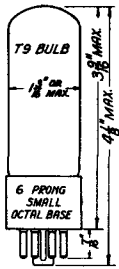


RESISTANCE TUBES
FOR BATTERY OPERATED
TWO VOLT TUBE RECEIVERS

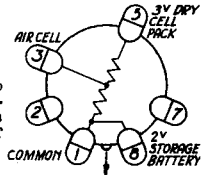
Octal Base Glass Bulb



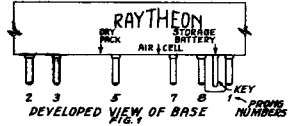
The series of resistance tubes, NB-1 to NB-8, is designed for two volt tube receivers having filament current drains of 300 to 720 milliamperes, in steps of 60 milliamperes.

RATINGS

Type	Filament Current Drain
NB-1	300 ma
NB-2	360 ma
NB-3	420 ma
NB-4	480 ma
NB-5	540 ma
NB-6	600 ma
NB-7	660 ma
NB-8	720 ma



BOTTOM VIEW OF SOCKET



The NB tubes have one common tap; one short circuiting tap, for use with a 2 volt storage battery; one resistor tap, for use with an air cell; and one ballast resistor tap, for use with a 3 volt dry cell pack. The curve on the accompanying sheet shows the typical relation between filament voltage and applied voltage, using the tap for dry cell pack.

The resistors in the NB tubes are operated in air, in a sealed container and the moderate ballasting action obtained when the tap for dry cell pack is used is due only to the change of resistance with temperature of the wire used. These resistors operate at a relatively low temperature and their resistance characteristics are permanent if the rated nominal current is not exceeded, so that the NB tube should not need replacement because of change in characteristics during life.

The NB tubes are stamped with locating arrows marked "Storage Battery", "Air Cell" and "Dry Pack" on the base of the tube, as shown in Fig. 1. If a reference mark is placed on the chassis mid-way between pins #1 and #8 and the socket wired, as shown in Fig. 2, a special socket with three keyways or a special socket with the keyway drilled out may be used to connect the battery to the proper tap. In either of the above cases the arrow corresponding to the type of battery used should be lined up with the reference mark. A terminal strip may also be provided for connecting the filament battery, to the proper tap of the NB tube. In the latter case, the tube is left fixed and the filament battery is wired to the proper point on the terminal strip.

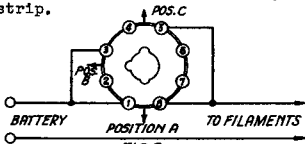


FIG. 2
BOTTOM OF SPECIAL SOCKET

TYPE OF BATTERY	PLACE LOCATING KEY IN
2 volt storage	Position A
Air Cell	Position B
3 volt Dry Cell Pack	Position C

TYPICAL BALLASTING CHARACTERISTIC CURVE
NB RESISTANCE TUBE
3 VOLT DRY CELL CONNECTION

