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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.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- 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 any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- 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.
- **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!**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

IMPORTANT NOTICE! Prior to installing this product on any vehicle, check your state motor vehicle codes to confirm that this product complies with all state statutes.

Installation:

1. Mark and drill the two 1.25" holes shown in figure 1.
2. Remove material between the two holes drilled in step 1.
3. Thread wires through the rubber grommet, through the wire access hole and to your power source. (Note: Refer to the "Wiring Diagram" section for detailed information.)
4. Install rubber grommet into the wire passage hole.
5. Insert lighthouse into pre-installed grommet. Connect the lighthouse wires to your power source.

IMPORTANT: Customer supplied wire must be a minimum of 22 gauge.

Pattern Selection:

WARNING: PATTERN SELECTION REQUIRES THE LED TO BE TURNED ON. DO NOT LOOK DIRECTLY AT LEDs WHILE UNIT IS IN OPERATION.

Scan-Lock™ Pattern selection procedure: Locate the WHT-VIO (Scan-Lock) wire then turn the lighthouse on.

TO CYCLE PATTERNS FORWARD: Apply +10-30V to the WHT/VIO wire for less than 1 second and release. Repeat to advance to the next pattern. Allow to run for more than 5 seconds save your selected pattern.

TO CYCLE PATTERNS BACKWARDS: Apply +10-30V to the WHT/VIO wire for more than 1 second and release.

TO RESET THE LIGHTHEAD TO THE DEFAULT PATTERN: Turn the lighthouse off. While applying +10-30V to the WHT/VIO wire, turn the lighthouse on. Continue to apply the +10-30V until the default pattern is active (approximately 3 seconds).

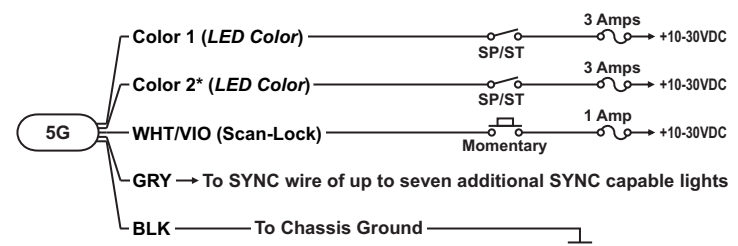
IMPORTANT: Templates are not to scale. Check all measurements before drilling.

Pattern List:

Pattern#	Name	Cert.	Pattern#	Name	Cert.
1.	SignalAlert™ 75 Ph1*	1,2,3,4	18.	SingleFlash 90	1,2,3,4
2.	SignalAlert™ 75 Ph2	1,2,3,4	19.	SingleFlash 120	1,2,3,4
3.	CometFlash 75 Ph1	1,2,3,4	20.	SingleFlash 240	1, 3, 4
4.	CometFlash 75 Ph2	1,2,3,4	21.	DoubleFlash 120	1,2,3,4
5.	ComAlert™ 75 Ph1	1,2,3,4	22.	Tripleflash™ 120	1,2,3,4
6.	ComAlert™ 75 Ph2	1,2,3,4	23.	ComAlert™ 150	1,3,4
7.	LongBurst™ 75 PH1	1,2,3,4	24.	PingPong™ 120	1,2,3,4
8.	LongBurst™ 75 PH2	1,2,3,4	25.	ActionFlash™ 60	1,2, 4
9.	PingPong™ 75 PH1	1,2,3,4	26.	ActionFlash™ 120	1,2,3,4
10.	PingPong™ 75 PH2	1,2,3,4	27.	Action SF 60/120	1,2, 4
11.	SingleFlash 75 PH1	1,2,3,4	28.	Action SF 120/TF75	1,2,3,4
12.	SingleFlash 75 PH2	1,2,3,4	29.	ModuFlash	
13.	DoubleFlash 75 PH1	1,2,3,4	30.	CalScan	1,2,3,4
14.	DoubleFlash 75 PH2	1,2,3,4	31.	ActionScan	1, 3,4
15.	Tripleflash™ 75 PH1	1,2,3,4	32.	SigAlert STEADY	
16.	Tripleflash™ 75 PH2	1,2,3,4	33.	STEADY	
17.	SingleFlash 60	1,2, 4			

Bold = SYNC Pattern | PH1 = Phase 1 | PH2 = Phase 2 | * = Default Pattern
Note: Each pattern is certified compliant in up to 4 classifications, shown in the "Cert" column: 1. SAE | 2. CA Title XIII | 3. NFPA | 4. KKK

Wiring Diagram:



*Note: Solo light head will have one color wire

