

# WHELEN<sup>®</sup>

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## Installation Guide: FastTrax™ Module Model FTT1

### 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.
- 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 any 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.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control 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!**

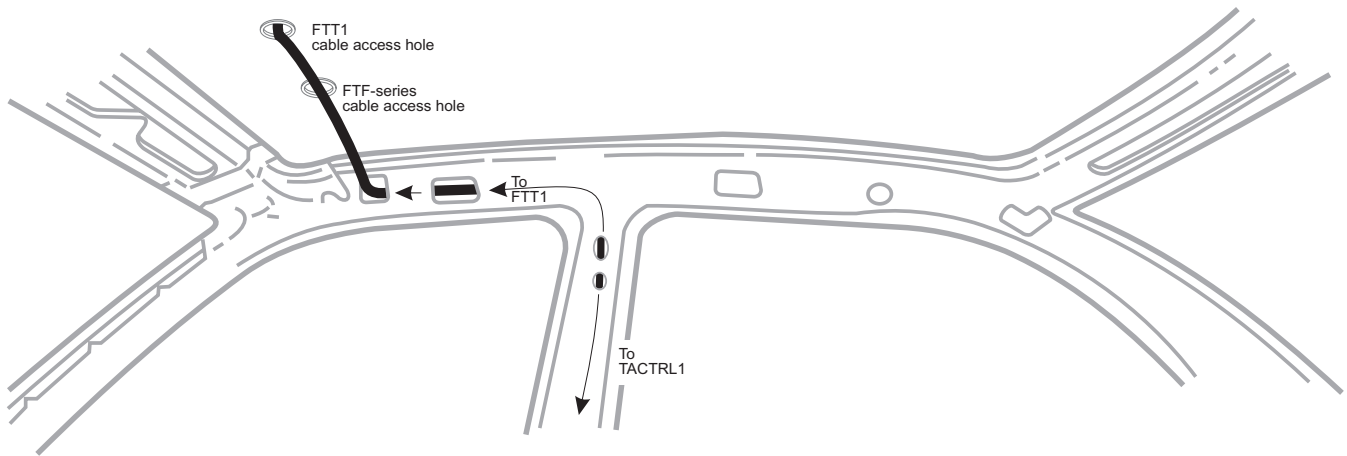
**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**IMPORTANT!** The presence of the FastTrax™ model FTT1 module on the FTF-series FastTrax requires the drilling of an additional hole through the vehicle roof. The following procedure must be performed while the necessary interior components have been removed for installation of the FTF-series FastTrax. The TACTRL1 Control Head package includes a manual that contains important wiring information, as well as specific control head operational procedures. This manual is necessary for proper installation and use of your FTT1 module. Please note that the TACTRL1 manual contains references to systems using 8 lamps. Refer to the illustration at the bottom of this page for wiring information specific to the 6-lamp FTT1.

The outer surfaces of this product may be cleaned with mild soap and water. Use of any other chemicals may void product warranty. Do not use a pressure washer.

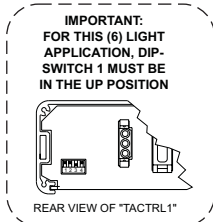
### Vehicle Preparation...

1. Select one of the cable access holes drilled for normal FastTrax installation (refer to the installation manual included with the FastTrax FTF-series equipment for information on the cable access holes). Please note that either cable access hole may be used as a reference point.
2. From the hole selected, measure a 6 inch line perpendicular to the centerline of the vehicle. Mark this point.
3. Using a 1/8" (0.125") drill bit, drill a pilot hole up through the vehicle roof at this location.



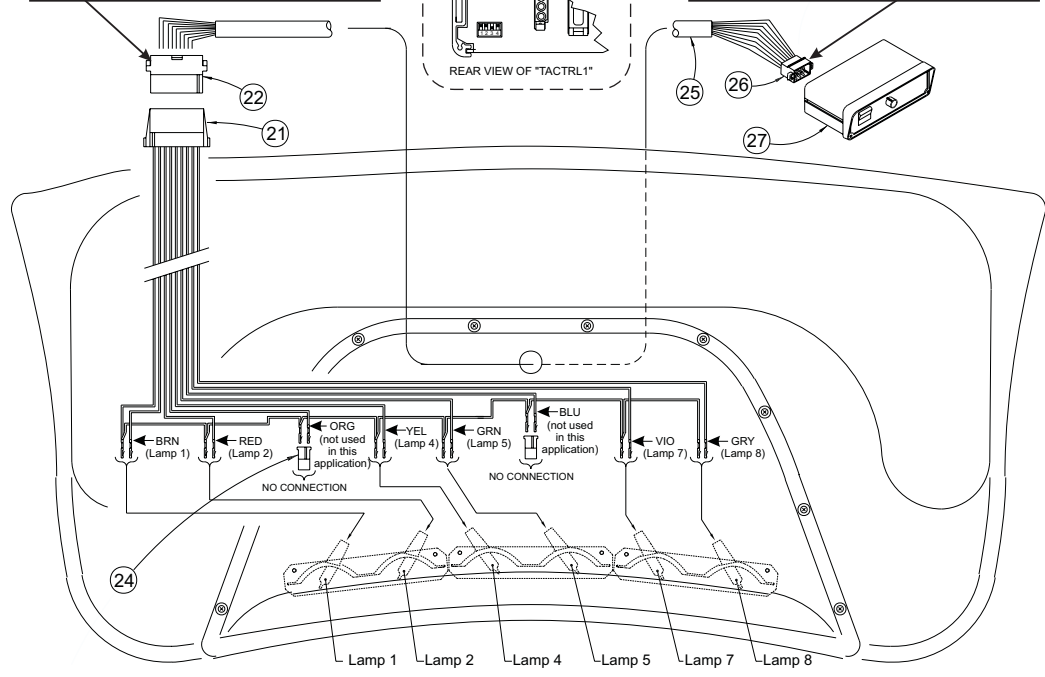
4. Using this hole as a center point, cut a 1" hole down through the roof. De-burr this hole and install a grommet.

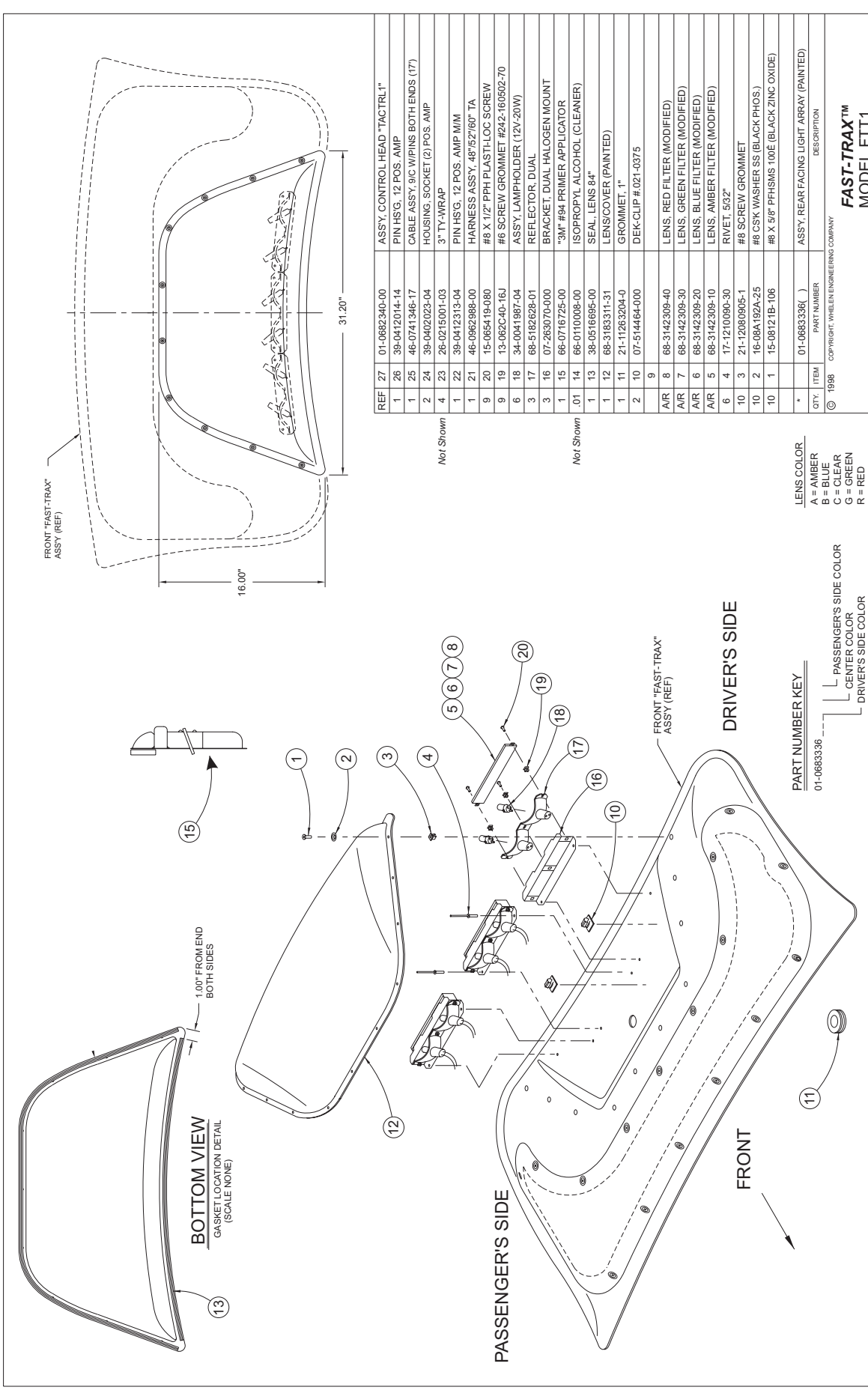
POS. #1= BRN	POS. #7= VIO
POS. #2= RED	POS. #8= GREY
POS. #3= ORG	POS. #9= WHT
POS. #4= YEL	POS. #10= N/C
POS. #5= GRN	POS. #11= N/C
POS. #6= BLU	POS. #12= N/C



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5. Locate the 9-conductor harness cable included with the FTT1. Route this cable from the proposed TACTRL1 control head location, up the "B" pillar, along the roof support brace and up through the hole grommeted in the previous step. Make sure that there is at least 18" of cable exiting the hole. **Apply a generous amount of RTV to the grommet hole to completely waterproof this opening.**





REF	QTY	ITEM	PART NUMBER	DESCRIPTION
27	1	ASSY, CONTROL HEAD "TACTRL1"	01-0682340-00	
1	26	PIN HSG., 12 POS. AMP	39-0412014-14	
1	25	CABLE ASSY, 9/C W/PINS BOTH ENDS (17)	46-0741346-17	
2	24	HOUSING, SOCKET (2) POS. AMP	39-0402023-04	
4	23	3" TY-WRAP	26-0215001-03	
1	22	PIN HSG., 12 POS. AMP M/M	39-0412133-04	
1	21	HARNESS ASSY, 48" 5/2" 60" TA	46-0962988-00	
9	20	#8 X 1/2" PPH PLAST/LLOC SCREW	15-065419-080	
9	19	#6 SCREW GROMMET #242-160502-70	13-062C40-16J	
6	18	ASSY, LAMPHOLDER (12V-20W)	34-0041987-04	
3	17	REFLECTOR, DUAL	68-5182628-01	
3	16	BRACKET, DUAL HALOGEN MOUNT	07-263070-000	
1	15	"3M" #84 PRIMER APPLICATOR	66-0716725-00	
.01	14	ISOPROPYL ALCOHOL (CLEANER)	66-0101008-00	
1	13	SEAL, LENS 84"	38-0516695-00	
1	12	LENS/COVER (PAINTED)	68-3183311-31	
1	11	GROMMET, 1"	21-11263204-0	
2	10	DEK-CLIP #.021-0375	07-514464-000	
9	8	LENS, RED FILTER (MODIFIED)	68-3142309-40	
A/R	7	LENS, GREEN FILTER (MODIFIED)	68-3142309-30	
A/R	6	LENS, BLUE FILTER (MODIFIED)	68-3142309-20	
A/R	5	LENS, AMBER FILTER (MODIFIED)	68-3142309-10	
6	4	RIVET, 5/32"	17-1210090-30	
10	3	#8 SCREW GROMMET	21-12080905-1	
10	2	#6 CSK WASHER SS (BLACK PHOS.)	16-08A192A-25	
10	1	#8 X 5/8" PPHSMS 100E (BLACK ZINC OXIDE)	15-08121B-106	
*		ASSY, REAR FACING LIGHT ARRAY (PAINTED)	01-0683336( )	

Not Shown

Not Shown

LENS COLOR:  
 A = AMBER  
 B = BLUE  
 C = CLEAR  
 G = GREEN  
 R = RED

PART NUMBER KEY  
 01-0683336  
 L PASSENGER'S SIDE COLOR  
 CENTER COLOR  
 DRIVERS SIDE COLOR

**FAST-TRAX™**  
**MODEL FTT1**

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