

PATHFINDER ACCESSORIES

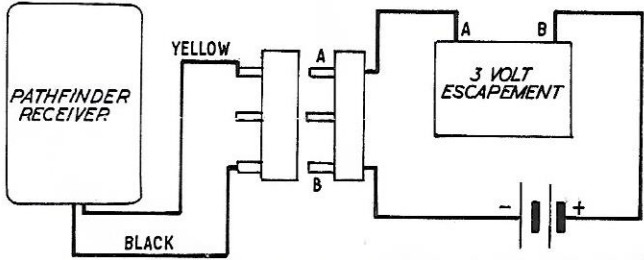
INTRODUCTION

The Pathfinder Receiver is of the "Relayless" type, and its "output" or method of control consists of a "switcher" transistor which acts in a similar manner to a normal on/off switch.

This switch has a maximum current capacity of 500 m/a., will handle and switch on or off up to 9 volts, but MUST be connected correctly. The Yellow & Black wires from the receiver terminated in a 3-pin socket are the two connections to the "switch" and the Black wire is the Negative (-) side which must always be connected to the Negative side of the battery in the circuit.

Thus to operate a bulb, escapement, or small motor, one terminal of the item should be connected to the Yellow wire through the socket, and the circuit completed via a suitable battery with its Negative terminal connected to the Black wire through the socket.

Suitable 3-Pin plugs (and sockets) are available and should always be used to ensure proper contact.



Before plugging in the circuit can be tested by connecting a suitable Milliammeter across the outside pins of the plug which will operate the item and show the current flowing which must not exceed 500 m/a.

Pathfinder Accessory Packs are specially designed for use with Pathfinder receivers, and consist of an escapement, servo, or relay wired to a battery box and 3-pin plug ready to plug in to the receiver for immediate use; and if one of these is being used, this introduction can be ignored, though it may help you to understand how it works.

PATHFINDER SELECTIVE MINI-ESCAPEMENT (RR21)

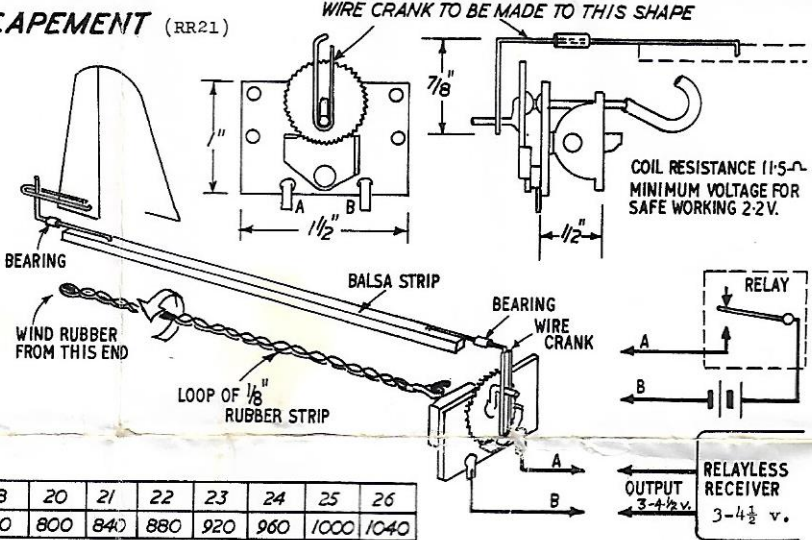
This ultra-lightweight (1/2 ounce) escapement is suitable for operating the RUDDER on model aircraft of up to 60 inches span and can be operated by any SINGLE-CHANNEL RECEIVER. With a RELAYLESS RECEIVER connect the receiver output direct to tags A and B. With a RELAY RECEIVER connect as shown with a 3 volt battery in the circuit.

Install the escapement on a main bulkhead well forward in the fuselage, crank facing forwards. Make up a wire crank, as shown, supported on a bearing; also an end wire crank, to move the rudder. Both wire fittings are secured to a 3/16" sq. strip of hard balsa to transmit the movement.

The escapement is driven by a single loop of 1/8" rubber strip, running down the fuselage approximately parallel to the balsa strip and terminating on a hook at the rear.

The escapement has a SELECTIVE movement and automatically returns to NEUTRAL on release of signal.

The movement following the TX button is:-
 PRESS AND HOLD- gives RIGHT rudder
 PRESS-RELEASE-PRESS AND HOLD- gives LEFT rudder

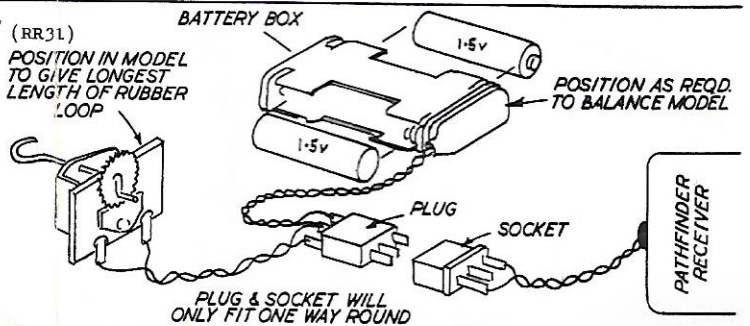


PATHFINDER MINI-ESCAPEMENT PACK (RR31)

This comprises the SELECTIVE MINI-ESCAPEMENT ready-wired to a BATTERY BOX and a SOCKET to connect directly to the plug on a PATHFINDER RECEIVER. The battery box is intended to take two pencils, fitted in the box so that the PLAIN ENDS ARE IN CONTACT WITH THE SPRINGS in the box. No other wiring or connections are required.

The pencil batteries SHOULD BE CHANGED when the voltage measured ON LOAD falls to 2.2 volts or less (or as a rough guide, once a month, whichever is the sooner).

Installation details are the same as above. The Mini-Escapement Pack can also be used with other types of single-channel receivers, remembering that the two OUTER TAGS on the plug correspond to terminals.

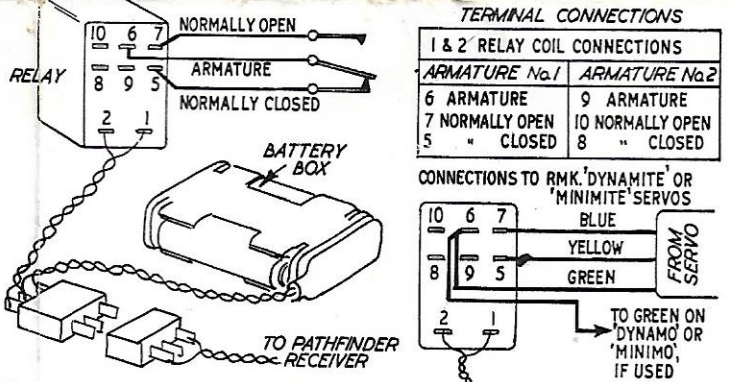


PATHFINDER RELAY PACK (RR32)

This comprises a HIGH SPEED HEAVY DUTY 'SLAVE' RELAY ready-wired to a battery box and a SOCKET to connect directly to the plug of a PATHFINDER RECEIVER to convert to relay operation for use with motorised servos, or 'Galloping Ghost', etc. The relay is of the DOUBLE POLE type (i.e. has twin armatures), but only one armature and its associated contacts need normally be connected.

Install the relay in any suitable part of the model. Connect secondary contacts as shown, or as per servo instructions. For special single pole applications when high currents are being switched, join 6 to 9, 7 to 10 and 8 to 5. This connects the armatures in parallel.

The battery box accommodates two pencils to operate the relay, and these should also be changed when the voltage ON LOAD falls below 2.2 volts. The secondary contacts are rated at 1.5 Amperes.



PATHFINDER 3-PIN PLUG & SOCKET (RR12)



For connecting other escapements or other equipment to the output of a PATHFINDER RECEIVER 3-pin plugs are available as a separate accessory item (complete with matching socket). Note that only the two OUTSIDE pins connect directly to the Pathfinder Receiver itself.