

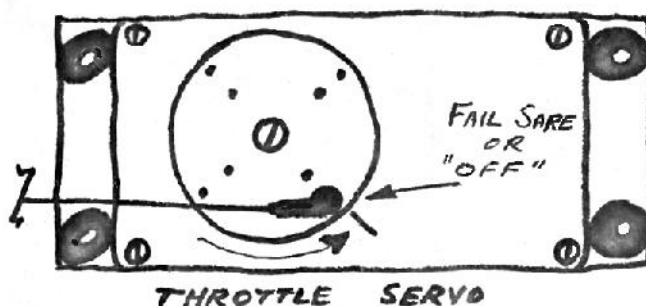
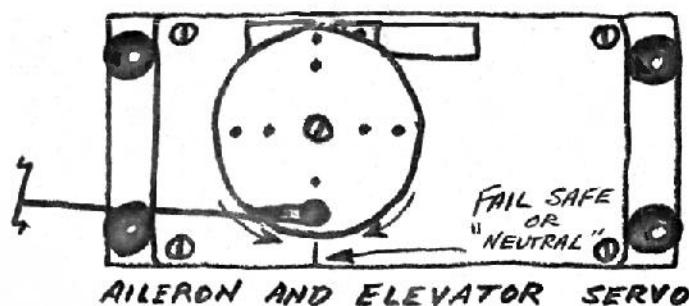


## INFORMATION BULLETIN ON - PS-2A S E R V O S

PS-2A Servos are completely interchangeable with the earlier PS-1 Servos with the exception of the throttle servo (green plug).

The PS-2A Throttle Servo differs from the PS-2A Aileron and Elevator Servos in that it has no linear output rack. The reason for this.....there is approximately  $120^\circ$  of rotation in the output disc of the Throttle Servo versus  $90^\circ$  of rotation in the Aileron and Elevator Servos. This extra travel is due to the "failsafe" function incorporated into the throttle circuit. Since the linear output rack is proportional to the output disc in travel, the rack would jam at the end of the slot in the top of the case with the extra travel.

Now, the problem could be solved by just removing the linear output rack; but....a second problem is encountered if the pre-drilled holes for the push rod are to be utilized. Although all of the PS-2A Servos are electrically identical, the Throttle Servo's "mechanical neutral" is different. If a loss of signal is experienced we want the Aileron and Elevator Servos to go to the middle, or neutral. However, we want the throttle to drive to one end, or to the Off position. (See illustration) This is accomplished by setting the mechanical neutral different.



In conclusion, if an Aileron or Elevator Servo must be used in the Throttle circuit, first remove the linear output rack. When replacing the Servo Top, do not tighten the screws down tight on the four corners of the case. Simply grasp the case firmly and run the screws down until the heads just touch the top cover. The screws will not back out of the case under vibration.

To drill the new push rod hole in the correct location on the servo output disc, plug the throttle servo from which you have just removed the rack, into the Aileron, or Elevator circuit of the receiver plug. (Brown or yellow wires) With the transmitter Off and the Receiver On, the servo will "failsafe".

Drill the new hole in the output disc as per illustration.

Servos can be changed over at the factory for \$4.00

