



TRADE MARK

# Broadcast Receivers in Kit Form

The "Pre-Selector", in Chassis and Cabinet Models; A deluxe Outfit  
Using Screen-Grid Tubes



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## The Pilot "Pre-Selector" Broadcast Receiver

The Pilot "Pre-Selector" is a deluxe broadcast receiver of the latest and most advanced design and embodies numerous features found in factory built sets costing twice as much. It is supplied only in kit or "knock-down" form for home assembly by the individual purchaser.

This receiver obtains its name from its use of a "band-pass" or pre-selecting circuit ahead of the radio-frequency amplifying system, which comprises two tuned stages employing A.C. screen-grid tubes of the P-224 type. The band-pass arrangement consists of a pair of tuned circuits loosely coupled to each other. The inductance and capacity constants are so proportioned that extremely sharp tuning is obtained without side-band cutting. Thus the tone quality of the set is not injured in any way. A station covers about three degrees on the dial and disappears sharply on either side of this narrow adjustment. There are no weak "hangover" signals to cause interference with stations on neighboring wavelengths. The set is provided with a small switch, by means of which the band-pass circuit can be adjusted most advantageously to the size of the particular aerial used in any location. The sensitivity is of such high order that the Pre-Selector, in most cases, works perfectly with an indoor aerial only fifteen or twenty feet long, or with an outdoor aerial not exceeding forty or fifty feet.

The R.F. amplifier feeds into a screen-grid detector, which is resistance-coupled into a straight 227 audio stage. The latter in turn works into a push-pull stage using two P-245's. This combination gives the Pre-Selector unrivaled selectivity, sensitivity and tone quality. Unlike many other receivers of the screen-grid type, it retains its high quality of reproduction at very low and at very high volume levels. When used with a good dynamic speaker, it will furnish signals loud enough to be heard all over a small dance hall or other public place. For all ordinary reception in the home, the volume control can be kept at a low setting and the reproduced voice or music will be clear of hissing or other background noises. The audio amplifier has sufficient capacity for two speakers of the dynamic type or from three to five speakers of the magnetic type.

The standard kit includes all the parts required for the construction of the receiver; all the necessary nuts, bolts, washers, wire, spaghetti tubing and special hardware fixtures are provided. The parts are intended for mounting on a formed and drilled aluminum foundation unit or chassis, which already has a fully assembled and wired power pack mounted permanently in place at the left end. This power pack is identical with the K-112 unit shown on page 7 of this catalog.

As all the holes are already drilled, the receiver is easily and quickly assembled, the only tools required being a screw-driver, a Spintite wrench, a pair of pliers and a soldering iron. Many people without previous radio or mechanical experience have had no difficulty in putting the outfit together and in making it work from the start. A full size blueprint, showing all the wiring, is included with the kit and this makes all the assembly and wiring operations plain and unmistakable. Because of the design and arrangement of the chassis, the completed set has that commercial, businesslike appearance not usually achieved in home-built receivers.

There are two Pre-Selector Kits, the K-126 and the K-128. The K-126 is the plain chassis model and includes all the necessary parts but does not include the cabinet. The completed chassis measures 18½ inches long, 11¼ inches deep and 6¾ inches high, and will fit in most 7-by-18 inch cabinets and consoles. It may also be fitted into a bookcase, a closet or any other special location. The K-128 kit includes this same complete chassis and also a handsome walnut-finished metal cabinet of the table type. This cabinet measures 19½ inches long, 12½ inches deep and 9 inches high. Its front is already drilled for the tuning dial, the volume control and the power switch. The top is not fastened down and may be removed in an instant, if the owner desires to inspect the chassis. The back is cut with a number of horizontal louvers, which provide adequate ventilation to dissipate the heat generated by the tubes.

The following Pilotron tubes are required for the Pre-Selector but are not supplied with the kits: three P-224's, one P-227, two P-245's, one P-280. The Pre-Selector was designed particularly for Pilotrons and we recommend that these tubes be used.

Complete Pre-Selector kit, chassis model.

(for 115 volts, 50-60 cycles A. C.)—No. K-126 ..... Code: YEADZ \$90.00

Complete Pre-Selector kit, cabinet model.

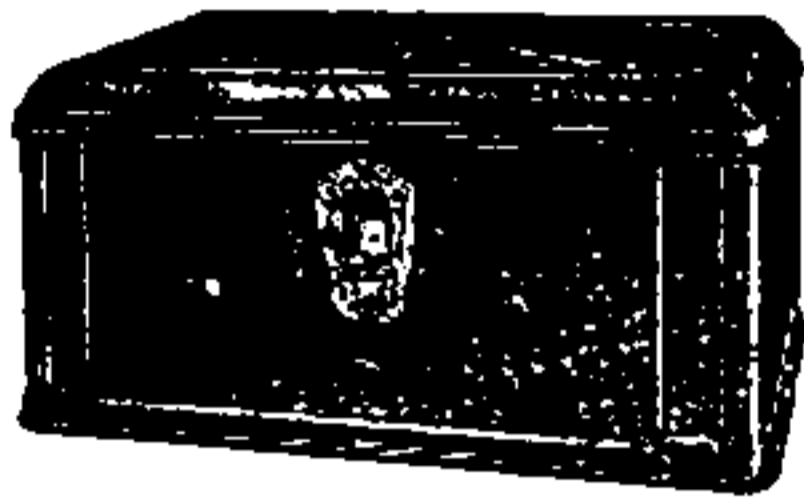
(for 115 volts, 50-60 cycles A. C.)—No. K-128 ..... Code: YIAMP \$98.50

Complete Pre-Selector kit, chassis model.

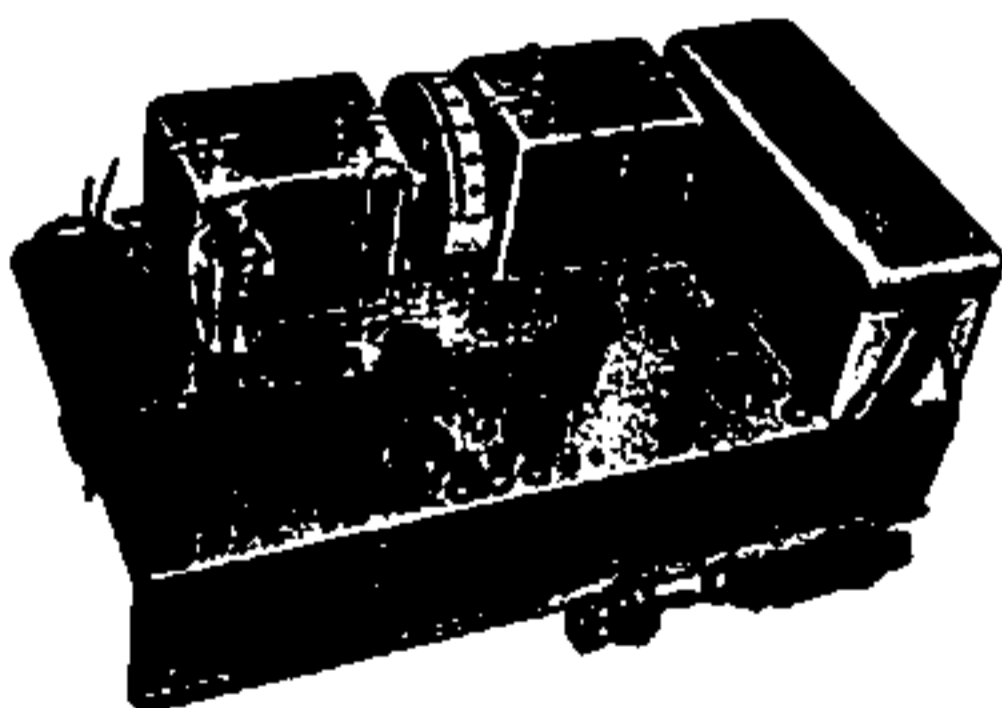
(for 220 volts, 50-60 cycles A. C.)—No. K-126A ..... Code: YBGOO \$90.00

Complete Pre-Selector kit, cabinet model.

(for 220 volts, 50-60 cycles A. C.)—No. K-128A ..... Code: YBDBE \$98.50



A finished "Pre-Selector" made from a K-128 kit.



Back view of the "Pre-Selector" chassis, with the detector tube in place.