

Thank you for purchasing the SP-34 EXTERNAL SPEAKER. To fully enjoy the benefits of the SP-34, please read these instructions thoroughly before using the speaker with a transceiver or receiver.

### FOREWORD

The SP-34 EXTERNAL SPEAKER is designed for use with a wide variety of communication equipment, especially base station systems. The SP-34 is equipped with four separate audio network filters for maximum control of the audio characteristics of received signals.

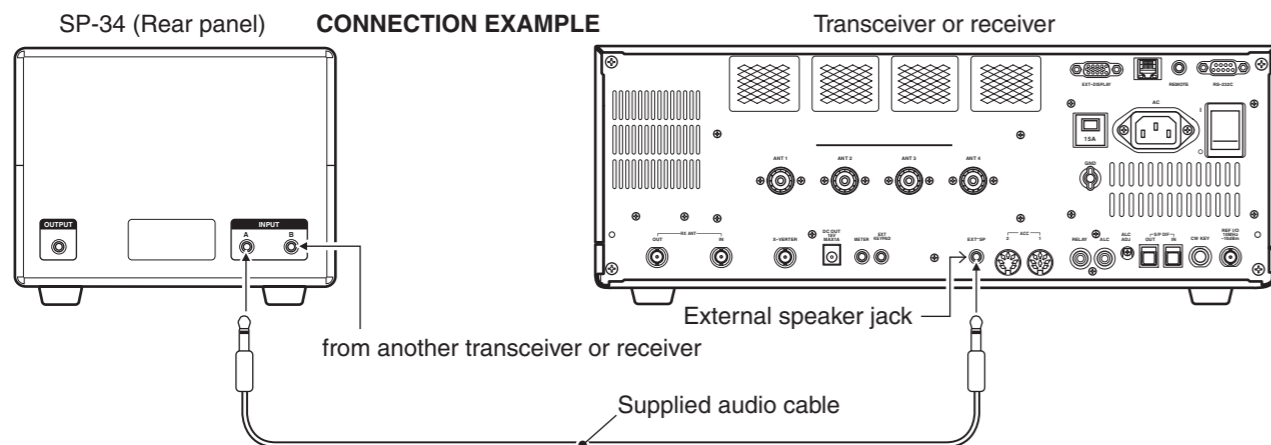
### SUPPLIED ACCESSORIES

- Instruction manual (This sheet) ..... 1
- Audio cable ..... 2
- Feet ..... 2

### CONNECTIONS

Connect the supplied audio cable between the [INPUT A] or [INPUT B] jack on the SP-34 rear panel and the external speaker jack of the transceiver or receiver. Another jack is available to connect another transceiver or receiver.

(Audio cable specification: 3.5 (d) mm; 1/8" plug, mono-  
phonic cable)

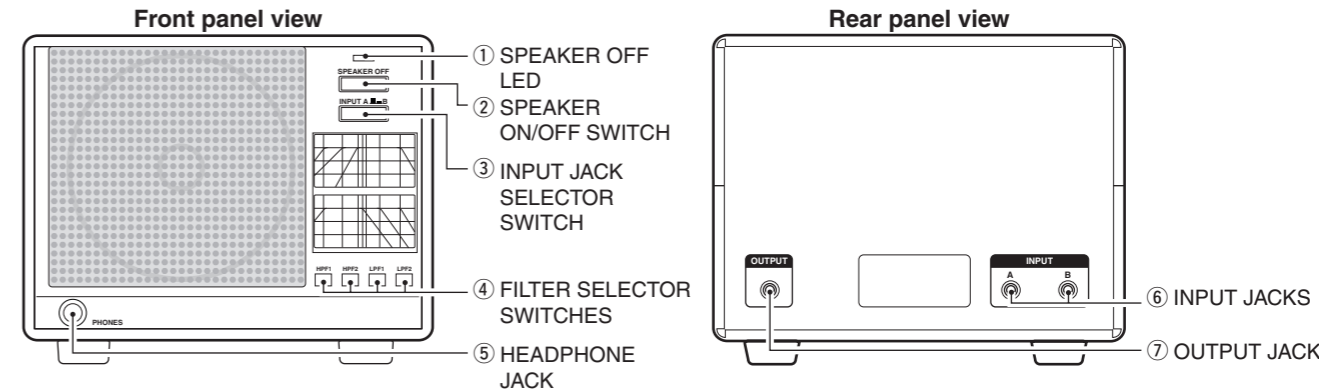


### SPECIFICATIONS

• Speaker	: 12 cm (4.7 inch) Cone-type	• Filter Response	: -6 dB/octave
• Rated Input Power	: 3 W	• Dimensions	: 150(H) × 200(W) × 343(D) mm
• Maximum Input Power	: 5 W	(Proj. not included)	5.9(H) × 7.9(W) × 13.5(D) inch
• Impedance	: 8 Ω	• Weight	: Approximately 3 kg (6.6 lbs.)
• Frequency Response	: 100 to 9000 Hz		
• Filter Cut-off frequency :			
HPF1	300 Hz at -3 dB point		
HPF2	600 Hz at -3 dB point		
LPF1	2.4 kHz at -3 dB point		
LPF2	800 Hz at -3 dB point		

All stated specifications are subject to change without notice or obligation.

### PANEL DESCRIPTION



#### • FRONT PANEL

##### ① SPEAKER OFF LED

When the [SPEAKER OFF] switch is pushed in, and audio signals are applied to the [INPUT A] or [INPUT B] jack, the Speaker OFF LED flickers and varies in intensity relative to the received audio signal strength.

##### ② SPEAKER ON/OFF SWITCH [SPEAKER OFF]

Push to turn the speaker or headphone audio output ON or OFF.

- Released ( ) : The audio is output.
- Pushed in ( ) : The audio is muted.

Regardless of the [SPEAKER OFF] switch position, audio signals are output from the [OUTPUT] jack.

**NOTE:** If no sound is heard from both the speaker and headphones, make sure the [SPEAKER OFF] switch is not in the pushed in position.

##### ③ INPUT JACK SELECTOR SWITCH [INPUT A/B]

Push to select [INPUT A] or [INPUT B] on the rear panel.

- Released ( ) : The [INPUT A] jack is selected.
- Pushed in ( ) : The [INPUT B] jack is selected.

##### ④ FILTER SELECTOR SWITCHES

[HPF1], [HPF2], [LPF1], [LPF2]

Push to select the internal audio filters that consist of high-pass and low-pass filters, with two different cut-off frequency characteristics for each filter. They are useful in producing a customized, personal audio sound.

##### • [HPF1] SWITCH

Cuts off audio output frequencies of approximately 300 Hz or less when the switch is pushed in.

##### • [HPF2] SWITCH

Cuts off audio output frequencies of approximately 600 Hz or less when the switch is pushed in.

##### • [LPF1] SWITCH

Cuts off audio output frequencies of approximately 2.4 kHz or more when the switch is pushed in.

##### • [LPF2] SWITCH

Cuts off audio output frequencies of approximately 800 Hz or more when the switch is pushed in.

**NOTE:** When both the [HPF1] and [HPF2] switches are pushed in, priority is given to the [HPF2] switch over the [HPF1] switch. Also in the [LPF1] and [LPF2] case, priority is given to the [LPF2] switch over the [LPF1] switch.

##### ⑤ HEADPHONES JACK [PHONES]

Connect a pair of headphones (impedance: 4–16 Ω) to this jack, if desired. The built-in speaker does not function while the [PHONES] jack is being used.

#### • REAR PANEL

##### ⑥ INPUT JACKS [INPUT A], [INPUT B]

Audio signals are applied to [INPUT A] or [INPUT B]. Use the supplied audio cable to connect between either jack and the external speaker jack on your transceiver or receiver. The SP-34 can be connected to two transceivers or receivers using these jacks.

##### ⑦ OUTPUT JACK [OUTPUT]

This jack outputs audio signals after they pass through the audio filters specified by the front panel filter selector switches. This is useful when operating terminal units such as RTTY, PSK31 or other data communication modes.

Regardless of the [SPEAKER OFF] switch position, audio signals are output from this jack.

**NOTE:** When the [SPEAKER OFF] switch is pushed in, be sure to turn OFF all of the filters [HPF1], [HPF2], [LPF1] and [LPF2].

Otherwise the audio signals from the [OUTPUT] jack might be affected.

### STAND ATTACHMENT

The speaker has adjustable feet for desktop use. Set the feet to one of two angles, depending on your operating preference.

