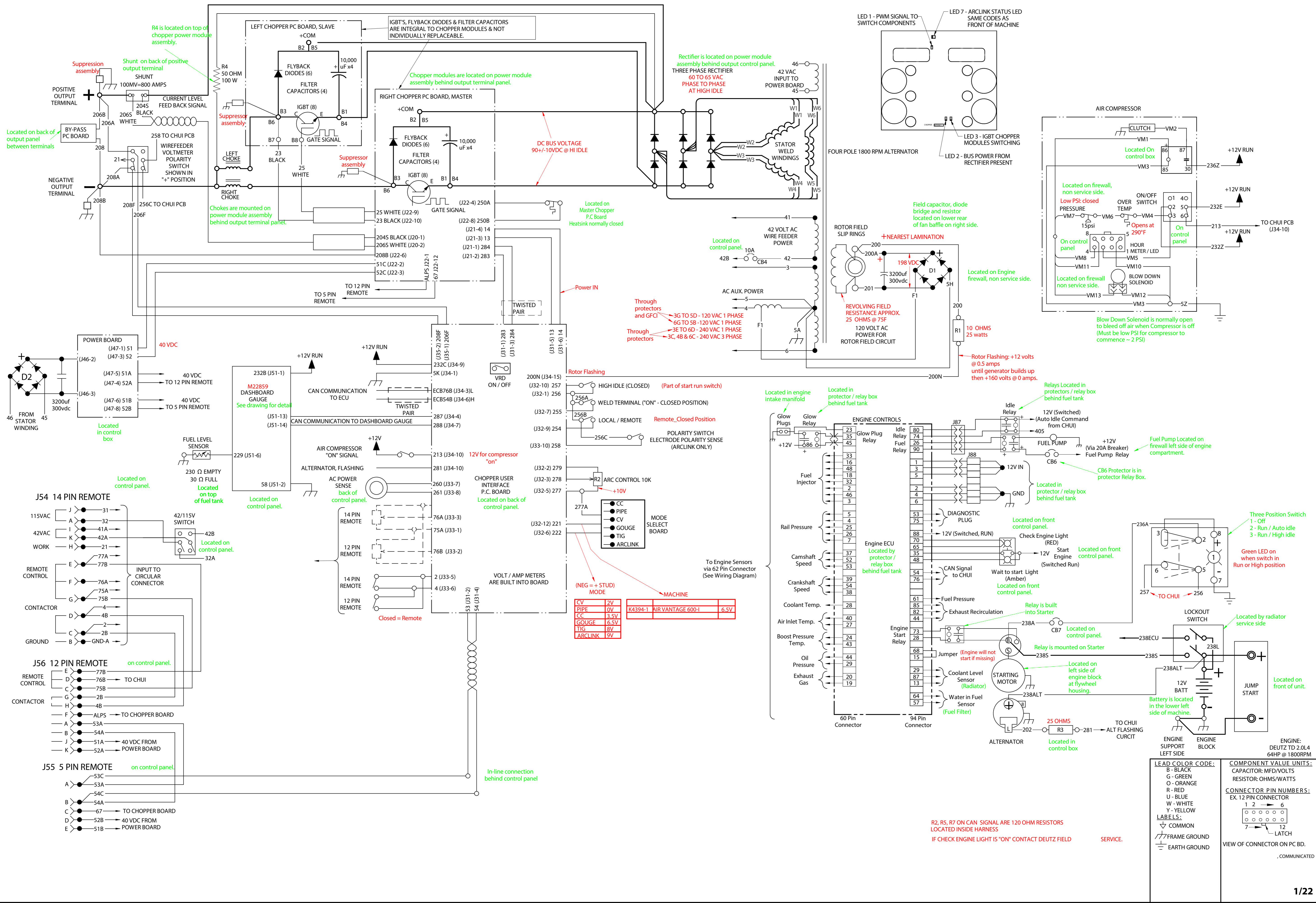


AIR VANTAGE 600-I MACHINE SCHEMATIC G9549 REV: A



DC BUS VOLTAGE
90V-10VDC @ HI IDLE

Power IN

Rotor Flashing

12V for compressor "on"

MODE SELECT BOARD

CV	2V		
PIPE	0V	K4394-1	AIR VANTAGE 600-I
CC	3.5V		
GOUGE	6.5V		
TIG	8V		
ARCLINK	9V		

(NEG = + STUD) MACHINE

In-line connection behind control panel

LED 1 - PWM SIGNAL TO SWITCH COMPONENTS
LED 7 - ARCLINK STATUS LED SAME CODES AS FRONT OF MACHINE

Rectifier is located on power module assembly behind output control panel.
THREE PHASE RECTIFIER
60 TO 65 VAC PHASE TO PHASE AT HIGH IDLE

IGBT'S, FLYBACK DIODES & FILTER CAPACITORS ARE INTEGRAL TO CHOPPER MODULES & NOT INDIVIDUALLY REPLACEABLE.

Chopper modules are located on power module assembly behind output terminal panel.

Chokes are mounted on power module assembly behind output terminal panel.

Located on Master Chopper P.C Board
Heatsink normally closed

Field capacitor, diode bridge and resistor located on lower rear of fan baffle on right side.

Located on Engine firewall, non service side.

Blow Down Solenoid is normally open to bleed off air when Compressor is off (Must be low PSI for compressor to commence ~ 2 PSI)

Through protectors and GFCI
3G TO 5D - 120 VAC 1 PHASE
6G TO 5B - 120 VAC 1 PHASE
3E TO 6D - 240 VAC 1 PHASE
Through protectors
3C, 4B & 6C - 240 VAC 3 PHASE

Rotor Flashing: +12 volts @ 0.5 amps until generator builds up then +160 volts @ 0 amps.

Relays Located in protectors / relay box behind fuel tank

Fuel Pump Located on firewall left side of engine compartment.

CB6 Protector is in protector Relay Box.

Located in front control panel.

12V (Switched) (Auto Idle Command from CHUI)

12V Start Engine (Switched Run)

Relay is built into Starter

Relay is mounted on Starter

Located on left side of engine block at flywheel housing.

Battery is located in the lower left side of machine.

Located by radiator service side

Located on front of unit.

R2, R5, R7 ON CAN SIGNAL ARE 120 OHM RESISTORS LOCATED INSIDE HARNESS

IF CHECK ENGINE LIGHT IS "ON" CONTACT DEUTZ FIELD SERVICE.

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:			
∇ COMMON			
≡ FRAME GROUND			
≡ EARTH GROUND			

