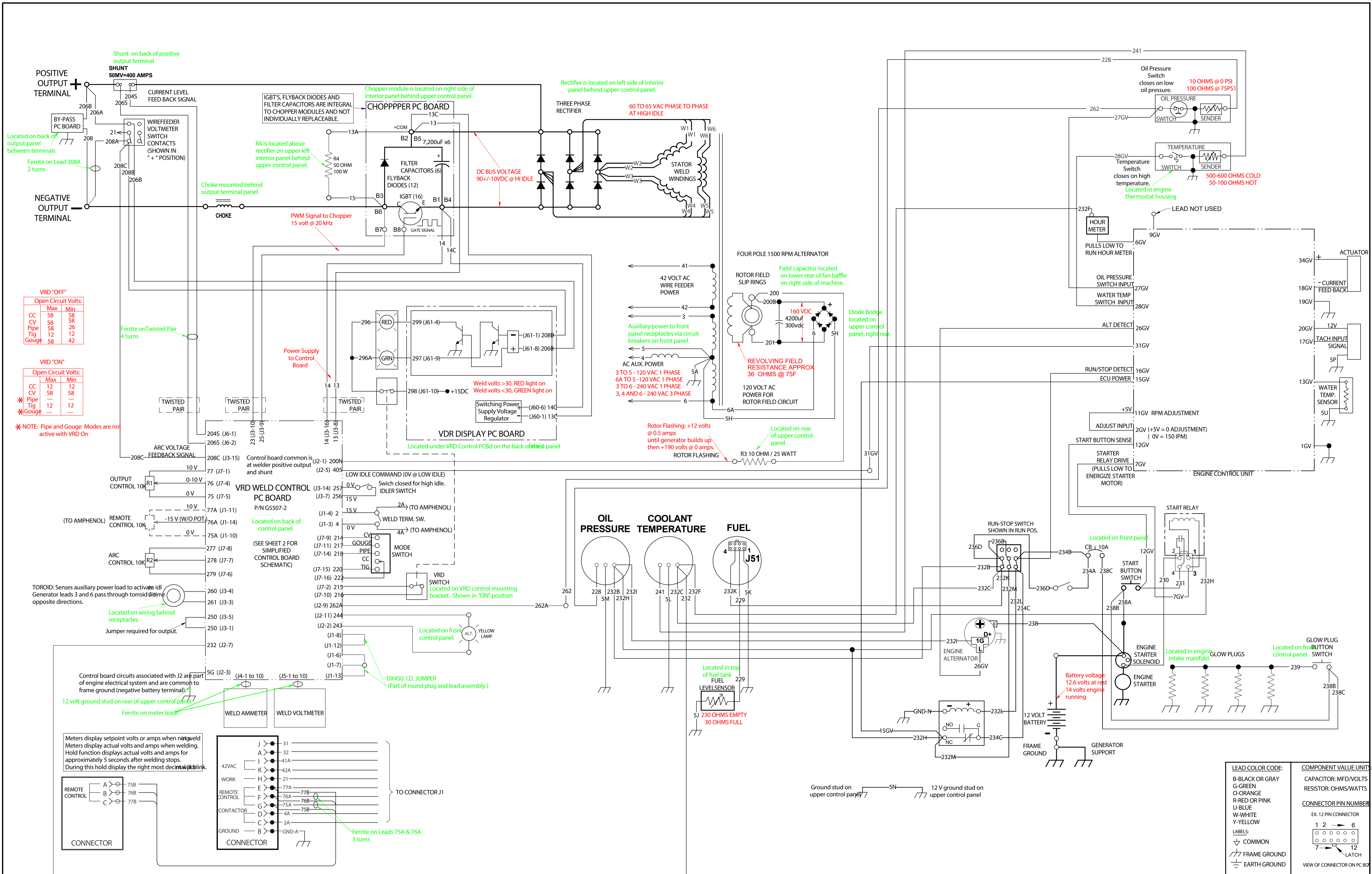


MACHINE SCHEMATIC G6378-1 REV: A



VRD "OFF"

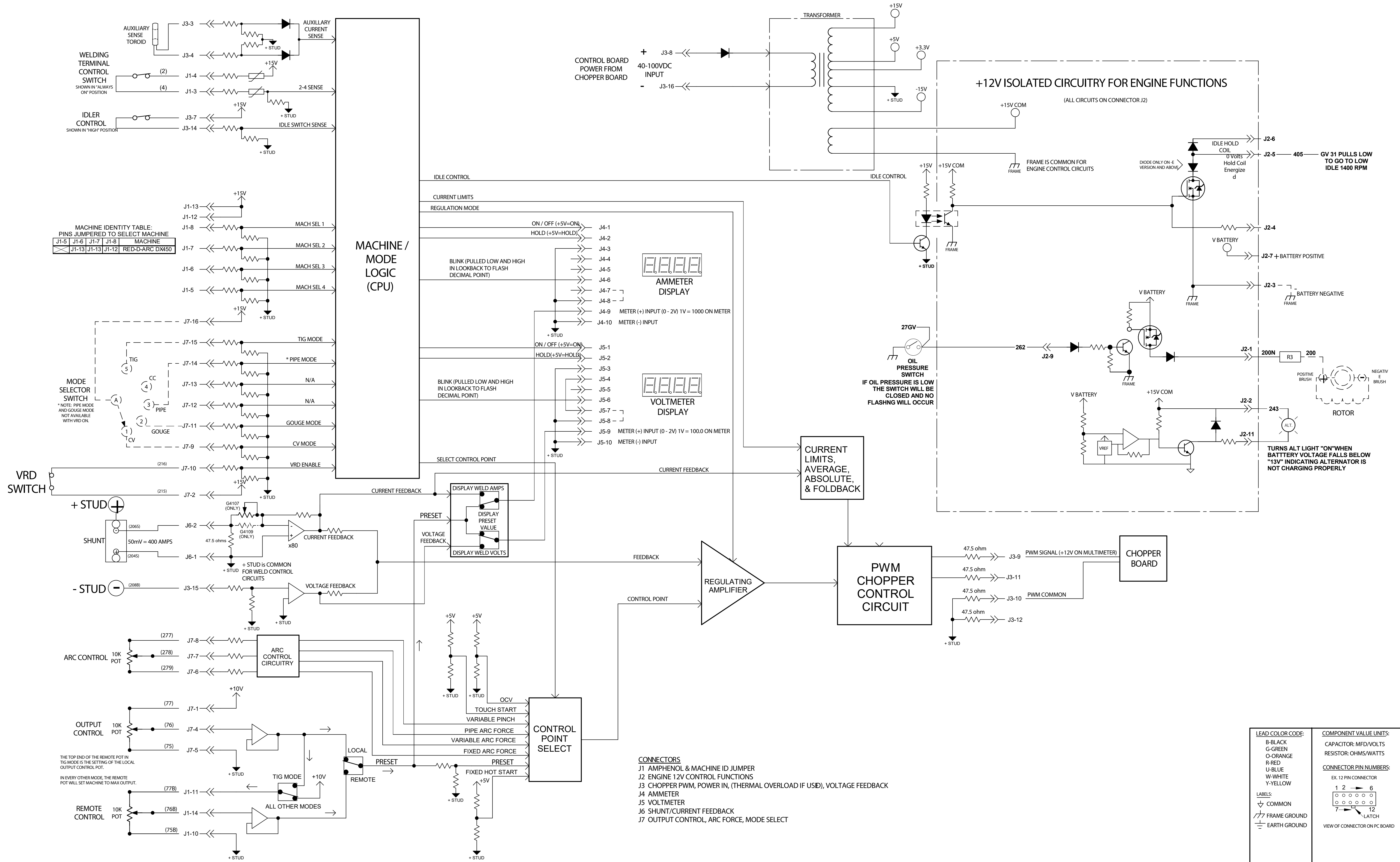
Open Circuit Volts:	Max	Min
CC	58	58
CV	58	58
Pipe	58	26
Tig	12	12
Gouge	58	42

VRD "ON"

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

* NOTE: Pipe and Gouge 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
✗	✗	✗	✗	RED-D-ARC DX450

MODE SELECTOR SWITCH
NOTE: PIPE MODE AND GOUGE MODE NOT AVAILABLE WITH VRD ON!

THE TOP END OF THE REMOTE POT IN TIG MODE IS THE SETTING OF THE LOCAL OUTPUT CONTROL POT.
IN EVERY OTHER MODE, THE REMOTE POT WILL SET MACHINE TO MAX OUTPUT.

- CONNECTORS
- J1 AMPHENOL & MACHINE ID JUMPER
 - J2 ENGINE 12V CONTROL FUNCTIONS
 - J3 CHOPPER PWM, POWER IN, (THERMAL OVERLOAD IF USED), VOLTAGE FEEDBACK
 - J4 AMMETER
 - J5 VOLTMETER
 - J6 SHUNT/CURRENT FEEDBACK
 - J7 OUTPUT CONTROL, ARC FORCE, MODE SELECT

LEAD COLOR CODE:	COMPONENT VALUE UNITS:
B-BLACK	CAPACITOR: MFD/VOLTS
G-GREEN	RESISTOR: OHMS/WATTS
O-ORANGE	
R-RED	
U-BLUE	
W-WHITE	
Y-YELLOW	
LABELS:	CONNECTOR PIN NUMBERS:
↕ COMMON	EX. 12 PIN CONNECTOR
⏏ FRAME GROUND	VIEW OF CONNECTOR ON PCB BOARD
⏏ EARTH GROUND	