

BC-645-A – IFF Transponder, 1942



[Photo gallery.](#)

[Diagram](#)

Airborne IFF transponder operating from 470 to 493.5 MHz. About 5 W output power. Probably this set never became operational, being superseded by models operating around 1200 MHz. Also known with its Navy designation, ABA.

Remarkable the use of vacuum sealed resonating circuits.

One doorknob tube, 316A or 703A, as power RF oscillator. One 955 acorn as local oscillator and one more as mixer in the receiving section.

The unit above is unused, manufactured by General Electric to a 1942 order. It came still in its original sealed packing.