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TECHNOLOGY GROUP

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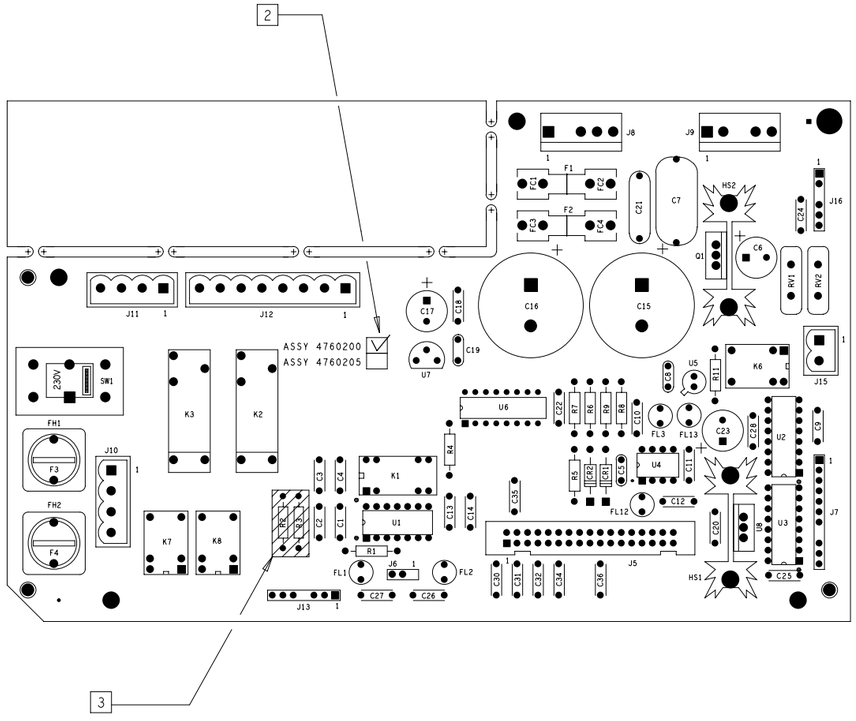
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REVISION		
REV	DESCRIPTION	APPROVED
D	REVISED PER ECO 10-125	



NOTES:

1. ASSEMBLE PER IPC-A-610X (X=LATEST) CLASS 2. ALL REWORK AND REPAIR TO MEET IPC-R-700.
2. USER PERMANENT BLACK MARKER TO CHECK MARK THE PROPER ASSEMBLY NUMBER AS SHOWN.
3. FOR ASSY 4760200, INSTALL R2 (49.9K) PN 1902500 AND R3 (4.99M) PN 1892500.



REFER TO 4760298 DRAWING FOR SCHEMATIC.
REFER TO 4760100 DRAWING FOR ETCHED AND DRILLED.

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	DATE	NAME
DWG	03/08/10	VLUU
CHK		
ENGR		
REL		

SCALE 1X1 SHT 1 OF 3

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

DO NOT SCALE THIS DWG.

HACH COMPANY
5600 LINDBERGH DR.
LOVELAND, CO 80539

TITLE
CIRCUIT BOARD ASSY.,
POWER SUPPLY, SERIES 5000

SIZE	DWG NO.	REV.
C	4760200	D

*** HACH COMPANY *** BILL OF MATERIALS

DRAWING No.: 4760200 REV.: D TITLE: CIRCUIT BRD ASSY - POWER SUPPLY, SERIES 5000
DRAWN BY: VLUU DATE: 03/16/10 APP BY: _____

No.	HACH PN	QTY	NOTE	REF DES	TYPE	DESCRIPTION
1	558111	2			THRU_LF	SCREW 4-40X .25 PAN SST PHIL
2	673644	2		CR1,CR2	THRU	DIODE, 1N914 ON TAPE, 52MM
3	693712	2			THRU	NUT 4-40 HEX KEPS EXT LCK ZN
4	1590800	1		U4	THRU_LF	IC AMP, OP LOW POWER DUAL 358
5	1883500	1		R9	THRU	RES FLM 1/8W 1.% 1 KOHM
6	1889500	1		U5	THRU_LF	IC REFERENCE VOLT 1.23V
7	1892500	1		R3_4760200	THRU	RES, FHS, 1/8W 1.% 4.99 MOHM
8	1902500	2		R7,R2_4760200	THRU	RES FHS 1/8W 1% 49.9 KOHM
9	1982300	2		HS1,HS2	THRU	HEAT SINK, THERMALLOY PN 6099A
10	1992400	1		C21	THRU	CAP.MTLPLSTR .47 MFD 100 VDC
11	3143700	1		Q1	THRU	TRANSISTOR POWER MOSFET,N-CHAN
12	3175600	1		C7	THRU	CAP.POLYESTER 3.3 MFD 100 VDC
13	3175900	1		U8	THRU_LF	IC REGULATOR +12V LOW DROPOUT
14	3177100	5		FL1-FL3,FL12,FL13	THRU	FILTER, EMI SUPPRESSION 28C0236
15	4008200	1		R1	THRU	RES FLM 1/8W 1% 100K OHM
16	4182100	1		J13	THRU	CONN, .100 CTR STR POST 7 CKT .025 SQ
17	4190900	1		J16	THRU	CONN, .100 CTR STR POST 6 CKT
18	4219800	2		C2,C10	THRU	CAP, CERAMIC 0.01 MFD 50 VDC
19	4222700	8		C26,C27,C30-C32,C34-C36	THRU	CAP.CERAMIC 100. PFD 50 VDC
20	4223000	13		C3,C4,C9,C11-C14,C18,C20,C22, C24,C25,C28	THRU	CAP.CERAMIC .1 MFD 50 VDC
21	4223100	1		C1	THRU	CAP.CERAMIC .001MFD 50 VDC
22	4223300	1		U1	THRU	IC AMP,OP CHOPPER STAB 7650 CMOS
23	4224100	1		K1	THRU	RELAY, DIP REED SPDT
24	4233100	2		R5,R6	THRU	RES FLM 1/8W 1% 1 MOHM
25	4233200	1		R4	THRU	RES FLM 1/8W 1. %249. OHM
26	4316000	2		J8,J9	THRU_LF	CONN, .156 CTR STR POST 5 CKT
27	4394500	1		U6	THRU	IC DARLGT XSTR 7-ARRAY 2003/1413
28	4410200	3		C5,C8,C19	THRU	CAP, CERAMIC 1. MFD 50 VDC
29	4412400	2		R8,R11	THRU	RES FHS 1/8W 1. % 2.67 KOHM
30	4458700	1		J12	THRU_LF	CONN, .200 CTR HDR 8 CKT VERT
31	4458900	1		J15	THRU_LF	CONN, .200 CTR HDR 2 CKT VERT
32	4459000	2		F3,F4	THRU	FUSE, 1A 250V SLOW 5X20MM
33	4459100	2		F1,F2	THRU_LF	FUSE, 4A 125V SLOW 5X20MM
34	4509100	3		C6,C17,C23	THRU_LF	CAP.ELCTLT 100. MFD 25 VDC
35	4519600	1		J6	THRU	CONN, .100 CTR STR POST 3 CKT
36	4545800	1		J7	THRU_LF	CONN, .100 CTR STR POST 11 CKT
37	4552700	1		U7	THRU_LF	IC REGULATOR VOLT ADJ NEG 79L05
38	4635500	2		FH1,FH2	THRU	FUSE HOLDER, 5X20MM VERT PC MOUNT
39	4637200	3		K6-K8	THRU_LF	RELAY, SPDT 5V 100MW, CONT 1A
40	4638600	4		FC1-FC4	THRU_LF	FUSE CLIP, 5MM DIA FUSE
41	4638800	1		SW1	THRU_LF	SWITCH LINE VOLT SELECT PC MOUNT
42	4720800	2		J10,J11	THRU	CONN, .200 CTR HDR 4 CKT

*** HACH COMPANY *** BILL OF MATERIALS

DRAWING No.: 4760200 REV.: D TITLE: CIRCUIT BRD ASSY - POWER SUPPLY, SERIES 5000
DRAWN BY: VLUU DATE: 03/16/10 APP BY: _____

No.	HACH PN	QTY	NOTE	REF DES	TYPE	DESCRIPTION
43	4721200	2		RV1,RV2	THRU	VARISTOR, 130 RMS MAX, 56 J MAX
44	4722000	1		J5	THRU_LF	CONN, HDR 34 CKT STR PIN PC MT
45	4760100	1			THRU	CKT BD E&D, POWER SUPPLY, SERIES 5000
46	4762800	2		K2,K3	THRU	RELAY, SPDT 5V, CONT 8A @ 250VAC
47	5003300	2		C15,C16	THRU	CAP.ELCTLT 4700.MFD 35VDC
48	9241500	2		U2,U3	THRU_LF	IC, QUAD PERIPHERAL DRIVER
49	SE 1067	1			SMT_LF	LABEL, AMBER POLYIMIDE

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