

"PICTUREPHONE[®]" SERVICE (PHASE 0)
1P2 KEY TELEPHONE SYSTEM
2- OR 3-LINK INTERCOM FOR "PICTUREPHONE" SERVICE
METHOD OF OPERATION

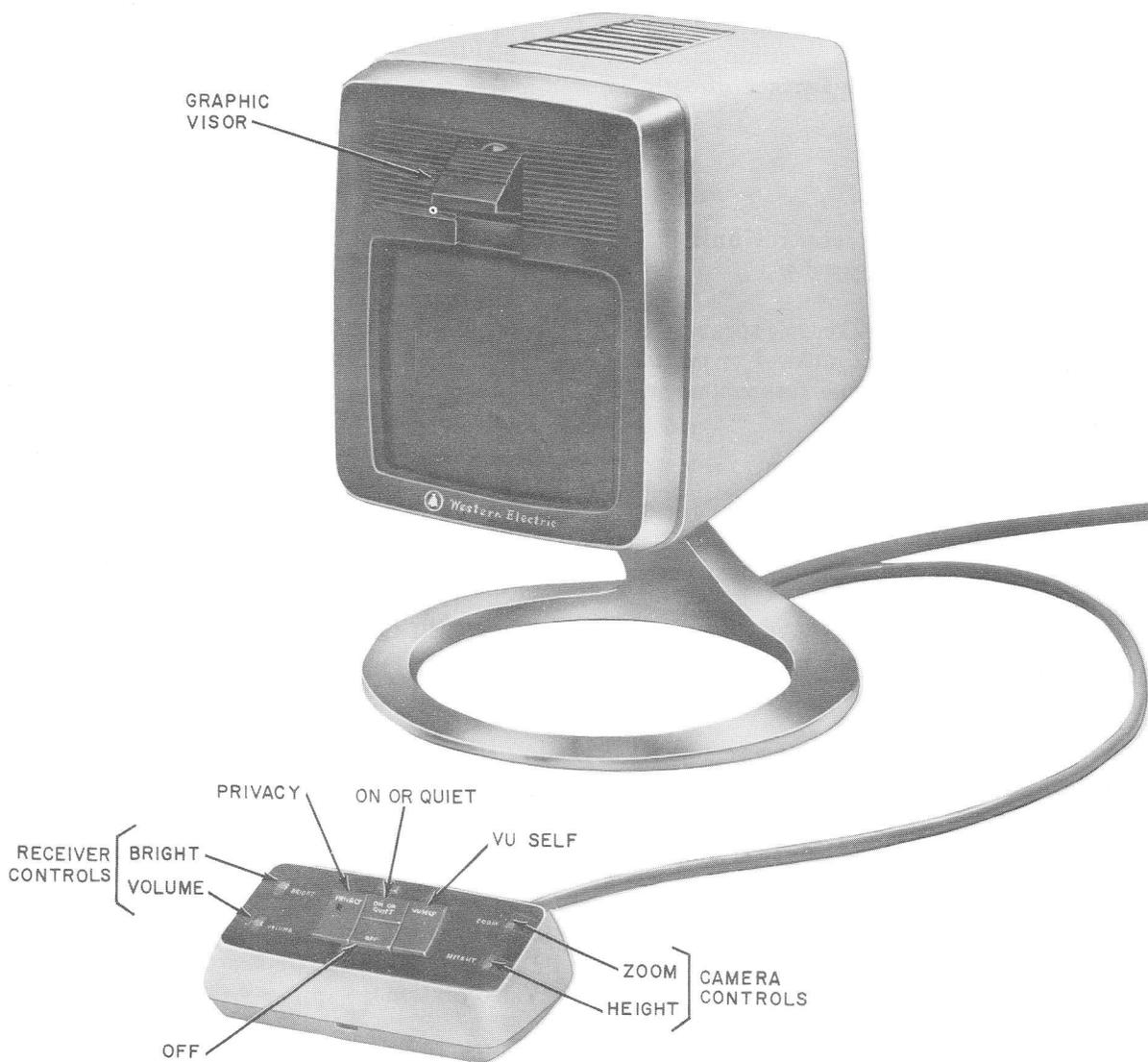


Fig. 1—1A Display Unit and 72A Control Unit

1. GENERAL

1.01 This section is reissued to provide method of operation information for a PICTUREPHONE® Intercom Conference Key System (PICKS) call.

2. 2C VIDEO TELEPHONE STATION CONTROLS

1A Display Unit

(a) GRAPHIC VISOR—Pull up to open, push down to close, mirror on the underside. Used to transmit image of graphic material positioned on the horizontal surface directly in front of display unit.

72A Control Unit

Note: Lamp on 72A control unit lights when ON button is depressed.

(b) ON OR QUIET Button—Controls speakerphone. Push to turn on set and answer or originate a call. Disables speakerphone transmitter while depressed.

(c) OFF—Push to turn set off.

(d) VU SELF Button—Push to view image being transmitted without interrupting transmission to distant party.

(e) PRIVACY Button—Push to change image being transmitted to horizontal bar pattern.

Note: Pushing the OFF button restores VU SELF and PRIVACY functions to normal.

(f) ZOOM Knurled Finger Wheel—Rotate in either direction to change size of image being transmitted;

(g) HEIGHT Knurled Finger Wheel—Rotate in either direction to move image being transmitted up or down. Has no effect when ZOOM is at maximum.

(h) VOLUME Knurled Finger Wheel—Rotate in either direction to control volume of loudspeaker.

(i) BRIGHT Knurled Finger Wheel—Rotate in either direction to control brightness of image on own display unit screen.

Key Telephone Set (Controls For Optional Features)

(j) HOLD Key—(Nonlocking) Depress to place calls on hold.

(k) DIRECT STATION SELECTION (DSS) key—(Nonlocking) Depress (for at least 1 second) to select intercom station associated with key.

(l) REGISTER RECALL (RRC) key—(Nonlocking) Depress (for at least 1 second) to request dial tone when on an established call.

(m) ADD-ON key—(Nonlocking) Depress to add an outside central office or PBX call to an intercom call (audio-only basis initially).

(n) PICTUREPHONE INTERCOM CONFERENCE KEY SYSTEM (CONF) key—(Nonlocking) Depress to activate conference circuit, and when required, to initiate and release leader override (inhibition of voice switching during a conference).

(o) PBX or CO LINE key—(Locking) Depress to gain access to PBX on CO lines (not normally part of the intercom).

(p) INTERCOM Key—(Locking) Depress to gain access to intercom.

3. DEFINITION OF TERMS

Video: The visual portion of PICTUREPHONE service.

Video Line: A central office (CO), PBX, or intercom line providing video and audio communications. If desired, the line may be used for an audio call.

Video Intercom Station: A station appearance (code) on the intercom which is equipped with a 12-button TOUCH-TONE® telephone set and a 2C Video Station.

Audio Intercom Station: A station appearance (code) on the intercom which is equipped with only a telephone set. This station may have its own individual code as an audio-only terminal or may be a lower priority audio appearance on a video station code. When associated with a video station code the audio station may be equipped with a 12-button TOUCH-TONE telephone set to allow it to establish video calls for video intercom station.

Audio/Video Arrangement: A bridging arrangement whereby a video station has access to a video line and an audio station has access to the audio portion only of the same line.

Controlling Station: A key telephone set used to initiate add-on transfer.

Priority: Refers to the line access precedence of one video station over other video stations sharing the same code and for line access precedence of a video station over an audio station sharing the same code.

Hold Feature: Permits calls to be placed on hold.

Direct Station Selection: Permits a station to be selected without dialing by depressing DSS key associated with that station.

Register Recall: Provides a means for dial accessing third and fourth parties (on an audio only basis) during an established call. If PICKS feature is enabled, added parties enter in the video mode.

Central Office or PBX Add-On: Allows an outside call (central office or PBX) to be added to an (in progress) intercom call.

Graphic Visor: A hinged mirror assembly on the front of the display unit which provides a means for transmission of graphic materials.

Paging Control Circuit: Allows connection to a customer-provided paging trunk.

◆ **Picks:** An intercom service which allows equipped stations to establish a voice-switched PICTUREPHONE Conference of up to four stations. A fifth (audio only) station can be added (as in the case of an attendant).

4. METHOD OF OPERATION

(a) *To Originate a Video Call (Video Intercom Station)*

- (1) Depress line key associated with intercom line. Depress ON button on 72A control unit (lamp on unit will light) or lift handset and listen for dial tone (white line lamp associated with line key is lighted).

- (2) Using TOUCH-TONE dial, depress number sign (#) and then the desired intercom number. Red line lamps are lighted at all appearances of the calling station code.

- (3) Position self in front of display unit. After dialing a video call, check image being transmitted by depressing VU SELF button on 72A control unit and adjust image by operating controls marked ZOOM and HEIGHT. Restore VU SELF button to normal. BRIGHT and VOLUME controls may be used to adjust incoming signals.

Note: Adjustments for size and position of distant party must be made by distant party.

- (4) When call is completed, depress OFF button on 72A control unit or hang up handset if off-hook.

(b) *To Originate an Audio Call (Video Intercom Station)*

- (1) Depress line key associated with intercom line. Depress ON button on 72A control unit (lamp on unit will light) or lift handset and listen for dial tone (white line lamp is lighted). Dial desired intercom number.

(c) *To Originate a Video Call (Lower Priority Audio Intercom Station)*

- (1) Depress line key associated with intercom line. Lift handset and listen for dial tone (white line lamp associated with line key is lighted).

- (2) Using TOUCH-TONE dial, depress number sign (#) and then desired intercom number. Red line lamps are lighted at all appearances of the calling station code.

- (3) When called party answers, the audio station has an audio only connection.

- (4) The called party may be placed on HOLD if desired. Red line lamp will wink.

- (5) Notify video station that call is established.

(d) *To Originate an Audio Call (Lower Priority Audio Intercom Station)*

- (1) Depress line key associated with intercom line. Lift handset and listen for dial tone (white line lamp associated with line key is lighted). Dial desired intercom number.

(e) ***To Transmit Graphic Material (Video Intercom Station)***

- (1) Depress line key associated with intercom line. Depress ON button on 72A control unit (lamp on unit will light) or lift handset and listen for dial tone (white line lamp associated with line key is lighted).

- (2) Using TOUCH-TONE dial, depress number sign (#) and then the desired intercom number. Red line lamps are lighted at all appearances of the calling station code.

- (3) Position material on desk directly in front of 1A display unit.

- (4) Open GRAPHIC VISOR by pulling outward on the bottom edge of the visor.

- (5) Depress VU SELF button on the 72A control unit and center the material under the visor. The set can be left in the VU SELF mode so both parties see the same image, or returned to normal so that the distant party image is returned to the 1A display unit.

(f) ***To Answer a Video Call (Video Intercom Station)***

- (1) In response to a distinctive audible signal and flashing red line lamp, depress the associated intercom line key and the ON button on the 72A control unit (lamp on unit will light). If speakerphone operation is not desired, the call may be answered by lifting the handset.

Note: Distinctive audible signal may be tone ringer, bell, or buzzer depending on the option selected by the particular station.

- (2) Position self in front of display unit. When necessary, check image being transmitted by depressing VU SELF button on 72A control unit and adjust image by operating controls marked ZOOM and HEIGHT. If image appears dark, adjust by rotating

control marked BRIGHT. Restore VU SELF button to normal; this returns distant party image to display unit screen.

- (3) When call is completed, depress OFF button on 72A control unit or hang up handset if off-hook.

(g) ***To Answer an Audio Call (Video Intercom Station)***

- (1) In response to an audible signal and a flashing white line lamp, depress the associated intercom line key and the ON button on the 72A control unit (lamp on unit will light). If speakerphone operation is not desired, the call may be answered by lifting the handset.

(h) ***To Answer a Video Call (Audio Intercom Station)***

- (1) In response to an audible signal and flashing red line lamp, depress the associated line key on the key telephone set and lift the handset.

- (2) Place calling party on HOLD and notify video station of call.

- (3) After video station answers call, hang up handset.

(i) ***To Answer an Audio Call (Audio Intercom Station)***

- (1) In response to an audible signal and flashing white line lamp, depress the associated line key on the key telephone set and lift the handset.

(j) ***To Add on or Transfer a CO or PBX Line to an Established Intercom Call***

Note: For this option, an intercom station (controlling station) must have direct access to a central office or PBX line via a line key on the key telephone set and must also have an add-on key associated with the central office or PBX line.

Incoming Central Office or PBX Call

- (1) In response to a distinctive audible signal and flashing red line lamp at the control station during an established call, place intercom call on hold, then depress associated central office or PBX line key to answer incoming call.

Note: If the central office or PBX party desires a connection with another intercom party, the existing intercom call may be terminated and another intercom call established after placing the central office or PBX call on hold.

- (2) Depress the add-on key. A 3-party audio conference and a 2-party video arrangement is established. The video portion of the call can be switched at the controlling station by depressing the line key associated with the video station desired. The video station set not selected will show a raster, but the audio connection is retained between all three stations. During this added-on condition, both intercom stations are held so that either station may leave the intercom call and return as long as the other station does not hang up.
- (3) To transfer the video portion of the central office or PBX call into the intercom, the control station must hang up. A video and audio connection is then established between the central office or PBX party and the remaining intercom station. After the control station hangs up, it may reenter the call on an audio only basis by depressing its associated CO or PBX line key. Video connections would be restored to the controlling station if the other intercom station hangs up.

Outgoing Central Office or PBX Call

- (1) To make a central office or PBX call from an intercom station (controlling station), first establish an intercom call with the intercom station, place intercom call on hold, then depress central office or PBX line key.
- (2) Using TOUCH-TONE dial, depress number sign (#) and then desired central office or PBX number.

- (3) When the distant party answers, depress the add-on key. The procedure is then identical to that of an incoming central office or PBX call.

(k) Direct Station Selection (DSS)

- (1) **For an audio call**, depress (for at least 1 second) DSS key associated with desired intercom station.
- (2) **For a video call**, depress number sign (#) on TOUCH-TONE dial then depress (for at least 1 second) DSS key associated with desired intercom station.
- (3) If a 2-station call (audio or video) has been established, either station (if equipped for DSS) may add-on third and fourth stations (audio only) by depressing (for at least 1 second) the DSS key associated with the stations to be added-on.

(l) Register Recall (RRC)

- (1) To add-on third and fourth stations (audio only) to an established 2-station intercom call (audio or video), depress the RRC key (for at least 1 second), wait for dial tone, and dial the intercom number for the third station. Repeat procedure to add on the fourth station.
- (2) To recall dial tone without hanging up (calling station) depress RRC key (for at least 1 second).

(m) Paging Control Circuit

- (1) To gain access to paging control circuit, dial the intercom station code assigned to the circuit. The paging control circuit answers automatically. No warning signal (audible ringback tone) is provided.

Note: Access to the paging control circuit is restricted on a per station option basis.

(n) To Originate a PICTUREPHONE Intercom Conference Key System Call (PICKS)

Note: When three or more stations are to be connected on a video basis, voice controlled video switching uses "last talker" logic. With

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this logic all conferees except the present talker see the present talker. The present talker sees the last talker. Unless leader override is employed, this logic applies to each video switching.

- (1) Depress line key associated with intercom line. Depress ON button on 72A control unit (lamp on unit will light) and listen for dial tone (white line lamp associated with intercom line key is lighted).
- (2) Using TOUCH-TONE dial, depress number sign (#) and then the desired intercom number. Red key lamps are lighted steady at all appearances of the calling station code. At called station, red key lamp flashes.
- (3) At called station, answer call by operating ON button on 72A control unit (lamp on unit will light). Red key lamp is now lighted steady.
- (4) At calling station, momentarily depress CONF key. Calling party will be seen on both display units until the called party causes a voice switch. At this time the calling party will see the called party.

Adding Additional Video Stations

Note: Up to four stations (including control station) or three stations and one PBX or CO line may be connected to the conference at one time.

- (5) At station originating conference, momentarily depress RRC key. Listen for dial tone. Then, using TOUCH-TONE dial, depress number sign (#) and then the desired intercom number.

Note: If any station set is equipped with an RRC key and the station party is involved in a PICKS call, the station party may operate the RRC key and add additional video stations to the conference as in Step (5).

- (6) At called station the line lamp will flash red. Answer call by operating ON button on 72A control unit (lamp on unit will light). Third party is automatically connected to conference on a video basis. Third conference

party sees conference station party who is speaking.

- (7) To add a fourth station to conference, at station originating conference, repeat Steps (5) and (6)

Leader Override

- (8) If a PICTUREPHONE conferee wishes to inhibit (stop) voice switching for any reason, the conferee momentarily operates CONF key.

Note: To ensure that conferee taking control will be seen by all other conferees, the conferee taking control must be the person speaking when the CONF key is depressed.

All other conferees then see the control station conferee; while the control station continues to see the last speaker.

- (9) To transmit graphic material at this time, see (e) (3) through (5).
- (10) To release control, the control station momentarily operates CONF key a second time.

Adding a Video PBX or CO Line

- (11) Station originating conference operates HOLD key. Red intercom line lamp will wink.
- (12) Depress line key associated with PBX or CO line.
- (13) Using TOUCH-TONE dial, depress number sign (#) and then desired central office or PBX number.
- (14) When the CO or PBX line (distant) party answers, operate the HOLD key, operate the INTERCOM key; then, momentarily depress the ADD-ON key. The distant party only will be seen by all intercom conferees regardless of who is talking. The distant party on the otherhand will see whichever intercom party is talking or was last to talk. The intercom line lamp at the controlling station will continue to wink.

(15) At the controlling station release the CO or PBX line key by operating the intercom line key. The intercom line lamp will change to steady red. If the present talker is one of the intercom conferees, he will see the distant party; other conferees, including the distant party, will see the present talker.

(16) When the distant party speaks, or at any time that it is desired to view the distant party, a controlling station may operate the CO or PBX line key, permitting all intercom conferees to view the distant party as in (14).

(17) Repeat Step (15) when an intercom conferee is speaking and step (16) when it is desired to view the distant party.

Release of Video Conference

(18) The video conference will release when all but one of the intercom stations operate the OFF button on their 72A control unit. The PBX or CO line will automatically release when the video conference releases. All lamps (conference, intercom, PBX, or CO line, etc.) will extinguish.¶