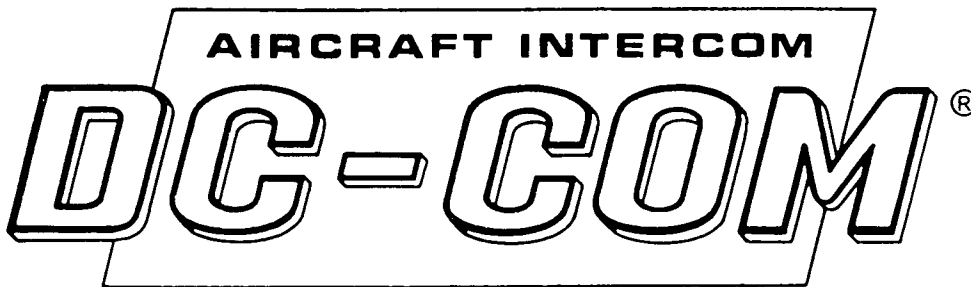


OPERATION AND INSTALLATION INSTRUCTIONS

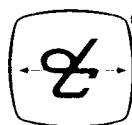


MODEL 200

Congratulations, you are among the over 600,000 quality conscious pilots that have purchased a product manufactured exclusively by David Clark Company Inc., Worcester, Massachusetts U.S.A.

DC-Com Model 200 Portable Aircraft Intercom is the second intercom produced in the DC-Com Series. Like the DC-Com 500, our panel mount Aircraft Intercom, the DC-Com 200 Portable Intercom is engineered to satisfy the communication needs of today's pilot.

This state of the art instrument provides freedom of communication by providing selected inputs and communication between pilot, copilot and passengers.



David Clark COMPANY
INCORPORATED

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INSPECTION

Unpack the equipment and visually inspect it for shipping damage. Report any such damage to your dealer. Inspect the contents to make sure each unit has the following items:

1. DC-Com Model 200
2. Operation and Installation Instructions (This document)
3. Warranty Card
4. Mounting kit P/N 40318G-04 consisting of:
 - 1 ea. bracket
 - 4 ea. #6-32 x 3/16" screws
 - 4 ea. #6 internal tooth lock washers
5. External Power Cord

Report any shortage immediately to your dealer or the David Clark Co., Inc., attn. Customer Service.

SPECIFICATIONS

DIMENSIONS

- 5" x 3.5" x 2.5"

WEIGHT

- 1.5 lbs.

POWER REQUIREMENTS

- External: 13 to 30 VDC at approx. 50 MA
- Internal: One 9 volt alkaline battery (NEDA 1604A) two used in succession. Life approx. 40 hrs. each

TEMPERATURE RANGE

- -30°F to +150°F

OUTPUT POWER

- 30mW/channel into 150ohm load

AUX INPUT

- Line level, approx. 200mVrms, stereo mixed to mono, impedance 1Kohm

AUX OUTPUT

- Line level set by volume control impedance approx. 100ohms

EXPANSION CONNECTOR

- Provides microphone, earphone, power and ground via RJ-11 modular plug

INSTALLATION

GENERAL

The DC Com-200 is a portable intercom and needs no installation as such. Although the intercom may be mounted with the supplied bracket mounting kit, it is only necessary to locate the unit so that its audio cord can be plugged into the plane's panel and so that the external power cord, if used, can reach an appropriate power source (cigarette lighter). A typical installation will position the DC Com-200 between the seats for convenient access by pilot and copilot.

MOUNTING

Because many mounting locations and surfaces are possible no fasteners are supplied for mounting the bracket to the aircraft. The bracket is provided with two no. 6 holes on 2-1/4" centers. The four 6-32 x 3/16" screws and lock washers are for mounting the bracket to the intercom. **Do not use longer screws.**

POWER SOURCE

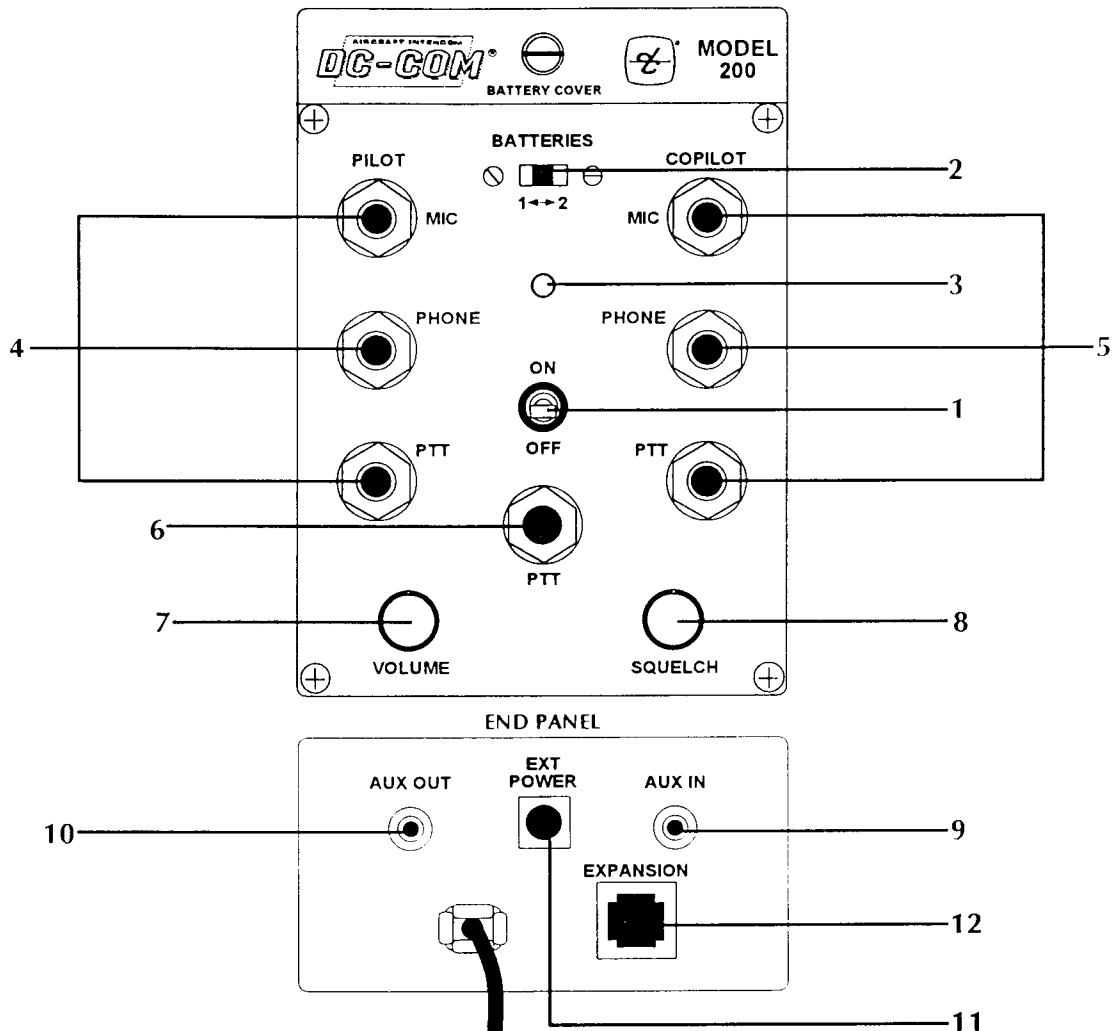
The DC Com-200 is powered from one of two 9V batteries supplied with unit. Each battery will provide approximately 40 hours of operation. The unit is also supplied with a power cord for use with aircraft or other DC source. Voltage range must be within the limits shown in the specifications. The cord is provided with a fused cigarette lighter plug. If necessary, this plug can be removed for hard wiring or an alternate connector; red wire is positive, black is negative.

MUTE JUMPER SETTING

As shipped, the AUX Input channel will mute -60dB with radio reception. If a lesser degree of muting is desired, a jumper plug is provided inside the unit which may be set to provide mute levels of -60dB, -40dB, -20dB, and -6dB. To change the mute level setting proceed as follows.

1. Remove 4 ea. screws from the bottom of unit, and remove the bottom plate
2. Remove 4 ea. screws holding the circuit board
3. Lift the circuit board out to expose the component side. Note: the circuit board is attached through a 15 lead jumper to the main board.
4. Locate jumper J3 and plug on the lifted circuit board.
5. Move the jumper plug to the desired setting as marked on the circuit board.
6. Replace circuit board and 4 ea. mounting screws.
7. Replace bottom plate and 4 ea. mounting screws.

PANEL CONTROLS/CONNECTORS



1. POWER ON-OFF/FAIL SAFE SWITCH

The toggle switch placed in the on position provides power from the selected power source (battery or external).

The toggle switch placed in the off position removes power from the intercom and provides fail safe operation by routing transmit and receive audio directly to headset.

2. BATTERY SELECT SWITCH

Used when Power/Status/Indicator light pulsates red to signal low battery. After switching to new battery, indicator light will return to pulsating green. Replace low battery as soon as possible.

3. POWER/STATUS INDICATOR

Steady green for external power operation, pulsating green for internal battery and pulsating red for low internal battery.

4. PILOT JACKS

Will accept the standard plugs (PJ-055 headset and PJ-068 microphone) from any general aviation headset and the microphone plug from a portable Push-To-Talk Switch like the DCC Model C10-15.

5. COPILOT JACKS

Will accept the standard plugs (PJ-055 headset and PJ-068 microphone) from any general aviation headset and the microphone plug from a portable Push-To-Talk Switch like the DCC Model C10-15.

6. PTT BUTTON

Provided for pilot transmission when a yoke mounted or portable PTT Switch is not used.

7. VOLUME CONTROL KNOB

For setting system volume level. Individual headset level can be adjusted using headset volume control.

8. SQUELCH CONTROL KNOB

Sets VOX threshold for voice activation of intercom for pilot and copilot positions.

9. AUX INPUT

3.5 mm stereo jack will accept signals from devices such as portable tape and CD players. AUX IN will mute with radio reception but not with intercom communications.

10. AUX OUTPUT

3.5mm monaural jack provides line level signal for driving a tape recorder, CVR, or other device.

11. EXTERNAL POWER INPUT JACK

A cord with fused cigarette lighter plug is provided.

12. EXPANSION JACK

Will accept the plug of the extension cord supplied with Model 200EX Expansion Module to expand the system to a four or six place intercom.

OPERATION

To place the DC Com-200 in operation proceed as follows.

1. Select power source; internal batteries or external. If using internal power, insert two fresh 9 Volt alkaline batteries (NEDA 1604A) into the battery compartment. Remove the battery compartment cover by unscrewing the thumb screw. Lift out and unsnap old batteries if present. Securely snap new batteries to the connectors and insert with snaps down into the wells on each side of the compartment. Replace cover.
2. Plug headsets and external PTT switches (if used) into the appropriate front panel connectors.
3. Plug the audio cord from the intercom into the pilot system jacks of the aircraft. Note: In order for the intercom's front panel PTT or a portable PTT to function properly the jacks that the intercom is to be plugged into must have the tip of the mic jack wired for PTT. To test for this configuration, plug a hand held microphone into the jack to be used. If the hand held microphone works in that location then the wire to tip is present and the intercom will function properly.
4. The system will operate on one 9 Volt battery for approximately 40 hours. Select battery 1 or 2 and turn power switch to ON. Continue to use the same battery selection for each flight until indicator light pulsates red, then switch to alternate battery for an additional 40 hours of operation.
5. The LED should light; steady green for external power, pulsating green for internal battery, and pulsating red for low internal battery. Battery should be replaced when the LED pulsates red.
6. Speak into the headset microphone and adjust the Squelch control to trigger the intercom audio circuits on speech but so that actuation does not occur with background noise. Clockwise rotation increases trigger sensitivity.
7. Adjust the Volume Control for a listening level that is adequate for all users. It is recommended that the volume be set at a high enough level so that each user can adjust their headset volume control to the proper level.

GENERAL OPERATING NOTES

1. Failsafe Operation - In the event of any failure of the intercom or its power source, the pilot's headset must be directly connected to the radio by setting the Power Switch to the OFF position.
2. The PTT Switch on the front panel keys the radio and enables the pilot headset only. Actuation of the panel or either portable PTT Switch isolates the user from hearing intercom audio. Actuation of any yoke mounted PTT will key the radio and enable the pilot headset only.
3. The Auxiliary input is a 3.5mm stereo jack that will accept signals from such devices as a portable tape or CD player. Stereo signals will be mixed to monaural. The AUX Input will be muted with radio reception but not with intercom communications.
4. The Auxiliary Output is a 3.5mm monaural jack that can be used to drive a portable tape recorder or other equipment. The AUX output is taken from the pilot's listen line.
5. Sidetone is provided by the aircraft radio, not the DC Com-200.
6. The Expansion jack allows the DC Com-200 to operate with as many as two or four additional headsets by connecting to one or two DCCI Model 200 EX Expansion Modules.