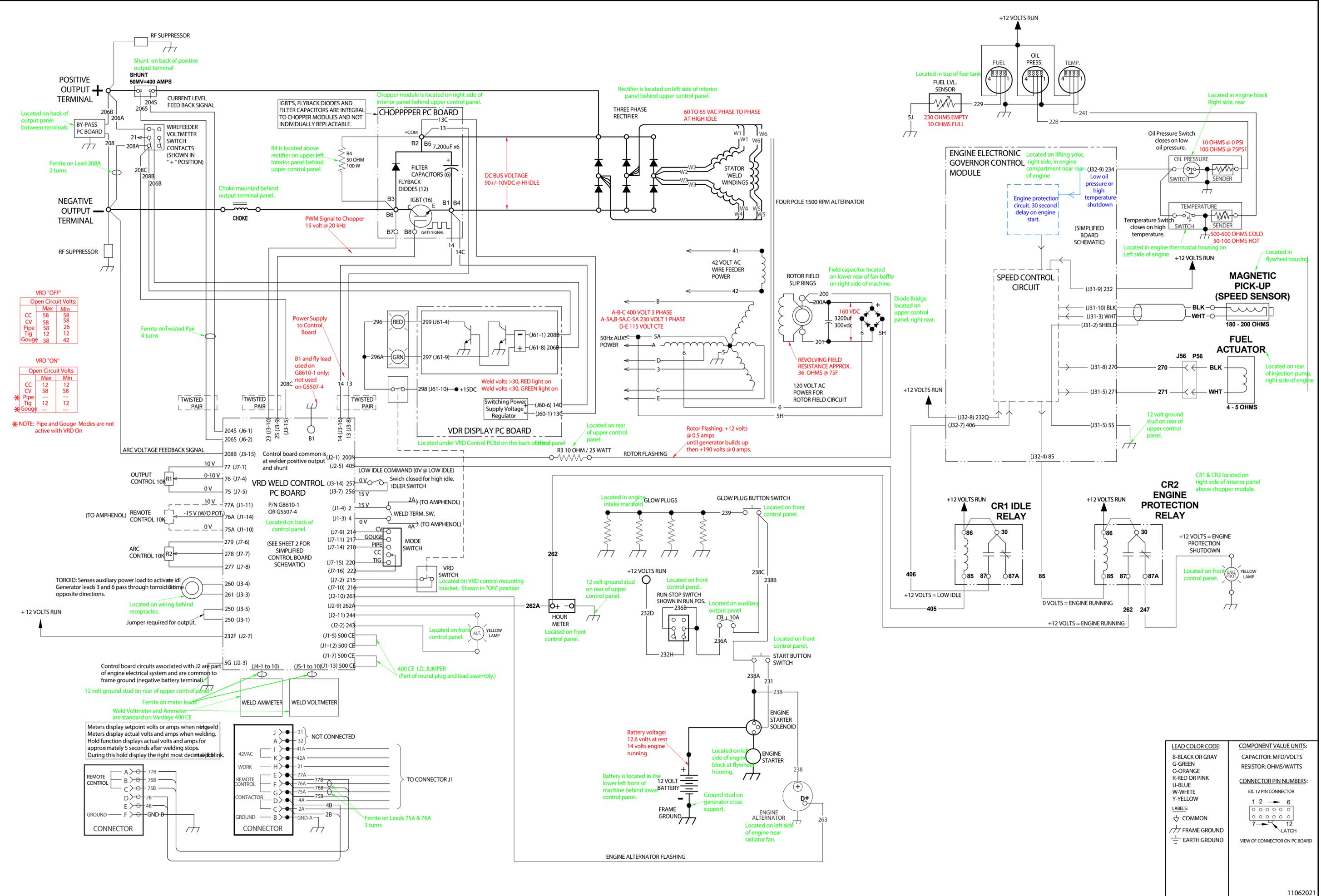


VANTAGE 500 MACHINE SCHEMATIC G657-1 REV: B



VRD "OFF"

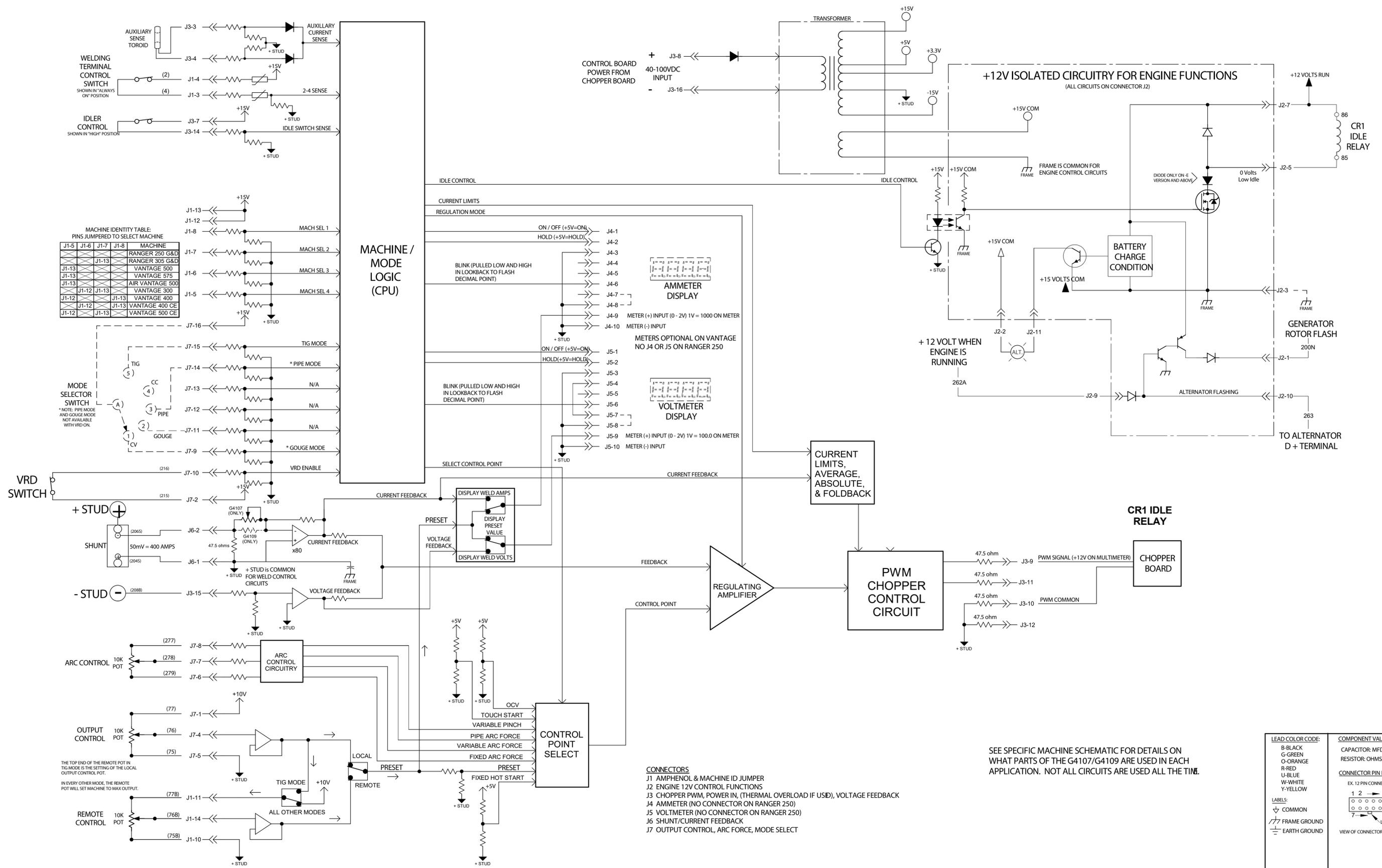
Open Circuit Volts:	Max	Min
CC	58	58
CV	58	58
Pipe	58	26
Tig	12	12
Gauge	58	42

VRD "ON"

Open Circuit Volts:	Max	Min
CC	12	12
CV	58	58
Pipe	---	---
Tig	12	12
Gauge	---	---

* NOTE: Pipe and Gauge Modes are not active with VRD On

SIMPLIFIED CONTROL BOARD SCHEMATIC



MACHINE IDENTITY TABLE:
PINS JUMPERED TO SELECT MACHINE

J1-5	J1-6	J1-7	J1-8	MACHINE
X	X	X	X	RANGER 250 G&D
X	X	X	X	RANGER 305 G&D
X	X	X	X	VANTAGE 500
X	X	X	X	VANTAGE 575
X	X	X	X	AIR VANTAGE 500
X	X	X	X	VANTAGE 300
X	X	X	X	VANTAGE 400
X	X	X	X	VANTAGE 400 CE
X	X	X	X	VANTAGE 500 CE

- 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 VOLT METER (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

LABELS:

- COMMON
- FRAME GROUND
- EARTH GROUND

VIEW OF CONNECTOR ON PCB BOARD