

CLEANING OF TWO-MOTION SELECTOR AND MOTOR-UNISELECTOR BANK CONTACTS

[Maintenance Routine Instruction (M.R.I.) No. R 117]

★[NOTE:—As this Instruction has been completely revised, individual paragraphs have not been 'starred']

1. General.—This Instruction details the procedure to be adopted for cleaning the bank contacts of two-motion selectors of all types and motor uniselectors.

2. Precautions to be taken before commencing cleaning operations.

(a) Confirm that the selector is disengaged. Busy the selector or incoming junction to prevent interference with calls. If more convenient, an incoming junction may be patched to a suitable spare selector.

(b) On selectors fitted with Label-holders Nos. 1 or 2, slacken the retaining screw and withdraw the label-holder.

(c) On 2000- and 4000-type selectors remove the 'N' link from test jack Nos. 11 and 12 before removing the selector mechanism from the rack. The mechanism should be placed in a safe position, e.g. on top of an inspection platform or on a Stool No. 3 or Stand, Testing, No. 19.

3. Cleaning of bank contacts (including vertical marking banks). All the methods used for cleaning bank contacts are detailed in TELEPHONES, Automatic, H 5012, but the special cleaning methods should only be used if the normal cleaning methods prove to be inadequate, e.g. where tarnish on bank contacts is causing service difficulty. It is advisable to perform the cleaning operations starting at the top shelf of a rack. To minimize disturbance of dust into the atmosphere, especially when a rotary brush machine is to be used for cleaning the bank contacts, dusty banks and selector cradles should first be brushed out with a vacuum cleaner. A rotary brush machine should not be used for cleaning bank contacts having P.V.C. separators.

4. Lubrication of bank contacts after cleaning. Lubricate line bank contacts of pre-2000-type selectors in accordance with TELEPHONES, Automatic, H

5012. The following selector bank contacts must *not* be lubricated with oil after cleaning:—

(a) All banks of 2000- and 4000-type selectors.

(b) Private, meter and vertical marking banks at all types of exchange ('C' banks at Siemens No. 16 exchanges).

(c) All banks of director 'BC' switches and 'A'-digit selectors.

(d) Motor unselector banks.

(e) All selector banks provided with varnished-fibre insulation (early A. T. & E. Co. exchanges).

Selector bank contacts must not be over-lubricated; only a thin film of lubricant need be applied to the contacts.

5. Cleaning of wiper tips. After the banks have been cleaned, wiper tips should be cleaned either with a Duster, Selector, Cleaning held over the tip of a Screwdriver, Instrument, No. 1 or with Tape, Bank Cleaning, No. 1 used in conjunction with a Cleaner, Contact, No. 8A.

6. Check of bank fixings. Confirm that the fixings securing the banks either

(a) to the selector mechanism and bank pillars (pre-2000-type selectors), or

(b) to the bank cradle (2000- or 4000-type selectors) are tight.

If any fixings are found to be loose, all other bank bolts and screws on that selector should be checked for tightness since bank shrinkage may have occurred. All loose fixings should be dealt with in accordance with TELEPHONES, Automatic, B 5900.

7. Before restoring the selector to service check the wiper to bank alignment.

References:—TELEPHONES, Automatic, B 5900, H 5012 (TPM2/2)

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