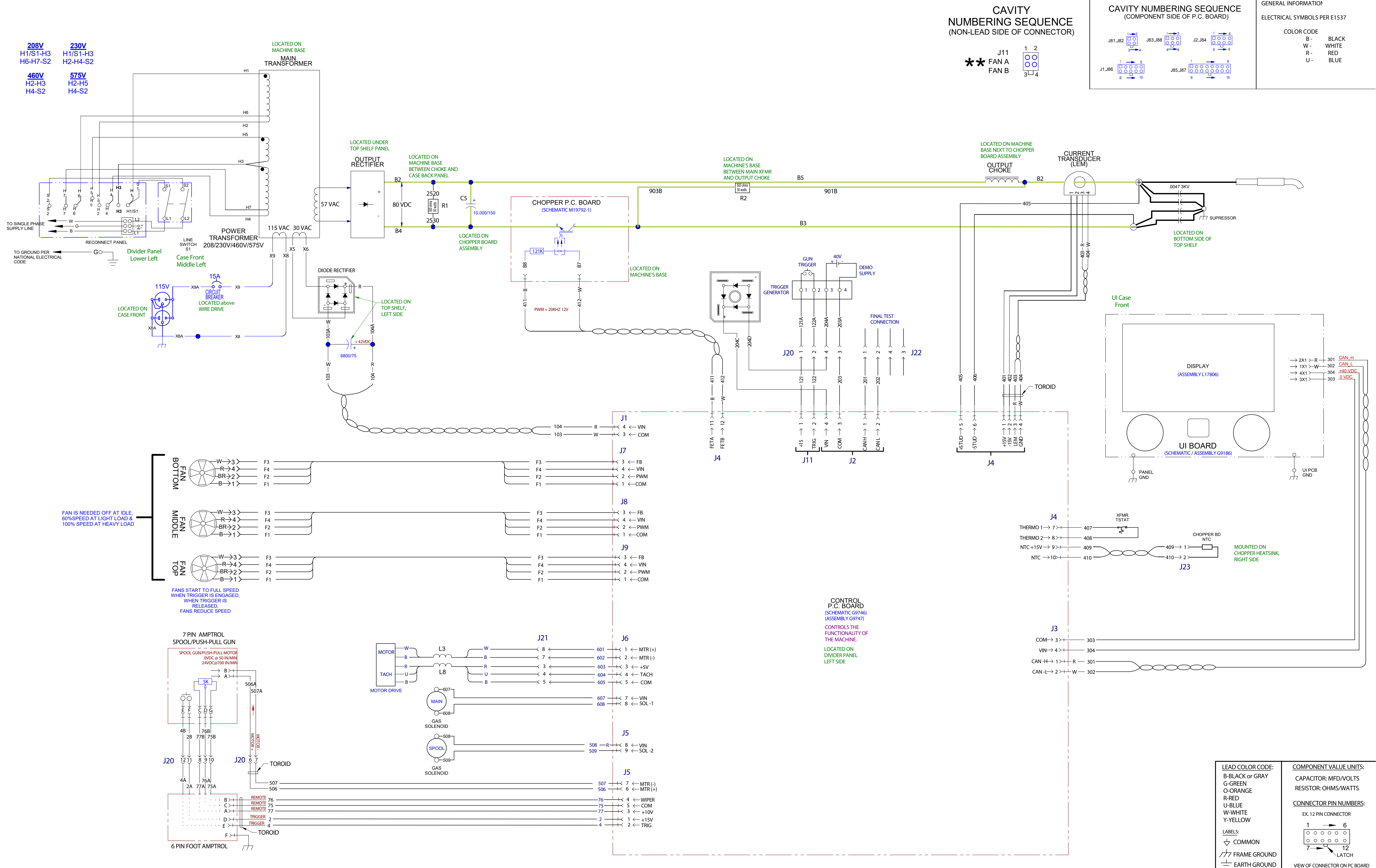
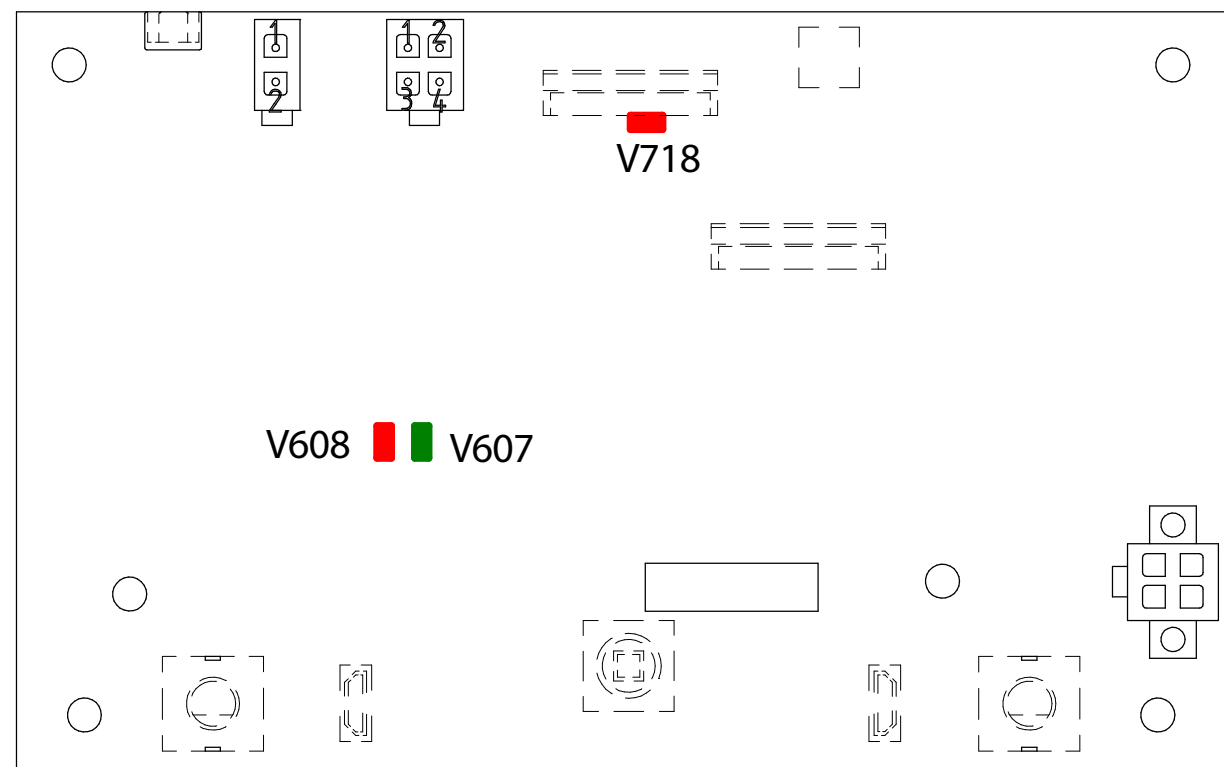
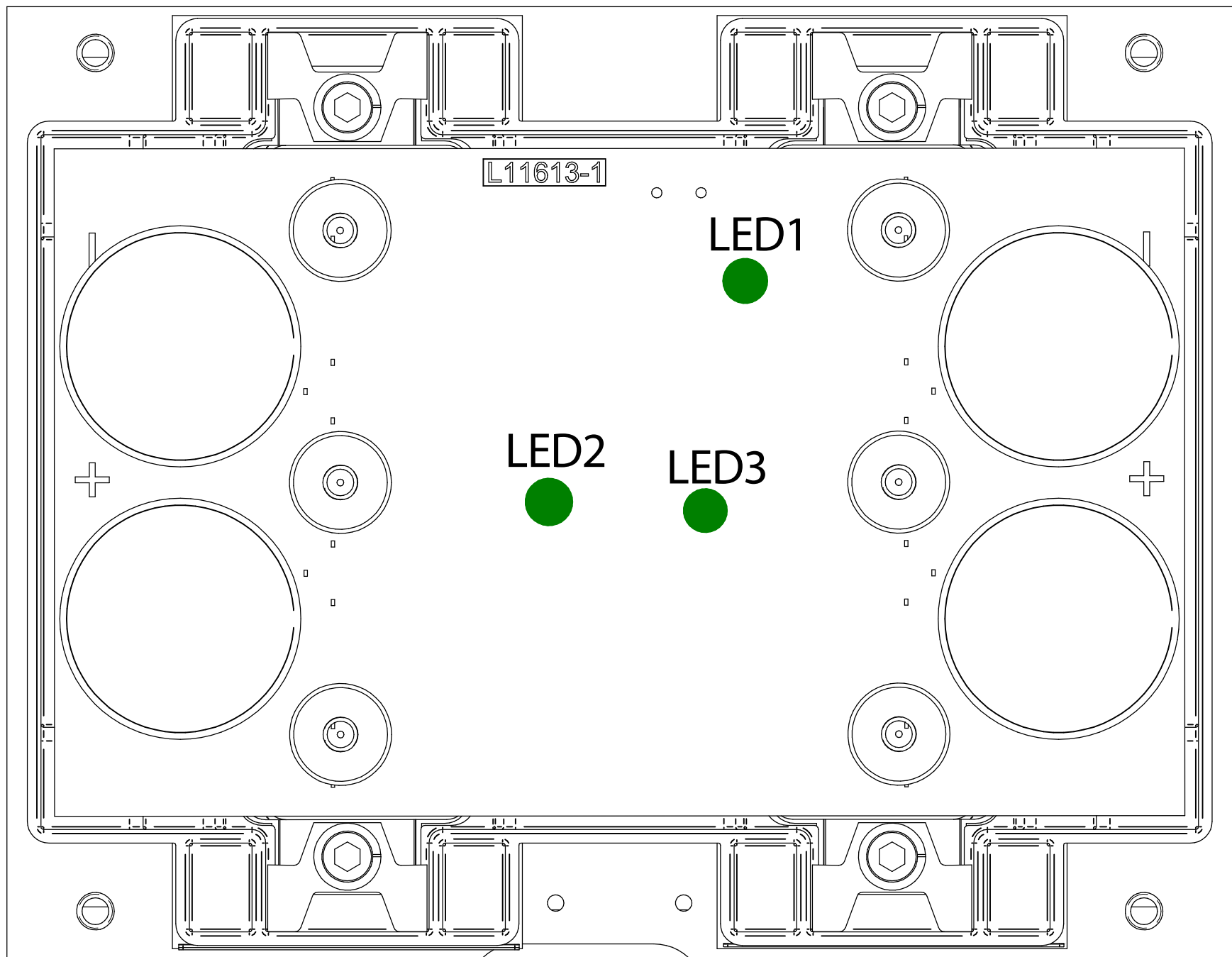


POWER MIG 360MP MACHINE SCHEMATIC G9766-1 REV: A



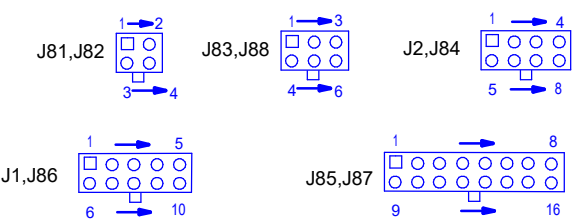


ON BOARD LEDS FOR THE CHOPPER BOARD			
LED	COLOR	FUNCTION	INDICATION
V607	GREEN		NORMAL CONDITION: OFF
V608	RED		NORMAL CONDITION: OFF
V718	RED	3.3V AND 1.18V CREATED	NORMAL CONDITION: STEADY RED
			FAULT CONDITION: OFF - EITHER 3.3V AND/OR 1.18V SOURCE NOT CREATED



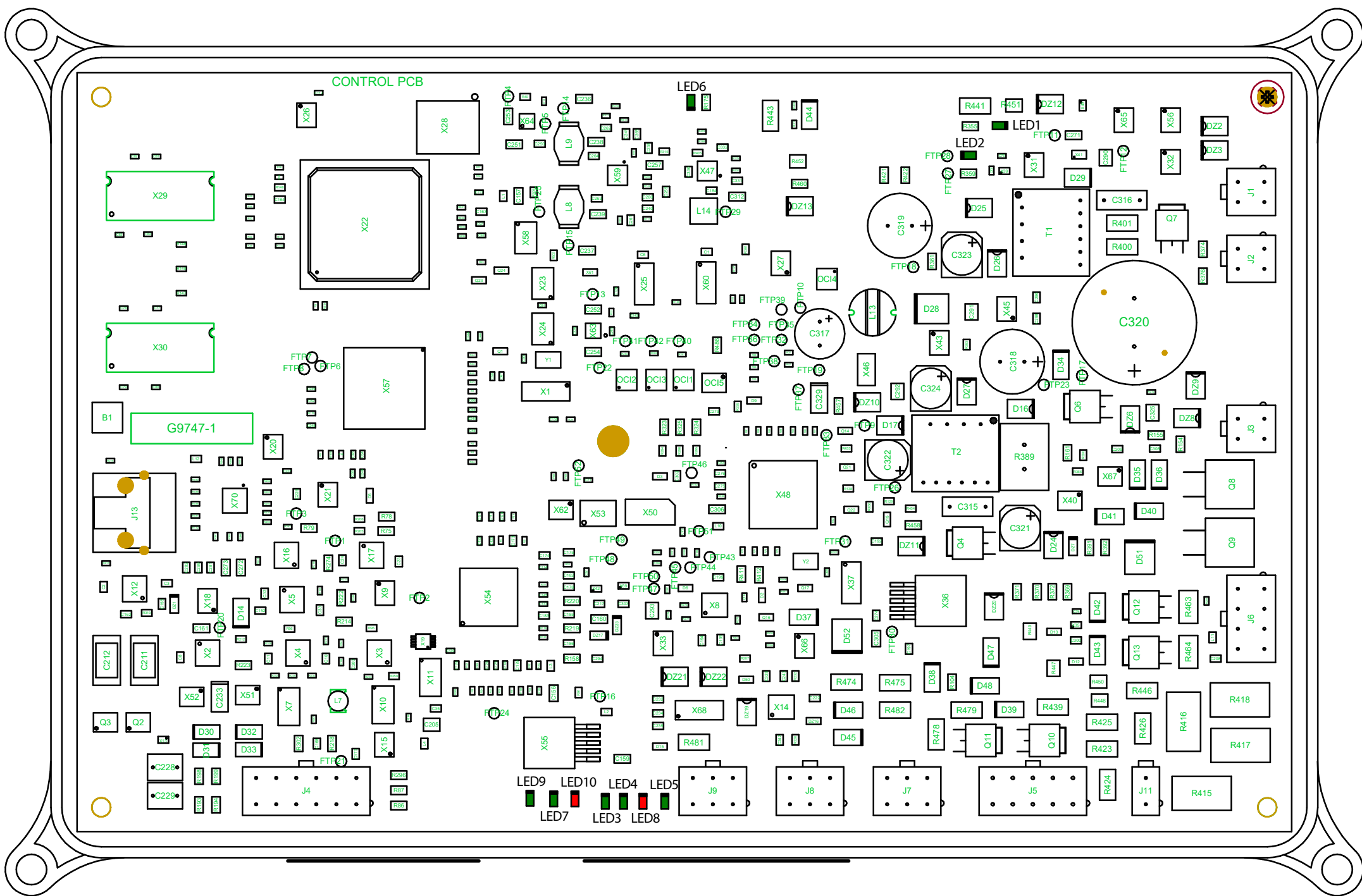
ON BOARD LEDS FOR THE CHOPPER BOARD			
LED	COLOR	FUNCTION	INDICATION
1	GREEN	PWM CONTROL INPUT	NORMAL CONDITION: SOLID OR BLINKING QUICKLY FAULT CONDITIONS: OFF - CONFIRM B7 AND b8 CONNECTIONS, CHECK OC1 FOR DAMAGE, CHECK FOR UNDER VOLTAGE ERROR/LOW INPUT VOLTAGE
2	GREEN	CHOPPER BD CAPS	NORMAL CONDITION: SOLID GREEN FAULT CONDITION: 1. BLINKING - CAPS ARE NOT STAYING CHARGED 2. OFF - CAPS ARE NOT CHARGING
3	GREEN	CHOPPER STATUS	NORMAL CONDITION: STEADY OR FAST BLINKING FAULT CONDITION: OFF - ONLY A FAULT IF OUTPUT IS BEING TRIGGERED

CAVITY NUMBERING SEQUENCE
(COMPONENT SIDE OF P.C. BOARD)



GENERAL INFORMATION
ELECTRICAL SYMBOLS PER E1537

COLOR CODE
B - BLACK
W - WHITE
R - RED
U - BLUE



ON BOARD LEDS FOR THE CONTROL BOARD			
LED	COLOR	FUNCTION	INDICATION
1	GREEN	+15V WIRE DRIVE POWER SUPPLY	NORMAL CONDITION: SOLID GREEN FAULT CONDITIONS: 1. DIM OR BLINKING - FULL +15V IS NOT BEING CREATED OR R356, R355, R358 OR R357 DAMAGED. 2. EITHER +15WD OR -15WD NOT BEING CREATED. CONFIRM PROPER T2 CONNECTIONS.
2	GREEN	+15V CONTROL POWER SUPPLY	NORMAL CONDITION: SOLID GREEN FAULT CONDITION: 1. DIM OR BLINKING - FULL +15V IS NOT BEING CREATED OR R359, R360, R361 OR R362 DAMAGED. 2. EITHER +15V OR -15V NOT BEING CREATED. CONFIRM PROPER T1 CONNECTIONS.
3	GREEN	PSoC STATUS	NORMAL CONDITION: SLOW BLINKING GREEN FAULT CONDITION: OFF
4	GREEN	PSoC STATUS	NORMAL CONDITION: SLOW BLINKING GREEN FAULT CONDITION: OFF
5	GREEN	DSP STATUS	NORMAL CONDITION: SOLID GREEN FAULT CONDITION: OFF
6	GREEN	DSP STATUS	NORMAL CONDITION: BLINKING GREEN FAULT CONDITION: OFF OR SOLID GREEN - TIMER ERROR OR STUCK IN LOOP
7	GREEN	COLDFIRE STATUS	NORMAL CONDITION: SOLID GREEN FAULT CONDITION: 1. BLINKING GREEN - COMMUNICATION/NETWORK STATUS IS IN "ON-LINE/UNCONNECTED" STATE. 2. OFF - +15_WD NOT CREATED OR COMMUNICATION FAILURE
8	RED	WIRE DRIVE ERROR CODE	NORMAL CONDITION: OFF FAULT CONDITION: SOLID OR BLINKING RED
9	GREEN	+3.3V FPGA POWER SUPPLY	NORMAL CONDITION: SOLID GREEN FAULT CONDITION: OFF - 3.3V IS NOT BEING CREATED OR R294 IS DAMAGED.
10	RED	CONTROL BOARD ERROR CODE	NORMAL CONDITION: OFF FAULT CONDITION: SOLID OR BLINKING RED - NETWORK/COMMUNICATION FAILURE

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

LABELS:
COMMON
FRAME GROUND
EARTH GROUND

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

CONNECTOR PIN NUMBERS:
EX. 12 PIN CONNECTOR

VIEW OF CONNECTOR ON PC BOARD