
1292K-G Replacement Synchro Transmitter

This bulletin is written to inform technicians of a replacement for older GE type 2JDS55 and Elinco "Midget" synchro transmitters used on Woodward and possibly other brands of mechanical hydroelectric governors.

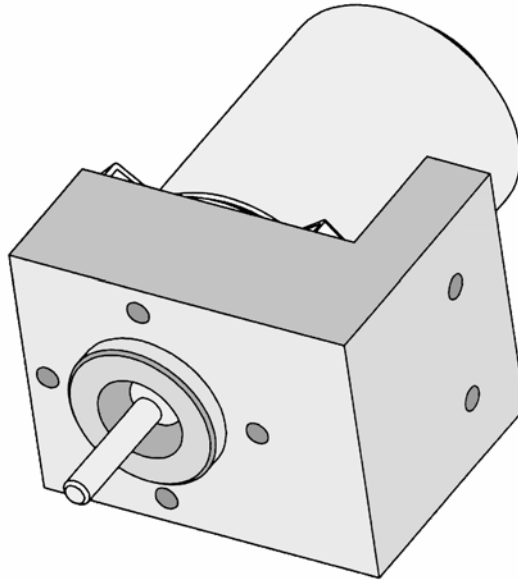


Figure 1 — 1292K-G

Introduction:

The Woodward generator turbine governor is originally equipped with GE type 2JDS55 or Elinco "Midget" type synchro transmitters that transmit the wicket gate limit and wicket gate position to a dial indicator in the control room. These GE synchros were discontinued from production in the 1950's or 1960's. The Elinco "Midget" synchros were discontinued from production in the 1980's. If one of these synchro transmitters fails, there are no replacements available. INCON has made an adaptor that allows our standard size 15 synchro, model 1292, to be used as a replacement to these obsolete motors. The complete assembly, including the synchro motor, mounting adaptor and shaft adaptor, is designated as our model "1292K-G". This transmitter, however, is not designed to drive the remote dial indicator. It is meant as a transmitter to our model 1250, programmable electronic synchro receiver. The original GE and Elinco transmitters were "torque" transmitters. Our 1292 is a "voltage" transmitter. It must be used with an electronic receiver. The INCON 1250 receiver offers much more than a remote display. It can be used to send position information to telemetry or control systems via SCADA or serial communication.

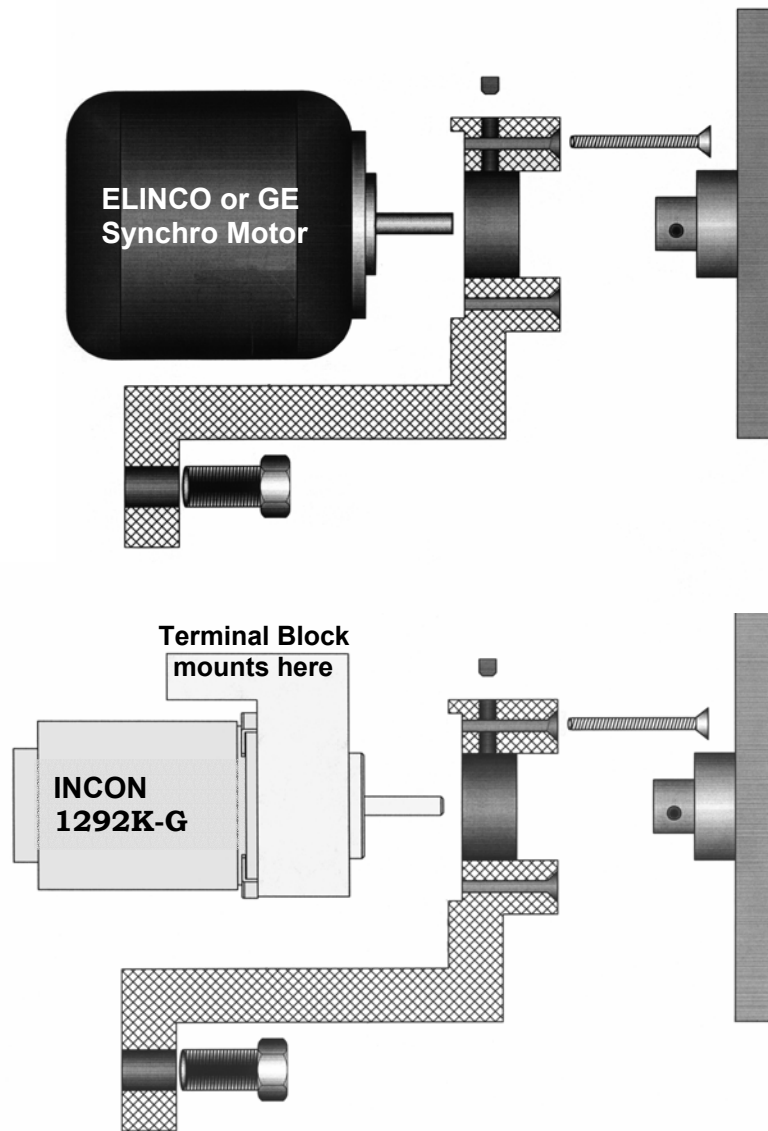


Figure 2 — Fitting the new motor onto the Governor Bracket

Figure 2 shows the Woodward governor bracket and gear with the old and new motors. The INCON mounting adaptor fits the Woodward governor bracket and uses the same mounting screws. The shaft adaptor fits into the gear like the original motor shaft would, and the same setscrews are used to lock the gear in place on the shaft adaptor. The motor's wiring terminal block (not shown) is re-used. The terminal block mounts to the "L" on the adaptor beside the motor.