

# WHELEN<sup>®</sup>

## ENGINEERING COMPANY INC.

51 Winthrop Road  
Chester, Connecticut 06412-0684  
Phone: (860) 526-9504  
Fax: (860) 526-4078  
Internet: [www.whelen.com](http://www.whelen.com)  
Sales e-mail: [autosale@whelen.com](mailto:autosale@whelen.com)  
Canadian Sales e-mail: [canadiansales@whelen.com](mailto:canadiansales@whelen.com)  
Customer Service e-mail: [custserv@whelen.com](mailto:custserv@whelen.com)

**Installation Guide:**  
**LED Traffic Advisor™**  
**Model(s) TAZ66, TAZ86,**  
**TAZ86AA, TAZ86RB,**  
**TAZ86 (48" P/N 01-0688548-00)**

### Warnings to Installers

Whelen's emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen's written instructions when installing or using this device. Emergency vehicles are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer's instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRS) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SRS wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. **PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.**

### Warnings to Users

Whelen's emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen's audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

### Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.**
- **Failure to use specified installation parts and/or hardware will void the product warranty.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post (this does not include products that use cigar power cords).**
- **If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

## Installation:

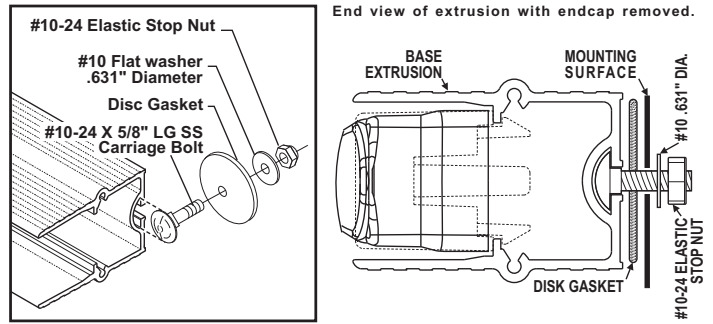
**IMPORTANT:** It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment!

**Note:** When routing wires, it is important to choose a path that will keep the wires away from excessive heat or any vehicle equipment that could compromise the wires integrity (trunk lids, door jams, etc.).

**WARNING!** When the Traffic Advisor is mounted to the rear of the vehicle, the cable exit must be on the passenger side. If not, the flash pattern sequence you choose on the control head will be incorrect. For example, a left flashing pattern will flash right.

**Caution:** Permanent mounting of this product will require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged by this process. Check both sides of the mounting surface before starting. If damage is likely, select a different location.

1. Position unit in its proposed mounting location. Draw a pencil line on the mounting surface using the top and bottom of the extrusion as a guide.
2. Two 1/4" holes are required for mounting. The holes may be located anywhere along the horizontal centerline of the unit, but must be centered between the upper and lower lines made in step 1. Locate the mounting holes as far apart as possible.
3. Using a 1/4" drill bit, drill a hole in each of the areas scribed in the previous step.
4. Remove the end cap without the cable and insert the two carriage bolts (included) into the extrusion as shown. Position these bolts so they may pass through the mounting holes drilled in the previous step.
5. With the unit in position, place a gasket, flat washer and elastic stop nut onto each bolt and tighten firmly.



## Wiring:

Extend the control wires to your switch panel and make the connections using the wiring information below. TACTRLD1 is shown. If your system uses another control head, refer to your control head manual for connection and operation.

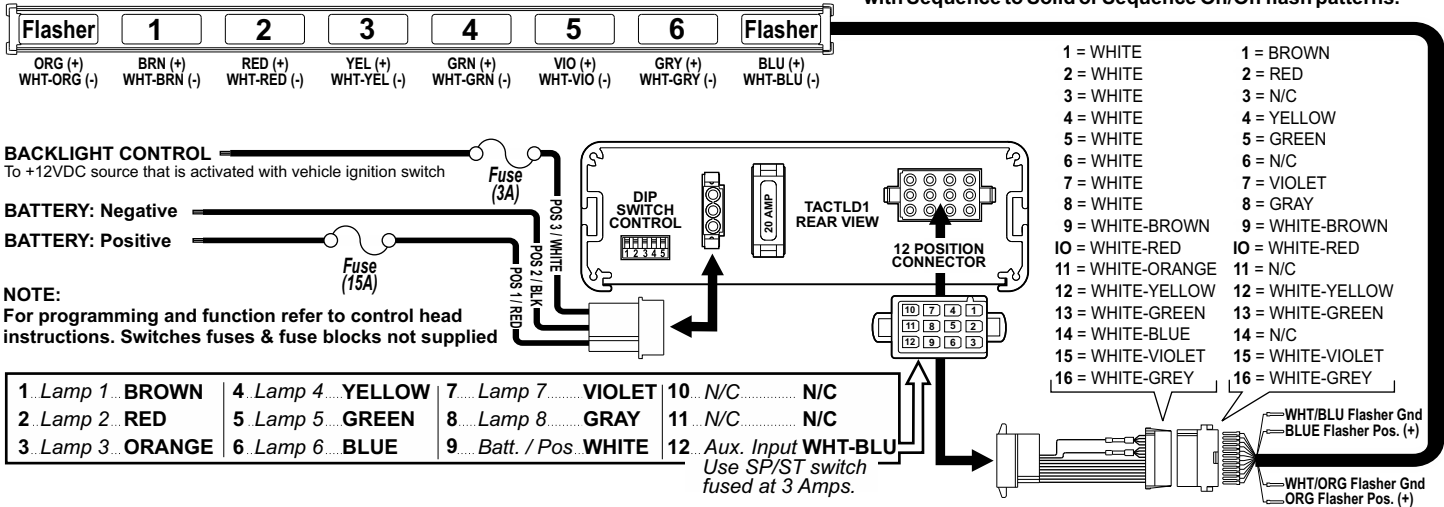
**WARNING!** All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and FUSED at the battery to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**

**IMPORTANT!** Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.

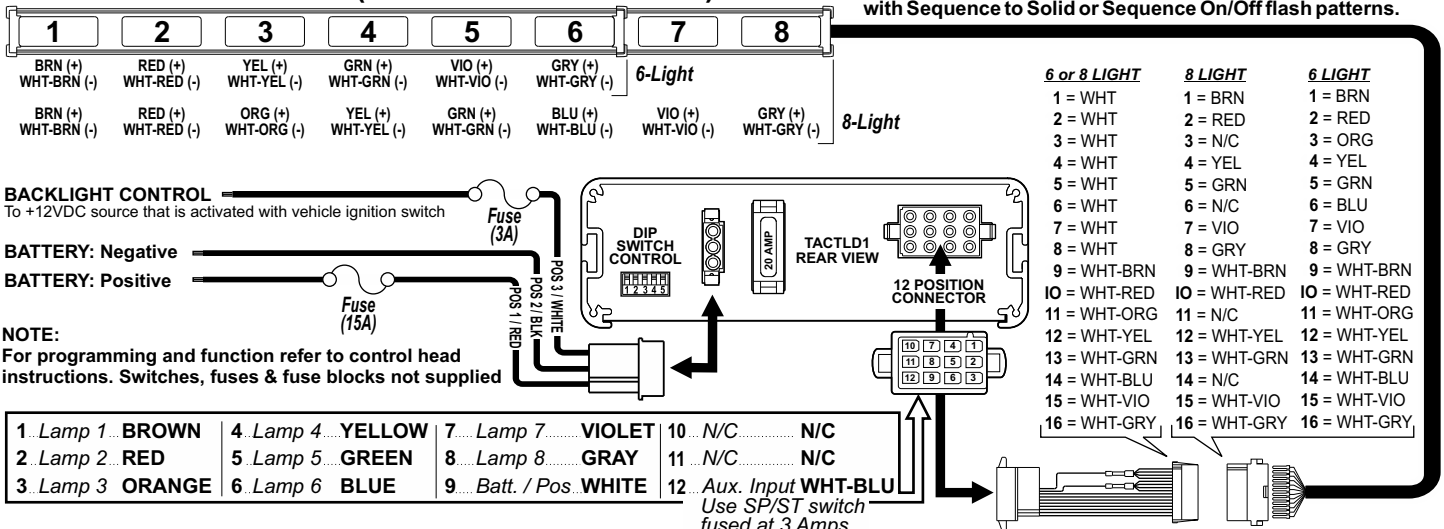
**IMPORTANT WARNING!**

**CAUTION! DO NOT LOOK DIRECTLY AT THESE LEDS WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!**

## TAZ86AA / TAZ86RB

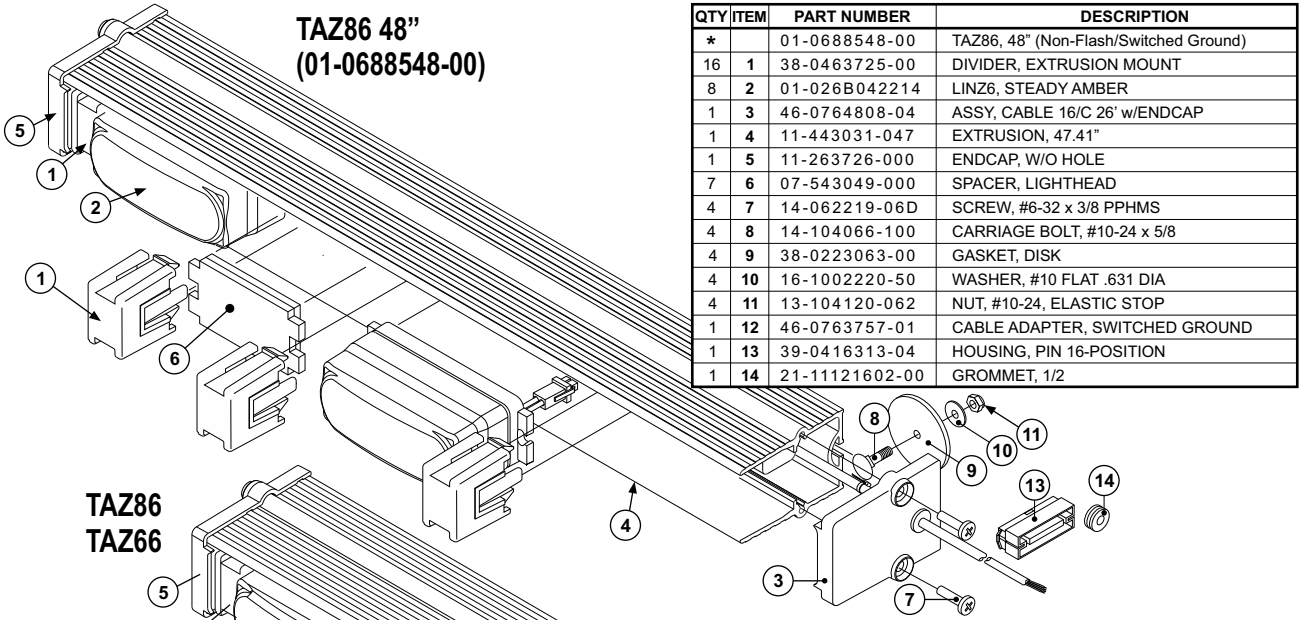


## TAZ66 / TAZ86 / TAZ86 (48" P/N 01-0688548-00)



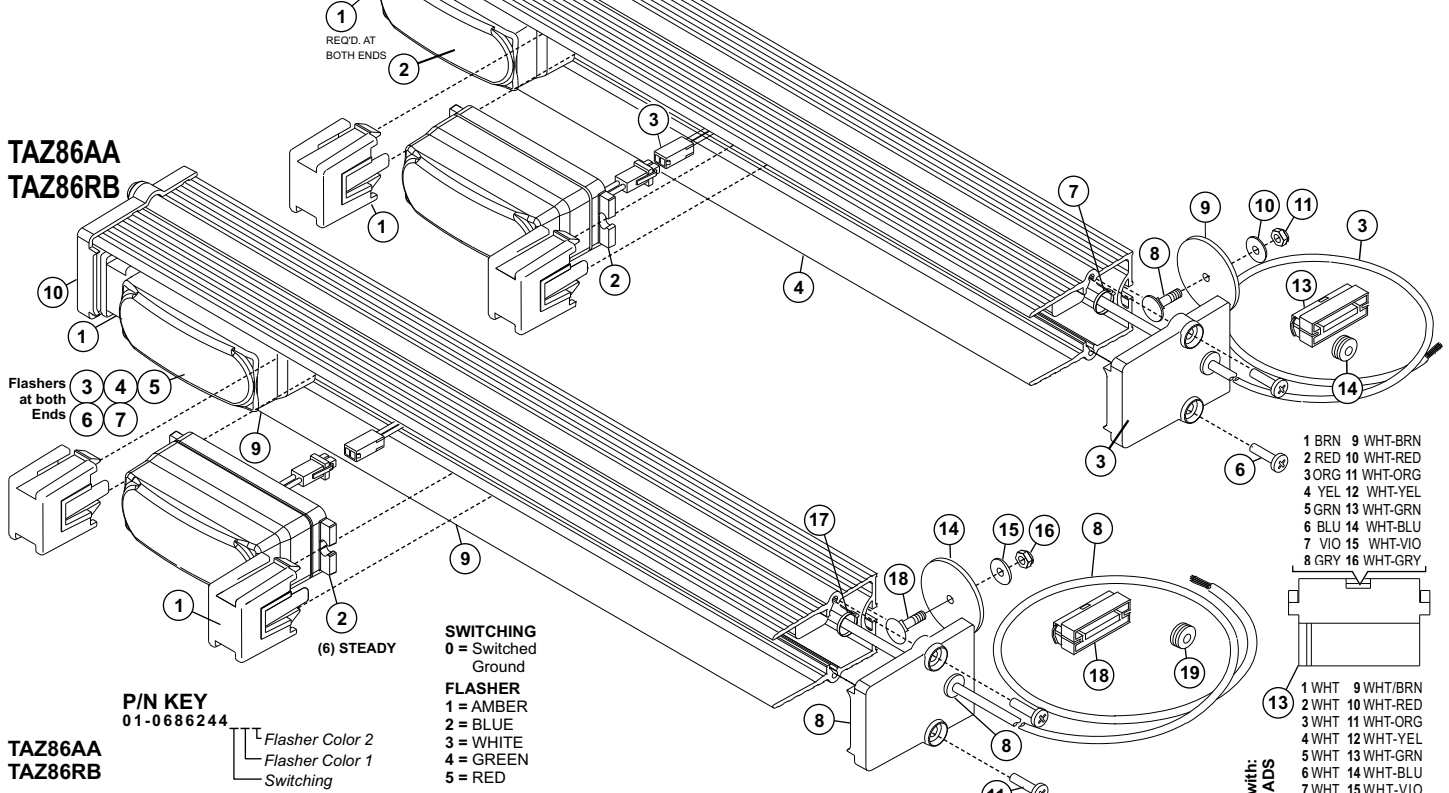
**TAZ86 48"**  
**(01-0688548-00)**

QTY	ITEM	PART NUMBER	DESCRIPTION
*		01-0688548-00	TAZ86, 48" (Non-Flash/Switched Ground)
16	1	38-0463725-00	DIVIDER, EXTRUSION MOUNT
8	2	01-026B042214	LINZ6, STEADY AMBER
1	3	46-0764808-04	ASSY, CABLE 16/C 26" w/ENDCAP
1	4	11-443031-047	EXTRUSION, 47.41"
1	5	11-263726-000	ENDCAP, W/O HOLE
7	6	07-543049-000	SPACER, LIGHTHEAD
4	7	14-062219-06D	SCREW, #6-32 x 3/8 PPHMS
4	8	14-104066-100	CARRIAGE BOLT, #10-24 x 5/8
4	9	38-0223063-000	GASKET, DISK
4	10	16-1002220-50	WASHER, #10 FLAT .631 DIA
4	11	13-104120-062	NUT, #10-24, ELASTIC STOP
1	12	46-0763757-01	CABLE ADAPTER, SWITCHED GROUND
1	13	39-0416313-04	HOUSING, PIN 16-POSITION
1	14	21-11121602-00	GROMMET, 1/2



**TAZ86**  
**TAZ66**

**TAZ86AA**  
**TAZ86RB**



- 1 BRN 9 WHT-BRN
- 2 RED 10 WHT-RED
- 3 ORG 11 WHT-ORG
- 4 YEL 12 WHT-YEL
- 5 GRN 13 WHT-GRN
- 6 BLU 14 WHT-BLU
- 7 VIO 15 WHT-VIO
- 8 GRY 16 WHT-GRY

- 1 WHT 9 WHT/BRN
- 2 WHT 10 WHT-RED
- 3 WHT 11 WHT-ORG
- 4 WHT 12 WHT-YEL
- 5 WHT 13 WHT-GRN
- 6 WHT 14 WHT-BLU
- 7 WHT 15 WHT-VIO
- 8 WHT 16 WHT-GRY

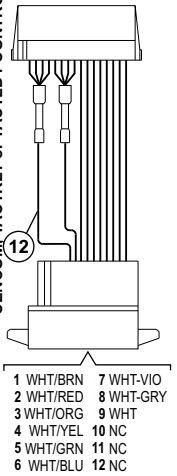
**TAZ86AA**  
**TAZ86RB**

QTY	ITEM	PART NUMBER	DESCRIPTION
*		01-06862440	DOMINATOR PLUS LINZ6™ w/FLASHERS SW GND
9	1	38-0463725-00	DIVIDER, EXTRUSION MOUNT
6	2	01-026B042214	LIGHTHEAD, LINZ6, AMBER STEADY
A/R	3	01-026B042410	LIGHTHEAD, LINZ6, AMBER, FLASHER
A/R	4	01-026B042420	LIGHTHEAD, LINZ6, BLUE, FLASHER
A/R	5	01-026B042430	LIGHTHEAD, LINZ6, WHITE, FLASHER
A/R	6	01-026B042440	LIGHTHEAD, LINZ6, GREEN, FLASHER
A/R	7	01-026B042450	LIGHTHEAD, LINZ6, RED, FLASHER
1	8	46-0764808-00	END CAP w/CABLE, 28"
1	9	11-443031-030	EXTRUSION, 30.00"
1	10	11-263726-000	END CAP, w/o HOLE
4	11	14-062219-06D	SCREW, #6-32 X 3/8" PPHMS
1	12	46-0763757-01	CABLE ADAPTER, SWITCHED GND
1	13	39-0416313-04	HOUSING, PIN 16-POSITION
2	14	38-0223063-000	GASKET, DISK
2	15	16-1002220-50	WASHER, #10 FLAT .631" DIA.
2	16	13-104120-062	NUT, #10-24 ELASTIC STOP
1	17	26-0215001-03	TY-WRAP, 3"
2	18	14-104066-100	CARRIAGE BOLT, #10-24 X 5/8"
1	19	21-11121602-0	GROMMET, 3/8" ID X 1/2"

**TAZ86**  
**TAZ66**

QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
*			01-0686240-00	TAZ86 LINZ6 T/A (Non-Flash/Switched Ground)
*			01-0686243-00	TAZ66 LINZ6 T/A (Non-Flash/Switched Ground)
7	9	1	38-0463725-00	DIVIDER, EXTRUSION MOUNT
6	8	2	01-026B042214	LINZ6, STEADY AMBER
1	1	3	46-0764808-00	CABLE, CONN, ENDCAP - NF
-	1	4	11-443031-030	EXTRUSION, 30.00"
1	-	4	11-443031-022	EXTRUSION, 22.90"
1	1	5	11-263726-000	ENDCAP, W/O HOLE
4	4	6	14-062219-06D	SCREW, #6-32 x 3/8 PPHMS
1	1	7		TY-WRAP, 3"
2	2	8	14-104066-100	CARRIAGE BOLT, #10-24 x 5/8
2	2	9	38-0223063-000	GASKET, DISK
2	2	10	16-1002220-50	WASHER, #10 FLAT .631 DIA
2	2	11	13-104120-062	NUT, #10-24, ELASTIC STOP
1	1	12	46-0763757-01	CABLE ADAPTER, SWITCHED GROUND
1	1	13	39-0416313-04	HOUSING, PIN 16-POSITION
1	1	14	21-11121602-00	GROMMET, 1/2

Cable Adapter / Ground (-) Switching for use with:  
CENCOM TACTRL1 or TACTLD1 CONTROL HEADS



- 1 WHT/BRN 7 WHT-VIO
- 2 WHT/RED 8 WHT-GRY
- 3 WHT/ORG 9 WHT
- 4 WHT/YEL 10 NC
- 5 WHT/GRN 11 NC
- 6 WHT/BLU 12 NC