

National Electric Gate Company



**National Electric Gate
Product Catalog**



TABLE OF CONTENTS

GATE ARMS

Fiberglass Extendable Roadway Arm	4
Alumi-Glass Extendable Roadway Arm	5
High Wind Profile Gate Arm	6
Individual Sections - Hi Intensity Vertical Striping	8
Articulated Gate Arms	9
Articulated Gate Arm Stangent & Off Stangent	11
Flex Tip Sections	12
Buffer Leg	13

BREAKAWAY CONVERSION

Gate-Saver - One way	14
Gate-Saver - Two way	15
Conversion Brackets & Assemblies (Mast-Mounted Gates)	16

GATE LAMPS

Gate Lamps	17
New NEG Light Set	18
Reverse Diode Gate Light Kit	19
LED Gate Arm Light Set	20

HIGH WIND BRACKETS

High Wind Brackets and Mast Extensions	21
----------------------------------------------	----

MISCELLANEOUS

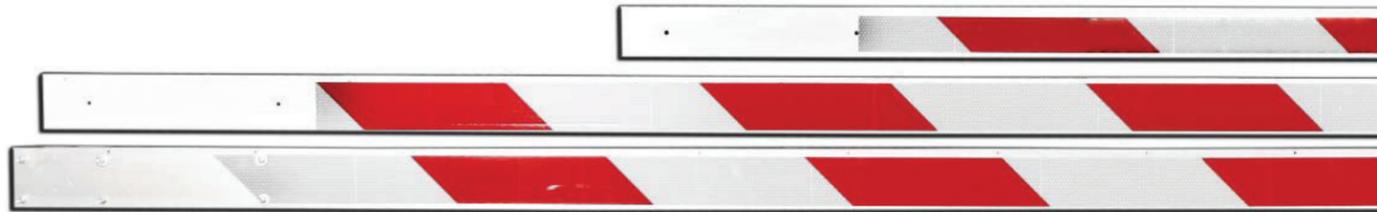
Electronic Crossing Bell	22
Signage	23
M22759 - Tefcel Case Wire	24
RR1 Bond Strand Bare & Insulated	25
Insulated Test Links and Terminals / Terminal & Bus Connectors	26
Replacement Gate Tape	27

ABOUT US	28
-----------------------	----

CONTACT US	29
-------------------------	----

NOTES	30
--------------------	----

FIBERGLASS EXTENDABLE ROADWAY ARM



Fiberglass Gate Arms 8' to 48' <i>Sidewalk Gates Available</i>		
Item Number	Description	NEG Number
	Complete Gate (Length range: 8'-40')	NEG-8001-#
1	Fiberglass 1st section (Length range: 8', 16', 21', 24')	NEG-501-#
2	Fiberglass 2nd section (Length range: 4'-16')	NEG-502-#
3	Fiberglass 3rd section (Length range: 4'-16')	NEG-503-#
4	Base Section Hardware	Please Call
5	2nd Section Hardware	Please Call
6	3rd Section Hardware	Please Call

Insert desired length where the "#" appears in the above part numbers.

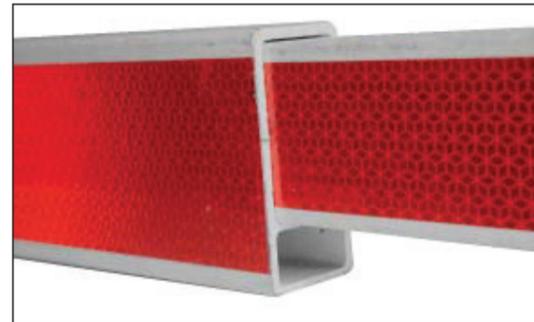
ALUMI-GLASS EXTENDABLE ROADWAY ARM



Alumi-Glass Gate Arms 8' to 48' (Call for Specific Lengths) <i>Sidewalk Gates Available</i>		
Item Number	Description	NEG Number
	Complete Gate Arm	NEG-8003-#
1	Aluminum 1st Section (Length range: 8', 16', 21', 24')	NEG-2120-#
2	Fiberglass 2nd Section (Length range: 4'-21')	NEG-502-#
3	Fiberglass 3rd Section (Length range: 4'-16')	NEG-503-#
4	Base Section Hardware	Please Call
5	2nd Section Hardware	Please Call
6	3rd Section Hardware	Please Call

Insert desired length where the "#" appears in the above part numbers.

HIGH WIND PROFILE GATE ARM



Detail on Reflective Pattern



National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

HIGH WIND PROFILE GATE ARM



Our High Wind Profile Gates are designed to withstand higher wind speeds than other gates we offer. The inner strength member allows for the gate to withstand impact; and the “step” design significantly decreases the surface area of each section allowing more tolerance for high wind speeds. All of our High Wind Profile Gates can be ordered in any length ranging from 8’ to 40’.

- Our Alumi-Lite High Wind Profile Gate utilizes aluminum for every section of the gate.
- Our Alumi-Glass High Wind Profile Gate utilizes an aluminum 1st section, a fiberglass 2nd section, and a fiberglass 3rd section.
- Our Fiberglass High Wind Profile Gate utilizes fiberglass for all sections of the gate.

ALUMI-LITE HIGH WIND PROFILE GATE - utilizes aluminum for every section of the gate

Length Range	Description	NEG Number
8’ - 40’	Alumi-Lite High Wind Profile Gate	NEG-8007A-#
8’, 16’, 2’, 24’	High Wind Profile Aluminum 1st Section	NEG-3130-#
4’ - 16’	High Wind Profile Aluminum 2nd Section	NEG-1WCA502-#
4’ - 16’	High Wind Profile Aluminum 3rd Section	NEG-1WCA503-#

ALUMI-GLASS HIGH WIND PROFILE GATE - utilizes an aluminum 1st section, a fiberglass 2nd section, and a fiberglass 3rd section

Length Range	Description	NEG Number
8’ - 40’	Alumi-Glass High Wind Profile Gate	NEG-8007-#
8’, 16’, 21’, 24’	High Wind Profile Aluminum 1st Section	NEG-3130-#
4’ - 16’	Fiberglass High Wind Profile Aluminum 2nd Section	NEG-1WC502-#
4’ - 16’	Fiberglass High Wind Profile Aluminum 3rd Section	NEG-1WC503-#

FIBERGLASS HIGH WIND PROFILE GATE - utilizes fiberglass for all sections of the gate

Length Range	Description	NEG Number
8’ - 40’	Fiberglass High Wind Profile Gate	NEG-8005-#
8’, 16’, 21’, 24’	Fiberglass High Wind Profile 1st Section	NEG-1WC501-#
4’ - 16’	Fiberglass High Wind Profile 2nd Section	NEG-1WC502-#
4’ - 16’	Fiberglass High Wind Profile 3rd Section	NEG-1WC503-#

Insert desired length where the “#” appears in the above part numbers.

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

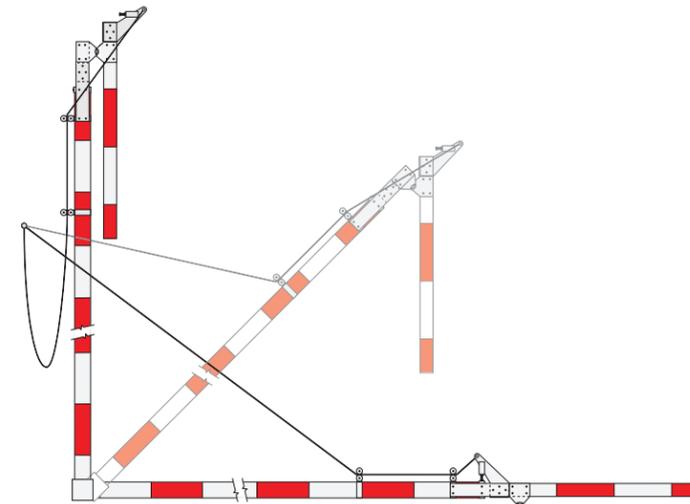
INDIVIDUAL GATE SECTIONS - HI INTENSITY VERTICAL STRIPING



ARTICULATED GATE ARMS

Standard Aluminum Base Sections	NEG Part #s
8 Ft Aluminum Base Section	NEG-2120HV-8S?
16 Ft Aluminum Base Section	NEG-2120HV-16S?
21 Ft Aluminum Base Section	NEG-2120HV-21S?
24 Ft Aluminum Base Section	NEG-2120HV-24S?
"?" Replace with desired sleeve length	EX. 2 for 2ft Sleeve
Standard Fiberglass Base Sections	NEG Part #s
8 Ft Fiberglass Base Section	NEG-501HV-8S?
16 Ft Fiberglass Base Section	NEG-501HV-16S?
"?" Replace with desired sleeve length	EX. 2 for 2ft Sleeve
Standard Fiberglass 2nd Sections	NEG Part #s
8 Ft Fiberglass 2nd Section	NEG-502HV-8
12 Ft Fiberglass 2nd Section	NEG-502HV-12
16 Ft Fiberglass 2nd Section	NEG-502HV-16
21 Ft Fiberglass 2nd Section	NEG-502HV-21
Standard Fiberglass 3rd Sections	NEG Part #s
8' Ft Fiberglass 3rd Section	NEG-503HV-8
12 Ft Fiberglass 3rd Section	NEG-503HV-12
16 Ft Fiberglass 3rd Section	NEG-503HV-16
Sleeve Reinforcements	NEG Part #s
2 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-2SL
4 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-4SL
6 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-6SL
8 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-8SL
10 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-10SL
12 Ft Aluminum Sleeve Insert for Base Section Gates	NEG-12SL

High Wind Profile Aluminum Base Sections	NEG Part #s
8 Ft HWP Aluminum Base Section	NEG-3130HV-8S?
16 Ft HWP Aluminum Base Section	NEG-3130HV-16S?
21 Ft HWP Aluminum Base Section	NEG-3130HV-21S?
24 Ft HWP Aluminum Base Section	NEG-3130HV-24S?
"?" Replace with desired sleeve length	EX. 2 for 2ft Sleeve
High Wind Profile Fiberglass Base Sections	NEG Part #s
8 Ft HWP Fiberglass Base Section	NEG-1WC501AHV-S?
16 Ft HWP Fiberglass Base Section	NEG-1WC501BHV-S?
"?" Replace with desired sleeve length	EX. 2 for 2ft Sleeve
High Wind Profile Aluminum 2nd Sections	NEG Part #s
10 Ft HWP Aluminum 2nd Section	NEG-1WCA502BHV
16 Ft HWP Aluminum 2nd Section	NEG-1WCA502CHV
High Wind Profile Fiberglass 2nd Sections	NEG Part #s
8 Ft HWP Fiberglass 2nd Section	NEG-1WC502BHV
16 Ft HWP Fiberglass 2nd Section	NEG-1WC502CHV
High Wind Profile Aluminum 3rd Sections	NEG Part #s
10 Ft HWP Aluminum 3rd Section	NEG-1WCA503BHV
12 Ft HWP Aluminum 3rd Section	NEG-1WCA503CHV
High Wind Profile Fiberglass 3rd Sections	NEG Part #s
10 Ft HWP Fiberglass 3rd Section	NEG-1WCA503BHV
12 Ft HWP Fiberglass 3rd Section	NEG-1WCA503CHV



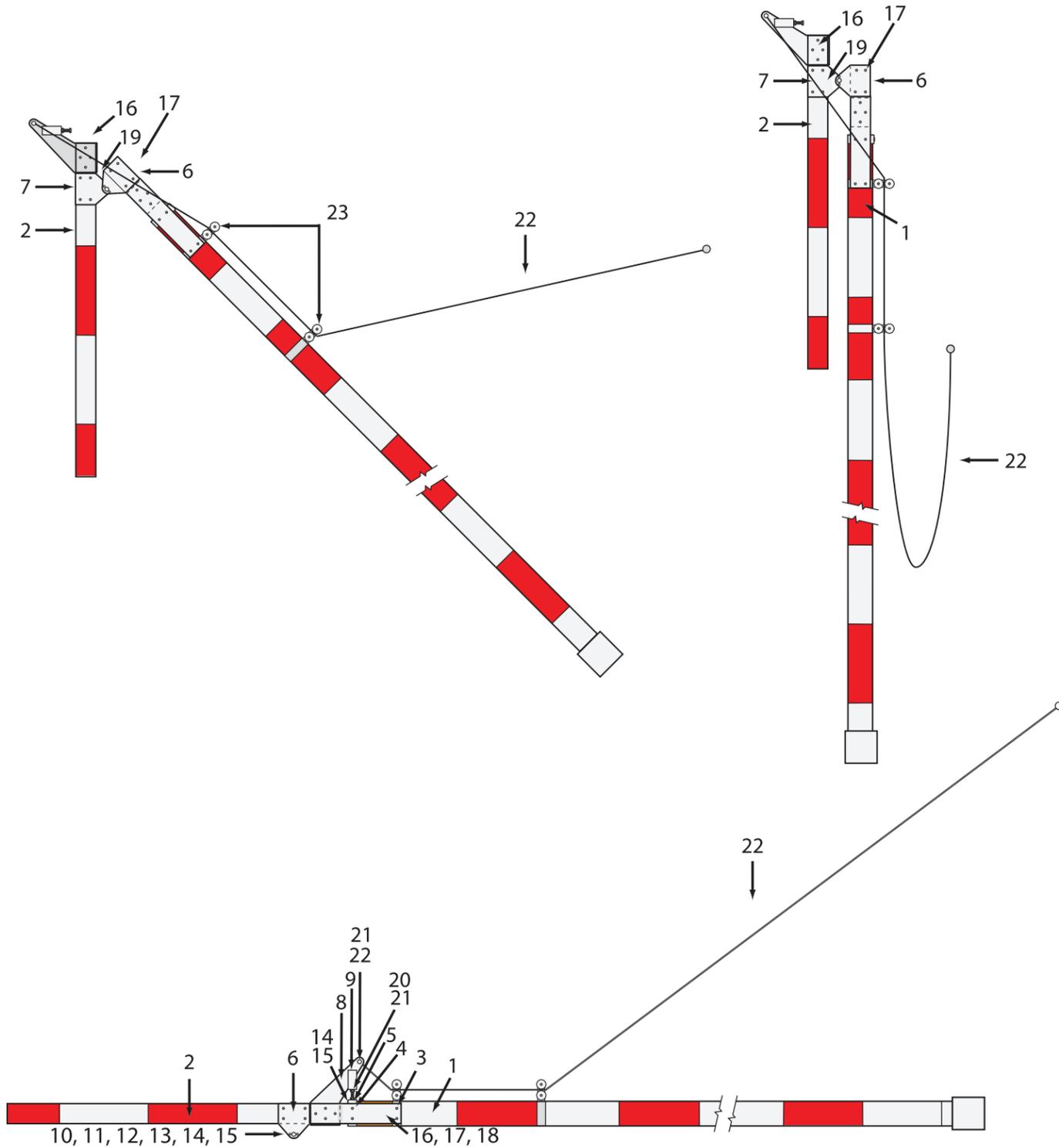
*articulate 30% of original length.

We have had over 20 years experience with articulated gates and now offer a standard arm for your special requirements. Articulated gates are used in areas of overhead power lines and cantilevers that would otherwise obstruct a gate arm in its upright position. Articulated gates fold at one third the length as to decrease the vertical position, so the gate does not get hung up with aforementioned items.

Please use the following parts list to order specific replacement items for maintenance. See detailed drawings on following page.

ORDERING INFORMATION			
Item Number	Section	Description	Requirements
1	2nd Section	NEG 502 - Add Length Plus A.G.T.	
2	3rd Section	NEG 503 - Add Length Plus A.G.T.	
3	Spacer Block	3/4 x 1 1/2 x 4 3/4 Aluminum Flat	4 Required
4	Extension Plate	1/4 x 4 x 24 Aluminum Flat	2 Required
5	Stop Bar	1/4 x 1 1/2 x 5 Aluminum Flat	1 Required
6	Hinge Plate	1/4 x 6 1/4 x 7 1/8 Aluminum Flat	2 Required
7	Swivel Plate	1/4 x 6 1/4 x 7 1/8 Aluminum Flat	2 Required
8	Cable Plate	1/8 x 10 x 13 1/2 Steel Plate	2 Required
9	Striker Support	1 1/2 x 4 x 3/16 x 1 1/2 Steel Angle	2 Required
10	Brass Bushing	See Detailed Drawing	2 Required
11	Steel Shaft	See Detailed Drawing	1 Required
12	Hex Nut	1/2 - 13 Hex Stainless Steel	2 Required
13	Cotton Pin	1/8 x 1 1/2 Stainless Steel	2 Required
14	Hex Head Cap Screw	1/4 - 20 x 3/4 Stainless Steel	6 Required
15	Split Lock Washer	1/4 Stainless Steel	6 Required
16	Internal Lock Washer	5/16 Stainless Steel	24 Required
17	Hex Head Cap Screw	5/16 - 18 x 1 3/4 Stainless Steel	8 Required
18	Hex Head Cap Screw	5/16 - 18 x 1 Stainless Steel	16 Required
19	Hex Head Cap Screw	1/2 - 13 x 3 1/2 Stainless Steel	2 Required
20	Hex Jam Nut	1/2 - 13 Stainless Steel	8 Required
21	Threaded Rod	1/2 - 13 x 3 1/2 Stainless Steel	1 Required
22	Guye Wire Cable Assembly	NEG (Length of Gate Arm)	
23	Pully System	NEG (Length of Gate Arm)	
24	Offset Stangent	NEG (5 A.G.T. - 10 NEG / 5 A.G.T.-12)	
25	Regular Stangent	NEG (5 A.G.T. - 5)	

ARTICULATED GATE ARMS

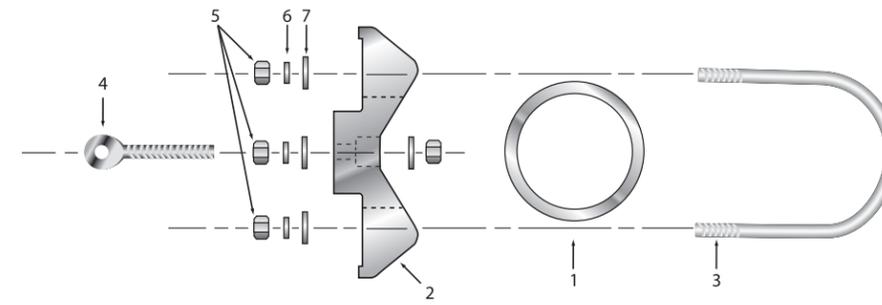


24 - Not in drawing
25 - Drawing upon request

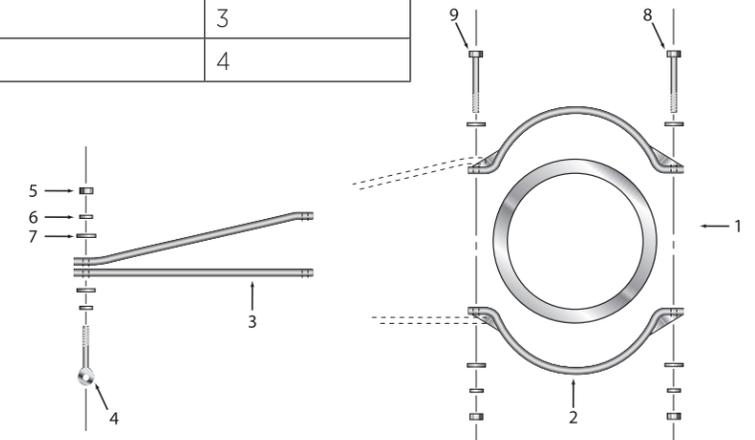
National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

ARTICULATED GATE ARM - STANGENT & OFF-SET STANGENT



ARTICULATED GATE ARM - STANGENT		
Item	Description	Qty. Required
1	5" Mast Pole	X
2	Cast Aluminum Mast Bracket	1
3	1/2" Stainless Steel U-Bolt	1
4	1/2" x 3" Eye Bolt	1
5	1/2" - 13 Hex Nut Stainless Steel	4
6	1/2" Washer - Split Lock Stainless Steel	3
7	1/2" Washer - Medium Flat Stainless Steel	4

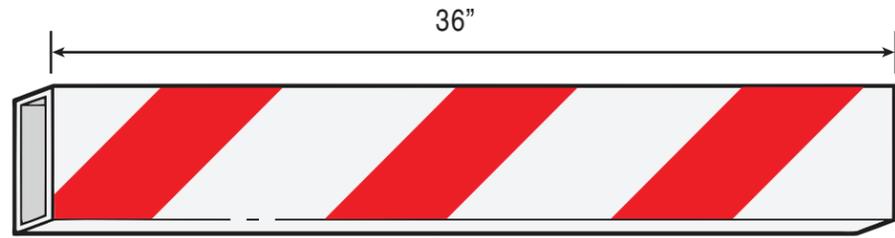


ARTICULATED GATE ARM - OFF-SET STANGENT		
Item	Description	Qty. Required
1	Mast Pole	X
2	Steel Strap	2
3	Steel Extension Arm	1
4	1/2" x 3" Eye Bolt	1
5	1/2" - 13 Hex Nut Stainless Steel	4
6	1/2" Washer - Split Lock	3
7	1/2" Washer - Medium Flat	6
8	1/2" - 13 x 3 1/2 Screw - Hex Head Cap	1
9	1/2" - 13 x 4 1/2 Screw - Hex Head Cap	1

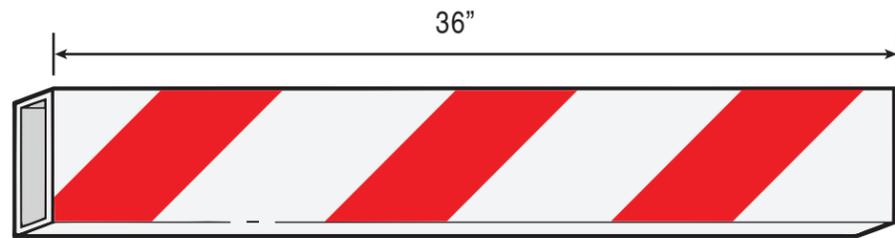
National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

FLEX TIP SECTIONS



NEG 504-SL



NEG 504-TP

National Electric Gate has realized a usage for a short tip section that is flexible in use and can be used to fit in the second or third sections of the crossing gate arm in usage today. This section allows the crossing gate arm to remain in place if a car or truck illegally passes a crossing gate arm in a down position. This section then returns to its original position. We use a copolymer that is excellent in extreme cold and hot conditions that might occur outdoors.

ORDERING INFORMATION

“Alumi-Glass” Crossing Gate Arms

NEG 504-SL

*These items come in a kit and allow you to adapt your tip section to the gate arm of either a second or third section.

High Wind Profile Crossing Gate Arms

NEG 504-TP

Please Call the factory for quantity price breaks. All material is in stock ready for immediate shipment.

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

BUFFER LEG



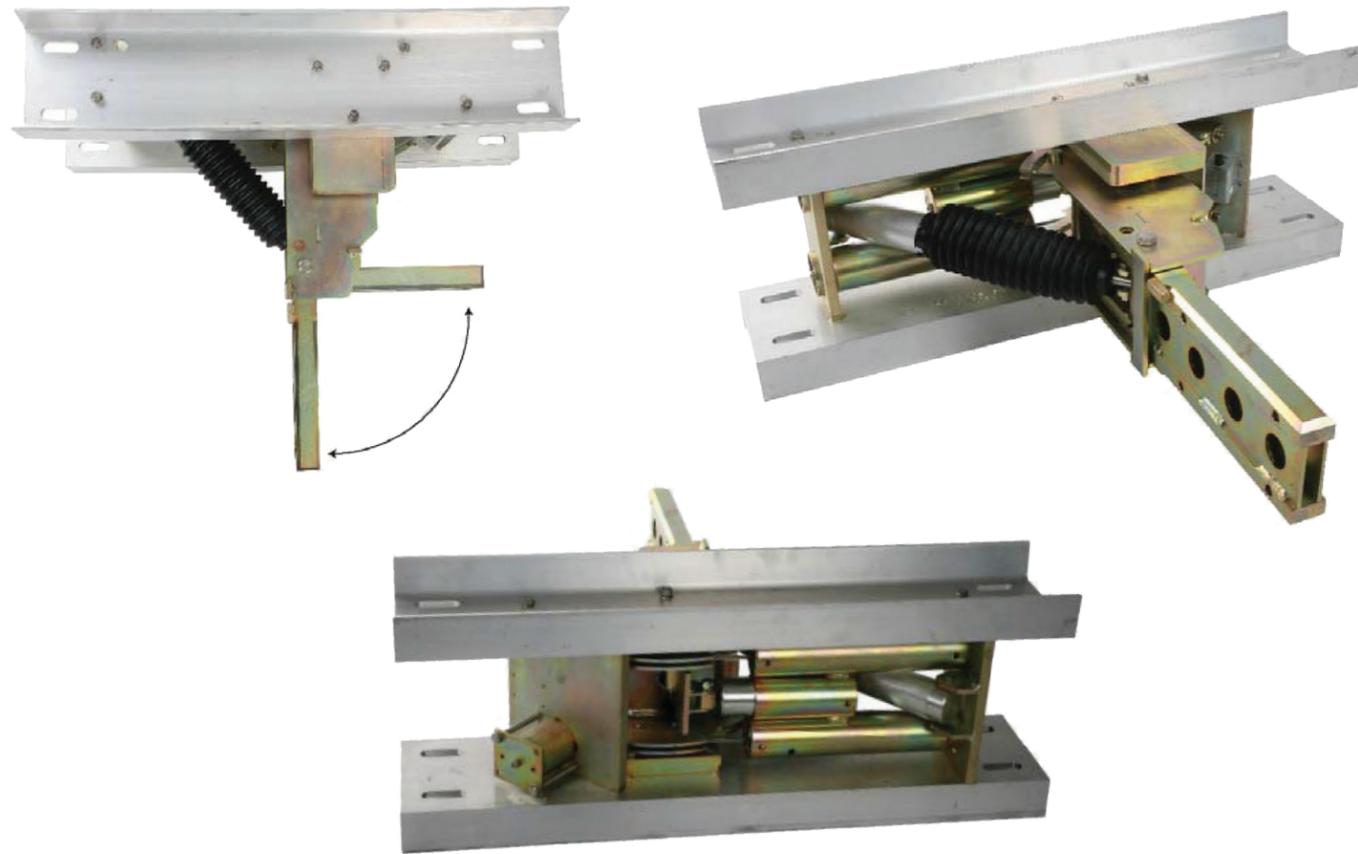
ORDER ITEM NUMBER:

NEG 130B

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

GATE-SAVER - ONE-WAY



ORDERING INFORMATION

Gate-Saver is the most versatile gate arm saver in the railroad industry. It allows gate arms, hit by a moving vehicle, to rotate out of the way and return to the original position without damaging the arm.

The all-new Gate-Saver can handle gate lengths up to 38 feet long in all types of applications, eliminating the need to carry more than one type of Gate-Saver in your inventory.

A few of the benefits of this "Gate-Saver" breakaway is that it works with gate arms up to 42 feet, also it will disengage, so as to allow the maintainer to fix or install a new gate arm off to the side of the road but still be installed and affixed to the counterweight arms. This is a real safety factor for the maintainer. Another point of interest, is that our "Gate-Saver" has a counter attached to it so it will actually give you feed back as to the number of times a vehicle hits the gate arm. And last but not least, the "Gate-Saver works on exit and entrance applications.

Let us put one at your busiest intersection/crossing and show you the immediate cost savings Gate-Saver can provide.

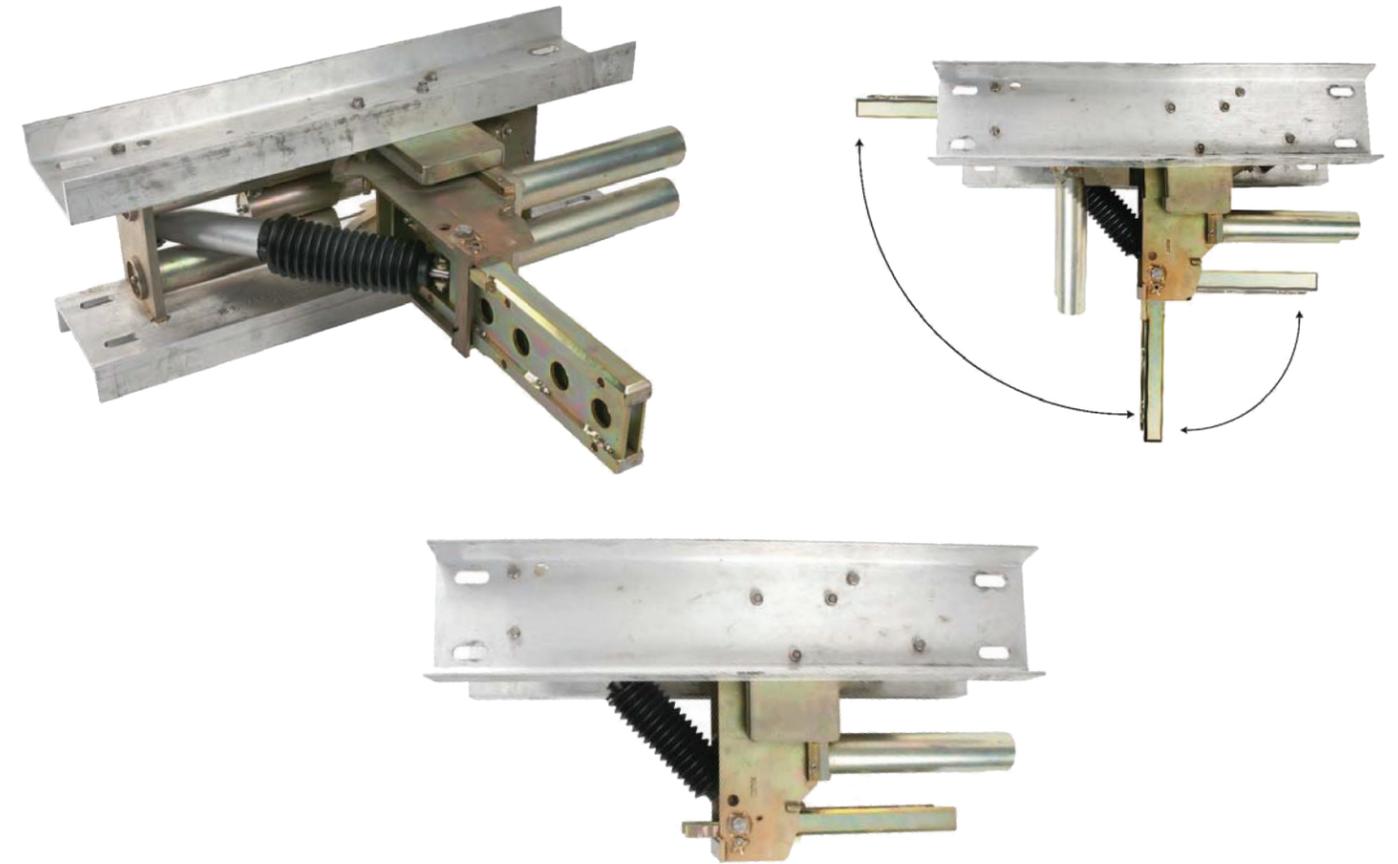
ORDER ITEM NUMBER:

NEG 385102GS | NEG 74GS "shear bolt"

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

GATE-SAVER - TWO-WAY



ORDERING INFORMATION

Gate-Saver 2-WAY is the most versatile gate arm saver in the railroad industry. It allows gate arms, hit by a moving vehicle from either direction, to rotate out of the way and return to the original position without damaging the arm.

The all-new Gate-Saver 2-WAY can handle gate lengths up to 38 feet long in all types of applications, eliminating the need to carry more than one type of Gate-Saver in your inventory.

A few of the benefits of this "Gate-Saver" breakaway is that it works with gate arms up to 42 feet, also it will disengage, so as to allow the maintainer to fix or install a new gate arm off to the side of the road but still be installed and affixed to the counterweight arms. This is a real safety factor for the maintainer. Another point of interest, is that our "Gate-Saver" has a counter attached to it so it will actually give you feed back as to the number of times a vehicle hits the gate arm. And last but not least, the "Gate-Saver works on exit and entrance applications.

Let us put one at your busiest intersection/crossing and show you the immediate cost savings Gate-Saver 2-WAY can provide.

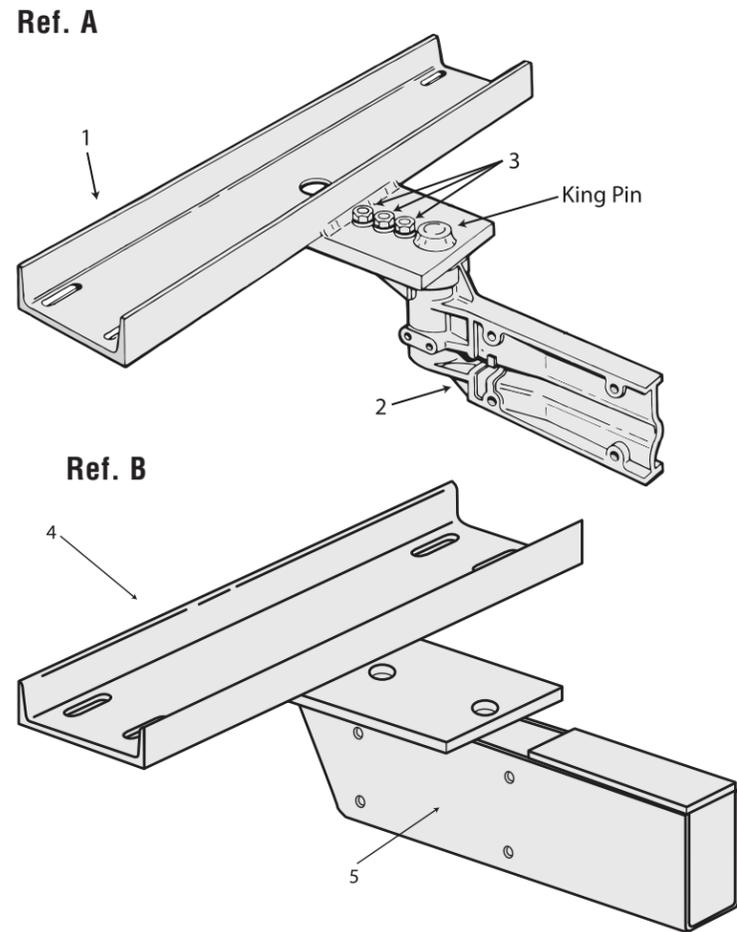
ORDER ITEM NUMBER:

NEG385102GS-2W | NEG74GS-2W "shear bolt" | NEG74GS-2W1 "long shear bolt"

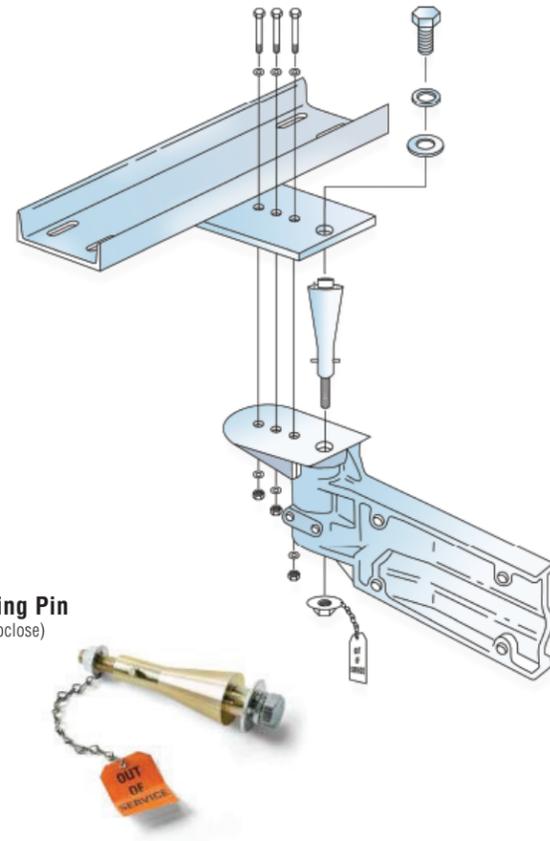
National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

CONVERSION BRACKETS & ASSEMBLIES MAST-MOUNTED GATES



Conversion Bracket
(Break down)



ORDERING INFORMATION

Reference	Description	NEG Number
A	Complete Conversion Bracket (with Cast Adapter)	385102
B	Complete Conversion Bracket (with Fabricated Adapter)	681040

REPLACEMENT PARTS

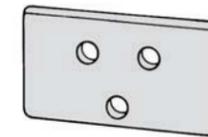
Reference	Description	NEG Number
1	Conversion Bracket Only (Ref. A)	385102C
2	Cast Adapter (Ref. A)	385102ADP
3	Shear Bolt Assembly	74
4	Conversion Bracket Only (Ref. B)	681040C
5	Fabricated Adapter (Ref. B)	681040ADP



LIGHT BRACKET



NEG-SLB500



NEG-SLB5TA



NEG-SSW



NEG-183CC



Our new sliding light bracket is an added dimension to the already existing telescoping adjustable gate arms of ours. The sliding light bracket along with our coil, cord assembly makes this gate arm unit a very simple maintenance free assembly to install and maintain. The sliding light bracket (SLB) makes the installation of the gate arms and light a very easy process. Adjustments are timeless, using the set screws, and all parts are interchangeable and can be purchased piecemeal. Your installation time now for the gate arms should save your maintainer 50% of his time. The SLB spacers allows a firm fit on any section of the gate arms.



NEW NEG LIGHTSET



COMPARISON CHART

Parameter	NEG
Input Voltage Range AC/DC	8-18V
Avg. Current 12VDC Input @25 deg. C	280ma
Max Current @ Max Input Voltage	<320ma @ 18V
Light Output @ 12V Input	Light output very consistent as light stays on. Approximately 35% more light output at 12V
Heat Dissipation	Approximately 20 deg. C less heat dissipation
Tips light pulsing	None

ORDERING INFORMATION

NEG Order Number	Description
NEG--2018-3DCLED	Complete light kit
NEG-2018-1DCLED	Individual Lamp heads
NEG-2018-CC-L	Long Coil Cords
NEG-2018-CC-S	Short Coil Cords
NEG-2018-SC	Straight Cord
NEG-2018-L	Replacement Lens
NEG-2018-G	Replacement Gasket
NEG-2018-TLC	Tip Lamp Cap

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

REVERSE DIODE GATE LIGHT KIT



LIGHT ELECTRICAL SPECIFICATIONS

Parameter	NEG	Competitor
Input Voltage Range AC/DC	8-18V	8-15V
Avg Current 12VDC Input @25 deg. C	280ma	330ma
Max Current @ Max Input Voltage	< 320ma @ 18V	< 350ma @ 15V
Light Output @ 12V Input	Light output very consistent as light stays on. Approximately 35% more light output at 12V	Light output decreases as light stays on. Less light output
Heat Dissipation	Approximately 20 deg C less heat dissipation	Approximately 20 deg C more heat dissipation
Tip light pulsing	None	Slight pulse

The purpose of these 2 different lamp heads is to maintain proper current flow to the LED Tip Lamp. The IXC, CCU-2, and XLC crossing controllers are some crossing controllers that require a special diode setup in the Tip Lamp to ensure proper functionality. Some symptoms of erratic behavior include not being able to sync the lights correctly (Tip light not staying solid), flickering lights, and lights not fully extinguishing when flashing.

NEG	Part Number
Tip Lamp Assembly for CCU-2 & XLC	NEG-2018-1DCLED-RD-A
Tip Lamp Assembly for IXC	NEG-2018-1DCLED-RD-B
Complete Light Kit with RD-A (Short Cords)	NEG-2018-3DCLEDSC-RD-A
Complete Light Kit with RD-B (Short Cords)	NEG-2018-3DCLEDSC-RD-B
Complete Light Kit with RD-A (Long Cords)	NEG-2018-3DCLEDLC-RD-A
Complete Light Kit with RD-B (Long Cords)	NEG-2018-3DCLEDLC-RD-B

Installation Instructions

Unlike our competitor you are not required to purchase any additional parts to make these Tip Lamps function. We have internally wired the fix for you and all you will need to do is replace your current tip lamp with the new RD-A or RD-B. You can order an individual head to retro fit an existing light set or you can order a complete reverse diode light kit. In either instance make sure that the tip lamp that is labeled RD-A or RD-B is positioned as the TIP LAMP or it will not function correctly and could cause an LED failure. *Note* The Mid and Base lamp heads will not be marked at all, so position those in their normal location.

Please contact our sales team if you need further technical assistance.

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

LED GATE ARM LIGHT SET



National Electric Gate Company has an LED Array Gate Arm Light Set for the most demanding railroad crossing applications. "Yours"!! National Electric Gates LED light set is practically indestructible and mounts on top of your gate arm for great visibility. Made of polycarbonate, which gives this light box the durability for continued abuse in most knockdown traffic conditions, the LED array gate arm lights are in stock and ready for your toughest crossing applications.



OPERATING SPECIFICATIONS

Operating Voltage	8.5V AC/DC - 18V AC/DC
Minimum Forward Current	10mA
Typical Max Current Draw (At 10V DC)	0.30A
Typical Max Power Consumption (At 10V DC Per Light)	-3.0W
Dominant Wavelength	0.629mm (RED)

PERFORMANCE STANDARDS

Vibration (X,Y and Z Axis)	A.R.E.M.A. 2006, MIL-STD 810F
Operating Temperature	-40° C to 70° C
IP Rating	IP 65
Electronic Noise	A.R.E.M.A. 2006
Storage Temperature	-40° C to 85° C



6 - Part #: NEG-2018-3LEDARR

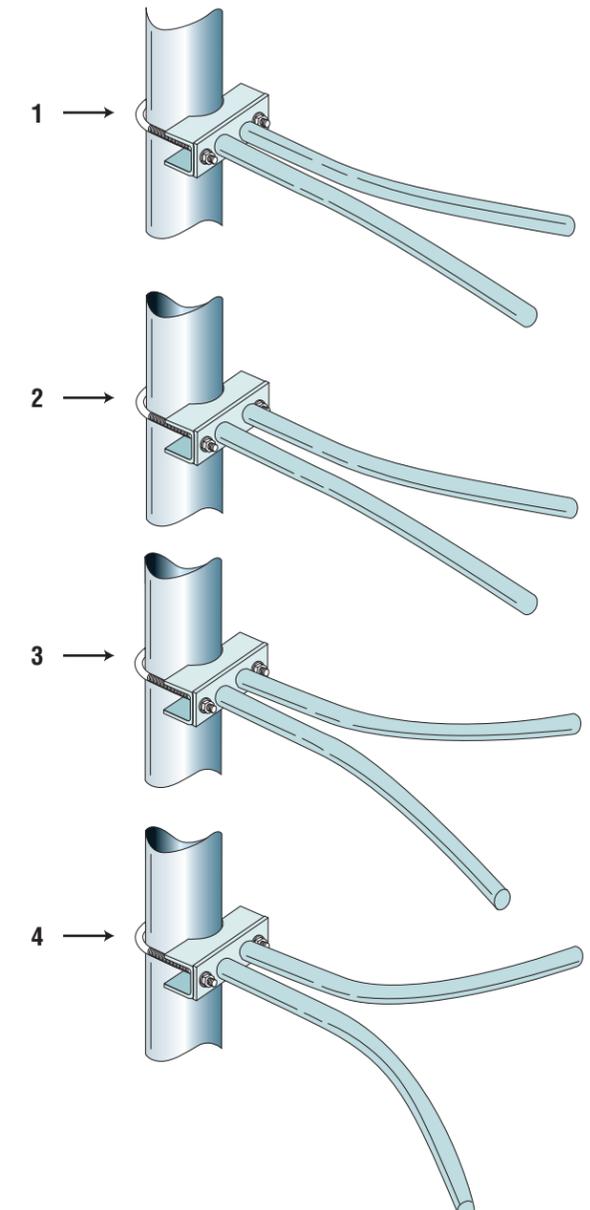
ORDERING INFORMATION

Item	Description	NEG Number
1	LED Array Base and Middle Lamp	NEG-2018-1LEDARR
2	LED Array Tip Lamp	NEG-2018-1LEDARR-TIP
3	Straight Cord	NEG-2018-203SCARR
4	Individual Coil Cords	NEG-2018-203CCARR
5	Hardware Pack	NEG-2018-LEDARR-HW
6	Complete Light Kit	NEG-2018-3LEDARR

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

HIGH WIND BRACKETS AND MAST EXTENSIONS



STUB MAST

Item	Description	NEG Number
1	High Wind Bracket 30" Mouth	WIG-191030
2	High Wind Bracket 36" Mouth	WIG-191036
3	High Wind Bracket 48" Mouth	WIG-191048
4	High Wind Bracket 60" Mouth	WIG-191060
5	Drilling Fixture for Mast Extension Installation	FIX-EX-121001
Not Shown	Mast Extension to Convert Stub Mast to 15 ft.	WIG-EX-121000

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

ELECTRONIC CROSSING BELL



SIGNAGE



**AREMA
COMPLIANT**

**ADJUSTABLE
VOLUME**

The tone of the bell is on a microchip and is sounded thru an outdoor speaker. The warning sound is a duplicate of the mechanical bell sound. It utilizes the same electrical leads as the mechanical bell and is positioned on top of the mast pole. The electronic bell meets or exceeds all the arema specifications. The bell circuit draws less than 0.15 amps, which is 10 percent of the current draw of the mechanical bell. Sound reading range of 85 to 95 decibels in a 180 degree plane. 250 strokes per minute. Operating voltage of 10 + - 25 % volts dc . Mounts to a 4 or 5 inch mast pole. There is access to the volume control. *Dimensions of bell upon request. Weight is less than 10 pounds.*

FEATURES

Item	Description	NEG Number
1	Electronic Crossing Bell	NEG-1210EBL
Not Shown 2	Loud Tone Bell (109 DD's)	NEG-1210EBL-L
Not Shown 3	Directional Bell (180 Degree)	NEG-1210EBL-D

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com



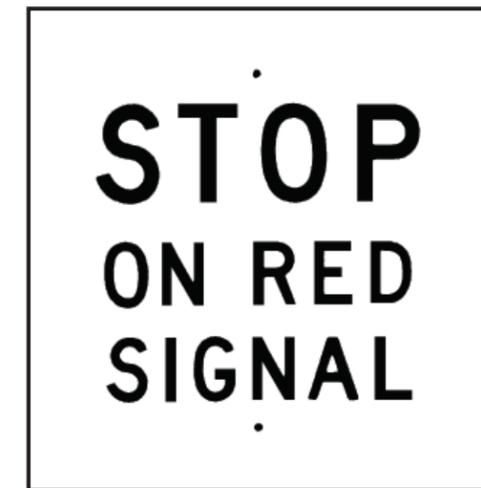
NEG-3348



NEG-3385



NEG-3380H



NEG-3366



NEG-3350-2 3350-3

These are some of our railroad crossing signs available. Please contact our sales people for further details and part identification numbers for ordering information

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

M22759 - TEFCEL CASE WIRE



“Small Diameter”
Tin-Coated Stranded
Copper Conductor



Insulation -
ETFE (Extruded)

ETFE - Ethylene-Tetrafluoroethylene Copolymer

MILITARY SPECIFICATIONS

This specification is approved for use by all Departments and Agencies of the Department of Defense. The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of Specification MIL-W-22759.

CONSTRUCTION DETAILS (TABLE 1)

Part No. *	Wire Size	Stranding (Number of Strands) x AWG Gage of Strands	Diameter of Stranded Conductors (inches)		Finished Wire		
			Min.	Max	Resistance at 20°C (68°F) (ohms/1000 ft.) Max	Diameter (Inches)	Weight (lbs./1000 ft.) Max
M22759/16-20-*	20	19 x 32	.037	.039	9.88	.060 ± .002	5.36
M22759/16-18-*	18	19 x 30	.046	.049	6.23	.071 ± .002	7.89
M22759/16-16-*	16	19 x 29	.052	.055	4.81	.078 ± .002	9.95
M22759/16-14-*	14	19 x 27	.065	.069	3.06	.093 ± .002	14.9
M22759/16-12-*	12	37 x 28	.084	.089	2.02	.114 ± .003	22.6
M22759/16-10-*	10	37 x 26	.106	.112	1.26	.139 ± .003	35.1
M22759/16-8-*	8	133 x 29	.158	.169	.701	.199 ± .003	63.5
M22759/16-6-*	6	133 x 27	.198	.212	.445	.250 ± .003	99.9
M22759/16-4-*	4	133 x 25	.250	.268	.280	.312 ± .004	157.0

Bend Test Mandrels and Test Loads (Table II)

Part No. *	Mandrel Diameter (Inches) (±3%)			Test Load (lbs.) (± 3%)	
	Life Cycle Test and Short Term Thermal Stability Test 1/	Cold Bend Test	Wrap Test 2/	Life Cycle Test and Short Term Thermal Stability Test 1/	Cold Bend Test
M22759/16-20-*	.75	1.00	-	2.0	4.0
M22759/16-18-*	1.00	1.25	-	2.0	4.0
M22759/16-16-*	1.00	1.25	-	3.0	5.0
M22759/16-14-*	1.25	2.00	-	2.0	5.0
M22759/16-12-*	2.00	2.00	-	2.0	5.0
M22759/16-10-*	3.00	3.00	-	2.0	5.0
M22759/16-8-*	3.00	4.00	-	3.0	6.0
M22759/16-6-*	4.00	5.00	-	3.0	10.0
M22759/16-4-*	5.00	6.00	-	3.0	10.0
M22759/16-2-*	6.00	8.00	1.25	4.0	15.0

* Part No.: The asterisks in the part number column, Tables I & II, shall be replaced by color code designators in accordance with MIL-STD-681.
Examples: Size 20, White - M22759/16-20-9;
White with Orange Stripe - M22759/16-20-93

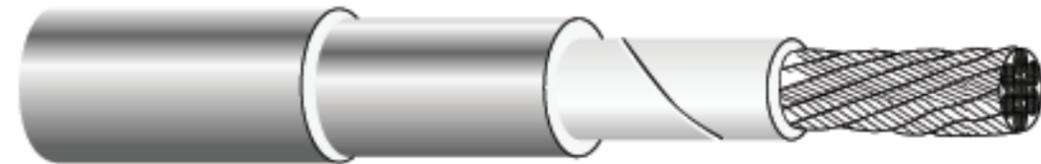
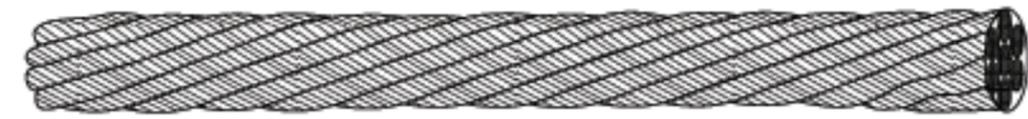
1/ : Also for bend tests after immersion.

2/ : Use mandrel for wire size 2 and larger in “wrap back” test.

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

RR1 BOND STRAND BARE & INSULATED



APPLICATIONS

For use in low voltage track circuit applications, NECCO Bond Strand is available both bare and insulated.

CONSTRUCTION

A single, tinned over bare cadmium bronze conductor (7 x 19 concentric strands, each 0.0132 inch) with an overall circular mil area of 22,173 can be insulated with either polyvinyl chloride (PVC) or rubber/neoprene.

ADVANTAGES

An extremely flexible, yet rugged cable, our Bond Strand is clean stripping, and the specially tempered cadmium bronze hold its shape while being terminated.

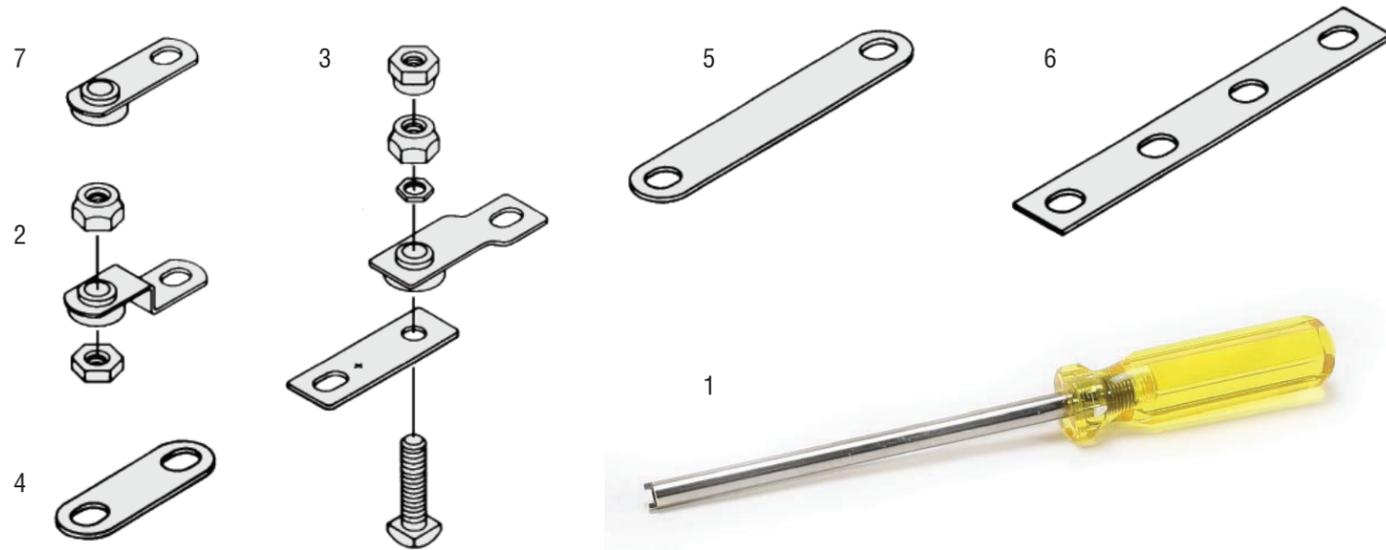
ORDERING INFORMATION

Part No. *	Size AWG	Stranding	Cond. Dia (Inch)	Insul. Thick (Inch)	Insul. Material	Approx O.D. (Inch)	Approx. Net. Wt. (Lbs./MFT.)
NEG-2045C	6	133	.200	Bare	-	.200	78
NEG-133564P	6	133	.200	.062	PVC	.325	124
NEG-133B464PO	6	133	.200	.062	PVC	.325	124
NEG-133464P	6	133	.200	.062	PVC	.325	124
NEG-133664P	6	133	.200	.094 .078	PVC Rubber	.390	147
NEG-2048C	6	133	.200	and .062	Neoprene	.480	168

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

INSULATED TEST LINKS AND TERMINALS / TERMINAL AND BUS CONNECTORS



INSULATED TEST LINKS & TERMINALS

National Electric Gate Testing Links are utilized for applications to any two post terminal where open or closed circuit tests are needed. The Central Insulated Test Link and Insulated Test Terminals allows open and closed circuit tests to be made without disturbing connections on either side of the circuit and also provides a convenient means to open and close a circuit for test purposes.

TERMINAL & BUS CONNECTORS

*These items come in a kit and allow you to adapt your tip section to the gate arm of either a second or third section.

ORDERING INFORMATION

Item	Part No.	Description
1	TW-IM Wrench	Terminal Wrench
2	NEG-ISL-1	Offset Insulated Link with Special Nut & Clamp Nut - 1" Centers
3	NEG-1351	Center Control Insulated Test Link - 2 3/8" Mounting Center
4	NEG-872231	Buss Connector (AAR#10763) - 1 1/2" Centers
5	NEG-982238	Buss Connector (AAR#10764) - 2 3/8" Centers
6	NEG-982230	Buss Connector (AAR#10766) - 1" Centers

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

REPLACEMENT GATE TAPE



HI INTENSITY VERTICAL CUT TAPE (NEW STANDARD)

- Replacement Hi Intensity Vertical Striped Gate Tape
- 1 Roll will re-tape roughly 8 complete 16' gate arms (Front and Back)
- Rolls come in the following dimensions: 150'x4", 150'x3", 150'x2"

HI INTENSITY ANGLED CUT TAPE (OLD STANDARD)

- Replacement Hi Intensity Left/Right Angel Striped Tape
- 1 Roll will re-tape roughly 8 complete 16' gate arms (Front and Back)
- Rolls come in the following dimensions: 150'x4", 150'x3", 150'x2"

HI INTENSITY VERTICAL CUT TAPE

Item Number	Description	NEG Number
1	Hi Intensity Vertical 150' x 4"	NEG-150HV-4
2	Hi Intensity Vertical 150' x 3"	NEG-150HV-3
3	Hi Intensity Vertical 150' x 2"	NEG-150HV-2

HI INTENSITY ANGLED CUT TAPE

Item Number	Description	NEG Number
1	Hi Intensity Horizontal Right Angle 150' x 4"	NEG-150H-R-4
2	Hi Intensity Horizontal Right Angle 150' x 3"	NEG-150H-R-3
3	Hi Intensity Horizontal Right Angle 150' x 2"	NEG-150H-R-2
4	Hi Intensity Horizontal Left Angle 150' x 4"	NEG-150H-L-4
5	Hi Intensity Horizontal Left Angle 150' x 3"	NEG-150H-L-3
6	Hi Intensity Horizontal Left Angle 150' x 2"	NEG-150H-L-2

National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

ABOUT US

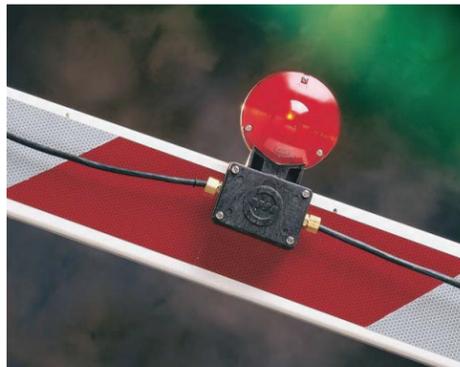


National Electric Gate Company is the leading manufacturer of crossing warning protection materials for the past 30 years.

Our products range from all types of gate arms, such as, "Alumi-Glass", "Alumi-Lite", "High Wind Profile" to articulated gates, conversion brackets in all configurations, to new digital light sets, LEDs, bus bars, insulated test links, insulated tools, bond-strand, Tefcel case wire, and signage. All our gates use diamond grade, high intensity or engineer grade reflective sheeting per customer specifications. Our fiberglass gates exceed 7400 PSI crush & impact test for extended usage in the field.

Conversion Bracket is the industry leader in saving gate arms in the field. All items are normally available from stock with a short delivery time.

For further information, please call email or fax us at our sales and manufacturing facility in Savannah, Georgia.



National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

CONTACT US



National Electric Gate Company

ADDRESS: 252 Pine Barren Road
P.O. Box 706
Pooler, GA 31322

PHONE: 912.748.5090

CELL: 912.596.7426

FAX: 912.748.7542

EMAIL: RSass@NationalElectricGate.com
RyanSass@NationalElectricGate.com



National Electric Gate Company

Phone: 912.748.5090 | Fax: 912.748.7542 | www.NationalElectricGate.com

NOTES



NOTES



National Electric Gate Company

