



## Service Manual



# iNUKE NU6000DSP

Ultra-Lightweight, High-Density 6000-Watt Power Amplifier with DSP Control and USB Interface

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**behringer.com**

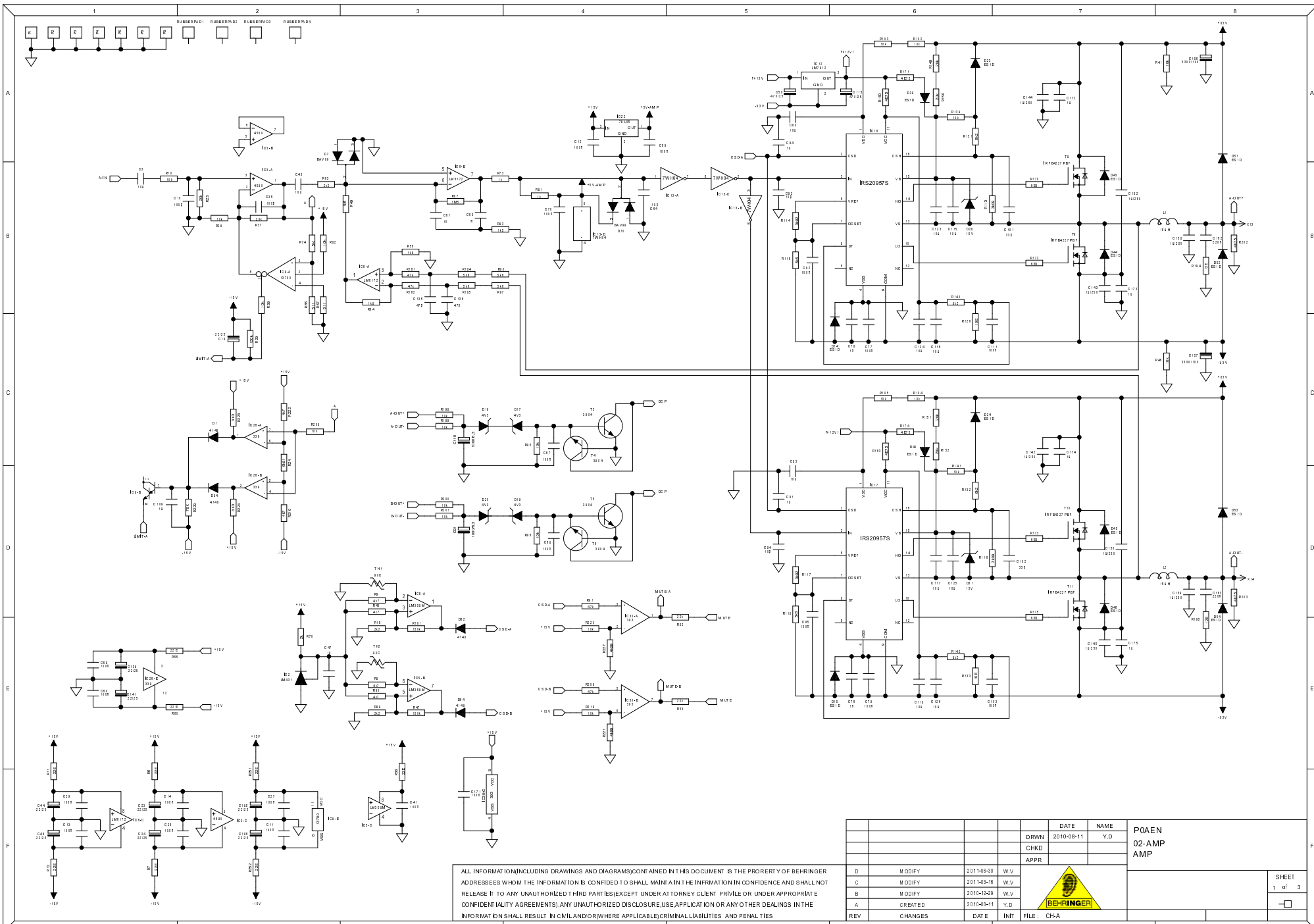


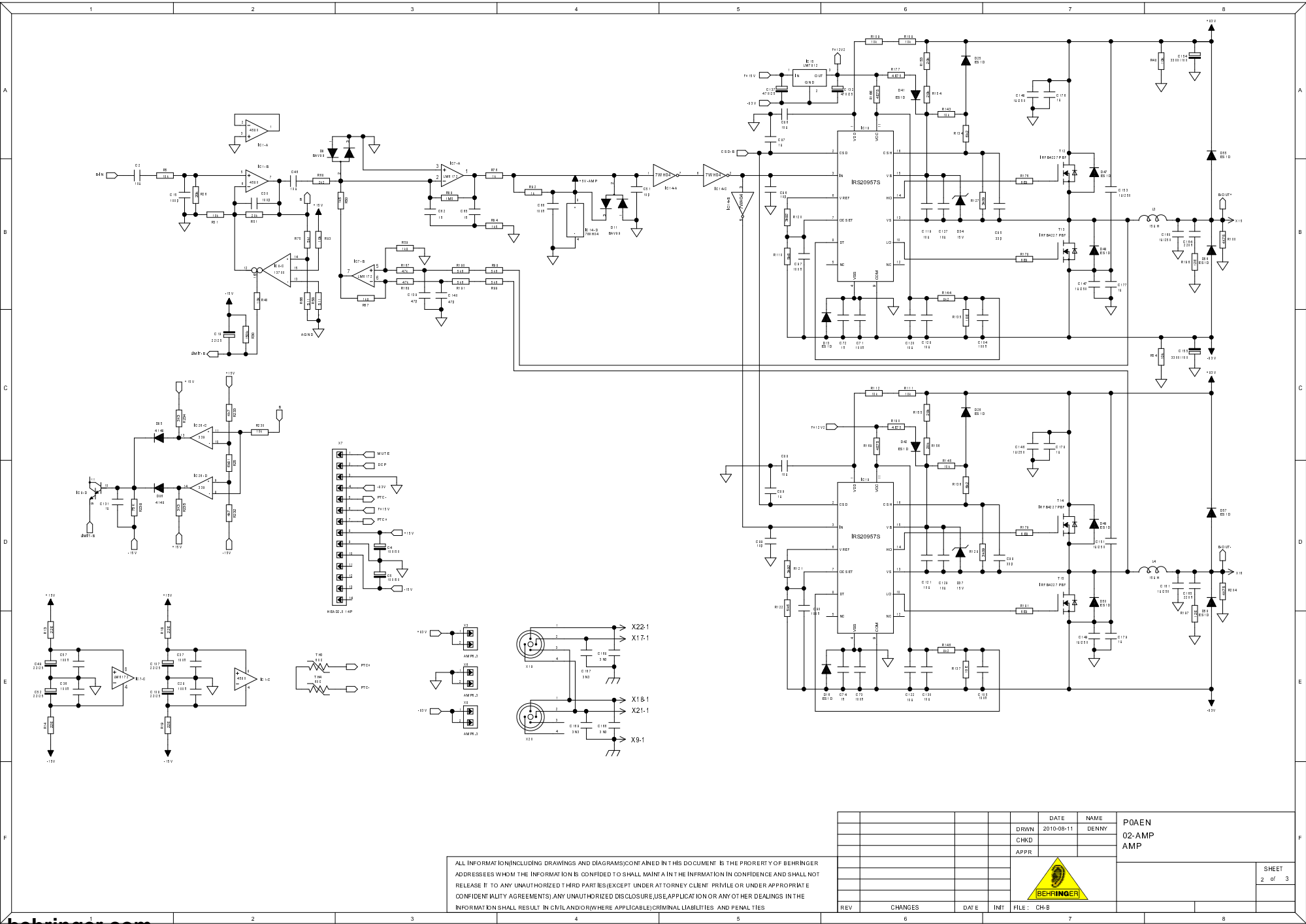
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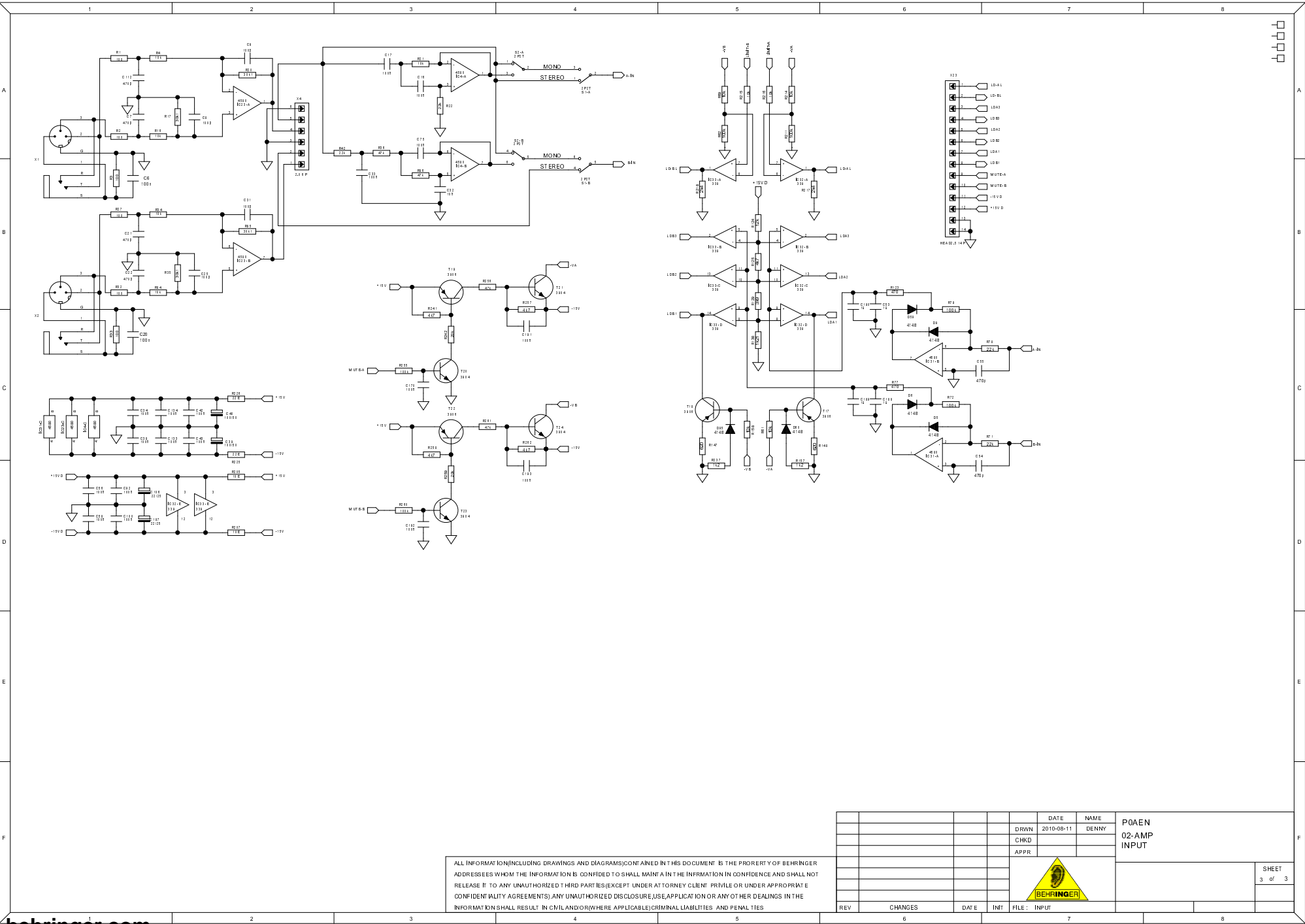
# iNUKE NU6000DSP

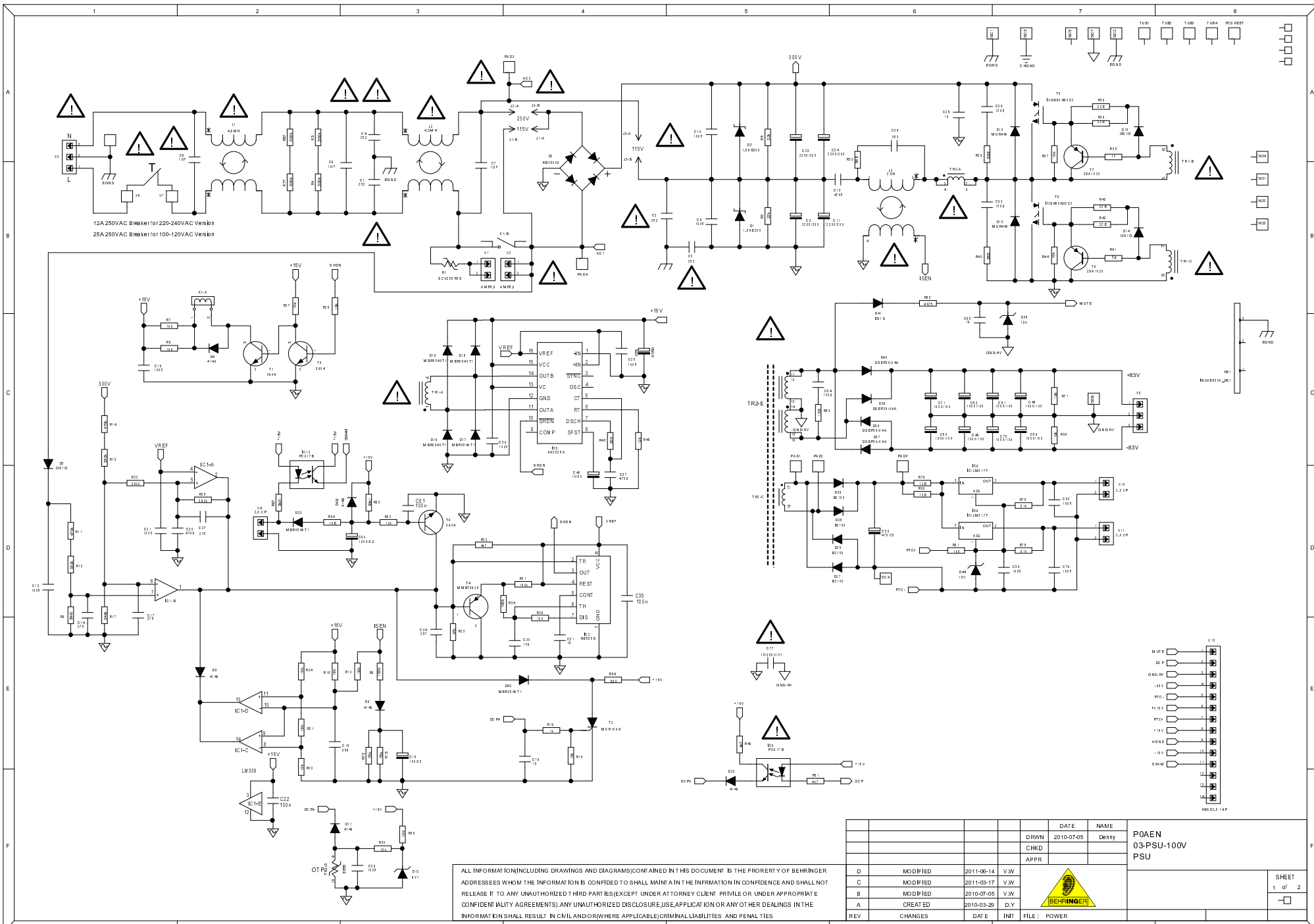
## Specifications

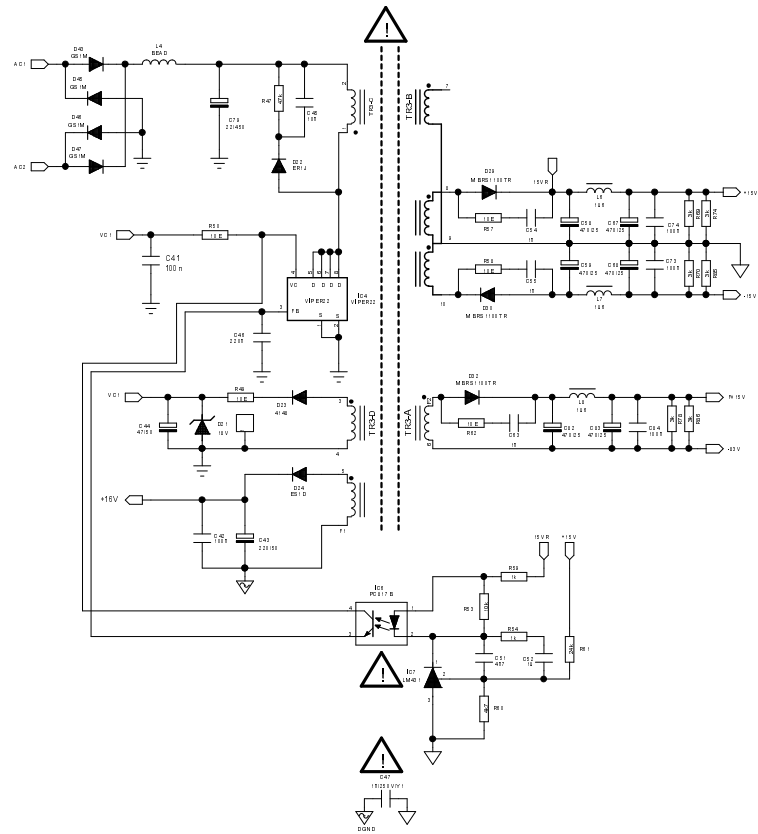
- Delivers 2 x 3000 Watts into 4 Ohms, 2 x 1500 Watts into 8 Ohms and weighs less than 12 lbs / 5.5 kg
- Ultimate reliability through revolutionary cool-running High-Density Class-D technology with "near-zero" thermal buildup
- Ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption
- High-performance DSP and 24-bit/96 kHz converters deliver ultimate signal integrity and extreme dynamic range
- DSP section features sophisticated delay, crossover (3 filter types, up to 48 dB/octave), EQ (8 parametric, 2 dynamic), dynamics processing and lockable security settings
- Front panel LCD display enables setup and adjustment without PC
- Can be set up, controlled and monitored via front panel USB connector. Powerful remote software downloadable at [behringer.com](http://behringer.com)
- "Zero-Attack" limiters offer maximum output level with reliable overload protection
- Built-in Subwoofer/Satellite crossover for perfect subwoofer operation
- Detented and illuminated gain controls for precise level setting
- Precise 4-segment Signal and Limit LEDs to monitor performance
- XLR and 1/4" TRS combination input connectors for compatibility with any source
- Professional twist-lock speaker connectors for ultimate reliability
- Independent DC, LF and thermal overload protection on each channel automatically protects amplifier and speakers without shutting down the show
- "Back-to-front" ventilation system prevents thermal buildup for reliable operation
- High-quality components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany






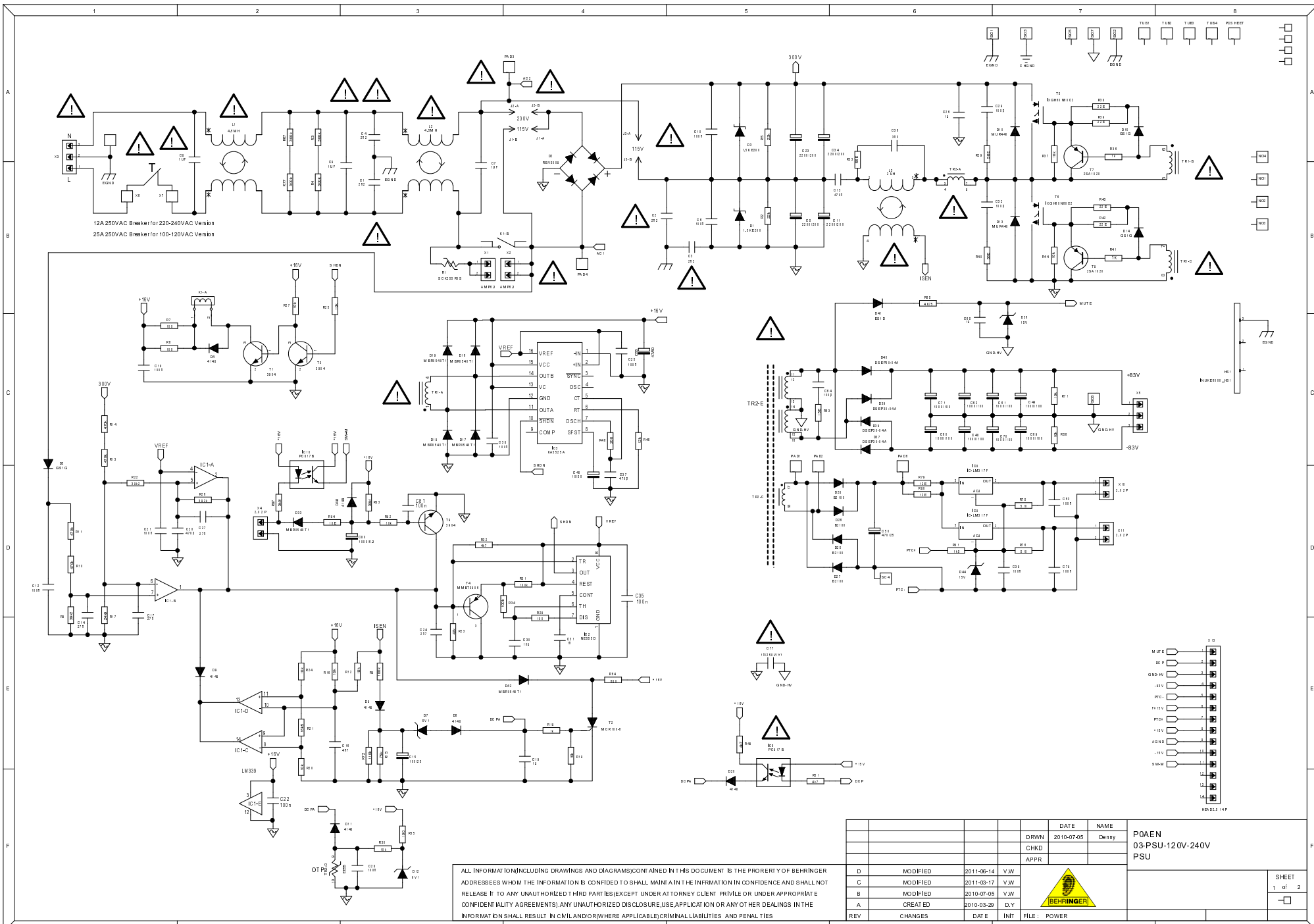




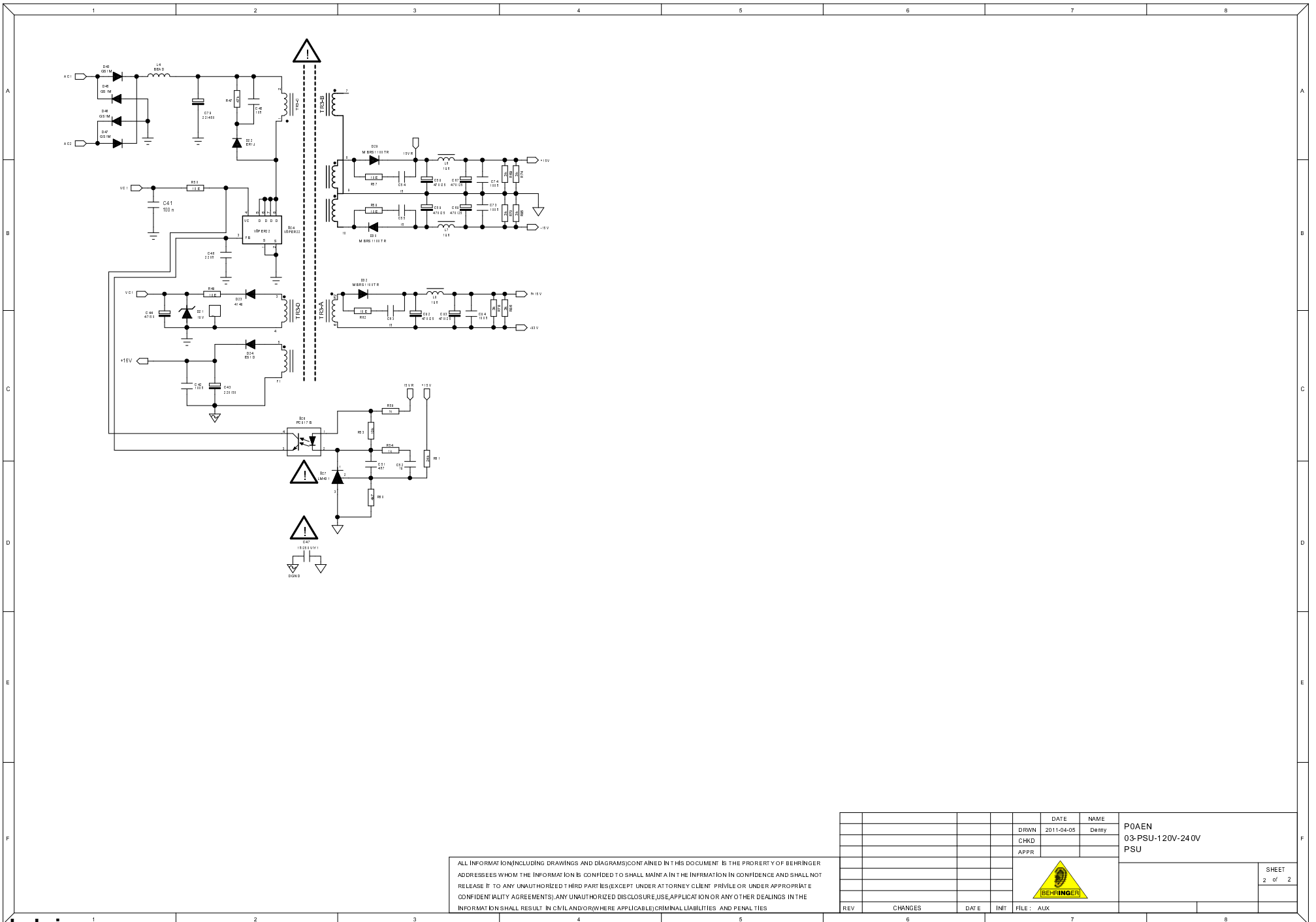


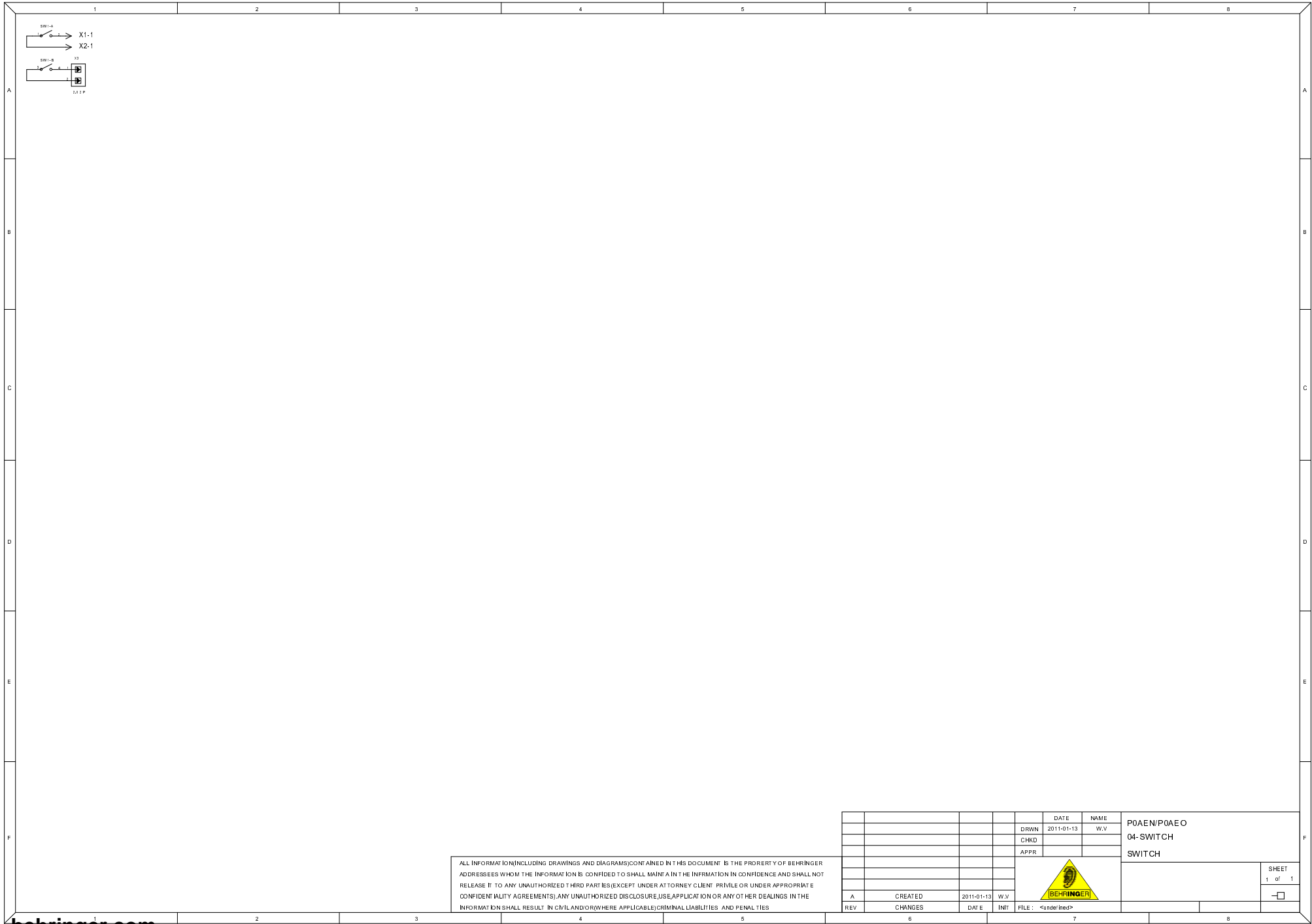
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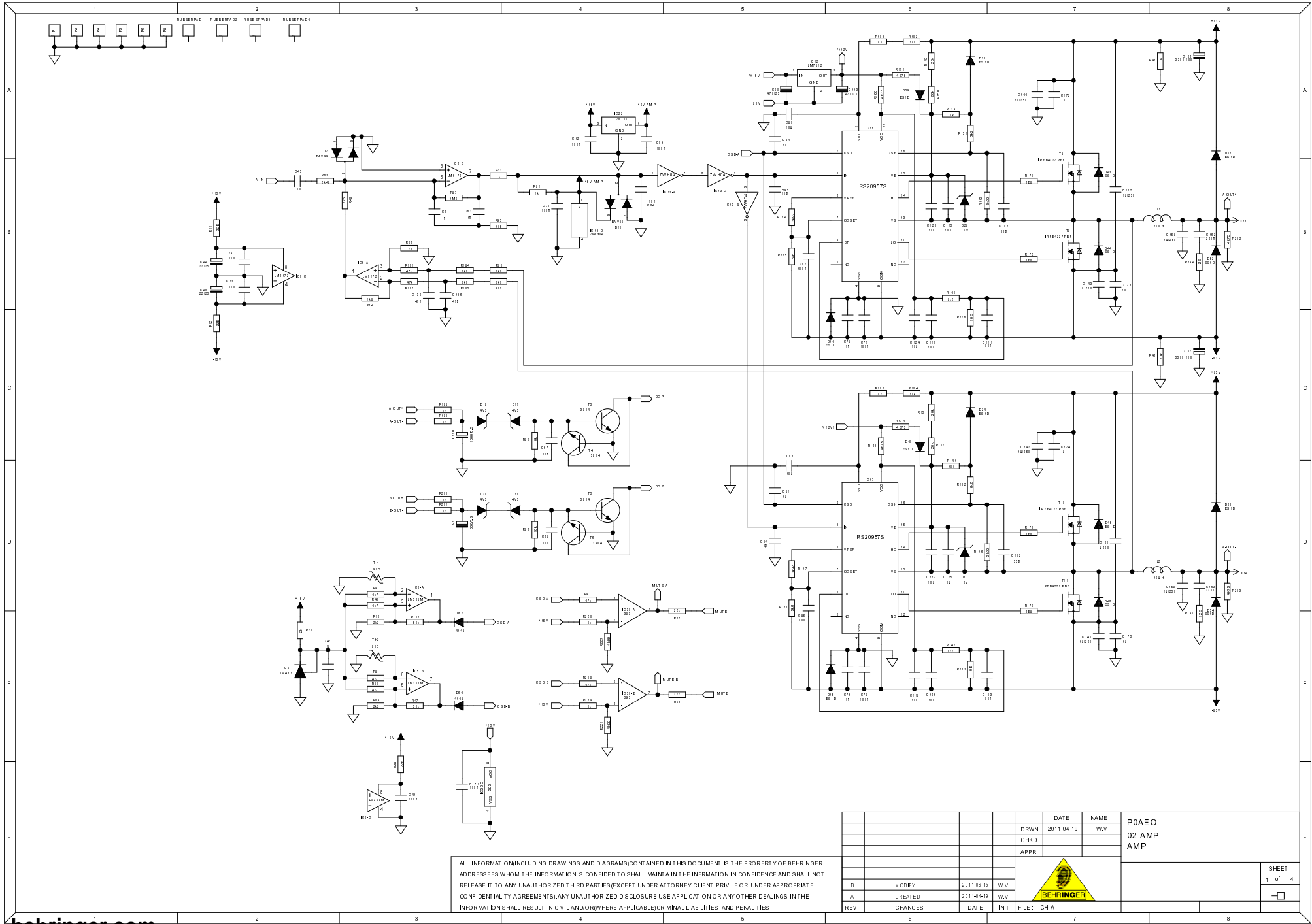
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			CHK'D					
			APPR					
								
REV	CHANGES	DATE	INIT	FILE : ALX				

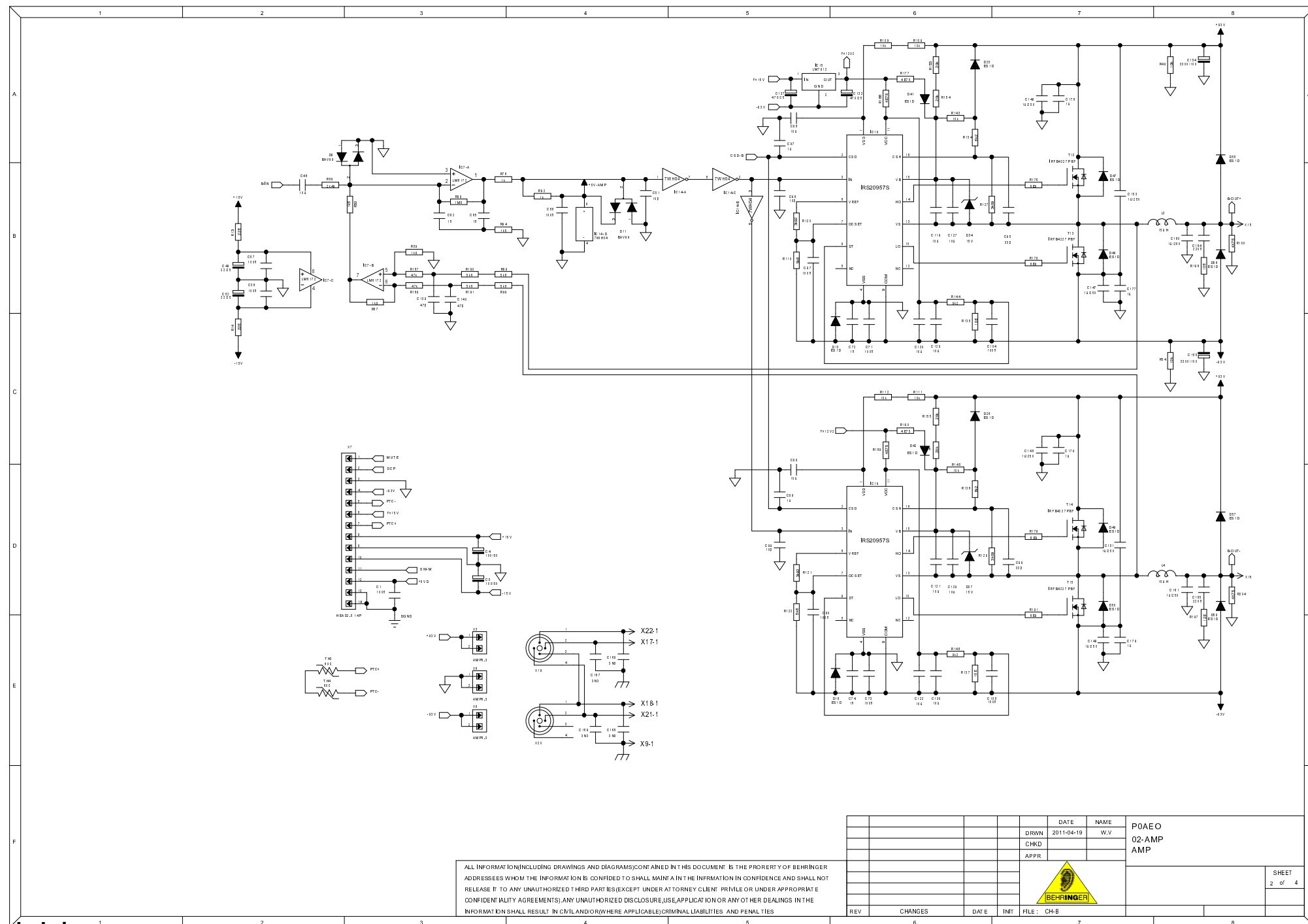


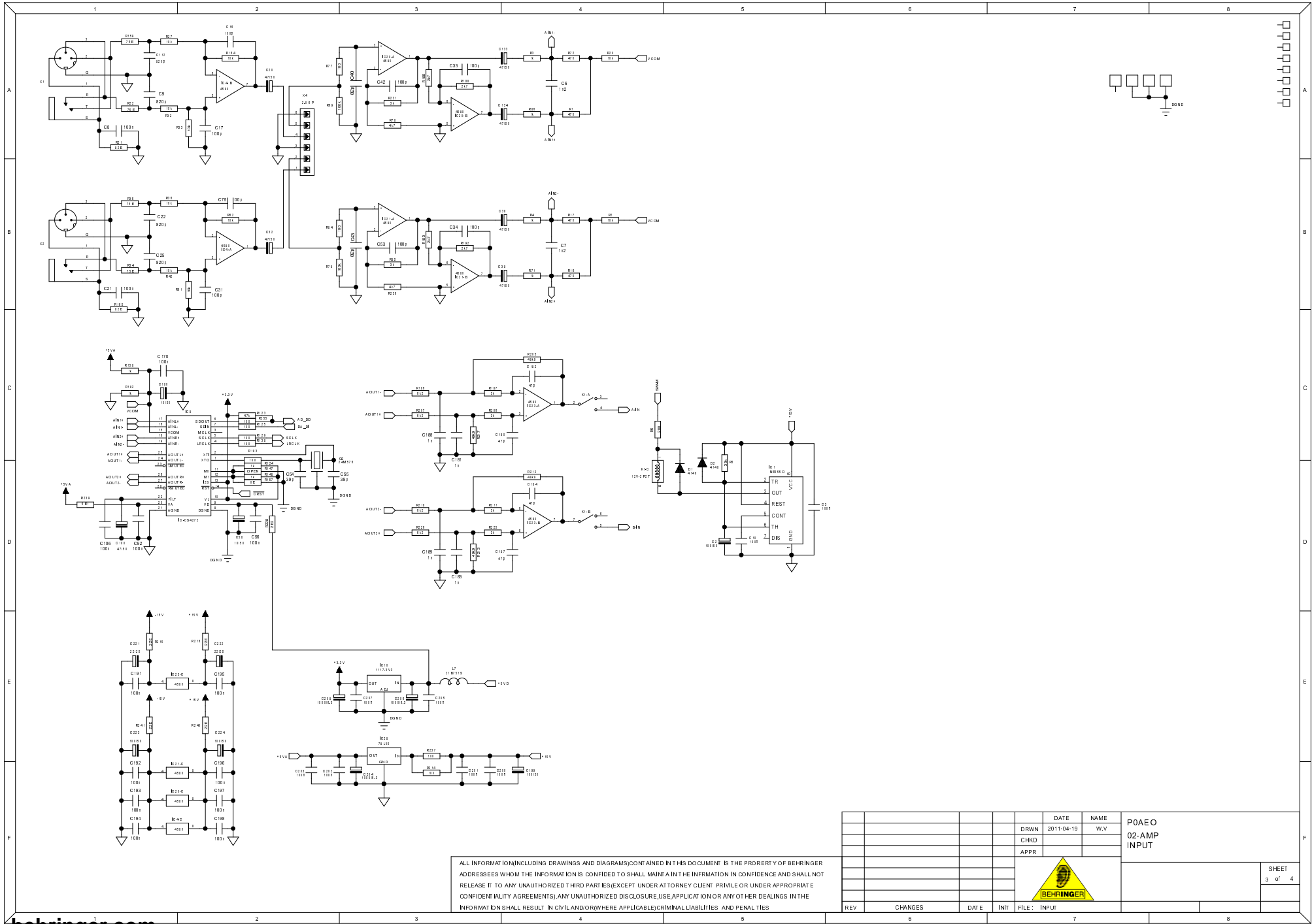


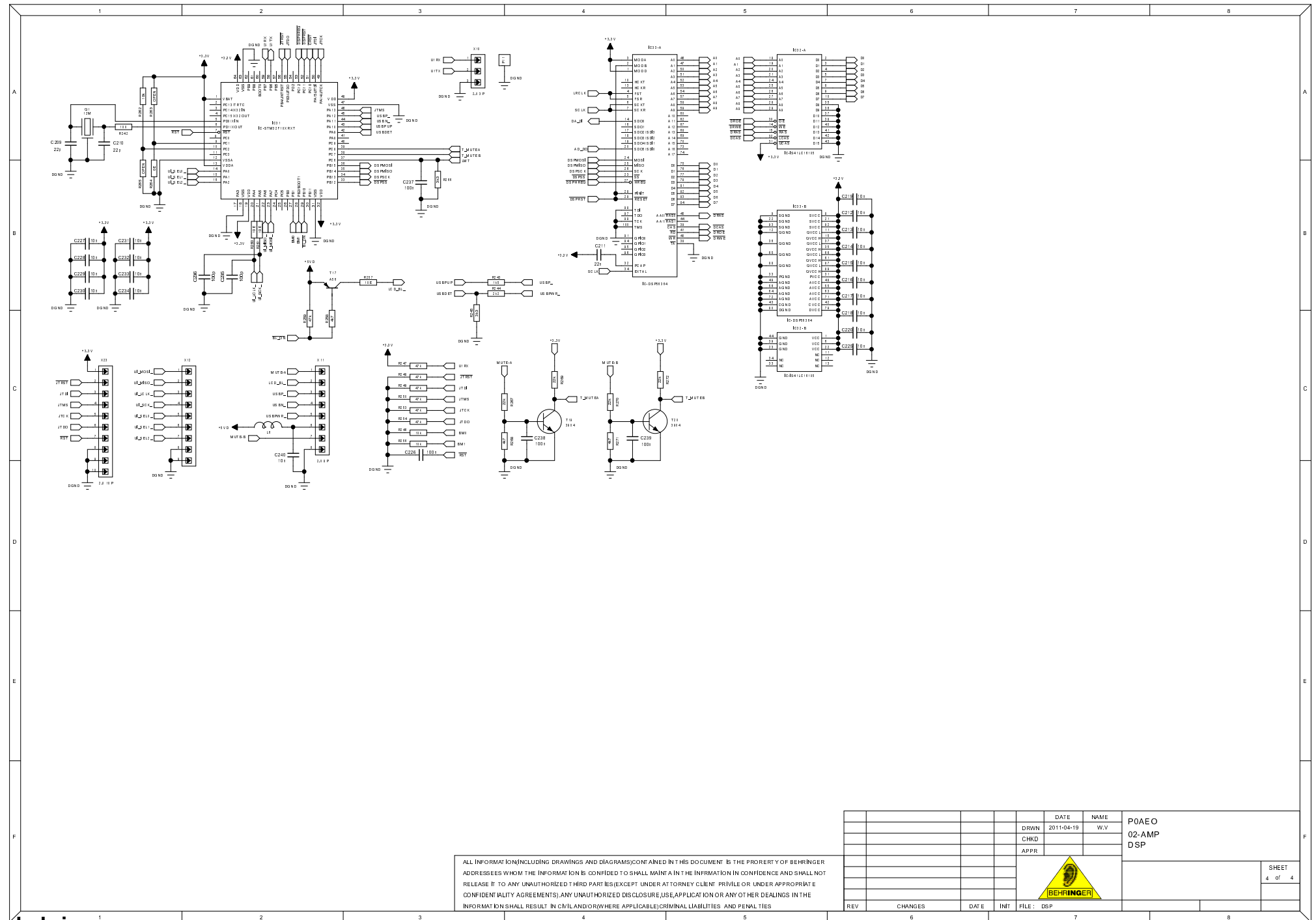


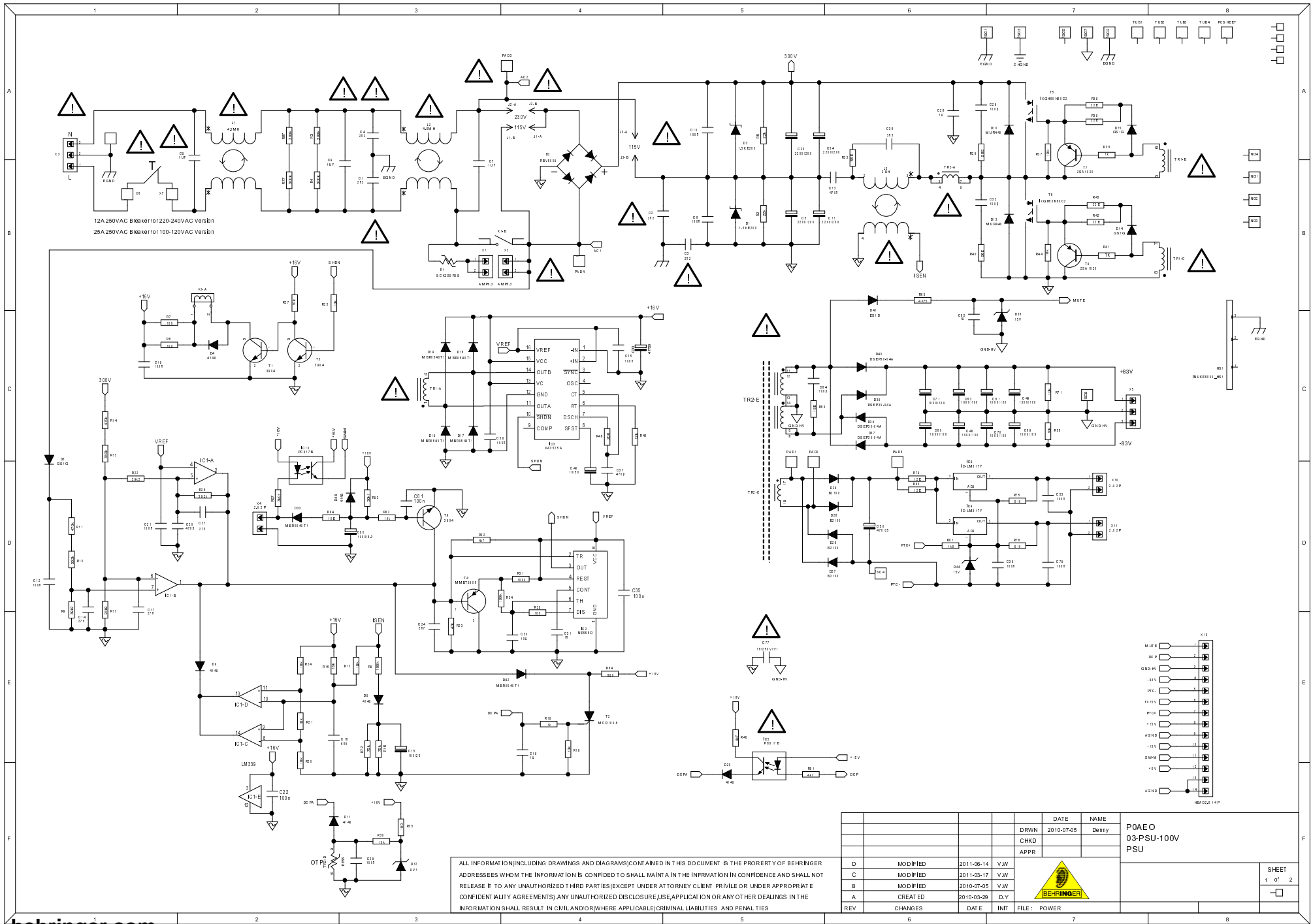








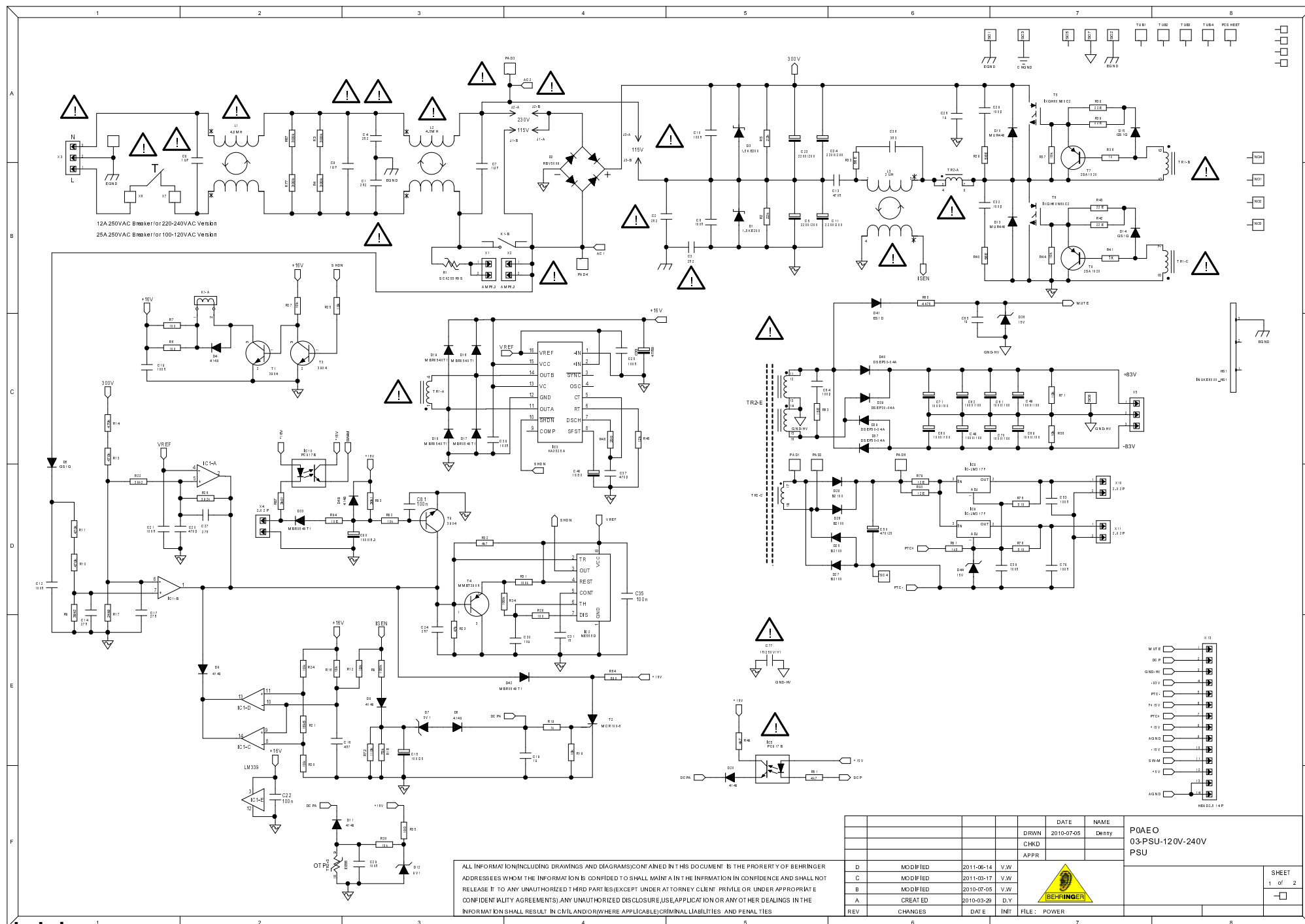


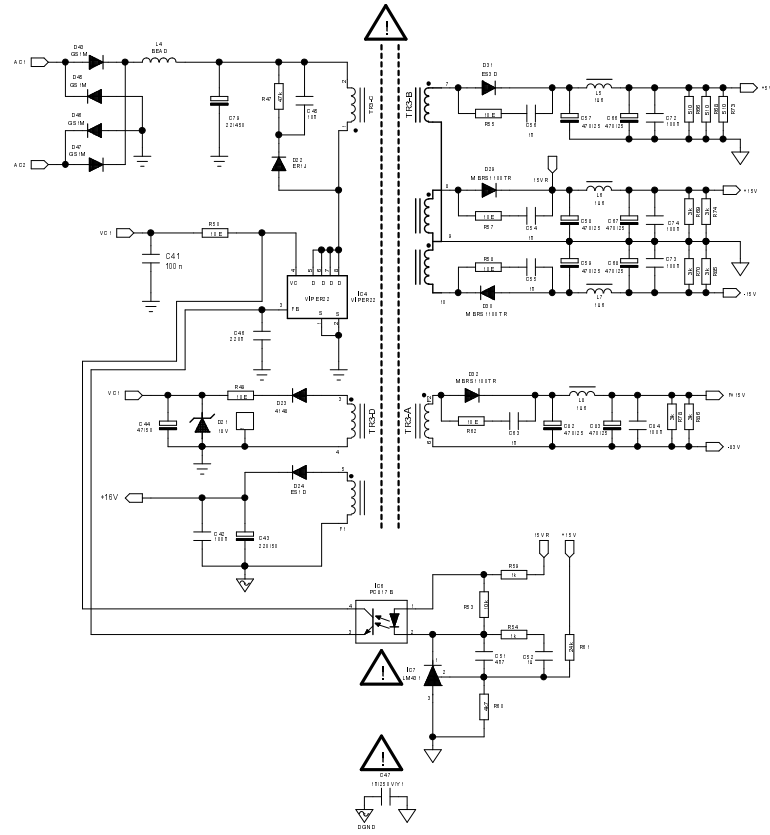





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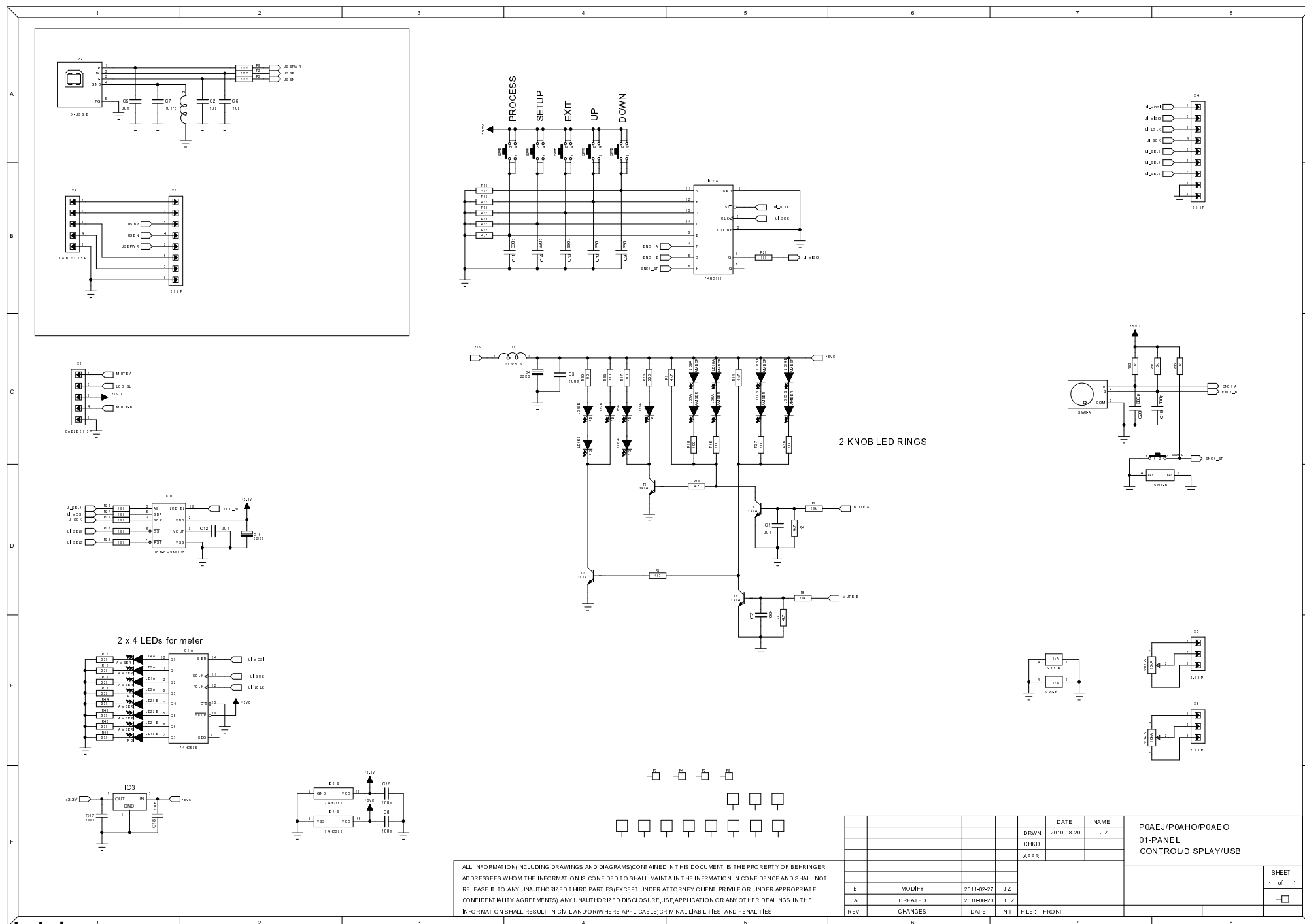


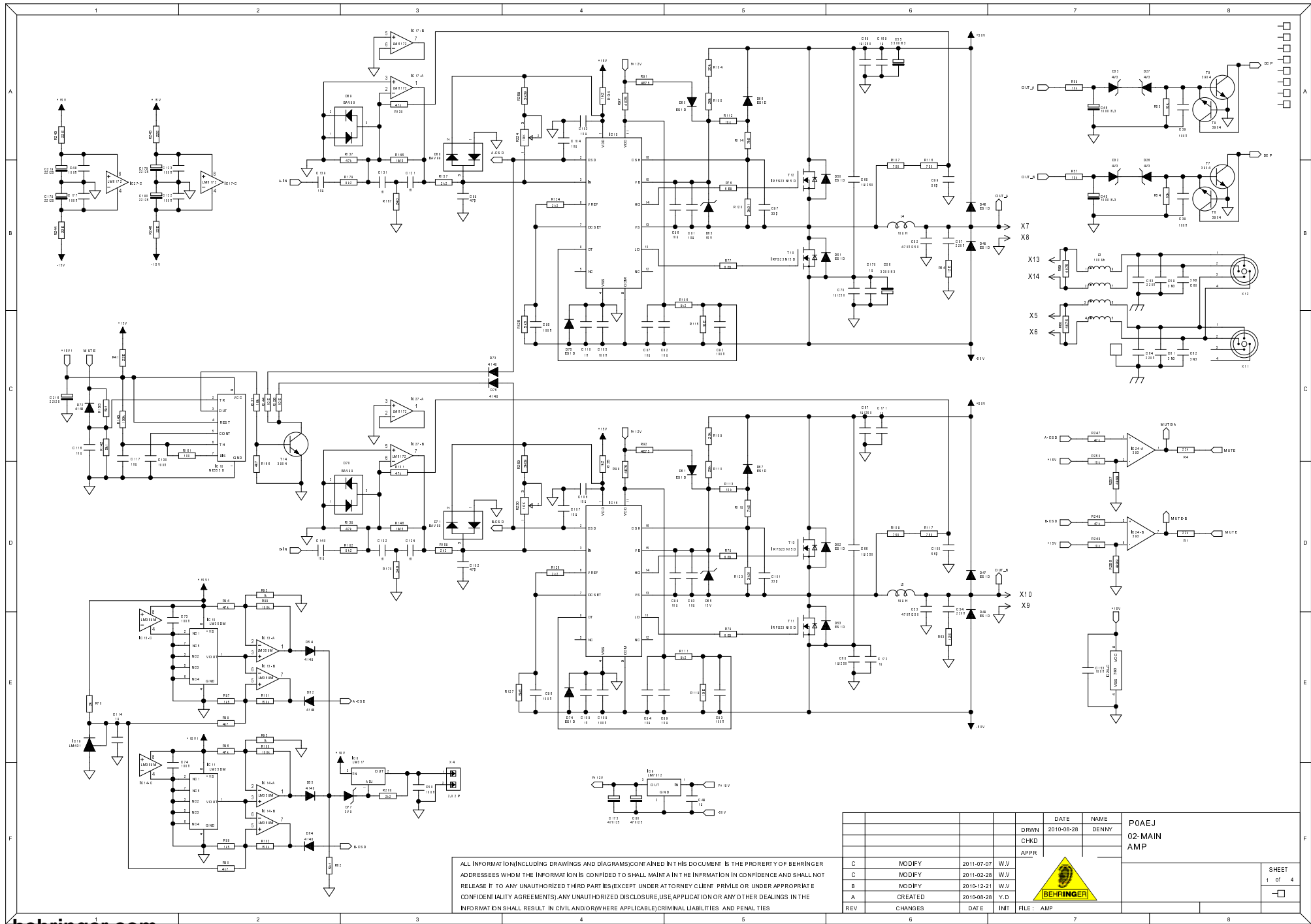




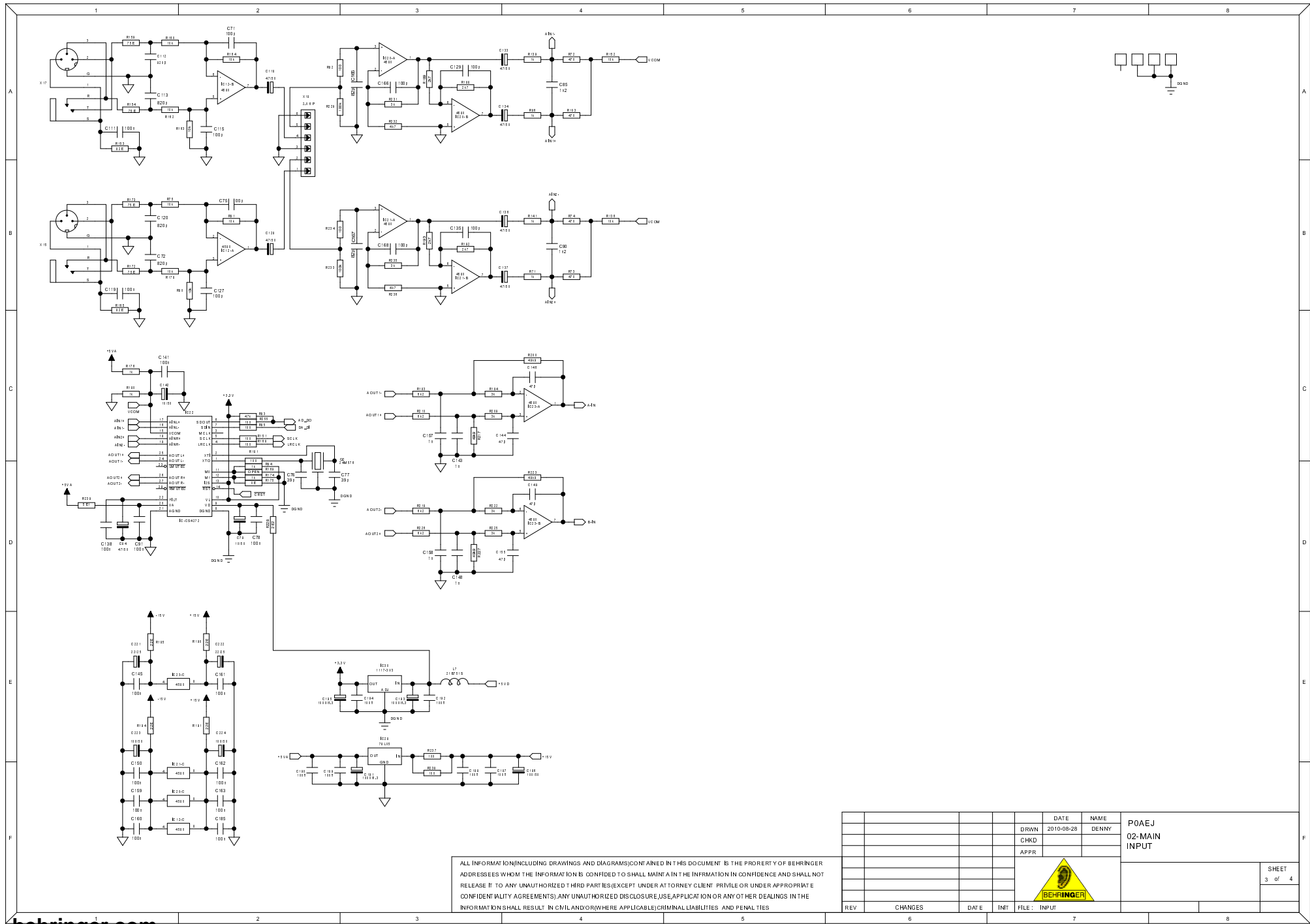
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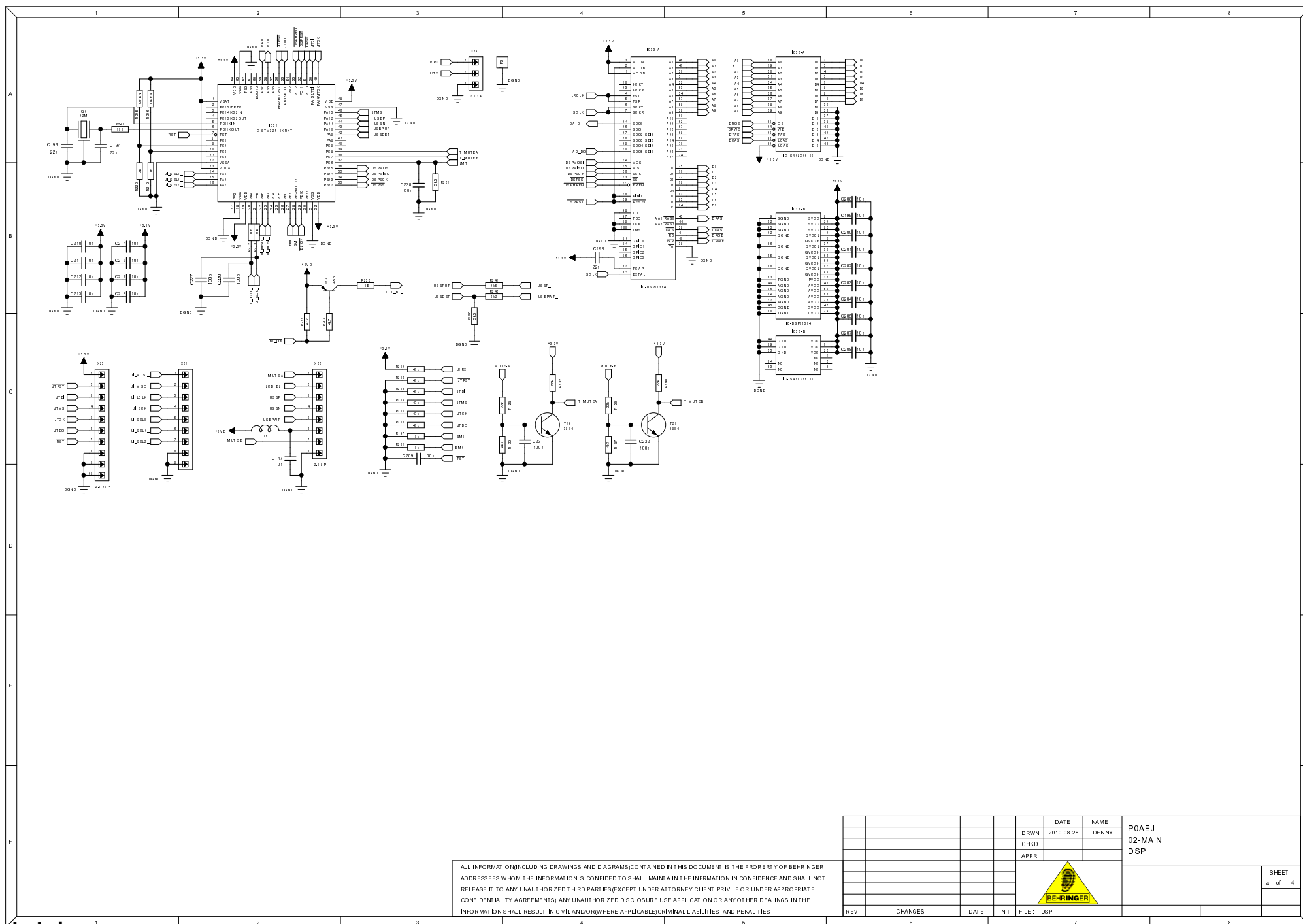
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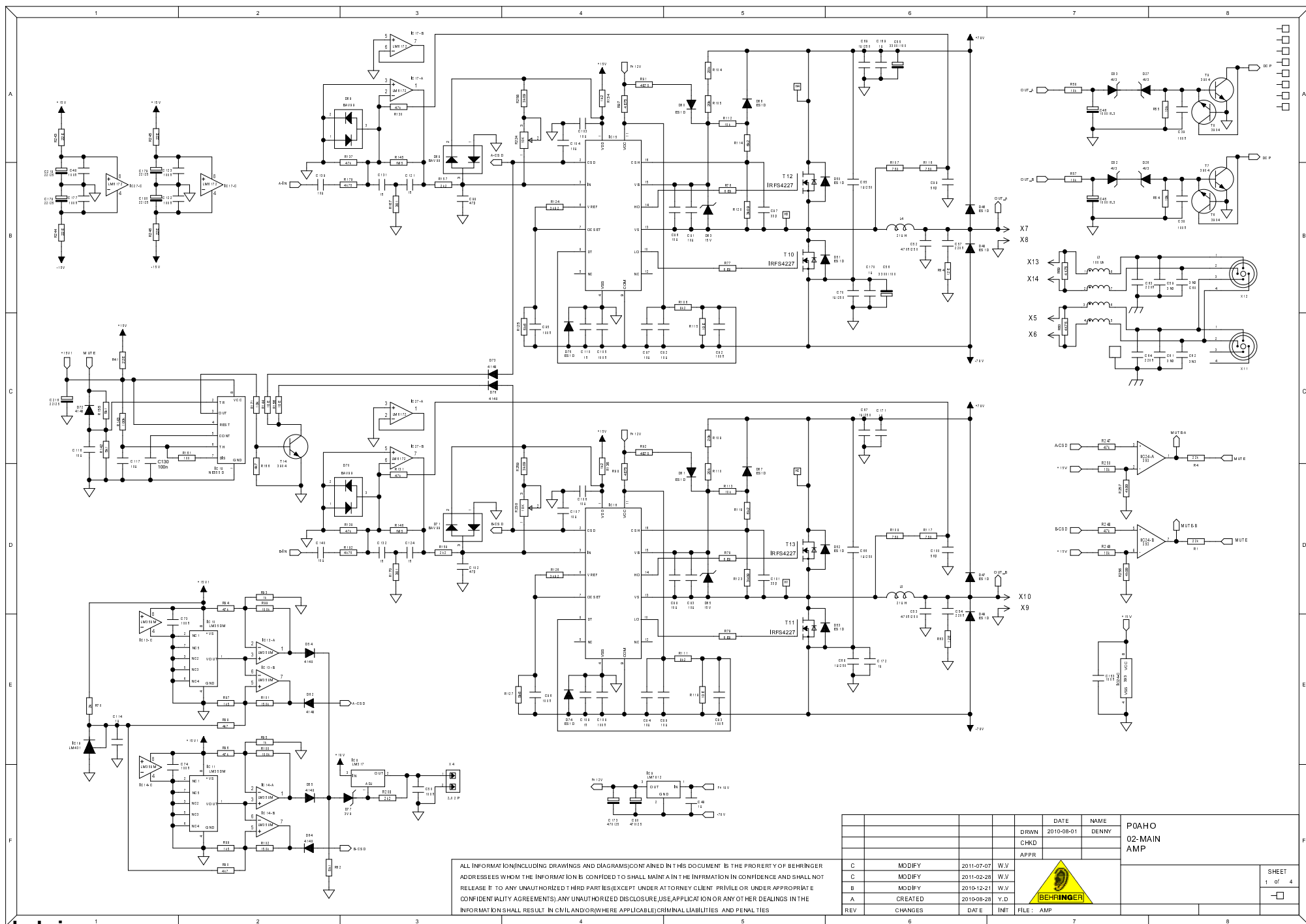




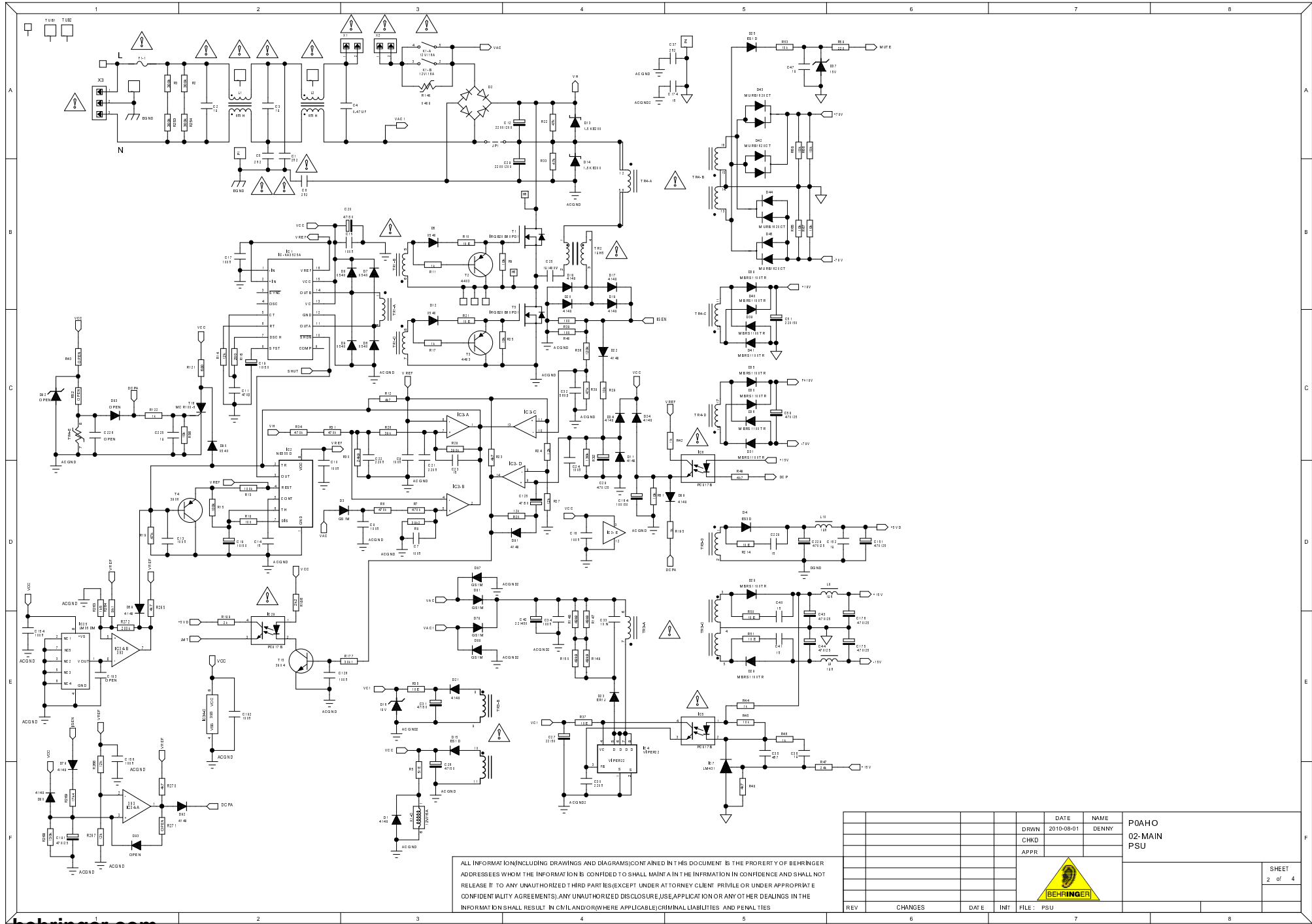


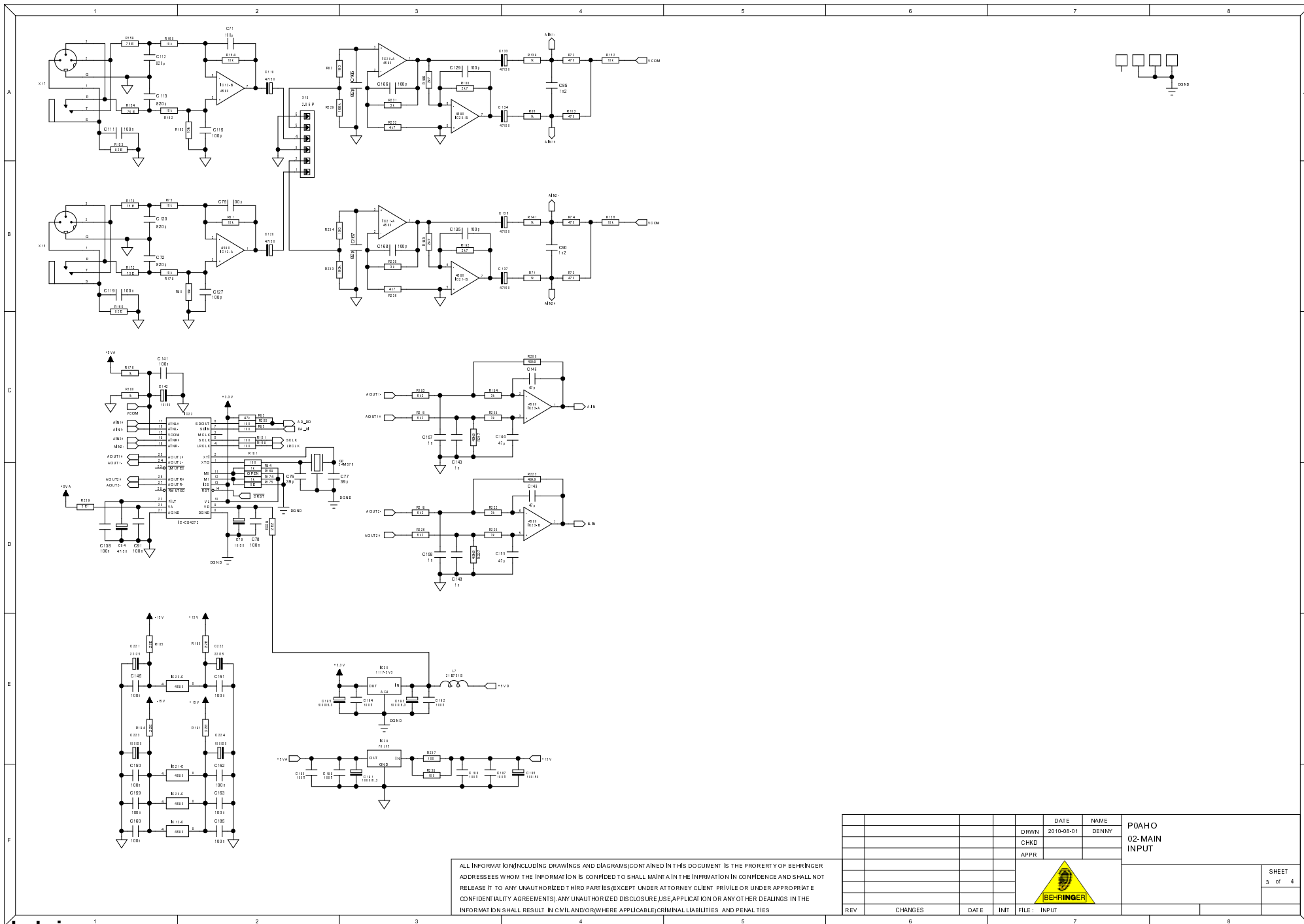


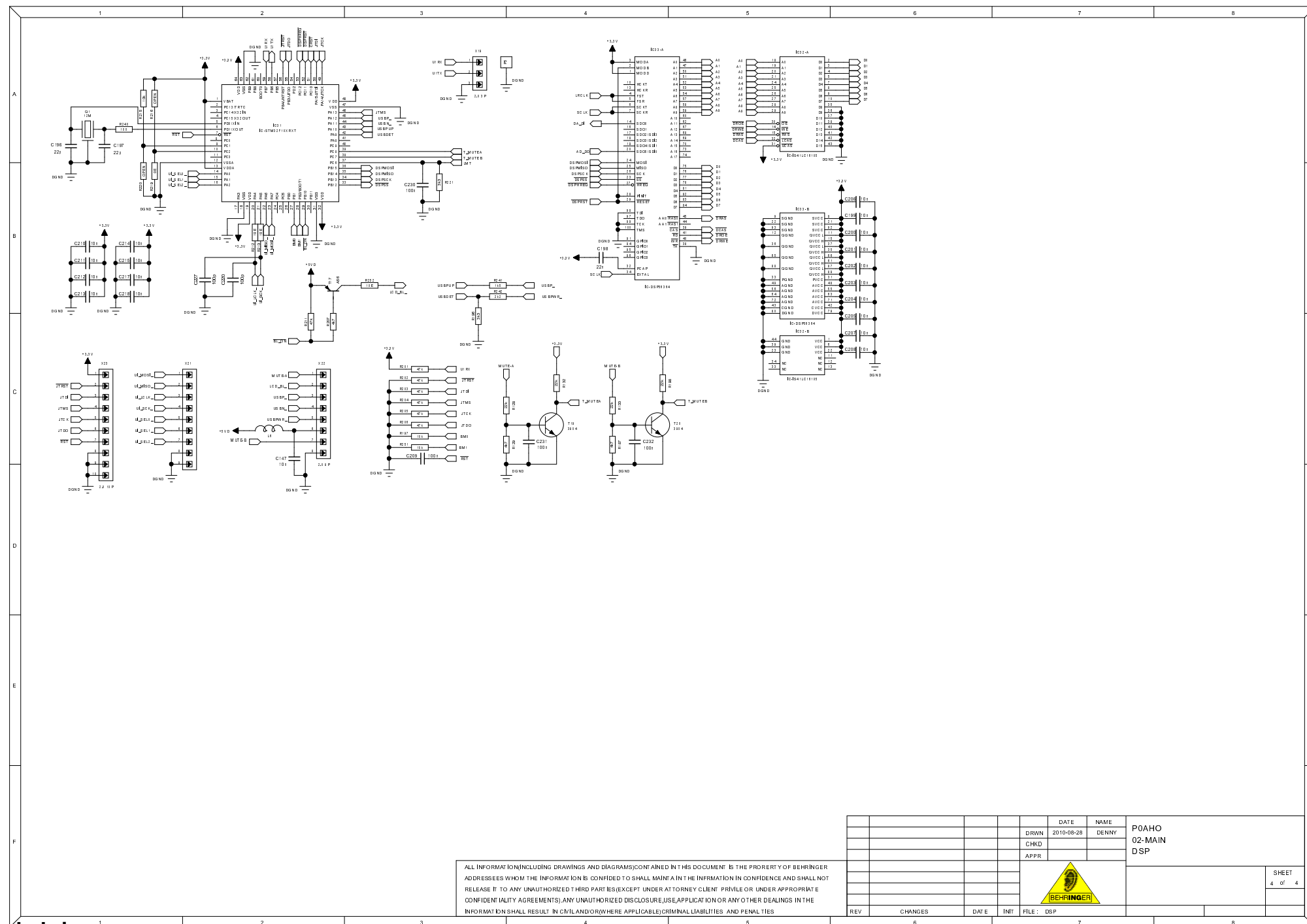












**Pcbs**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	G40-00000-29006		PCB;2 LAYER;P0AEN;4;A;113011;POWER SW	[P0AEN:04: {1.0}]	
2	1.0000	G42-00000-28155		642:PCB, MULTILAYER;P0AEJ;1;B;127021;CTRL	[P0AEJ:01: {1.0}]	
3	1.0000	G42-00000-40219		642:PCB, MULTILAYER;P0AEO;2;B;115061;AMP	[P0AEO:02: {1.0}()]	
4	1.0000	G40-00000-40217		PCB;2 LAYER;P0AEN;3;D;114061;PSU;2OZ	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
5	1.0000	G40-00000-40217		PCB;2 LAYER;P0AEN;3;D;114061;PSU;2OZ	[P0AEO:03: {1.0}()]	

**Assembly**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	2.0000	A31-00000-26278		FAN;BRUSHLESS;BP802512;3110KL-04W-B70;Cable:300mm;w/PHS2.0;NMB		

**Cable**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	A71-18004-06054		CABLE;USB2.0;BLACK;UL2725;COLOR:BLACK;LENGTH:1800mm +/- 40mm;DIA:4mm;CONNECTORS:USB/B TO USB/A;DOUBLE SHIELDING;MAGNET		
2	1.0000	A77-00000-24200		CABLE;STRANDWIRE;AWG:16;UL1015;2;130 MM;TWO SIDE:S/T 5mm;TWIST	[POAEO:02: {1.0}{}]	
3	1.0000	A77-00000-24201		CABLE;STRANDWIRE;AWG:16;UL1672;2;180 MM;S/T 5mm; 6.3mm AMP-CONNECTOR;TWIST	[POAEN:04: {1.0}{}]	
4	1.0000	A77-00000-24204		CABLE;STRANDWIRE;AWG:16;UL1015;2;280 MM;TWO SIDE: 5mm;TWIST	[POAEO:02: {1.0}{}]	
5	1.0000	A77-00000-39803		CABLE;STRANDWIRE;AWG:16;UL1015;BLACK;30 MM;ST-WIRE AWG16;BK	[POAEO:02: {1.0}{}]	
6	1.0000	A77-00000-39804		CABLE;STRANDWIRE;AWG:18;UL1015;BLACK;100 MM;ST-WIRE ,AWG 18;UL1005;BK		
7	1.0000	A77-00000-42351		CABLE;STRANDWIRE;AWG:14;UL1015;COMMON;BLACK; 40 MM;AWG14,UL1015,BLACK,One Side 5mm Other side lug 3.2		
8	1.0000	A81-00000-12572		WIRE HARNESS;AWG:26;UL1007;2 MM;5;50 MM;PIN1 RED;2XP1018	[POAEJ:01: {1.0}{}]	
9	1.0000	A81-00000-20147		WIRE HARNESS;AWG:26;UL1007;2 MM;2;350 MM;A2006H;P1018;ADD INSULATION CANNULA	[POAEN:04: {1.0}{}]	
10	1.0000	A81-00000-25887		WIRE HARNESS;AWG:24;UL2468;2 MM;9;260 MM;PIN1 RED;A2006H;P1018	[POAEJ:01: {1.0}{}]	
11	1.0000	A81-00000-25888		WIRE HARNESS;AWG:24;UL2468;2 MM;8;160 MM;PIN1 RED;A2006H;P1018	[POAEJ:01: {1.0}{}]	
12	1.0000	A81-00000-29954		WIRE HARNESS;AWG:26;UL2547;2 MM;6;550 MM;PIN1 RED;A2006H-06;2XP1018;PIN3 and PIN6 SHIELD	[POAEJ:01: {1.0}{}]	
13	1.0000	A77-00000-24203		CABLE;STRANDWIRE;AWG:16;UL1015;3;160 MM;BLACK/BLUE/RED;S/T:5mm; 6mm AMP-CONNECTOR ISOLATED;TWIST	[POAEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
14	1.0000	A76-00000-01873		CABLE;AC-CORD;AWG:14;UL1571;3;1500 MM;CABL:AC-CORD;3P;AWG14;150cm		(UL)
15	1.0000	A76-15020-00253		CABLE;AC-CORD;CLASS II;JAPAN;W/POLYBAG;LENGTH:150cm;POLES:3;APPROV AL:PSE;PLUGS:M744 + VCTF 3x2.0mm2 + V1625BS;(VOLEX 052603/2)		(JP)
16	1.0000	A76-15010-05754		CABLE;AC-CORD;W/POLYBAG;LENGTH:150cm;H05VV-F 3G 3x1mm2;VERSION:EU		(EU)
17	1.0000	A76-00000-05307		CABLE;AC-CORD;3;BR;1500 MM;Plug + Connector:375+730;H05VV-F 3G1.0		(BR1)
18	2.0000	A77-00000-03134		CABLE;STRANDWIRE;AWG:16;UL1672;COMMON;120 MM;BLUE;S/T 5mm;6.3mm AMP	[POAEO:03: {2.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
19	1.0000	A76-15040-05756		CABLE;AC-CORD;W/POLYBAG;LENGTH:150cm;H05VV-F3G 1mm2;VERSION:UK		(UK)

	Quantity	Item	Rev	Description	Reference Designators	Notes
20	1.0000	A76-00000-13575		CABLE;AC-CORD;3;AR;1500 MM;Plug + Connector:321+730;H05VV-F 3G1.0		(AR)
21	2.0000	A77-00000-03134		CABLE;STRANDWIRE;AWG:16;UL1672;COMMON;120 MM;BLUE;S/T 5mm;6.3mm AMP	[P0AEO:03: {2.0}{}]	
22	1.0000	A76-15060-05755		CABLE;AC-CORD;W/POLYBAG;LENGTH:150cm;POLES:3;227 IEC 53 (RVV) 3x1mm2;VERSION:CCC		(CCC)
23	1.0000	A76-18050-05757		CABLE;AC-CORD;LENGTH:180cm;PLUG:HE105 ISOLATED;SAA H05VV-F 3x1mm2;CONN.HP-3;VERSION:SAA		(SAA)
24	1.0000	A77-00000-24203		CABLE;STRANDWIRE;AWG:16;UL1015;3;160 MM;BLACK/BLUE/RED;S/T:5mm; 6.mm AMP-CONNECTOR ISOLATED;TWIST	[P0AEO:03: {1.0}{}]	
25	1.0000	A74-00000-26890		CABLE;FLAT;AWG:28;UL2651;2.54 MM;14;150 MM;PIN1 RED;FC-14P;FD-14P	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
26	1.0000	A74-00000-26890		CABLE;FLAT;AWG:28;UL2651;2.54 MM;14;150 MM;PIN1 RED;FC-14P;FD-14P	[P0AEO:03: {1.0}{}]	

### Circuit Protector

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	B20-00000-39637		CIRCUIT BREAKER;12 A;V;RONGFENG;RFLB;TRIP TIME 10s+/-5s2 TIMES OVERLOAD		(EU, UK, SAA, CCC, AR, BR1)
2	1.0000	B20-00000-39640		CIRCUIT BREAKER;25 A;V;RONGFENG;RFLB;TRIP TIME 10s+/-5s2 TIMES OVERLOAD		(UL, JP)

**Coil**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	4.0000	B37-00000-23921		COIL;CHOKE;15 uH;P0AEN COIL T130-2 L:15uH+/-10%1KHZ,0.25V SG	[P0AEO:02: {4.0}()]	
2	4.0000	B39-00000-03394		COIL;SMD;BEAD;SMD0805;(BLM21BD751SN1D)	[P0AEJ:01: {2.0}()] [P0AEO:02: {2.0}()]	
3	1.0000	B40-00000-42961		COIL;TOROID;22 uH;25.8X28.5X12.8 MM;RH25.8X28.5X12.8 K4D	[P0AEO:02: {1.0}]	
4	1.0000	B40-00000-42962		COIL;TOROID;21 uH;17.5X28.5X9.5 MM;RH17.5X28.5X9.5 K4D	[P0AEO:02: {1.0}]	
5	1.0000	B44-31500-04970		FERRITE BEAD;RH3.5*0.8*4.7-F5B	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
6	4.0000	B37-00000-27712		COIL;CHOKE;R3X10;2.4uH+/-30%1KHZ,0.25V	[P0AEO:03: {4.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
7	1.0000	B37-00000-28561		COIL;CHOKE;2 uH;T157-2 L:2uH+/-10%1KHZ,0.25V	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
8	1.0000	B37-00000-27090		COIL;CHOKE;1 mH;COIL T12.7X7.9X6.35 L:1.0mH MIN1KHZ,0.25V	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
9	1.0000	B44-31500-04970		FERRITE BEAD;RH3.5*0.8*4.7-F5B	[P0AEO:03: {1.0}()]	
10	1.0000	B37-00000-28561		COIL;CHOKE;2 uH;T157-2 L:2uH+/-10%1KHZ,0.25V	[P0AEO:03: {1.0}()]	
11	2.0000	B37-00000-28557		COIL;CHOKE;2.8 mH;T38(37)X22X15 L:2.8mH MIN1KHZ,0.25V;CLICK	[P0AEO:03: {2.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
12	2.0000	B37-00000-28557		COIL;CHOKE;2.8 mH;T38(37)X22X15 L:2.8mH MIN1KHZ,0.25V;CLICK	[P0AEO:03: {2.0}()]	
13	1.0000	B37-00000-27090		COIL;CHOKE;1 mH;COIL T12.7X7.9X6.35 L:1.0mH MIN1KHZ,0.25V	[P0AEO:03: {1.0}()]	
14	4.0000	B37-00000-27712		COIL;CHOKE;R3X10;2.4uH+/-30%1KHZ,0.25V	[P0AEO:03: {4.0}()]	

**Connector**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	2.0000	B80-00000-21788		SPEAKON;H=24mm;with M3 NUT	[P0AEO:02: {2.0}{}]	
2	1.0000	B83-00000-12138		USB;B-TYPE;180 DEGREE	[P0AEJ:01: {1.0}{}]	
3	2.0000	B95-00000-19168		CONNECTOR;XLR;12;XLR&6.35 COMBO;RIGHT ANGLE	[P0AEO:02: {2.0}{}]	
4	5.0000	B84-39000-03120		CONNECTOR;AMP;PCB;PCB MOUNT;PITCH:5mm;WIDTH:6mm3	[P0AEO:03: {2.0}{}] [P0AEO:02: {3.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
5	1.0000	B93-00000-29798		BARE WIRE;DIA:1MM;L:7.5MM;PRE-CUT:3.3MM		(EU, UK, SAA, CCC, AR, BR1)
6	2.0000	B93-00000-29798		BARE WIRE;DIA:1MM;L:7.5MM;PRE-CUT:3.3MM	[P0AEO:03: {2.0}{}]	(UL, JP)
7	2.0000	B93-00000-29798		BARE WIRE;DIA:1MM;L:7.5MM;PRE-CUT:3.3MM		
8	5.0000	B84-39000-03120		CONNECTOR;AMP;PCB;PCB MOUNT;PITCH:5mm;WIDTH:6mm3	[P0AEO:03: {2.0}{}] [P0AEO:02: {3.0}{}]	



**Diode**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	4.0000	C11-07030-09902		DIODE;BAV99;SOT23	[P0AEO:02: {4.0}{}]	
2	4.0000	C12-14200-04303		DIODE;ZMM04V3;SMD1206	[P0AEO:02: {4.0}{}]	
3	1.0000	C14-51775-00800		DIODE;BRIDGE;RBV5008;800V;50A	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
4	1.0000	C11-20430-00124		DIODE;SUPERFAST;ER1J;600V;1A;35NS;DO-214AA;SMD	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
5	1.0000	C12-14200-09103		DIODE;ZMM09V1;SMD1206	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
6	1.0000	C14-51775-00800		DIODE;BRIDGE;RBV5008;800V;50A	[P0AEO:03: {1.0}{}]	
7	6.0000	C12-14200-15003		DIODE;ZMM15V0;SMD1206	[P0AEO:03: {2.0}{}] [P0AEO:02: {4.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
8	6.0000	C12-14200-15003		DIODE;ZMM15V0;SMD1206	[P0AEO:03: {2.0}{}] [P0AEO:02: {4.0}{}]	
9	1.0000	C12-14200-05103		DIODE;ZMM05V1;SMD1206	[P0AEO:03: {1.0}{}]	(EU, UL, UK, SAA, CCC, AR, BR1)
10	1.0000	C13-20430-03403		DIODE;ES3D;DO-214AB	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
11	1.0000	C12-14200-09103		DIODE;ZMM09V1;SMD1206	[P0AEO:03: {1.0}{}]	
12	4.0000	C13-00000-25853		DIODE;RECTIFIER;SMA;1A;1000V;GS1MW	[P0AEO:03: {4.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
13	2.0000	C11-08000-20063		DIODE;1.5KE200A;DO201AD	[P0AEO:03: {2.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
14	6.0000	C10-18700-54083		DIODE;SCHOTTKY;SS0540;SOD123;SMD	[P0AEO:03: {6.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
15	2.0000	C11-08000-20063		DIODE;1.5KE200A;DO201AD	[P0AEO:03: {2.0}{}]	
16	6.0000	C10-18700-54083		DIODE;SCHOTTKY;SS0540;SOD123;SMD	[P0AEO:03: {6.0}{}]	
17	11.0000	C11-09014-14802		DIODE;LL4148;LL34;TEMIC OR FC	[P0AEO:03: {7.0}{}] [P0AEO:02: {4.0}{}]	(JP)
18	33.0000	C14-20430-00024		DIODE;SUPERFAST;ES1D;200V;1A;15NS;DO-214AC;SMD	[P0AEO:03: {5.0}{}] [P0AEO:02: {28.0}{}]	(EU, UL, UK, SAA, CCC, AR, BR1)
19	4.0000	C13-12550-030A2		DIODE;IXYS;DSEP30-04A;400V;30A;TO-247AD	[P0AEO:03: {4.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
20	3.0000	C11-20370-00124		DIODE;GP;GS1G;400V;1A;DO-214AC;SMD	[P0AEO:03: {3.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
21	2.0000	C11-08330-44021		DIODE;SUPERFAST;MUR440;400V;4A;60NS;DO-201AD	[P0AEO:03: {2.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
22	1.0000	C12-14200-18003		DIODE;ZMM18V0;SMD1206	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)

	Quantity	Item	Rev	Description	Reference Designators	Notes
23	30.0000	C14-20430-00024		DIODE;SUPERFAST;ES1D;200V;1A;15NS;DO-214AC;SMD	[P0AEO:03: {2.0}{}] [P0AEO:02: {28.0}{}]	(JP)
24	1.0000	C11-20430-00124		DIODE;SUPERFAST;ER1J;600V;1A;35NS;DO-214AA;SMD	[P0AEO:03: {1.0}{}]	
25	2.0000	C11-08330-44021		DIODE;SUPERFAST;MUR440;400V;4A;60NS;DO-201AD	[P0AEO:03: {2.0}{}]	
26	1.0000	C12-14200-18003		DIODE;ZMM18V0;SMD1206	[P0AEO:03: {1.0}{}]	
27	3.0000	C11-20370-00124		DIODE;GP;GS1G;400V;1A;DO-214AC;SMD	[P0AEO:03: {3.0}{}]	
28	4.0000	C13-12550-030A2		DIODE;IXYS;DSEP30-04A;400V;30A;TO-247AD	[P0AEO:03: {4.0}{}]	
29	3.0000	C11-19141-10030		DIODE;MBRS1100TR;IR	[P0AEO:03: {3.0}{}]	(JP)
30	1.0000	C13-20430-03403		DIODE;ES3D;DO-214AB	[P0AEO:03: {1.0}{}]	
31	4.0000	C10-00000-12620		DIODE;SCHOTTKY;100 V;SMB;B2100	[P0AEO:03: {4.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
32	4.0000	C13-00000-25853		DIODE;RECTIFIER;SMA;1A;1000V;GS1MW	[P0AEO:03: {4.0}{}]	
33	4.0000	C10-00000-12620		DIODE;SCHOTTKY;100 V;SMB;B2100	[P0AEO:03: {4.0}{}]	
34	12.0000	C11-09014-14802		DIODE;LL4148;LL34;TEMIC OR FC	[P0AEO:03: {8.0}{}] [P0AEO:02: {4.0}{}]	(EU, UL, UK, SAA, CCC, AR, BR1)

## Display

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	C25-00000-20106		DISPLAY;LCD;128*32; NEGATIVE;iNUKE	[P0AEJ:01: {1.0}{}]	

**Hardware**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	8.0000	F83-04000-00021		CABLE TIE;NYLON;4in;COLOR:		
2	0.3000	F84-03000-01090		SCREWLOCK;SPEC.NO:01090		
3	1.0000	F85-04000-44001		HEX. NUT;INNER DIA;M4mm;SURFACE:ZINC		
4	4.0000	F87-00000-48383		RUBBER;BLACK;POAEN THERMAL RESISTOR PAD	[POAEO:02: {4.0}{0}]	
5	4.0000	F88-00000-22569		SCREW;25 (BT);3 MM;7 MM;FLAT;SILVER;PHILIPS REC.;BET3*7		
6	8.0000	F88-00000-23246		SC;B5*8;PAN;BLACK		
7	17.0000	F88-03064-2029A		SCREW;M3mm*6mm;HEAD:PAN SPRING WASHER;INSERT:PHILIPS REC.;SURFACE:SILVER/NIC		
8	6.0000	F88-30060-30297		SCREW;M3mm*6mm;HEAD:PAN;INSERT:PHILLIPS REC.;SURFACE:BLACK/ZINC		
9	4.0000	F88-30060-50277		SCREW;M3mm*6mm;PITCH:0mm5;HEAD:FLAT;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		
10	10.0000	F88-30060-50291		SCREW;M3mm*6mm;HEAD:FLAT;INSERT:PHILIPS REC.;SURFACE:ZINC		
11	24.0000	F88-30080-30237		SCREW;B3mm*8mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		
12	5.0000	F88-30120-30297		SCREW;M3mm*12mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		
13	3.0000	F88-30150-30297		SCREW;M3mm*15mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		
14	4.0000	F88-40060-30297		SCREW;M4mm*6mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		
15	4.0000	F89-32023-00194		INSULATION SHEET;TO247 W/HOLE;ALUMINIUM OXIDE CERAMIC INSULATOR;THICKNESS:2mm03;HOLE DIAMETER:3mm96;(LANXIN)		
16	1.0000	F91-02020-05792		SILICA GEL;MASS;20g;SPEC.NO:20QB-BB2001-4		
17	1.0000	F96-00000-10098		WASHER;4 MM;9 MM;NICKEL;SILVER;M4;EXT_TEETH;LOCKING_WASHER		
18	1.0000	F96-20400-70170		WASHER;SPRING;INNER DIA:4mm;OUTER DIA:7mm;THICKNESS;1mm7		
19	1.0000	F97-00000-21446		INSULATION SHEET;FIBER SHEET1;POAEN		
20	1.0000	F97-00000-21447		INSULATION SHEET;FIBER SHEET2;POAEN		
21	1.0000	F97-00000-21448		INSULATION SHEET;FIBER SHEET3;POAEN		
22	2.0000	F97-00000-26098		INSULATION SHEET;AL OXIDE;30*30*2;W/O HOLE		
23	1.0000	F97-00000-28512		INSULATION SHEET;FIBER SHEET4;POAEN		
24	8.0000	F97-00000-36815		INSULATION SHEET;27 MM;WHITE;AL OXIDE;1mm,27x14x1		
25	7.8000	F84-01800-09286		THERM-GREASE;COLOR:WHT;SPEC.NO:09286	[POAEO:03: {1.2}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)

	Quantity	Item	Rev	Description	Reference Designators	Notes
					<b>[P0AEO:02: {1.5}]</b>	
26	1.0000	F97-00000-31591		INSULATION SHEET;BLACK;SILICON SLEEVE FOR BRIDGE;T:0.5mm;UL94V0	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
27	0.0500	F95-20005-00000		SHRINKING TUBE;INNER DIA:20mm;THICKNESS:0mm5	[P0AEO:03: {0.05}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
28	1.0000	F97-00000-31591		INSULATION SHEET;BLACK;SILICON SLEEVE FOR BRIDGE;T:0.5mm;UL94V0	[P0AEO:03: {1.0}()]	
29	0.0500	F95-20005-00000		SHRINKING TUBE;INNER DIA:20mm;THICKNESS:0mm5	[P0AEO:03: {0.05}()]	TUB2: 0.025mm; TUB4: 0.04mm
30	7.8000	F84-01800-09286		THERM-GREASE;COLOR:WHT;SPEC.NO:09286	[P0AEO:03: {1.2}]	
					<b>[P0AEO:02: {1.5}]</b>	
31	0.0150	F95-00000-08106		SHRINKING TUBE;12 MM;BLACK;HIGH TEMPERATURE,Dia. 12mm;150C	[P0AEO:03: {0.015}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
32	0.0800	F95-01000-43217		SHRINKING TUBE;INNER DIA;1mm;SPEC.NO:43217	[P0AEO:03: {0.08}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
33	0.0800	F95-01000-43217		SHRINKING TUBE;INNER DIA;1mm;SPEC.NO:43217	[P0AEO:03: {0.08}]	0.02*4
34	0.0150	F95-00000-08106		SHRINKING TUBE;12 MM;BLACK;HIGH TEMPERATURE,Dia. 12mm;150C	[P0AEO:03: {0.015}()]	

## Ic

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	4.0000	C73-00000-29050		IC;OPAMP;SMD;SOP;8;BA4580RF	[P0AEO:02: {4.0}()]	
2	1.0000	C73-55035-80508		IC;OPAMP OPAMP;LM358;SOP 8D	[P0AEO:02: {1.0}()]	
3	2.0000	C73-55617-27408		IC;OPAMP;LM6172IM;SO;PIN:8	[P0AEO:02: {2.0}()]	
4	2.0000	C77-00000-19127		IC;VOLT.REGULATOR;DDPAK;3;LM7812	[P0AEO:02: {2.0}()]	
5	1.0000	C77-00152-03001		IC;VOLT.REGULATOR;78FC33HT1;3V3 120mA;SOT89	[P0AEJ:01: {1.0}()]	
6	1.0000	C77-03128-03001		IC;VOLT.REGULATOR;NCP1117ST33T3;SOT223	[P0AEO:02: {1.0}()]	
7	2.0000	C77-05152-03001		IC;VOLT.REGULATOR;78L05;SOT89	[P0AEO:02: {2.0}()]	
8	1.0000	C78-55039-32208		IC;COMPARATOR;LM393;SOIC	[P0AEO:02: {1.0}()]	
9	1.0000	D17-06024-01224		IC;DRAM;IS41LV16105C-50TLI ;1M x 16;TSOP40;SMD;BF	[P0AEO:02: {1.0}()]	
10	1.0000	D18-96636-41800		IC;DSP;56364;TQFP	[P0AEO:02: {1.0}()]	
11	1.0000	D19-00037-06553		IC;FLASH;STM32F103RCT6;LQFP64	[P0AEO:02: {1.0}()]	
12	2.0000	D22-00070-42608		IC;INVERTER BUFFER;TOSHIBA;TC7WH04FU;SSOP8-P-0.65	[P0AEO:02: {2.0}()]	
13	1.0000	D22-31016-50516		IC;LOGIC;74HC165;SOP	[P0AEJ:01: {1.0}()]	
14	1.0000	D22-31059-50520		IC;LOGIC;74HC595;SOP	[P0AEJ:01: {1.0}()]	
15	1.0000	D28-54427-20628		IC;DIGITAL AUDIO;CS4272;AUDIO CODEC;TSSOP28	[P0AEO:02: {1.0}()]	
16	4.0000	D28-64295-72216		IC;IRS20957S;SOIC	[P0AEO:02: {4.0}()]	
17	1.0000	C78-55133-90514		IC;COMPARATOR;(SGS ONLY);LM339;SOP;SMD	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
18	2.0000	C74-55031-71403		IC;VOLT.REGULATOR;LM317F;TO220 FULL	[P0AEO:03: {2.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
19	1.0000	D30-22002-20108		IC;SWITCH/MULTIPLEX;VIPER22ADIP;DIP-8	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
20	2.0000	D24-16055-57408		IC;MICROCONTROLLER;NE555D;SO8	[P0AEO:03: {1.0}()] [P0AEO:02: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
21	1.0000	C74-36100-60803		IC;POWER CONVERSION;MCR100-6RLG;TO92;TAPE	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
22	1.0000	C74-36100-60803		IC;POWER CONVERSION;MCR100-6RLG;TO92;TAPE	[P0AEO:03: {1.0}()]	
23	2.0000	C77-00128-03000		IC;VOLT.REGULATOR;ZENERSHUNT.REGULATOR;SOT23;LM431ACM3/N1	[P0AEO:03: {1.0}()] [P0AEO:02: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
24	2.0000	C77-00128-03000		IC;VOLT.REGULATOR;ZENERSHUNT.REGULATOR;SOT23;LM431ACM3/N1	[P0AEO:03: {1.0}()] [P0AEO:02: {1.0}()]	
25	1.0000	C71-20352-50116		IC;DRIVER VOLTAGE-MODE PWM CONTROLLER;KA3525A;DIP	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
26	1.0000	C71-20352-50116		IC;DRIVER VOLTAGE-MODE PWM CONTROLLER;KA3525A;DIP	[P0AEO:03: {1.0}()]	

	Quantity	Item	Rev	Description	Reference Designators	Notes
27	2.0000	D24-16055-57408		IC;MICROCONTROLLER;NE555D;SO8	[P0AEO:03: {1.0}{}] [P0AEO:02: {1.0}{}]	
28	1.0000	D30-22002-20108		IC;SWITCH/MULTIPLEX;VIPER22ADIP;DIP-8	[P0AEO:03: {1.0}{}]	
29	1.0000	C78-55133-90514		IC;COMPARATOR;(SGS ONLY);LM339;SOP;SMD	[P0AEO:03: {1.0}{}]	
30	2.0000	C74-55031-71403		IC;VOLT.REGULATOR;LM317F;TO220 FULL	[P0AEO:03: {2.0}{}]	

## Led

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	8.0000	E10-00000-25912		LED HIB;3mm0 ROUND;RED;Len: RED Diffuse;lv:500mcd	[P0AEJ:01: {8.0}{}]	
2	6.0000	E10-00000-28393		LED HIB;3mm0 ROUND;AMBER;DIFFUSED;w/RING;605;lv:900mcd	[P0AEJ:01: {6.0}{}]	
3	8.0000	E10-51610-05431		LED;HIGH BRIGHT;3mm ROUND;AMBER;NO RING;WAVELENGTH:610nm	[P0AEJ:01: {8.0}{}]	

## Manual

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	A56-00000-56789		SERVICE INFORMATION SHEET;P0000;EN;Contact Information Sheet;EN;REV:002		
2	1.0000	A57-00003-12001		PRODUCT LEAFLET;FOR 2008 FULL LINE CATALOG		
3	1.0000	A52-00000-42338		WARRANTY CARD;P0000;EN;REV:001		(AR)
4	1.0000	A54-00000-45724		QUICK START GUIDE;P0AEJ;WW;REV:004		(EU, UL, UK, SAA, AR, BR1)
5	1.0000	A54-00000-45726		QUICK START GUIDE;P0AEJ;JA;REV:003		(JP)
6	1.0000	A54-00000-45728		QUICK START GUIDE;P0AEJ;ZH;REV:003		(CCC)
7	1.0000	A52-00000-40142		WARRANTY CARD;P0000;JA;DATE:01.07.2011;REVD		(JP)

**Metal Part**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	A65-00000-19986		METAL;P0AEM;FACE PLATE;REV:A		
2	1.0000	A65-00000-22589		METAL;P0AEJ;AMP SHIELD	[P0AEO:02: {1.0}{}]	
3	1.0000	A65-00000-23557		METAL;P0AEN;TOP COVER		
4	1.0000	A65-00000-47081		METAL;P0AEN;MN65;SPRING SHEET PSU S		
5	4.0000	A65-00000-47240		METAL;P0AEN;MN65;PUNCHING;SPRING SHEET AMP,REV C,Mn65,T=0.5MM		
6	3.0000	A65-00000-47242		METAL;P0AEN;MN65;PUNCHING;SPRING SHEET PSU REV C,Mn65,T=0.5MM		
7	2.0000	A65-09000-25912		METAL;FAN GUARD;DIAMETER:80mm;TYP:G;NO:01;SPEC.NO:25912		
8	1.0000	J05-00000-32744		METAL;P0AEO;CHASSIS;A001		
9	1.0000	A65-23000-24593		METAL CLIP;DSP2000;DWG.NO:24593;(R14-DSP2000- CLIP-REVC.DWG)	[P0AEO:03: {1.0}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
10	1.0000	A65-23000-24593		METAL CLIP;DSP2000;DWG.NO:24593;(R14-DSP2000- CLIP-REVC.DWG)	[P0AEO:03: {1.0}]	
11	1.0000	A65-00000-23558		METAL;P0AEN;PSU SHIELD	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
12	1.0000	A65-00000-23558		METAL;P0AEN;PSU SHIELD	[P0AEO:03: {1.0}{}]	

**Packaging Part**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	G25-00000-60289		POLYFOAM;P0AEM;REAR; REVB		
2	1.0000	G25-00000-60290		POLYFOAM;P0AEM;FRONT; REVB		
3	1.0000	G28-20090-14010		PE BAG;SIZE:9in*14in;W/WARNING		
4	1.0000	G28-20180-28010		PE BAG;SIZE:18in*28in;W/WARNING		
5	0.2500	I40-00000-38110		MASTER CARTON;P0AEO;A004		
6	1.0000	I46-00000-48984		GIFTBOX;P0AEO;A006		

**Plastic Part**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	4.0000	G51-01200-01762		FEET;RUBBER;STANDARD;SELF-ADHESIVE;COLOR:BLK;DWG.NO:01762		
2	1.0000	G52-00000-20109		PLASTIC;P0AEJ;ENCODER KNOB;REV:A		
3	1.0000	G52-00000-20110		PLASTIC;P0AEJ;LEFT BUTTON;REV:A		
4	1.0000	G52-00000-20112		PLASTIC;P0AEM;POWER BUTTON;REV:A		
5	4.0000	G54-00000-20117		PLASTIC;P0AEM;VOLUME PET FILM;REV:A		
6	1.0000	G54-00000-20191		PLASTIC;P0AEJ;LCD LENS;REV:A		
7	1.0000	G58-00000-20113		PLASTIC;P0AEJ;USB COVER;RUBBER;REV:B		
8	2.0000	G58-00000-20114		PLASTIC;P0AEM;VOLUME COVER;REV:A		
9	2.0000	G58-00000-20116		PLASTIC;P0AEM;VOLUME KNOB;REV:A		
10	2.0000	G58-00000-23466		PLASTIC;P0AEJ;VOLUME PIPE RING		
11	1.0000	G58-00000-31827		PLASTIC;P0AEM;HANDLE ASSY;LEFT;REV:A		
12	1.0000	G58-00000-31828		PLASTIC;P0AEM;HANDLE ASSY;RIGHT;REV:A		
13	1.0000	G58-00000-40254		PLASTIC;P0AEJ;ABS PA757;PANEL;SILVER;GREY;FRONT PANEL DSP;ABS		
14	8.0000	G58-00200-11095		PLASTIC;LEDSPACER 9.5mm;P0502;DST.NO:002;DPT.NO:11095;(P0502-LEDSPACER_9.5mm-REVB.DWG)	[P0AEJ:01: {8.0}]	
15	1.0000	I62-00000-28246		PLASTIC;P0AEJ;RIGHT;BUTTON;A001		
16	1.0000	I68-00000-32720		PLASTIC;P0AEO;FRONT_STRIP;A003		
17	10.0000	G53-00000-46325		PLASTIC;P0AEN;SILICON RUBBER;SHEET;BLACK;RUBBER SHEET AMP	[P0AEO:03: {2.0}] [P0AEO:02: {8.0}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
18	10.0000	G53-00000-46325		PLASTIC;P0AEN;SILICON RUBBER;SHEET;BLACK;RUBBER SHEET AMP	[P0AEO:03: {2.0}] [P0AEO:02: {8.0}]	IC8-IC9, T8-T15
19	1.0000	G58-00000-33079		PLASTIC;P0AEN;BLACK;SHIELD PC SHEET	[P0AEO:03: {1.0}()]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
20	1.0000	G58-00000-33079		PLASTIC;P0AEN;BLACK;SHIELD PC SHEET	[P0AEO:03: {1.0}()]	
21	6.0000	G53-00000-46348		PLASTIC;P0AEN;SILICON RUBBER;SHEET;BLACK;RUBBER SHEET DSP	[P0AEO:03: {6.0}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
22	6.0000	G53-00000-46348		PLASTIC;P0AEN;SILICON RUBBER;SHEET;BLACK;RUBBER SHEET DSP	[P0AEO:03: {6.0}]	D37-D40,T5-T6



**Plug Socket**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	G61-65214-03291		BOX HEADER;POLES:14;2 ROW;STRAIGHT;PITCH:2mm54;SCM-14S	[P0AEO:02: {1.0}{}]	
2	2.0000	G71-00000-23723		PIN HEADER;DUAL ROW;2*2;P2.54;H=10mm	[P0AEJ:01: {2.0}{}]	
3	1.0000	G71-00000-23725		PIN HEADER;DUAL ROW;2*5;P2.54;H=10mm	[P0AEJ:01: {1.0}{}]	
4	1.0000	G71-23106-04965		PLUG;WAFER;P:2mm;1 ROW;STRAIGHT;POLES:06;TYPE:A2006WV-6P	[P0AEO:02: {1.0}{}]	
5	1.0000	G71-23108-04747		PLUG;WAFER;POLES:08;1 ROW;STRAIGHT;PITCH:2mm;TYPE:A2006WV-8P	[P0AEO:02: {1.0}{}]	
6	1.0000	G71-23109-04748		PLUG;WAFER;P:2mm;1 ROW;STRAIGHT;POLES:09;TYPE:A2006WV-9P	[P0AEO:02: {1.0}{}]	
7	3.0000	G71-23102-04756		PLUG;WAFER;P:2mm;1 ROW;STRAIGHT;POLES:02;TYPE:A2006WV-2P	[P0AEO:03: {3.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
8	3.0000	G71-23102-04756		PLUG;WAFER;P:2mm;1 ROW;STRAIGHT;POLES:02;TYPE:A2006WV-2P	[P0AEO:03: {3.0}{}]	
9	1.0000	G67-30103-01969		SOCKET;AC;PCB MOUNT;COLOR:BLACK;POLES:03;(SS-7B-1-T7NUT2)	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
10	1.0000	G67-30103-01969		SOCKET;AC;PCB MOUNT;COLOR:BLACK;POLES:03;(SS-7B-1-T7NUT2)	[P0AEO:03: {1.0}{}]	

**Power Supply**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	J63-00000-28559		TRANSFORMER;P0AEN;EEL1927 CLICK	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
2	1.0000	J63-00000-22405		TRANSFORMER;P0AEN;EE55/55/21	[P0AEO:03: {1.0}{}]	(EU, UL, UK, SAA, CCC, AR, BR1)
3	1.0000	J63-00000-28559		TRANSFORMER;P0AEN;EEL1927 CLICK	[P0AEO:03: {1.0}{}]	
4	1.0000	J63-00000-40111		TRANSFORMER;P0AAQ;EE55 L:250uH+/-10%1KHZ,0.25V SG	[P0AEO:03: {1.0}{}]	(JP)

**Quarz**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	H65-10400-24576		QUARZ;RESONATOR;24MHZ576;HC49S FUNDAMENTAL	[P0AEO:02: {1.0}{}]	
2	1.0000	H65-40471-20000		QUARZ;RESONATOR;12MHZ;HC49/4H FUNDAMENTAL	[P0AEO:02: {1.0}{}]	

**Raw Material**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	2.5000	E41-50088-50456		HOTMELT;ZL;HS-88A		
2	6.5000	E41-60116-04068		GLUE;SUN-DA;SILCONE;SW-116-A	[P0AEO:03: {4.5}] [P0AEO:02: {2.0}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
3	6.5000	E41-60116-04068		GLUE;SUN-DA;SILCONE;SW-116-A	[P0AEO:03: {4.5}] [P0AEO:02: {2.0}]	

**Potentiometer**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	2.0000	I03-00000-22527		POTENTIOMETER;10 kohm;A;20 %;SINGLE;DETENT:21;L=20mm;R1131	[P0AEJ:01: {2.0}{}]	

**Encoder**

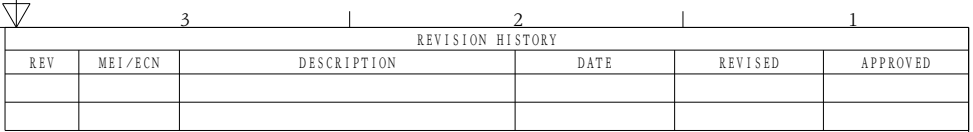
	Quantity	Item	Rev	Description	Reference Designators	Notes
1	1.0000	I32-62420-02046		ENCODER;12mm;DETENTS:24;PULSES:24;HEIGHT:20;W/SWITCH;LIGHT TORQUE;(NOBLE RE0124PVB20FINB1-2-24PCE)	[P0AEJ:01: {1.0}{}]	

**Switch**



	Quantity	Item	Rev	Description	Reference Designators	Notes
1	5.0000	I87-43811-03768		SWITCH;TACTILE;POLES:1;HEIGHT:4mm3;PCB VERSION;NONLOCK;NONSHORT	[P0AEJ:01: {5.0}{}]	
2	1.0000	I91-02421-05535		SWITCH;PUSH;MAINS;POLES:2;TOGGLES:1;LOCKING;NONSHORT;ANGLED;PCB VERSION;(RONG FENG;SS-160-PCB)	[P0AEN:04: {1.0}{}]	

**Transistor**

	Quantity	Item	Rev	Description	Reference Designators	Notes
1	8.0000	J70-20422-74503		TRANSISTOR;IRFB4227PBF;TO220	[P0AEO:02: {8.0}{}]	
2	1.0000	J73-08005-61703		TRANSISTOR;MBTA56;SOT	[P0AEO:02: {1.0}{}]	
3	13.0000	J73-16390-46603		TRANSISTOR;MMBT3904LT1;SOT23;SMD	[P0AEJ:01: {4.0}{}] <b>[P0AEO:03: {3.0}{}]</b> [P0AEO:02: {6.0}{}]	
4	1.0000	J73-16390-62803		TRANSISTOR;MMBT3906;SOT23;SMD	[P0AEO:03: {1.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
5	1.0000	J73-16390-62803		TRANSISTOR;MMBT3906;SOT23;SMD	[P0AEO:03: {1.0}{}]	
6	2.0000	J71-64606-03203		TRANSISTOR;;IXYS;IXGH60N60C2;TO247	[P0AEO:03: {2.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
7	2.0000	J71-64606-03203		TRANSISTOR;;IXYS;IXGH60N60C2;TO247	[P0AEO:03: {2.0}{}]	
8	2.0000	J71-13102-06103		TRANSISTOR;2SA1020Y;PNP;50V;2A;TO-92MOD;TOSHIBA	[P0AEO:03: {2.0}{}]	(EU, UL, JP, UK, SAA, CCC, AR, BR1)
9	2.0000	J71-13102-06103		TRANSISTOR;2SA1020Y;PNP;50V;2A;TO-92MOD;TOSHIBA	[P0AEO:03: {2.0}{}]	



36					
35					
34	B20-00000-39637	CIRCUIT BREAKER	1		FOR EU VERSION
	B20-00000-39640	CIRCUIT BREAKER	1		FOR UL VERSION
33	A65-00000-22589	AMP SHIELD	1		FOR NU6000DSP
32	G51-01200-01762	RUBBER FOOT	4		
31	F97-00000-36815	ALUMINA SHEET AMP	8		
30	F87-00000-28515	RUBBER PAD	4		
29	F89-32023-00194	ALUMINA SHEET PSU 1	4		
28	F88-00000-22569	SILVER,TAPPING,FLAT HEAD,M3X7	4		
27		OUTPUT PCB ASSY	1		
26	F97-00000-26098	ALUMINA SHEET PSU 2	2		
25	A31-00000-26278	FAN	2		
ITEM	PART NUMBER	DESCRIPTION	QTY.	ITEM CODE	REMARKS

PROJECT / MODEL:		COMMENTS :		PARTS LIST					
POAEN POAEO		iNuke 6000		BEHRINGER <small>All information (including drawings and diagrams) contained in this document is the property of BEHRINGER. Addressers whom the information is furnished to shall maintain the information in confidence and shall not release it to any unauthorized third parties (except under attorney-client privilege or under appropriate confidentiality agreements). Any unauthorized disclosure, use, application or any other dealings in the information shall result in civil and/or (where applicable) criminal liabilities and penalties.</small>					
 JUST LISTEN.		DRAWN		FILENAME:					
		MC CHEN	2011-07-30	NU6000 EXPLODED DRAWING					
		CHECKED	MC CHEN	2011-07-30	SIZE	ARTWORK NO.	PART NO.	REV.	
		A3	XXX-XXXXX-XXXXX	014-00000-41585	A				
APPROVED		DENNY YIN	2011-07-30	SCALE	1.0	UNIT mm		SHEET	1 OF 1



We Hear You