RADIO CONTROL GIANT SCALE AEROPLANES

the servo to the intermediate horn – without recourse to transmitter adjustments. It is much easier than it sounds, just look at Fig. 10.6.

Closed loop systems can be used for most control runs and it is not necessary for them to exit the airframe and make a direct connection to the control horn – although this is possible with many of the earlier aircraft. Cable runs can be terminated at a bellcrank near the control surface and the final connection made to the control horn with a pushrod (see Fig. 10.10). It can even be used in this way for engine throttle control.

Changes of direction in cable runs can be made in two ways. Available as R/C accessories are cable pul-

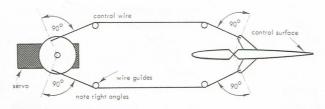


Fig. 10.8: Re-routing cables.

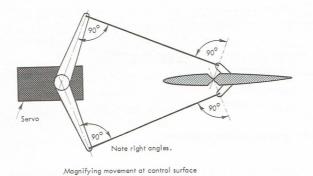


Fig. 10.9: Correct right angle cable connections.

leys of various types and fixings, ship fittings may be suitable for this purpose. It is most important the cable is taken between the pulley and the fit and that there is no chance of the cable coming a from the pulley wheel, or jamming between the pu and fitting. The other method is to run the cable micro bore nylon, or similar low friction plastic ing. The tubing can be taken around gentle cu (under the cockpit floor, for instance, before taki straight run to the fuselage rear end) without ir ducing too much friction on the cables where contact the tubing. For this purpose, and for any ation where there are changes of direction of c runs, a flexible cable, such as nylon covered fis trace line (typical 30lb. strain) should be used. Is control runs are absolutely straight and direct, trol line wire (seven strand) may be used and crim and soldered joints used at the connections.

Special fittings, for use with closed loop cable trol of Giant models are available and include a matic tensioners, slip adjusters and pulleys.

(e) Solid metal pushrods. Used when servos are a cent to the control surface or for the final connect from a bellcrank, or plastic inner, to the control head of the Cour great standby for smaller models, cycle speciare barely strong enough for our Giant purposes tually they would be sufficiently strong for straine push and pull purposes, but not if we require off-set or if high vibration levels are present. In case, most of the control horns, clevises and cranks marketed for large models are designed to a heavier duty threaded rod connector. Unfornately, there is no one set thread standard and may find accessories designed for a variety of ferent thread connections i.e. USA 4-40, SAE, I

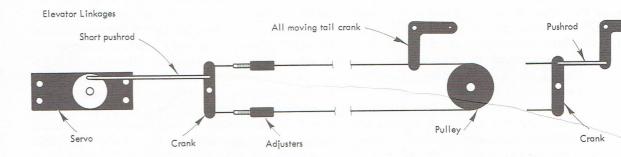


Fig. 10.10: Closed loop linkages for high and all-moving tailplanes.