

Voice Synthesizer
Sprach-Synthesizer
Synthétiseur vocal
Sintetizzatore Vocale
Sintetizador de voz

Installation Manual
Installationsanleitung
Manuel d'installation
Manuale di installazione
Manual de instalación

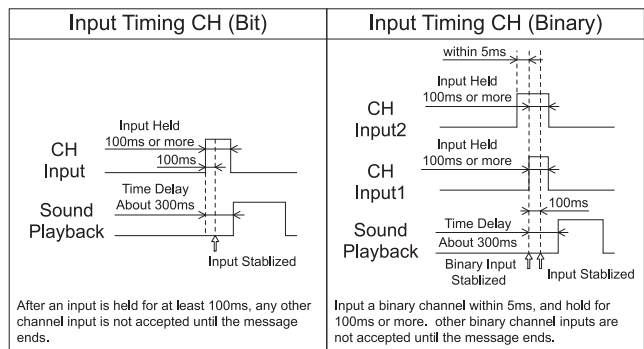
- Installation Wiring
- Installation Verkabelung
- Installation Câblage
- Installazione Cablaggio
- Instalación Cableado

TYPE BDV

6-5. Message Playback

- Turn the product on and short-circuit the signal line to the common line to for operation.
- Short-circuit the signal wire to common for 100ms or more (Pulse input).
 - When controlling this product via the power supply, the start-up takes about 500ms before the sound can play back.
 - The input timing for all modes and all the CH inputs are the same for when playing back messages. Please refer to the Input Timing Chart below for operation.
 - When two or more signal wires are short-circuited at the same time to the common lines for bit input, the higher channel takes priority (bit input only).

Priority Input Order : CH4>CH3>CH2>CH1



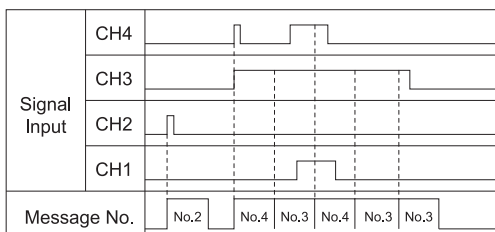
NOTE

- Although a pop noise may occur when the playback is controlled via the power supply or playback start and finish, it is not an indication of failure.
- Even when starting two or more units simultaneously, a lag will occur during message playback.

6-5-1. Bit Input Mode (Operation Mode Switch: A)

If signal wires from CH1 to CH4 are short-circuited to the common, the message of the selected channel will play back.

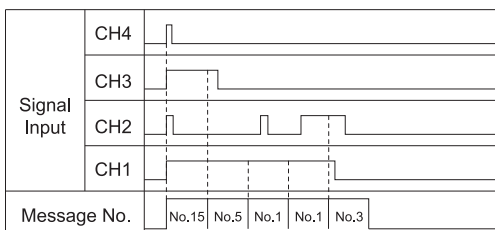
Signal Input Timing Chart (Bit Input)



6-5-2. Binary Input Mode (Operation Mode Switch: B)

If signal wires from CH1 to CH4 are short-circuited to the common, the message corresponding to the binary input conversion table will be played back. (Refer to the "Binary Input Table")

Signal Input Timing Chart (Binary Input)



Binary Input Table

Message No.	CH1	CH2	CH3	CH4	Message No.	CH1	CH2	CH3	CH4
1	1	0	0	0	9	1	0	0	1
2	0	1	0	0	10	0	1	0	1
3	1	1	0	0	11	1	1	0	1
4	0	0	1	0	12	0	0	1	1
5	1	0	1	0	13	1	0	1	1
6	0	1	1	0	14	0	1	1	1
7	1	1	1	0	15	1	1	1	1
8	0	0	0	1					

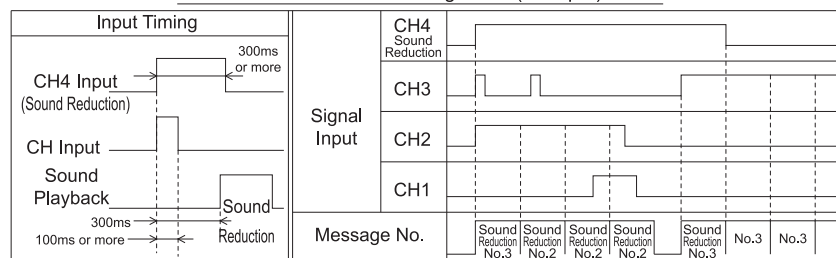
※ A "1" in the table refers to the short-circuit of the signal line to the common line.

6-5-3. Bit Input Sound Reduction Mode (Operation Mode Switch: C)

CH1 to 3 corresponds to Bit Inputs. CH4 Input reduces the volume by 10dB.

- CH4 has no input priority.
- When multiple messages are entered during playback, the next message will be reduced.
- In some cases, the message will be reduced by 10dB during playback.

Sound Reduction Timing Chart (Bit Input)

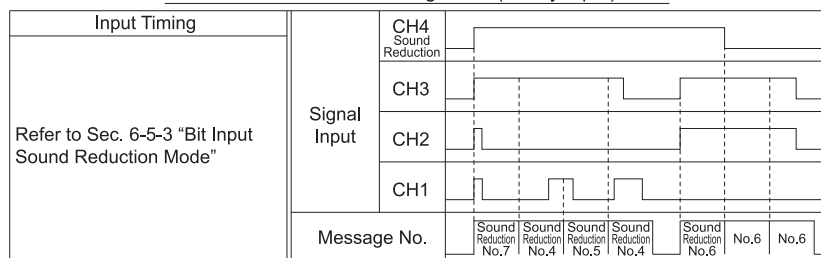


6-5-4. Binary Input Sound Reduction Mode (Operation Mode Switch: D)

CH1 to 3 corresponds to Binary Inputs. CH4 Input reduces the volume by 10dB.

- CH4 has no input priority.
- When multiple messages are entered during playback, the next message will be reduced.
- In some cases, the message will be reduced by 10dB during playback.

Sound Reduction Timing Chart (Binary Input)

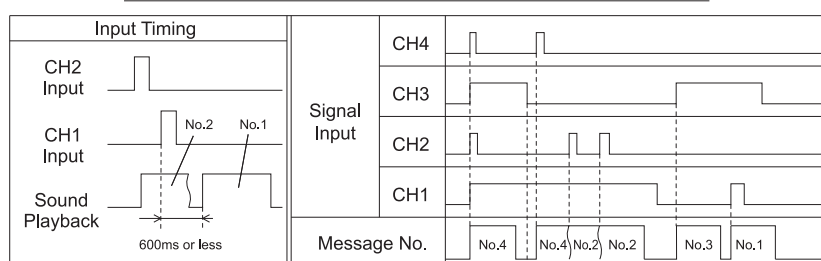


6-5-5. Bit Input Interrupt Playback Mode (Operation Mode Switch: E)

When one of the signal wires from CH1 to CH4 are entered for a bit input and an input message is entered during message playback, the message will interrupt the message being played.

- Even if the input is held down, the message playback will be reproduced only once.
- There is no Priority Input Order

Interrupt Playback Timing Chart (Bit Input)



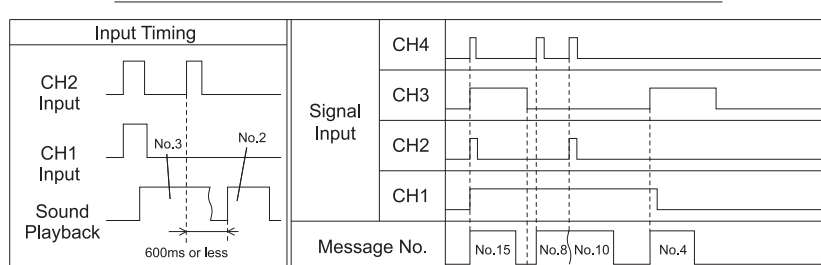
[] Indicates an interrupted message

6-5-6. Binary Input Interrupt Playback Mode (Operation Mode Switch: F)

When one of the signal wires from CH1 to CH4 for a binary input are entered and an input message is entered during message playback, the message will interrupt the message being played.

- Even if the input is held down, the message playback will be reproduced only once.
- There is no Priority Input Order

Interrupt Playback Timing Chart (Binary Input)

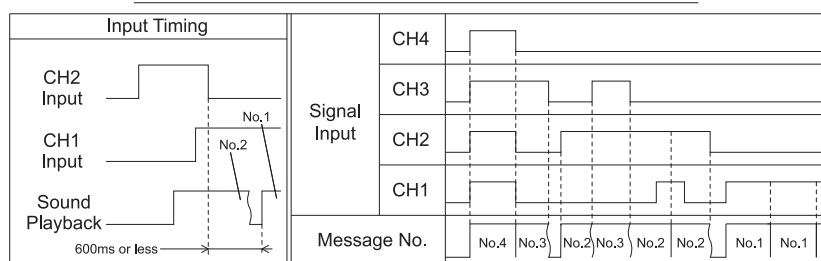


6-5-7. Bit Input Hold Playback Mode (Operation Mode Switch: G)

If the signal wires from CH1 to CH4 for a bit input are held when short-circuited to common, the message will repeat until the signal wire is removed from common.

- Once the input is lost, the playback will stop.

Hold Playback Timing Chart (Bit Input)

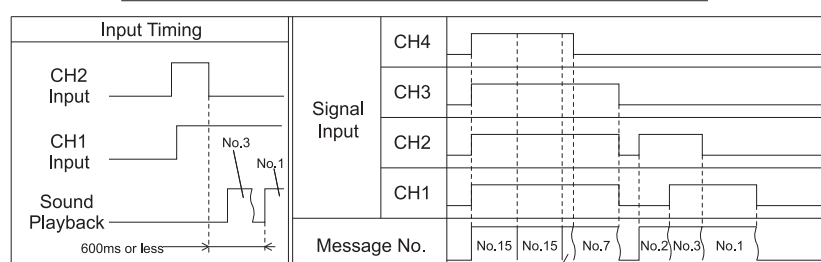


6-5-8. Binary Input Hold Playback Mode (Operation Mode Switch: H)

If the signal wires from CH1 to CH4 for a binary input are held when short-circuited to common, the message will repeat until the signal wire is removed from common.

- Once the input is lost, the playback will stop.

Hold Playback Timing Chart (Binary Input)



6-5-9. Test Playback (Operation Mode Switch: I through P)

Message from CH1 continues being played back. Any other CH inputs are ignored during test playback.

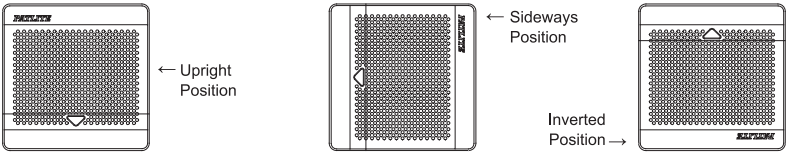
- Use the "Test Playback Mode" when checking the operation or adjusting the volume.
- To operate in the "Test Playback Mode", select the "Operation Mode Switch" to any mode from "I" to "P".
- Because the "Test Playback Mode" automatically resets the "Operation Mode" to "A", reboot the product after exiting the "Test Playback Mode" in order for the new settings to take effect.

7 Options and Accessories

SD Card : Model SDV-2GP

The SD Card is used when changing the messages for the Voice Annunciator product.

8 Specifications

Model	BDV-15JF	BDV-15KF	
Rated Voltage	12 - 24V DC	100V AC (50/60Hz)	220V AC (50/60Hz)
Voltage Range	10.8 - 26.4V DC	100V AC $\pm 10\%$	220V AC $\pm 10\%$
Power Consumption	Max. 4W	Max. 5W	
Sound Pressure Level	Max. 87dB: Placed on a 300mm ² base at a distance of 1 meter with a 1kHz sine wave at a -6dB input. Volume Adjustable ※Sound level of message will vary with the surrounding environment.		
Audio File	MPEG1 Audio Layer III (MP3) Standard Bit Rate: 64kbit/s, Fs=44.1kHz (CD Quality)		
File Format	FAT16		
Internal Memory Size	508kB (MP3 data total)/ Maximum playback time 63sec (at Standard Bit Rate)		
Number of Playback Messages	Bit Input: 4 / Binary Input: 15		
Operating Temperature Range	-10 to +50°C		
Relative Humidity	85% RH or less (no condensation)		
Mounting Direction	Indoor: Upright, sideways and inverted mounting (Use Upright if water splashing is present) Outdoor: Upright Direction Only 		
Protection Rating	IP54 (Upright Direction for Panel Mount only)		
Insulation Resistance	1M Ω or more (at 500V DC) between terminal and chassis		
Withstanding Voltage	500V AC for 1 minute	1500V AC for 1 minute	
	(Between terminal and chassis)		
Vibration Resistance	19.6m/s ² (Upright Position) At 30Hz in directions from back and fourth, left and right, up and down for 2 hours		
Mass	220g $\pm 10\%$	340g $\pm 10\%$	

- This product has been tested and found to comply with the limits for a Class A device. (BDV-15JF type only)
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.

【Outer Appearance Drawing】

Unit: mm

