## INSPECTION REQUIREMENTS

## SWITCHES

## 324, 325 AND 328 (CROSSBAR) TYPES

GENERAL EQUIPMENT REOUIREMENTS

## COMMON SYSTEMS

TABLE A - SWITCHES EXCLUSIVE OF OFF-NORMAL CONTACT SPRINGS


AN = Allowable Number of Defects in Sample.

TABLE B - OFF-NORMAL CONTACT SPRING ASSEMBLIES OF CROSSBAR SWITCHES (See Note 9)

## SELECTING OFF-NORMAL CONTACT SPRING ASSEMBLIES



HOLDING OFF-NORMAL CONTACT SPRING ASSEMBLIES

$A N=$ Allowable Number of Defects in Sample.

## SPOTTINESS TABLE

| Size of Subsample | 3 35 | 26 70 | 71 125 | 126 | 176 200 | 201 | 251 300 | 301 350 | 351 400 | 401 | 451 | 501 550 | 551 600 | 601 | 651 700 | 701 750 | 751 800 | 801 850 | 851 900 | 901 | 951 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SN | 2 | 5 | 4 | 6 | 7 | 8 | TO | 11 | 12 | 13 | 14 | 16 | 17 | 19 | 20 | 22 | 23 | 24 | 25 | 26 | 28 |

SN = Spottiness Number (Applying to Subsample).

Note 1: The lot and sample sizes for the inspection of the crossbar switch, exclusive of the off-normal contact springs, are stated in terms of the switch as indicated. The sample, however, will include from each switch, only five vertical units, five selecting magnets and associated centering springs, and the five selecting bars, exclusive of selecting fingers. For the sample of selecting magnets and centering springs, select either the upper or lower centering springs and selecting magnet associated with the individual selecting bar including an approximately equal number of "upper" and "lower" selections in the sample. For requirements applying to crosspoints, a total of ten crosspoints in the vertical units selected on each switch will be
included in the sample, a maximum of three crosspoints being taken from a single vertical unit. Ten selecting fingers associated with vertical units of the sample will also be included from each switch, a maximum of four being selected from a single selecting bar. The sample of switches selected from the lot should be distributed in such a manner as to be fully representative of the lot. A minimum equipment group subsample of three switches shall be included from each equipment group sublot of six or more switches. Where the number of switches in any equipment group included in the lot is less than three, include all switches of such equipment groups in the sample.

Note 2: For Lot Range A include all switches of the lot in the sample, selecting the same number of parts per switch as indicated in Note 1. In addition to spottiness tests for the sample quantities inspected, the following tests shall also be applied in determining whether additional inspection shall be required for a lot in Lot Range A. Where the lot comprises more than five switches, if the total number of defects found for any inspection item is in excess of $1 / 2$ the spottiness number corresponding to the sample quantity inspected (in terms of the "Basis for Counting Defects"), the uninspected portion of the lot shall be inspected completely for that inspection item. For lots of five switches or less, the individual switch shall be considered "spotty" for any inspection item if more than two defects are found on it for that item and the balance of the switch shall be inspected for that item.

Note 3: Except for switches mounted and wired during installation, inspection for the crossbar switch may be limited to the items designated "SI" (Selected Item). Extension of inspection to the remaining items for lots in Lot Range A including those applying to the off-normal features shall be made only where more than $1 / 2$ the SN (dropping fractional parts and in no case in excess of the AN in Lot Range B) corresponding to the number of parts inspected is exceeded for each of the respective selected items. For lots in Lot Ranges B to K , inclusive, the extension shall be made only where the AN is exceeded for both of the selected items.

Note 4: No inspection need be made for items 16 and 26 unless the testing results indicate that the switches do not satisfactorily meet the electrical requirements. Allowable defect numbers are provided for items 16 and 26 for use in case such inspection is required.

Note 5: For each type of defect recorded, sufficient additional inspection shall be made to insure the elimination of the irregularity in the equipment involved.

Note 6: From each switch of the sample the selecting off-normal contact springs associated with either the upper or lower selecting magnet of each selecting bar will be included in the sample, an approximately equal distribution being maintained between "upper" and "lower" contact springs.

Note 7: From each switch of the sample only five holding off-normal units exclusive of balancing springs will be included in the sample.

Note 8: Where the allowable defect number for inspection items 30 and 38, "Straightness of Spring," is not exceeded, correction of defects for these items may be omitted. Where the allowable defect number is exceeded, the case shall be reviewed with the operating company to determine the corrective measure to be taken.

Note 9: The holding and selecting off-normal units of the crossbar switches, exclusive of centering and balancing springs, will be treated separately from the other switch features and from each other for inspection purposes. For the determination of sample sizes, the lot sizes will be considered as the total number of switches in the office equipped with holding off-normal units and the total number equipped with selecting off-normal units, respectively. The samples shall be selected from the lots so that each equipment group subsample is proportional to the size of the corresponding sublot, except that a minimum of five switches (or all switches where the equipment group sublot contains less than five) from each equipment group sublot will be included in the sample.

For detailed explanation and use of tables, refer to Section 800-668-180.

## reasons for reissue

1. To add inspection item $13(\mathrm{~b})$ and to change the lot tolerance per cent defective for electrical requirement from 2 to 3 per cent to agree with other apparatus tolerances.
