

1. GENERAL

1.1 Discriminating Ringing on S50 switchboards consists of a rapid interruption, i.e. instead of the normal 1 second on and 1 second off, the period is 1/3 second on and 1/3 second off.

1.2 The discriminating ringing source is provided as part of the tone set.

1.3 To provide the Discriminating Ringing facility on dial calls, two relays must be added to each switchboard connector and certain other modifications carried out.

2. DRAWINGS

A1879/S - 50 line PAX Type 2, Modifications for Discriminating Ringing.

3. EQUIPMENT

N129744B	Relay (EP)	- 1 per SW/BD Conn.
N129745B	Relay (DR)	- 1 " " "
T3301	Resistor P.O.No.9, 100 ohm.	- 1 " " "
T1818	Mounting, resistor	- 1 " " "
T3301	Resistor P.O.No.9, 100 ohm.	- 2 per disc. Ring. line
T3302	Resistor P.O.No.12,400 ohm.	- 1 per pre. Line Without disc. Ring.
T1818	Mounting, resistor	- As required for disc. Ring & pref. Lines.

4. MOUNTING

4.1 Modifications to switchboard connectors:-

Relay DR mounts in the left-hand lower position in the connector relay set.
Relay EP mounts directly above DR. Resistor R4 mounts with the existing resistors R1 and R2.

4.2 Individual line resistors:-

The resistors show in Figs. 1A and 1D of Drg. A1879/S mount in the "preference resistor" positions immediately to the right of start relay AS. One resistor mounting (T1818) will accommodate three resistors P.O. No. 9 or four resistors P.O.No.12.

5. WIRING

5.1 Modify each connector and provide a discriminating ringing feed in accordance with Drg. A1879/S Fig. 2.

5.2 Wire between the miscellaneous connection strip and the relevant line finder M terminals on the lines connection strip, as indicated on Drg. A1879/S.

6. COMBINATIONS OF FACILITIES

6.1 Certain restrictions apply to the provision of the following facilities when Discriminating Ringing (dial calls) is given to any line on the installation:0

- (a) Preference
- (b) Staff Call (Coded or Telemike)
with restricted access

6.2 These restriction are:-

(a) All lines given the Discriminating Ringing facility on dial calls are necessarily also given Preference and cannot be barred from access to Staff Call (Coded or Telemike).

See Drg.1879/S Fig. 1A

(b) Preference (without Discriminating Ringing) can be given, but lines given this facility cannot be barred from access to Staff Call. See Drg. A1879/S Fig. 1D.

(c) Lines not given either Discriminating Ringing or Preference can be given access to Staff Call or barred from Staff Call as required. See Drg. A1879/S Figs. 1B & 1C

7. TIE LINE WORKING

7.1 If either Incoming Preference Discrimination or General Incoming Preference is provided on tie lines on the installation when Discriminating Ringing is given to extensions, the value of resistor R1 in the tie line units (Drg. 94560/SW) will need to be changed, as follows:-

(a) If it is intended that the tie line calls incoming under Preference conditions are also given the Discriminating Ringing facility, then the value of R1 on the tie line unit must be 50 ohm (two 100 ohm resistors T3301 in parallel) as in Fig. 1A of Drg. A1879/S.

(b) if these call are not to be given Discriminating Ringing, then R1 on the tie line unit must be 400 ohm (Resistor T3302), as in Fig. 1D of Drg. A1897/S

8 DUD RINGING MAGNETO EXTENSION BELLS

The short ringing period obtained from Discriminating Ringing is likely to give a poor ring on loud ringing magneto extension bells. If this difficulty is experienced, full details should be sent to H.O.E.D.