

—TELERADIO APOLLO SIX—

ALTHOUGH the name Teleradio is, perhaps, first thought of in connection with do-it-yourself r/c constructional kits, they have always supplied ready to use items, and their Apollo Six unit comes into this category. It is very realistically priced and, by virtue of the fact that the receiver is designed to accept add-on i.c. decoder stages, one can build up from a basic 2-function receiver (the transmitter starts off as a full 6-function unit) in stages to 4, or even 6, functions. This simple modification is easily performed, and the harness extended when additional servos are purchased.

The unit supplied for test had HB Precision sticks and Teleradio/Futaba FP S2 linear output servos. It can, optionally, be supplied with MacGregor stick units and Teleradio/MacGregor servos, or Teleradio/SLM servos. From this it is obvious that the Apollo Six is typical in size of today's outfits and hence suitable for use in a wide range of models.

A plug-in crystal facility is a feature of this outfit, it being supplied with one pair, and others on all the standard frequencies being obtainable as required. The crystals in transmitter and receiver are readily accessible. A charger is available as an optional extra, the harness to suit this being supplied with the outfit.

TRANSMITTER

Although the case is quite narrow, it has adequate depth to balance the really stout, long, centre-loaded, aerial. This is of Teleradio design and has a slug-tuned coil set for maximum performance by the manufacturer.

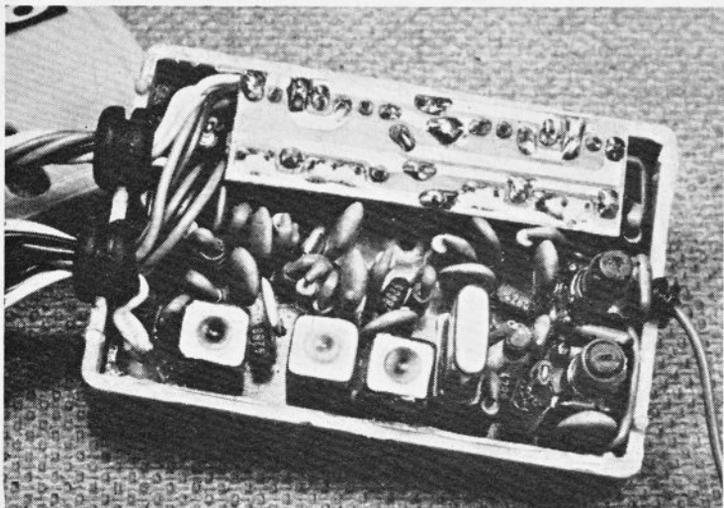
The case is vinyl covered aluminium, of folded construction, and the back is secured by machine screws, which enter tapped bushes. The electronics are all discrete, built on a printed circuit board which is freed for inspection on removing the stick bezels and switch. Set-up trim is done on the main pots.

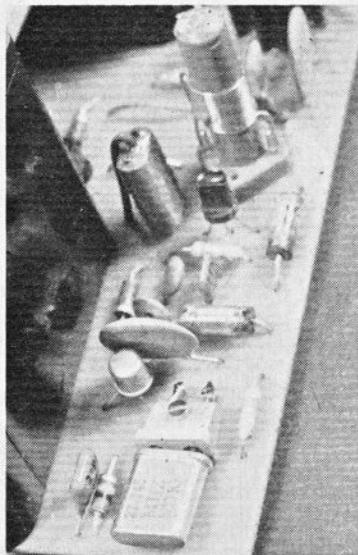
Layout is orthodox, with trims on the inner and lower edges of the main sticks. Auxiliary levers are located at lower centre, and there is a panel mounted output meter centre top. A two-pin socket is located in the bottom of the case and plastic feet are fitted to keep it clear of the ground.

Size: 6½ x 6¼ (high) x 2½ in. Sticks project 2 in. and aerial 9¼ in. retracted—extending to 61 ½ in.

Weight: 2lb 9oz

Operating Voltage: 9v.





RECEIVER

As we have said, this is obtainable in 2-6 uncton form. The basic 2-function unit is built on a fibreglass-based printed circuit board, which also carries the i.c. which forms the decoder. A 1/4 in. wide sub-board carries additional i.c.'s and harness wires, for function extensions up to the maximum of six. The receiver circuit has a band-pass front end, and double AGC for high noise rejection. The unit is screwed into a strong plastic case, the halves of which are cemented together.

The harness exits via two rubber grommets and is divided to serve two block connectors—one for the three main fuselage servos plus one auxiliary function, and the other for aileron and the second auxiliary. The switch is wired into the power cable and one disconnects the battery plug for charging. Both the switch and the block connectors are bonded to the cables with silicon compound.

Size: 2 3/4 x 1 1/2 x 7/8 in. Harness 6 1/2 in. long.
Weight: (with harness and switch) 2.5oz.

SERVOs

The Teleradio/Futaba servos have twin linear output and are lug mounted on rubber grommets. They are fitted with Copal motors and the discrete amplifier is partly encapsulated and foam padded. There is good resolution and the units are typically fast and powerful.

Size: 1 3/4 in. long (plus 1/2 in. lug each end) x 1 1/2 in. (plus 1/8 in. over output arms) x 1 1/2 in. wide. Cable 6 1/2 in. long.

Weight: 2oz.

Throw: 1/2 in. plus 1/8 in. trim.
Transit time: typically 0.7 second.
Power: typically 3lb. plus.

POWER PACK

A set of flat disc Deac cells of the 500 DKZ type are enclosed in a two piece square plastic case, which is bolted together. A 3-wire cable exits at one corner.

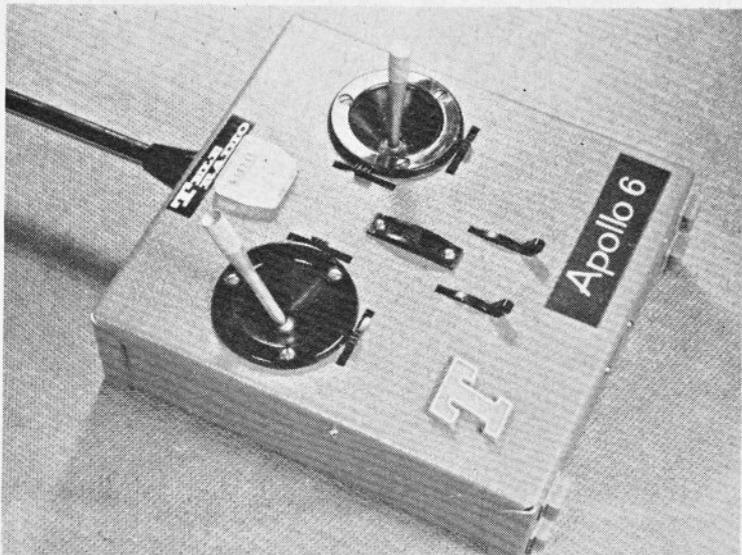
Size: 1 1/2 x 1 1/2 x 1 1/2 in.
Weight: 4.3oz.

FLYING WEIGHT

Four function: (with Teleradio/Futaba servos) 14.8oz.

MANUFACTURER AND SERVICE CENTRE

Teleradio Electronics, 325-327 Fore Street, Edmonton, London N.9.



Crystal socket at edge of Tx. board shown left. Below: Power pack, harness detail and socket in base of the transmitter. Bottom: the tightly packed amplifier in the servo.

