

The Creep

A FASCINATING
ROBOT VEHICLE

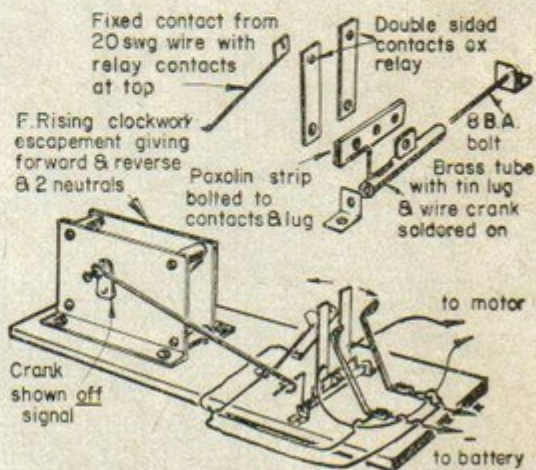
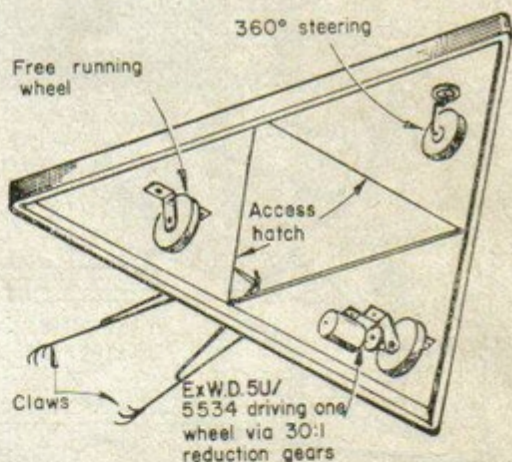
By T. R. BRIDGE

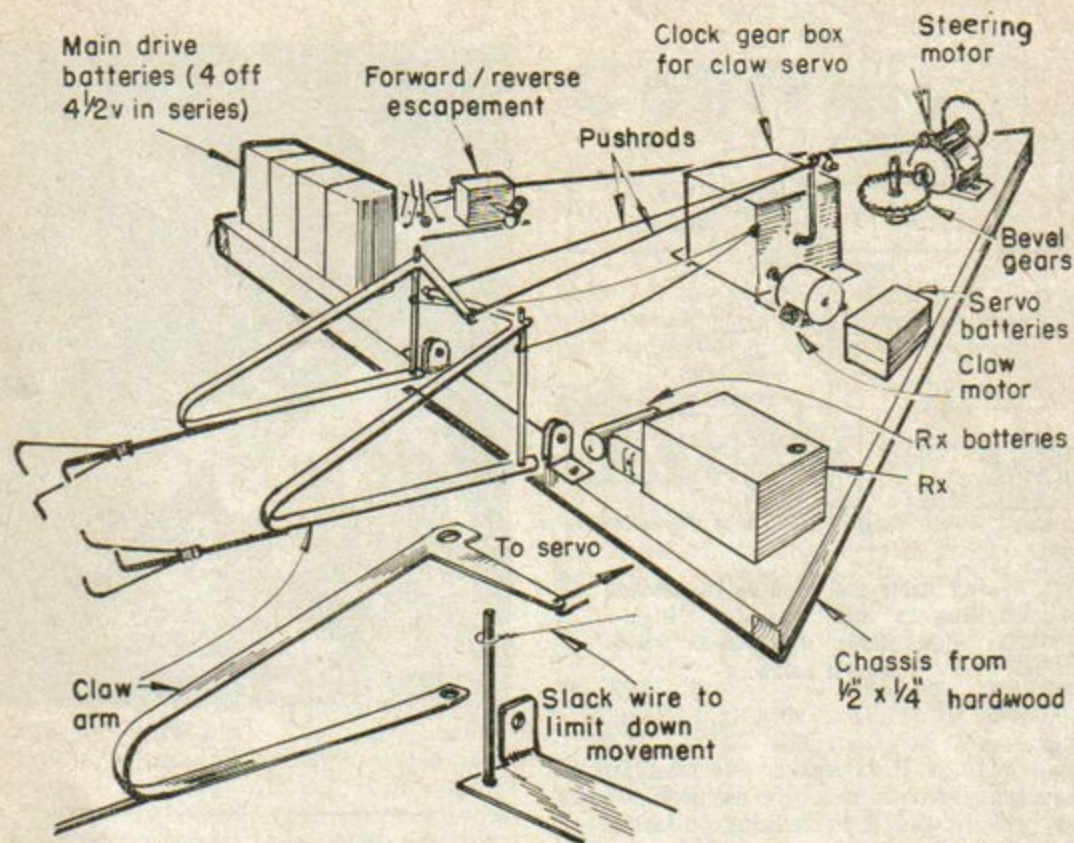
THE "Creep" is a three-wheeled vehicle with one drive wheel, one free running and one steering through 360°. This obviates the necessity for limit switches or over-run devices and makes it very manoeuvrable, full lock takes about three seconds.

Forward, Stop and Reverse functions are controlled by a F.R. clockwork escapement operating D.P. changeover contacts, feeding the drive motor, an ex-WD.5V/5534.

The chassis is fitted with a pair of claws that can grip and lift objects. The arrangement of the claws can be seen from the drawings, only one servo is used for closing-opening-lifting and lowering; the arrangement of the grip levers is such that they are first drawn together, then when this movement is arrested by the object being handled, the jib rises automatically. Another advantage of the system is that heavy objects are gripped more than light ones.

The cover of the "Creep" is made from $\frac{1}{8}$ in ply, and the mast unit may be recognised as being taken from a M.M. Plans Vosper R.T.T.L., the "Radar scanner" and masthead light work on three channels of the E.D. Black Prince 8 receiver.

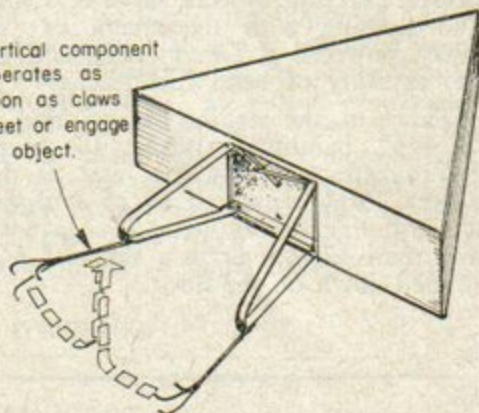




Heading picture shows "Creep" the artist at work. Below: "Reading" R.C.M. & E. . . . Diagrams on opposite page show the wheel positions and drive with the reverse actuator switch below. Right-hand diagram indicates the action of the claws.

General Installation

Vertical component operates as soon as claws meet or engage an object.

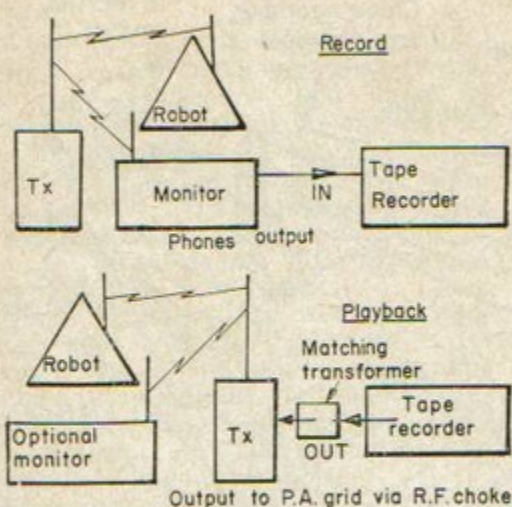


One of the most interesting things from the public point of view is the facility to record a programme and then send the "Creep" through the programme without manual control.

The system is to record the tones on a tape recorder, direct from a signals receiver monitor, and then play the tones from the tape recorder back into the modified Black Prince transmitter.

For this purpose, the transmitter was fitted with a jack socket which feeds the





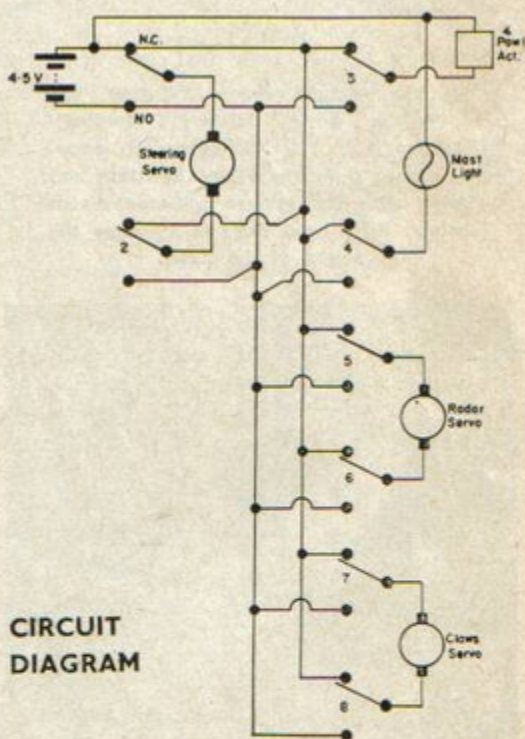
Above: Radio link showing the method of using a tape recorder. Right: Plan view shows the "works" with circuit below.



grid of the P.A. valve. It was found necessary to do this via an R.F. choke to prevent the R.F. leaking to earth.

During the exhibition, demonstrations were given by the "Creep" building toy bricks, carrying objects, large and small, and helping with the flying of "Pee Wee" powered R.T.P. models; acting in the capacity of head fuel fetcher!

Later in the exhibition we had the "Creep" painting. Whilst the results were abstract to say the least, it drew a very large crowd to watch it dipping a brush first in the water then a colour and then move over to a sheet of paper pinned down on the floor.



CIRCUIT DIAGRAM



"I've keyed but nothing happens!"