

Bulk Type Bushings

INSTRUCTIONS

GENERAL DESCRIPTION

The standard bulk type bushing consists of a single piece porcelain with a solid stud lead through the center. There is a micarta insulating tube between the stud lead and the porcelain. The porcelain is cast with rain sheds and a mounting collar which fits over the gasketed mounting ring on the transformer cover.

Bushings of this type are used on windings for 8.7 kv. and below. Previous to 1933 they were used on 13.8 and 23 kv. windings.

Some of the older bulk type bushings have an insulated cable lead instead of a solid stud lead.

ASSEMBLY

When assembling this type of bushing on the transformer cover, care should be taken to prevent breaking the collar below the rain sheds, where the gasket seal is made. Two gaskets must be used, one above the collar and one below. The lower gasket is a seal between the porcelain and the transformer cover, while the upper gasket acts as a cushion between the porcelain and the clamping piece. When tightening down the clamps, there should be no pressure contact between metal and porcelain. The nuts should be tightened gradually all around until both gaskets are evenly compressed.

MAINTENANCE AND REPAIR

The bushings should be inspected periodically for broken or cracked porcelains, and faulty gaskets. Power factor tests need not be made, as such tests will not show defects in the bushing.

For all bulk type bushings for 6600 volts and above the exposed metal parts below the cover should be under oil.

When porcelains are damaged, replacements may be made in the field by ordering new porcelains and gaskets. When other parts are also damaged and need replacement a complete bushing should be ordered from the factory. Reference to the stock order and the serial number of the transformer should

be made when ordering spare parts or complete bushings.

HANDLING AND STORING

Care must be taken in handling not to crack the porcelain or damage its surface. Some of the older bulk type bush-

ings have an insulated cable lead instead of a solid lead and care should be taken to prevent damage to the cable insulation.

Spare bulk type bushings should be stored in a clean dry place.

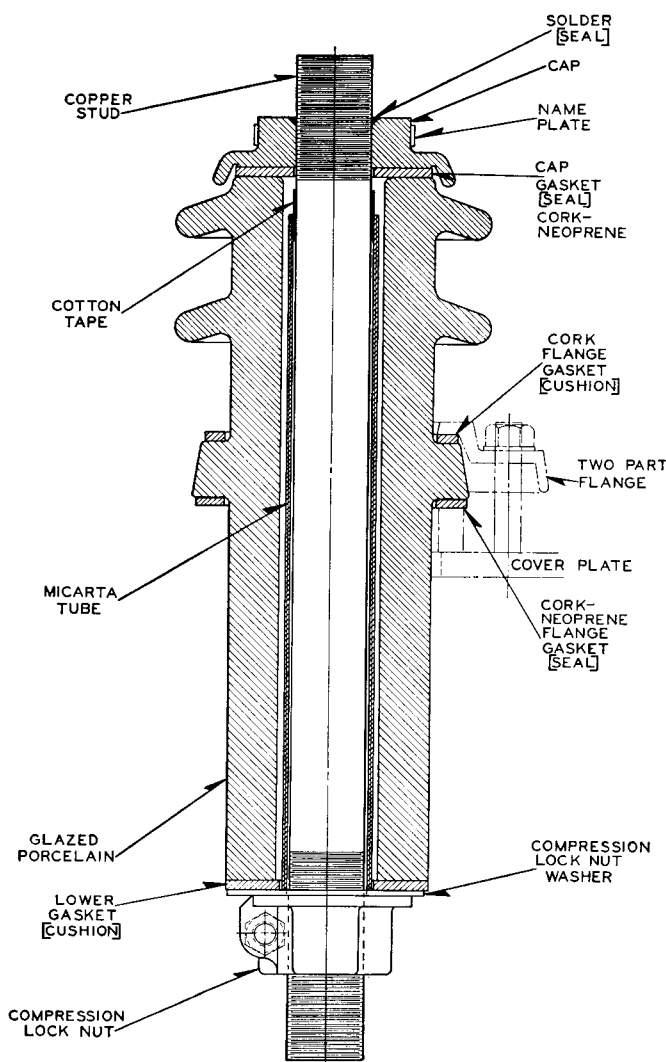


FIG. 1—SECTION OF BULK TYPE BUSHING