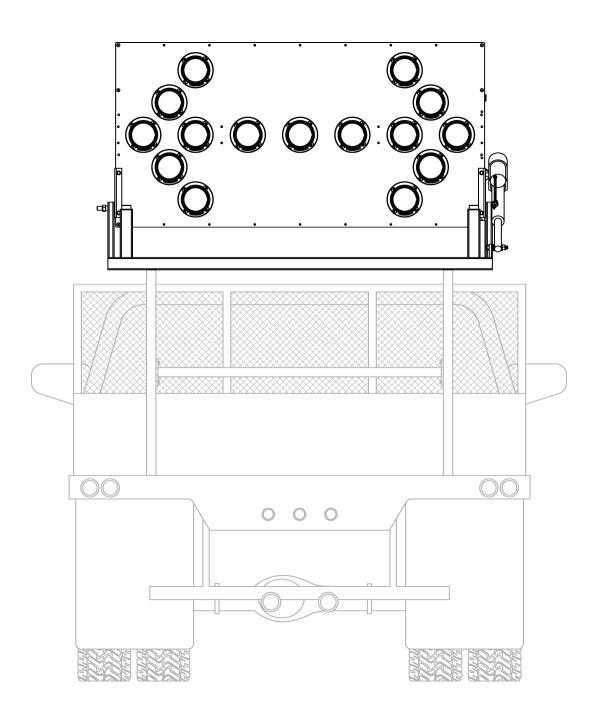


TRUCK-MOUNT ARROW BOARDS

MODELS WB, WFB, WLP & WVG
PRODUCT SPECIFICATIONS | APRIL 2015



1. DESCRIPTION

1.1. Description Arrow boards direct traffic by flashing a brightly lit arrow pattern on a large, highly visible

display panel. Wanco® Truck-Mount Arrow Boards provide an obvious solution for convoys, crash-cushion (TMA) trucks and emergency repair crews. Installed over the cab or in a truck bed, power is provided by the truck's power system. Arrows and other patterns are selected by the user using the arrow board controls inside the truck cab.

1.2. Models

1.2.1. Sizes 24 x 48 inch (61 x 122cm)

30 x 60 inch (76 x 152cm) 36 x 72 inch (92 x 183cm) 48 x 96 inch (122 x 244cm)

1.2.2. Lights 24 x 48 size 13-light

All other sizes 15-light

25-light

1.2.3. Mounting options See "Options and Optional Equipment"

1.2.4. Model numbers See Exhibit A

2. FEATURES

2.1. Operation • High-output amber LEDs

• Selection of arrow and other display patterns

• Easy to operate and maintain

• Controller located inside truck cab

Control box outputs have short-circuit protection, helping prevent blown transistors

Selectable automatic or manual dimming

Meets MUTCD

2.2. Power system • Wired into truck's power system

Power system includes reverse polarity protection and low-voltage disconnect circuit

• Controller has resettable fuses

2.3. Maintenance • Durable powder-coat finish resists the elements

· Lamps and visors are easily replaced

2.4. Application Common applications include:

- Roadwork zones
- Road striping convoys
- Road sweeping convoys
- Pothole repairs
- Crash cushion (TMA) trucks

2	n	CD	$I \wedge V$

protection

3.	DISPLAY								
3.1.	Panel								
3.1.1.	Description	Weather-resistant ca	binet provides a rigid platform for LED lamps						
3.1.2.	Construction		cted of aluminum channel, $3'' \times 1'' \times 1/8''$ thick. Two interior channels event distortion of front and rear panels. All channel joints are						
		•	s constructed of aluminum sheet, 5052-H32, 0.062" (1.575mm) thick. d screwed to frame and interior channels.						
3.1.3.	Finish		Oven-baked, flat-black (10% gloss), powder-coat finish ensures durability and corrosion protection. Panel assembly is high-pressure phosphate-washed prior to finish coat.						
3.2.	Lights								
3.2.1.	Description	variety of arrows and	Display lights are laid out across the front face of the display panel. The layout allows for a variety of arrows and other patterns to appear depending on which lights are lit. The desired pattern is selected by the operator, using the arrow board controls.						
3.2.2.	Туре	24 x 48 size 30 x 60 size	PAR 36 LED lamp, 4½" (11.5cm) dia.						
		36 x 72 size 48 x 96 size	PAR 46 LED lamp, 5¾" (14.5cm) dia.						
		See Options and Opt	ional Equipment for other lamps						
3.2.3.	Light output	24 x 48 size 30 x 60 size	121 cd max. brightness						
		36 x 72 size 48 x 96 size	320 cd max. brightness						
3.2.4.	Reverse-polarity	Protects lamps if con	Protects lamps if control box wiring is connected backwards (which sometimes happens						

after servicing)

Color range	3.2.5.	LEDs	Technology	AllnGaP II (aluminum indium gallium phosphide) technology, T-1¾ size
Temperature limits Operating temperature, -22 to 185°F (-30 to 85°C) 3.2.6. Lens Function Each lamp has an integrated hex lens that enhances the brightness and angularity of each LED while reducing power consumption Material Acrylic Beam angle Horizontal: 16.8 degrees, ±8.4 degrees Vertical: 9.5 degrees, ± 4.75 degrees Angle determined by 10% of peak candle power (certified by independent testing laboratory) 3.2.7. Visor Function Each lamp is shrouded by a visor that enhances visibility by shading the lamp and preventing glare Material High-impact ABS plastic Mounting Four keyed slots enable visor to be removed from the display panel without removing screws 3.2.9. Replacement Lamps can be replaced in less than two minutes. The only tool needed is a Philips screwdriver. 3.3. Standards Meets requirements for minimum size, legibility, and number of elements per MUTCD, December 2009 ed., \$6F.61, ¶05, Temporary Traffic Control Zone Devices: Arrow Boards 24 x 48 size Meets specs for MUTCD Type A 30 x 60 size Meets specs for MUTCD Type B 36 x 72 size Meets specs for MUTCD Type B			Color range	Amber, 590 to 593 nm
3.2.6. Lens Function Each lamp has an integrated hex lens that enhances the brightness and angularity of each LED while reducing power consumption Material Acrylic Beam angle Horizontal: 16.8 degrees, ±8.4 degrees Vertical: 9.5 degrees, ± 4.75 degrees Angle determined by 10% of peak candle power (certified by independent testing laboratory) 3.2.7. Visor Function Each lamp is shrouded by a visor that enhances visibility by shading the lamp and preventing glare Material High-impact ABS plastic Mounting Four keyed slots enable visor to be removed from the display panel without removing screws 3.2.8. Visibility At least 1 mile (1.6km) 3.2.9. Replacement Lamps can be replaced in less than two minutes. The only tool needed is a Philips screwdriver. 3.3. Standards Meets requirements for minimum size, legibility, and number of elements per MUTCD, December 2009 ed., §6F.61, ¶05, Temporary Traffic Control Zone Devices: Arrow Boards 24 x 48 size Meets specs for MUTCD Type A 30 x 60 size 36 x 72 size Meets specs for MUTCD Type B			Forward voltage	2.0 to 2.1Vdc @ 20mA
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December 2009 ed., §6F.61, ¶05, Temporary Traffic Control Zone Devices: Arrow Boards 24 x 48 size Meets specs for MUTCD Type A 30 x 60 size Meets specs for MUTCD Type B 36 x 72 size	3.2.9.	Replacement	•	ed in less than two minutes. The only tool needed is a Philips
30 x 60 size Meets specs for MUTCD Type B 36 x 72 size	3.3.	Standards	· · · · · · · · · · · · · · · · · · ·	
36 x 72 size			24 x 48 size	Meets specs for MUTCD Type A
48 x 96 size Meets specs for MUTCD Type C				Meets specs for MUTCD Type B
			48 x 96 size	Meets specs for MUTCD Type C

4. CONTROLLER

4.1.	Function	and controls automa	noose an arrow or other display pattern. Maintains display flash-rate tic dimming. Two models: one for flashing-only display patterns, and sequential patterns; choice depends on user requirements.					
		See "Options and Op	tional Equipment" for wireless controller option.					
4.2.	Control box							
4.2.1.	Enclosure	Construction	Polycarbonate-ABS plastic					
		Size	Flashing-only model: 4.5" x 2.9" x 2" (11.4 x 7.3 x 5.1cm), W x H x D					
			Sequential models: 6.6" x 2.9" x 2.3" (16.8 x 7.3 x 5.8cm), W x H x D					
			Size does not account for mounting bracket or wiring connectors					
4.2.2.	Wiring	15-foot (4.57m) cable with wiring connector at free end; hard-wired to arrow board, connected by installer to back of control box inside truck cab						
		18ga. standard wire in weatherproof cable						
		See "Options and Optional Equipment" for cable length options						
4.2.3.	Location	User-installed, typica	User-installed, typically inside truck cab under dashboard					
4.2.4.	Mounting	=	nting bracket attaches to truck with bolts, provided; allows for rol box to be adjusted; requires space behind control box for wiring					
4.2.5.	Serviceability	Entire control box is I	removable for easy exchange and factory servicing					
4.3.	Control panel							
4.3.1.	Display switch		ential models has a toggle switch for turning arrow board display on models, display pattern rotary switch includes "off" position					
4.3.2.	Display pattern selection		tor simply points the switch at the desired display pattern, which is e front of the control panel					
4.3.3.	Tilt switch	Toggle switch for con	trolling optional power-operated tilt-frame					
		See "Options and Op	tional Equipment" for mounting-frame options					
4.3.4.	Brightness switch	Toggle switch for condimming	trolling arrow board display brightness and optional automatic					
		See "Options and Op	tional Equipment" for automatic dimming option					

4.3.5. LED indicators All models Indicator lights when power to arrow board display is on

Sequential model Indicator lights while operating tilt switch

LEDs laid out in a grid show selected display pattern

4.4. Display patterns

4.4.1. All models All arrow boards can display any of the following 5 patterns (for samples, see Exhibit B):

Flashing arrow, left or right 10 lights total

5 lights form arrowhead5 lights form stem

Flashing double arrow 13 lights total

5 lights form each arrowhead

3 lights form stem

Flashing four-corner warning 4 lights total

1 light at each corner

Flashing caution-bar warning 7 lights form horizontal bar across center of

display panel

4.4.2. Sequential models In addition to the patterns described above, 15- and 25-light arrow boards with sequential

capability can display the following 2 patterns (for samples, see Exhibit B):

Sequencing stem arrow, left or right 10 lights total

5 lights form arrowhead5 lights form full stem

1st pulse: 2 far stem lights 2nd pulse: 5 far stem lights 3rd pulse: full arrow shape 4th pulse: blank display

4.4.3. 25-light models In addition to the patterns described above, 25-light arrow boards can display any of the

following 5 patterns (for samples, see Exhibit B):

Sequencing walking arrow, left or right 10 lights total

5 lights form arrowhead5 lights form full stem

1st pulse: 2 far stem lights with arrowhead 2nd pulse: 3 far stem lights with arrowhead

3rd pulse: full arrow shape 4th pulse: blank display Sequencing chevron arrows, left or right 15 lights total

5 lights form each arrowhead

1st pulse: 1 far arrowhead 2nd pulse: 2 far arrowheads 3rd pulse: 3 arrowheads 4th pulse: blank display

Alternating diamonds 16 lights total

8 lights form each diamond

1st pulse: 1 diamond shape on left 2nd pulse: 1 diamond shape on right

4.5. Electronics

4.5.1. Location Inside control box

4.5.2. Temperature limits Operating temperature: -40 to 176°F (-40 to 80°C)

4.5.3. Flash rate 30 to 40 per minute, all display patterns

4.5.4. Positive drive circuit Positive power applied to lamps only when lit

Negative is chassis grounded

4.5.5. Fuse protection Each driver is current-protected

4.5.6. Reverse-polarity

protection

Protects the controller if battery cables are connected backwards (which sometimes

happens after servicing)

4.5.7. Low-voltage

disconnect

Low-voltage-disconnect circuit engages when battery voltage drops to 11.2Vdc, shutting

down power to protect batteries from full discharge

5. POWER SUPPLY

5.1. Source Arrow board display, controller, and optional actuator are all powered by vehicle

alternator system

5.2. Load Typical 8.4A @ 13.6Vdc

Maximum Arrow board only: 5.0A @ 13.6Vdc

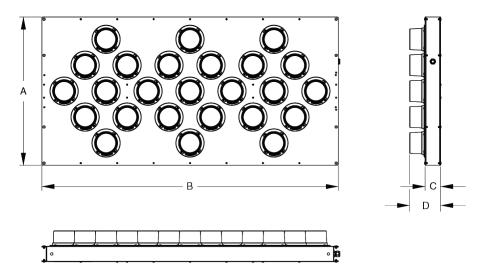
Arrow board and optional power-operated tilt-frame: 20.0A @ 13.6Vdc

5.3. Voltage Minimum 11.0Vdc

Maximum 18.0Vdc

6. **DIMENSIONS & WEIGHT**

6.1. Dimensions



Dimensions in inches (cm)

Arrow board size	А	В	С	D
24 x 48	24	48	3 1/8	6 3/8
	(60.9)	(121.9)	(7.9)	(15.8)
30 x 60	30	60	3 1/8	6 3/8
	(76.2)	(152.4)	(7.9)	(15.8)
36 x 72	36	72	3 1/8	8 1/4
	(91.4)	(182.8)	(7.9)	(21.0)
48 x 96	48	96	3 1/8	8 1/4
	(121.9)	(243.8)	(7.9)	(21.0)

6.2. Weight

24 x 48 size Approx. 42 lbs. (19kg)

30 x 60 size Approx. 72 lbs. (33kg)

36 x 72 size Approx. 100 lbs. (45kg)

48 x 96 size Approx. 112 lbs. (51kg)

7. OPTIONS AND OPTIONAL EQUIPMENT

7.1. Cable length Custom cable lengths are available for mounting control box; contact factory for details

7.2. PAR 46 lamps Substitute PAR 46 LED lamps for standard lamps on 15-light 30 x 60 arrow board

7.3. Auto-dimming A photocell detects ambient light; the controller adjusts the brightness of the LEDs

accordingly, dimming display brightness in darkness, increasing to full brightness in

daylight

Photocell is located on arrow board display-panel frame

7.4. Wireless Controller and arrow board communicate wirelessly via radio transmitters. Must be **communication** specified at time of arrow board order. Cannot be retrofit on wired arrow boards.

Touchscreen controller replaces standard, hard-wired controller. Full-color interface allows arrow board configuration and control and, if installed, power-tilt-frame control.

Controller power cord is fused, plugs into vehicle power outlet/cigar lighter. Arrow board power cable is fused, attaches to vehicle power in accordance with vehicle manufacturer's

instructions.

System electronics located inside arrow board display cabinet.

7.5. Mounting options A variety of standard mounting frames and brackets are available for installing the arrow

boards. See below for details.

Custom options are also available; contact factory for details.

29 3/4 (75.4)

7.5.1. Manual-tilt (auto-lock) frame

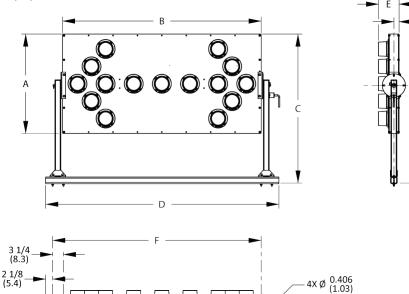
Description

Allows the arrow board to be tilted manually. A spring-loaded locking pin snaps into place automatically, locking the board in the vertical position (when deployed) or horizontal position (when not in use).

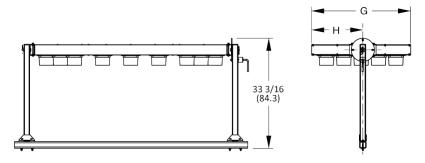
Base model WFB

Dimensions inches (cm)

Deployed



Travel position



Arrow board size	Α	В	С	D	E	F	G	Н
24 x 48	24	48	41 3/4	58 1/2	6 3/16	51	24	12
	(60.9)	(121.9)	(106.1)	(148.6)	(15.8)	(129.5)	(60.9)	(30.5)
30 x 60	30	60	44 3/4	70 1/2	6 3/16	63	30	15
	(76.2)	(152.4)	(113.7)	(179.1)	(15.8)	(160.0)	(76.2)	(38.1)
36 x 72	36	72	47 3/4	82 1/2	8 1/4	75	36	18
	(91.4)	(182.8)	(121.3)	(209.6)	(21.0)	(190.5)	(91.4)	(45.7)
48 x 96	48	96	53 3/4	106 1/2	8 1/4	99	48	24
	(121.9)	(243.8)	(136.5)	(270.5)	(21.0)	(251.5)	(121.9)	(60.9)

Weight Frame only, approx. 50 lbs. (22kg)

7.5.2. 90 degree power-tilt frame

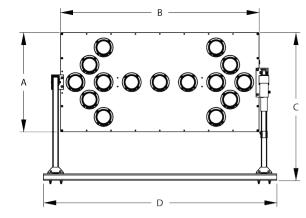
Description

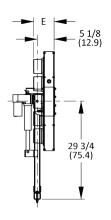
Allows the arrow board to be tilted electrically. An electric actuator tilts the frame 90 degrees. The arrow board can be vertical (the deployed position) or horizontal (when not in use). The actuator is controlled with a toggle switch located inside the truck cab.

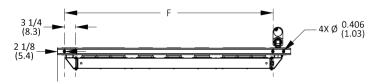
Base model WFBP

Dimensions inches (cm)

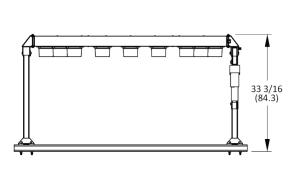
Deployed

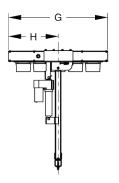






Travel position





Arrow board size	Α	В	С	D	E	F	G	Н
24 x 48	24	48	41 3/4	58 1/2	6 3/16	51	24	12
	(60.9)	(121.9)	(106.1)	(148.6)	(15.8)	(129.5)	(60.9)	(30.5)
30 x 60	30	60	44 3/4	70 1/2	6 3/16	63	30	15
	(76.2)	(152.4)	(113.7)	(179.1)	(15.8)	(160.0)	(76.2)	(38.1)
36 x 72	36	72	47 3/4	82 1/2	8 1/4	75	36	18
	(91.4)	(182.8)	(121.3)	(209.6)	(21.0)	(190.5)	(91.4)	(45.7)
48 x 96	48	96	53 3/4	106 1/2	8 1/4	99	48	24
	(121.9)	(243.8)	(136.5)	(270.5)	(21.0)	(251.5)	(121.9)	(60.9)

Weight

Frame only, approx. 70 lbs. (32kg)

7.5.3. 90 degree power-tilt low-profile frame

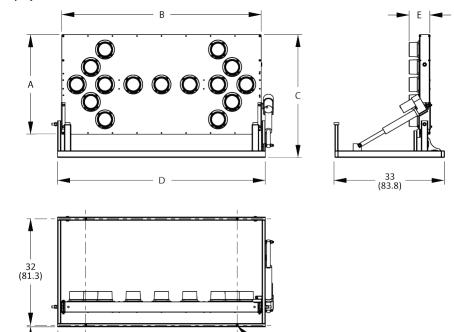
Description

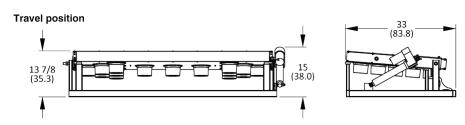
Allows the arrow board to be tilted electrically. An electric actuator tilts the frame 90 degrees. The arrow board can be vertical (the deployed position) or horizontal (when not in use). In the horizontal position, the arrow board and frame has a low-profile height. The actuator is controlled with a toggle switch located inside the truck cab.

Base model WLP

Dimensions inches (cm)

Deployed





4X Ø (1.35)

Arrow board size	Α	В	С	D	E	F
30 x 60	30	60	37	62 1/2	6 3/16	8 1/2
	(76.2)	(152.4)	(94.0)	(158.8)	(15.8)	(21.6)
36 x 72	36	72	39	74 1/2	8 1/4	14 1/2
	(91.4)	(182.8)	(99.1)	(189.2)	(21.0)	(36.8)

Weight Frame only, approx. 60 lbs. (27kg)

7.5.4. 180 degree power-tilt frame

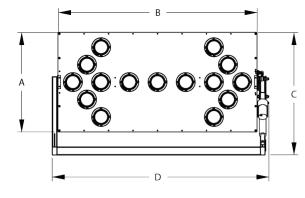
Description

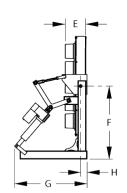
Allows the arrow board to be tilted electrically. An electric actuator tilts the frame 180 degrees. The arrow board can face forward or backward when deployed) or downward (when not in use). The actuator is controlled with a toggle switch located inside the truck cab.

Base model WFP

Dimensions inches (cm)

Rear facing







Arrow board size	A	В	С	D	E	F	G	Н	J
30 x 60	30	60	37	65 3/8	6 3/16	22	21 7/8	1 15/16	51 3/16
	(76.2)	(152.4)	(94.0)	(166.0)	(15.8)	(55.9)	(55.4)	(4.9)	(130.0)
36 x 72	36	72	40	77 3/8	8 1/4	21 7/8	21 3/4	1 13/16	63 3/16
	(91.4)	(182.8)	(101.6)	(196.4)	(21.0)	(55.6)	(55.2)	(4.6)	(160.5)

Weight Frame only, approx. 110 lbs. (50kg)

7.5.5. Tailgate mounting brackets

Allows the arrow board to be installed in a fixed position on a truck tailgate. The brackets clamp to the tailgate for permanent or temporary installation.

7.5.6. Truck-bed mounting brackets

Allows the arrow board to be installed in a truck bed. Two brackets bolt to the bed and support either the 90-degree manual-tilt or 90-degree power-tilt frame.

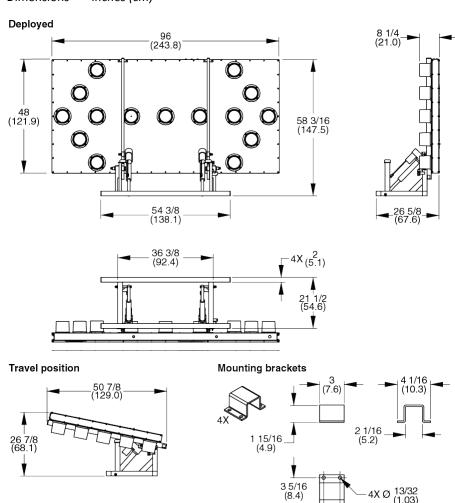
7.5.7. Low-profile trailer-mount frame

Description

Allows the arrow board to be installed on a trailer, but is specifically designed for easy installation on a Traffix® Devices Scorpion® attenuator trailer. On the Scorpion trailer, two uprights slide into brackets on the front end of the trailer frame and are bolted in place. On other trailers, custom brackets must be user-supplied.

Model WFBD8

Dimensions inches (cm)



Weight Frame only, approx. 88 lbs. (40kg)

EXHIBIT A: MODEL NUMBERS

5 FLASHING ARROW PATTERNS

Display size	# of lights	No mounting	Manual tilt (auto-lock)	90° power-tilt	Low-profile 90° power-tilt	180° power-tilt	Tailgate mount	Trailer mount
24 x 48	13	WB4-LA	WFB4-LA	WFBP4-LA	_	_	WVGB4-LA	_
30 x 60	15	WB5-LA	WFB5-LA	WFBP5-LA	WLP90B5-LA	WFP180B5-LA	WVGB5-LA	_
36 x 72	15	WB6-LA	WFB6-LA	WFBP6-LA	WLP90B6-LA	WFP180B6-LA	WVGB6-LA	_
48 x 96	15	WB8-LA	WFB8-LA	WFBP8-LA	_	_	WVGB8-LA	WFBD8-LA

5 FLASHING & 2 SEQUENTIAL ARROW PATTERNS

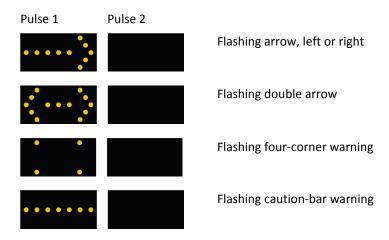
Display size	# of lights	No mounting	Manual tilt (auto-lock)	90° power-tilt	Low-profile 90° power-tilt	180° power-tilt	Tailgate mount	Trailer mount
30 x 60	15	WB5-LSA	WFB5-LSA	WFBP5-LSA	WLP90B5-LSA	WFP180B5-LSA	WVGB5-LSA	_
36 x 72	15	WB6-LSA	WFB6-LSA	WFBP6-LSA	WLP90B6-LSA	WFP180B6-LSA	WVGB6-LSA	_
48 x 96	15	WB8-LSA	WFB8-LSA	WFBP8-LSA	_	_	WVGB8-LSA	WFBD8-LSA

5 FLASHING & 7 SEQUENTIAL ARROW PATTERNS

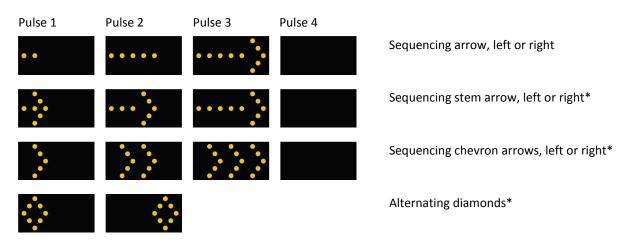
Display size	# of lights	No mounting	Manual tilt (auto-lock)	90° power-tilt	Low-profile 90° power-tilt	180° power-tilt	Tailgate mount	Trailer mount
30 x 60	25	WB5-LSAC	WFB5-LSAC	WFBP5-LSAC	WLP90B5-LSAC	WFP180B5-LSAC	WVGB5-LSAC	_
36 x 72	25	WB6-LSAC	WFB6-LSAC	WFBP6-LSAC	WLP90B6-LSAC	WFP180B6-LSAC	WVGB6-LSAC	_
48 x 96	25	WB8-LSAC	WFB8-LSAC	WFBP8-LSAC	_	_	WVGB8-LSAC	WFBD8-LSAC

EXHIBIT B: DISPLAY PATTERNS

Flashing patterns



Sequential patterns



^{*}Available only on 25-light arrow board models