



**Installation Guide:
TIR3™ Wing Plow Lights
Model 7856 (Lower Light)
Model 7857 (Upper Light)**

United States:

2600 Lanier Drive
Madison, IN 47250
Phone: (800) 628-0809
Fax: (812) 265-8440
Internet: www.grote.com

Canada:

230 Travail Road
Markham, Ontario L3S 3J1
Phone: (800) 268-5612
Fax: (800) 267-9024

Mexico:

Grote Industrias de Mexico, S.A. DE C.V.
Ave. Stiva #225 Parque Industrial Stiva Aeropuerto
c.p. 66600 Apodaca, Nuevo Leon
Phone: +011 (52) 81 8386-4265
Fax: +011 (52) 81 8386-4269

⚠ WARNING: This product can expose you to chemicals including Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

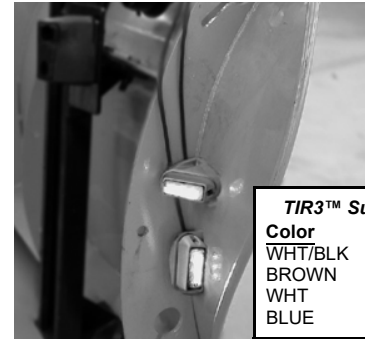
Installation:

Place the light assemblies in the outside crevice of the outermost reinforcement brace in the positions shown. Make sure the lighthouse cable is positioned in the cable notch and that the housing is in full contact with the plow.

With the housings in place, use an awl (or similar tool) to scribe the mounting hole locations (2 per housing) onto the mounting surface. Remove the housings and with a 9/32" drill bit, drill the required mounting holes through the mounting surface. Return the housings to their mounting locations and secure using the hardware provided. **NOTE: Be sure to insert the mounting bolt through the mounting hole from the front of the plow.**

Route the lighthouse cables, choosing a manner and path to prevent damage by and interference from any existing equipment. See table at right for wiring information:

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Form No.14023B (030620)



TIR3™ Super-LED™ Wiring	
Color	Function
WHT/BLK	Chassis Ground
BROWN	+12VDC (fuse@3A)
WHT	Scan-Lock™
BLUE	Sync



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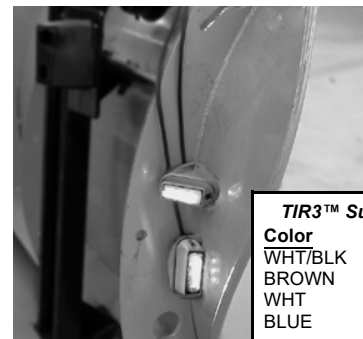
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WARNING! All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and FUSED at the battery to carry that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

Operation -

Scan-Lock™ - TIR3™ lighthead has a special set of flash patterns, with each pattern available in two modes; Phase 1 and Phase 2. The patterns are changed with the WHT wire.

To advance to the next pattern, apply +12VDC to the WHT wire for less than 1 second. To cycle backwards to previous patterns, apply +12VDC for more than 1 second.

To reset to the factory default pattern, begin by turning off power to the lighthead. While applying +12VDC to the WHT wire, turn the lighthead back on. Continue to apply voltage to the WHT wire for 5 seconds.

All lighthead configurations to display the Phase 1 mode of a given pattern will flash simultaneously. Any lighthead configurations to display the Phase 2 mode of a pattern, will alternate with any Phase 1 lighthead configurations with the same pattern.

Sync - To sync two lighthead configurations, configure both lighthead configurations to display the same Phase 1 pattern. With the power off, connect the BLUE wires from each lighthead together. When the lighthead configurations are activated, their patterns will be synchronized. To configure the two lighthead configurations to alternate their patterns, advance the pattern of either lighthead to the Phase 2 mode of the current pattern.

To understand how to use the SYNC feature with more than 2 lighthead configurations, the principles will be applied to a sample system consisting of 4 lighthead configurations. 2 are mounted on the rear, driver side of the vehicle and 2 mounted on the rear, passenger side of the vehicle.

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To understand how to use the SYNC feature with more than 2 lighthead configurations, the principles will be applied to a sample system consisting of 4 lighthead configurations. 2 are mounted on the rear, driver side of the vehicle and 2 mounted on the rear, passenger side of the vehicle.

With all the wiring complete, turn on the 4 lighthead configurations. As shipped from the factory, all the lighthead configurations will simultaneously display the same pattern (SignalAlert™ 75 Phase 1).

EXAMPLE: To configure the passenger side lighthead configurations to alternate with the driver side lighthead configurations, change the flash patterns for either the passenger or driver side to Phase 2 mode of the same pattern.

Available Scan-Lock™ Patterns

SYNC Flash Patterns: SignalAlert™ 75 Phase 1 > SignalAlert™ 75 Phase 2 > CometFlash® 75 Phase 1 > CometFlash® 75 Phase 2 > DoubleFlash 75 Phase 1 > DoubleFlash 75 Phase 2 > SingleFlash 75 Phase 1 > SingleFlash 75 Phase 2 > ComAlert™ 75 Phase 1 > ComAlert™ 75 Phase 2 > LongBurst™ 75 Phase 1 > LongBurst™ 75 Phase 2 > PingPong 75 Phase 1 > PingPong 75 Phase 2 > Regular Flash Patterns: SingleFlash 60 > SingleFlash 90 > SingleFlash 120 > SingleFlash 300 > DoubleFlash 150 > ComAlert™ 150 > ActionFlash™ 1 > ActionFlash™ 2 > ModuFlash™ > ActionScan™ > Steady

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!

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 LED'S WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

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