

"Twindisc Power Commander Controller. The electronic controller consists of the following items: a single, side mounted clutch and throttle lever; a three position engine idle selector switch; a pushbutton station command switch; and indicating lights for neutral (YELLOW) and command status (RED). The control lever operates both the engine transmission/gear box for the forward and astern directions and the engine throttle. The control lever has three detents labeled **F – N – R** on the controller head corresponding to **AHEAD, NEUTRAL and ASTERN** commands. The vertical position of the controller lever corresponds to NEUTRAL and idle RPM of the engine. Control head lever movement of 15 degrees to the AHEAD or ASTERN detent will command ahead or astern clutch engagement while the engine remains at the selected idle RPM. Further movement of the control head lever in either direction will increase the engine RPM in proportion to the control head lever position. The three position idle selector switch corresponds to engine speeds of approximately 600, 750, and 1000 RPM for positions 1, 2, and 3, respectively. The neutral and command status lights will be illuminated when the station in command is in the neutral position. The lever can also control the engine speed only by depressing and holding the pushbutton switch on the controller head and moving the lever forward. The YELLOW neutral indicating light will flash indicating the controller mode is for adjusting the engine speed only. To return to full control mode, move the lever to the NEUTRAL detent position. The YELLOW light will turn solid indicating normal control.

24VDC power to the engine control system is from the main engine starting batteries via the instrument panel ignition key in the **RUN** position. Command is taken by depressing the station command pushbutton on the controller head. The RED light adjacent to the pushbutton will be illuminated at the station in command only. To start the engine, the lever at the station in command **MUST** be in the **NEUTRAL** detent position and YELLOW neutral light illuminated.

Each remote station is independent making only one station able to take command at a time. To transfer command to another station while underway, leave the controller head lever at the last commanded position. At the receiving station, move the controller head lever into the NEUTRAL detent position and press the station command pushbutton on the controller head. The operator has approximately one second after the light becomes solid to position the controller head lever to the approximate position the previous station's lever was set. A smooth transfer of command will take place without interruption of speed."