

# Telecommander Revamps Its Hard Tube Receiver

■ An improved model of the E.C.C. 27¼ mc. single hard-tube receiver has been announced by American Telasco Ltd., American representatives for this well-known R/C line. The No. 951B supersedes the previous No. 951A, and is equipped with the Telecommander P100 polarized relay (which may also be purchased separately).

Basically the new model is pretty much like the earlier one, but a few improvements have been made, in addition to use of the much sturdier relay. All connections to the receiver, including that to the antenna, come out to six metal pins, and a six-prong socket is furnished for the battery leads. Since the socket will go on the pins in either of two directions, red dots are painted on the set and the socket, and should be lined up before snapping the socket in place.

All parts of the receiver are attached to a molded bakelite "chassis"; this plate has a hole through which the tube projects. A strong protective bakelite cover fits over the works, and is held on by four corner screws, which also hold hooks useful for suspending the receiver by rubber bands. There are two coil forms molded integral with the top plate, and these have been strengthened considerably over those in the earlier model.

Adjustments for tuning and sensitivity are made by means of threaded slugs

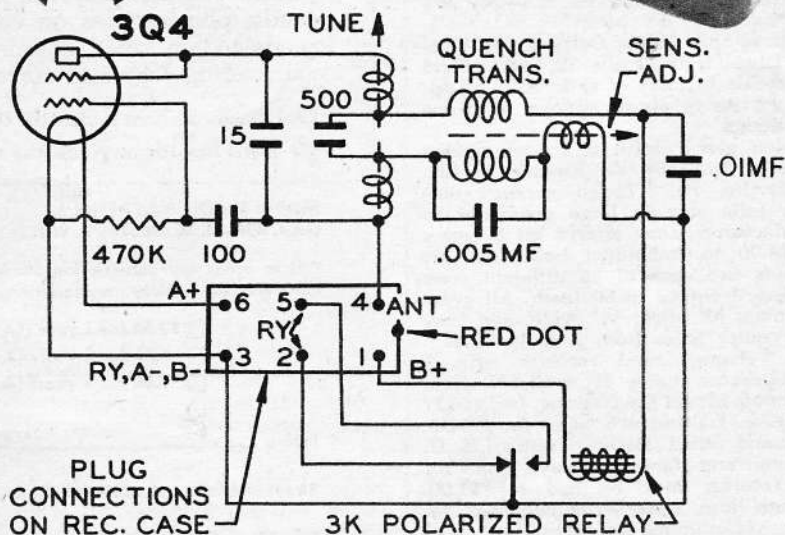
which project through the top of the case on the opposite side of the tube from the connection pins. The slugs are waxed so that they will hold their settings regardless of vibration. These are all the adjustments to be made on the receiver; the relay comes already set to operate at 2.2 ma. and release at 1.8 ma., and should not require readjustment. In fact, it is wise not to open up the set at all, for the manufacturer's guarantee is voided if the cover is removed.

The receiver is intended for use with 60-90 V., and like most hard tubers, will be found somewhat more sensitive with the higher voltage; however, sensitivity was found to be adequate when used with the standard 67½ V. battery. Specifications show the currents obtained at this voltage and with a weak signal. With 90 V. on the plate, the idling current was about 1.4 ma. higher than shown, but the on-signal current was only .2 ma. higher. With a strong signal, the on-signal currents were both .2 ma. lower.

Since both contacts of the relay are brought out to connection pins, the receiver may be used for both escapement or proportional controls. The makers advise the use of an arc suppressor which may be connected externally; a 50 ohm resistor and a .1 mf. condenser may be connected across points 3 and 2, 3 and 5, or both, as required by the control system. (Continued on page 82)



American Telasco's 951B Telecommander 27.255 mc. receiver for radio control features 3Q4 tube circuit and self-contained P-100 sub-mini relay.



# Telecommander

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The Telecommander No. 951B receiver is available only in finished form, and is widely distributed through hobby shops. It comes complete with tube, relay, six-pin connection socket, battery connection wire, test meter plug and socket, and a 3 ft. length of antenna wire. Also, of course, complete instructions are furnished.

*Specifications.* #951B receiver; single hard tube type using 3Q4 7-pin miniature tube. Overall size including tube— $2\frac{1}{2}$ " x  $1\frac{1}{2}$ " x  $1\frac{3}{8}$ ". Tube projects 1" above top of case. Two controls (for sensitivity and frequency) project from top of case, as do six connection pins. Weight with tube—2.96 oz. Antenna length from pin 4 on receiver—no greater than 3 ft.; may have to be reduced in some installations, such as in boat, or antenna series condenser used.

Power requirements: A— $1\frac{1}{2}$  V. at 100 ma. B—60-90 V. With  $67\frac{1}{2}$  V., current drain on weak signal was 3.3 to .6 ma. Lightest possible power supply—about 4 oz. (two pencells in parallel and two Eveready # 413 or equiv. 30 V. batteries in series). Heavier batteries such as medium flashlight cells and Eveready #430 or equiv. are recommended.