

Audible Alarm

Instruction Manual

[TYPE:EWH]

We thank you for purchasing PATLITE Audible Alarm.

Before you start using the product, please read this instruction manual carefully to use the product correctly.

Please store this document in a safe place.

Be sure to read this document again when you are about to perform tasks such as maintenance and repair.

And if you have any questions, contact a branch office or the technical support printed on the last page.

Safety Precautions

The precautions which must be observed to prevent damage to the person using the product, to people around it, or to property are described in a manner shown below

■The seriousness of injury or damage caused by ignoring the indication and using the product in a wrong way is categorized with the indications below and descriptions are added to each of them



Warning The sections with this indication contain "items which could cause death or serious injury" if ignored.

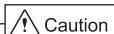


Caution The sections with this indication contain "items which could cause injury or property damage only" if ignored.

1. Cautions Which Must Be Observed for Safety Use



- Be sure to turn the power off before wiring or installing the product. Failure to do so may cause electric shock.
- Take care to perform wiring correctly. If the wiring is incorrect, internal circuit may be damaged by fire, and it may also be a cause of fire.
- As for the power source, be sure to use this product within the allowable range of voltage. Failure to do so may be a cause of fire or damage to the product.
- Do not disassemble or convert the product. It may cause a fire or electric shock. For repair or inspection of the internal parts of the product, contact a branch office or the technical support printed on the last page.
- Be sure to let specialists perform installation task which requires construction work. Failure to do so may cause electric shock, fire, or falling.



- To protect the power source and the internal circuit of the body, be sure to insert an external fuse.
- Be sure to use the product with the cover on the upper surface of the case fixed at the specified torque value. Entry of water or dust may cause malfunction.

Other Precautions

- Use the product in an environment where there are no high-intensity radiowaves or inductive noise. The horn may generate noise.
- Use the product in an environment where there is no corrosive gas. Failure to do so may cause malfunction.
- In case the product is used for security purposes in which safety is emphasized, be sure to perform daily maintenance, and use the product in combination with other devices to prepare for the occurrence of unlikely events such as malfunction or failure.
- Perform installation of each part by fastening them with the recommended torque value.
- Before starting work on the product, discharge static electricity from your body to prevent electrostatic breakdown. The static electricity can be discharged by touching another grounded metal part with bare hands.
- Do not use the product in a location where there is more vibration than the value defined in the specifications. It may cause damage to or falling of the body.
- In case the product is to be used outdoors, be sure to insulate the parts of cable connection. Failure to do so may cause malfunction or electric shock.

Failures caused by using the product in ways not observing the Warnings and Cautions, by disassembling or converting the product, or by natural disaster are not covered under warranty.

And do not use the product in ways other than the ways described in this document.

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded in EWH-A, C and D types outside of Japan; therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. EWH-E type is recommended for use outside of Japan as this model does not include copyrighted music or songs, and the permission is not required.

2. Model Indicating Format

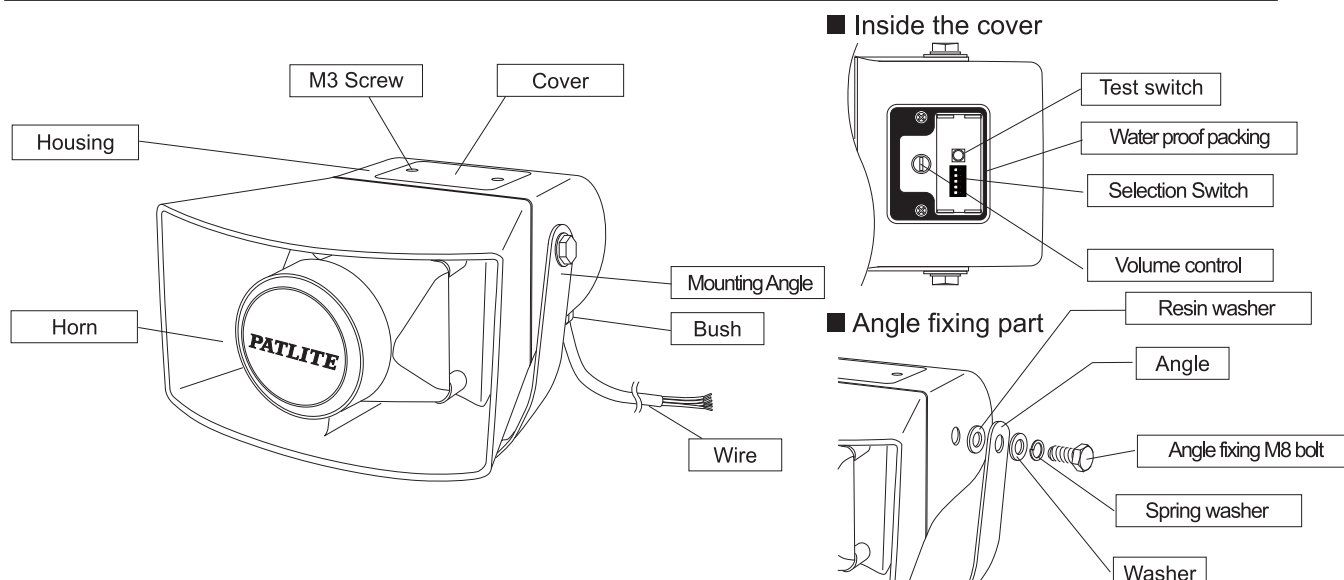
EWH - 24 A - J

■ Normal-rated voltage
24: 12-24V AC/DC
100: 100V AC
200: 200V AC

■ Sound Chart type
A : Type A
C : Type C
D : Type D
E : Type E

■ Color of body
J : Light gray
R : Red
Y : Yellow

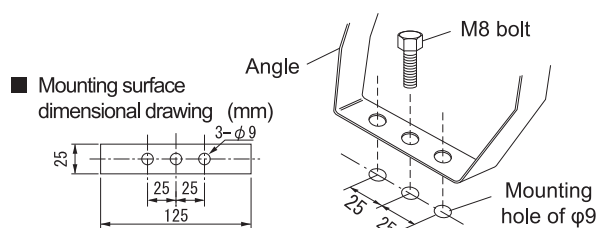
3. Part Names



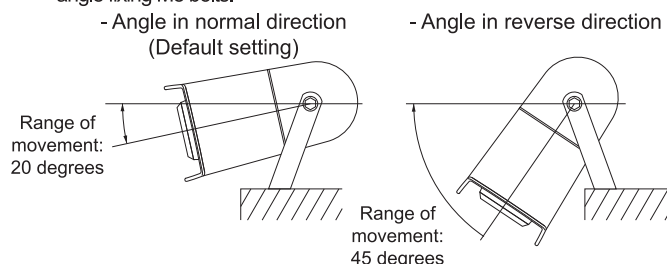
4. How to Install

- The angle fixing M8 bolt is tightened only temporarily. Be sure to tighten it more securely when installing it. (Recommended tightening torque value: 12.0N · m)

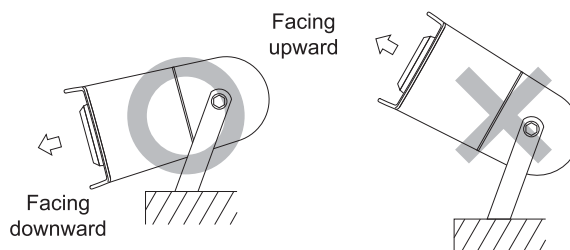
- When installing it, fix the angle with the angle fixing M8 bolt at three locations. In case the product is installed in a place where vibrations are especially strong, fix the body to prevent it from falling.



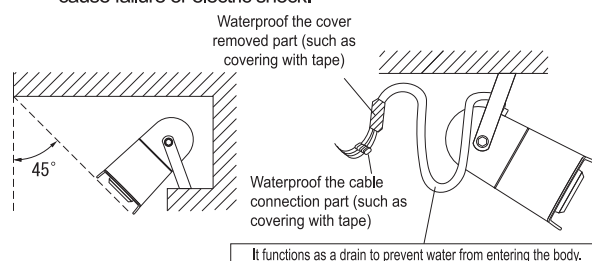
- In case the angle is installed with the back side coming to the front, the horn's range of movement widens in the lower direction.
- To change the orientation of the angle, remove the angle fixing M8 bolts, mount the angle in the opposite direction, and then retighten it with the angle fixing M8 bolts.



- Do not install the horn facing upward. Water or dust may enter, and cause failure.



- When the product is installed outside the building, install the product inside a line drawn 45 degrees from the edge of the eaves to protect the product from direct exposure to strong wind and rainfall. And as for the cables, be sure to waterproof the parts where the cover is removed or cables are connected, and connect the cable in slackened state. If water enters through a part where the cover is removed, it may cause failure or electric shock.



- *Be sure the cover on top of the case is fixed before using the product. If water or dust enters the product, it may cause failure.

⚠ Warning

- Be sure to turn the power off before installing the product. Failure to do so may cause electric shock.

⚠ Caution

- Ensure that the mounting surface has sufficient strength to support the weight of the product, and do not use the product in places where there is more vibration than the value defined in the specifications. Failure to do so may cause injury or damage to the product due to falling of the product.
- Be sure to tighten the angle fixing M8 bolt with the recommended tightening torque. Failure to do so may cause injury or damage to the product due to the product falling over.

Other Precautions

- When the product is to be used connected to a power source, install a switch near the body so that the power can easily be turned off for safety reasons.
- In case the product is installed in a place where strong vibrations occur, be sure to retighten the screws and bolts periodically.

5. How to perform Wiring

- For external contact of the signal line, use a no-voltage contact circuit such as a relay switch or open collector circuit (NPN type). As for the contact capacity, see the table below.
- There is no polarity of + or - for the AC type.

★ Voltage rating

EWB-24	12-24V AC/DC
EWB-100	100V AC
EWB-200	200V AC

★ Contact capacity

Withstand voltage	DC25V or higher
Current capacity	10mA or higher
Leakage current	0.1mA or lower
ON voltage (V _{sat})	1V or lower

★ Inrush current *1

EWB-24	42A or lower/1.5ms
EWB-100	1.5A or lower/2.0ms
EWB-200	2.0A or lower/300 μs

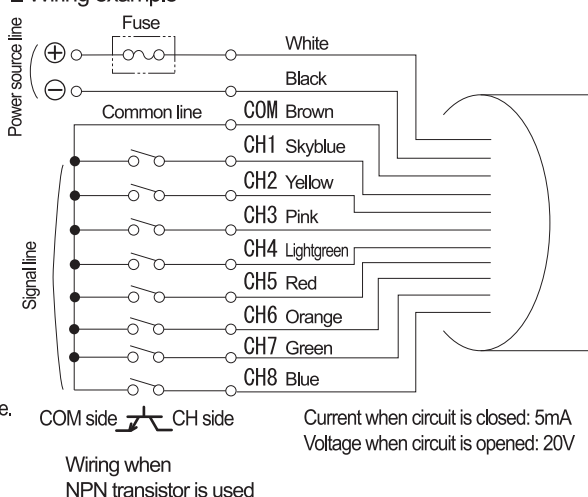
★ Fuse capacity *2

EWB-24	1A (Inrush current resistant)
EWB-100	1A (Normal)
EWB-200	1A (Normal)

*1 When the power is turned on with the maximum voltage in the allowed range.

*2 Use an inrush current resistant fuse for the EWB-24. A normal fuse may be burned out by the inrush current.

■ Wiring example



⚠ Warning

- Take care to perform the wiring correctly. Failure to do so may cause damage to the internal circuit by fire, and it may also cause fire.

⚠ Caution

- To protect the power source circuit and internal circuit of the body, be sure to install an external fuse.

Other Precautions

- Make the wiring to the signal line as short as possible as a preventive measure against noise. (Use shielded wire for wires used for relaying or extension)
If the signal line is placed alongside another high-voltage line, or placed in a location where it is easily influenced by inductive noise, it may cause malfunction.
- After the completion of wiring, insulate each tip of lead wire not used. Failure to do so may cause malfunction.
- In case a no-voltage contact circuit such as a relay switch is to be connected to the power source line, choose a relay switch or the like in consideration of the value of the inrush current. Insufficient capacity may cause adhesion to the contact or malfunction.
- In case the product is used in combination with another product produced by our company (such as the Cube Tower series or Signal Tower series), the signal line and the common line cannot be shared by them. (Since the voltages applied to the signal line are different, the circuit will be damaged.)
Be sure to use switches or relays in two circuits in order to separate the contacts.

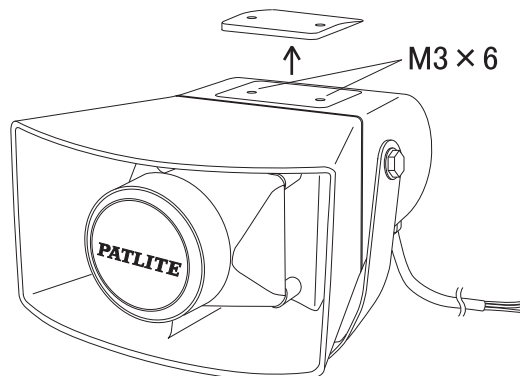
6. How to Operate

6-1. Removing and Fixing the Cover

When adjusting the volume or selecting the sound, remove the cover.

- Remove or fix the cover according to the procedure shown below.

- ① Remove the two mounting screws (M3 x 6).
- ② Remove the cover.
- ③ After completing the task, mount the parts removed according to procedure ① and ② in reverse order.
(Recommended torque value for the cover mounting screw: 0.6N · m)



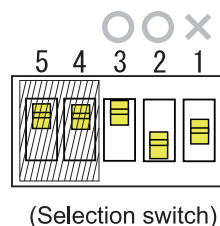
Other Precautions

- After completing the task, be sure to mount the cover. And be sure to operate this product with the cover being mounted.
If it is not mounted, water or dust may enter, and it may cause failure.
- Tighten the cover mounting screws with the recommended torque value. Failure to do so may cause failure due to submersion under water.

6-2. Selecting a Sound Group

A sound group from group A - H can be selected.

- A sound group is selected with the selection switch.
- Choose the sound group you want to play from the list of groups and channel settings, and set the selection switch accordingly.
- The numbers 4 and 5 on the selection switch are invalid.



Other Precautions

- Be sure to use a tool with a fine tip in selecting with the selection switch to move the knob to either end where ON or OFF is selected. When the knob is placed near the center as shown in the figure, the sound to be played may be uncertain.

● Sound Chart type A (Model:EWH-□A)

★ Sound list

1	Beep (slow intermittent horn)	5	Rapid Hi-Lo	9	Stutter (rapid intermittent horn) Bell (clear highpitched bell)	13	Fur Elise	17	London Bridge is Falling Down	21	Kuck kuck	25	Amaryllis	29	Jeux Interdits
2	Stutter (rapid intermittent horn)	6	Melody Chime	10	Synthesized Melody Chime	14	Maiden's Prayer	18	Holdiridia	22	Der Schmied im Walde	26	Mozart Symphony No. 40	30	Katuscha
3	Bell (clear highpitched bell)	7	Synthesized Piano	11	Chime	15	Minuet	19	Mary Had a Little Lamb	23	On the Bridge of Avignon	27	Itsy Bitsy Spider	31	Grandfather's Clock
4	Yelp (rapid siren)	8	Synthesized Bell	12	Call sign	16	Annie Laurie	20	Camptown Races	24	Daydream Believer	28	Ich bin ein Musikante	32	Ave Maria

Author 13:BEETHOVEN VAN LUDWIG 14:BADARZEWKA BARANOWSKA TEKLA 15:BACH JOHANN SEBASTIAN 16:SCOTT LADY JOHN DOUGLAS 17-18-21-25-28-29:TRADITIONAL 19-27:PD
20:FOSTER STEPHEN COLLINS 22:SONG authorized by the Ministry of Education 23:WERNER HEINRICH (DE) 24:STEWART JOHN C26:MOZART WOLFGANG AMADEUS 30:BLANTER MATVEJ ISAAKOVICH
31:WORK HENRY CLAY 32:SCHUBERT FRANZ

※ 24,30
T-0680152

★ Sound groups (Factory default setting: Group A)

Group	A	B	C	D	E	F	G	H
CH1	Fur Elise	Mary Had a Little Lamb	Amaryllis	Grandfather's Clock	Jeux Interdits	Mary had a little Lamb	Beep (slow intermittent horn)	Binary mode sound 1-32 can be selected by using CH1-CH6
CH2	Maiden's Prayer	Camptown Races	Mozart Symphony No. 40	Ave Maria	Camptown Races	Mozart Symphony No. 40	Stutter (rapid intermittent horn)	
CH3	Minuet	Kuck kuck	Itsy Bitsy Spider	Daydream Believer	Minuet	Holdiridia	Bell (clear highpitched bell)	
CH4	Annie Laurie	Der Schmied im Walde	Ich bin ein Musikante	London Bridge is Falling Down	Ave Maria	Daydream Believer	Yelp (rapid siren)	
CH5	London Bridge is Falling Down	On the Bridge of Avignon	Jeux Interdits	Bell (clear highpitched bell)	Stutter (rapid intermittent horn) Bell (clear highpitched bell)	Rapid Hi-Lo	Rapid Hi-Lo	
CH6	Holdiridia	Daydream Believer	Katuscha	Yelp (rapid siren)	Synthesized Melody Chime	Melody Chime	Melody Chime	
CH7	Chime	Chime	Chime	Synthesized Piano	Synthesized Piano	Synthesized Piano	Synthesized Piano	
CH8	Call sign	Call sign	Call sign	Synthesized Bell	Synthesized Bell	Synthesized Bell	Synthesized Bell	

● Sound Chart type C (Model:EWH-□C)

★ Sound list

1	Beep (slow intermittent horn)	5	Rapid Hi-Lo	9	Stutter (rapid intermittent horn) Bell (clear highpitched bell)	13	Can't Take My Eyes off of You	17	Amairono Kamino Otome	21	Uchuusenkan Yamato	25	I Don't Want to Miss a Thing	29	Gattsudaze
2	Stutter (rapid intermittent horn)	6	Melody Chime	10	Synthesized Melody Chime	14	Top of the World	18	Les Champs-Elysees	22	Oshiete	26	Yozorano Mukou	30	Odoru Ponpokorin
3	Bell (clear highpitched bell)	7	Synthesized Piano	11	Chime	15	The Entertainer	19	Canon	23	Makenaide	27	Aiwa Katsu	31	Imasugu Kisu Mi
4	Yelp (rapid siren)	8	Synthesized Bell	12	Call sign	16	Amazing Grace	20	Rara Sanshain	24	Gonna Fly Now (Theme for "Rocky")	28	TRUTH	32	Haruyo Koi

Author 11:New Funky Sueyoshi 12:Yumi Matsutoya 13:Ami Ozaki 14:Tetsuji Hayashi 15:Tatsuro Yamashita 16:Kazumasa Oda 17:Yumi Matsutoya 18:Maria Takeuchi 19:HILL MILDRED J
21:Hiroshi Miyagawa 22:Takao Watanabe 23:30 Tetsuro Oda 24:CONTI BILL 25:WARREN DIANE EVE 26:Yuka Kawamura 27:KAN 28:Masahiro Andoh 29:Tatsuta Matsumoto
31:Tatsuya Hirakawa 32:Yumi Matsutoya

※ 13~14
17~18
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T-0710139

★ Sound groups (Factory default setting: Group A)

Group	A	B	C	D	E	F	G	H
CH1	Can't Take My Eyes off of You	Canon	I Don't Want to Miss a Thing	Imasugu Kisu Mi	Amairono Kamino Otome	Beep (slow intermittent horn)	Odoru Ponpokorin	Binary mode sound 1-32 can be selected by using CH1-CH6
CH2	TOP OF THE WORLD	Rara Sanshain	Yozorano Mukou	Haruyo Koi	Makenaide	Stutter (rapid intermittent horn) Stutter (rapid intermittent horn) Bell (clear highpitched bell)	Aiwa Katsu	
CH3	The Entertainer	Uchuusenkan Yamato	Aiwa Katsu	Uchuusenkan Yamato	Gattsudaze	Synthesized Melody Chime	TRUTH	
CH4	Amazing Grace	Oshiete	TRUTH	Rara Sanshain	Top of the World	Synthesized Piano	Les Champs-Elysees	
CH5	Amairono Kamino Otome	Makenaide	Gattsudaze	Can't Take My Eyes off of You	Canon	Synthesized Piano	Amazing Grace	
CH6	Les Champs-Elysees	Gonna Fly Now (Theme for "Rocky")	Odoru Ponpokorin	Gonna Fly Now (Theme for "Rocky")	Haruyo Koi	Synthesized Bell	Yozorano Mukou	
CH7	Chime	Chime	Chime	Chime	Chime	Chime	Chime	
CH8	Call sign	Call sign	Call sign	Call sign	Call sign	Call sign	Call sign	

● Sound Chart type D (Model:EWH-□D)

★ Sound list

1	Beep (slow intermittent horn)	5	Rapid Hi-Lo	9	Chime	13	Oribiao Kikinagara	17	Saafu Tengoku Sukii Tengoku	21	I've been working on the Railroad	25	Wiegenlied	29	Yellow Rose of Texas
2	Stutter (rapid intermittent horn)	6	Melody Chime	10	Call sign	14	A September	18	Iro Howaitoburendo	22	Bear Song	26	Rudolph the Red-nosed Reindeer	30	Yankee Doodle
3	Bell (clear highpitched bell)	7	Synthesized Piano	11	Runner	15	Doyoubino Koibito	19	Happy Birthday	23	Toys Go Cha Cha Cha	27	She Wore a Yellow Ribbon	31	When the Saints Go Marching In
4	Yelp (rapid siren)	8	Synthesized Bell	12	Mamotte Agetai	16	Akino Kehai	20	Hi Ho	24	Konnako Irukana	28	Oh My Darling Clementine	32	Londonderry Air

Author 11:New Funky Sueyoshi 12:Yumi Matsutoya 13:Ami Ozaki 14:Tetsuji Hayashi 15:Tatsuro Yamashita 16:Kazumasa Oda 17:Yumi Matsutoya 18:Maria Takeuchi 19:HILL MILDRED J
20:CHURCHILL FRANK E 21-22-27-29-30-31-32:TRADITIONAL 23:Nobuyoshi Koshibe 24:Takeshi Shibuya 25:SCHUBERT FRANZ 26:MARKS JOHN D 28:American folk song

※ 13~18
26
T-0710140

★ Sound groups (Factory default setting: Group A)

Group	A	B	C	D	E	F	G	H
CH1	Runner	Happy Birthday	She Wore a Yellow Ribbon	Yellow Rose of Texas	Runner	Saafu Tengoku Sukii Tengoku	Doyoubino Koibito	Binary mode sound 1-32 can be selected by using CH1-CH6
CH2	Mamotte Agetai	Hi Ho	Oh My Darling Clementine	Yankee Doodle	Iro Howaitoburendo	Konnako Irukana	I've been working on the Railroad	
CH3	Oribiao Kikinagara	I've been working on the Railroad	Yellow Rose of Texas	When the Saints Go Marching In	Wiegenlied	Oribiao Kikinagara	She Wore a Yellow Ribbon	
CH4	A September	Bear Song	Yankee Doodle	Londonderry Air	Hi Ho	Rudolph the Red-nosed Reindeer	Yankee Doodle	
CH5	Doyoubino Koibito	Toys Go Cha Cha Cha	When the Saints Go Marching In	Beep (slow intermittent horn)	Bell (clear highpitched bell)	Rapid Hi-Lo	Synthesized Piano	
CH6	Akino Kehai	Konnako Irukana	Londonderry Air	Stutter (rapid intermittent horn)	Yelp (rapid siren)	Melody Chime	Synthesized Bell	
CH7	Saafu Tengoku Sukii Tengoku	Wiegenlied	Runner	Chime	Chime	Chime	Chime	
CH8	Iro Howaitoburendo	Rudolph the Red-nosed Reindeer	Mamotte Agetai	Call sign	Call sign	Call sign	Call sign	

● Sound Chart type E (Model:EWH-□E)

★ Sound list

1	Beep (slow intermittent horn)	5	Rapid Hi-Lo	9	Stutter (rapid intermittent horn) Bell (clear highpitched bell)	13	Train Ride	17	Inverted Reveille	21	Alarm Clock	25	Annie Laurie	29	Amaryllis
2	Stutter (rapid intermittent horn)	6	Melody Chime	10	Synthesized Melody Chime	14	Galloping Hi-Lo	18	Garactic Motor	22	Ringin' Hi-Lo	26	London bridge is falling down	30	Symphony No.40
3	Bell (clear highpitched bell)	7	Synthesized Piano	11	Chime	15	Alien Chatter	19	Ringin' Phone	23	Fur Elise	27	Mary Had a Little Lamb	31	Ave Maria
4	Yelp (rapid siren)	8	Synthesized Bell	12	Call sign	16	Falling Crystals	20	Two Tone	24	Minuet	28	The camptown Races	32	Grandfather's Clock

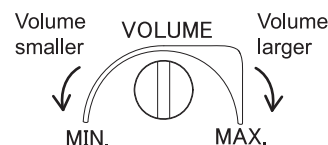
★ Sound groups (Factory default setting: Group A)

Group	A	B	C	D	E	F	G	H
CH1	Fur Elise	Minuet	Fur Elise	Alien Chatter	Train Ride	Rapid Hi-Lo	Beep (slow intermittent horn)	Binary mode sound 1-32 can be selected by using CH1-CH6
CH2	Minuet	Annie Laurie	London bridge is falling down	Falling Crystals	Galloping Hi-Lo	Chime	Stutter (rapid intermittent horn)	
CH3	Annie Laurie	Amaryllis	Mary had a Little Lamb	Inverted Reveille	Inverted Reveille	Stutter (rapid intermittent horn)	Bell (clear highpitched bell)	
CH4	London bridge is falling down	Symphony No.40	The camptown Races	Garactic Motor	Garactic Motor	Ringin' Phone	Yelp (rapid siren)	
CH5	Mary had a little lamb	Grandfather's Clock	Amaryllis	Ringin' Phone	Alarm Clock	Stutter (rapid intermittent horn) Bell (clear highpitched bell)	Rapid Hi-Lo	
CH6	The camptown Races	Ave Maria	Grandfather's Clock	Two Tone	Ringin' Hi-Lo	Synthesized Melody Chime	Melody Chime	
CH7	Chime	Chime	Chime	Alarm Clock	Synthesized Paino	Synthesized Paino	Synthesized Paino	
CH8	call sign	call sign	call sign	Ringin' Hi-Lo	Synthesized Bell	Synthesized Bell	Synthesized Bell	

6-3.Adjusting the Sound Volume

The sound volume can be adjusted using the volume control.

- Use a flat-blade screwdriver with the blade thickness of 1.0mm or thinner for turning the volume control.



Other Precautions

- Turn the volume control lightly. It may be damaged if a torque of 0.1N · m or more is applied. And do not give it a shock or press it down. Doing so may cause failure.

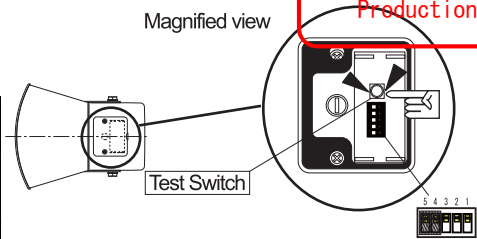
Information

- When the volume is set to high, the sound may be distorted in some sounds.
- In some cases the volume may not be zero even if the volume control is set to the minimum.

6-4. Test Switch

When the test switch is pressed down, the test sound is played. Use it when confirming the operation or adjusting the volume. See the table below for the test sound to be played.

Model	5 4 3 2 1 off & on	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1
EWB-CA	Fur Elise	Mary Had a Little Lamb	Amaryllis	Grandfather's Clock	Jeux Interdits	Mary Had a Little Lamb	Beep (slow intermittent horn)	Beep (slow intermittent horn)
EWB-CC	Can't Take My Eyes off of You	Canon	I Don't Want to Miss a Thing	Imasugu Kisu Mi	Amairono Kamino Otome	Beep (slow intermittent horn)	Odoru Ponpokorin	Beep (slow intermittent horn)
EWB-CD	Runner	Happy Birthday	She Wore a Yellow Ribbon	Yellow Rose of Texas	Runner	Saafu Tengoku Suki Tengoku	Doyoubino Koibito	Beep (slow intermittent horn)
EWB-CE	Fur Elise	Minuet	Fur Elise	Alien Chatter	Train Ride	Rapid Hi-Lo	Beep (slow intermittent horn)	Beep (slow intermittent horn)



Other Precautions

- Press down the switch lightly.
And do not give it a shock or hold it down. Doing so may cause failure.

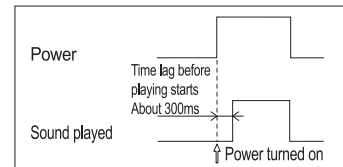
6-5. How to Start Up

6-5-1. Power Turning On Method

This is a method of playing a sound by turning the power on.

- The sound is played by turning on the power when a signal line is being connected.
- For the method of connecting a signal line, see Section 6-6. How to Select a Sound.
- A time lag of about 300ms occurs before playing a sound after turning on the power.

Timing chart for the power turning on method

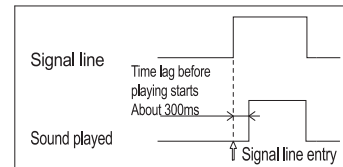


6-5-2. Signal Line Start Entry Method

This is a method of playing a sound by connecting a signal line.

- The sound is played while a signal line is connected when the power is being turned on.
- For the method of connecting a signal line, see Section 6-6. How to Select a Sound.
- A time lag of about 300ms occurs before playing a sound after connecting a signal line.

Timing chart for the signal line start entry method



6-6. How to Select a Sound

6-6-1. Bit Entry (Selection switch: Sound group A - G)

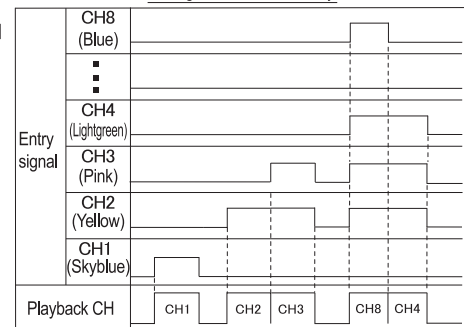
When the common line (COM Brown) and a signal line (CH1 - CH8) are short circuited after selecting a sound group with the selection switch, a sound is played.

- See Section 6-2. Selecting a Sound Group for the sound group.
- See the table on the right for the timing chart of the bit entry.
- If two or more signal lines are connected simultaneously, the sound with a higher channel number is given priority, and it is played.

<Priority order for the channels>

CH8 Blue > CH7 Green > CH6 Orange > CH5 Red >
CH4 Lightgreen > CH3 Pink > CH2 Yellow > CH1 Skyblue

Timing chart for the bit entry

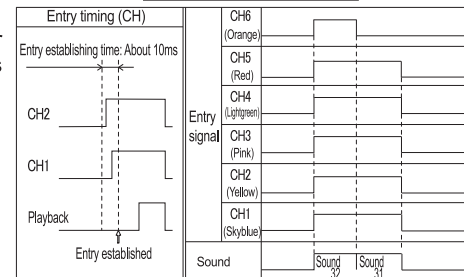


6-6-2. Binary Entry (Selection switch: Sound group H)

When the common line (COM Brown) and the selected signal line are short circuited after selecting an entry contact from CH1 - CH6 corresponding to sound 1 - 32, a sound is played.

- See the code table below for the binary entry contact for each sound.
- Establish the binary entry within 10ms.
- See the table on the right for the timing chart of the binary entry.

Timing chart for the binary entry



Code table for binary entry (Example: Type D)

Sound	Entry contact								Sound	Entry contact							
	CH1 Sky blue	CH2 Yellow	CH4 Pink	CH4 Light green	CH5 Red	CH6 Orange	CH7 Green	CH8 Blue		CH1 Sky blue	CH2 Yellow	CH4 Pink	CH4 Light green	CH5 Red	CH6 Orange	CH7 Green	CH8 Blue
1 Beep (slow intermittent horn)	1	0	0	0	0	0			17 Saafu Tengoku Sukii Tengoku	1	0	0	0	1	0		
2 Stutter (rapid intermittent horn)	0	1	0	0	0	0			18 Iro Howaitoburendo	0	1	0	0	1	0		
3 Bell (clear highpitched bell)	1	1	0	0	0	0			19 Happy Birthday	1	1	0	0	1	0		
4 Yelp (rapid siren)	0	0	1	0	0	0			20 Hi Ho	0	0	1	0	1	0		
5 Rapid Hi-Lo	1	0	1	0	0	0			21 I've been working on the Railroad	1	0	1	0	1	0		
6 Melody Chime	0	1	1	0	0	0			22 Bear Song	0	1	1	0	1	0		
7 Synthesized Piano	1	1	1	0	0	0			23 Toys Go Cha Cha Cha	1	1	1	0	1	0		
8 Synthesized Bell	0	0	0	1	0	0			24 Konnako Irukana	0	0	0	1	1	0		
9 Chime	1	0	0	1	0	0			25 Wiegenlied	1	0	0	1	1	0		
10 Call sign	0	1	0	1	0	0			26 Rudolph the Red-nosed Reindeer	0	1	0	1	1	0		
11 Runner	1	1	0	1	0	0			27 She Wore a Yellow Ribbon	1	1	0	1	1	0		
12 Mamotte Agetai	0	0	1	1	0	0			28 Oh My Darling Clementine	0	0	1	1	1	0		
13 Oribiao Kikinagara	1	0	1	1	0	0			29 Yellow Rose of Texas	1	0	1	1	1	0		
14 A September	0	1	1	1	0	0			30 Yankee Doodle	0	1	1	1	1	0		
15 Doyoubino Koibito	1	1	1	1	0	0			31 When the Saints Go Marching In	1	1	1	1	1	0		
16 Akino Kehai	0	0	0	0	1	0			32 Londonderry Air	0	0	0	0	0	1		

* The "1" in the table refers to the short-circuit between the signal line and the common line.

* In case of an entry contact not contained in the table, "1. Beep (slow intermittent horn)" will be played.

Other Precautions

- A popping noise may be generated when the power is turned on or off. But this is normal.
- When multiple units are used in combination, there may be a difference in playing speed even if the power is turned on or a signal line is connected at the same time.

7.Before You Request a Repair

Symptom	Points to be checked	Coping strategies
No sound is played	Is the power supplied?	Confirm the wiring and the power supply voltage.
	Are the common line and the signal line short-circuited correctly?	Confirm the wiring.
	Is the volume control not set to the minimum?	Adjust the volume.
A sound of a different channel is played	Are the common line and the signal line short-circuited correctly?	Confirm the wiring.
	Is the selection made correctly with the selection switch?	Confirm the selection switch.

※If the product does not operate correctly even after it is properly installed and handled, contact a branch office or the technical support printed on the last page.

8.Specifications

Model	EWB-24□	EWB-100□	EWB-200□
Rated voltage	12-24V AC/DC	100V AC	200V AC
Operating voltage range	9V~35V DC 8V~26V AC	90V ~ 132V AC	50/60Hz 180V ~ 260V AC 50/60Hz
Power consumption	Max. 8W	Max. 11W	Max. 11W
Volume	Max. 105dB (at 1m) Adjustable with volume control Volume may be less, depending on the sounds and operation conditions.		
Input system	Bit input / Binary input (Changeover)		
Input signal holding time	Continuous		
Audio output lag time	Approx. 300msec		
Selectable channels	Bit input : 8 Channels Binary input : 32 Channels		
Operating temp. range	-20 ~ 50°C		
Operating humidity	Max. 85% RH (No condensation)		
Mounting direction	Indoor : Normal,Reverse and Lateral direction are possible Outdoor : Normal direction only (However,the horn opening should be downward more than the horizontal.)		
Protection Rating	IP 53		
Vibration resistance	45m/s ² (JIS C0911-1984)		
Mass	1.3kg±10%	1.5kg±10%	

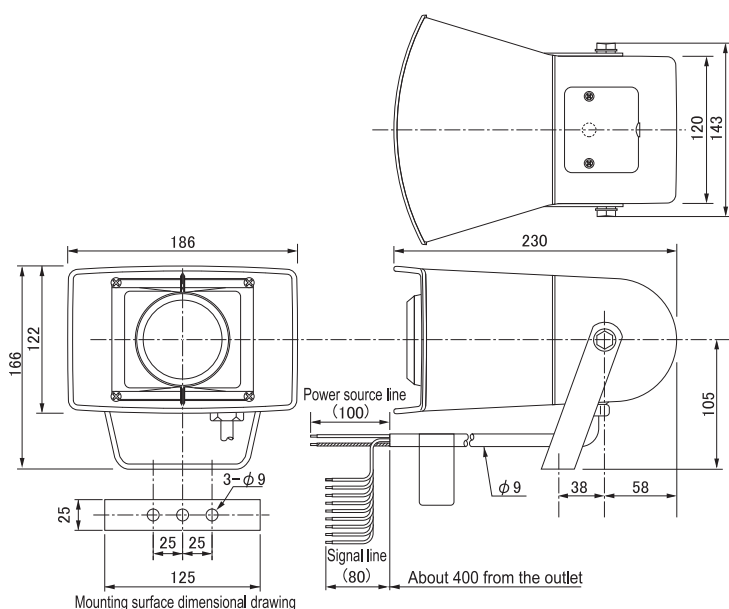
● For Model EWB-24□

This product conforms to EN standard and shows the CE Marking.

This product has been tested and found to comply with the limits for a Class A device, pursuant to EMC DIRECTIVE.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product must not be used in residential areas.

- Please note that we will not be held responsible for the failure or damage caused by handling the product in ways not observing the warnings or cautions contained in this document.
- Please note also that the contents in this document may be changed for improvement without notification in advance.



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PATLITE Corporation G2G
PATLITE Corporation ※Head office <http://www.patlite.com/>
4-1-3, Kyutaromachi, Chuo-ku, Osaka 541-0056 Japan
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