

Installation and Operation Instructions ECCO Connect Kit EC103

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.

- 1. 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.
- 2. Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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

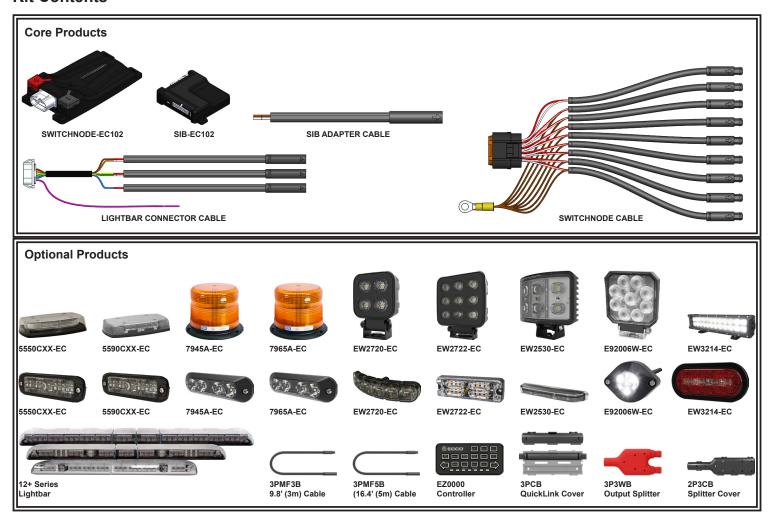
Input Voltage: 12VDC

Input Current: Varies based on hardware selected

Temp. Range: -40°C to 65°C

-40°F to 149°F

Kit Contents



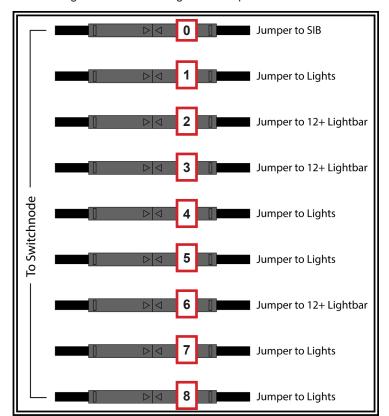
This kit is designed to integrate one 12+ Pro lightbar (standard wiring option) and up to five different directional lights within the same ECCO CONNECT system. The flash patterns come pre-programmed in the SIB. Use the instructions below to install this system. If you run into any questions, please reach out to our Tech Support team. We'll be happy to assist.

Installation and Mounting

- 1. Install the SIB, SWITCHNODE, and (if ordered) EZ0000 controller inside the cab on a flat surface that is safe from moisture. Follow provided instructions for mounting each product.
- 2. Mount the exterior lighting directionals in the desired locations of the vehicle. Note: Drill a 1" hole for the wire exit of the directional.
- 3. Mount the 12+ Pro lightbar per in the install instructions included with the lightbar. Route the control cable back to the Switchnode. The control cable is included with lightbar and comes in three different lengths (15', 23', 48'). Program the 12+ flash patterns using the "Pattern Select" wire (purple wire). Reference the install instructions included with the 12+ for details. Note: The 12+ flash patterns run independent from the rest of the system and will not be in sync.

Wiring Instructions

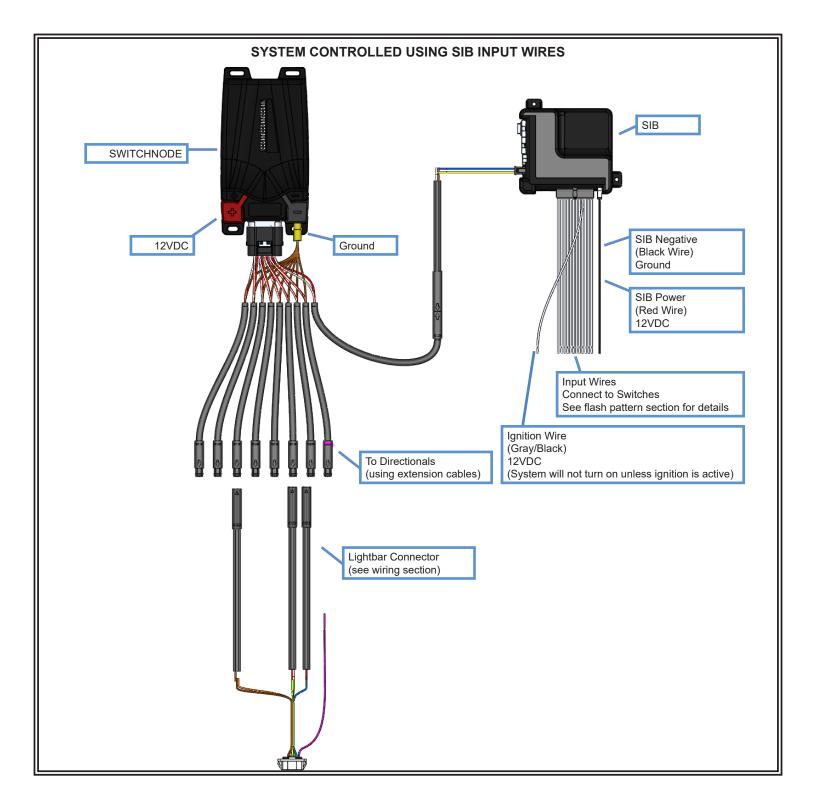
- Use 8 AWG Ring Terminal and 8 AWG wire connect the Switchnode positive terminal to +12V. 1.
- 2. Use 10-12 AWG Ring Terminal and 10 AWG wire connect the Switchnode negative terminal to ground.
- Connect the EZ0000 power and input connectors into the SIB. Connect the two red wires to +12V and black to ground. 3.
- Connect Switchnode to Serial Interface Box by plugging the CAN 690-0499-00 and 690-1051-00.
- Route Cables from the Switchnode to each directional. Connect deutsch connections.
- Connect the 12+ lightbar to the Switchnode using the lightbar connector.
- Connect Switchnode Junction Harness according to image below. 7.
- If you are connecting the SIB input wires to switches, select the desired SIB input wires to use based on the flash pattern table in this install guide. The remaining unused input wires can be trimmed and capped.

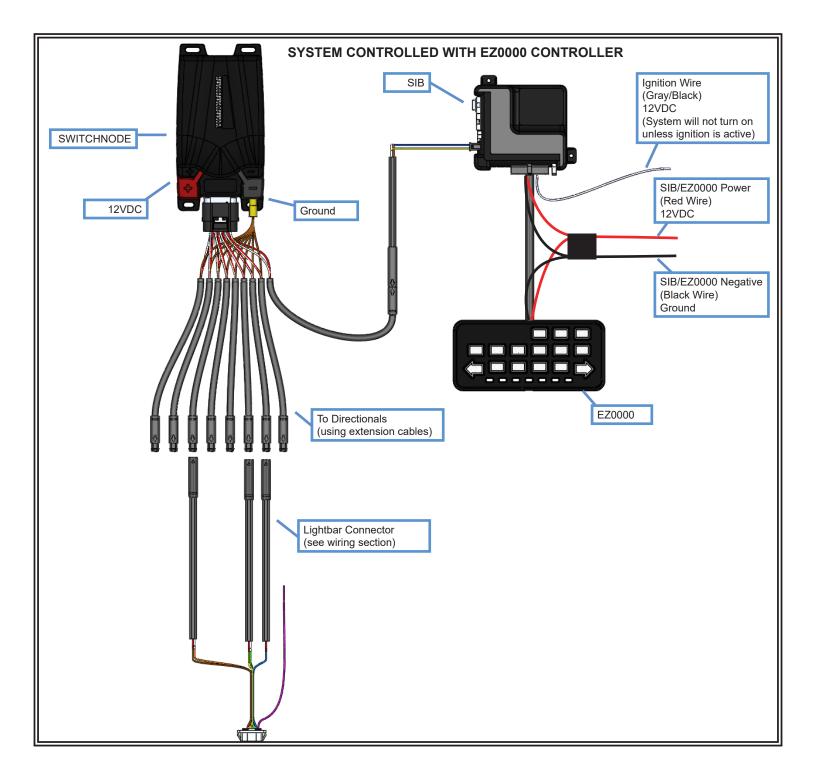


- 0 CAN harness connected back to SIB
- 1 Light positioned on front left of vehicle
- 2 12+ Lightbar (orange & brown wires)
- 3 12+ Lightbar (green and yellow wires)
- 4 Light positioned on front right of vehicle
- 5 Light positioned on rear left of vehicle
- 6 12+ Lightbar (blue wire)
- 7 Light positioned on roof or headache rack of vehicle
- 8 Light positioned on rear left of vehicle

Attach covers to connectors to increase the breaking strain to 55 lbs. of the connector.







| EZ0000 Controller | troller | SIB | Directional Flash Pattern | attern | 12+ Lightl | 12+ Lightbar Function |
|-------------------|--------------------|--------------------------|--|--|------------------------------------|-------------------------------------|
| Button A | Activate | Input Wire | Flash Pattern (Single Button Push) | Flash Pattern (Multi-Press Buttons) | Flash Pattern (Single Button Push) | Flash Pattern (Multi-Press Buttons) |
| 1 Sho | ort Press | Short Press Green/Black | | - | LEVEL 1 | |
| 2 Sho | ort Press | Short Press White/Black | | | LEVEL 2 | LEVEL 3 |
| 3 Sho | ort Press | Short Press Red/Black | | | WORK LIGHT | |
| 4 Sho | ort Press | Short Press Brown/White | SINGLE FLASH 75, PRIMARY COLOR | | | |
| 5 Sho | ort Press | Short Press Green/White | SINGLE FLASH 75, SECONDARY COLOR | SINGLE FLASH 75, PRIMART & SECONDART COLORS | | |
| 6 Sho | ort Press | Short Press Blue/White | DOUBLE FLASH 115 (T13), PRIMARY COLOR | DOLLE EL VERT 41E (110) DOLLA VERT SECONDANA COLORE | | |
| 7 Sho | ort Press | Short Press Gray/White | DOUBLE FLASH 115 (T13), SECONDARY COLOR | DOUBLE FLASH 115 (113), PRIMARY & SECONDARY COLORS | | |
| 8 Sho | ort Press | Short Press Violet/White | TRIPLE FLASH 120 (ECE65), PRIMARY COLOR | TOTAL STATE OF THE | | |
| 9 Sho | ort Press | Orange/White | Short Press Orange/White TRIPLE FLASH 120 (ECE65), SECONDARY COLOR | IRITE TEACH 120 (ECCOS), FRIMARY & SECONDARY COLORS | | |
| 10 Sho | Short Press Pink | Pink | LEFT SIDE STEADY | | ALLEY LEFT | |
| 10 Lor | Long Press Brown | Brown | LEFT CUT | | | |
| 11 Sho | ort Press | Short Press Pink/Black | FLICKER CRUISE, PRIMARY COLOR | | | |
| 12 Sho | ort Press | Short Press Yellow/Black | FLICKER CRUISE, SECONDARY COLOR | | | |
| 12 Lor | ng Press | Long Press Violet/Black | FRONT CUT | | | |
| 13 Sho | Short Press Green | Green | STEADY BURN, SECONDARY COLOR (WHITE FLOOD) | | | |
| 13 Lor | Long Press | Blue/Black | REAR CUT | - | | |
| 14 Sho | Short Press Blue | Blue | DIM (30%) | | | |
| 15 Sho | Short Press Orange | Orange | RIGHT SIDE STEADY | | ALLEY RIGHT | |
| (not available) | | White | QUAD FLASH 75, PRIMARY & SECONDARY COLORS, FLASH OVER CRUISE | | | |
| (not available) | | Gray/Black | *Ignition — must be powered for system to turn on. | | | |
| (not available) | | Orange/Black | DIAMOND FLASH, PRIMARY COLOR | DIAMOND ELAST DELIMANY & SECONDARY COLORS | | |
| (not available) | | Gray | DIAMOND FLASH, SECONDARY COLOR | DIAMONO TOSO, FRIMERI & SECONDARI COLORS | | |
| (not available) |) | Yellow | QUINT FLASH 150, PRIMARY COLOR | TRIBLE ELVEN 130 (ECECE) BRINARY & SECONDARY COLORS | | |
| (not available) | | Purple | QUINT FLASH 150, SECONDARY COLOR | DIFFE CONTENTS (CCCOS), FORWARD & SECONDARY COCCOSS | | |

List of primary/secondary colors by product:

PRODUCT 7965A-EC 7945A-EC

PRIMARY SECONDARY

AMBER

(NONE) (NONE)

AMBER

ED3802AB-EC BLUE
ED3802AW-EC AMBER
ED3802AG-EC AMBER
ED3511AB-EC BLUE

AMBER
WHITE
GREEN
AMBER

ED3511AW-EC AMBER

5590CAC-EC 5590CAB-EC

AMBER

ED5051AG-EC AMBER ED5051AB-EC ED5051AW-EC AMBER

BLUE

AMBER

WHITE GREEN

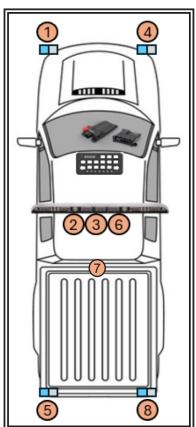
5590CAG-EC

AMBER BLUE

> AMBER WHITE

ED3794BA-EC BLUE ED3794AW-EC AMBER

AMBER WHITE GREEN Reference the guidance below to connect each product back to the correct Switchnode outputs. The 12+ Pro will use three connectors (#2, 3, 6). Use jumper cables routed from the Switchnode to the directionals placed on the vehicle. Different lengths of jumper cables are available.



Warranty

Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase, this product will conform to 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 IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

Exclusion of Other Warranties:

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.

Remedies and Limitation of Liability:

MANUFACTURER'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR UNDER ANY OTHER THEORY AGAINST MANUFACTURER REGARDING THE PRODUCT AND ITS USE SHALL BE, AT MANUFACTURER'S DISCRETION, THE REPLACEMENT OR REPAIR OF THE PRODUCT, OR THE REFUND OF THE PURCHASE PRICE PAID BY BUYER FOR NON-CONFORMING PRODUCT. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ARISING OUT OF THIS LIMITED WARRANTY OR ANY OTHER CLAIM RELATED TO THE MANUFACTURER'S PRODUCTS EXCEED THE AMOUNT PAID FOR THE PRODUCT BY BUYER AT THE TIME OF THE ORIGINAL PURCHASE. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR LOST PROFITS, THE COST OF SUBSTITUTE EQUIPMENT OR LABOR, PROPERTY DAMAGE, OR OTHER SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES BASED UPON ANY CLAIM FOR BREACH OF CONTRACT, IMPROPER INSTALLATION, NEGLIGENCE, OR OTHER CLAIM, EVEN IF MANUFACTURER OR A MANUFACTURER'S REPRESENTATIVE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. MANUFACTURER SHALL HAVE NO FURTHER OBLIGATION OR LIABILITY WITH RESPECT TO THE PRODUCT OR ITS SALE, OPERATION AND USE, AND MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES THE ASSUMPTION OF ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH PRODUCT.

This Limited Warranty defines specific legal rights. You may have other legal rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages.



833 West Diamond St, Boise, Idaho 83705 **Customer Service** USA 800-635-5900

UK +44 (0)113 237 5340 | AUS +61 (0)3 63322444 **ECCOESG.**com

An ECCO SAFETY GROUP™ Brand ECCOSAFETYGROUP.com