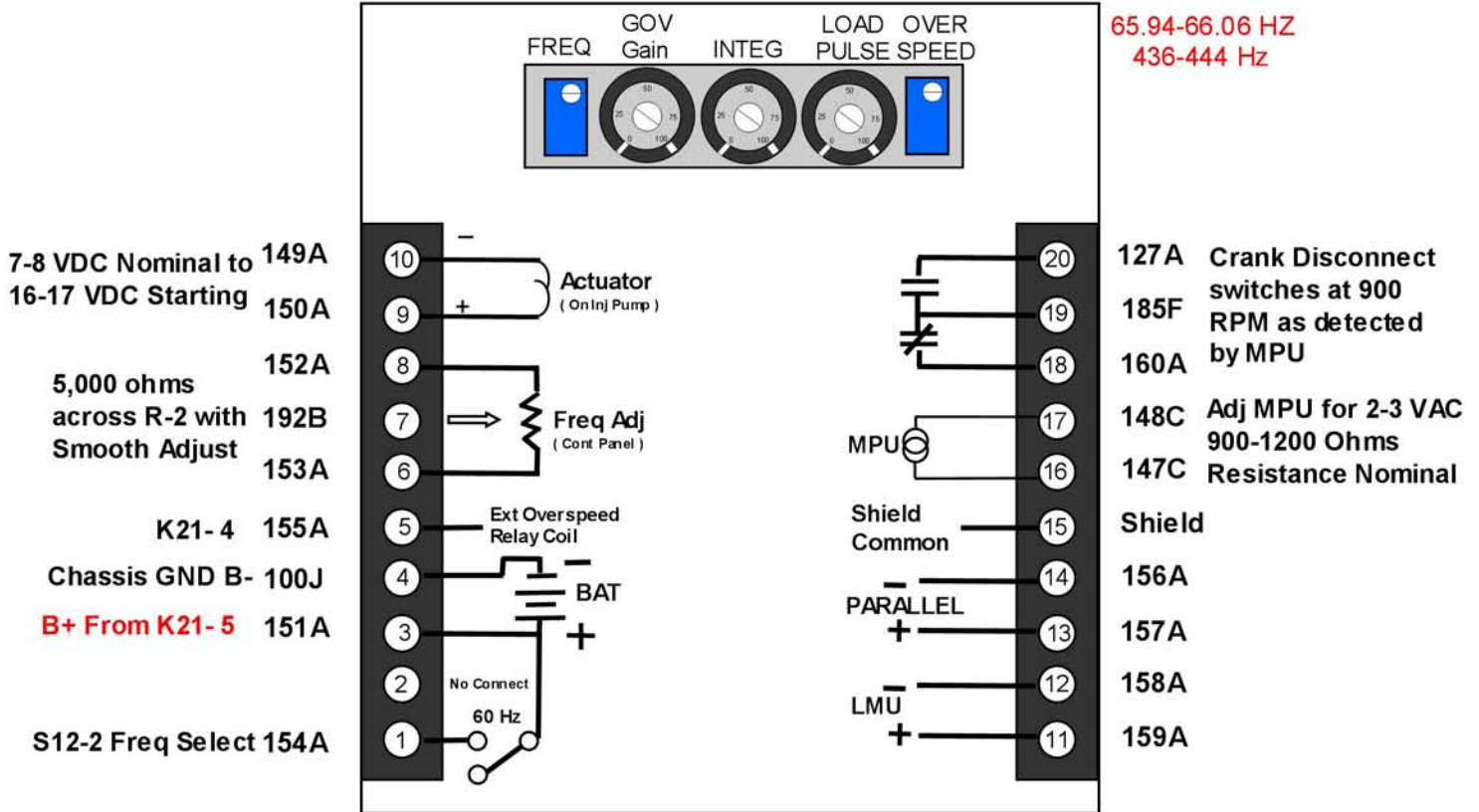


A5 GCU 15KW and ,30/60 KW A Models



NOTE: 400Hz CGUs have No Connection at A5/1 and A5/2

MAG Pickup: Disconnect wire 147C from A-5/16. Normal resistance between wire 147C and terminal A-5/17 is between 900-1200 Ohms. Lower resistance indicates a problem in Mag Pickup. Measuring for AC voltage between wire 147C and A5/17, attempt to crank the engine. You should measure 2-3 VAC. Too low indicates MPU adjustment necessary.

NOTE: You should also be able to measure 2-3VAC between A5/16 - A5/17 while cranking with wires connected.

Fluctuations: Check voltage between A5/9+ and A5/10-. 7-8 VDC is nominal output to A6. 20-21 VDC indicates the MPU signal is not present at A5, and the A5 is compensating with max output to the A6. If out of tolerance check R-2 Voltage adjust Rheostat on control pannel by disconnecting wires 153A and 192B from A5/6 and A5/7. Measure a smooth resistance change on meter from 0 CW - 5,000 ohms CCW. Reconnect wires if all is good and check between A5/6-A5/8. Measure 5,000 ohms. If all is good here, check actuator; 30/60KW check linkage to injection pump for proper distance and swival joint play. (Para 4-15-4) If adjustment is correct and no play in swival joints, contact higher maintenance for injection pump.

A5 Adjustment: Ref (Para 4-3) S12 in 60 Hz Position, place S-1 in "START" position, Measure B+ VDC at A5/3, A5/1 and A5/19. This checks for proper applied VDC. If no B+ check batteries, and wiring. **Starter Lock Out:** Measure B+ VDC at A5/18 while S-1 is in start position. While holding S-1 in start, as engine comes up to speed the B+ VDC should go to 0 VDC. While engine is running, measure B+ at A5/20 when the S-1 is moved to start, and goes to 0 VDC as the S-1 goes back into Run position. **Testing:** (See Para 4-3-2). **Quick FREQ Adjustment** Place Frequency Adj. Rheostat in center position. To set frequency, turn A5 Freq POT fully CCW. With Gen running, adjust frequency pot CW, and measuring at convenience receptacle with frequency meter until 60Hz is obtained. Ensure Freq Meter on control panel indicates the same reading. **OverSpeed:** with Gen running at rated speed, adj A5 Freq Pot CW to 66Hz (440Hz), if not in overspeed, adj. A5 Overspeed pot CCW until gen shuts down. Reset overspeed and readjust A5 Freq Pot to standards. (NOTE: Para 4-3-3 reflects injector pump high idel adjustment if overspeed freq is not obtained). **GOV GAIN:** (SEE Para 4-3.3 v for proper adjustment) Short version is turn CW until engine hunts, then back off until it stabelizes, then a bit more. Around 25-30 is nominal. INTEG and LOAD PULSE are set using a load bank and voltage time measuring instruments. INTEG turning CW decreases load transient time, and LOAD PULSE turning clockwise decreases over/under shoot and recovery time. **LOAD SHARING ADJ:** Run Gen at rated load. Measure 6VDC at A5/11+ and A5/12-. Adjust Load sharing rheostat R-4 to achieve this measurement. Start at fully CCW turn clockwise until VDC is obtained. (usually around the 7:30 - 8:00 o'clock position on rheostat). Another place to measure is at J-2 Pin A+ and B-. You should have .2VDC. **R-5 Reactive Current** is adjusted with Gen stopped. Remove wire from either terminal of CT5. Adjust from fully CCW between J2 pin C and S-11 pin 1 R-5 for a reading of 2 OHMS. (This is usually around 10:30 O'clock on rheostat)