 10AWG	Ground	To ground



Troubleshooting

Problem	Possible Cause	Solution
Does not function	Poor power or ground connection	Check power and ground connection to ensure power is reaching the controller

Warranty

Manufacturer Limited Warranty and Limitation of Liability:

- The manufacturer warrants that on the date of purchase, this product will conform to the Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for sixty (60) months from the date of purchase.
- DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING
- MAINTAINED BY THE MAINTENANCE PROCEDURES OUTLINED IN THE MANUFACTURER'S

INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

Exclusion of Other Warranties:

THE MANUFACTURER MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE IMPLIED WARRANTIES FOR MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE ARE HEREBY EXCLUDED AND SHALL NOT APPLY TO THE PRODUCT AND ARE HEREBY DISCLAIMED, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ORAL STATEMENTS OR REPRESENTATIONS ABOUT THE PRODUCT DO NOT CONSTITUTE WARRANTIES.

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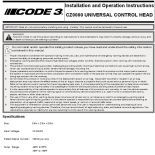
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References

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- [🌐 Home - ECCO Safety Group](#)
- [User Manual](#)

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