



GENTEX CORPORATION

UNIVERSAL CEILING AND WALL MOUNT SELECTABLE CANDELA STROBE AND HORN/STROBE

GS, GHS, GSA, GSB, GSG, GSR, GHSA, GHBS, GHSG, GHSR, GWS, GWHS, GWSA, GWSB, GWSG, GWSR, GWHS, GWHSB, GWHSG & GWHSR SERIES

ANSI/UL AND CAN/ULC COMPLIANT



ADDITIONAL CAN/ULC LISTED PRODUCT INFORMATION IS FOUND ON PAGE 4

MODELS

- GS*.....UNIVERSAL MOUNT SELECTABLE STROBE
- GHS*.....UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE
- GSA*.....UNIVERSAL MOUNT SELECTABLE STROBE, AMBER LENS
- GSB*.....UNIVERSAL MOUNT SELECTABLE STROBE, BLUE LENS
- GSG*.....UNIVERSAL MOUNT SELECTABLE STROBE, GREEN LENS
- GSR*.....UNIVERSAL MOUNT SELECTABLE STROBE, RED LENS
- GHSA*.....UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, AMBER LENS
- GHBS*.....UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, BLUE LENS
- GHSG*.....UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, GREEN LENS
- GHSR*.....UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, RED LENS
- GWS*.....OUTDOOR UNIVERSAL MOUNT SELECTABLE STROBE
- GWHS*.....OUTDOOR UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE
- GWSA*.....OUTDOOR UNIVERSAL MOUNT SELECTABLE STROBE, AMBER LENS
- GWSB*.....OUTDOOR UNIVERSAL MOUNT SELECTABLE STROBE, BLUE LENS
- GWSG*.....OUTDOOR UNIVERSAL MOUNT SELECTABLE STROBE, GREEN LENS
- GWSR*.....OUTDOOR UNIVERSAL MOUNT SELECTABLE STROBE, RED LENS
- GWHSA*.....OUTDOOR UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, AMBER LENS
- GWHSB*.....OUTDOOR UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, BLUE LENS
- GWHSG*.....OUTDOOR UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, GREEN LENS
- GWHSR*.....OUTDOOR UNIVERSAL MOUNT HORN WITH SELECTABLE STROBE, RED LENS

* Includes one or more of the following designators:
P (plain – no text), C (Chinese), R (red) or W (white)

I. INTRODUCTION

The Gentex Model GS, GHS, GSA, GSB, GSG, GSR, GHSA, GHBS, GHSG, GHSR, GWS, GWHS, GWSA, GWSB, GWSG, GWSR, GWHS, GWHSB, GWHSG & GWHSR strobe and horn/strobe is a high quality visible or audible/visible signaling appliance intended for ceiling or wall applications. The high intensity strobe utilizes several visible LEDs that generate a high-intensity flash visible from all angles. This appliance is intended to provide a visible or audible/visible notification signal depending on the model, for the purpose of life safety and property protection. This appliance is ideal for any occupancy that requires notification appliances per the applicable building or fire code or wherever dependable notification alarms are required. The GHS & GWHS series horn is listed in compliance with ANSI/UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, including Accessories. The GS, GHS, GWS & GWHS series strobes are listed in compliance with ANSI/UL 1638, Visible Signaling Devices for Fire Alarm and Signaling Systems, including Accessories.

II. LOCATION

This appliance is intended for use in fire alarm systems and is to be installed in accordance with this manual, the recommendation of the local authorities having jurisdiction, and other NFPA documents that provide standards on notification appliances for protective signaling systems. The GS, GHS, GSA, GSB, GSG, GSR, GHSA, GHBS, GHSG & GHSR is intended for indoor installations only. This appliance is not listed for outdoor or drip proof applications. Spacing for the GS, GHS, GSA, GSB, GSG, GSR, GHSA, GHBS, GHSG & GHSR shall be in accordance with NFPA 72 National Fire Alarm and Signaling Code. If a room configuration is not square, the room size that will entirely encompass the room or subdivide the room into multiple squares shall be used. The GWS, GWHS, GWSA, GWSB, GWSG, GWSR, GWHSA, GWHSB, GWHSG & GWHSR is listed for outdoor applications as well as indoor locations needing additional protection.

III. MOUNTING, ROUGH-IN BOX AND RUN WIRING

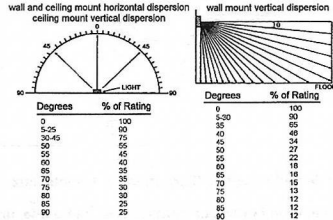
This unit is designed for mounting to most single gang boxes, 4" square outlet boxes, 2-gang masonry boxes, non-metallic 2-gang switch boxes, Gentex GBB Indoor Back Box or Gentex GWE Outdoor enclosure. Conduit entrance to boxes should be selected to insure sufficient wiring clearance.

1. Run a minimum 18 gauge insulated 2 or more conductor cable.
2. Mount a box for each remote signaling appliance. Screw bracket onto box. Insert signal into bracket and slide to the right firmly into the terminal block receptacle. Insert mounting screw as shown and tighten. Cover assembly with the plastic housing.

NOTICE: WIRING SHOULD BE CONNECTED TO MOUNTING BRACKET PRIOR TO MOUNTING SIGNAL. INCOMING POSITIVE POWER LEAD MUST BE BROKEN AND EACH LEAD IS TO BE INSERTED INTO EACH OF THE TOP TWO TERMINALS. A BARRIER IS PROVIDED TO PREVENT BOTH LEADS FROM BEING PLACED UNDER THE SAME TERMINAL.

GS, GSA, GHS & GHSA PRODUCT INFORMATION

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL 1638



Models	Color Lens
GS & GHS	Clear
GSA & GHSA	Amber

**Effective Intensity Requirements for Sleeping Areas

Visible Notification Appliance	
Distance from Ceiling to Top of Lens	Intensity
greater than or equal to 24"	110cd
less than 24"	177cd

CLEAR LENS STROBE CURRENT RATINGS

Use with GS & GWS Products

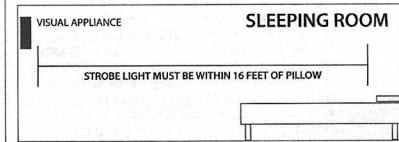
Candela	Regulated 24VDC Max. Operating Current (mA)
15	35
30	41
75	74
115	107
150	138
177	162

NOTICE: DC VOLTAGE RANGE LIMITS: 16-33V. THIS PRODUCT WAS ONLY TESTED TO THE STATED VOLTAGE RANGE(S); DO NOT APPLY 80% AND 110% OF THIS RANGE FOR SYSTEM OPERATION.

WARNING Strobe light can not be seen when objects such as doors, furniture or walls block strobe light.

NOTICE:

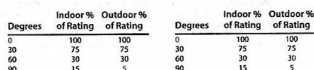
- THE VISUAL SIGNAL MUST BE IN THE DIRECT VIEWING AREA OF THE OCCUPANT IN ORDER TO BE SEEN.
- VISUAL SIGNALS FOR THE HEARING IMPAIRED ARE ONLY ONE METHOD OF ALERTING THE HEARING IMPAIRED. VISUAL SIGNALS MAY NOT BE THE PREFERRED METHOD FOR NOTIFYING ALL HEARING IMPAIRED INDIVIDUALS.
- THE STROBE LIGHT MUST BE SEEN BY THE SLEEPING PERSON. IF THE PERSON HAS HEAD TURNED OR OTHERWISE UNABLE TO BE ALERTED BY VISUAL, THE STROBE WILL NOT BE EFFECTIVE.



CAUTION:
Strobe light must be installed within 16 feet of the pillow when used in a sleeping area.

GSB, GSG, GSR, GHBS, GHSG, GHSR, GWS, GWHS, GWSA, GWSB, GWSG, GWSR, GWHSA, GWHSB, GWHSG & GWHSR PRODUCT INFORMATION

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL 1638



Models	Color Lens
GWS, GWHS	Clear
GWSA, GWHSA	Amber
GSB, GHBS, GWSB, GWHSB	Blue
GSG, GHSG, GWSG, GWHSG	Green
GSR, GHSR, GWSR, GWHSR	Red

AMBER, BLUE & GREEN | RED LENS STROBE CURRENT RATINGS

Use with GSA, GSB, GSG, GSR, GWSA, GWSB, GWSG & GWSR Products

Candela	Regulated 24VDC Max. Operating Current (mA)
15 10*	36
30 15*	54
60 30*	93
75 45*	112
95 60*	138
115 75*	162

* Candela lens strobe ratings with asterisk apply to Red lens only.

NOTICE: DC VOLTAGE RANGE LIMITS: 16-33V. THIS PRODUCT WAS ONLY TESTED TO THE STATED VOLTAGE RANGE(S); DO NOT APPLY 80% AND 110% OF THIS RANGE FOR SYSTEM OPERATION.

CLEAR LENS HORN/STROBE CURRENT & SOUND OUTPUT RATINGS

Sound Settings		Current Draw (mA)						Sound Output dBA
Horn Mode	Volume Setting	Regulated 24VDC Max. Operating Current UL Max Over Input Voltage Range of 16-33V						Minimum SPL at 10ft. Per ANSI/UL 464 Reverberant
		15	30	75	115	150	177	16-33VDC
Mechanical - Temporal 3	High	40	44	80	111	143	166	86
Mechanical - Temporal 3	Low	40	43	77	110	141	163	77
Mechanical - Temporal 4	High	40	46	78	111	144	175	86
Mechanical - Temporal 4	Low	38	45	77	111	143	175	77
Mechanical - Continuous	High	42	48	79	113	142	167	86
Mechanical - Continuous	Low	40	43	76	108	139	163	77
2400Hz - Temporal 3	High	40	47	81	116	145	168	88
2400Hz - Temporal 3	Low	40	45	78	112	142	164	78
2400Hz - Temporal 4	High	40	47	79	111	143	175	88
2400Hz - Temporal 4	Low	39	46	78	111	143	174	78
2400Hz - Continuous	High	45	54	84	117	146	170	88
2400Hz - Continuous	Low	42	48	77	111	141	163	78
Chime - Temporal 3	High	42	45	78	111	142	164	71**
Chime - Temporal 3	Low	33	42	76	109	141	162	64**
Chime - 5 Second	High	39	47	78	111	144	176	71**
Chime - 5 Second	Low	40	46	78	110	143	175	64**
Chime - Continuous	High	44	46	79	112	140	162	71**
Chime - Continuous	Low	36	43	77	110	139	162	64**
Whoop	High	61	70	104	136	165	189	82**
Whoop	Low	39	48	82	115	144	167	69**

AMBER, BLUE & GREEN | RED LENS HORN/STROBE CURRENT AND SOUND OUTPUT RATINGS

Sound Settings		Current Draw (mA)						Sound Output dBA
Horn Mode	Volume Setting	Regulated 24VDC Max. Operating Current UL Max Over Input Voltage Range of 16-33V						Minimum SPL at 10ft. Per ANSI/UL 464 Reverberant
		15 10*	30 15*	60 30*	75 45*	95 60*	115 75*	16-33VDC*
Mechanical - Temporal 3	High	43	63	103	121	144	167	86
Mechanical - Temporal 3	Low	41	60	100	119	142	164	77
Mechanical - Temporal 4	High	41	57	88	114	143	175	86
Mechanical - Temporal 4	Low	39	57	87	113	143	174	77
Mechanical - Continuous	High	49	69	105	125	146	171	86
Mechanical - Continuous	Low	43	61	101	119	141	165	77
2400Hz - Temporal 3	High	46	64	104	123	145	169	88
2400Hz - Temporal 3	Low	42	61	101	120	143	165	78
2400Hz - Temporal 4	High	41	58	88	114	143	175	88
2400Hz - Temporal 4	Low	39	57	87	113	143	172	78
2400Hz - Continuous	High	52	70	111	128	150	174	88
2400Hz - Continuous	Low	44	62	102	120	142	166	78
Chime - Temporal 3	High	44	62	101	120	143	166	71**
Chime - Temporal 3	Low	42	61	99	118	141	164	64**
Chime - 5 Second	High	41	56	86	113	142	172	71**
Chime - 5 Second	Low	40	60	86	112	141	173	64**
Chime - Continuous	High	46	64	99	119	141	164	71**
Chime - Continuous	Low	43	61	97	117	137	160	64**
Whoop	High	71	88	126	144	166	191	82**
Whoop	Low	47	65	103	121	143	168	69**

* Candela lens strobe ratings with asterisk apply to Red lens only.

NOTICE:

- THE THREE PULSE TEMPORAL PATTERN IS TO BE USED FOR EVACUATION USE ONLY.
- INDOOR UNITS HAVE BEEN TESTED TO 0°C, 49°C AND 93% HUMIDITY. OUTDOOR UNITS HAVE BEEN TESTED TO -40°C, 66°C AND 95% HUMIDITY.

** These settings are acceptable only for private mode fire alarm signaling use. Operating the horn in this mode at this voltage will result in not meeting the ANSI/UL 464 sound requirements for public mode fire protection service.

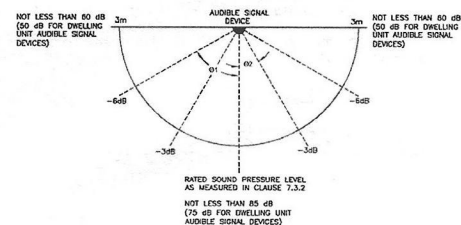
DIRECTIONAL SOUND CHARACTERISTIC PER UL 464 11TH EDITION SECTION 21

Directional Sound Characteristic: GHS Series			
Horizontal Axis		Vertical Axis	
Angle	OSPL (dBA)	Angle	OSPL (dBA)
0 (ref)	0 (ref)	0 (ref)	0 (ref)
+/- 41	-3	+/- 36	-3
+/- 65	-6	+/- 70	-6
+/- 90	-7.7	+/- 90	-6.3

❖ = No Measured Loss

Directional Sound Characteristic: GWHS Series			
Horizontal Axis		Vertical Axis	
Angle	OSPL (dBA)	Angle	OSPL (dBA)
0 (ref)	0 (ref)	0 (ref)	0 (ref)
+/- 35	-3	+/- 36	-3
+/- 69	-6	+/- 67	-6
+/- 90	-8.8	+/- 90	-7.0

❖ = No Measured Loss



IV. WIRING

Wiring for synchronized strobes and horns

Using this method you may:

- Use the Gentex GTSM synchronization protocol to provide synchronization of temporal 3 and temporal 4 tones and mute the horn, if required.

NOTICE:

- WHEN USING THE GENTEX GTSM SYNCHRONIZATION PROTOCOL, ALL CONNECTED HORN/STROBES TONE SELECT SWITCHES MUST BE SET TO A TEMPORAL SWITCH SETTING. CONTINUOUS SWITCH OPTIONS ARE NOT SUPPORTED WITH THE GTSM SYNCHRONIZATION PROTOCOL.
- THIS APPLIANCE IS NOT RECOMMENDED FOR USE ON CODED OR PULSING SIGNALING CIRCUITS. HOWEVER, USE OF THE GTSM CONTROL MODULE IS PERMITTED TO SYNCHRONIZE THE HORN.
- THE FOUR PULSE TEMPORAL PATTERN (TEMPORAL 4) CAN ONLY BE OBTAINED ON THIS PRODUCT WHEN USED IN CONJUNCTION WITH THE GENTEX GTSM SYNCHRONIZATION MODULE OR GTSM SYNCHRONIZATION PROTOCOL.
- SEE GTSM CONTROL MODULE MANUAL (550-0632, MANUAL ISSUE DATE 02-01-15) FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. GTSM MANUAL CAN BE OBTAINED AT FIREPROTECTION.GENTEX.COM/PRODUCTS OR CALL GENTEX CORPORATION AT 1-800-436-8391.

Conventional Method:

You may connect both the strobe and the horn/strobe directly from a source of rated power without the use of a control module. However, the horns and strobe lights will NOT be synchronized.

MAX. WIRE DISTANCE (IN FEET)

(PANEL VOLTAGE/ APPLIANCE MIN. VOLT)

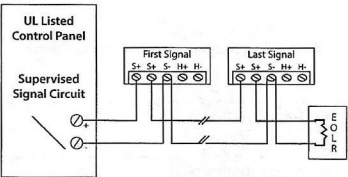
X

WIRE CONDUCTIVITY

TOTAL CURRENT DRAW

WIRE	CONDUCTIVITY
18 AWG	60
16 AWG	95
14 AWG	153
12 AWG	244

Includes wire to and from appliance. CAUTION: Applies only to regulated supplies. Assumes all appliances are at the end of wire run (worst case).

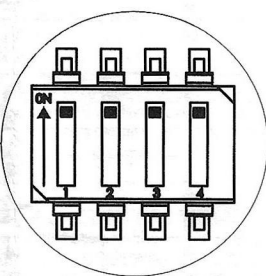
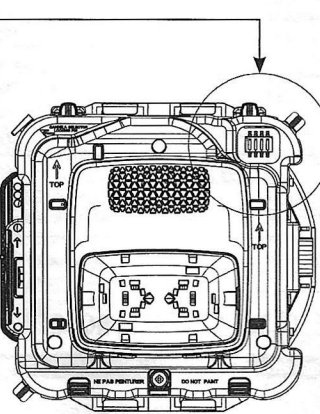


CAUTION: For all models in this product line, only the S+ and S- terminals are to be used for connection to the FACP. The H+ and H- terminals have no function on these models. DO NOT APPLY VOLTAGE TO THE H+ AND H- TERMINALS

Tone Select Switches	Switch Position		
	1	2	3
Mechanical - Temporal	ON	ON	ON
Mechanical - Continuous	OFF	ON	ON
2400Hz - Temporal	ON	OFF	ON
2400Hz - Continuous	OFF	OFF	ON
Chime - Temporal	ON	ON	OFF
Chime - Continuous	OFF	ON	OFF
Whoop	ON	OFF	OFF
Whoop	OFF	OFF	OFF

NOTICE:

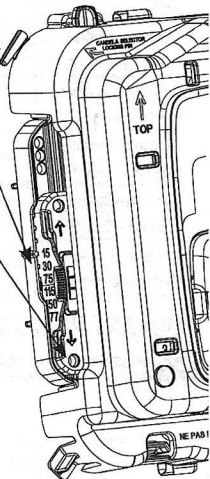
- SWITCH POSITION 4 ON = HIGH dBA
- SWITCH POSITION 4 OFF = LOW dBA
- Temporal switch positions default to Temporal 3 tone, when connected directly to a source of rated power without a GTSM control module.
- Use GTSM for synchronization and for additional Temporal 4 and mute features.
- Temporal 4 is not available for chime or whoop tone.



Break off pin

Candela selection slider switch. Depress center and slide switch to desired brightness level.

Break off pin and insert into hole at the bottom of the selector to lock candela setting. Signal must be removed from bracket and pin pushed forward from backside out of hole to change candela.



Gentex Checkmate® Instant Voltage Verification:

It is often necessary to confirm the voltage drop along a line of devices. The access holes are provided in the back of the terminal block to allow the voltage to be measured directly without removing the device. Typically this would be done at the end of the line to confirm design criteria. Measurements must be taken using the S+ and S- locations although access is provided to other locations.

NOTICE: Care should be taken to not short the test probes.

NOTICE: TO REMOVE BEZEL, SQUEEZE TOP AND BOTTOM OF BEZEL UNTIL BEZEL RELEASES FROM BRACKET.

3. SNAP COVER OVER ASSEMBLY

2. INSERT MOUNTING SCREW

1. SLIDE ONTO BRACKET

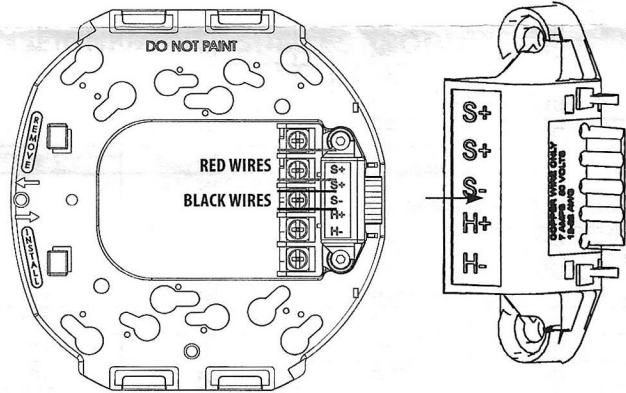
Gentex Super-Slide® Mounting Bracket:

Allows the installer to pre-wire the system, test for system supervision, remove the signal head until occupancy, switch out signals without changing mounting brackets and has locking edge connector for snap-in-place installation.

CAUTION: A jumper card is provided to test for correct wiring in the supervisory mode only. DO NOT pass alarm current through the jumper.

NOTICE:

- SEE GENTEX BACK BOX & ENCLOSURE MANUAL (550-0625, MANUAL ISSUE DATE 02-06-14) FOR ADDITIONAL MOUNTING INFORMATION FOR GBB INDOOR BACK BOX & GWE OUTDOOR ENCLOSURE. MANUAL CAN BE OBTAINED AT FIREPROTECTION.GENTEX.COM/PRODUCTS OR CALL GENTEX CORPORATION AT 1-800-436-8391.



V. CHECKOUT AND TROUBLESHOOTING

1. Supply power to the system control panel. The auxiliary signaling appliances in the system should not be activated.
2. If the signal is activated:
 - Check all smoke and fire detectors in the system to make sure they have not been activated.
 - Check all wiring connections to make sure the signal detection circuits are not reversed or shorted together. Check wire color codes and traces.
 - Verify that the jumpers and switches are properly set on both the control module and signal appliance.
3. To test the signal appliances, trip the auxiliary panel or activate the alarm circuit at the main control panel or activate one of the fire detection units in the system. All auxiliary signals should be activated.
4. An operational test on this product should be conducted in accordance with National Standards or at a minimum annually and more often if dictated by local and state codes or authorities having jurisdiction.

NOTICE: These testing procedures and troubleshooting instructions are generalized. Please refer to the system control panel operating instructions for proper operation of the panel and fire detection system.

SIGNALING APPLIANCE LIMITATION: Your horn and horn/strobe meet or exceed the current audibility requirements of ANSI/UL 464. However, if the appliance is located outside a bedroom it may not wake up a sound sleeper, especially if the room door is closed or only partially open.

⚠ WARNING

THIS APPLIANCE WILL NOT OPERATE WITHOUT ELECTRICAL POWER. AS FIRES FREQUENTLY CAUSE POWER INTERRUPTIONS, GENTEX SUGGESTS YOU DISCUSS FURTHER SAFEGUARDS WITH YOUR LOCAL FIRE PROTECTION SPECIALIST.

ADDITIONAL INSTRUCTIONS FOR VISIBLE AND/OR AUDIBLE SIGNALING APPLIANCES: CAN/ULC PRODUCT INFORMATION

This appliance is intended to provide a visible or audible/visible, depending on the model, notification signal for the purpose of life safety and property protection. This appliance is listed in compliance with CAN/ULC 525 and/or CAN/ULC 526. This appliance is intended for use in fire alarm systems and is to be installed in accordance with this manual, the National Building Code of Canada, CAN/ULC 524 and local codes that provide standards on notification appliances for protective signaling systems. Gentex recommends spacing notification appliances in compliance with CAN/ULC 524.

This unit is designed for mounting to most single gang boxes, 4" square outlet boxes, 2-gang masonry boxes or non-metallic 2-gang switch boxes. Conduit entrance to boxes should be selected to insure sufficient wiring clearance.

1. Wiring is to be in accordance with CSA C22.1 Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Sec. 32
2. Run a minimum 18 gauge insulated 2 or more conductor cable.
3. Mount a box for each remote signaling appliance. Screw bracket onto box. Insert signal into bracket and slide to the right firmly into the terminal block receptacle. Insert mounting screw as shown and tighten. Cover assembly with the plastic housing.

NOTICE:

- THE NATIONAL BUILDING CODE AND CAN/ULC 525 REQUIRES THAT ALL HORNS USED FOR BUILDING EVACUATION PRODUCE TEMPORAL CODED SIGNALS.
- INDOOR UNITS HAVE BEEN TESTED TO 0°C, 49°C AND 93% HUMIDITY. OUTDOOR UNITS HAVE BEEN TESTED TO -40°C, 66°C AND 95% HUMIDITY.

LIMITED WARRANTY

For a period of 36 months from the date of purchase or a maximum of 42 months from the date of manufacture (or as long as required by applicable law), Gentex warrants to you the original purchaser that the appliance described in this product information booklet will be free from defects in workmanship and materials under normal use and service.

This warranty does not apply and is void if damage or failure is caused by: accident, abuse, misuse, abnormal use, faulty installation, liquid contact, fire, earthquake or other external cause; operating the appliance outside Gentex's published guidelines; or service, alteration, maintenance or repairs performed by anyone other than Gentex. This warranty does not transfer to subsequent owners or purchasers of this appliance. This warranty also does not apply to: consumable parts, such as batteries; cosmetic damage, including but not limited to scratches or dents; defects caused by normal wear and tear or otherwise due to the normal aging of the appliance, or if any serial number has been removed or defaced from the appliance.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, STATUTORY, EXPRESS OR IMPLIED. GENTEX DISCLAIMS ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS TO THE EXTENT PERMITTED BY LAW. TO THE EXTENT SUCH WARRANTIES CANNOT BE DISCLAIMED, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW SUCH IMPLIED WARRANTIES SHALL APPLY ONLY FOR THE WARRANTY PERIOD SPECIFIED ABOVE. PLEASE NOTE THAT SOME STATES (COUNTRIES AND PROVINCES/TERRITORIES) DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY (OR CONDITION) LASTS. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, GENTEX WILL NOT BE LIABLE FOR ANY DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THE APPLIANCE, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF REVENUE, LOSS OF ACTUAL OR ANTICIPATED PROFITS, LOSS OF THE USE OF MONEY, LOSS OF BUSINESS, LOSS OF OPPORTUNITY, LOSS OF GOODWILL, AND LOSS OF REPUTATION. THE MAXIMUM LIABILITY OF GENTEX SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE APPLIANCE. PLEASE NOTE THAT SOME STATES (COUNTRIES AND PROVINCES/TERRITORIES) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

If a defect in workmanship or materials causes your appliance to become inoperable within the warranty period, you must return the appliance to Gentex postage prepaid to: Gentex Corporation, 9001 Riley Street, Building 10, Zeeland, MI 49464. You must prove to the satisfaction of Gentex the date of purchase of your appliance. You must also enclose a return address. Warranty service may only be performed by Gentex personnel at Gentex's facilities in Zeeland, Michigan. You must also pack the appliance to minimize the risk of it being damaged in transit. If we receive an appliance in a damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

If you submit a valid claim to Gentex during the warranty period, Gentex will, at its option, repair your appliance or furnish you with a new or rebuilt appliance without charge to you except for postage required to return the appliance to us. Gentex will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement appliance will be returned to you free of charge and it will be covered under the warranty for the balance of the warranty period, if any. When a product or part is replaced, any replacement item becomes your property and the replaced item becomes property of Gentex. For additional warranty and product information go to www.gentex.com.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE (OR BY COUNTRY OR PROVINCE). BY THIS WARRANTY, GENTEX DOES NOT LIMIT OR EXCLUDE YOUR RIGHTS EXCEPT AS ALLOWED BY LAW. TO FULLY UNDERSTAND YOUR RIGHTS, YOU SHOULD CONSULT THE LAWS OF YOUR COUNTRY, PROVINCE OR STATE.

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