

A4.0 Appendix

CGR-30P

Twin Engine Installation Instructions

1.0 Installation Overview:

The twin engine system consists of two CGR-30Ps, one for the right engine and one for the left engine. The diagram below also shows the CGR-30C. The CGR-30C is not required to be installed, but considering the number of functions to be monitored in a twin engine system and the limited number of functions each CGR-30P is capable of displaying, the CGR-30C will most likely be ordered with each twin engine package.

Two EDC's will also be provided. The EDC's convert the analog signals from the probes and transducers to a single wire digital data string sent to the CGR-30P head. This keeps the wire count through the wing root to a minimum. One EDC will be mounted just behind the firewall on both the left and right engines. This allows the significant number of probe wires and cables to be as short as possible. The engine EDCs will monitor such functions as EGT's, CHT's, RPM, Fuel Flow, Oil P, Oil T, etc. If the CGR-30Ps are displaying their maximum number of functions, any additional functions can be displayed on the CGR-30C.

The cabin provides the pressure lines for manifold pressure and vacuum. Mount the MP and Vac pressure transducers in the cabin and run the transducer signal wires to the appropriate EDCs. This allows some of the more sensitive transducers to be mounted in the cabin environment. Also, in some cases other function can more easily be monitored from the cabin.

