

Installation and Operation Instructions EB7180 & EB7185 Series LED Beacons

WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!

Do not install and/or operate this safety product unless you have read and understand the safety information

- 1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
- 2. Exercise caution when working with live electrical connections.
- This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
- Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
- 5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
- It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
- 7. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the rightof-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.
- 8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Specifications:

Size EB7180: 6.5" L x 6.5" W x 2.3" H EB7185: 6.5" L x 6.5" W x 3.3" H

Weight EB7180: 1.2 lbs. EB7185: 1.5 lbs.

Input Voltage: 12-24 VDC

Current Draw at 12.8 VDC: EB7180: 6.2A EB7185: 8.6A

Installation & Mounting:

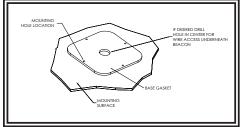
Before installation, examine the LED beacon for transit damage. Do not use damaged or broken parts.

Important! This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

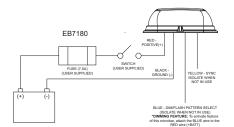
Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

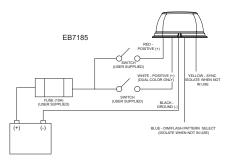
Permanent Mounting:

- 1. The beacon should be mounted to a flat surface or one with the least amount of curvature. The mounting location should allow the maximum visibility of the warning device to other road users, while allowing for sufficient wire access.
- 2 Using the supplied mounting gasket as a template, mark the four (4) drill hole locations on the mounting surface per FIGURE 1.
- 3 Drill mounting holes using a #29 (0.136" [3.45mm] dia.) drill bit
- 4. Drill a 5/16" [8mm] hole for the wires as needed. Remove any sharp edges from this hole.
- Mount the LED beacon along with the mounting gasket 5 using additional grommets or cable protection as necessary to protect the wiring from any sharp edges. Secure the LED beacon to the surface using the included M4x16mm self-tapping screws.









Temporary Mounting, Vacuum-Magnet Mount:

The Vacuum-Magnet Mount feature includes a suction cup on the bottom of the beacon, with a magnet inside of the suction cup, for a secure, temporary mount. The beacon should be placed in the center of the roof where the least amount of curvature occurs. Before installing, make sure the mounting surface is clean and there is no debris on the bottom of the beacon or on the roof of the vehicle, which could reduce the holding power of the suction cup and magnet. Place and remove the beacon without sliding to avoid scratching the paint on the vehicle. After placement, the beacon should adhere firmly to the surface. If the unit slides or moves easily, a proper installation has not been obtained. To release the vacuum. lift the tab to release the airlock (see FIGURE 2). To protect the Vacuum-Magnet Mount assembly, return beacon to the box when not in use. Do not attempt to attach the beacon to an ice-covered surface.



WARNING!

Maximum recommended vehicle speed for safe operation using the Vacuum Mount model is 65 mph (104 km/h), when fitted to the center of a vehicle roof of steel construction. Higher speeds could cause the mount to fail, resulting in the beacon flying off of the vehicle, which could cause damage to other vehicles, and injury or death to the passengers. The vacuum-magnet mount is not intended as a permanent mounting for the beacon. The vacuum-magnet mount unit must be mounted on a flat smooth magnetic surface (i.e. no fiber glass, ribbed style roofs, etc.). Ensure that the magnet is kept clean.

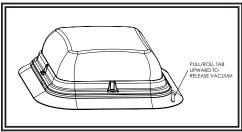


FIGURE 2

BI	ue Wire Function Table
Push Time	Function
0-1 Sec.	Next Pattern
1-3 Sec	Previous Pattern
3-5 Sec.	Set to last pattern (steady burn)

Flash Pattern Selection:

Flash patterns are selected by touching the blue wire to the black ground (-) wire for less than a second. Holding the blue and black wires for longer than a second toggles to the preceding flash pattern.

Synchronization:

Syncing capabilities are available with all compatible ECCO products via the yellow wire with the flash patterns indicated in the charts below:

- Determine the desired style of flash pattern for each unit and set each unit individually (without the yellow wires connected together) to avoid confusion. It is also strongly recommended that the same style of flash pattern be used on all units to produce the most effective warning pattern. NOTE: Phases A and B for each style of flash pattern in the table denote the relative timing between units connected in a synchronizing installation. To operate simultaneously, each unit must be set to the same phase (A + A or B + B); to operate alternately, units must be set to have the opposite phase (A + B or B + A).
- 2. Connect the yellow sync wires together and check that the units are flashing in a synchronized manner as expected. If a pattern on one unit appears incorrect, the blue pattern select wire can be used to cycle forward or backward on that individual unit until the correct pattern is selected. Note: This will only change the pattern in the one unit and will not affect the other units connected by the yellow sync wire.

3. If the yellow wire is unused, leave disconnected and isolated.

S	INGLE COLOR EB7180 AND EE	7185 SERIES	FLASH I	PATTERN	CHART
No.	Description	Phase	Sync	FPM	SAE J845*
1-Default	Single Flash	A	Yes	75	Class I
2	Single Flash	В	Yes	75	Class I
3	Single Flash - Split		Yes	75	N/A
4	Single Flash	А	Yes	120	Class I
5	Single Flash	В	Yes	120	Class I
6	Single Flash - Split		Yes	120	N/A
7	Double Flash	A	Yes	75	Class I
8	Double Flash	В	Yes	75	Class I
9	Double Flash - Split		Yes	75	N/A
10	Double Flash	A	Yes	120	Class I
11	Double Flash	в	Yes	120	Class I
12	Double Flash - Split		Yes	120	N/A
13	Quad Flash	A	Yes	75	Class I
14	Quad Flash	в	Yes	75	Class I
15	Quad Flash - Split		Yes	75	N/A
16	Quad Flash	A	Yes	150	Class I
17	Quad Flash	в	Yes	150	Class I
18	Quad Flash - Split	1	Yes	150	N/A
19	Triple Flash	A	Yes	75	Class I
20	Triple Flash	В	Yes	75	Class I
21	Triple Flash - Split		Yes	75	N/A
22	Quint Flash	A	Yes	150	Class I
23	Quint Flash	В	Yes	150	Class I
24	Quint Flash - Split		Yes	150	N/A
25	Double Flash - Diagonal	A	Yes	150	N/A
26	Double Flash - Diagonal	В	Yes	150	N/A
27	Double Flash - Alternating Wig Wag	1	Yes	150	N/A
28	Quad Flash - Diagonal	A	Yes	150	N/A
29	Quad Flash - Diagonal	В	Yes	150	N/A
30	Quad Flash - Alternating Wig Wag		Yes	150	N/A
31	Rotate		Yes	120	N/A
32	Rotate / Quad Flash		Yes	150/75	N/A
33	Wave Rotate		Yes	70	N/A
34	Random		Yes	N/A	N/A
35	Steady Burn		Yes	N/A	N/A

* Applies to A, B, C & R

			DUAL COLOR EB7185 SERIES FLASH PATTERN CHART	I PATTERN CHA	RT			
Red Wire.	White Wire	Red & White Wires	Description	Phase	Sync	FPM	SAE J845*	CA Title 13**
1-Default		1 - Default	Single Flash - Color 1	A	Yes	75	Class I	Class B
2		2	Single Flash - Color 1	В	Yes	75	Class I	Class B
		3	Single Flash - Split - Color 1 & 2	A	Yes	75	N/A	N/A
		4	Single Flash - Split - Color 1 & 2	в	Yes	75	N/A	N/A
	1 - Default	5	Single Flash - Color 2	A	Yes	75	Class I	Class B
	2	9	Single Flash - Split - Color 2	в	Yes	75	Class I	Class B
3	3	2	Single Flash - Color 1 Then 2	A	Yes	75	N/A	N/A
4	4	8	Single Flash - Color 1 Then 2	в	Yes	75	N/A	N/A
2	2	6	Single Flash - Split - Alternating Color 1 Then 2		Yes	75	N/A	N/A
9		10	Single Flash - Color 1	A	Yes	120	Class I	N/A
7		11	Single Flash - Color 1	В	Yes	120	Class I	N/A
		12	Single Flash - Split - Color 1 & 2	A	Yes	120	N/A	N/A
		13	Single Flash - Split - Color 1 & 2	В	Yes	120	V/N	N/A
	9	14	Single Flash - Color 2	A	Yes	120	Class I	N/A
	7	15	Single Flash - Color 2	в	Yes	120	Class I	N/A
8	8	16	Single Flash - Color 1 Then 2	A	Yes	120	V/N	N/A
6	6	17	Single Flash - Color 1 Then 2	В	Yes	120	N/A	N/A
10	10	18	Single Flash - Split - Alternating Color 1 Then 2		Yes	120	N/A	N/A
11		19	Double Flash - Color 1	A	Yes	75	Class I	Class B
12		20	Double Flash - Color 1	В	Yes	75	Class I	Class B
		21	Double Flash - Split - Color 1 & 2	A	Yes	75	N/A	N/A
		22	Double Flash - Split - Color 1 & 2	В	Yes	75	N/A	N/A
	11	23	Double Flash - Color 2	A	Yes	75	Class I	Class B
	12	24	Doube Flash - Color 2	в	Yes	75	Class I	Class B
13	13	25	Double Flash - Color 1 & 2	A	Yes	75	N/A	N/A
14	14	26	Double Flash - Color 1 & 2	в	Yes	75	V/N	N/A
15	15	27	Double Flash - Split - Alternating - Color 1 & 2		Yes	75	V/N	N/A
16		28	Double Flash - Color 1	A	Yes	120	Class I	N/A
17		29	Double Flash - Color 1	В	Yes	120	Class I	N/A
		30	Double Flash - Split - Color 1 & 2	A	Yes	120	N/A	N/A
		31	Double Flash - Split - Color 1 & 2	В	Yes	120	N/A	N/A
	16	32	Doube Flash - Color 2	А	Yes	120	Class I	N/A
	17	33	Doube Flash - Color 2	В	Yes	120	Class I	N/A

* Applies to A, B, C & R ** Applies to A, B & R

			DUAL COLOR EB7185 SERIES FLASH PATTERN CHARTI(CONTINUED)	RN CHART(CON	TINUED)			
Red Wire.	White Wire	Red & White Wires	Description	Phase	Sync	FPM	SAE J845*	CA Title 13**
18	18	34	Double Flash - Color 1 Then 2	A	Yes	120	NA	N/A
19	19	35	Double Flash - Color 1 Then 2	В	Yes	120	NA	N/A
20	20	36	Double Flash - Split - Alternating - Color 1 Then 2		Yes	120	NA	N/A
21		37	Triple Flash - Color 1	A	Yes	75	Class I	Class B
22		38	Triple Flash - Color 1	В	Yes	75	Class I	Class B
		39	Triple Flash - Color 1 Then 2	A	Yes	75	NA	N/A
		40	Triple Flash - Color 1 Then 2	В	Yes	75	NA	N/A
	21	41	Triple Flash - Color 2	A	Yes	75	Class I	Class B
	22	42	Triple Flash - Color 2	В	Yes	75	Class	Class B
23	23	43	Triple Flash - Color 1 Then 2	A	Yes	75	NA	N/A
		44	Triple Flash - Color 1 Then 2	в	Yes	75	NA	N/A
24	24	45	Triple Flash - Split - Atternating - Color 1 Then 2		Yes	75	NA	N/A
25		46	Quad Flash - Color 1	A	Yes	75	Class I	Class B
26		47	Quad Flash - Color 1	В	Yes	75	Class I	Class B
		48	Quad Flash - Split - Color 1 & 2	A	Yes	75	NA	N/A
		49	Quad Flash - Split - Color 1 & 2	В	Yes	75	NA	N/A
	25	50	Quad Flash - Color 2	A	Yes	75	Class I	Class B
	26	51	Quad Flash - Color 2	В	Yes	75	Class I	Class B
27	27	52	Quad Flash - Color 1 Then 2	A	Yes	75	NA	N/A
28	28	53	Quad Flash - Color 1 Then 2	В	Yes	75	NA	N/A
29	29	54	Quad Flash - Split - Alternating - Color 1 Then 2		Yes	75	NA	N/A
30		55	Quad Flash - Color 1	A	Yes	120	Class I	N/A
31		56	Quad Flash - Color 1	в	Yes	120	Class I	N/A
		57	Quad Flash - Split - Color 1 & 2	A	Yes	120	NA	N/A
		58	Quad Flash - Split - Color 1 & 2	в	Yes	120	NA	N/A
	30	59	Quad Flash - Color 2	A	Yes	120	Class I	N/A
	31	60	Quad Flash - Color 2	В	Yes	120	Class I	N/A
32	32	61	Quad Flash - Color 1 Then 2	A	Yes	120	NA	N/A
33	33	62	Quad Flash - Color 1 Then 2	В	Yes	120	NA	N/A
34	34	63	Quad Flash - Split - Atternating - Color 1 Then 2		Yes	120	NA	N/A
35		64	Double Flash - Diagonal - Color 1	A	Yes	150	NA	N/A

* Applies to A, B, C & R ** Applies to A, B, & R

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(1) <td>Red Wire.</td> <td>White Wire</td> <td>Red & White Wires</td> <td>Description</td> <td>Phase</td> <td>Sync</td> <td>FPM</td> <td>SAE J845*</td> <td>CA Title 13**</td>	Red Wire.	White Wire	Red & White Wires	Description	Phase	Sync	FPM	SAE J845*	CA Title 13**
(1) <td>36</td> <td></td> <td>65</td> <td>Double Flash - Diagonal - Color 1</td> <td>в</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>	36		65	Double Flash - Diagonal - Color 1	в	Yes	150	N/A	N/A
(1) <td></td> <td></td> <td>99</td> <td>Double Flash - Diagonal - Color 1 & 2</td> <td>A</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>			99	Double Flash - Diagonal - Color 1 & 2	A	Yes	150	N/A	N/A
3 6 6 6 6 7 7 7 7 1 3 9			67	Double Flash - Diagonal - Color 1 & 2	в	Yes	150	N/A	N/A
36 60 600 Rode Frahm-Code/2 8 Yes 150 NA NA 137 710 Doub Frahm-Vermeny-WyWey-Code/1Thm 2 P Yes 190 NA NA 138 711 Doub Frahm-Vermeny-WyWey-Code/1Thm 2 P Yes 190 NA NA 149 723 Cond Frahm-Vermeny-WyWey-Code/1Thm 2 P Yes 190 NA NA 140 723 Cond Frahm-Vermeny-WyWey-Code/1Thm 2 P Yes 190 NA NA 141 743 Cond Frahm-Vermeny-WyWey-Code/1Thm 2 P Yes 190 NA NA 142 743 Cond Frahm-Vermeny WyWey-Code/1Thm 2 P Yes 190 NA		35	68	Double Flash - Diagonal - Color 2	A	Yes	150	N/A	N/A
37 70 0006 leadth-Amerating-Wig-Golor1Thind. A Vision		36	69	Double Flash - Color 2	в	Yes	150	N/A	N/A
30 71 Duole fundati-Ameriating-Wig-Golor Thind. 8 7 9 7 9 7 9 7 9 7 9 100	37	37	70	Double Flash - Atternating - Wig Wag - Color 1 Then 2	A	Yes	150	N/A	N/A
(1) <td>38</td> <td>38</td> <td>11</td> <td>Double Flash - Alternating - Wig Wag - Color 1 Then 2</td> <td>в</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>	38	38	11	Double Flash - Alternating - Wig Wag - Color 1 Then 2	в	Yes	150	N/A	N/A
(1) <td>39</td> <td></td> <td>72</td> <td>Quad Flash - Diagonal - Color 1</td> <td>A</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>	39		72	Quad Flash - Diagonal - Color 1	A	Yes	150	N/A	N/A
(1) <td>40</td> <td></td> <td>73</td> <td>Quad Flash - Diagonal - Color 1</td> <td>в</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>	40		73	Quad Flash - Diagonal - Color 1	в	Yes	150	N/A	N/A
(1) <td></td> <td></td> <td>74</td> <td>Quad Flash - Diagonal - Color 1 & 2</td> <td>A</td> <td>Yes</td> <td>150</td> <td>N/A</td> <td>N/A</td>			74	Quad Flash - Diagonal - Color 1 & 2	A	Yes	150	N/A	N/A
30 70 Cuad Flash-Dagonat-Color2 A Yes 150 NA 40 77 Cuad Flash-Dagonat-Color2 B Yes 150 NA 41 78 Cuad Flash-Dagonat-Color2 B Yes 150 NA 42 78 Cuad Flash-Alternating-Wigwag-Color1Then 2 A Yes 150 NA 42 78 Cuad Flash-Alternating-Wigwag-Color1Then 2 A Yes 150 NA 43 81 Rate-Color1 Parte Parte-Color1 Yes 150 NA 44 B 81 Rate-Color1 Yes 150 NA 45 B B Yes 150 Yes NA 46 H B B Yes 150/15 NA 47 B Yes Yes 150/15 NA 48 H B Yes 150/15 NA 49 Yes Yes Yes Yes			75	Quad Flash - Diagonal - Color 1 & 2	в	Yes	150	N/A	N/A
40 77 Quad Fash-Dugoral-Color2 B Yes F0 NA 41 78 Quad Fash-Altenating-WigWag-Color1ther2 A Yes F0 NA 42 79 Quad Fash-Altenating-WigWag-Color1ther2 B Yes F0 NA 42 98 B Yes Yes F0 NA 43 B Yes Yes F0 NA NA 44 B Kata-Color1ther2 NA Yes F0 NA 44 B Kata Color1ther2 NA Yes Yes NA 44 B Yes Yes Yes Yes NA 44 B Yes Yes Yes Yes NA 45 Yes Kata-Color1ther2 Yes Yes Yes NA 45 Yes Yes Yes Yes Yes Yes Yes 46 Yes Yes Yes		39	76	Quad Flash - Diagonal - Color 2	A	Yes	150	N/A	N/A
41 78 Quad Flash-Altending-WgWug-Celot Then2 A Yes 160 NA 42 79 Quad Flash-Altending-WgWug-Celot Then2 B Yes 160 NA 42 980 Guad Flash-Altending-WgWug-Celot Then2 B Yes 160 NA 43 980 Reate-Celot 2 P Yes 170 NA 440 982 Reate-Celot Then2 P Yes 160/TS NA 440 983 Reate-Celot Then2 P Yes 160/TS NA 45 983 Reate-Celot Then2 P Yes 160/TS NA 45 983 Reate-Celot Then2 P Yes 160/TS NA 46 91 96 Yes 160/TS NA NA 46 91 Na Na Na NA NA 47 92 Na Na Na Na Na 48 93 Na Na		40	22	Quad Flash - Diagonal - Color 2	8	Yes	150	N/A	N/A
42 79 0ad Fath-Memding-WigWag-CotoT The 2 8 160 104 104 1 9 9 9 9 10 10 10 10 1 1 9 1 10 10 10 10 10 1 1 1 1 10 10 10 10 10 1 1 1 1 1 10 10 10 10 10 1 1 1 1 1 10	41	41	78	Quad Flash - Alternating - Wig Wag - Color 1 Then 2	A	Yes	150	N/A	N/A
($m, m)$	42	42	79	Quad Flash - Alternating - Wig Wag - Color 1 Then 2	в	Yes	150	N/A	N/A
43 81 81 Rate-Color2 Yes 70 NA 1 92 82 Rate-Color1Thm2 1	43		80	Rotate - Color 1		Yes	120	N/A	N/A
(m) (m) (m) (m) (m) (m) (m) (m)		43	81	Rotate - Color 2		Yes	120	N/A	N/A
(m) (m) (m) (m) (m) (m) (m) (m)			82	Rotate - Color 1 Then 2		Yes	120	N/A	N/A
44 84 64 84 Rade/Dad/Each-Coor2 Yes 150/75 NA 1 9 85 Rade/Dad/Each-Coor11fier2 1	44		83	Rotate / Quad Flash - Color 1		Yes	150 / 75	N/A	N/A
(m) <td></td> <td>44</td> <td>84</td> <td>Rotate / Quad Flash - Color 2</td> <td></td> <td>Yes</td> <td>150 / 75</td> <td>N/A</td> <td>N/A</td>		44	84	Rotate / Quad Flash - Color 2		Yes	150 / 75	N/A	N/A
Model B6 Wave Rauke - Cdor1 Yes Yo NA 45 87 Wave Rauke - Cdor2 Yes Yo NA 1 98 Wave Rauke - Cdor1Thin2 Yes Yo NA 1 98 Kander - Cdor1Thin2 Yes Yo NA 1 99 Random - Cobr1Thin2 Yes NA NA 46 91 Steady Burn - Cobr2 Yes NA NA			85	Rotate / Quad Flash - Color 1 Then 2		Yes	150 / 75	N/A	N/A
45 87 Wave Roade - Ca(-2 Yes 70 NA 1 98 Wave Roade - Ca(-1 Than 2 1 <td< td=""><td>45</td><td></td><td>86</td><td>Wave Rotate - Color 1</td><td></td><td>Yes</td><td>70</td><td>N/A</td><td>N/A</td></td<>	45		86	Wave Rotate - Color 1		Yes	70	N/A	N/A
B8 Wave Roade - Cdor 1 Then 2 Yes 70 NA 1 89 Random - Color 1 Then 2 N N N N 1 90 Steady Burn - Color 1 N N N N N 46 91 Steady Burn - Color 2 N N N N N		45	87	Wave Rotate - Color 2		Yes	70	N/A	N/A
B9 Random-Color1Thin2 No NA NA 90 Steady Burn-Color1 No NA NA 46 91 Steady Burn-Color2 No NA NA			88	Wave Rotate - Color 1 Then 2		Yes	70	N/A	N/A
90 Steady Burn-Color 1 No NA NA 46 91 Steady Burn-Color 2 No NA NA			89	Random - Color 1 Then 2		No	N/A	N/A	N/A
91 Steady Burn - Color 2 No NA NA	46		06	Steady Burn - Color 1		No	N/A	N/A	N/A
		46	91	Steady Burn - Color 2		No	N/A	N/A	N/A

* Applies to A, B, C & R ** Applies to A, B, & R

Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase, this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for sixty (60) months from the date of purchase.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLI-GENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERA-TION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

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