

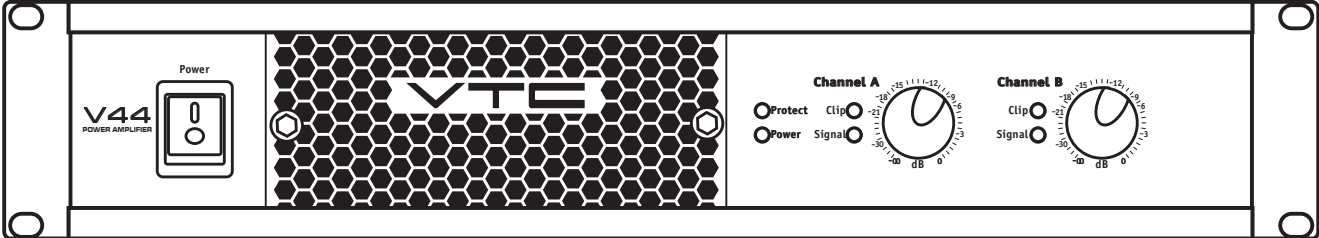
V44

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Service Manual

IMPORTANT SAFETY INSTRUCTIONS



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choc électrique.



CAUTION AVIS

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR**



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

FOLLOW ALL INSTRUCTIONS

**Instructions pertaining to a risk of fire,
electric shock, or injury to a person**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE COVER (OR BACK).**

NO USER SERVICEABLE PARTS INSIDE.

**REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**

SUIVEZ TOUTES LES INSTRUCTIONS

**Instructions relatives au risque de feu,
choc électrique, ou blessures aux personnes**

**AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC
ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE
PANNEAU ARRIERE) NE CONTIENT AUCUNE PIECE**

REPARABLE PAR L'UTILISATEUR.

**CONSULTEZ UN TECHNICIEN QUALIFIE
POUR L'ENTRETIEN**

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Veillez Lire le Manuel: Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachments/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que l'appareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. **N'UTILISEZ PAS L'APPAREIL** si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

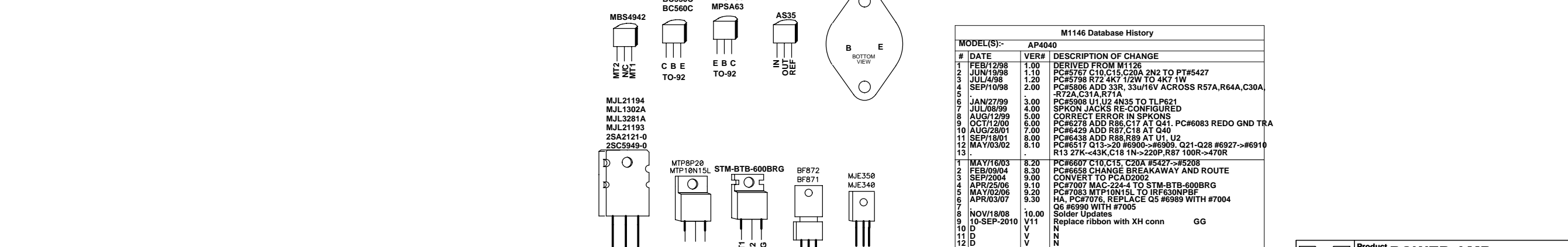
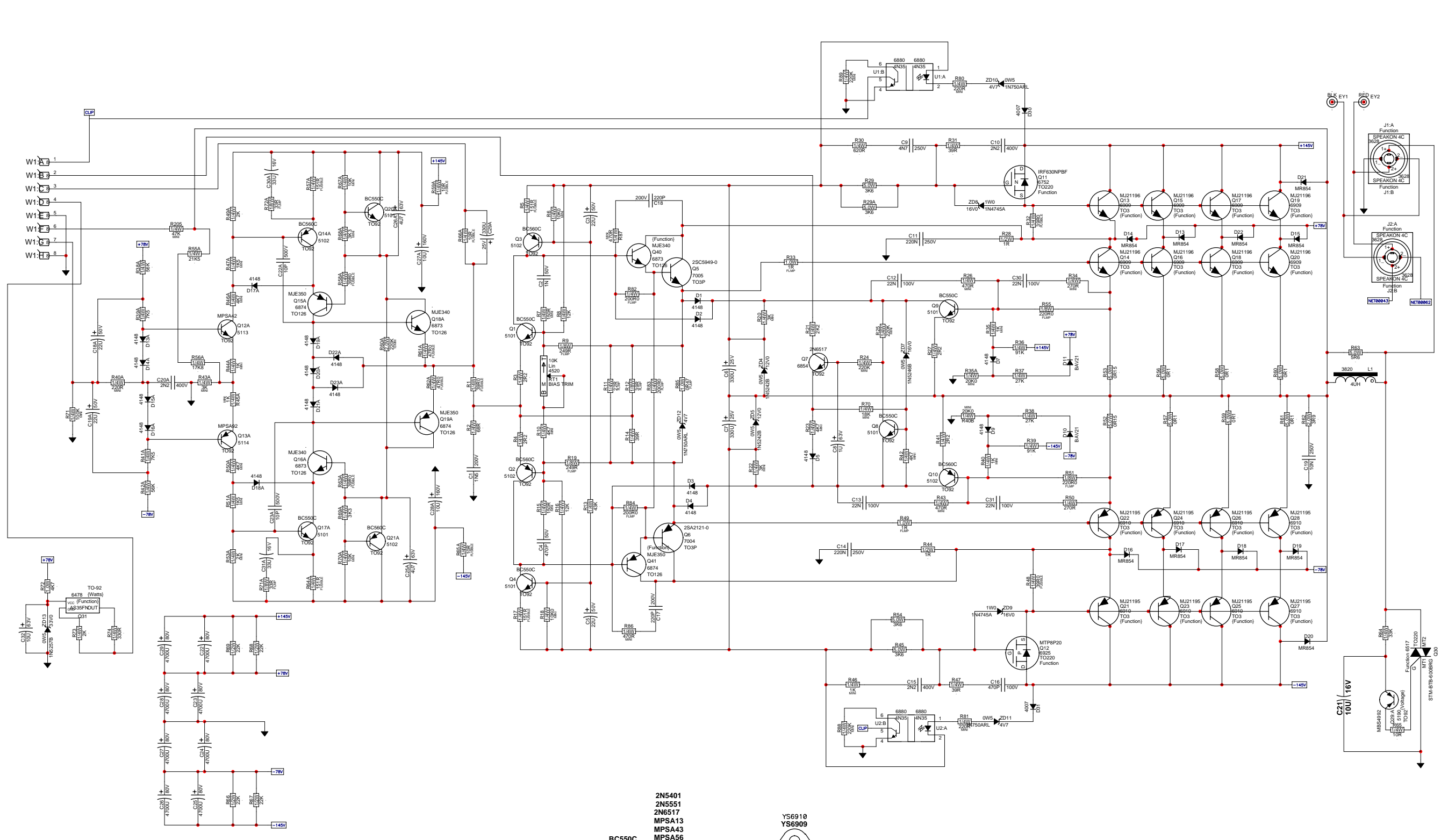
Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

VTC V44 Parts List 5/4/2010

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	3	4390	10K AUD 16MM DETENT P22	2	4854	1/4W 1K2 5% T&R RES	1	8629	10-32 X 1/4 SPACER PHENOLIC	16
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	3	4520	10K TRIM POT	2	4988	1/4W 1K5 5%MINI T&R RES	6	3751	SNAP IN 5/16 SPACER RICHO	3
6419	BRIDGE 35A 400V WIRE LEAD GI3504	2	2448	15.00 AMP CIRCUIT BREAKER	1	4791	1/4W 1K54 1% T&R RES	4	8657	6-32 X 3/8" HEX SPACER ALUMINUM	2
6425	BAV21 200V 0A25 DIODE T&R	4	714	1.5 MIL X 36" CLEAR POLY SHEETING	4	4808	1/4W 2K 5% T&R RES	6	3743	SNAP ON 0.5" SPACER RICHO	5
6438	1N4007 1000V 1A0 DIODE T&R	15	3820	4UH COIL 14AWG ZOBEL HORIZONTAL	2	6113	1/4W 2K 5%MINI T&R RES	2	3851	1/2 PCB PLASTIC SPACER	4
6825	1N4148 75V 0A45 DIODE T&R	52	3485	CLIP 250X032 18-22AWG RIGHT ANGL	4	4847	1/4W 2K2 5% T&R RES	2	3859	1/2 PLASTIC HEX SPACER #4	2
6934	MR854 400V 3A0 DIODE FASREC	20	3486	CLIP 250X032 22-18AWG DISCO-LOK	14	6124	1/4W 3K 5%MINI T&R RES	6	3502	NYLON FLAT WASHER OD.158ID.110H.070	2
6429	1N4747A 20V0 1W0 ZENER 5% T&R	1	3489	CLIP 250X032 18-22AWG DISCO/INSL	3	4826	1/4W 3K3 5% T&R RES	2	8667	SHOULDER WASHER SWS-229 LENGTH 1/8	4
6432	1N5248B 18V0 0W5 ZENER 5% T&R	2	3490	CLIP 250X032 14-16AWG DISCO/INSL	4	6136	1/4W 3K3 5%MINI T&R RES	2	3511	#6 FLAT WASHER NYLON	2
6433	1N5257B 33V0 0W5 ZENER 5% T&R	4	3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4744	5.0W 3K6 5% BLK RES	8	8485	#6 SPLIT WASHER ZINC	4
6439	1N5225B 3V0 0W5 ZENER 5% T&R	2	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	2	4681	1.0W 4K7 5% T&R RES	2	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	2
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	9	3628	SPKON 4C PCB MT VERT 250TAB GRAY #4	2	4943	1/4W 4K7 5% 2"U T&R RES	1	3517	NYLON WASHER #8 0.062	4
6450	1N5242B 12V0 0W5 ZENER 5% T&R	4	3417	6-32 SCREW TERMINAL PC MNT SNAP-IN	1	4982	1/4W 4K7 5%MINI T&R RES	17	8850	#10 INT TOOTH LOCKWASHER BO	4
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1	3657	XLR FEML PCB MT HORZ NO SHELL	2	4887	1/4W 5.0W 3K6 5% T&R RES	5	8921	#3MM ID3.2MM OD7.0MM THICK 5MM	4
6463	1N5251BRL 20V0 0W5 ZENER 5% T&R	1	3451	EYELET SMALL 0.089 OD PLATED	68	4990	1/4W 8K2 5%MINI T&R RES	2	3705	4P3T SLID SW PCMT H	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	1	9198	FAN 80MM X 80MM 40CFM 12VDC	1	4762	1/4W 9K760 0.1% *** T&R RES	8	3436	DPDT PUSH SW PCMT H BREAK B4 MAKE	3
6822	1N4745A 16V0 1W0 ZENER 5% T&R	4	3894	AAVID 5972-B H/S W/TAB B.O.	8	4800	1/4W 10K0 1% T&R RES	2	3587	DPDT ROKR SW QUIK 250°C/PWR ON-OFF	1
6824	1N5246B 16V0 0W5 ZENER 5% T&R	2	3501	B5220F006 COMP WASH #4 SMALL	23	4829	1/4W 10K 5% T&R RES	2	3682	250 MALE PCB TAB REL	36
5101	BC550C TO92 NPN TRAN T&R TB	14	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	4983	1/4W 10K 5%MINI T&R RES	9	CH1197	AP4040 117VAC-IMPORT TRD	1
5102	BC560C TO92 PNP TRAN T&R TB	14	3810	4" NYLON CABLE TIE	12	6116	1/4W 10K0 1%MINI MF T&R RES	8	4069	JST KH CONNECTOR: CONTACT	2
5103	MPSA06 TO92 NPN TRAN T&R TA	3	3827	SQUARE BUMPER BUTTON BLACK	11	4856	1/4W 12K 5% T&R RES	4	4070	JST KH CONNECTOR: 2 CIRCUIT HOUSING	1
5105	MPSA13 TO92 NPN DARL T&R TA	2	3852	STICK ON CABLE WRAP ANCHOR	1	5008	1/4W 14K7 1% T&R RES	2	4056	2 CIR XH-HEADER 0.098IN	1
5106	MPSA63 TO92 PNP DARL T&R TA	1	8433	KNOB AP SERIES PLASTIC	2	4630	1/2W 15K 5% T&R RES	2	2328	8 CIR XH-HEADER 0.098IN	4
5108	2N5401 TO92 PNP TRAN T&R TA	2	8661	KNOB BUTTON FLAT GREY	3	4830	1/4W 15K 5% T&R RES	12	2329	12 CIR XH-HEADER 0.098IN	2
5113	MPSA42 TO92 NPN TRAN T&R TA	2	8437	FAN FILTER LABEL	1	5057	1/4W 16K5 1% T&R RES	4	3035	PATCH 08 22AWG 05.0 XH FLAT	1
5114	MPSA92 TO92 PNP TRAN T&R TA	2	3468	8" 3/16 SJT AC LINE CORD STRIP 17"	1	4771	1/4W 17K8 1% T&R RES	2	3036	PATCH 08 22AWG 09.0 XH FLAT	1
6854	2N6517 TO92 NPN TRAN TA	3	3821	STRAIN RELIEF HEVCO #120	1	6125	1/4W 18K 5%MINI T&R RES	2	3037	PATCH 12 22AWG 15.0 XH FLAT	1
6752	MTP10N15L TO220 NCH MFET TN	2	8261	GE VELVET/MATTE LEXAN .007"X12"X24"	0.333	6123	1/4W 20K0 1%MINI MF T&R RES	4			
6814	MJF6668 T221D PNP TRAN DARL TJ	1	8263	METALIZED POLYESTER .005 X 12" X 24"	0.02	4777	1/4W 21K5 1% T&R RES	2			
6815	MJF6388 T221D NPN TRAN DARL TJ	2	8701	4-40 KEPS NUT ZINC	20	4632	1/2W 22K 5% T&R RES	8			
6873	MJE340 TO126 NPN TRAN TG	6	8793	4-40 HEX NUT ZINC	3	6118	1/4W 22K 5%MINI T&R RES	1			
6874	MJE350 TO126 PNP TRAN TG	6	8666	6-32 X 1/4" PEM THRD SPACER 0.213	2	4833	1/4W 27K 5% T&R RES	6			
6925	MTP8P20 TO220 PCH MFET TN	2	8760	6-32 KEPS NUT TIN PLATED	64	4840	1/4W 33K 5% T&R RES	3			
6909	MJ21196 TO3 NPN TRAN TH	16	8800	6-32 KEPS NUT ZINC	5	6122	1/4W 33K 5%MINI T&R RES	1			
6910	MJ21195 TO3 PNP TRANSISTOR TH	16	8854	6-32 X 1/4" O.D. HEX NUT ZINC CLEAR	4	4878	1/4W 43K 5% T&R RES	2			
7004	2SA2121-0 TO3P PNP TRAN TK	2	8797	5/16-18 KEPS NUT JS500	1	6119	1/4W 47K 5%MINI T&R RES	9			
7005	2SC5949-0 TO3 NPN TRANSISTOR TK	2	3797	TO-247 THERMO CONDUCTIVE PAD	4	4835	1/4W 56K 5% T&R RES	8			
6745	LM13600N IC XCONDUCTANCE AMP	2	3846	TO220 THERMO PAD LARGE HOLE 56359B	8	6139	1/4W 62K 5%MINI T&R RES	2			
6840	MC33078P IC DUAL OP AMP	5	3916	TO3 SIL-PAD REPLACES MICA	32	5007	1/4W 78K7 1% T&R RES	2			
5190	MB54892 TO92 8V5 DIAC T&R	2	4060	SILPAD 1500ST 0.900 X 0.725BERQUIST	4	4586	1/4W 82K 5%MINI T&R RES	2			
6489	5R 20% THERMISTOR-SURGR NTC	2	4597	22AWG STRAN TC WIR JMP	23	4898	1/4W 91K 5% T&R RES	4			
6517	STM-BTB-600BRG TO220 ??A TRIAC 600V	2	4599	22AWG SOLID SC WIR T&R JMP	120	4838	1/4W 100K 5% T&R RES	2			
6880	4N35 OPTO-COUPLER	4	5299	22AWG SOLID SC WIR RAD JMP	10	6120	1/4W 100K 5%MINI T&R RES	2			
5401	10P 500V 5%CAP T&R RAD CER.2NPO	4	4745	5.0W 0R1 5% BLK RES	12	4851	1/4W 120K 5% T&R RES	2			
5197	220P 100V 2%CAP T&R RAD CER.2NPO	3	4749	5.0W 0R15 5% BLK RES	4	4886	1/4W 200K 5% T&R RES	1			
5203	47P 100V 2%CAP T&R RAD CER.2NPO	2	2005	1.0W 0R47 5%FLAME PROOF T&R RES	2	4668	2.0W 220K 5%10MM BODY T&R RES	2			
5410	100P 100V 10%CAP T&R BEAD NPO	2	2006	1.0W 1R 5%FLAME PROOF T&R RES	4	6126	1/4W 220K 5%MINI T&R RES	10			
5412	220P 100V 10%CAP T&R BEAD NPO	13	4677	1/2W 1R 5% T&R RES	4	6127	1/4W 470K 5%MINI T&R RES	2			
5201	470P 100V 5%CAP T&R RAD CER.2NPO	2	4688	1/2W 2R2 5% T&R RES	3	4844	1/4W 1M 5% T&R RES	1			
5208	2N2 400V 5%CAP T&R RAD .2FLM	12	4911	1/4W 2R2 5% T&R RES	8	4948	1/4W 1M 5% 2"U T&R RES	1			
5273	1N5 200V 5%CAP T&R RAD CER.2NPO	2	4748	2.0W 3R9 5% T&R	4	4951	1/4W 4M7 5% 2"U T&R RES	2			
5416	470P 50V 10%CAP T&R BEAD NPO	2	4733	5.0W 5R6 5% BLK RES	2	6132	1/4W 8M2 5%MINI T&R RES	2			
5422	1N 50V 10%CAP T&R BEAD NPO	2	2009	1/4W 10R 2%FLAME PROOF T&R RES	2	4751	1/4W 22M 5% T&R RES	4			
5209	4N7 250V 5%CAP T&R RAD .2FLM	2	2037	1/4W 10R FUSIBLE T&R RES	6	3604	21" 14C-28AWG DIP HDR CABLE .05"	1			
5210	22N 100V 10%CAP T&R RAD .2FLM	11	4605	1/8W 10R 5% T&R RES	1	3699	RELAY 1C 02AMP DC48 006MA PC-S	1			
5834	10N 250V 20%CAP BLK RAD POLY FLM	2	4875	1/4W 10R 5% T&R RES	2	3735	RELAY 1A 16AMP DC48 011MA PC-C	1			
6435	22N 275V 20%CAP BLK X2 15MM AC	2	4930	1/4W 10R 5% 2"U T&R RES	1	8870	#4 X 1/4 PAN PH TYPE A ZINC	2			
6451	4N7 250V 20%CAP BLK Y 10MM AC	1	2039	1/4W 22R0 FUSIBLE T&R RES	2	8865	4-40 X 5/16 PAN PH MS JS500	4			
5212	100N 63V 5%CAP T&R RAD .2FLM	4	2014	1/6W 33R 2%FLAME PROOF T&R RES	4	8729	#4 X 3/8 FLAT QUAD TYPE A JS500 BLK	2			
5226	68N 100V 5%CAP T&R RAD .2FLM	4	2016	1/6W 39R 2%FLAME PROOF T&R RES	2	8742	4-40 X 3/8 PAN PH TAPTITE JS500	2			
5228	100N 100V 5%CAP T&R RAD .2FLM	3	2041	1/4W 39R0 FUSIBLE T&R RES	10	8861	4-40 X 3/8 PAN PH MS JS500	8			
5229	150N 63V 10%CAP T&R RAD .2FLM	4	4899	1/4W 39R 5% T&R RES	6	8741	4-40 X 1/2 PAN PH MS JS500	3			
5231	220N 63V 10%CAP T&R RAD .2FLM	2	2042	1/4W 47R0 FUSIBLE T&R RES	4	8871	4-40 X 5/8 PAN PH MS JS500	12			
5234	470N 63V 10%CAP T&R RAD .2FLM	4	4811	1/4W 68R 5% T&R RES	2	8902	4-40 X 3/4 PAN PHIL MS B/O & WAX	4			
5314	100N 50V 10%CAP T&R BEAD X7R	2	4984	1/4W 150R 5%MINI T&R RES	4	8799	#6 X 1/4 PAN PH TYPE B JS500	2			
5882	220N 250VDC 10%CAP BLK RAD PLY FLM	4	2045	1/4W 150R FUSIBLE T&R RES	8	8832	6-32 X 1/4 PAN PH TAPTITE JS500	1			
5255	1U 63V 20%CAP T&R RAD .2EL	3	2021	1/4W 200R0 1%FLAME PROOF T&R RES	6	8801	6-32 X 3/8 PAN PH TAPTITE JS500	4			
5258	4U7 63V 20%CAP T&R RAD .2EL	2	2023	1/6W 220R0 1%FLAME PROOF T&R RES	4	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	60			
5259	4U7 63V 20%CAP T&R RAD .2	4	4857	1/4W 220R 5% T&R RES	2	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	64			
5269	4U7 100V 20%CAP T&R RAD LESR2	2	4977	1/4W 220R 5%MINI T&R RES	7	8837	6-32 X 1/2 ROUND PH MS JS500	2			
5260	22U 50V 20%CAP T&R RAD .2EL	8	2024	1/6W 249R 2%FLAME PROOF T&R RES	12	8796	6-32 X 5/8 PAN PH TAPTITE ZINC	2			
5282	10U 16V 20%CAP T&R 5X7MM .2NP	2	4867	1/4W 270R 5% T&R RES	2	8830	6-32 X 7/8 PAN PH MS JS500	1			
5629	10U 160V 20%CAP BLK 10X13MM EL	4	4986	1/4W 270R 5%MINI T&R RES	2	8999	8-32 X 5/8 PAN PH TAPTITE JS500	17			
5945	10U 63V 20%CAP T&R RAD .2EL	2	4855	1/4W 330R 5% T&R RES	2	8815	8-32 X 3/4 PAN PH TAPTITE JS500	5			
5961	33U 16V 20%CAP T&R RAD .2	12	4980	1/4W 470R 5%MINI T&R RES	9	8809	10-32 X 1/4 PAN PH TAPTITE JS500	4			
5267	100U 25V 20%CAP T&R RAD .2EL	3	4891	1/4W 620R 5% T&R RES	2	8740	5/16-18 X 3 GRD 5 HEX BOLT JS500	1			
5619	330U 100V 20%CAP BLK 12X25MM EL	4	5019	1/4W 620R 5%MINI T&R RES	1	8869	8-18 X 1/2 THRD CUTTING FOR PLASTIC	4			
5621	470U 63V 20%CAP BLK 12X25MM EL	1	4873	1/4W 680R 5% T&R RES	2	8731	10-16 X 5/8 TYPE B HEX W/SLOT JS500	12			
5630	330U 25V 20%CAP BLK 10X13MM EL	6	4934	1/4W 1K 5% 2"U T&R RES	1	3570	14 PIN SKCT CLOSED FRAME DIP ONLY	1			
5896	4700U 80V 20%CAP BLK 25X50MM ELS	16	4981	1/4W 1K 5%MINI T&R RES	15	8663	11/64 NYLON SPACER (MICRO PLASTIC)	66			

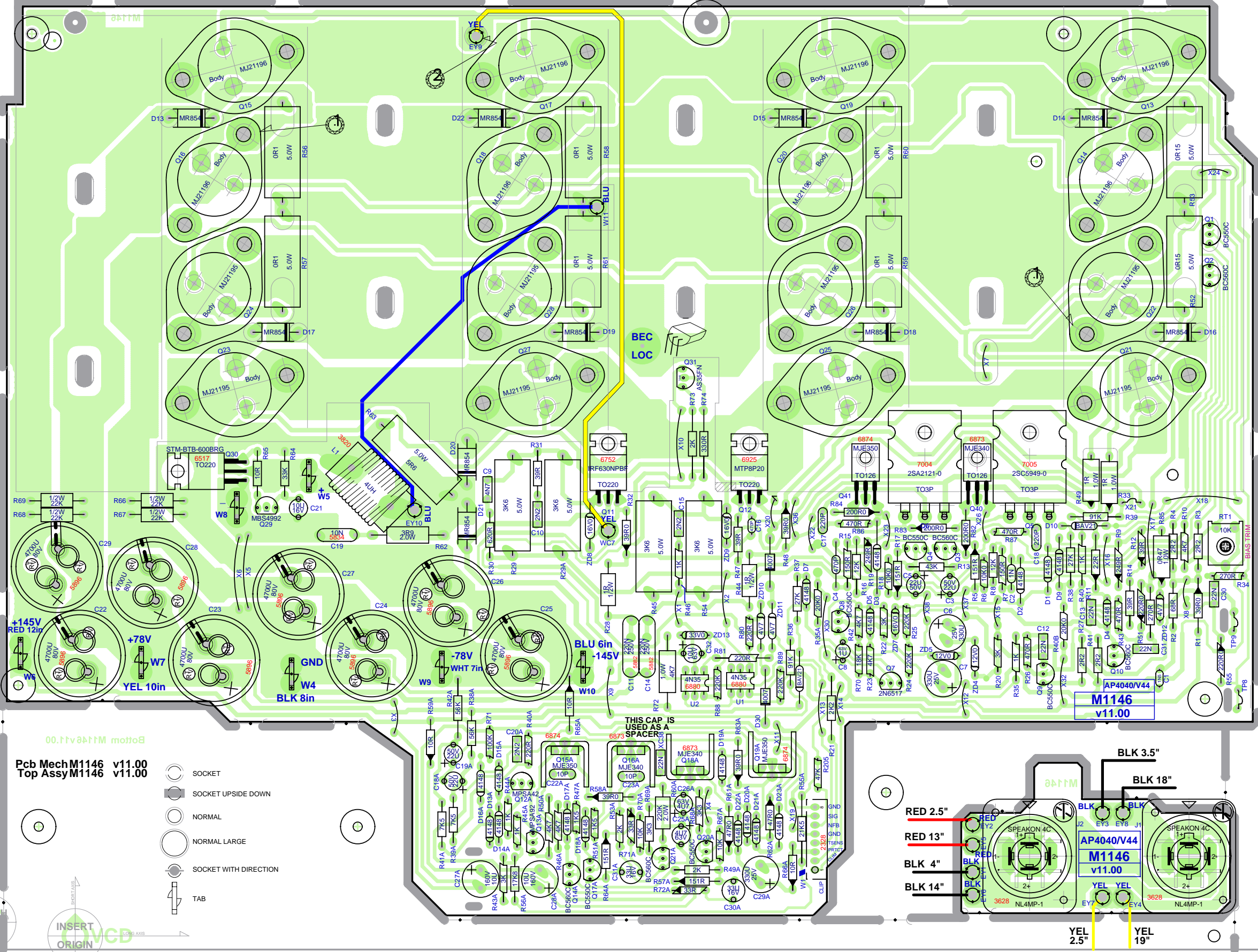


M1146 Database History

MODEL(S)-	AP4040		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/12/98	1.00	DERIVED FROM M1126
2	JUN/19/98	1.10	PC#5767 C10,C15,C20A 2N2 TO PT#5427
3	JUL/4/98	1.20	PC#5798 R72 4K7 1/2W TO 4K7 1W
4	SEP/10/98	2.00	PC#5806 ADD 33R, 33u/16V ACROSS R57A,R64A,C30A,-R72A,C31A,R71A
5	JAN/27/99	3.00	PC#5908 U1,U2 4N35 TO TLP621
6	JUL/08/99	4.00	SPKON JACKS RE-CONFIGURED
7	AUG/12/99	5.00	CORRECT ERROR IN SPKONS
8	OCT/12/00	6.00	PC#6278 ADD R86,C17 AT Q41. PC#6083 REDO GND TRA
9	AUG/28/01	7.00	PC#6429 ADD R87,C18 AT Q40
10	SEP/18/01	8.00	PC#6438 ADD R88,R89 AT U1, U2
11	MAY/03/02	8.10	PC#6517 Q13->20 #6900->#6909, Q21-Q28 #6927->#6910
12			R13 27K->43K,C18 1N->220P,R87 100R->470R
1	MAY/16/03	8.20	PC#6607 C10,C15, C20A #5427->#5208
2	FEB/09/04	8.30	PC#6658 CHANGE BREAKAWAY AND ROUTE
3	SEP/20/04	9.00	CONVERT TO PCAD2002
4	APR/25/06	9.10	PC#7007 MAC-224-4 TO STM-BTB-600BRG
5	MAY/02/06	9.20	PC#7083 MTP10N15L TO IRF630NPBF
6	APR/03/07	9.30	HA, PC#7076, REPLACE Q5 #6989 WITH #7004
7			Solder Updates
8	NOV/18/08	10.00	Q6 #6990 WITH #7005
9	10-SEP-2010	V11	Replace ribbon with XH conn GG
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

BlankSize - 15000x11000
StepAndRepeat - X0@0.000Y0@0.000
CinchRepeats - X0@0.000Y0@0.000

INTO WAVE →



BlankSize - 15000x11000
StepAndRepeat - X0@0.000Y0@0.000
CinchRepeats - X0@0.000Y0@0.000

Pcb Mech M1146 v11.00
Top Assy M1146 v11.00

- SOCKET
- SOCKET UPSIDE DOWN
- NORMAL
- NORMAL LARGE
- SOCKET WITH DIRECTION
- TAB

AP4040 / V44 LAYOUT

↙ SEE LAYOUT DOCUMENTATION ↘

DO NOT STUFF WIRES OR SPEAKON JACKS FOR SERVICE BOARDS.



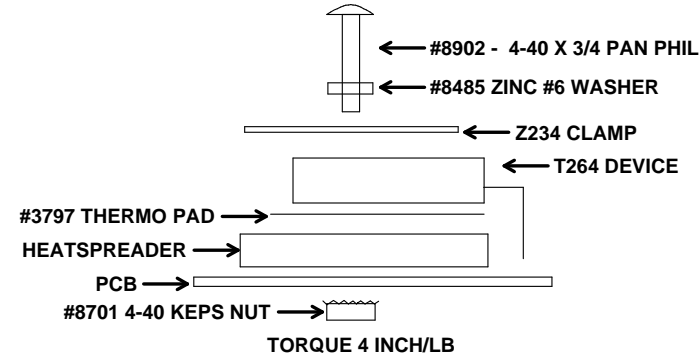
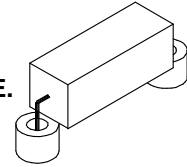
SEE LAYOUT DIAGRAM



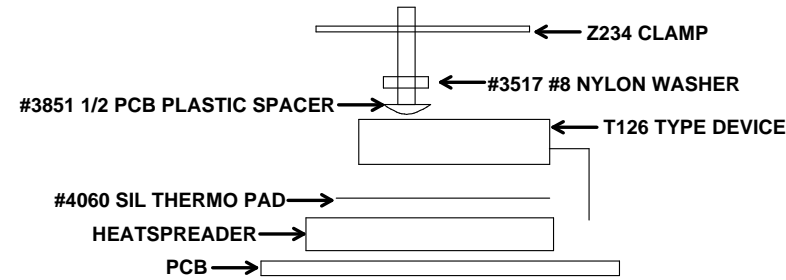
M1146 - AP4040 / V44 PRODUCTION NOTES

1. MOUNTING DETAILS FOR 5W ADD #8629 SPACERS ONLY ON 5 WATT RESISTORS R29 AND R45. ENSURE SPACERS ARE UNDER RESISTOR BODY ENOUGH TO RAISE IT OFF THE BOARD SURFACE.

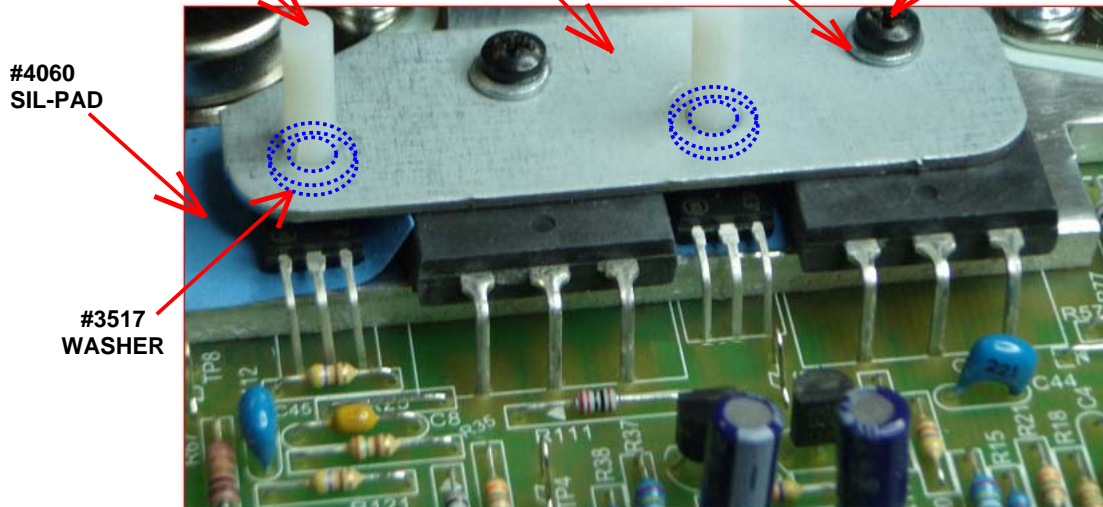
2. MOUNTING HARDWARE FOR Q5 AND Q6.



3. MOUNTING HARDWARE FOR Q40 AND Q41.

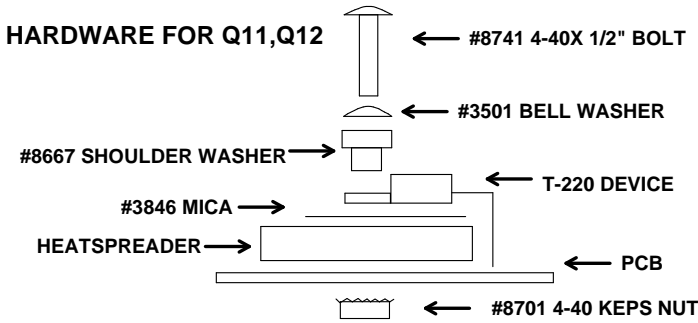


#3851 SPCR, Z234 CLAMP, #8485 WASHER, #8902 440- SCREW

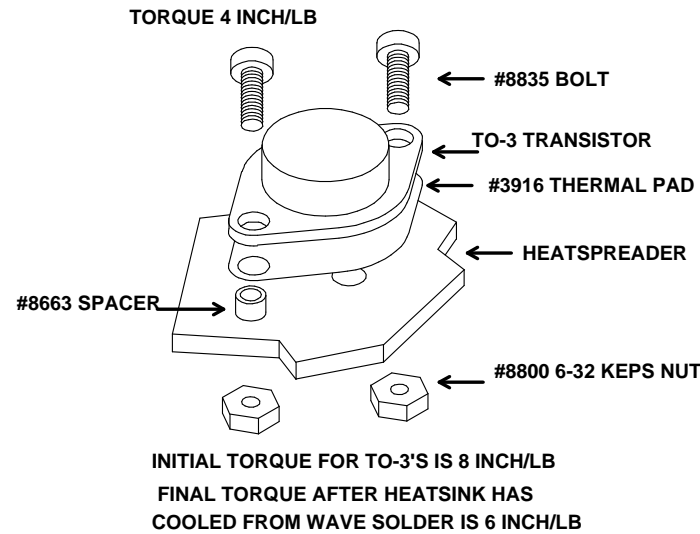


CLAMP DETAIL - SEE NOTES 2 AND 3.

4. MOUNTING HARDWARE FOR Q11,Q12

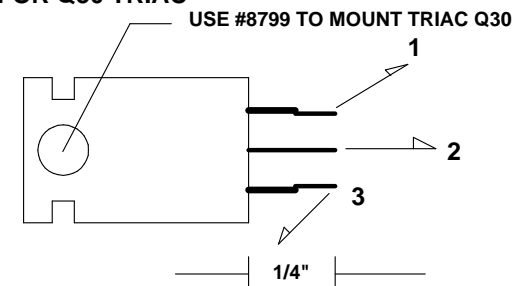


5. MOUNTING HARDWARE FOR TO3 OUTPUTS



6. USE #2006 SMALL BODY 1R 1W FOR R33 AND R49.

7. MOUNTING DETAILS FOR Q30 TRIAC



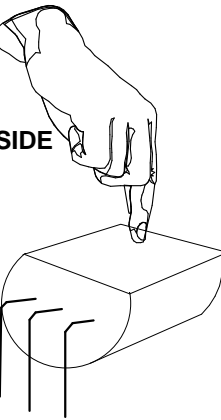
BEND DOWN 1/4" FROM BODY OF THE TRANSISTOR

IMPORTANT:

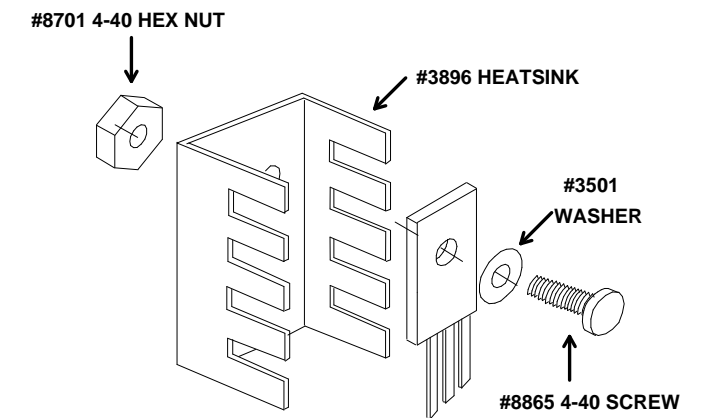
AFTER MOUNTING DEVICE DO NOT CUT LEGS BEND LEGS IN DIRECTION SHOWN IT IS IMPRATIVE THAT LEG ARKED 2 AND 3 ARE BENT FLAT AGAINST THE COPPER SURFACE.

8. TAB WIRE COLOURS: TAB 1 RED 16AWG TAB 2 YEL 16AWG TAB 3 BLK 16AWG TAB 4 WHT 16AWG TAB 5 BLU 16AWG TAB 6 OUTPUT + TAB 7 OUTPUT -

9. Q31 IS HAND INSERTED AND BENT OVER WITH FLAT SIDE UP AS SHOWN.



10. MOUNTING HARDWARE FOR Q15A AND Q16A.



11. CHECK THE TRANSISTORS FOR ANY SHORT.

12.. FOR CONNECTOR W1 USE YSPART 2328. TO PLACE THE CONNECTOR BEND RESISTOR R55A TO THE LEFT SO THAT THE CONNECTOR SITS FLUSH AGAINST THE BOARD.



SEE LAYOUT DIAGRAM



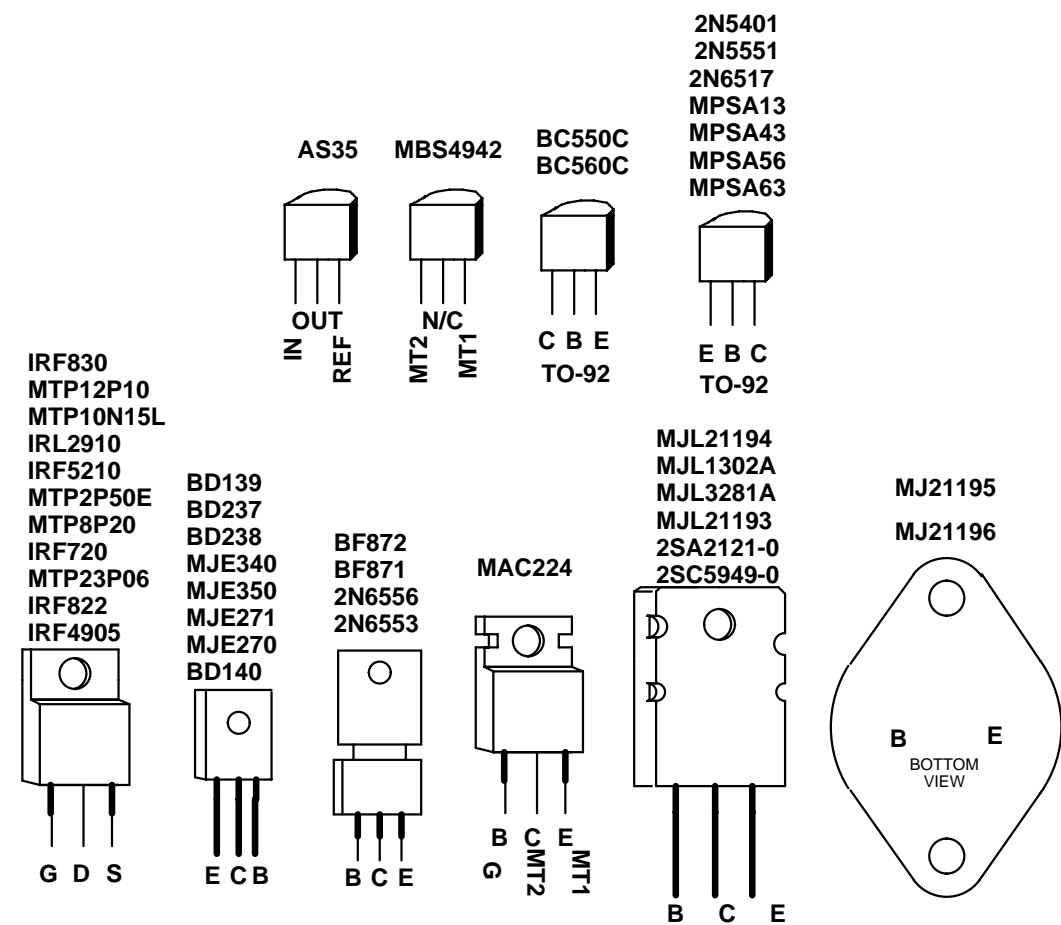
M1146 Database History			
MODEL(S):- AP4040 / V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/12/98	1.00	DERIVED FROM M1126
2	JUN/19/98	1.10	PC#5767 C10,C15,C20A 2N2 TO PT#5427
3	JUL/4/98	1.20	PC#5798 R72 4K7 1/2W TO 4K7 1W
4	SEP/10/98	2.00	PC#5806 ADD 33R, 33u/16V ACROSS R57A,R64A,C30A,-R72A,C31A,R71A
5	.	.	PC#5908 U1,U2 4N35 TO TLP621
6	JAN/27/99	3.00	SPKON JACKS RE-CONFIGURED
7	JUL/08/99	4.00	CORRECT ERROR IN SPKONS
8	AUG/12/99	5.00	PC#6278 ADD R86,C17 AT Q41. PC#6083 REDO GND TRA
9	OCT/12/00	6.00	PC#6429 ADD R87,C18 AT Q40
10	AUG/28/01	7.00	PC#6438 ADD R88,R89 AT U1, U2
11	SEP/18/01	8.00	PC#6517 Q13->20 #6900->#6909. Q21-Q28 #6927->#6910
12	MAY/03/02	8.10	R13 27K-<43K,C18 1N->220P,R87 100R->470R
13	.	.	

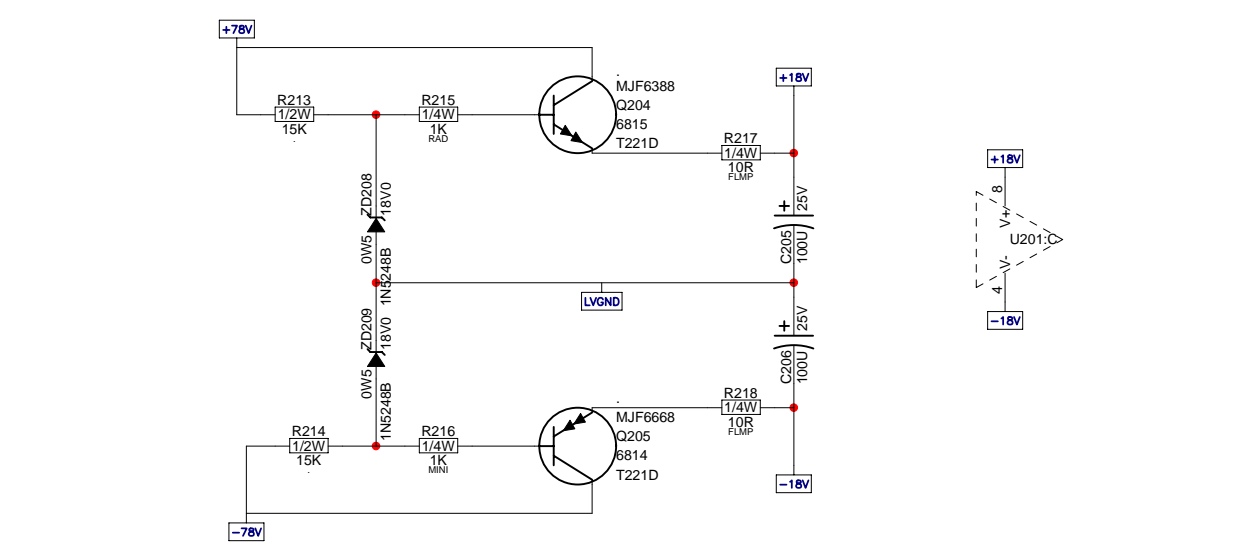
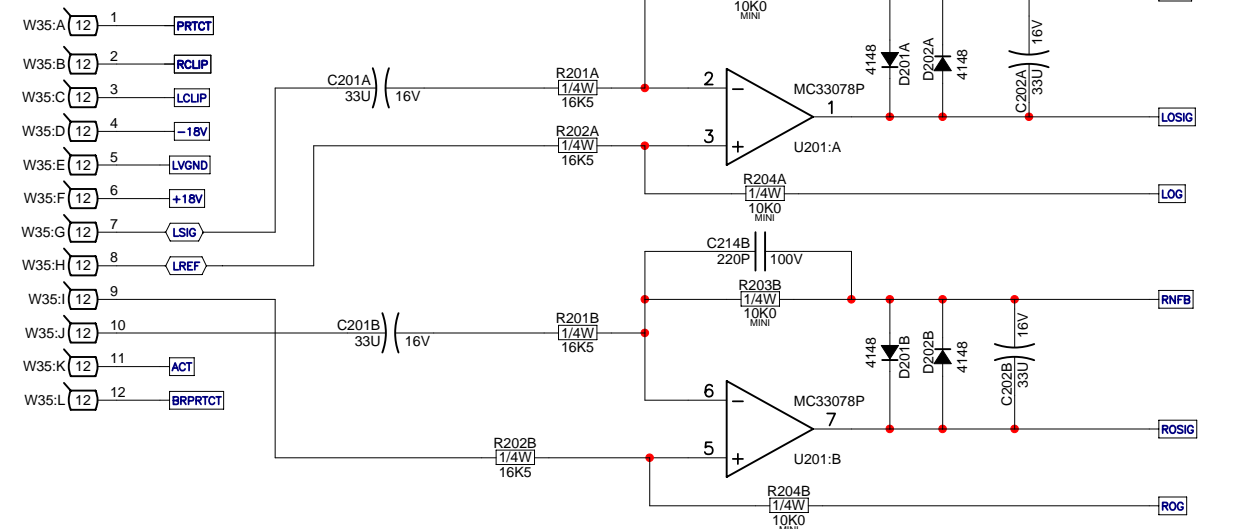
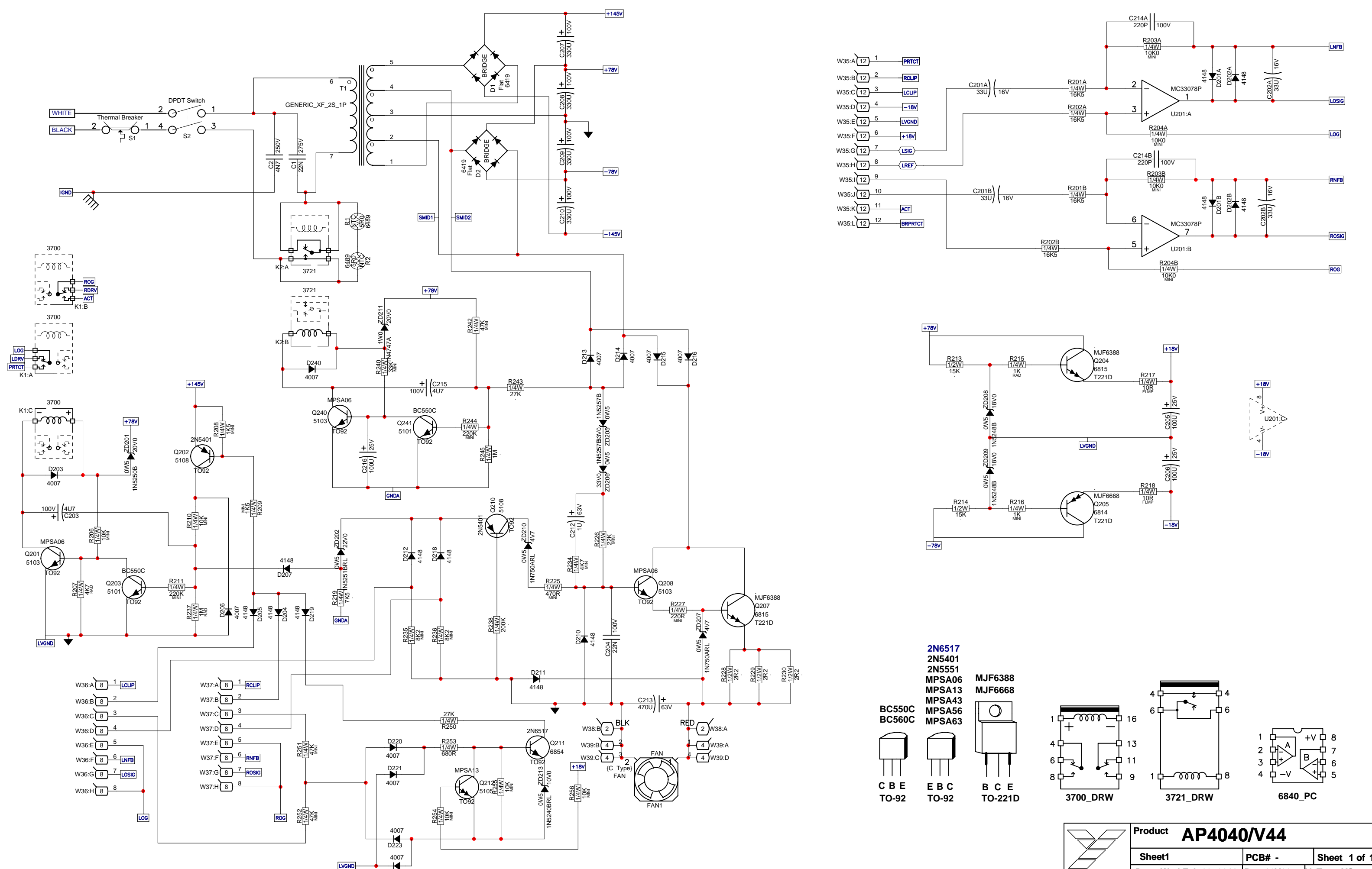
1	MAY/16/03	8.20	PC#6607 C10,C15, C20A #5427->#5208
2	FEB/09/04	8.30	PC#6658 CHANGE BREAKAWAY AND ROUTE
3	SEP/2004	9.00	CONVERT TO PCAD2002
4	APR/25/06	9.10	PC#7007 MAC-224-4 TO STM-BTB-600BRG
5	MAY/02/06	9.20	PC#7083 MTP10N15L TO IRF630NPBF
6	APR/03/07	9.30	HA, PC#7076, REPLACE Q5 #6989 WITH #7004
7	.	.	Q6 #6990 WITH #7005
8	NOV/18/08	10.00	Solder Updates
9	10-SEP-2010	V11	Replace ribbon with XH conn GG
10	D	N	
11	D	N	
12	D	N	
13	D	N	

Mnnnn Drilling History

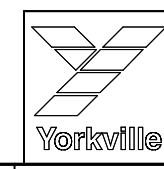
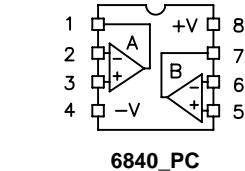
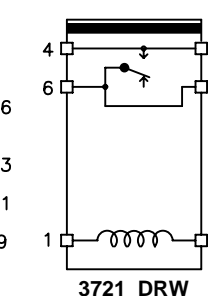
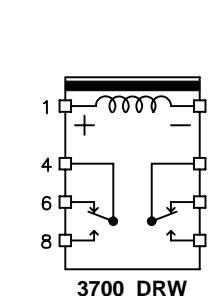
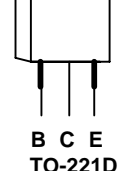
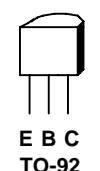
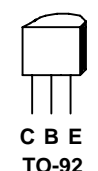
MODEL(S):- {MODEL}			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1146.SCH_DATABASE_HISTORY			
MODEL(S):- AP4040			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	APR/25/06	V	PC#7007 MAC-224-4 TO STM-BTB-600BRG
2	MAY/02/06	2.20	PC#7083 MTP10N15L TO IRF630NPBF
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N





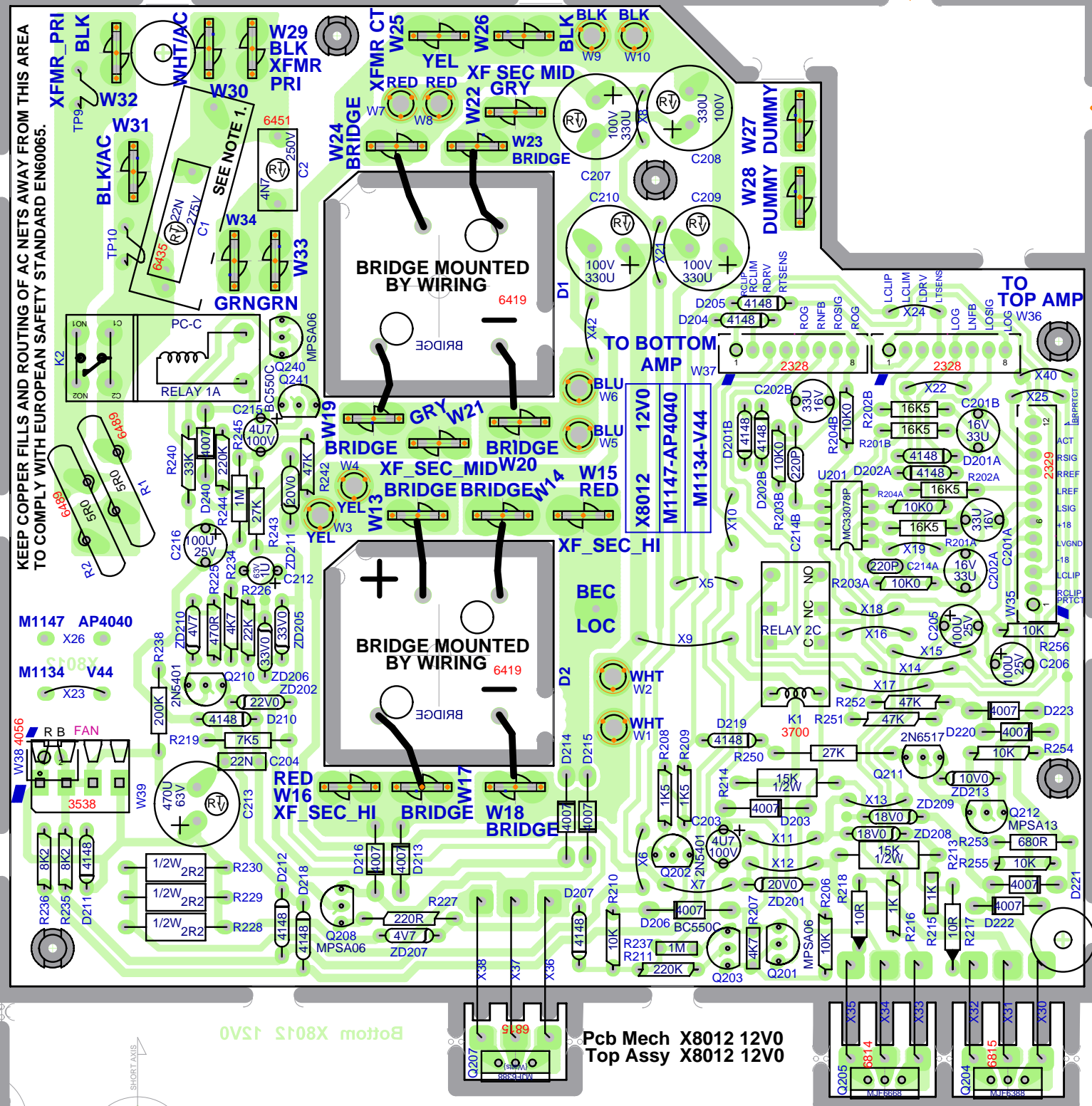
- 2N6517
- 2N5401
- 2N5551
- MPSA06
- MPSA13
- MPSA43
- MPSA56
- MPSA63
- BC550C
- BC560C
- MJF6388
- MJF6668



Product AP4040/V44		
Sheet1	PCB# -	Sheet 1 of 1
Date: Wed Feb 03, 2010	Rev:12V00	YsType:YS
Filename: X8012V1200sch.sch2002		

M1134 V44

KEEP COPPER FILLS AND ROUTING OF AC NETS AWAY FROM THIS AREA TO COMPLY WITH EUROPEAN SAFETY STANDARD EN60065.



Bottom X8015 15V0

Pcb Mech X8012 12V0
Top Assy X8012 12V0

BlankSize - 14000 x 8000



SEE LAYOUT DOCUMENTATION

CI

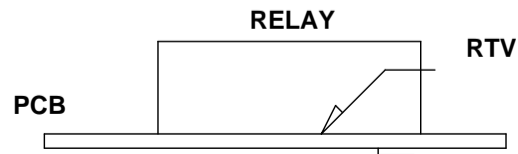


SEE LAYOUT DIAGRAM



X8012 PRODUCTION NOTES: M1134 V44

- 1. FOR C1 USE 22N FOR NORTH AMERICAN AND 680N FOR EURO.**
- 2. ADD RTV UNDER RELAY AND BEND LEADS FLAT TO PCB.**
- 3. PC#7717 ONLY FOR V44
CHANGE R201A,R201B,R202A AND R202B
FROM 10K0 TO 16K5 1% 1/4W #5057**





SEE LAYOUT DIAGRAM



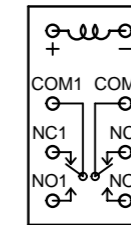
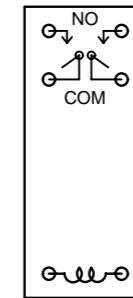
PIN CONFIGURATION

X8012 Database History			
MODEL(S):- AP4040 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/12/98	1.00	DERIVED FROM M1127
2	MAR/30/98	2.00	REPLACE R233&THERMISTOR WITH SURGISTORS
3	APR/07/98	.	PC#5664 ADD EXTRA PROTECT CIRCUIT
4	JUL/15/98	2.10	PC#5798 REPLACE ZD212 WITH JUMPER
5	OCT/27/99	3.00	PC#5695 ADD TP9,10 . ENLARGE AC TRACES
6	APR/03/00	4.00	PC#6218 UPDATE REL2 SYMBOL (HOLE LOCATIONS)
7	DEC/04/01	5.00	REPLACE JUMPERS FOR BRIDGE WITH TABS AND WIRES
8	JAN/15/02	6.00	NEW SOLDERMASK FOR TABS
9	SEP/2004	7.00	CONVERT TO PCAD2002
10	9-MAY-2006	8.00	REDO AC FOR CE COMPLIANCE
11	23 Nov, 2006	.	Imported test node locations from MD database.
12	08 Feb, 2007	9.00	CHANGED ROUTE FILE, FIX SPACING SNAPIN CLOSE W362
13	.	.	CHANGE C213 FROM 470U 25V #5618 TO 470U 63V #5621
1	23-JAN-2008	10.00	Solderability Update, corrected AC clearances.
2	17-FEB-2009	.	PC#7717, ONLY FOR V44. CHANGE R201A,R201B,R202A
3	.	.	R202B FROM 10K0 TO #5057 16K5 1% 1/4W
4	20-MAY-2009	11.00	CREATED X8012 FOR NEW CABLES, PC#7717 and 7738
5	OCT/21/09	12.00	PC#7885: Span change on X30-X35
6	03-FEB-2010	.	PC7935: Change C203, C215 from #5259 to #5269 GG
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

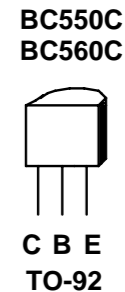
X8012 PCB_DATABASE_HISTORY			
MODEL(S):- AP4040 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

X8012 PENDING CHANGES		
MODEL(S):- AP4040 AND V44		
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



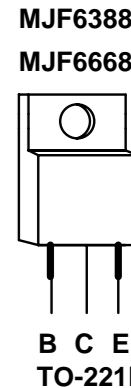
3721_DRW 3700_DRW



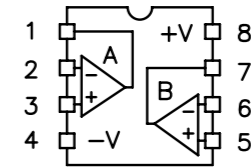
BC550C
BC560C
C B E
TO-92



2N6517
2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63
E B C
TO-92



MJF6388
MJF6668
B C E
TO-221D



X8011 PCB_DATABASE_HISTORY			
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	OCT/97	1.00	FIRST PRODUCTION
2	APR/17/98	2.00	#5664 RIBBON CABLE CONNECTIONS CHANGED FOR PROTECT CIRCUIT
3	.	.	.
4	DEC/09/98	3.00	PC#5736 TRACES CHANGED POT SUPPORT SCREWS ADDED
5	.	.	.
6	NOV/20/01	3.10	PC#6466 LD7,LD8 NSL28AA->NSL32SR2
7	JUL/09/02	4.00	PC#6401 PARTS MOVED NEAR P2
8	OCT/25/02	4.10	PC#6568 R44/R41 10K->1K
9	APR/15/05	5.00	PC#6873 REDO SOLDERMASK
10	JUN/05/06	6.00	PC#7138:GT:CONVERT TO PCAD2002. CHANGE OPTO LIMITER TO 13600 #6745 LIMITERS FOR ROHS
11	.	.	REPLACE C3,C4,C9 AND C10 WITH #5234 470N 63V
12	.	.	REPLACE R31 AND R51 WITH #6139 62K 1/4W
13	.	.	.

1	.	.	REPLACE R4 WITH #6127 470K 1/4W
2	JUN/23/08	7.00	Removed shear, solder update, std board size
3	03-MAR-2009	8.00	CREATE X8011, M1128 FOR AP, VX AND M1133 FOR VTC
4	.	.	PC#7717, M1133,V42 AND V44 CHNAGE R34 AND R47 FROM 470R TO 2K #4808
5	.	.	.
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

X8011 DRILL HISTORY			
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

X8011 PENDING CHANGES		
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44		
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



Product **AP-VX-VTC POT PCB**

POT PCB

PCB# X8011

Sheet 2 of 2

Date: Tue Mar 03, 2009

Rev: 8V00

Filename: X8011V800sch.sch2002

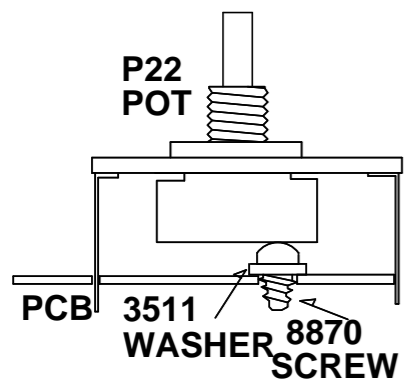


SEE LAYOUT DIAGRAM

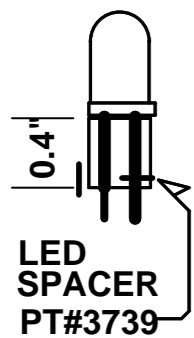


X8011 PRODUCTION NOTES - M1133 V42/V44

1.



2.





SEE LAYOUT DIAGRAM



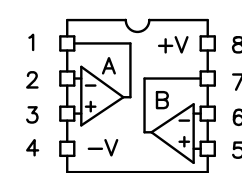
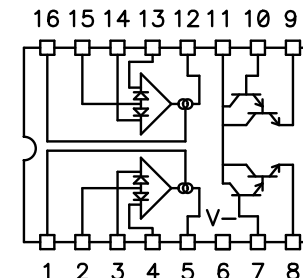
X8011 PCB_DATABASE_HISTORY			
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	OCT/97	1.00	FIRST PRODUCTION
2	APR/17/98	2.00	#5664 RIBBON CABLE CONNECTIONS CHANGED FOR PROTECT CIRCUIT
3	.	.	.
4	DEC/09/98	3.00	PC#5736 TRACES CHANGED POT SUPPORT SCREWS ADDED
5	.	.	.
6	NOV/20/01	3.10	PC#6466 LD7,LD8 NSL28AA->NSL32SR2
7	JUL/09/02	4.00	PC#6401 PARTS MOVED NEAR P2
8	OCT/25/02	4.10	PC#6568 R44/R41 10K->1K
9	APR/15/05	5.00	PC#6873 REDO SOLDERMASK
10	JUN/05/06	6.00	PC#7138:GT:CONVERT TO PCAD2002. CHANGE OPTO LIMITER TO 13600 #6745 LIMITERS FOR ROHS
11	.	.	REPLACE C3,C4,C9 AND C10 WITH #5234 470N 63V
12	.	.	REPLACE R31 AND R51 WITH #6139 62K 1/4W
13	.	.	.
1	.	.	REPLACE R4 WITH #6127 470K 1/4W
2	JUN/23/08	7.00	Removed shear, solder update, std board size
3	28-MAY-2009	8.00	CREATE X8011, M1128 FOR AP, VX AND M1133 FOR VTC
4	.	.	PC#7717, 7718 - M1133,V42 AND V44 CHANGE R34 AND R47 FROM 470R TO 2K #4808
5	.	.	.
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

X8011 DRILL HISTORY			
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

X8011 PENDING CHANGES			
MODEL(S):- AP4020 AND AP4040/VX2400 AND VX2402/V42 AND V44			
#	PC#	PENDING CHANGE	
1	PC	X	
2	PC	X	
3	PC	X	
4	PC	X	
5	PC	X	
6	PC	X	

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

LEAD/PIN REFERENCE



BC550C
BC560C

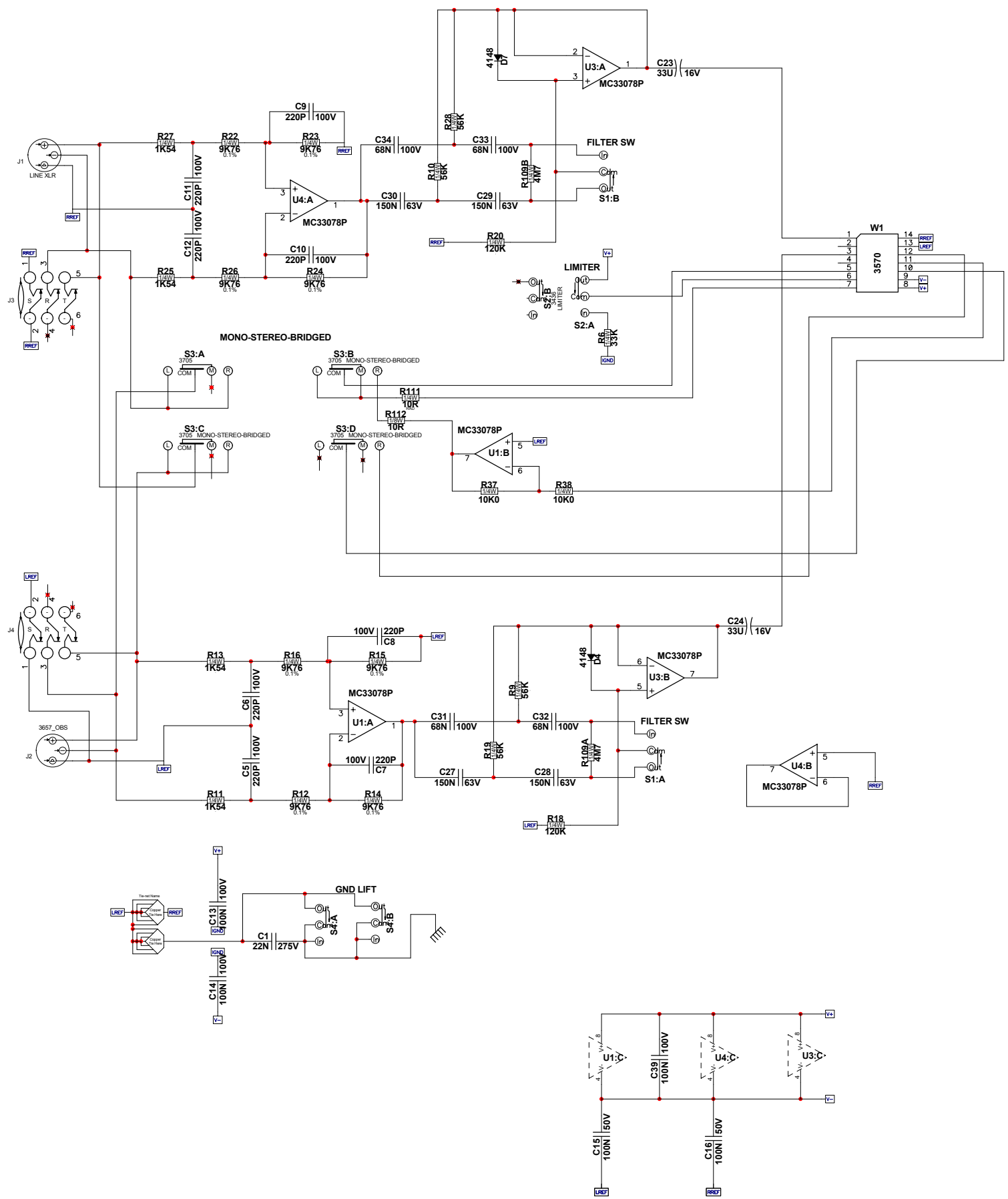


C B E
TO-92

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



E B C
TO-92



M1129 Database History		
MODEL(S):- AP2020 AP4040 AM1CE		
#	DATE	VER# DESCRIPTION OF CHANGE
1	OCT/97	1.00 FIRST PRODUCTION
2	NOV/97	2.00 SWITCH NETS RREF AND RSPRE WITH LSPRE AT 14 PIN CONNECTOR. INPUT TO NONINVERTING
3		
4	DEC/02/97	3.00 CHANGE C27, C29, C28, C30 TO 150N
5	APR/16/98	4.00 PC#5694 PINS 10-12 OF MC2 CONNECTED TO BRG SWT
6	JUL/01/98	4.00 ISOLATE PIN OF S3
7	SEP/06/01	4.10 PC#6436 REPLACE R119 (10K) WITH JUMPER X119
8	APR/15/05	5.00 PC#6873 REDO SOLDERMASK
9	JUL/2005	6.00 CONVERT TO PCAD2002, PC#6944:ROUTE GAUGE, PC#6914:ADD TARGETS
10	AUG-15-2005	
11	D	V N
12	D	V N
13	D	V N

M1129.sch_schematic-DATABASE_HISTORY		
MODEL(S):- AP4020 / AP4040 / AP2020 / AM1CE		
#	DATE	VER# DESCRIPTION OF CHANGE
1	OCT/1997	1.00 FIRST PRODUCTION
2	NOV/12/97	2.00 REVERSED INPUT POLARITY. MODIFIED FOR AP2020
3	DEC/02/97	2.00 C27, C28, C29, C30 TO 150n
4	APR/2/98	2.10 PC#6634 ADD NETS BRPRTCT, LVGND-28 TO BRG SW
5	SEP/06/01	2.20 DELETE R119
6	JUL/2005	3.00 CONVERT TO PCAD2002
7	D	V N
8	D	V N
9	D	V N
10	D	V N
11	D	V N
12	D	V N
13	D	V N

Product {Drawing Number}

{Title} PCB# M1129 Sheet 1 of 2

Date: Tue May 02, 2006 Rev: v6.00

Filename: M1129-6v00.sch2002

M1129.sch_schematic-DATABASE_HISTORY

MODEL(S):- AP4020 / AP4040 / AP2020 / AM1CE			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	OCT/1997	1.00	FIRST PRODUCTION
2	NOV/12/97	2.00	REVERSED INPUT POLARITY. MODIFIED FOR AP2020
3	DEC/02/97	.	C27, C28, C29, C30 TO 150n
4	APR/22/98	2.10	PC#5694 ADD NETS BRPRTCT, LVGND-28 TO BRG SW
5	SEP/06/01	2.20	DELETE R119
6	JUL/2005	3.00	CONVERT TO PCAD2002
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1129 DRILL HISTORY

MODEL(S):- AP2020/AP4020/AP4040/AM1CE			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	APR-03-2003	V06	N
2	AUG-15-2005	V07	CONVERT TO PCAD2002
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

M1129 Database History

MODEL(S):- AP2020 AP4020 AP4040 AM1CE			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	OCT/97	1.00	FIRST PRODUCTION
2	NOV/97	2.00	SWITCH NETS RREF WITH LREF AND RSPRE WITH
3	.	.	LSPRE AT 14 PIN CONNECTOR. INPUT TO NONINVERTING
4	DEC/02/97	.	CHANGE C27, C29, C28, C30 TO 150N
5	APR/16/98	3.00	PC#5694 PINS 10-12 OF MC2 CONNECTED TO BRG SWT
6	JUL/01/98	4.00	ISOLATE PIN OF S3
7	SEP/06/01	4.10	PC#6436 REPLACE R119 (10K0) WITH JUMPER X119
8	APR/15/05	5.00	PC#6873 REDO SOLDERMASK
9	JUL/2005	6.00	CONVERT TO PCAD2002, PC#6944:ROUTE GAUGE,
10	AUG-15-2005	.	PC#6914:ADD TARGETS
11	D	V	N
12	D	V	N
13	D	V	N

M1129 PRODUCTION NOTES

- 1 FOR XLR #3657 USE SCREW PT#8829 UP THROUGH THE BOTTOM
- 2 FOR M1129B VX1200/2400/J/2402 DO NOT STUFF X40 AND X41 ADD WIRES IN BOARD ASSEMBLY

M1129 PENDING CHANGES

MODEL(S):- AP2020/AP4020/AP4040/AM1CE		
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

***PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY**