

SINGLE CHANNEL RIGS HIGHLIGHT CHANGE IN ECKTRONICS OFFERINGS

■ No longer making multi-channel reed equipment, Ecktronics (Santa Ana, Calif.) is concentrating on enlarging its single channel line. Latest units include Pacesetter tone transmitter, Courier relayless receiver, Translator compound escapement, and a package deal for all three. Newest of all is the Relayer receiver, which has circuit much like Courier, but includes sub-min relay and neat plastic case.

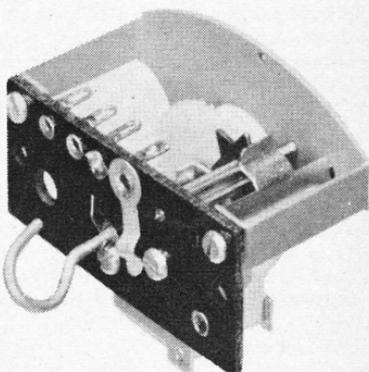
Transmitter Features. Housed in a gold-anodized aluminum case, this 27-mc Pacesetter utilizes a 3A5 tube as oscillator-doubler, and a unique neon-tube multi-vibrator tone generator, with a transistor modulator. The RF circuits are conventional, but all parts are mounted on a P.C. plate; three tuned circuit inductances are printed thereon. Capacitive antenna coupling is employed.

The AF oscillator is a bit unusual; one of the two neon tubes visible through a grommet in the case front, acts as a keying indicator check for the B batteries. It won't light if the batteries are too low.

A metal shield prevents the batteries from shifting, or from riding up against the switches or electric parts of the P.C. plate.

The case is 8 x 5 3/4 x 3" thick; 3' antenna is required (not supplied—use 3/32" music wire).

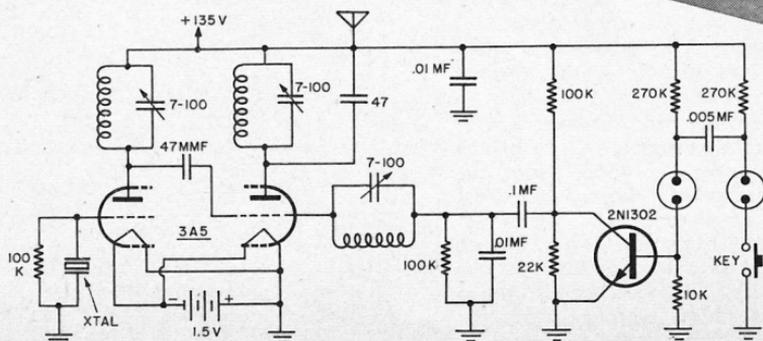
Transmitter Electrical Characteristics. Requires 220-ma from 1 1/2 volt A battery—Eveready 742 or equiv. B battery drain is 16-ma from 135 volt battery (two Eveready 467's in series) with key up, less with tone going out. Maker guarantees 100% modulation. A three to 5" antenna may be substituted for short range tuning or shop tests. Normal crystal supplied produces 26,995-mc output, may be replaced by unsoldering.



Courier rcvr and Translator.

Receiver Features. Relayless Courier utilizes four transistors. Built on a fiber-glass epoxy P.C. board, 1-13/16 x 1-3/16 x 3/4" thick, weighs 0.85-oz. No case supplied.

Receiver operates an escapement of 8 to 10 ohms, is temperature-compensated for normal conditions. A 12" antenna, sufficient in most cases, can be extended to 30" for longer range, as might be required for large planes. Receiver will work with most tone transmitters; like most such units it does not have a sharply tuned filter.



Receiver Electrical Characteristics: Operates on 3 volts (two pen light cells, or larger), draws 3-ma with no signal, 340-ma when connected to the Translator escapement with tone signal tuned in. Same battery works receiver and escapement.

Relayer Receiver. Circuit and parts much the same as Courier, but intended for systems that require relay-type receiver. P.C. plate wider and longer than Courier, includes sub-min relay and arc suppression for both contacts. In sturdy plastic case; weighs 1.8-oz; $2\frac{1}{8}$ x $1\frac{5}{8}$ x 1" overall. Total current from 3 volt battery averages 4-ma with no signal, rises above 80-ma with strong tone signal. Pulses very well.

Translator Escapement. Compound style unit provides single neutral, right and left, third position that can be linked for kick-up elevator. Linkage arms supplied for torque rod attachment to both rudder and elevator. Unit has electrical contacts that allow "quick-blip" engine control of a second escapement, even when used with relayless receiver such as Courier. Measures $1\frac{7}{8}$ x $1\frac{1}{4}$ x 1"; weighs one ounce; 8 ohm coil resistance.

Summary. All units neatly constructed; receivers and escapement packaged in plastic cases, transmitter in heavy corrugated box. Individual instruction sheet packed with each. Ecktronics Plane Prompter is a package set-up that includes Pacesetter, Courier, Translator, two-piece plated antenna (not included with separate transmitter), slide switch, plug and connector, hex tuning wand, hookup wire and instruction book. Gives everything needed for single channel rudder installation at \$5.60 savings. Well-written, illustrated instructions tell how to get license, install and test parts in your model, how to fly rudder plane, how to add motor speed control via Ecktronics Enginac escapement.