P.O. TYPE 10 RELAY

Maintenance

operated relay has been developed from the 3000 10/13, having a 6-mil residual. type and differs in the following respects:-

(a) Combs are used to operate the springs, instead of lifting pins and studs.

(b) The comb bears directly on to the armature which, at this point, is given a 5° tilt of the lifting surface. Early versions of the armature did not have this tilt (see par. 4).

(c) A grub-screw-type residual is fitted to all relays, its diameter being larger than that on 3000-type relays.

(d) The armature back stop is domed and of larger diameter.

 $\bigstar(e)$ 12-mil springs are used.

(f) The insulation of the spring-set is suitable for 250V working. The comb relay will therefore replace the present interim standard 250V relay for currents up to 300 mA (see B 5182).

(g) The Type 10 relay is designed to mount on a 3000-type drilling, and will replace the 3000 type for applications requiring a long-life relay. A typical relay is shown in Fig. 1.

2. Coding.—The relay is coded 10/..., the number immediately following the 10/ being used to differentiate between individual designs.

3. Code labels.—The P.O. code number, followed by the residual value, is printed on a green label, signifying 12-mil springs, as in 3000-type relay

1. Introduction.—The P.O. Type 10 or comb practice. Fig. 2 shows the code labelling of Relay



★4. General adjustments.

The method of adjustment and values to be used for test and readjustment of the Type 10 relay are the same as those specified for the 3000-type relay and detailed in B 5144.

When the armature is refitted to the relay, it should be operated by hand 3 or 4 times to allow the operating combs to take up their normal working position. Only then should the buffered springs be checked for buffer block clearance.

All relays should now be fitted with armature having a 5° upward tilt at the points of contact with



FIG. 1. TYPICAL P.O. TYPE 10 RELAY

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the lifting combs (see Fig. 3). If, when adjusting a relay, it is found that the armature is without this tilt it should be replaced by one of the latest design bearing a figure 2 on its front face.

5. Miscellaneous.—Numbering of contact springs and lettering of coil tags are as shown in B 5144.

6. Tools.—Those listed in B 5144 are adequate for the adjustment of the Type 10 relay.

7. Replacement of parts.—Parts of any relay may be changed if found to be faulty. Reference should be made to B 5528 for the identification of piece parts and the requisitioning procedure.

References:—B 5144, B 5182, B 5528 (TPM2/3)



★FIG. 3. Armature with 5° tilt

END

TELEPHONES AUTOMATIC B 5145