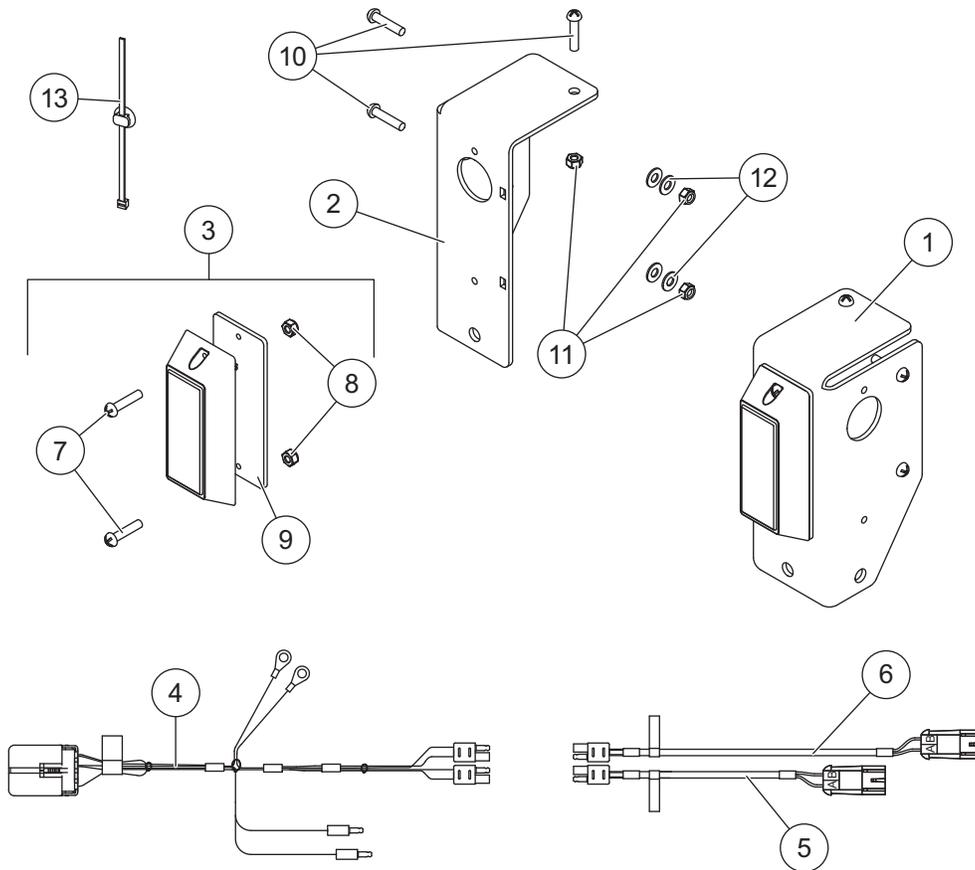


# Strobe Light Kit

## HELIXX™ Stainless Steel Hopper Spreaders

**PARTS LIST**



85458 Strobe Light Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	99495	1	Strobe Light Bracket – PS	5	78378	1	Harness Assembly – 56"
2	99496	1	Strobe Light Bracket – DS	6	78386	1	Harness Assembly – 72"
3	78379	2	Strobe Light – LED	ns	99103	1	Bolt Bag
4	78381	1	Harness Assembly w/Relay & Fuse				
<b>Item 3</b>				<b>78379 Strobe Light – LED</b>			
7		2	#6-32 x 5/8 Machine Screw SS	9		1	Strobe Light Gasket
8		2	#6-32 Locknut SS				
				<b>99103 Bolt Bag</b>			
10		6	#10-32 x 1 Machine Screw SS	13		8	Fir Tree Mount w/Cable Tie
11		6	#10-32 Hex Locknut GB SS	ns		6	Cable Tie – 15.35"
12		8	#10 Flat Washer SS				
		ns = not shown				G = Grade	
						SS = Stainless Steel	

**INSTALLATION INSTRUCTIONS**

**⚠ WARNING**

Do not exceed GVWR or GAWR ratings as found on the driver-side vehicle door cornerpost.

**⚠ CAUTION**

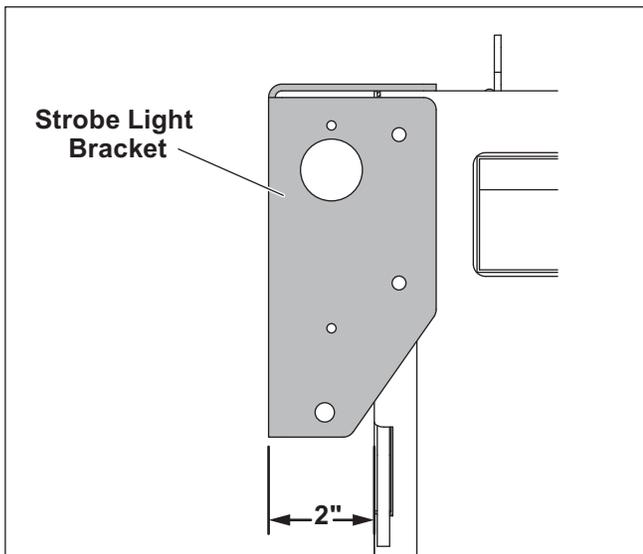
Read this document before installing the strobe light kit.

**⚠ CAUTION**

Use standard methods and practices when attaching spreader and installing accessories, including proper personal protective safety equipment.

**Install Brackets and Lights**

1. Park the vehicle on a smooth, level, hard surface, such as concrete. Turn the vehicle ignition to the "OFF" position and remove the key.
2. Position the passenger-side strobe light bracket at the rear of the hopper as shown, allowing a 2" gap between the bracket and the hopper.



**⚠ CAUTION**

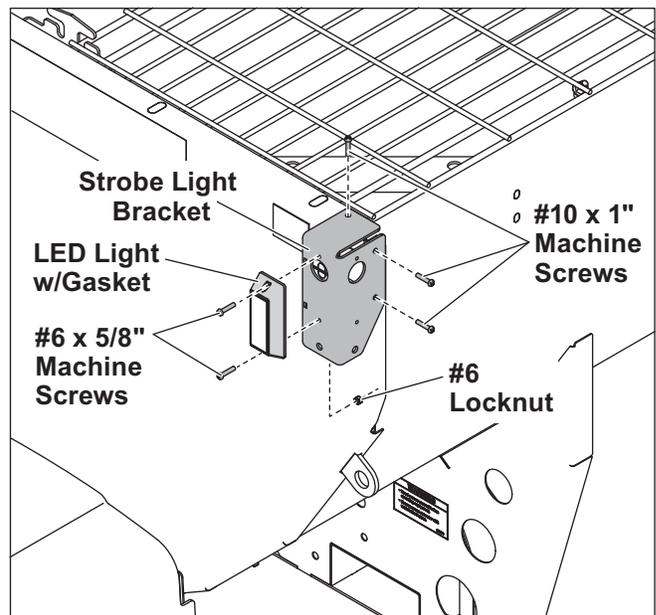
Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

3. Using the bracket as a template, mark the location of the three bracket mounting holes on the hopper. Drill pilot holes using a #3 or 7/32" drill bit.

On 0.35 yd<sup>3</sup> and 0.7 yd<sup>3</sup> hopper spreaders, remove the carriage bolts from the corner. Use all three available holes to install bracket.

**NOTE: Stainless steel is a durable material. For best results, use a sharp drill bit with proper lubrication.**

4. Install the bracket to the hopper using the supplied #10 hardware.
5. The flat washers can be used to make up space between the bracket and the hopper side so the bracket fits squarely on the hopper.
6. Repeat Steps 2–4 for the driver-side bracket.
7. Feed the electrical connector and leads from one of the LED strobe lights through the large hole in one of the brackets. Install the LED light and gasket to the bracket using the supplied #6 x 5/8" machine screws and #6 locknuts. Repeat with the other LED light and gasket.



Electrical leads not shown.

## Install Harness, Relay, and Fuse Assembly

If an accessory work light has been installed previously, the strobe light harness can be secured to the existing work light harness. Skip to Step 3.

If no work light harness is already installed, use the supplied fir tree mounts and cable ties to secure the strobe light harness between the lights and the electrical enclosure, as described below.

### **⚠ CAUTION**

**Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.**

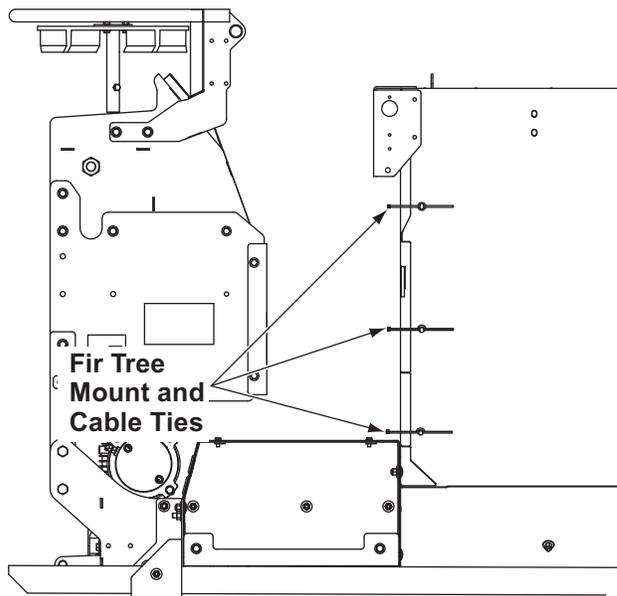
1. Drill 1/4" holes along both sides of the hopper as shown. Push a fir tree mount into each hole.

**NOTE: The 0.7 yd<sup>3</sup> hopper spreader has knockouts in the end cap for use instead of drilled holes.**

**NOTE: Stainless steel is a durable material. For best results, use a sharp drill bit with proper lubrication.**

2. Secure the strobe light harness to the hopper with the fir tree mount cable ties.

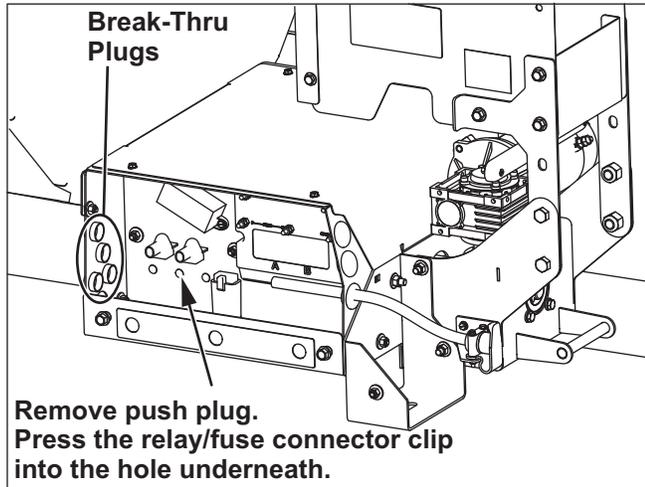
For 0.35 yd<sup>3</sup> and 0.7 yd<sup>3</sup> hopper spreaders, fewer fir tree mount cable ties may be used.



3. The strobe light kit contains two harness assemblies: 56" and 72". Determine your harness routing and connect the appropriate harness to each strobe light.

- Cut holes in one of the break-thru plugs and feed the harness into the enclosure. The holes should be sized to form a tight seal around the harness.

#### Full-Size HELIXX™ Spreader

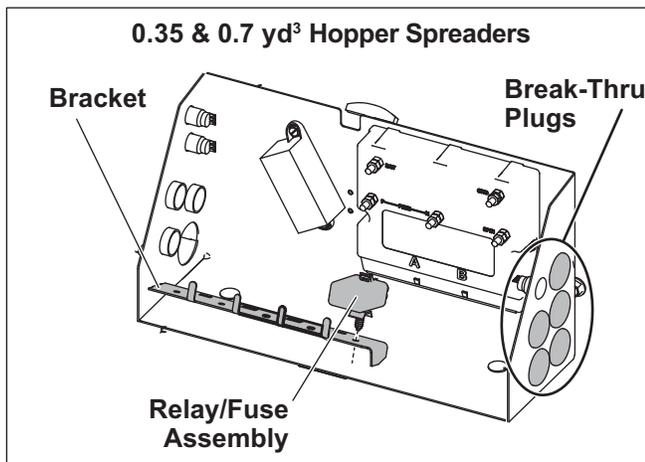


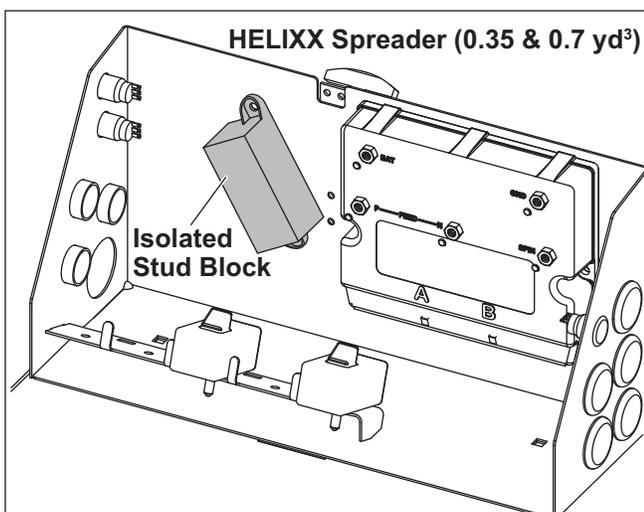
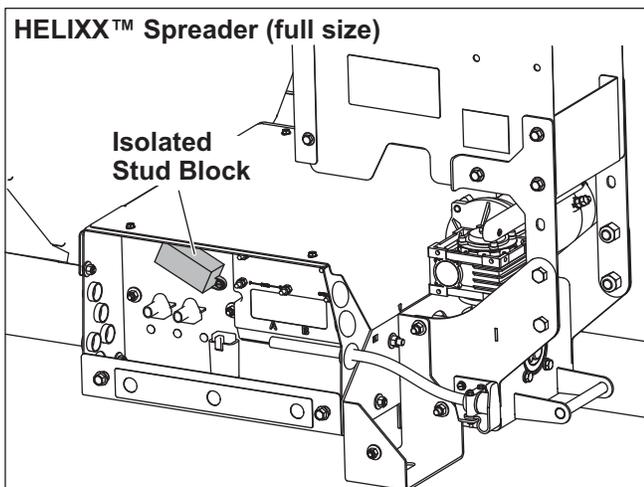
- Remove a push plug from a mount hole on the electrical box and mount the relay/fuse by pushing the connector clip on the back of the assembly into the mount hole.

#### Electrical Connections

- Plug the relay/fuse harness 10-pin connector into the relay/fuse assembly.
- Plug the strobe light harness connectors into the matching connectors on the relay/fuse assembly harness.
- Remove the cover from the isolated stud block and connect the relay/fuse assembly harness red wire to the POSITIVE (+) terminal and the black wire to the NEGATIVE (-) terminal. Replace the cover, being careful not to pinch any wires. On spreader installations with multiple accessories, it may be necessary to notch the sides of the isolated stud block cover to accommodate all the wires.

#### 0.35 & 0.7 yd<sup>3</sup> Hopper Spreaders





4. Connect the single-pin terminal on the relay/fuse assembly harness (yellow wire) to the white wire coming from port A of the spreader module.

## Strobe Light Operation

The strobe light comes with a pre-set flash pattern. In some instances, it is possible for this default pattern to change to a "Steady ON" mode. Should this occur, the flash pattern can be changed to any of 11 flash patterns listed in the table below.

1. Cut the wire seal off the yellow wire and strip 1/4" of insulation.
2. With the strobe ON, intermittently apply 12V from the vehicle power supply to the yellow wire until the strobe achieves the desired flash pattern:

MODE	PATTERN
0	Random
1	Steady
2	Single
3	Mega
4	Double
5	Triple
6	Quad
7	Quint
8	8 Flash
9	Single-Quad
10	Single H/L
11	Single-Triple-Quint

3. Reseal the yellow wire.

**NOTE: The white wire is not used.**

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