⊘ AIPHONE ®

NH-50AC

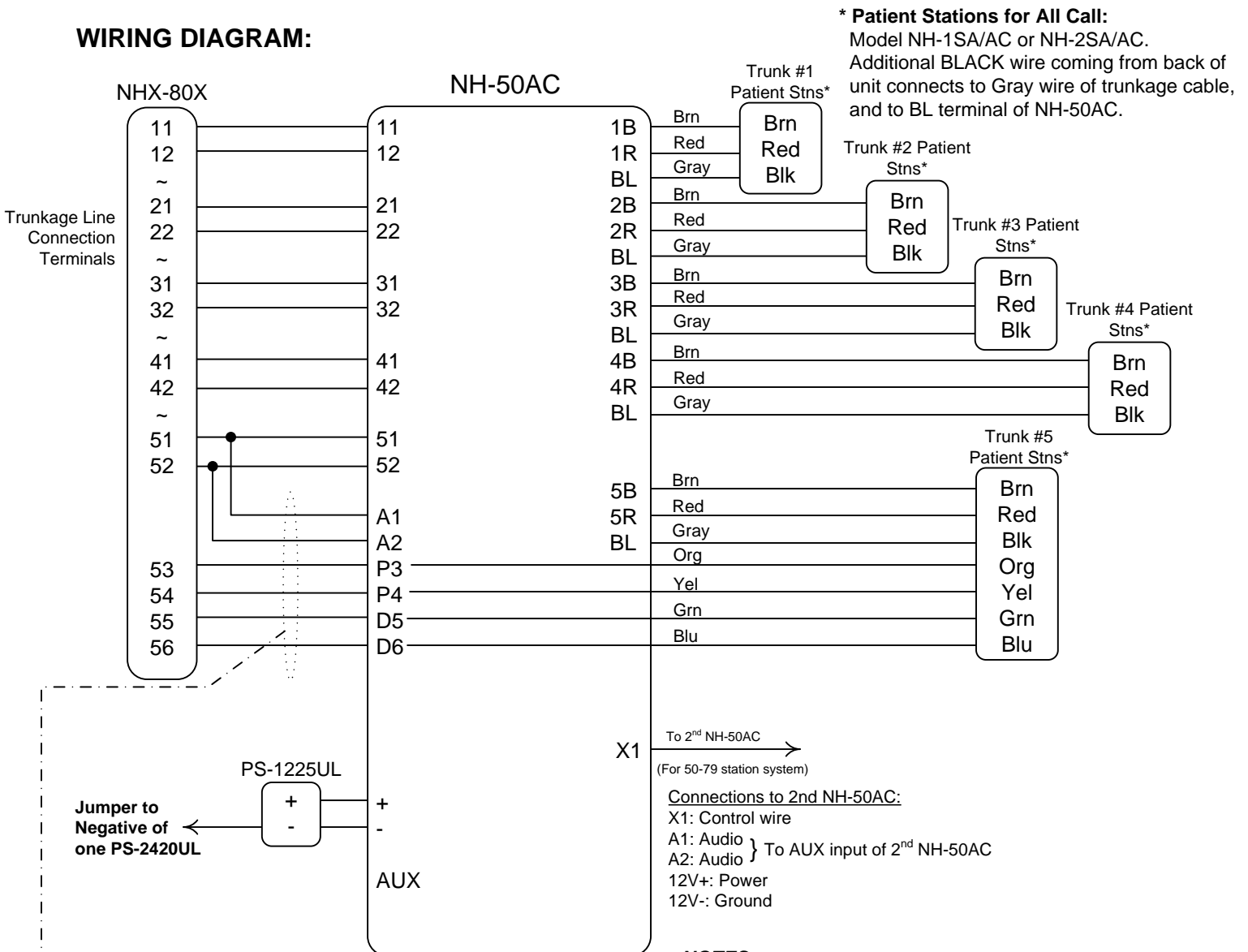## All Call Adaptor for NHX System

1 NH-50AC for All Call up to 49 Stations, 2 NH-50AC for up to 79 Stations

- INSTRUCTIONS -

Some applications for Nurse Call systems require All Call. By including this adaptor, a station button on the master can be used to call all of the patient stations simultaneously. An additional wire is required to each patient station.

NOTE: An NHX system installed with an NH-50AC included does not carry the UL 1069 listing.

WIRING DIAGRAM:

* Patient Stations for All Call:
Model NH-1SA/AC or NH-2SA/AC.
Additional BLACK wire coming from back of unit connects to Gray wire of trunkage cable, and to BL terminal of NH-50AC.

X1 To 2ⁿᵈ NH-50AC
(For 50-79 station system)

Connections to 2nd NH-50AC:
X1: Control wire
A1: Audio ⎱ To AUX input of 2ⁿᵈ NH-50AC
A2: Audio ⎰
12V+: Power
12V-: Ground
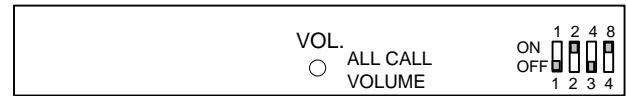
IMPORTANT:
Connection from CCU trunk line terminals determines which column the All Call button will be on. (e.g. This example shows trunk line 5, so All Call button will be on column 5 of master station. Dip switch settings on the NH-50AC will designate the All Call button position (1~10).

NOTES:
1. The application requires one of the station buttons to be used for All Call.
Therefore, the standard system can have up to 49 stations, and the expanded system can have up to 79 stations.
2. Only wiring concerning the NH-50AC is shown here. For complete installation and wiring information, please see the NHX Installation instructions.

Pg. 1

VOL.
○ ALL CALL
VOLUME

```
1 2 4 8
ON ▯▯▯▯
OFF▯▯▯▯
1 2 3 4
```

Back

HI
MID
LOW
1 2 3 4 5
ALL CALL
TRUNK
VOLUME

CONTROLS AND SETTINGS:

DIP SWITCH SETTINGS:
1-2-4-8 Switches: (labelled 1, 2, 3, 4 on actual switch)
1. Set dip switches to the numerical value of the station button
   you are designating as the ALL CALL button. (Recommended to use 10)
2. Station numbers are 1-10 vertically on the master station.
   If the All Call button is the TOP button on a column, set dip switch 1 to ON.
   If the All Call button is the BOTTOM button, set switches 2 & 8 to ON.

TRUNK VOL.:
These switches adjust the output volume level of the All Call to each group of stations (trunk lines).
Adjust the switch to LOW, MID, or HI for the desired volume.

ALL CALL VOL.:
This controls the overall output volume of the All Call. Adjust to the desired level.

WIRING:

1. Follow the wiring diagram on page 1 of these instructions.
2. Connection from NHX-80X to A1, A2, P3, P4, D5, D6 terminals of the NH-50AC correspond to which trunk line the All Call button is on. If the All Call button is on column 5 of the master, connect as shown on the diagram. If the All Call button is on any other column on the master, connect A1~D6 from appropriate corresponding trunk line terminals of NHX-80X.
3. The P3, P4, D5, D6 terminals act as a junction point for the common wires of the trunk line that the All Call adaptor is on. The NH-50AC has to be wired directly from the NHX-80X, then the patient station trunk wires go out from there.
4. Wiring from the NH-50AC to patient stations require an extra wire. Use the GRAY wire from the Aiphone #862208 trunk cable to connect the BLACK wire of the patient stations to the BL terminal of the NH-50AC. (Two BL terminals are paralleled internally, so either of them can be used.)
5. The X1 terminal is only used in systems beyond 49 stations when a second NH-50AC is required. The AUX input is only used on the second All Call adaptor. Wire the A1, A2 terminals of the first adaptor to the AUX input of the second.

OPERATION:

1. Press button on the master station that has been designated as the ALL CALL button.
2. Pick up handset and make announcement, or press and hold TALK button while speaking.
3. Hang up handset, or press OFF button when ALL CALL announcement is completed.

SPECIFICATIONS:

Power Source: 12V DC. Use PS-1225UL, one per system (powers one or two NH-50AC)
Communication: Handset or push-to-talk. All Call is transmit only.
Wiring: 16 conductors from NHX-80X to NH-50AC
                 1 pair from trunkage line plus one additional wire output to patient stations
                 5 conductors from first to second NH-50AC