



# Owners Manual

**PHSP10TA**

**PHSP15TA**

**PHSP30TA**

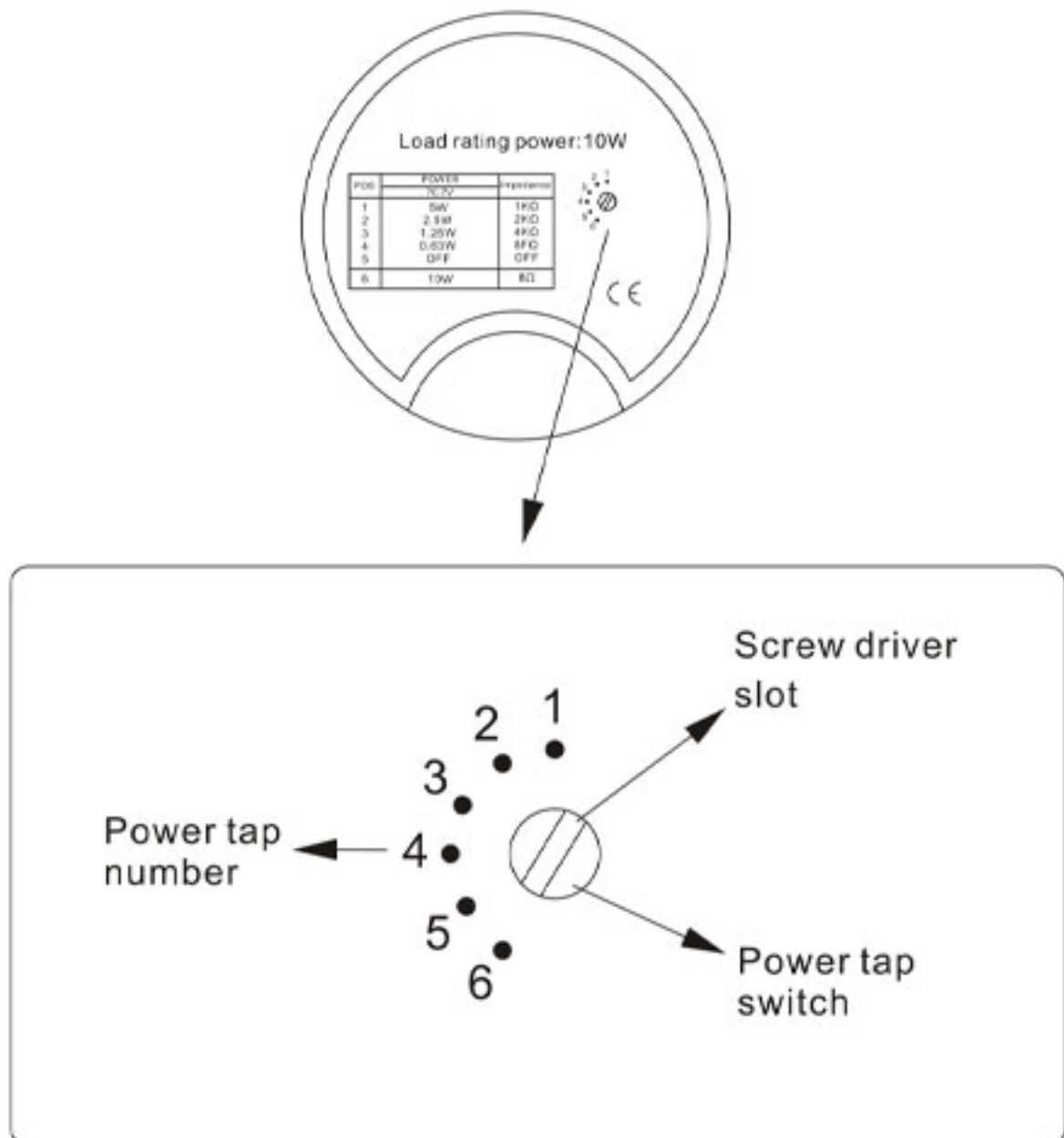
## How to use

1. Careful attention should be required for the polarity when more than two speakers are in operation at the same place, otherwise the sound of poor quality and/or sound pressure of low level will be reproduced. Connection should be made in the same way as in the case of battery, same polarity with parallel connection and different polarity with series connection.
2. When long wiring is called for, the low impedance connection invites large power loss, resulting in inefficient operation of speakers, In case wiring becomes longer than 50 meters, equip matching transformer and use with proper high impedance.
3. For low impedance connection, the total impedance of speakers should be equal to output impedance of amplifier.
4. Connect the speakers to be equal the total input power ( wattage ) to the output power of amplifier for high impedance connection. It means the impedance matching.

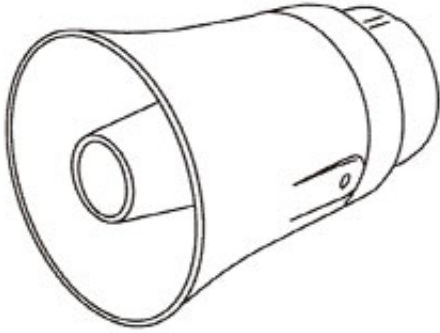
5. When setting the power tap switch, be certain to use the proper positions for either 70V systems, to prevent horn damage.  
(FOR PHSP10TA, PHSP15TA, PHSP30TA)

## Change Impedance

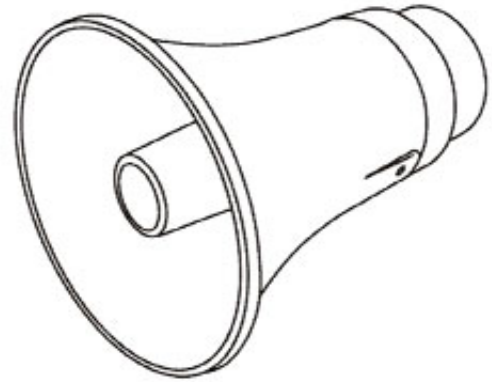
\*See instructions on HORN LABEL



## Speaker



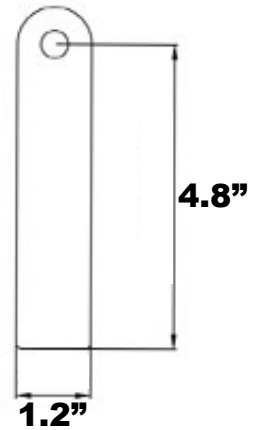
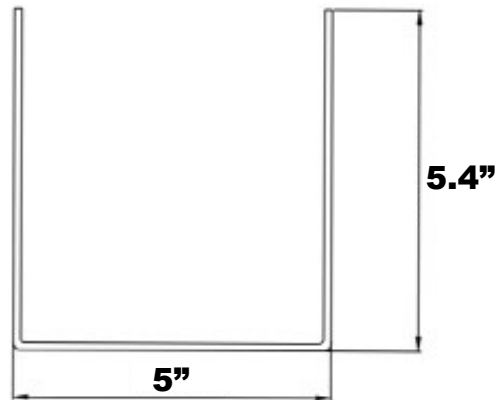
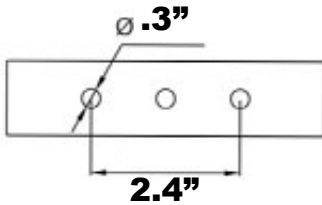
**PHSP10TA - 5.6" x 5.6" x 8.3"**



**PHSP15TA - 8.2" x 8.2" x 10.8"**

**PHSP30TA - 9.4" x 9.4" x 12"**

## Bracket



## Specifications

Technical data	PHSP10TA	PHSP15TA	PHSP30TA
Load rating	10W	15W	30W
Nominal impedance	8 ohms	8 ohms	8 ohms
Transformer tapings	10/5/2.5/1.25W	15/7.5/3.75/1.85W	30/15/7.5/3.75W
Frequency range	400Hz-10KHz	400Hz-10KHz	400Hz-10KHz
SPL(@1W/m)	105 dB	106 dB	108 dB
Dimension Ø×D(mm)	Ø143×210mm	Ø208×273mm	Ø240×303mm
Material	ABS	ABS	ABS

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