

AIPHONE

HIGH-POWER INTERCOMS

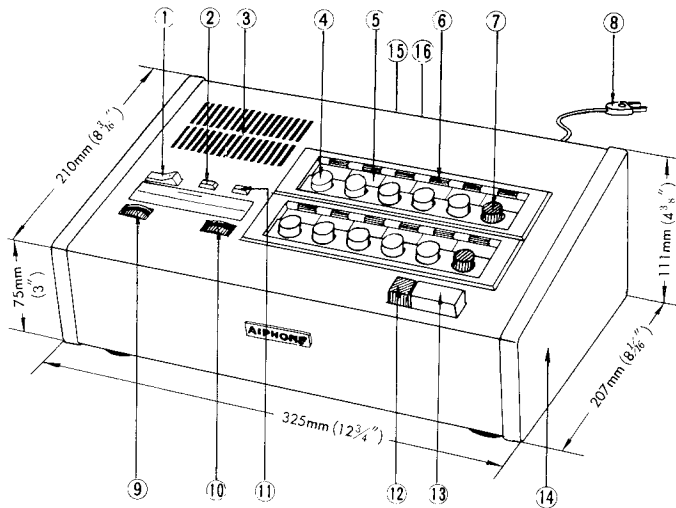
TALK-BACK PAGING SYSTEM WITH INTERCOM CAPABILITY

Model AP- 5S (5-way Master)

Model AP-10S (10-way Master)

— INSTRUCTIONS —

CONTROLS & FUNCTIONS



- ① Power switch
- ② Power on lamp
- ③ Speaker and microphone
- ④ Selector buttons
- ⑤ Directory
- ⑥ Annunciator lamp
- ⑦ OFF button
- ⑧ Power plug
- ⑨ Volume control (receiving)
- ⑩ Volume control (transmitting)
- ⑪ Occupied lamp
- ⑫ Tone call button
- ⑬ Talk/listen button
- ⑭ Cabinet
- ⑮ Terminal cover (rear)
- ⑯ Terminals (rear)

SPECIFICATIONS

Power source: 100 – 110V, 117 – 125V, 220 – 240V.

Output: Master to sub 10 watts maximum
Master to master 0.3 watts maximum
Sub to master 0.3 watts maximum
Impedance 8 or 16 ohm

FEATURES

- * Choice of 3 sub stations to meet individual requirements.
- * Up to two masters and any combination of subs per system to a total of 6 (AP-5S), or 11 (AP-10S).
- * Powerful 10 watt output.
- * Separate transmitting and receiving volume controls.
- * Electronic delay eliminates noise and echo while producing excellent voice fidelity.

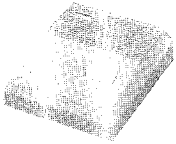
EQUIPMENT AVAILABLE



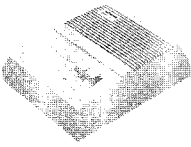
AP-5S: Five zone master with annunciation and amplifier.



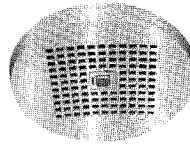
AP-10S: Ten zone master with annunciation and amplifier.



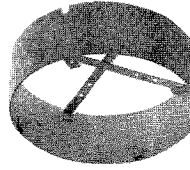
AS-3: Desk or wall mount substation. Includes call button.



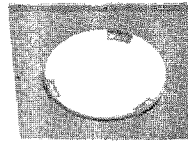
AS-3W: Same as above except can call two masters selectively.



AS-1: Ceiling or wall mount speaker.



N-E: Round surface frame for AS-1.



N-S: Square frame for AS-1.



NP-A: Momentary call button. Use with AS-1 or customer provided speaker or horn.



NP-AN Type A: Memory call button. Tone & lamp stay on until answered or cancelled. Use with AS-1 or customer provided speaker or horn.

WIRING:

A single pair of wires are required to each substation. Five conductors are required between masters. Use twisted pair cable.

Select the proper size wire from the chart below:

AWG	24	22	20	18	16	14
Distance	250'	425'	625'	975'	1300'	1700'
Diameter	0.5 mm	0.65 mm	0.8 mm	1.0 mm	1.2 mm	1.4 mm
Distance	75 m	130 m	190 m	300 m	400 m	500 m

INSTALLATION OF CALL BUTTONS:

Using AS-1

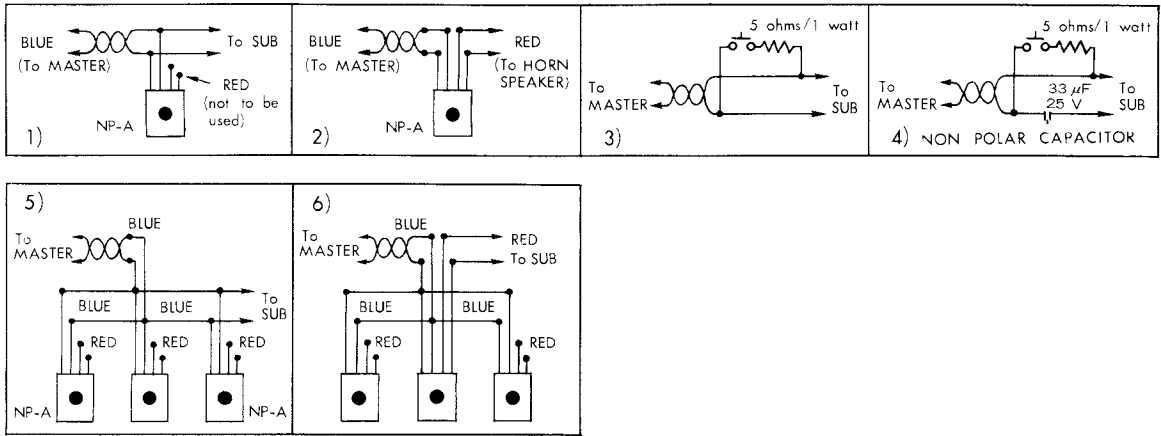
- with NP-A or NP-AN see illustration #1
- with customer provided momentary contact push button see illustration #3
- with multiple call buttons see illustration #5

Using customer provided horn or cone speaker

- with NP-A or NP-AN see illustration #2
- with customer provided momentary contact push button see illustration #4
- with multiple call buttons see illustration #6

If a call button is not required, insert a 33mf non-polar capacitor in one side of the line. If a 33mf capacitor is not available, two 50mf, 25V electrolytic capacitors may be used when connected in series + to +, or - to -.

See page 4 for further examples.



Installation of AS-1 substation:

1. Cut hole for speaker, and install wire.
2. Install mounting ring, N-S square frame, or N-E surface mounting frame.
3. Connect wires.
4. Align red arrow on rear of speaker grille with red dot on mounting ring, insert studs into slots and turn counter clockwise until locked.

OPERATION

MASTER STATION

Placing a call:

Select desired station and momentarily depress call tone button. When sub responds use talk-listen switch to control communications. Depress black cancel button at end of every conversation.

Receiving a call:

If another master calls, operation is hands free.

If a sub station calls in, it will be annunciated by lamp and tone. Select the station under the annunciator lamp and use talk-listen switch to control communications. Depress black cancel button at the end of every conversation.

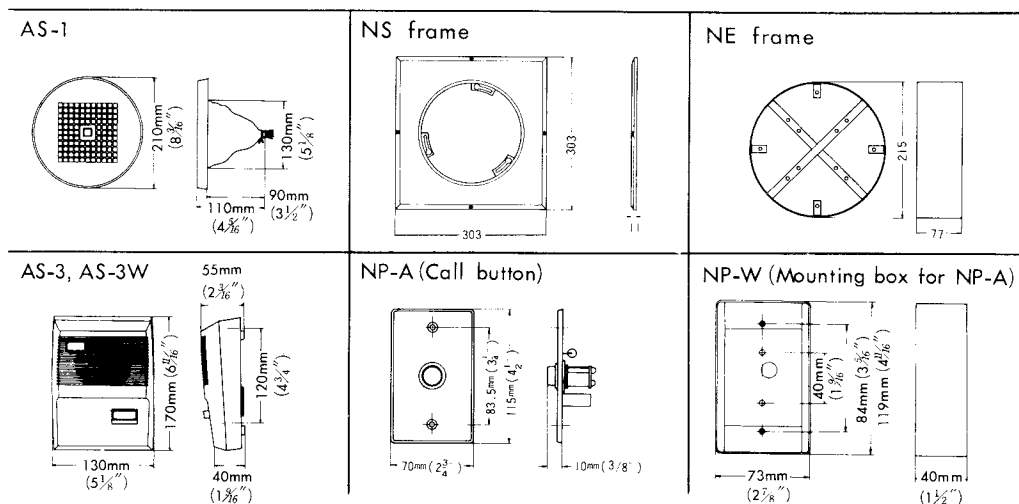
SUB STATION

Depress call button and await the reply. No other operation is necessary.

Volume control:

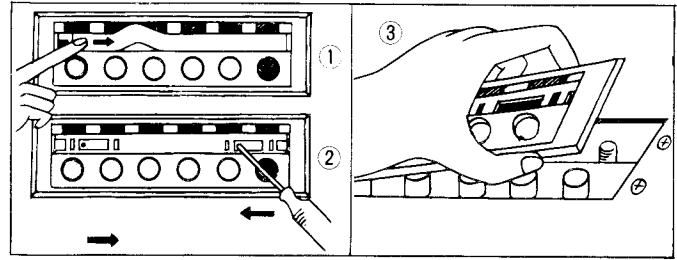
Transmitting and receiving volumes may be adjusted individually, as required.

SUB STATION AND CALL BUTTON



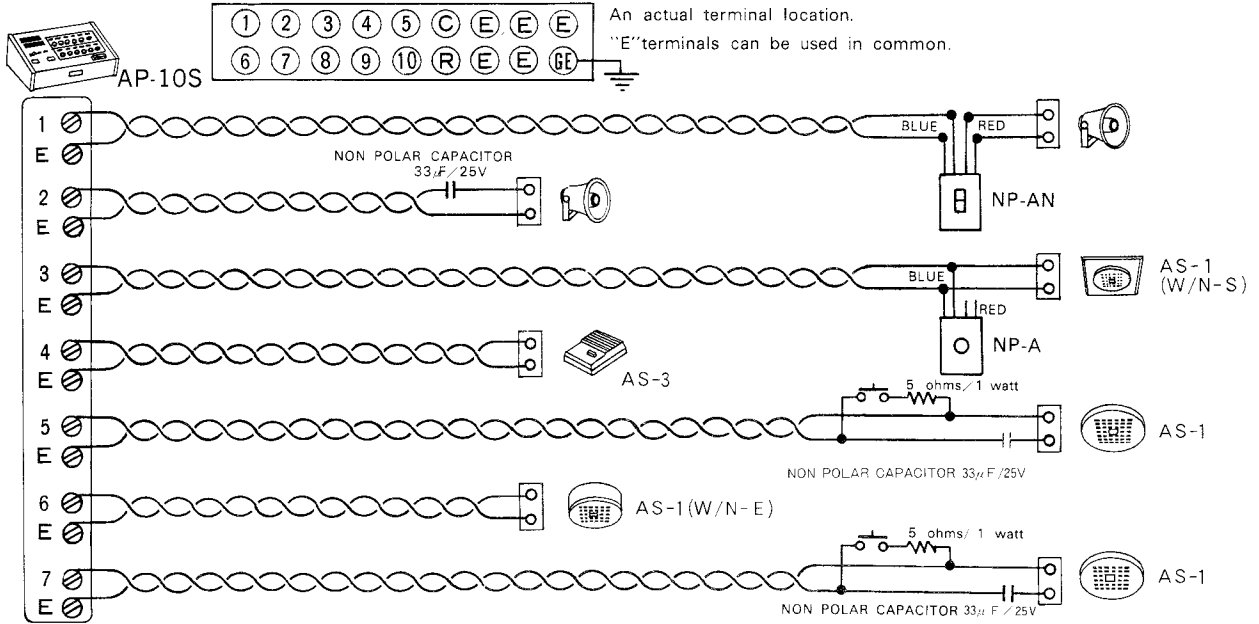
Replacement of annunciator lamp:

Remove the name plate as shown in figure 1, and move the metal fitting to either side as shown in figure 2, which unlocks the panel. Remove the panel and replace the lamp as shown in figure 3.

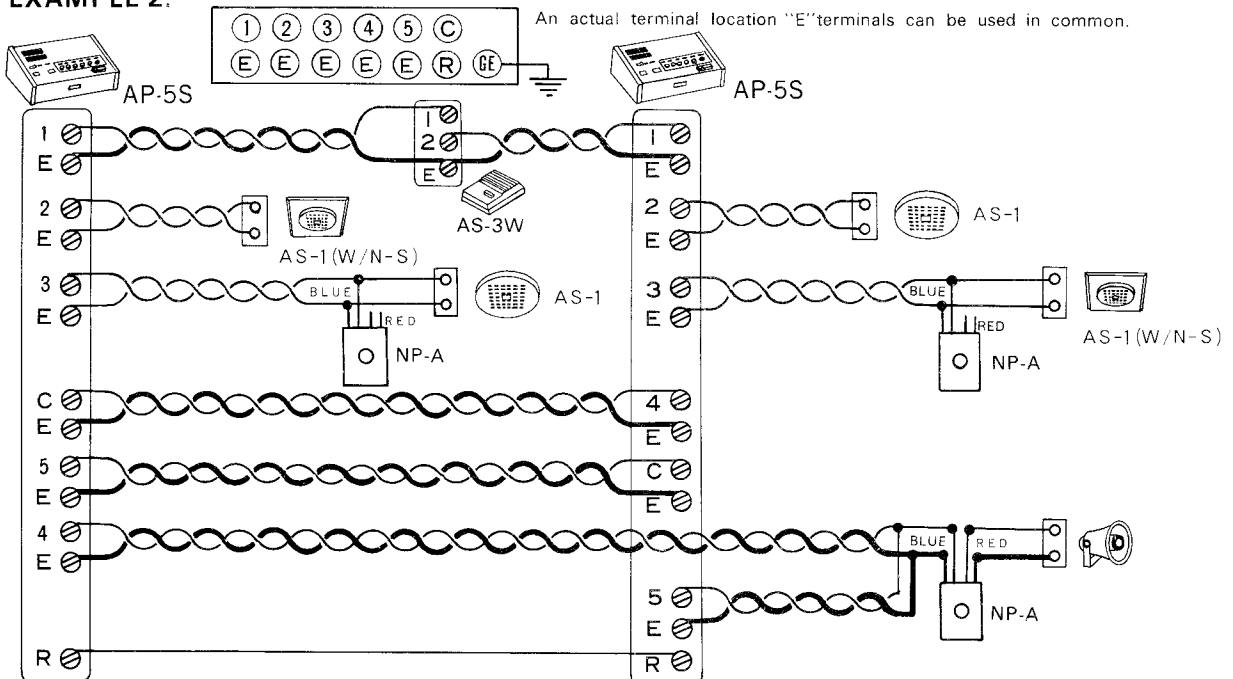


WIRING EXAMPLE :

EXAMPLE 1



EXAMPLE 2.



NOTE: Carefully observe polarity of connections between masters and/or to subs connected to two masters.