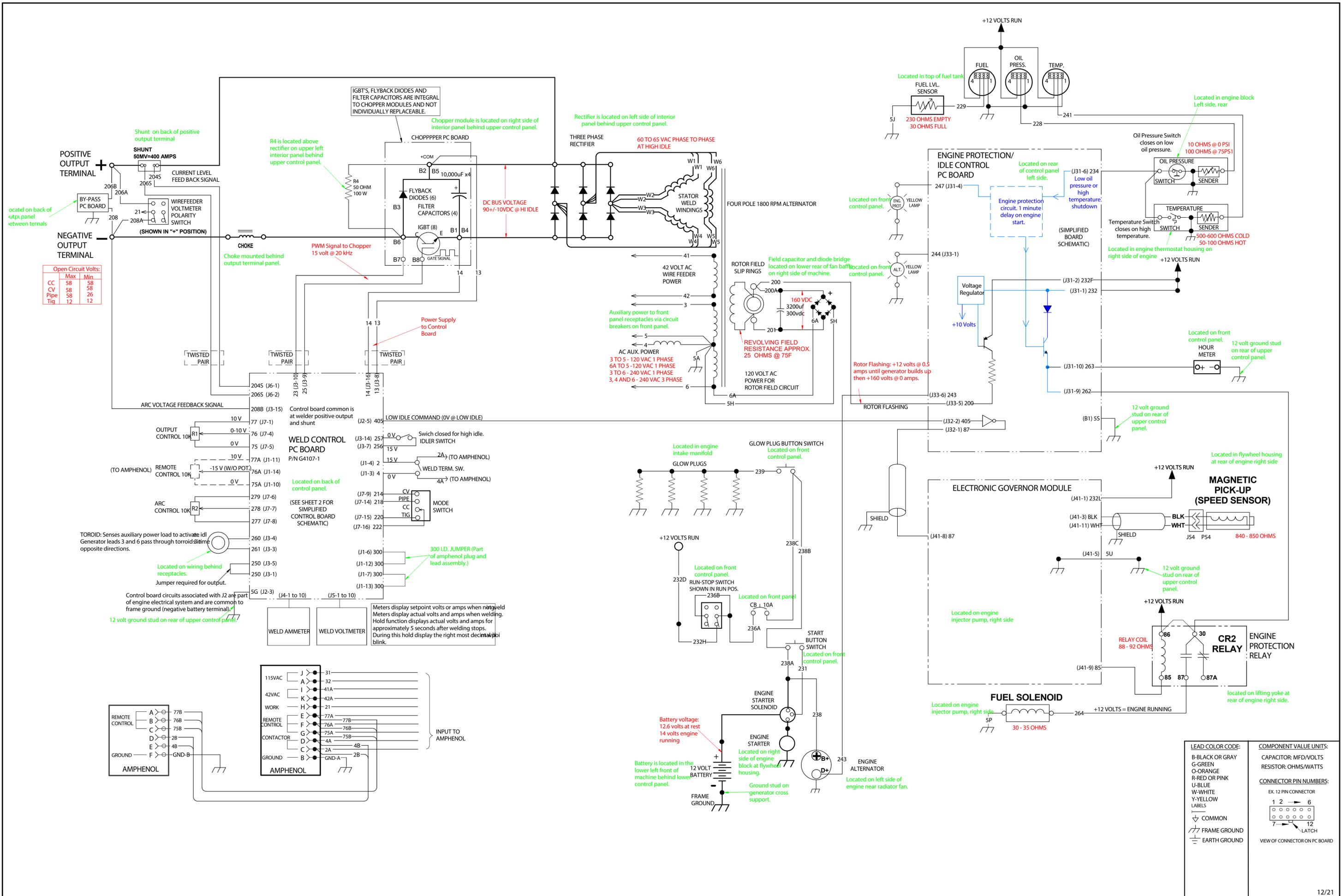


# VANTAGE 300 DEUTZ MACHINE SCHEMATIC G6257 REV:A



Open Circuit Volts:

	Max	Min
CC	58	58
CV	58	58
Pipe	26	26
Tig	12	12

### WELD CONTROL PC BOARD

P/N G4107-1

Located on back of control panel.

(SEE SHEET 2 FOR SIMPLIFIED CONTROL BOARD SCHEMATIC)

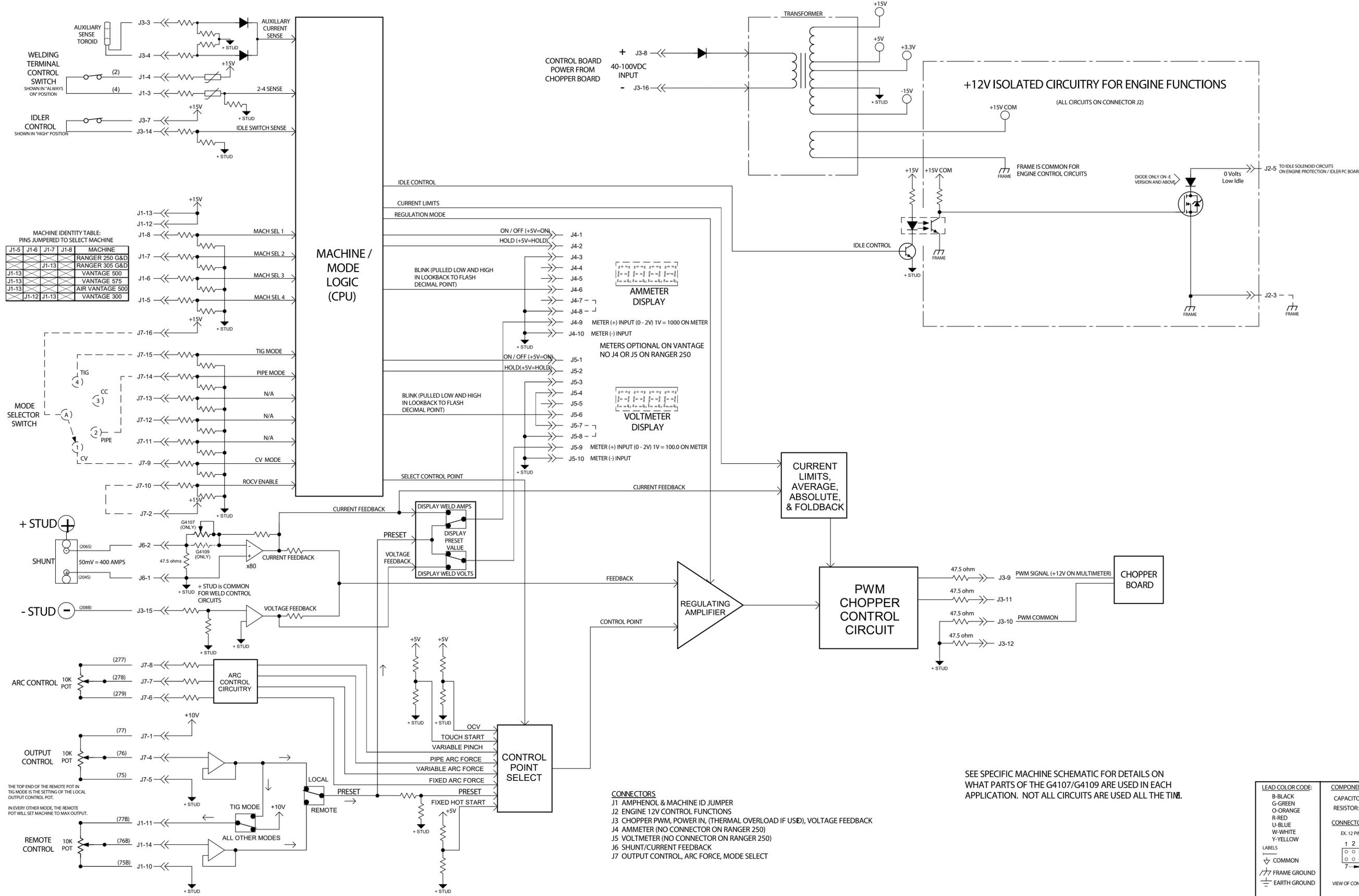
Meters display setpoint volts or amps when not welding. Meters display actual volts and amps when welding. Hold function displays actual volts and amps for approximately 5 seconds after welding stops. During this hold display the right most decimal digit will blink.

LEAD COLOR CODE:		COMPONENT VALUE UNITS:	
B	BLACK OR GRAY	CAPACITOR:	MFD/VOLTS
G	GREEN	RESISTOR:	OHMS/WATTS
O	ORANGE		
R	RED OR PINK		
U	BLUE		
W	WHITE		
Y	YELLOW		
∅	COMMON		
⏏	FRAME GROUND		
⏏	EARTH GROUND		

CONNECTOR PIN NUMBERS:	
EX. 12 PIN CONNECTOR	
1 2	6
3 4 5 6	7 8 9 10 11 12
VIEW OF CONNECTOR ON PC BOARD	

SIMPLIFIED CONTROL BOARD SCHEMATIC



MACHINE IDENTITY TABLE - PINS JUMPERED TO SELECT MACHINE

J1-5	J1-6	J1-7	J1-8	MACHINE
✓	✓	✓	✓	RANGER 250 G&D
✓	✓	✓	✓	RANGER 305 G&D
✓	✓	✓	✓	VANTAGE 500
✓	✓	✓	✓	VANTAGE 575
✓	✓	✓	✓	AIR VANTAGE 500
✓	✓	✓	✓	VANTAGE 300

- CONNECTORS**
- J1 AMPHENOL & MACHINE ID JUMPER
  - J2 ENGINE 12V CONTROL FUNCTIONS
  - J3 CHOPPER PWM, POWER IN, (THERMAL OVERLOAD IF USED), VOLTAGE FEEDBACK
  - J4 AMMETER (NO CONNECTOR ON RANGER 250)
  - J5 VOLTMETER (NO CONNECTOR ON RANGER 250)
  - J6 SHUNT/CURRENT FEEDBACK
  - J7 OUTPUT CONTROL, ARC FORCE, MODE SELECT

SEE SPECIFIC MACHINE SCHEMATIC FOR DETAILS ON WHAT PARTS OF THE G4107/G4109 ARE USED IN EACH APPLICATION. NOT ALL CIRCUITS ARE USED ALL THE TIME.

**LEAD COLOR CODE:**  
 B-BLACK  
 G-GREEN  
 O-ORANGE  
 R-RED  
 U-BLUE  
 W-WHITE  
 Y-YELLOW

**COMPONENT VALUE UNITS:**  
 CAPACITOR: MFD/VOLTS  
 RESISTOR: OHMS/WATTS

**CONNECTOR PIN NUMBERS:**  
 EX. 12 PIN CONNECTOR

VIEW OF CONNECTOR ON PCB BOARD