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**ALLEN&HEATH**

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REV	NO	DATE	APP
1	007	01.06.2023	
2	007	01.06.2023	
3	007	01.06.2023	
2	007	11.09.2023	

FILE: C:\Users\JPN\Desktop

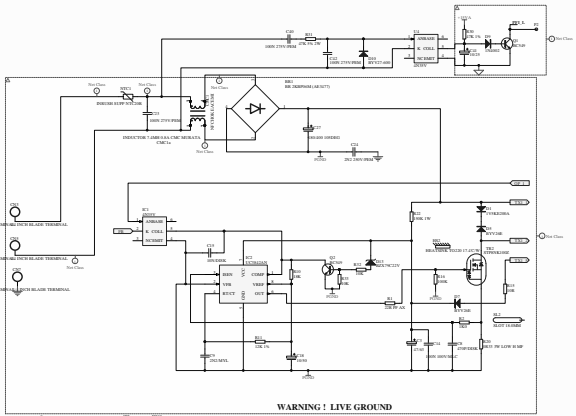
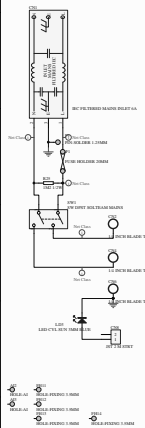
PRINTED: 10:48:46 PM 27/09/24

TITLE: IGL PSU

PAGE:

DRG No: AG8439 ISSUE: 3 SHEET: 1 OF 3

**MAINS BREAK OFF PCB**



**WARNING ! LIVE GROUND**

REV	DATE	BY
1	08/11/05	...
2	08/11/05	...
3	08/11/05	...

**PRIMARY SIDE PSU**

TITLE: IGL PSU  
PAGE:



Designator	Description
BR1	BRIDGE 2KBP06M (AE3477)
C1	CAPACITOR ELECTROLYTIC 100uF 100V (AF0617)
C2	CAPACITOR ELECTROLYTIC 100uF 100V (AF0617)
C3	CAPACITOR ELECTROLYTIC 47uF 63V (AF0217)
C4	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C5	CAPACITOR MULTILAYER CERAMIC 47PF 1KV (AF3075)
C6	CAPACITOR ELECTROLYTIC 10uF 50V (AF0214)
C8	CAPACITOR DISK CERAMIC 470PF 50V (AF4371)
C9	CAPACITOR MYLAR 2N2 100V 10% (AF0151)
C10	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C11	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C12	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C13	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C14	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C15	CAPACITOR DISK CERAMIC 10NF 50V (AF2535)
C16	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C17	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C18	CAPACITOR ELECTROLYTIC 10uF 50V (AF0214)
C20	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C21	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C22	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C23	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C24	CAPACITOR METALISED POLYESTER 2N2 250V Y2/X1 (AF3071)
C25	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C26	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C27	CAPACITOR ELECTROLYTIC 180uF 400V 105 DEG(AF7749)
C28	CAPACITOR ELECTROLYTIC 1000uF 25V LESR (AF3465)
C29	CAPACITOR ELECTROLYTIC 1000uF 25V LESR (AF3465)
C30	CAPACITOR ELECTROLYTIC 1000uF 25V LESR (AF3465)
C31	CAPACITOR ELECTROLYTIC 1000uF 25V LESR (AF3465)
C32	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C33	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C34	CAPACITOR ELECTROLYTIC 47uF 63V (AF0217)
C35	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C36	CAPACITOR MULTILAYER CERAMIC 100NF 100V (AF2689)
C37	CAPACITOR ELECTROLYTIC 1uF 63V (AF0210)
C38	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C39	CAPACITOR ELECTROLYTIC 470uF 25V LESR (AF3462)
C40	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
C41	CAPACITOR ELECTROLYTIC 10uF 25V (AF2983)
C42	CAPACITOR METALISED POLYESTER 100NF 275V X2 (AF3073)
CHK2	INDUCTOR 4.7uH (AM3467)
CHK5	CHOKER 4.7UH (AM3567)
CHK6	CHOKER 4.7UH (AM3567)
CHK7	CHOKER 4.7UH (AM3567)
CMC1	NF CHOKER ACEMI
CMC1a	INDUCTOR 7.4mH 0.8A CMC MURATA (AM5654)
CN1	IEC FILTERED MAINS INLET 6A (AL3458)
CN2	1/4 INCH BLADE TERMINAL (AL0392)

CN3	1/4 INCH BLADE TERMINAL (AL0392)
CN4	1/4 INCH BLADE TERMINAL (AL0392)
CN5	1/4 INCH BLADE TERMINAL (AL0392)
CN6	1/4 INCH BLADE TERMINAL (AL0392)
CN7	1/4 INCH BLADE TERMINAL (AL0392)
CN8	Connector JST B2P-SHF-1AA 2 pins (AL2598)
CN9	Connector JST B2P-SHF-1AA 2 pins (AL2598)
CN10	Connector JST B2P-SHF-1AA 2 pins (AL2598)
D1	DIODE CLAMP 1V5KE200A (AE5960)
D2	DIODE RECTIFIER 1N4002 (AE0005)
D3	DIODE BYW81P-200 200VULTRA 15A (AE3468)
D4	DIODE BYW81P-200 200VULTRA 15A (AE3468)
D5	DIODE BYV26E 1KV 1A (AE3470)
D6	DIODE BYV26E 1KV 1A (AE3470)
D7	DIODE BYV26E 1KV 1A (AE3470)
D8	DIODE RECTIFIER 1N4002 (AE0005)
D9	DIODE RECTIFIER 1N4002 (AE0005)
D10	DIODE BYV27-600 600V 2A (AE3469)
D11	DIODE SBYV28-100 ULTRAFast 3.5A (AE2947)
D12	DIODE RECTIFIER 1N4002 (AE0005)
D13	BZX79C22V 22V ZENER DIODE (AE4933)
D15	DIODE RECTIFIER 1N4002 (AE0005)
D20	DIODE RECTIFIER 1N4002 (AE0005)
D21	DIODE RECTIFIER 1N4002 (AE0005)
F1	FUSE HOLDER 20mm (AL3178)
HS1	HEATSINK (AA5083)
HS2	HEATSINK AAVID 581002B02500 TO220 17.4'C/W + SCREW(AA5259+AB5649)
IC1	IC OPTO ISOLATOR (AE0266)
IC2	IC UC3842AN SMPS (AE3473)
JP1	LINK ASSIGNMENT TC WIRE ,AH0070
JP2	LINK ASSIGNMENT NOT FITTED
LD3	LED CYL SUN 3mm CLEAR BLUE (AE5147)
LK1	TC WIRE LINK ,AH0070
LK2	TC WIRE LINK ,AH0070
LK3	TC WIRE LINK ,AH0070
LK4	TC WIRE LINK ,AH0070
LK5	TC WIRE LINK ,AH0070
LK6	TC WIRE LINK ,AH0070
LK7	TC WIRE LINK ,AH0070
LK8	TC WIRE LINK ,AH0070
LK9	TC WIRE LINK ,AH0070
LK10	TC WIRE LINK ,AH0070
NTC1	INRUSH SUPPRESSOR THERMISTOR S 236/20/M NTC20R (AE3478)
Q1	TRANSISTOR NPN BC549 (AE0020)
Q2	TRANSISTOR NPN BC549 (AE0020)
R1	RESISTOR CARBON 22R PRE FORMED AXIAL 1/4W 5% (AC5425)
R2	RESISTOR CARBON 1K0 1/4W 5% (AC0031)
R3	RESISTOR METAL FILM 2K2 1/4W 1% (AC0039)
R4	RESISTOR CARBON 1K0 1/4W 5% (AC0031)

R5	RESISTOR METAL FILM 2K2 1/4W 1% (AC0039)
R6	RESISTOR METAL FILM 30K 1/4W 2% (AC3012)
R7	RESISTOR WIRE WOUND 390R 1W (AC4095)
R8	RESISTOR CARBON 560R 1/4W 5% (AC0027)
R9	RESISTOR METAL FILM 4K7 1/4W 1% (AC0331)
R10	RESISTOR CARBON 18K 1/4W 5% (AC0049)
R11	RESISTOR METAL FILM 12K 1/4W 1% (AC0360)
R12	RESISTOR WIRE WOUND 0R22 2.5W 5% (AC5251)
R13	RESISTOR CARBON 12K 1/4W 5% (AC0047)
R14	RESISTOR CARBON 15K 1/4W 5% (AC0048)
R15	RESISTOR CARBON 10R 1/4W 5% (AC0002)
R16	RESISTOR CARBON 100K 1/4W 5% (AC0064)
R17	RESISTOR CARBON 1K 1W 5% (AC3018)
R18	RESISTOR CARBON 10R 1/4W 5% (AC0002)
R19	RESISTOR CARBON 330R 1/4W 5% (AC0021)
R20	RESISTOR METAL FILM 0R33 3W 5% LOW IND (AC5467)
R21	RESISTOR CARBON 180R 1/4W 5% (AC0015)
R22	RESISTOR CARBON 150K 1W 5% (AC3450)
R23	RESISTOR METAL FILM 4K7 2.5W 5% (AC5072)
R24	RESISTOR METAL FILM 2K2 1/4W 1% (AC0039)
R25	RESISTOR METAL FILM 1M2 1/2W 5% (AC3691)
R26	RESISTOR CARBON 330R 1/4W 5% (AC0021)
R27	RESISTOR CARBON 3K6 1/4W 5% (AC0093)
R28	RESISTOR CARBON 3K6 1/4W 5% (AC0093)
R29	RESISTOR CARBON NOT FITTED
R30	RESISTOR METAL FILM 47K 1/4W 1% (AC4097)
R31	RESISTOR CARBON 47K 5% 2W (AC5143)
R32	RESISTOR CARBON 10K 1/4W 5% (AC0046)
R33	RESISTOR CARBON 10K 1/4W 5% (AC0046)
SW1	SW DPST SOLTEAM MAINS PS3-22-P3AV (AL3338)
TR2	TRANSISTOR MOSFET N CHANNEL FAST POWER(1KV) STF8NK100Z (AE7610)
TX1	TRANSFORMER E30/15/7 UNIVERSAL (AM5547)
U1	LM317T VOLTAGE REGULATOR (AE3929)
U2	LM337 VOLTAGE REGULATOR (AE7327)
U3	TL783 VOLTAGE REGULATOR (AE0214)
U4	IC OPTO ISOLATOR (AE0266)
ZD1	PROGRAMMABLE VOLTAGE REFERENCE (AE3475)