⊕ AIPHONE

IC series DOOR STATION

MODELS:	*IC-D1, IC-DL1*	1-call, surface-mount
	IC-D2, IC-DL2	2-call, surface-mount
	IC-D3, IC-DL3	3-call, surface-mount

INSTRUCTIONS

ACCESSORIES INCLUDED;

SCREW (x 2)   WOOD SCREW (x 2)

OPENER   LAMP (only for IC-DL unit)

MOUNTING BRACKET

DIRECTORY CARD (x 9)

IC-D1
IC-DL1

IC-D2
IC-DL2

IC-D3
IC-DL3
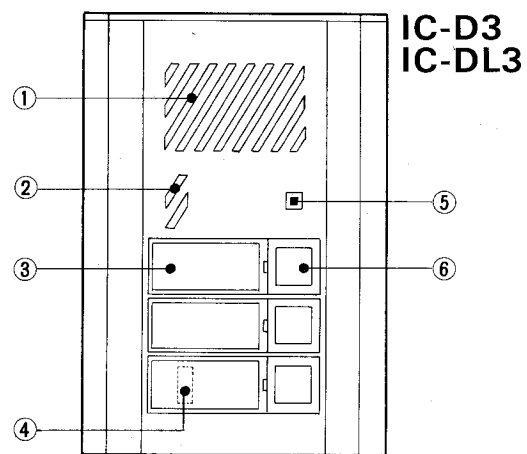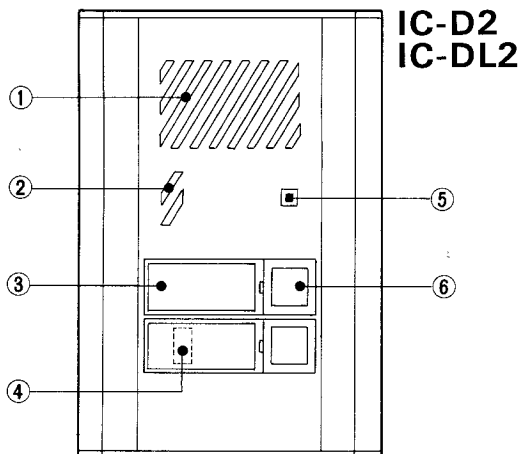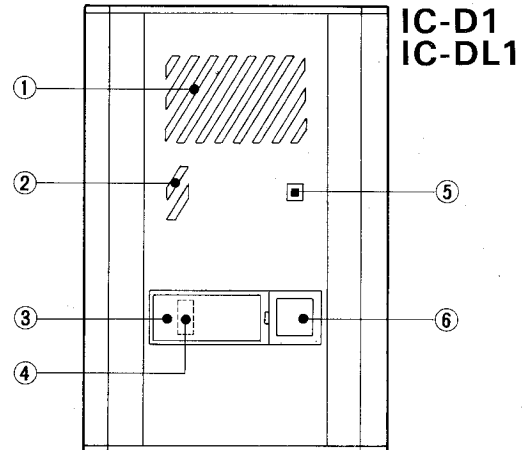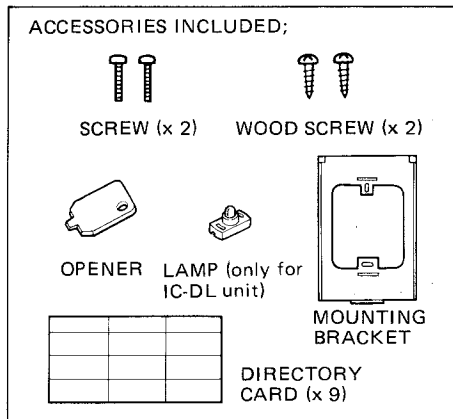
① NAMES AND FUNCTIONS

① Speaker
② Microphone
③ Directory card
④ Illumination lamp (on IC-DL1/2/3 only) ... located under directory card.
⑤ Location indicator LED
⑥ CALL button.

② FEATURES

* Can work with Aiphone Chime Tone Intercoms: IC-1AD(U), IC-1GD(U)/A & IC-2AD(U)/A.
* Calls selectively up to three room stations (on IC-D3/DL3).
* Call-acknowledged tone heard at door station.
* Surface-mount with rigid aluminum panel.
* LED for location indication in the dark.
* Illumination from under directory card (IC-DL type).
* Communicates with the last called room station.

3 BEFORE YOU INSTALL AND OPERATE THE EQUIPMENT
### — Prohibitions and precautions —

* Operation;
  1. On IC-D2, D3/DL2, DL3, DO NOT TOUCH CALL BUTTON OF OTHER ROOM. It will cut off present communicatio and calls a corresponding room station.
  2. Door release can be activated at non-communicating room stations also. Observe that door release is operated only when receiving a call from door station.

* Installation;
  1. DO NOT CONNECT ANY TERMINAL ON ANY UNIT TO AC POWER LINES.
  2. When you mount IC-D/DL series door station in place of existing bell or chime, be sure to disconnect wires from the present transformer.
  3. Select the installation locations that would not be exposed to temperature/ humidity extremes, water, oil, dust, iron dust, inflammable & chemical products, etc.

* Maintenance;
  1. Clean your equipment with a soft cloth dampened with neutral household cleanser.
  2. Do not splash water on the door station by hose, etc.
  3. Filling in directory and lamp replacement;
     As shown; the transparent cover can be removed, using a supplied opener. Fill in directory and slide the cover back to place.
     To replace the lamp, turn off the system's power supply and pull the lamp off from the pin terminals, using a pincette, etc.
     Be careful not to touch with other components.

OPENER

PINCETTE

PULL
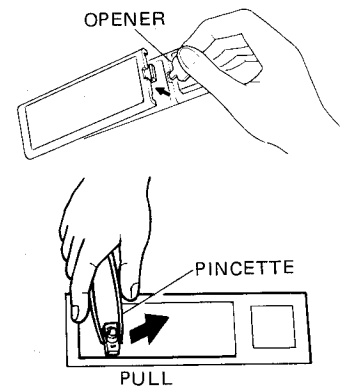
4 ACTUAL TERMINAL LOCATION
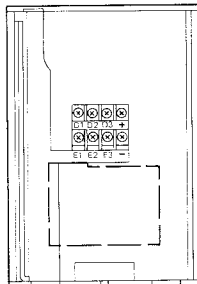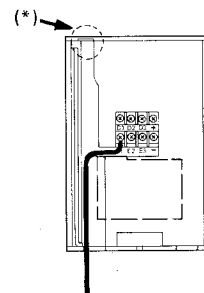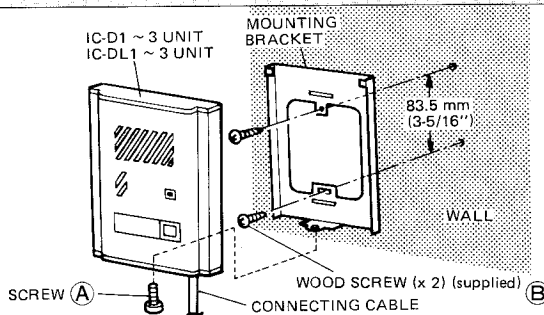
D1 , E1 : for connecting the first room station

D2 , E2 : for connecting the second room station

D3 , E3 : for connecting the third room station

+ , − : for power supply

NOTE; IC-D2/DL2 have no D3 E3 terminals.

IC-D1/DL1 have no D2 E2 nor D3 E3 terminals.

IC-D3/IC-DL3 BACK VIEW

5 INSTALLATION

IC-D1 ~ 3 UNIT
IC-DL1 ~ 3 UNIT

MOUNTING
BRACKET

83.5 mm
(3-5/16")

WALL

SCREW Ⓐ

WOOD SCREW (x 2) (supplied) Ⓑ
CONNECTING CABLE

(*)

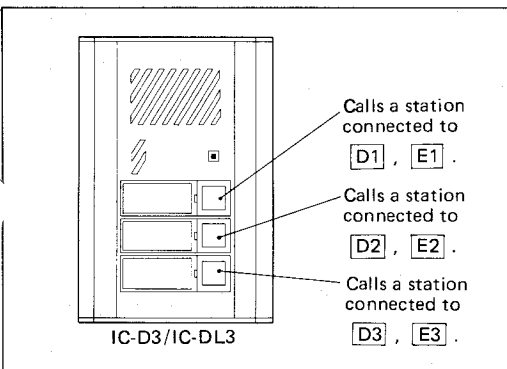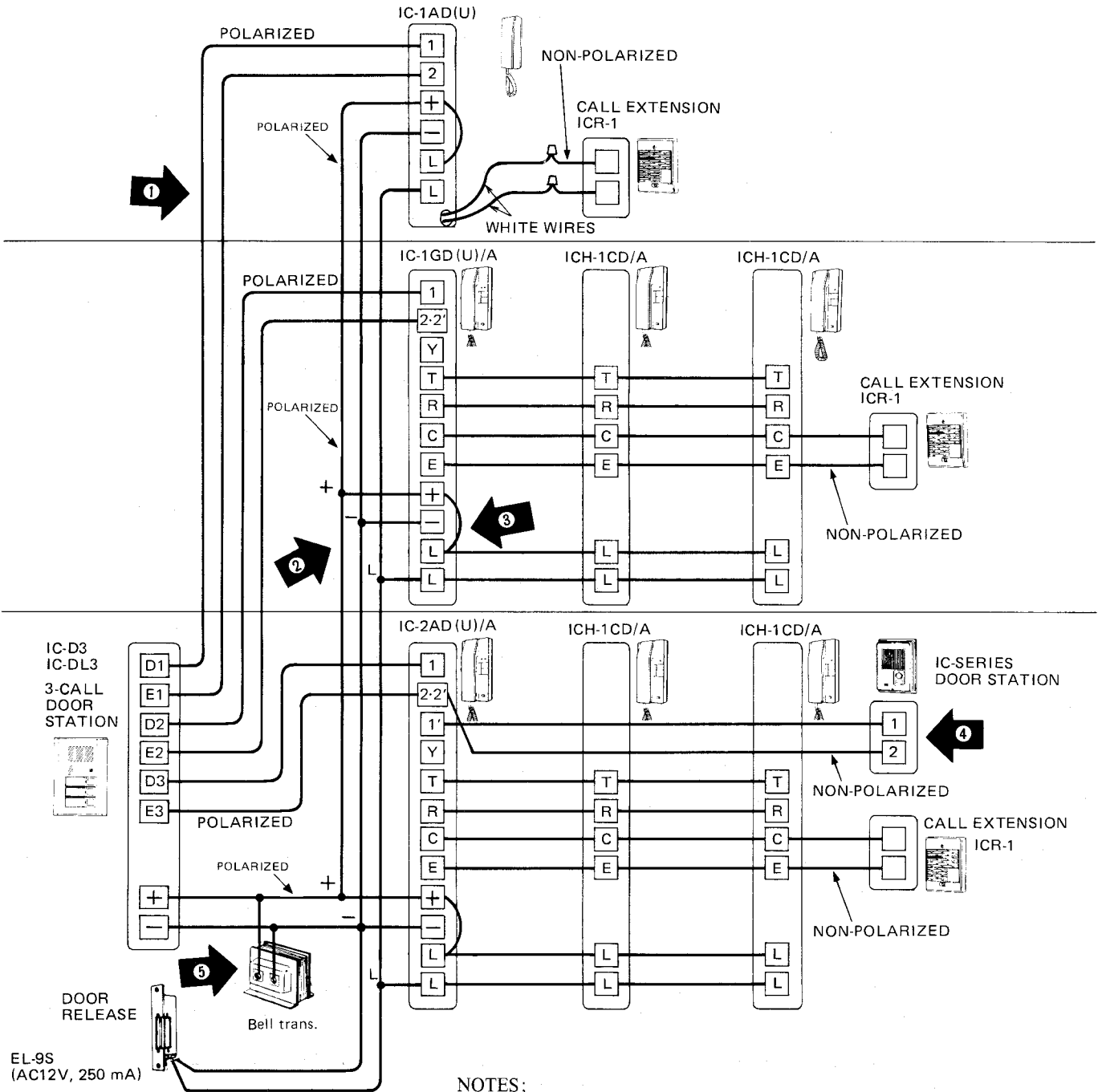Connecting cable can be passed from either top or bottom of the chassis.
(*) Cut off the part by nipper, etc. for cable inlet.

* Surface-mounting to wall;
  1. Remove a screw Ⓐ on bottom of IC-D1 ~ 3/IC-DL1 ~ 3.
  2. Attach the mounting bracket directly to wall with the supplied wood screws Ⓑ, or to one-gang box with the supplied screws.
  3. After wiring, reattach IC-D1 ~ 3/IC-DL1 ~ 3 unit to the mounting bracket.

POLARIZED

IC-1AD(U)

1
2
+
−
L
L

NON-POLARIZED

CALL EXTENSION
ICR-1

POLARIZED

WHITE WIRES

①

POLARIZED

IC-1GD(U)/A   ICH-1CD/A   ICH-1CD/A

1
2-2'
Y
T
R
C
E
+
−
L
L

T
R
C
E

L
L

T
R
C
E

L
L

CALL EXTENSION
ICR-1

POLARIZED

NON-POLARIZED

③

②

+
−
L

IC-D3
IC-DL3

3-CALL
DOOR
STATION

D1
E1
D2
E2
D3
E3

IC-2AD(U)/A   ICH-1CD/A   ICH-1CD/A

1
2-2'
1'
Y
T
R
C
E
+
−
L
L

T
R
C
E

L
L

T
R
C
E

L
L

1
2

IC-SERIES
DOOR STATION

④

NON-POLARIZED

CALL EXTENSION
ICR-1

NON-POLARIZED

POLARIZED

POLARIZED

+
−

+
−
L

⑤

Bell trans.

DOOR
RELEASE

EL-9S
(AC12V, 250 mA)

IC-D3/IC-DL3

Calls a station
connected to
D1 , E1 .

Calls a station
connected to
D2 , E2 .

Calls a station
connected to
D3 , E3 .

NOTES;
(1) The above diagram illustrates IC-D3/IC-DL3 number button signals by
    chime tone each floor separately.
    Wiring is polarized between IC-D(L)1/2/3 door station and main
    room station.
(2) Wiring method remains unchanged on terminals ⊞ , ⊟ and Ⓛ , Ⓛ
    from door station to main room station, regardless of main room station
    type, either IC-1AD(U), IC-1GD(U)/A or IC-2AD(U)/A.
(3) Install a jumper wire between terminals ⊞ & Ⓛ on each main room
    station, if door release is included.
(4) The second door station is optional for IC-2AD(U)/A system. Select a
    suitable type, either IC-D1, IC-DL1 or other IC series.
(5) For power supply, use a bell transformer enough to supply power for
    both communication and door release (EL-9S). See POWER SUPPLY
    REQUIREMENTS on page 4.

7 SPECIFICATIONS

* Power source;   AC 12 ~ 16 V or DC 12 ~ 24 V.
* Current consumption;

	AC 12 ~ 16 V	DC 12 ~ 24 V
IC-D1	1 mA	1 mA
IC-D2	50 mA	25 mA
IC-D3	50 mA	25 mA
IC-DL1	70 mA	40 mA
IC-DL2	110 mA	90 mA
IC-DL3	140 mA	130 mA
IC-1AD(U)	135 mA	150 mA
IC-1GD(U)/A	200 mA	320 mA
IC-2AD(U)/A	200 mA	320 mA

Example; For the system with IC-DL3 used (on Page 3), select a bell transformer or power supply suitable for both communications and door release;

(1) Bell transformer (AC 12 V);   140 mA (IC-DL3) + 135 mA (IC-1AD(U)) + 200 mA (IC-1GD(U)/A) + 200 mA (IC-2AD(U)/A) + 250 mA (EL-9S)
= 925 mA or more.

(2) Power supply (DC 12 V);   130 mA (IC-DL3) + 150 mA (IC-1AD(U)) + 320 mA (IC-1GD(U)/A) + 320 mA (IC-2AD(U)/A)
= 920 mA or more
plus a bell transformer for EL-9S (AC 12V, 250 mA) is required.

* Communication;   Simultaneous.
* Calling;   Pressing CALL button signals the room station by electronic chime.
* Wiring distance;   For communication;

Diameter of wires	0.5 mm	0.65 mm	0.8 mm
IC-D1 ~ 3/DL1 ~ 3 ~ main room station	90 m	150 m	230 m
AWG	24 AWG	22 AWG	20 AWG
IC-D1 ~ 3/DL1 ~ 3 ~ main room station	300′	500′	750′

* Dimensions;   Height: 175 mm (6-7/8″) x Width: 120 mm (4-3/4″) x Depth: 25 mm (1″).
* Weight;   Approximately 430 g (0.9 lbs.)

8 OPERATIONS

* Calling and communication;
Depress momentarily CALL button to signal a room station(s). After room station replies, communicate handsfree.
If CALL button of other room is pressed, the present communication is cut off and signals the corresponding room station(s).