

AMPLIFIER & LOUDSPEAKER 11A (DORIC)

This instruction is distributed to appropriate Type 1 files)

1 GENERAL The 'DORIC' Amplifier and loudspeaker 11A) is a loudspeaking telephone attachment which can be added to existing handset telephone installations (except Internal Telephone System) to provide full, voice-switched, loudspeaking telephone facilities. Installation instructions are contained in A C5 B2011 and installation connexions are given in Diagram N 045.

2 DESCRIPTION Controls on the unit consist of:-

2.1 Rotary volume control To adjust the incoming level.

2.2 A red light emitting diode (LED) indicator, which is illuminated when the DORIC is in the 'Send' mode and extinguishes when the unit switches to 'Receive' mode.

2.3 Three 'Piano' -type keys. Their function from left to right is as follows:

2.3.1 Mute key - (Colour Yellow) Depression of this key will mute the microphone such that the distant party cannot hear conversation taking place in the vicinity of the DORIC. The key must be held depressed throughout the required duration.

2.3.2 On Key (Colour Green).

2.3.3 Off Key (Colour Red),

Table 1 follows

3 OPERATING INSTRUCTIONS There are two methods of operation as shown in Table 1

TABLE 1

	METHOD 1	METHOD 2
	Used when connected to:-Plan extensions Nos. 2, 2A and 105/107 (main) Keymasters 3 and 4. Extensions connected to 2/... and 3/... switchboards.	Used when connected to:-Plan extensions Nos. 1, IA. 4 and 105/107 (extn). Exclusive and shared service exchange lines:-switchboard extensions.
MAKING A CALL	Pick up the telephone handset and call the desired number. Press the "on" key. The indicator will light and remain illuminated except while the other party is speaking. The telephone handset will be disconnected but must not be replaced on its cradle. Adjust the loudspeaker volume to the level you prefer.	Pick up the telephone handset and call the desired number. Press the "on" key. The indicator will light and remain illuminated except while the other party is speaking. The telephone handset will be disconnected and may, if desired, be replaced on its cradle. Adjust the loudspeaker volume to the level you prefer.
ANSWERING A CALL	The call must be answered normally by handset and then transferred to the unit (see below).	Press the "on" key. The indicator will light and remain illuminated except while the other party is speaking. Adjust the loudspeaker volume to the level you prefer.
TRANSFERRING FROM HANDSET TO UNIT	Press the "on" key. The indicator will light and remain illuminated except while the other party is speaking. The telephone handset will be disconnected but must not be replaced on its cradle. Adjust the loudspeaker volume to the level you prefer.	Press the "on" key. The indicator will light and remain illuminated except while the other party is speaking. The telephone handset may, if desired, be replaced on its cradle. Adjust the loudspeaker volume to the level you prefer.
TRANSFERRING FROM UNIT TO HANDSET	Press the "off" key. Continue your conversation using the telephone handset. Replacing the handset will terminate the call.	Lift the telephone handset from its cradle and then press the "off" key. Continue your conversation using the telephone handset. Replacing the handset will terminate the call.

4 TECHNICAL CONSIDERATIONS The unit uses voice switching, techniques to prevent acoustic feedback or 'howl' when the apparatus is in use. The housing is designed to provide acoustic isolation between microphone, (which is an electret type situated behind the two slots in the front of the unit) and loudspeaker, (situated under the grill to the rear of the unit). The unit possesses omni-directional characteristics, and functions without the user having to be situated close to the microphone.

The unit employs circuitry which virtually eliminates speech clipping in normal use and also has a degree of tolerance to constant background noise without switching permanently to the 'Send' mode. However, to achieve good performance the usual requirements for room conditions still apply.

5 POWER Power for the DORIC is provided by a transformer which transforms mains voltage to 18 V a.c.

Should a fault report complain of 'unit not functioning' check the plug fuse to make sure the fuse is OK, then check the Output of the transformer with a Meter Multirange for the a.c. volts.

6 MAINTENANCE On-site maintenance of the DORIC is not recommended as components are mounted on a printed wiring board which does not facilitate convenient component renewal. Should a fault develop, the complete unit should be changed out, a fault label attached, and the faulty unit subjected to off-site repair.

7 SPARES Spare DORICS will be held at local section stocks.

7.1 Transformer No provision has been made to stock the transformer as a separate item. In the unlikely event that a fault develops on a transformer then the whole DORIC apparatus should be changed as each DORIC comes complete With transformer. However, at the time of transformer failure, it may be possible to exchange the faulty transformer for a satisfactory one from a returned faulty apparatus.

8 MISCELLANEOUS During trials of this apparatus a large percentage of 'faulty' units returned were found to be RWT indicating that customers were reporting faults incorrectly. Voice switched LST do not perform well on noisy lines, these lines tending to bias the apparatus into a receive mode and prevent, or severely clip, outgoing speech. If bad performance is complained of, check with the customer to determine if the line was noisy and, if possible, make a test call to confirm the fault. Poor acoustic room conditions will also degrade the performance of the unit.

9 QUERIES Maintenance queries should be directed to Regional Service Group who will, consult THQ/SvD/Sv5.3.2 as necessary.

Sv5.3.2

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