

be seen from the accompanying circuit, very few components are required in the set. Tube and transistors are direct-coupled without need for transformers or even coupling condensers.

The parts are attached to a printed circuit plate, and around the outside goes a protective aluminum sleeve open at the ends. The flat back of this sleeve may be cemented to foam mounting rubber in your model. The sensitive relay is mounted near one open end, so is handy for such service work as cleaning points.

Due to the low filament current of the tube, a single pencil of the smallest size will give quite a long useful life. Because only 22½ volts B power is required, the set should find much use in Half-A and even smaller models.

It comes to the buyer with attached antenna, and with all relay connections brought out in a separate cable from the battery leads. Total antenna length should be 20 to 26", but it is not at all critical.

Care should be used when connecting the batteries as the connections are a bit unusual. The meter is normally put in the B minus lead, in which position it reads only the current through the relay. It can be put in B plus, and here will read total receiver current. In any case, as with most sets that use a tube and transistor, a DPST on-off switch is required.

The Sensitivity control is operated somewhat differently from those normally encountered on R/C receivers and the set is not particularly sensitive to hand capacity. There is no quench transformer or coil of any kind in the Spacemaster, though the tube does, of course, operate in the super-regenerative manner.

A hex-type tuning stick is required for the slug core in the tuned input circuit, rather than a screwdriver. This receiver will naturally cover the entire tuning range from 26.995 to 27.255 mc, to take in all six R/C spot frequencies.

Specifications: Spacemaster Mk I receiver for 27 mc. Uses one XFY-34 tube and two RCA 2N408 transistors. Variable controls for tuning and Sensitivity. Latter adjusted by tiny potentiometer. Two cables come from set, one for batteries, other for all relay leads. Overall size is 2-5/16" x 1½" x 1-5/16" high. Weight is 1.65 oz. Antenna length non-critical—20 to 26".

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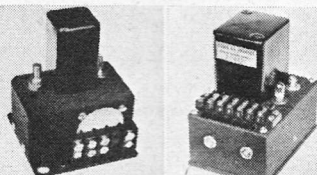
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Battery Requirements: A supply, 1½ volts at 25 ma—can be single sub-min pencil. B supply, 22½ volts. Total receiver idling current about 1 ma; with strong signal total is about 5 ma. Relay current about .6 to 4½ ma.