

Thank you for using our products.
INSTALLATION INSTRUCTIONS
SERIES RSS AND RSSP STROBE APPLIANCES
(WALL MOUNT VERSIONS)

Use this product according to this instruction manual. Please keep this instruction manual for future reference.

GENERAL:

Wheelock's Series RSS and RSSP Strobes can provide a non-synchronized strobe appliance when connected directly to a Fire Alarm Control Panel (FACP), or provide a synchronized strobe appliance when used in conjunction with a Sync Module (SM), Dual Sync Module (DSM) or Power Supply (PS-12/24-8). The Series RSS and RSSP Strobe Appliances are UL Listed under Standard 1971 (Signaling Devices for the Hearing Impaired) for indoor fire protection service. These Strobes are listed for **wall mount only**, with the backboxes specified in these instructions (See Mounting Options). RSS models have an integrated Strobe Mounting Plate (SMP) that can be mounted to a single-gang, double-gang, 4" backbox, 100mm European backbox or SHBB surface backbox. The strobes use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum visibility and reliability for effective visible signaling. All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring by the FACP.

NOTE: All **CAUTIONS** and **WARNINGS** are identified by the symbol ⚠. All warnings are printed in bold capital letters.

⚠ WARNING: THE RSS STROBE APPLIANCE IS A "FIRE ALARM DEVICE - DO NOT PAINT."

⚠ WARNING: READ THESE INSTRUCTIONS CAREFULLY. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

SPECIFICATIONS:

Table 1: Ratings Per UL 1971				
Model	Regulated Voltage VDC/VRMS	Voltage Range Limit VDC/VRMS	Strobe Candela (CD)	Mounting Options
RSS-2415W	24	16.0-33.0	15	A,B,C,D
RSSP-2415W	24	16.0-33.0	15	E,F
RSS-2430W	24	16.0-33.0	30	A,B,C,D
RSSP-2430W	24	16.0-33.0	30	E,F
RSS-2475W	24	16.0-33.0	75	A,B,C,D
RSSP-2475W	24	16.0-33.0	75	E,F
RSS-24110W	24	16.0-33.0	110	A,B,C,D
RSSP-24110W	24	16.0-33.0	110	E,F
RSS-1215W	12	8.0-17.5	15	A,B,C,D
RSSP-1215W	12	8.0-17.5	15	E,F

Table 1A.	
Audibles/Speakers for RSSP Strobe/Plate	
Product	Series
Multitone Appliances	AMT, MT, MT4
Motor Bells	MB-G6/G10
Speakers	ET-1010/1070/1080, ET70, E7025/7070, E70
Chimes	CH70

NOTES:

1. Strobes will produce 1 flash per second over the "Regulated Voltage" range.
2. All models are UL Listed for indoor use with a temperature range of +32°F to +120°F (0°C to +49°C) and maximum humidity of 85% RH.

NOTE: THE MAXIMUM WIRE IMPEDANCE BETWEEN STROBES SHALL NOT EXCEED 35 OHMS. THE MAXIMUM NUMBER OF STROBES ON A SINGLE NOTIFICATION APPLIANCE CIRCUIT SHALL NOT EXCEED 47.

⚠ WARNING: THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE LIMITS OF 16-33 VOLTS FOR 24V MODELS AND 8-17.5 VOLTS FOR 12V MODELS USING FILTERED (DC) OR UNFILTERED FULL-WAVE RECTIFIED (FWR). DO NOT APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATION.

⚠ WARNING: CHECK THE MINIMUM AND MAXIMUM OUTPUT OF THE POWER SUPPLY AND STANDBY BATTERY AND SUBTRACT THE VOLTAGE DROP FROM THE CIRCUIT WIRING RESISTANCE TO DETERMINE THE APPLIED VOLTAGE TO THE STROBES.

Table 2A: Current Ratings (AMPS) for 24VDC Models								
Rated Average Current								
Voltage	2415W		2430W		2475W		24110W	
	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS
16.0VDC	0.072	0.090	0.125	0.143	0.215	0.257	0.276	0.327
24.0VDC	0.053	0.079	0.085	0.113	0.140	0.200	0.169	0.256
33.0VDC	0.045	0.072	0.069	0.103	0.114	0.174	0.138	0.228
16.0VRMS	-----	0.105	-----	0.141	-----	0.262	-----	0.330
24.0VRMS	-----	0.076	-----	0.121	-----	0.211	-----	0.262
33.0VRMS	-----	0.070	-----	0.105	-----	0.185	-----	0.229
Rated Peak Current *								
Voltage	2415W		2430W		2475W		24110W	
16.0VDC	0.185		0.264		0.456		0.584	
24.0VDC	0.190		0.269		0.470		0.586	
33.0VDC	0.195		0.274		0.474		0.596	
16.0VRMS	0.182		0.259		0.458		0.586	
24.0VRMS	0.185		0.268		0.472		0.590	
33.0VRMS	0.197		0.286		0.492		0.596	
Rated Inrush Current **								
Voltage	2415W		2430W		2475W		24110W	
16.0VDC	0.110		0.110		0.110		0.110	
24.0VDC	0.165		0.165		0.165		0.165	
33.0VDC	0.230		0.230		0.230		0.230	
16.0VRMS	0.155		0.155		0.155		0.155	
24.0VRMS	0.235		0.235		0.235		0.235	
33.0VRMS	0.325		0.325		0.325		0.325	

Table 2B: Current Ratings (AMPS) for 12VDC Models			
Rated Average Current			
Voltage	1215W		
	MEAN	RMS	
8.0VDC	0.220	0.246	
12.0VDC	0.129	0.187	
17.5VDC	0.099	0.163	
8.0VRMS	-----	0.246	
12.0VRMS	-----	0.198	
17.5VRMS	-----	0.170	
Rated Peak Current *			
Voltage	1215W		
8.0VDC	0.410		
12.0VDC	0.426		
17.5VDC	0.438		
8.0VRMS	0.414		
12.0VRMS	0.426		
17.5VRMS	0.444		
Rated Inrush Current **			
Voltage	1215W		
8.0VDC	0.081		
12.0VDC	0.100		
17.5VDC	0.145		
8.0VRMS	0.098		
12.0VRMS	0.140		
17.5VRMS	0.190		

* Rated average current is measured using mean value. ** The time duration for the peak current is 100 microseconds.

*** The time duration for the inrush current is 4 milliseconds.

⚠ WARNING: MAKE SURE THAT THE TOTAL AVERAGE CURRENT, TOTAL PEAK CURRENT AND TOTAL INRUSH CURRENT REQUIRED BY ALL APPLIANCES THAT ARE CONNECTED TO THE SYSTEM'S PRIMARY AND SECONDARY POWER SOURCES, NAC CIRCUITS, SM, DSM SYNC MODULES OR PS-12/24-8 POWER SUPPLY DO NOT EXCEED THE POWER SOURCES' RATED CAPACITY OR THE CURRENT RATINGS OF ANY FUSES ON THE CIRCUITS TO WHICH THESE APPLIANCES ARE WIRED. OVERLOADING POWER SOURCES OR EXCEEDING FUSE RATINGS COULD RESULT IN LOSS OF POWER AND FAILURE TO ALERT OCCUPANTS DURING AN EMERGENCY, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

When calculating the total average, peak or inrush currents: Use Table 2A and 2B to determine the highest value of “Rated Average Current” for an individual strobe (across the expected operating voltage range of the strobe) to determine the highest value of “Rated Inrush Current” or “Rated Peak Current” (whichever is higher) of an individual strobe (across the expected voltage range of the strobe) then multiply the value by the total number of strobes; be sure to add the currents for any other appliances, including audible signaling appliances, powered by the same source and include any required safety factors.

If the inrush current or peak current exceeds the power supplies’ inrush capacity, the output voltage provided by the power supplies may drop below the listed voltage range of the appliances connected to the supply and the voltage may not recover in some types of power supplies. For example, an auxiliary power supply that lacks filtering at its output stage (either via lack of capacitance and/or lack of battery backup across the output) may exhibit this characteristic.

⚠ CAUTION: Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

LIGHT DISTRIBUTION:

<i>Table 3: Horizontal Plane</i>								
Horizontal Angle (in deg.)	15W		30W		75W		110W	
	UL Min.	Typ. 15W	UL Min.	Typ. 30W	UL Min.	Typ. 75W	UL Min.	Typ. 110W
0	15.0	24	30.0	46	75.0	103	110.0	149
5	13.5	24	27.0	46	67.5	103	99.0	152
10	13.5	24	27.0	45	67.5	104	99.0	151
15	13.5	24	27.0	46	67.5	100	99.0	151
20	13.5	23	27.0	43	67.5	101	99.0	148
25	13.5	23	27.0	43	67.5	98	99.0	140
30	11.3	21	22.5	41	56.3	94	82.5	135
35	11.3	20	22.5	40	56.3	89	82.5	129
40	11.3	19	22.5	39	56.3	83	82.5	124
45	11.3	18	22.5	41	56.3	81	82.5	133
50	8.3	18	16.5	36	41.3	77	60.5	121
55	6.8	12	13.5	27	33.8	60	49.5	85
60	6.0	11	12.0	30	30.0	59	44.0	95
65	5.3	13	10.5	35	26.3	71	38.5	113
70	5.3	17	10.5	29	26.3	73	38.5	81
75	4.5	13	9.0	22	22.5	53	33.0	72
80	4.5	8	9.0	17	22.5	35	33.0	50
85	3.8	7	7.5	15	18.8	30	27.5	38
90	3.8	6	7.5	15	18.8	30	27.5	43

<i>Table 3A: Vertical Plane</i>								
Vertical Angle (in deg.)	15W		30W		75W		110W	
	UL Min.	Typ. 15W	UL Min.	Typ. 30W	UL Min.	Typ. 75W	UL Min.	Typ. 110W
0	15.0	24	30.0	46	75.0	103	110.0	149
5	13.5	24	27.0	46	67.5	103	99.0	149
10	13.5	24	27.0	46	67.5	103	99.0	137
15	13.5	24	27.0	45	67.5	102	99.0	120
20	13.5	24	27.0	41	67.5	104	99.0	110
25	13.5	21	27.0	48	67.5	89	99.0	129
30	13.5	23	27.0	40	67.5	96	99.0	114
35	9.8	22	19.5	45	48.8	91	71.5	119
40	6.9	13	13.8	39	34.3	57	50.6	109
45	5.1	9	10.2	24	25.5	36	37.4	66
50	4.0	9	8.1	16	20.0	33	29.7	45
55	3.3	8	6.6	15	16.3	31	24.2	43
60	2.7	8	5.4	15	13.5	31	19.8	40
65	2.4	8	4.8	14	12.0	31	17.6	40
70	2.3	8	4.5	15	11.3	31	16.5	39
75	2.0	8	4.0	14	10.0	31	14.3	39
80	1.8	8	3.6	13	9.0	27	13.2	36
85	1.8	7	3.6	13	9.0	27	13.2	37
90	1.8	3	3.6	9	9.0	12	13.2	16

WIRING INFORMATION:

Figure 1: Wiring Diagrams

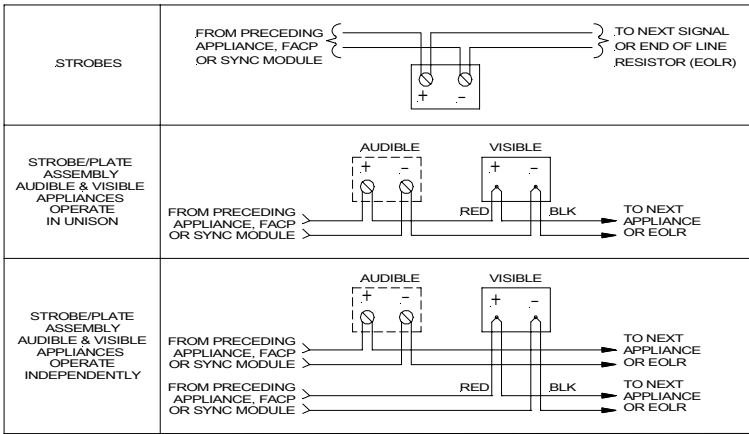
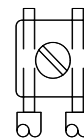


Figure 2.



- 1) All strobe appliances have in-out wiring terminals that accepts two #12 to 18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
- 2) Break all in-out wire runs on supervised circuits to assure integrity of circuit supervision as shown in Figure 2. Strobe/Plate assembly has two red leads and two black leads for in-out wiring. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the FACP during supervision.

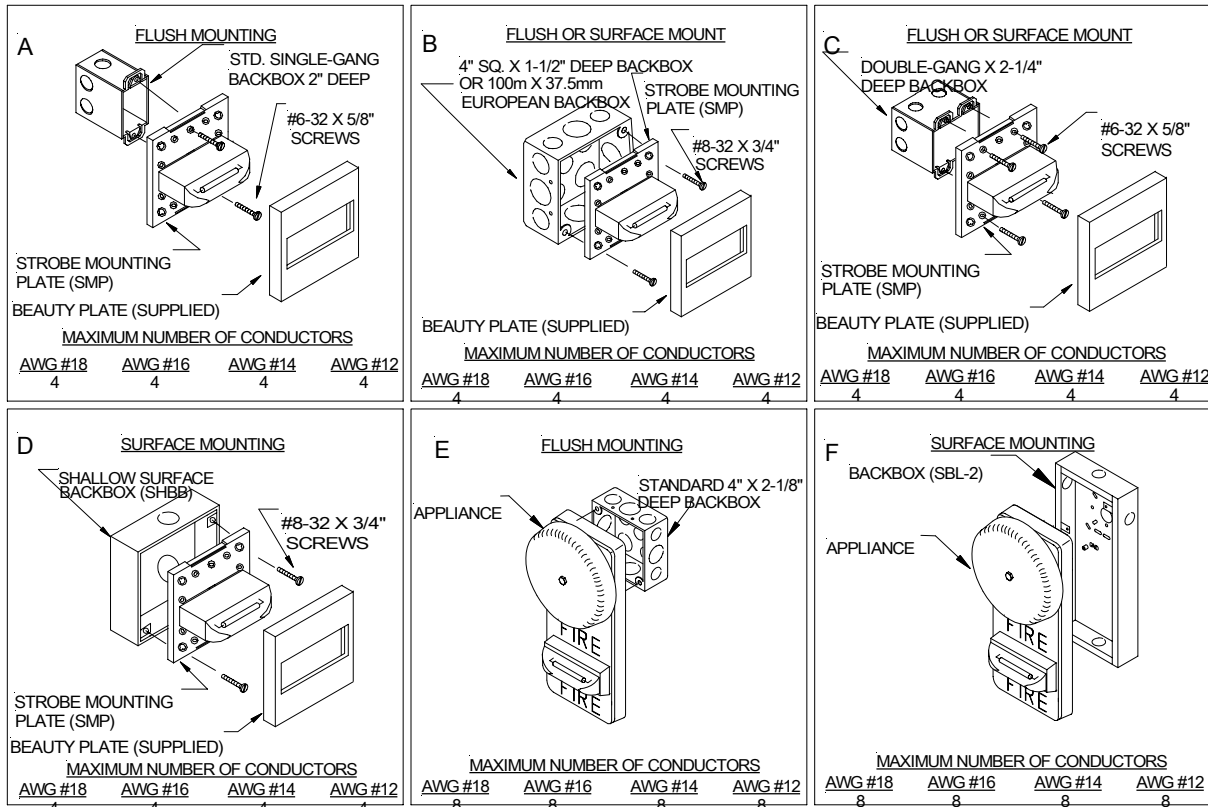
Refer to Sync Module instruction sheets SM (P83123), DSM (P83177) or PS-12/24-8 (P83862) for additional information.

MOUNTING OPTIONS:

⚠ WARNING: REMOVAL OF THE BLACK COVER AT THE BACK OF THE MOUNTING PLATE COULD RESULT IN SEVERE ELECTRIC SHOCK.

⚠ CAUTION: The following figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product.

Although the limits shown for each mounting option comply with the National Electrical Code (NEC), Wheelock recommends use of the largest backbox option shown and the use of approved stranded field wires, whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.



Figures E and F are shown with optional 6" bell. See Table 1A for other possible appliance combinations.

MOUNTING PROCEDURES:

⚠ CAUTION: Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or 3/4" conduit fittings are used.

1. RSS models have an integrated Strobe Mounting Plate (SMP).
2. The Strobe Mounting Plate (SMP) must be oriented correctly when it is mounted to the backbox. Turn the SMP so that the arrow above the words "Horizontal Strobe" points to the top side of the SMP.
3. RSS models can be flush mounted to a standard single-gang backbox (Figure A), 4" or 100mm backbox (Figure B) or double-gang backbox (Figure C). RSS models can also be surface mounted to a 4" or 100mm backbox (Figure B), double-gang backbox (Figure C) or the SHBB (Figure D). RSSP models can be flush mounted to a 4" backbox (Figure E) or surface mounted to a SBL-2 backbox (Figure F).
4. Mount the SMP first to the backbox. Next slide the Beauty Plate over the SMP until the 2 snaps of the Beauty Plate engage with the SMP.
5. The Beauty Plate can be removed from the strobe assembly once engaged. First, gently insert a screwdriver into one of the slots located on the top and bottom edges of the Beauty Plate. Second, gently pull away from the wall with the inserted screwdriver to disengage the snap. Third, repeat the first and second steps for the second slot. Finally, gently lift the Beauty Plate away from the SMP.
6. Mounting hardware for each mounting option is supplied.
7. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product.
8. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the signaling appliance.
9. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
10. Do not pass additional wires (used for other than the signaling appliance) through the backbox. Such additional wires could result in insufficient wiring space for the signaling appliance.

⚠ WARNING: WHEN INSTALLING STROBES IN AN OPEN OFFICE OR OTHER AREAS CONTAINING PARTITIONS OR OTHER VIEWING OBSTRUCTIONS, SPECIAL ATTENTION SHOULD BE GIVEN TO THE LOCATION OF THE STROBES SO THAT THEIR OPERATING EFFECT CAN BE SEEN BY ALL INTENDED VIEWERS, WITH THE INTENSITY, NUMBER, AND TYPE OF STROBES BEING SUFFICIENT TO MAKE SURE THAT THE INTENDED VIEWER IS ALERTED BY PROPER ILLUMINATION, REGARDLESS OF THE VIEWER'S ORIENTATION. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

RSS/RSSP-24110 strobe models are Listed for use in sleeping or non-sleeping areas when installed in accordance with appropriate NFPA Standards and the Authority Having Jurisdiction.

⚠ WARNING: INSTALLATION OF WHEELOCK 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS SHOULD BE WALL MOUNTED AT LEAST 24" BELOW THE CEILING AS FOLLOWS: (1) THE ON-AXIS (DIRECTLY IN FRONT OF LENS) LIGHT OUTPUT SHOULD BE DIRECTED AT THE EYE-LIDS OF THE SLEEPING PERSON, E.G. PILLOW END OF BED, BED HEAD; (2) NO PART OF THE BED SHALL BE MORE THAN SIXTEEN (16) FEET FROM THE STROBE NOTIFICATION APPLIANCE. INSTALLERS MUST ADVISE OWNERS AND OPERATORS OF BUILDINGS WITH SLEEPING OCCUPANTS, E.G. HOTELS AND MOTELS, TO WARN GUESTS, RESIDENTS AND EMPLOYEES TO NOT MOVE THE BED LOCATION TO A POSITION VIOLATING POINTS (1) AND (2) ABOVE OR SERIOUS INJURY AND/OR LOSS OF LIFE MAY OCCUR DURING A FIRE EMERGENCY.

⚠ WARNING: A SMALL POSSIBILITY EXISTS THAT THE USE OF MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW, UNDER CERTAIN CIRCUMSTANCES, MIGHT INDUCE A PHOTO-SENSITIVE RESPONSE IN PERSONS WITH EPILEPSY. STROBE REFLECTIONS IN A GLASS OR MIRRORED SURFACE MIGHT ALSO INDUCE SUCH A RESPONSE. TO MINIMIZE THIS POSSIBLE HAZARD, WHEELOCK STRONGLY RECOMMENDS THAT THE STROBES INSTALLED SHOULD NOT PRESENT A COMPOSITE FLASH RATE IN THE FIELD OF VIEW WHICH EXCEEDS FIVE (5) Hz AT THE OPERATING VOLTAGE OF THE STROBES. WHEELOCK ALSO STRONGLY RECOMMENDS THAT THE INTENSITY AND COMPOSITE FLASH RATE OF INSTALLED STROBES COMPLY WITH LEVELS ESTABLISHED BY APPLICABLE LAWS, STANDARDS, REGULATIONS, CODES AND GUIDELINES.

NOTE: NFPA 72/ANSI 117.1 conform to ADAAG Equivalent Facilitation Guidelines in using fewer, higher intensity strobes within the same protected area.

⚠ CAUTION: Check the installation instructions of the manufacturers of other equipment used in the system for any guidelines or restrictions on wiring and/or locating Notification Appliance Circuits (NAC) and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure immunity from electrical noise (e.g. audio crosstalk).

ANY MATERIAL EXTRAPOLATED FROM THIS DOCUMENT OR FROM WHEELOCK MANUALS OR OTHER DOCUMENTS DESCRIBING THE PRODUCT FOR USE IN PROMOTIONAL OR ADVERTISING CLAIMS, OR FOR ANY OTHER USE, INCLUDING DESCRIPTION OF THE PRODUCT'S APPLICATION, OPERATION, INSTALLATION AND TESTING IS USED AT THE SOLE RISK OF THE USER AND WHEELOCK WILL NOT HAVE ANY LIABILITY FOR SUCH USE.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) Reorient or relocate the receiving antenna, 2) Increase the separation between the equipment and receiver, 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, and 4) Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT: READ SEPARATE "GENERAL INFORMATION" SHEET FOR INFORMATION ON THE PLACEMENT, LIMITATIONS, INSTALLATION, FINAL CHECKOUT, AND PERIODIC TESTING OF NOTIFICATION APPLIANCES.

Limited Warranty

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with these instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), Underwriters' Laboratories of Canada (ULC), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ). Wheelock products when properly specified, applied, installed, operated, maintained and operationally tested as provided above are warranted against mechanical and electrical defects for a period of three years from date of manufacture (as determined by date code). Correction of defects by repair or replacement shall be at Wheelock's sole discretion and shall constitute fulfillment of all obligations under this warranty. THE FOREGOING LIMITED WARRANTY SHALL IMMEDIATELY TERMINATE IN THE EVENT ANY PART NOT FURNISHED BY WHEELOCK IS INSTALLED IN THE PRODUCT. THE FOREGOING LIMITED WARRANTY SPECIFICALLY EXCLUDES ANY SOFTWARE REQUIRED FOR THE OPERATION OF OR INCLUDED IN A PRODUCT. WHEELOCK MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESS, IMPLIED OR STATUTORY WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.

USERS ARE SOLELY RESPONSIBLE FOR DETERMINING WHETHER A PRODUCT IS SUITABLE FOR THE USER'S PURPOSES, OR WHETHER IT WILL ACHIEVE THE USER'S INTENDED RESULTS. THERE IS NO WARRANTY AGAINST DAMAGE RESULTING FROM MISAPPLICATION, IMPROPER SPECIFICATION, ABUSE, ACCIDENT OR OTHER OPERATING CONDITIONS BEYOND WHEELOCK'S CONTROL.

SOME WHEELOCK PRODUCTS CONTAIN SOFTWARE. WITH RESPECT TO THOSE PRODUCTS, WHEELOCK DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR-FREE OR THAT THE SOFTWARE WILL MEET ANY OTHER STANDARD OF PERFORMANCE, OR THAT THE FUNCTIONS OR PERFORMANCE OF THE SOFTWARE WILL MEET THE USER'S REQUIREMENTS. WHEELOCK SHALL NOT BE LIABLE FOR ANY DELAYS, BREAKDOWNS, INTERRUPTIONS, LOSS, DESTRUCTION, ALTERATION, OR OTHER PROBLEMS IN THE USE OF A PRODUCT ARISING OUT OF OR CAUSED BY THE SOFTWARE.

THE LIABILITY OF WHEELOCK ARISING OUT OF THE SUPPLYING OF A PRODUCT, OR ITS USE, WHETHER ON WARRANTIES, NEGLIGENCE, OR OTHERWISE, SHALL NOT IN ANY CASE EXCEED THE COST OF CORRECTING DEFECTS AS STATED IN THE LIMITED WARRANTY AND UPON EXPIRATION OF THE WARRANTY PERIOD ALL SUCH LIABILITY SHALL TERMINATE. WHEELOCK IS NOT LIABLE FOR LABOR COSTS INCURRED IN REMOVAL, REINSTALLATION OR REPAIR OF THE PRODUCT BY ANYONE OTHER THAN WHEELOCK OR FOR DAMAGE OF ANY TYPE WHATSOEVER, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFIT OR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE FOREGOING SHALL CONSTITUTE THE SOLE REMEDY OF THE PURCHASER AND THE EXCLUSIVE LIABILITY OF WHEELOCK.

IN NO CASE WILL WHEELOCK'S LIABILITY EXCEED THE PURCHASE PRICE PAID FOR A PRODUCT.

Limitation of Liability

WHEELOCK'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE AND BREACH OF WARRANTY, FOR ANY LOSS OR DAMAGE RESULTING FROM, ARISING OUT OF, OR CONNECTED WITH THIS CONTRACT, OR FROM THE MANUFACTURE, SALE, DELIVERY, RESALE, REPAIR OR USE OF ANY PRODUCT COVERED BY THIS ORDER SHALL BE LIMITED TO THE PRICE APPLICABLE TO THE PRODUCT OR PART THEREOF WHICH GIVES RISE TO THE CLAIM. WHEELOCK'S LIABILITY ON ANY CLAIM OF ANY KIND SHALL CEASE IMMEDIATELY UPON THE INSTALLATION IN THE PRODUCT OF ANY PART NOT FURNISHED BY WHEELOCK. IN NO EVENT SHALL WHEELOCK BE LIABLE FOR ANY CLAIM OF ANY KIND UNLESS IT IS PROVEN THAT OUR PRODUCT WAS A DIRECT CAUSE OF SUCH CLAIM. FURTHER, IN NO EVENT, INCLUDING IN THE CASE OF A CLAIM OF NEGLIGENCE, SHALL WHEELOCK BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE PRECEDING LIMITATION MAY NOT APPLY TO ALL PURCHASERS.