

Service
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Service



Service Manual

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(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

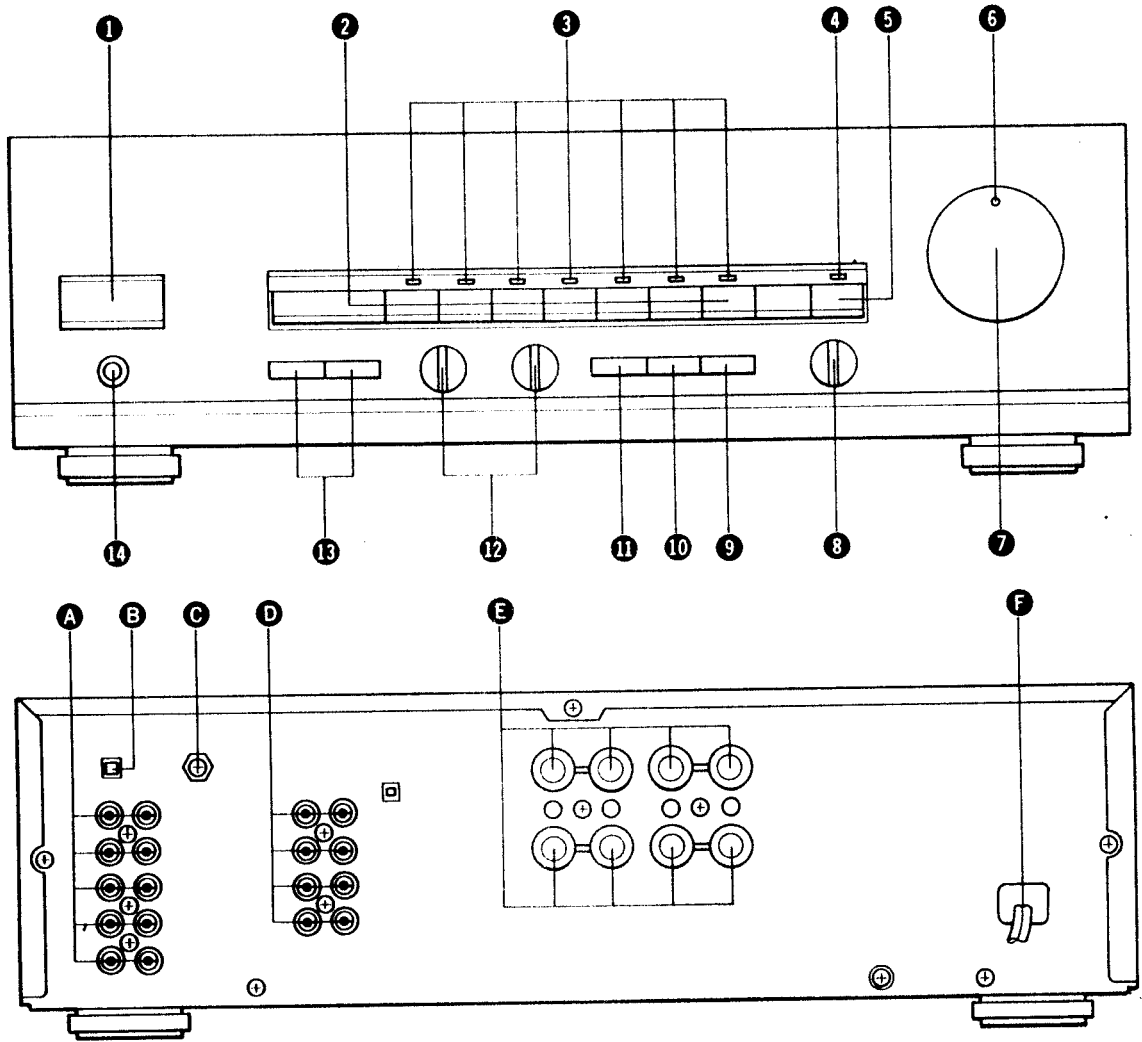
(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.



SPECIFICATION

	Nominal value	Typical value
General		
Mains voltage	: 220V ~ (/00R) : 240V ~ (/05R)	: 220V ~ (/00R) : 240V ~ (/05R)
Mains frequency	: 50 – 60 Hz	: 50 – 60 Hz
Power consumption	: 280W max	: 280W
Dimensions (WxHxD)	: 420 x 110 x 260 mm	: 420 x 110 x 260 mm
Weight	: 6.7 kg	: 6.7 kg
Amplifier		
Output power	: 65W in 8Ω (IEC)	: 65W in 8Ω (IEC)
Distortion (55W output) T.H.D.	: ≤ 0.05% at 1 kHz : ≤ 0.05% at 63 Hz–12.5 kHz } (IEC) : ≤ 0.05% at 60/7000 Hz 4:1	: ≤ 0.008% at 1 kHz : ≤ 0.03% at 63 Hz–12.5 kHz } (IEC) : ≤ 0.03% at 60/7000 Hz 4:1
Intermodulation		
Frequency characteristic		
Phono input } tone control	: from 20 Hz – 20 kHz ±1 dB (IEC)	: from 20 Hz – 20 kHz ±0.5 dB (IEC)
Other inputs } neutral	: from 20 Hz – 30 kHz ±1 dB	: from 15 Hz – 45 kHz ±1 dB
Bass control	: at 100 Hz +10 dB to –10 dB ±2 dB	: at 100 Hz +10 dB to –10 dB
Treble control	: at 10 kHz +10 dB to –10 dB ±2 dB	: at 10 kHz +10 dB to –10 dB
Loudness	: at 100 Hz +6 dB ±2 dB } Tap position : at 10 kHz +4 dB ±1.5 dB } : at 15 Hz –3 dB ±1.5 dB	: at 100 Hz +6 dB } Tap position : at 10 kHz +4 dB } : at 15 Hz –3 dB
Subsonic filter		
Signal/noise ratio weighted (A-curve)		
Phono input MC (0.5 mV input)/ MM (5 mV input)	: for 55W output ≥ 68 dB/80 dB	: for 55W output ≥ 74 dB/86 dB
Other inputs	: for 55W output ≥ 96 dB	: for 55W output ≥ 100 dB
Channel separation	: at 1000 Hz ≥ 62 dB : at 250 Hz – 10 kHz ≥ 45 dB	: at 1000 Hz ≥ 68 dB : at 250 Hz – 10 kHz ≥ 52 dB
Input sensitivity/Input impedance		
Audio		
Phono (MC)	: 250 μV ± 30 μV/100Ω ± 10Ω	: 250 μV/100Ω
(MM)	: 2.6 mV ± 0.3 mV/47 kΩ ± 5Ω	: 2.6 mV/47 kΩ
Other inputs	: 150 mV ± 20 mV/≥ 17 kΩ	: 150 mV/22 kΩ
Output level/Output impedance		
Tape 1, 2	: 250 mV/270Ω (Phono MM 5 mV 1 kHz input)	: 280 mV/270Ω (Phono MM 5 mV 1 kHz input)



CONNECTIONS AND CONTROLS

- | | | |
|----|------------------------|------------|
| 1 | Mains switch | S901 |
| 2 | Function switch | SS01 |
| 3 | Function indicator | DY01~DY07 |
| 4 | Loudness indicator | DY08 |
| 5 | Loudness switch | SS02 |
| 6 | Volume/Power indicator | DY51 |
| 7 | Volume control | RG01 |
| 8 | Balance control | RE33 |
| 9 | Source direct switch | SE02 |
| 10 | Subsonic filter switch | |
| 11 | Mono switch | RE13, RE25 |
| 12 | Tone control | |
| 13 | LS switch | S701 |
| 14 | Phones socket | JW51 |

- | | | |
|---|-----------------------|------------|
| A | Input | JV01, JV02 |
| B | Phono selector switch | S401 |
| C | Ground terminal | J031 |
| D | Tape input/output | JJ01, JJ02 |
| E | LS output A/B | JW01, JW02 |
| F | Mains cord | W001 |

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(GB) Mains voltage changeover method

To make the unit usable with the other local mains voltage than the factory setting, modify the lead wire connection on the primary side of the power transformer as follows.

1. With units of the /00R version, the rated voltage is 220V. To change the mains voltage for the unit to the same 240V as the /05R version, exchange the connections of the White and Red lead wires.
2. With units of the /05R version, the rated voltage is 240V. To change the mains voltage for the unit to the same 220V as the /00R version, exchange the connections of the Red and White lead wires.
3. If the unit has already experienced the voltage changeover of 1 or 2 above, confirm which of the Red (240V) or White (220V) lead wires is connected to the fuse (F901) before attempting to change the connections.

(NL) Methode voor instellen op de netspanning

Verander de aansluiting van de draden op de primaire kant van de transformator als volgt om het toestel geschikt te maken voor werking op een andere netspanning dan die waarop het toestel bij levering op ingesteld staat.

1. Bij toestellen van de /00R versie, is de nominale spanning 220V.
Verwissel de aansluiting van de witte en rode draden om het toestel aan te passen voor 240V zoals de toestellen van de /05R versie.
2. Bij toestellen van de /05R versie, is de nominale spanning 240V.
Verwissel de aansluiting van de rode en witte draden om het toestel aan te passen voor 220V zoals de toestellen van de /00R versie.
3. Als het toestel reeds eenmaal aangepast is volgens bovenstaande procedure 1 of 2, controleer dan of de rode (240V) of witte (220V) draad aangesloten is op de zekering (F901) alvorens de aansluiting om te wisselen.

(F) Méthode de changement de la tension

Pour rendre l'appareil utilisable sur une autre tension secteur locale que celle réglée en usine, modifier la connexion du fil conducteur sur le côté primaire du transformateur d'alimentation comme suit.

1. Sur les appareils de la version /00R, la tension nominale est de 220V.
Pour changer la tension secteur de l'appareil sur les 240V comme pour la version /05R, changer les connexions des fils conducteurs blanc et rouge.
2. Sur les appareils de la version /05R, la tension nominale est de 240V.
Pour changer la tension secteur de l'appareil sur les 220V comme pour la version /00R, changer les connexions des fils conducteurs rouge et blanc.
3. Si l'appareil a déjà subi le changement de tension de 1 ou 2 ci-dessus, vérifier le fil conducteur, rouge (240V) ou blanc (220V), raccordé au fusible (F901) avant de tenter de changer les connexions.

(D) Methode zum Umstellen der Netzspannung

Zur Verwendung dieses Gerätes mit anderen Netzspannungen als der ab Werk eingestellten, müssen die Kabelanschlüsse an der Primärseite des Netztransformators wie folgt verändert werden.







1. Bei Geräten der Version /00R ist die Nennspannung 220V.
Zum Umstellen der Netzspannung des Gerätes auf 240V wie bei der Version /05R müssen die Anschlüsse des weißen und des roten Kabels ausgetauscht werden.
2. Bei Geräten der Version /05R ist die Nennspannung 240V.
Zum Umstellen der Netzspannung des Gerätes auf 220V wie bei der Version /00R müssen die Anschlüsse des roten und des weißen Kabels ausgetauscht werden.
3. Falls beim Gerät bereits die unter 1 oder 2 beschriebene Spannungsumstellung durchgeführt wurde, muß festgestellt werden, ob das rote Kabel (240V) oder das weiße Kabel (220V) mit der Sicherung (F901) verbunden ist, bevor die Anschlüsse vertauscht werden.

(I) Metodo di regolazione del voltaggio di rete

Per poter utilizzare l'unità con voltaggi di rete diversi da quello previsto in fabbrica, modificate il collegamento dei fili sul lato primario del trasformatore di potenza nel modo che segue.

1. Per le unità della versione /00R, il voltaggio normale è di 220V.
Per cambiare il voltaggio dell'unità ai 240V della versione /05R, cambiate le posizioni dei fili bianco e rosso.
2. Per le unità della versione /05R, il voltaggio normale è di 240V.
Per cambiare il voltaggio dell'unità ai 220V della versione /00R, cambiate le posizioni dei fili rosso e bianco.
3. Se il voltaggio dell'unità è stato già cambiato come visto ai punti 1 o 2, controllate quale dei due fili rosso (240V) o bianco (220V) è collegato al fusibile (F901) prima di cambiare i collegamenti.

Idling Current

SK... SWITCH	 SIGNAL	 TO	 VOLUME	 ADJUST	 OSCILLOSCOPE	 D.C. METER INDICATOR
			Min.	Lch R747		Lch J707 DC2mV (11mA)
				Rch R748		Rch J708 DC2mV (11mA)

(GB) Notes:

- Adjust the trimming resistor so that the DC voltmeter reads 2 mV when the MAINS switch is set to ON.
- If the heat-sink temperature is higher than the ambient temperature, switch the power OFF, and leave the unit until the heat-sink temperature falls equal to or below the ambient temperature before proceeding to the idling current adjustment.
- For the idling current adjustment, adjust the R channel first, then the L channel.

(NL) Opmerkingen:

- Stel de trimweerstand zo af dat de gelijkspanning-voltmeter 2mV aangeeft wanneer de MAINS schakelaar op ON wordt gezet.
- Als de temperatuur van de warmteput hoger is dan de omringende temperatuur, schakel dan de spanning uit totdat de temperatuur van de warmteput gelijk is aan of lager is dan de omringende temperatuur alvorens over te gaan tot aanpassen op de stationaire stroom.
- Bij het afstellen van de blinde stroom moet eerst het R-kanaal worden afgesteld en daarna het L-kanaal.

(F) Remarques:

- Ajuster la résistance d'écrétage de sorte que le voltmètre CC indique 2 mV quand l'interrupteur MAINS est allumé (ON).
- Si la température de la plaque de refroidissement est supérieure à la température ambiante, couper l'alimentation et laisser l'appareil jusqu'à ce que la température de la plaque de refroidissement soit égale ou inférieure à la température ambiante avant de passer à l'ajustement du courant déwatté.
- Pour le réglage de la puissance réactive, ajuster le canal R (droit) en premier lieu, puis le canal L (gauche).

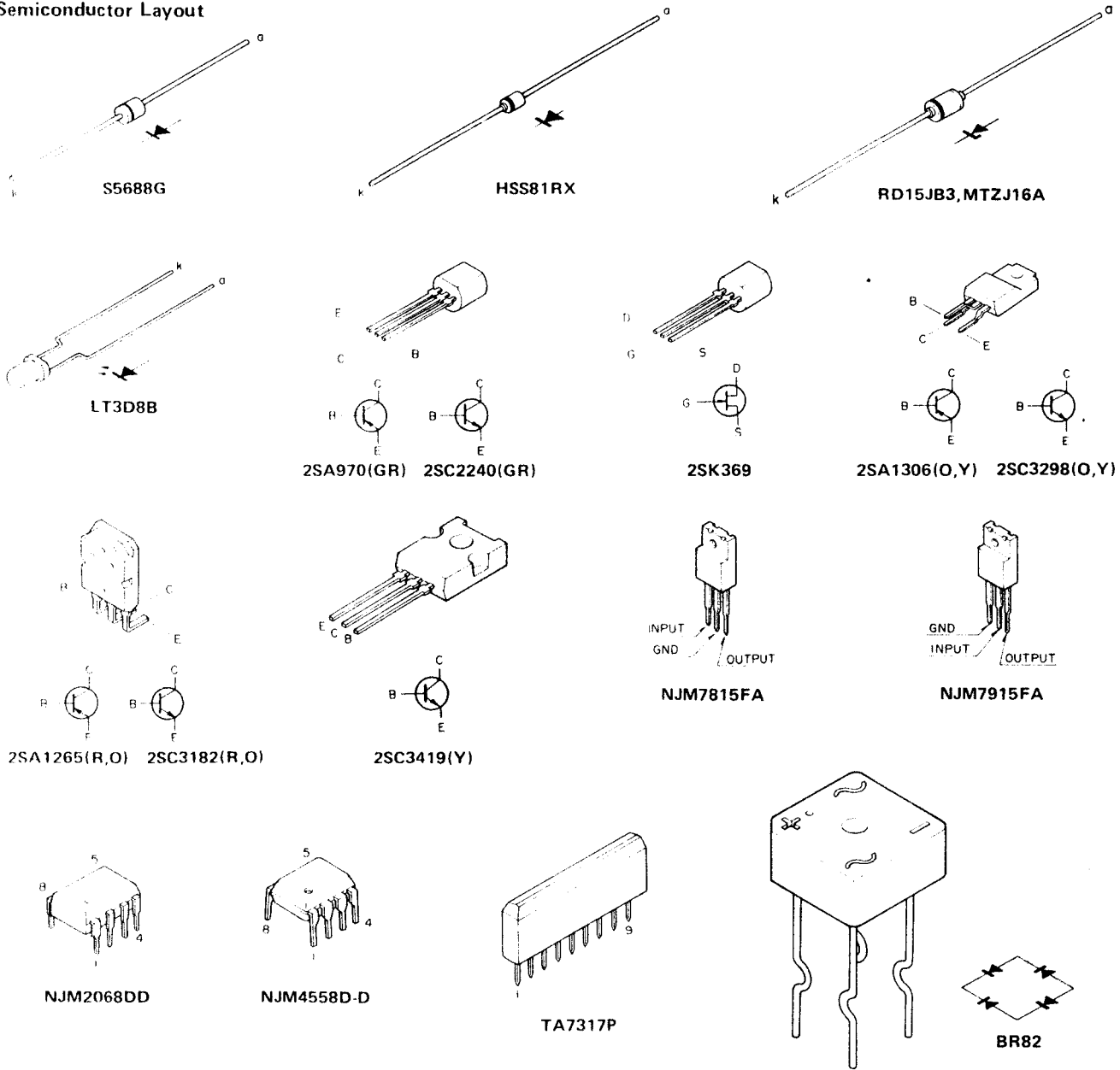
(D) Anmerkungen:

- Den Trimmwiderstand so einstellen, daß das Gleichstrom-Voltmeter 2 mV anzeigt, wenn der MAINS-Schalter auf ON gestellt wird.
- Wenn die Temperatur des Kühlkörpers höher ist als die Umgebungstemperatur, die Spannungsversorgung ausschalten und warten, bis die Temperatur des Kühlkörpers gleich der oder niedriger als die Umgebungstemperatur wird, bevor die Ruhestrom-Einstellung durchgeführt wird.
- Für die Ruhestrom-Einstellung zuerst den rechten und dann den linken Kanal einstellen.

(I) Note:

- Regolare la resistenza variabile in modo che il voltmetro CA indichi 2mV quando l'interruttore MAINS si trova su ON.
- Se la temperatura degli organi di dispersione del calore è superiore a quella dell'ambiente, spegnete l'unità e lasciatela raffreddare sino a che la sua temperatura non diviene uguale o inferiore a quella ambiente, quindi procedete con la regolazione della corrente a riposo.
- Per la regolazione della corrente reattiva, regolare prima il canale destro R e quindi il canale sinistro L.

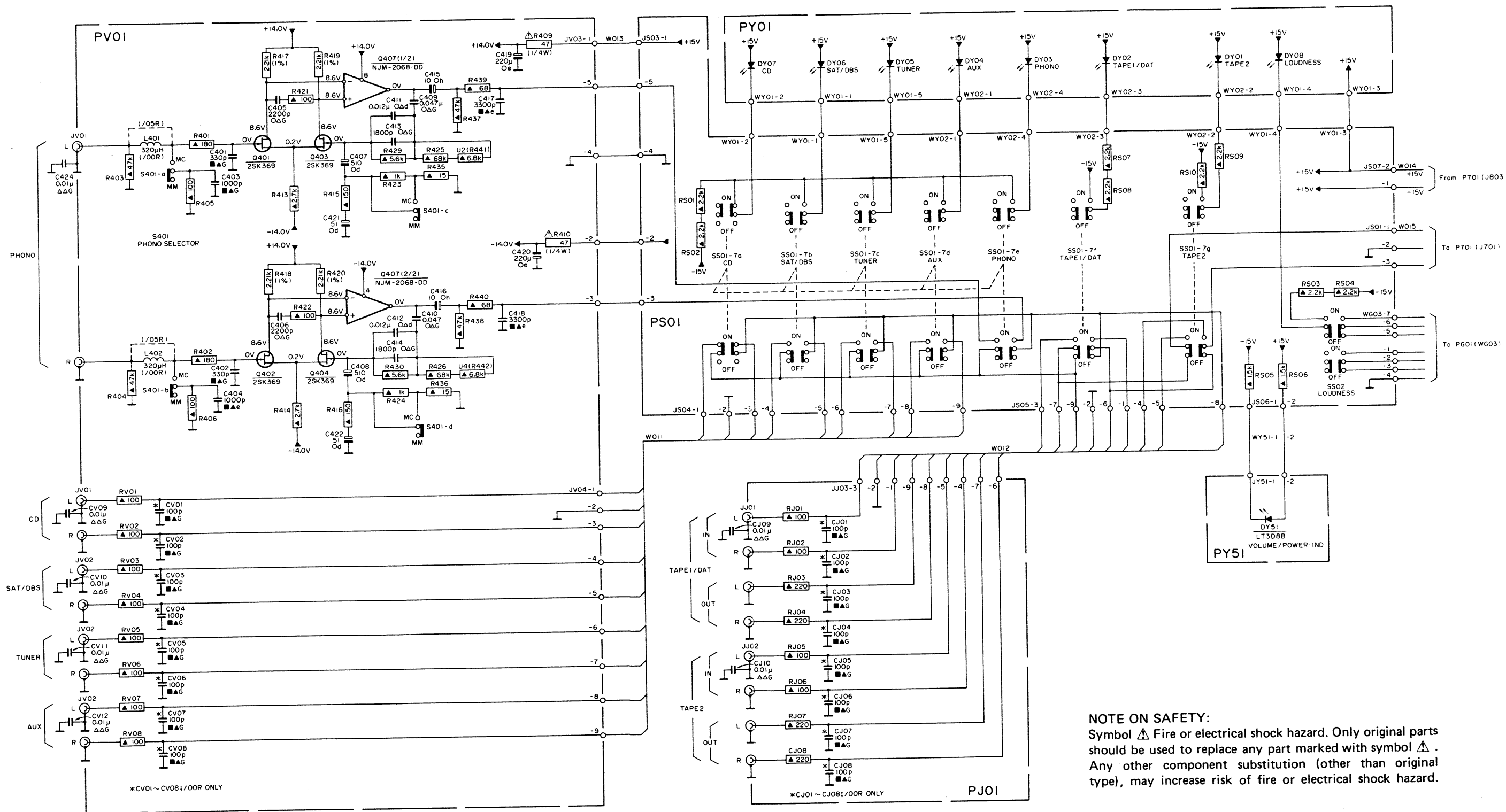
Semiconductor Layout



	Carbon film 0.125 W or 0.2 W	70°C	5%		Ceramic plate Tuning ≤ 120 pF NP.0	2%	*a = 2.5 V b = 3.15 V or 4 V c = 6.3 V d = 10 V e = 16 V f = 25 V g = 40 V h = 63 V j = 100 V l = 125 V m = 150 V n = 160 V q = 200 V r = 250 V s = 300 V t = 350 V u = 400 V v = 500 V w = 630 V x = 1000 V A = 1.6 V B = 6 V C = 12 V D = 15 V E = 20 V F = 35 V G = 50 V H = 75 V I = 80 V
	Carbon film 0.25 W or 0.33 W	70°C	5%		Polyester flat foil	10%	
	Metal film 0.25 W or 0.33 W	70°C	5%		Metalized polyester flat film	10%	
	Carbon film 0.5 W	70°C	5%		Polyester flat foil small size (Mylar)	10%	
	Carbon film 0.67 W	70°C	5%		Polysterene film/foil	1%	
	Carbon film 1 W or 1.15 W	70°C	5%		Tubular ceramic		
					Miniature single		
					Subminiature tantalum	$\pm 20\%$	
	Chip component						

SCHEMATIC DIAGRAM

R	RV01~RV08 R403 R404 R405 R406 R401 R402 R417 R418 R413~R416 R419~R422 R429 R430 R423~R426 R441 R442 R435~R440 R409 R410	RS01 RS02	RJ01~RJ08	RS07 RS08	RS10 RS09 RS05 RS06 RS03 RS04	R
C	C424 CV09~CV12 CV01~CV08 C401~C404 C405~C408 C421 C422 C409~C414 C415 C416 C417 C418 C419 C420	CJ09 CJ10	CJ01~CJ08	DY06 DY05 DY04 DY03 DY02	DY01 DY51 DY08	C
Q - D	Q401 Q402 Q403 Q404 Q407	D'07	DY06	DY05	DY04	Q - D
L - S	L401 L402 S401-a S401-b	SS01-7a	SS01-7b	SS01-7c	SS01-7d	L - S
			SS01-7e	SS01-7f	SS01-7g	

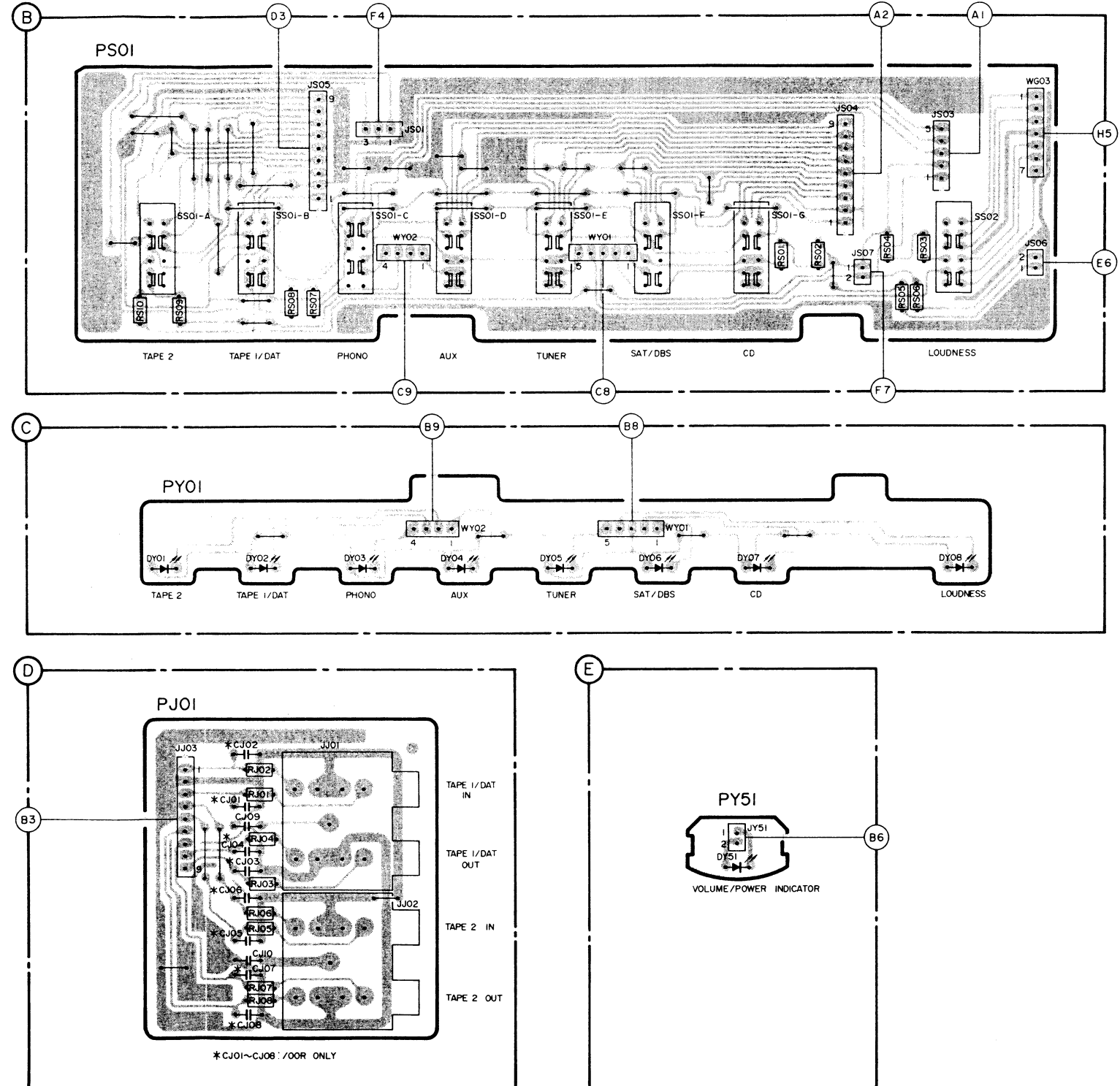
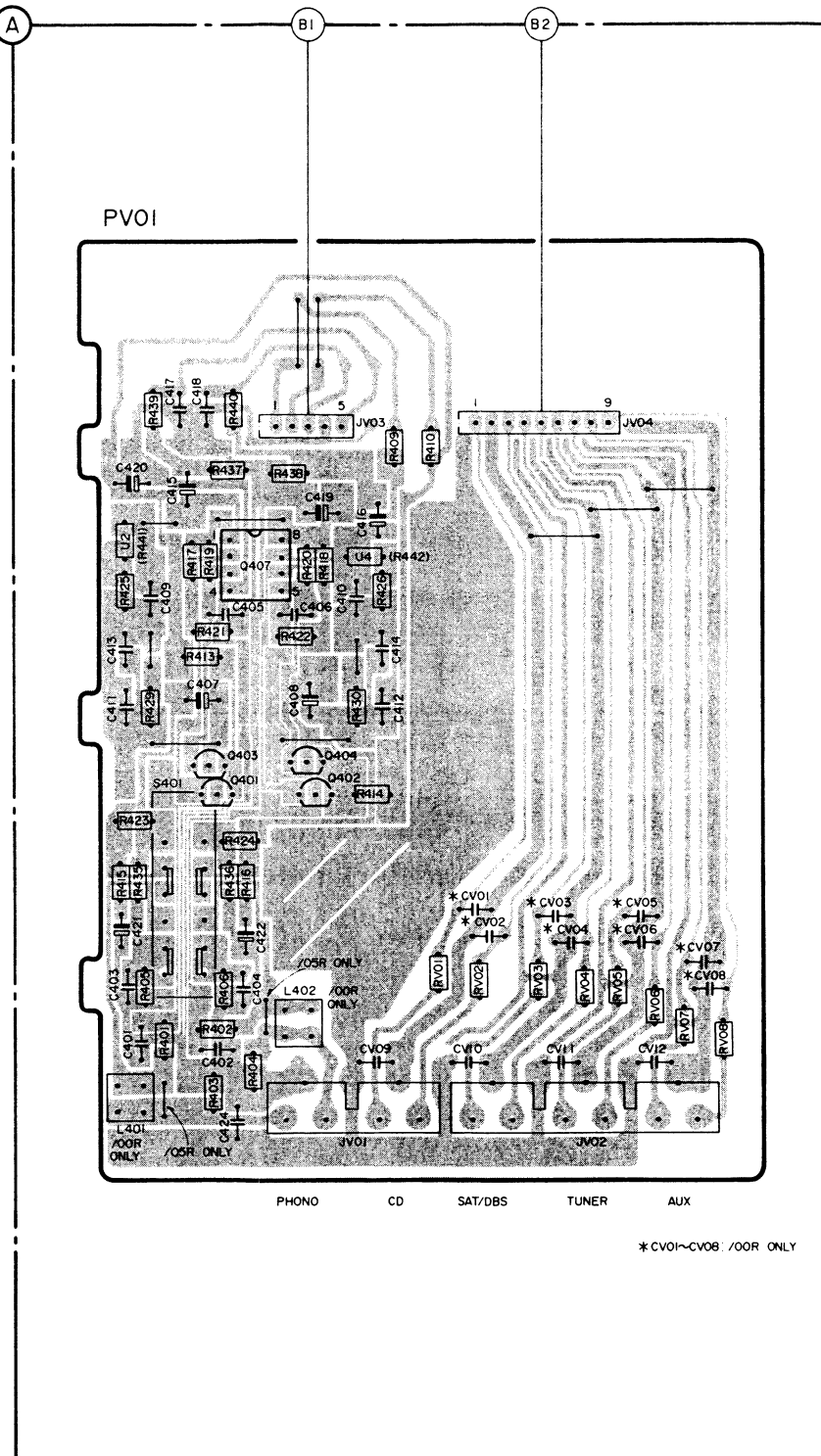


NOTE ON SAFETY:
 Symbol Δ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol Δ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

WIRING DIAGRAM

R	R441 R425 R429 R437~R440 R413 R417~R422 R442 R426 R409 R410	RS10 RS09	RS08 RS07	RS01 RS02	RS03~RS06	R				
	R415 R435 R423 R401~R406 R436 R416 R424 R430 R414	RV01 RV02	RV03 RV04 RV05 RV06 RV07 RV08							
C	C420 C409 C417 C415 C418 C405~C408 C419 C410 C416	CV01 CV02	CV03 CV04	CV05 CV06 CV07 CV08		C				
	C413 C411 C421 C401~C404 C424 C422	CV09 C414 C412	CV10	CV11	CV12					
Q	Q407 Q401~Q404					Q				
D		DY01	DY02	DY03	DY04	DY05	DY06	DY07	DY08	D
L-S	L401 S401	SS01-A	SS01-B	SS01-C	SS01-D	SS01-E	SS01-F	SS01-G	SS02	L-S

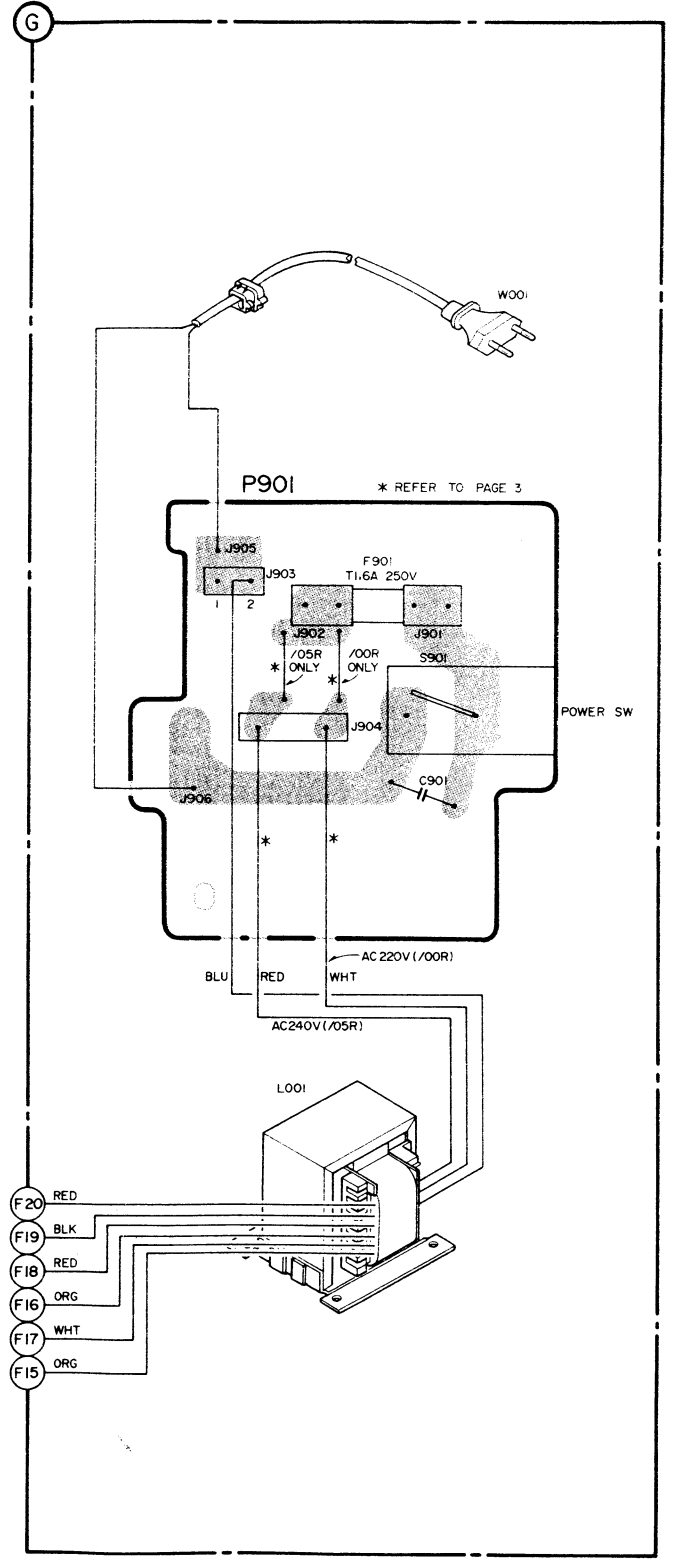
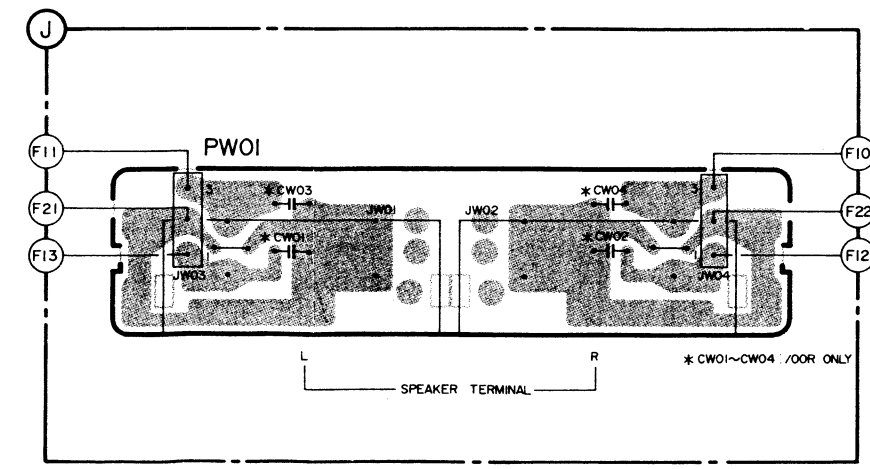
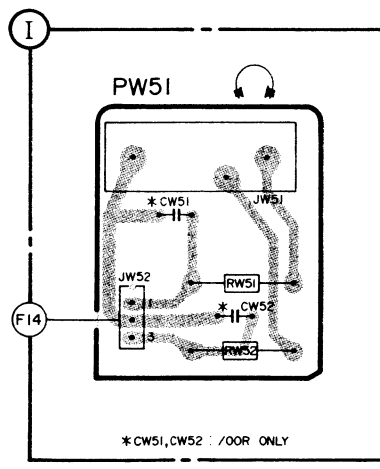
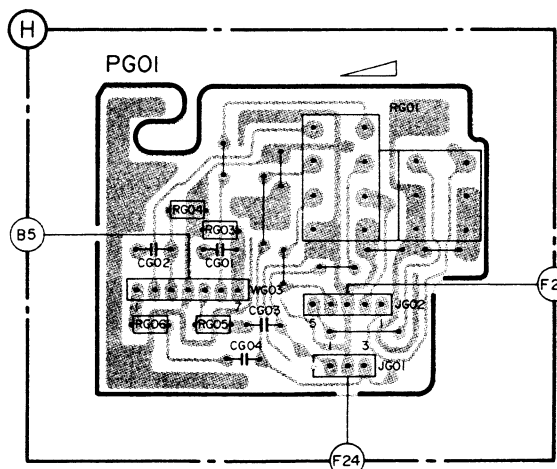
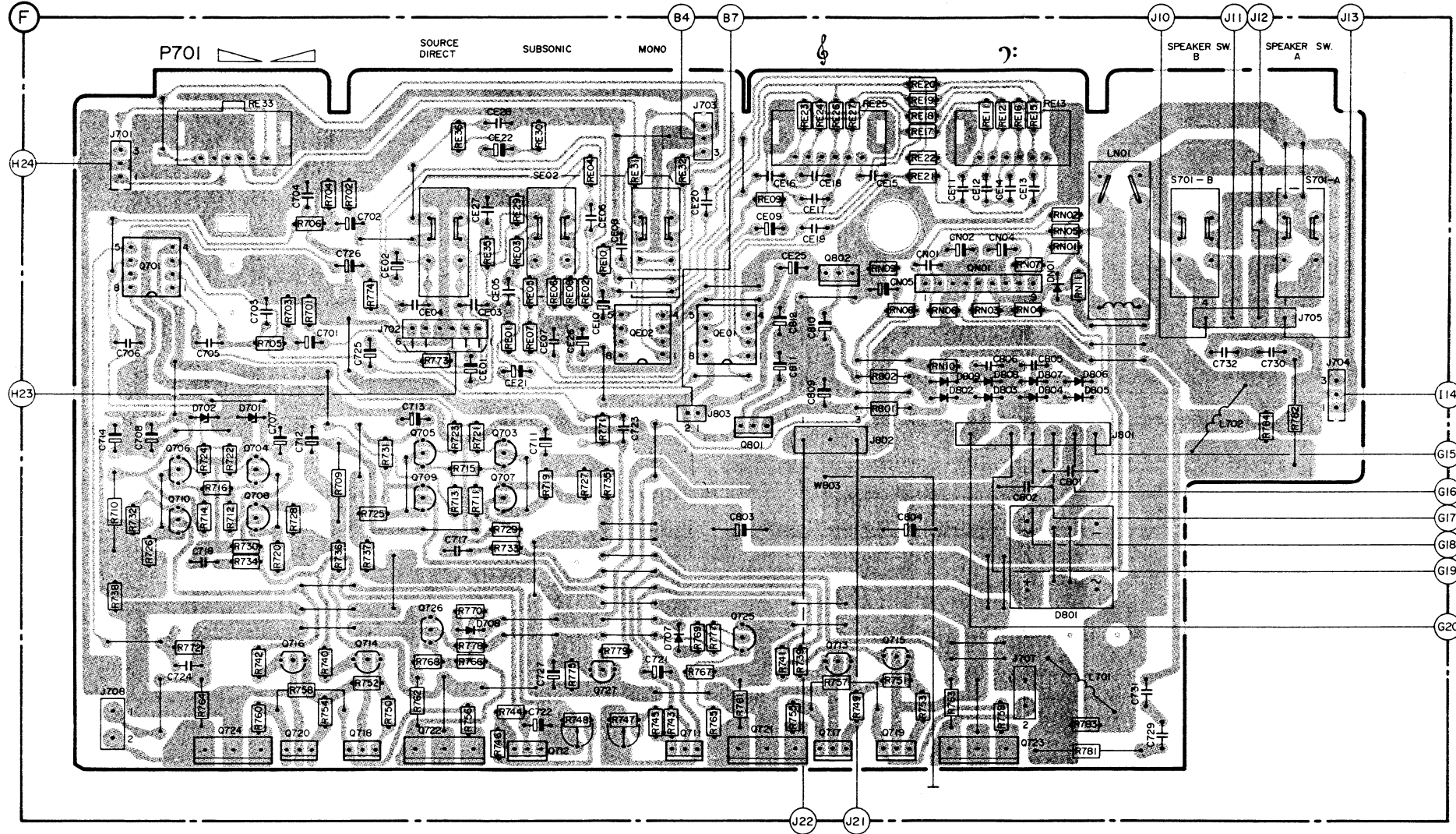
COMPONENT SIDE VIEW



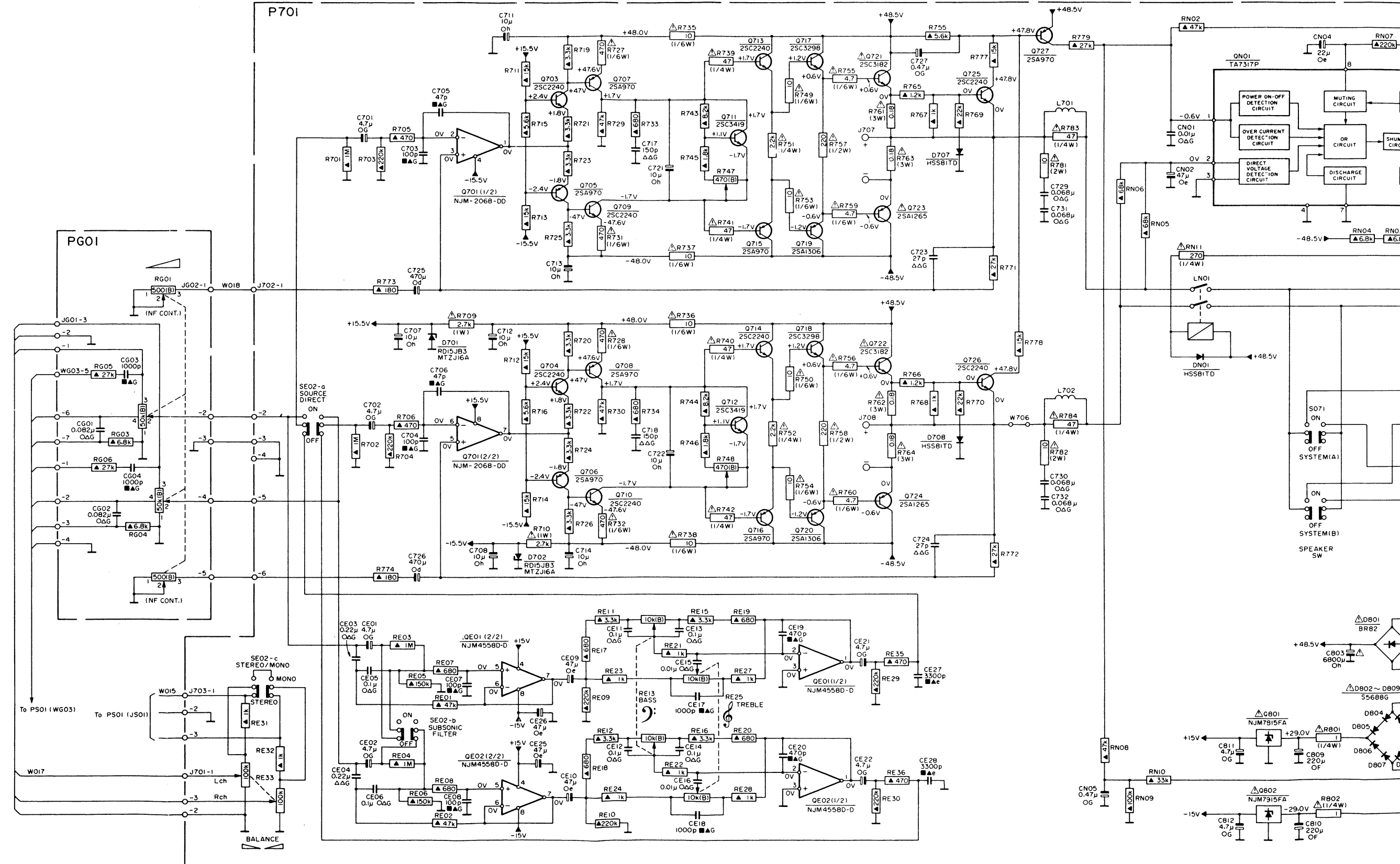
WIRING DIAGRAM

R	R738 R710 R732 R726 R714 R716 R712 R720 R728 R736 R737 R725 R731 R762 R713 R723 R715 R711 R721 R729 R733 R719 R727 R771 R735 R767 R769 R777	R773 R736 R735 R729 R730 R701 R708 R710 R731	RE 32	RE09 RE23 RE27	RE17 RE22	RE11 RE12 RE16 RE15 RE13 RNO2 RNO5	R784 R782	R
	R738 R710 R732 R726 R714 R716 R712 R720 R728 R736 R737 R725 R731 R762 R713 R723 R715 R711 R721 R729 R733 R719 R727 R771 R735 R767 R769 R777	R773 R736 R735 R729 R730 R701 R708 R710 R731	RE 32	RE09 RE23 RE27	RE17 RE22	RE11 RE12 RE16 RE15 RE13 RNO2 RNO5	R784 R782	
C	C706 C705 C703 C704 C701 C726 C702	C714 C708 C724 C716 C707 C712 C725 C713 C717 CE0A CE27 CE21 C711 C722 C727 C723 C721	CE20	CE09 CE16 CE25 CE17 CE19 CE15	CN05 CN01 CN02	CN04 CE11 CE14	C732 C730	C
	C706 C705 C703 C704 C701 C726 C702	C714 C708 C724 C716 C707 C712 C725 C713 C717 CE0A CE27 CE21 C711 C722 C727 C723 C721	CE20	CE09 CE16 CE25 CE17 CE19 CE15	CN05 CN01 CN02	CN04 CE11 CE14	C732 C730	
Q	Q701 Q706 Q704	Q705 Q703	QE02	QE01 Q801	Q802	QN01	C901	Q
	Q701 Q706 Q704	Q705 Q703	QE02	QE01 Q801	Q802	QN01	C901	
D	D702 D701	D708	D707	D802 D809 DN01 DB01				D
	D702 D701	D708	D707	D802 D809 DN01 DB01				
F-L-S		SE02		L701 LN01 S701-B L702 S701-A			L001 F901	F-L-S

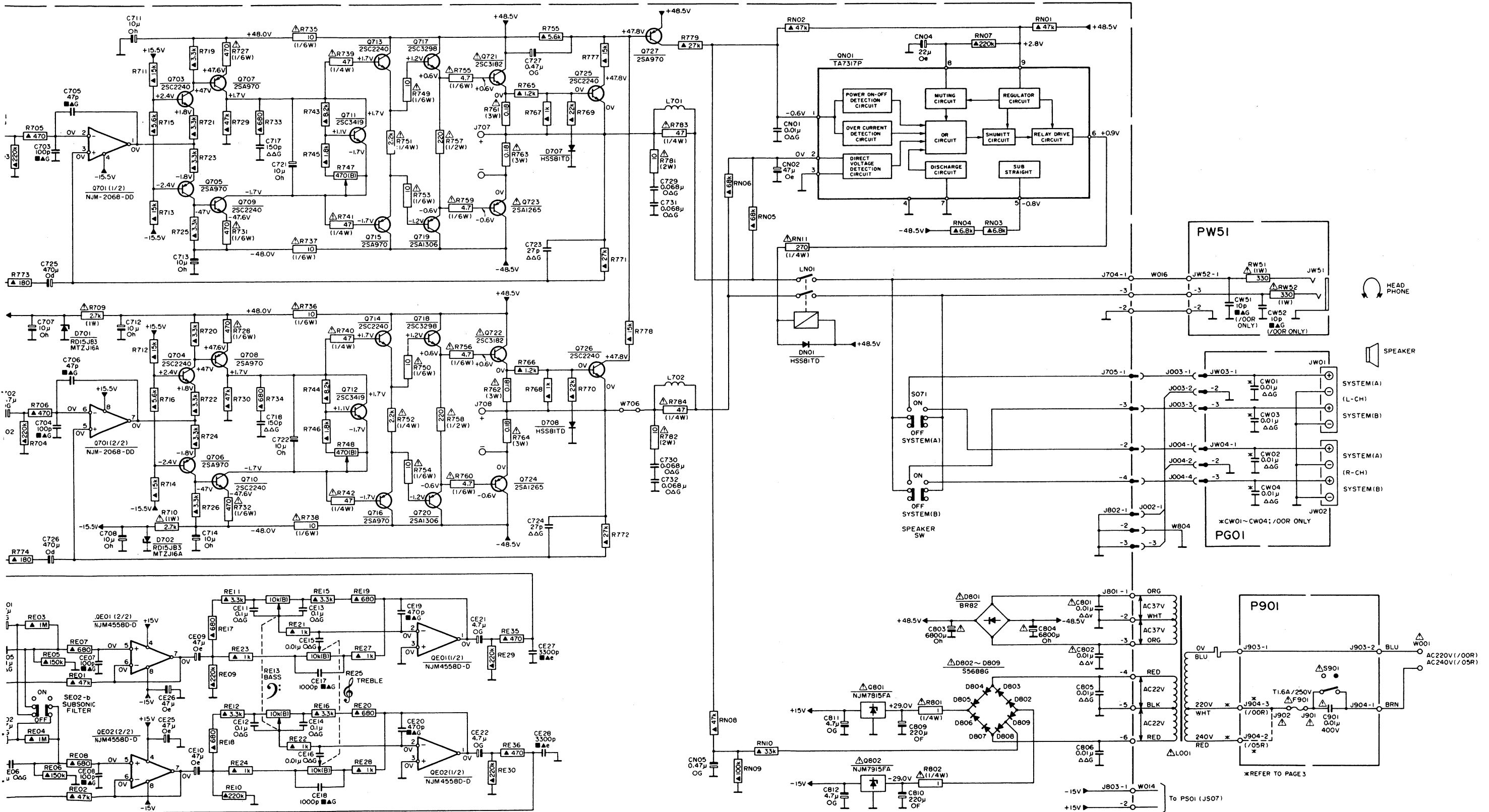
COMPONENT SIDE VIEW



R	RG05	RG01	R701 R703 R773 R705	R701 R703 R773 R705	R711~R716 R719~R726	R727~R734	R735~R738 R739~R746	R751 R749 R753 R757 R755 R759	R755	R769 R777	R770 R771 R778 R781 R783	R779	RN06 RN05	RN02	RN07	
C	CG03	CG04	C701 C703 C705	C701 C703 C705	C711 C713	C717 C721	C715 C719	C727 C723	C724	C727 C731	C729 C732	CN01	CN02	C811	C809	
Q - D	CG02	CG02	CE01~CE06	CE07 CE08	CE26 CE25 CE09 CE10	CE11 CE12	CE13~CE18	CE19 CE20	CE21 CE22	CE27 CE28	CN05	CN02	CN01	C812	C809	
S - L			SE02-c	SE02-a	SE02-b	Q701(1/2)	Q703 Q705 Q707 Q709	Q711 Q713 Q715 Q717 Q719	Q711 Q713 Q715 Q717 Q719	Q721 Q723	Q707 Q725	Q727	Q727	Q727	Q727	
						Q702(2/2)	Q702 Q704 Q706 Q708 Q710	Q712 Q714 Q716 Q718 Q720	Q712 Q714 Q716 Q718 Q720	Q722 Q724	Q708 Q726			L701 L702	LN01	S071

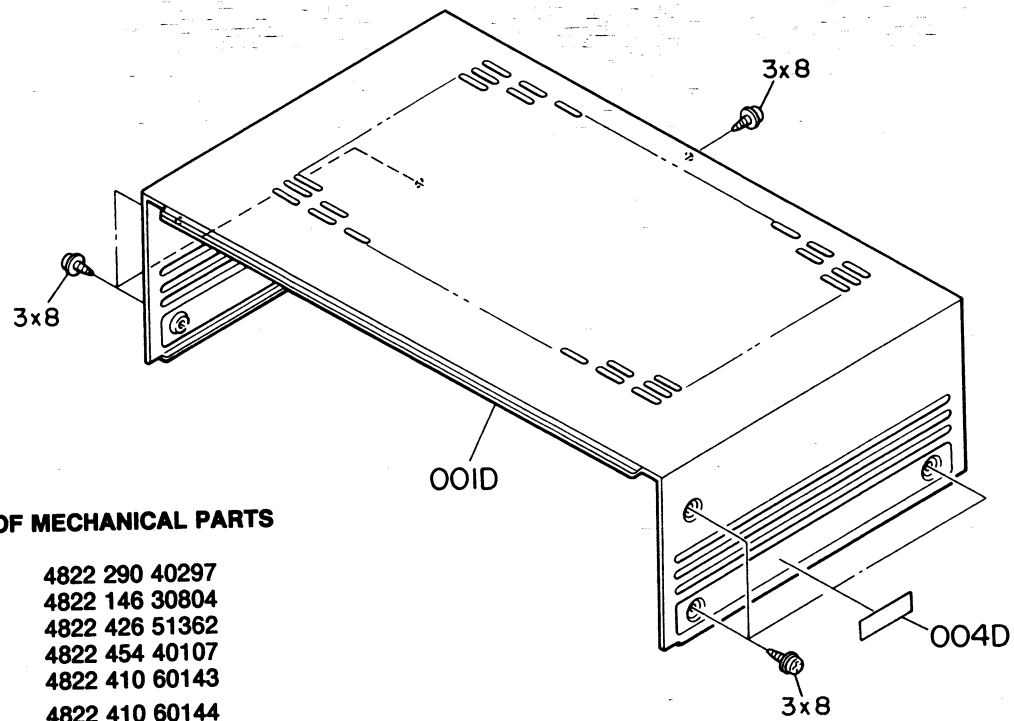


R773 R705	R711~R716 R719~R726	R727~R734	R735~R738 R739~R746	R751 R749 R753 R757 R755 R759	R755	R769 R777	R779	RNO6 RNO5	RNO2	RNO7	RNO1	RW51 RW52	R
R774 R706	R709	R710	RE09~RE12 RE13	RE15 RE16 R747 R748 R752 R750 R754 R758 R756 R760 R761~R768	R770 R771 R778 R781 R783	R782 R784	RNO8 RNO9 RNO10	RNO1	RNO4 RNO3	RNO7	RNO1		
RE01~RE08	C711	C713	C717	C721	C727 C723	C729 C731	CNO1	CNO4	C801 C802	C801 C802	C801 C802	CW51 CW52	
C725 C703 C705	C708 C712	C714	C718	C722	C724	C730 C732	CNO2	CNO4	C809	C810	C803	CW01 CW03	
C706	CE07 CE08	CE26 CE25 CE09 CE10	CE11 CE12	CE13~CE18	CE19 CE20	CE21 CE22	CE27 CE28	CNO5	C804	C805 C806	C805 C806	CW02 CW04	C901
Q701 Q701	QEO1(2/2)	Q703 Q705 Q707 Q709	Q711 Q713	Q715 Q717	Q719 QEO1(1/2)	Q721 Q723	Q707 Q725	Q727	Q729	Q727	Q727	Q727	Q727
QEO2(2/2)	Q702 Q704 Q706 Q708 Q710	Q712 Q714	Q716 Q718	Q720 QEO2(1/2)	Q722 Q724	Q708 Q726	Q708 Q726	Q727	Q729	Q727	Q727	Q727	Q727
SE02-d								L701 L702	LN01	Q801 Q802	S071	L001	S901



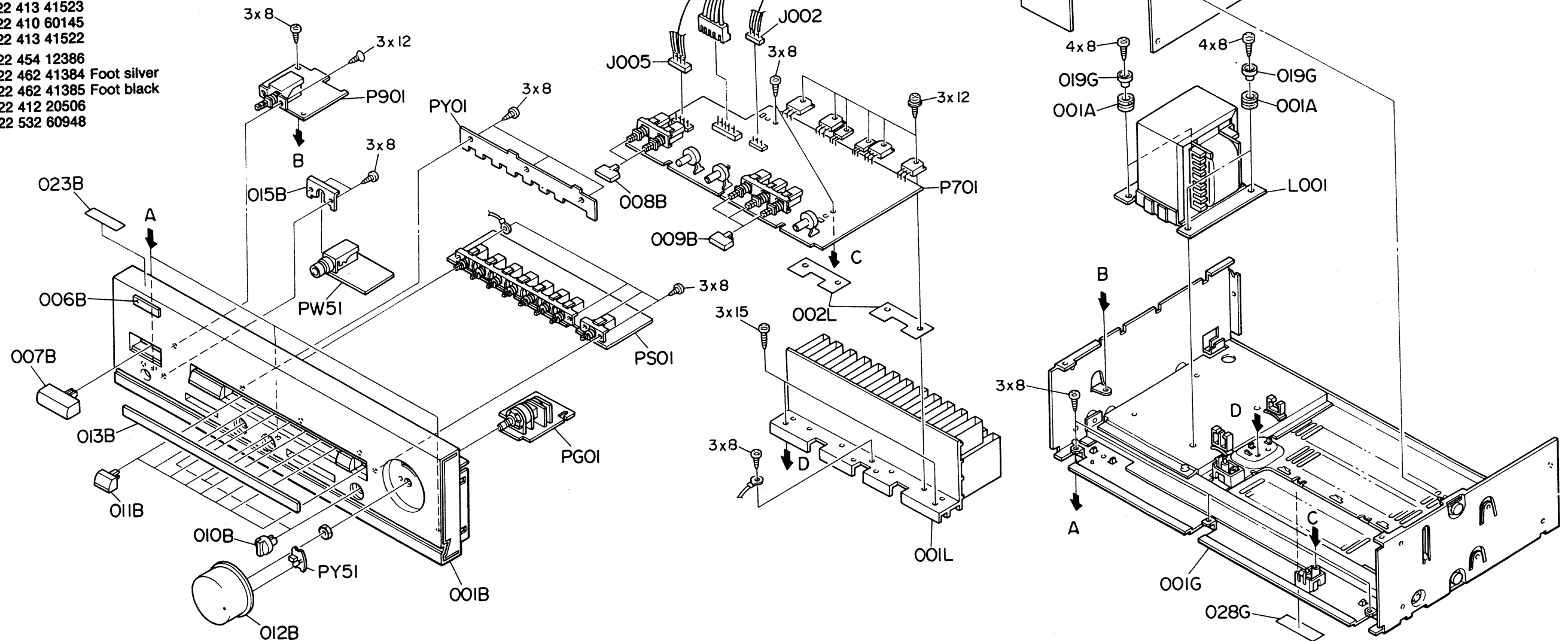
NOTE ON SAFETY:
 Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

EXPLODED VIEW



LIST OF MECHANICAL PARTS

J031	4822 290 40297
L001	4822 146 30804
001B	4822 426 51362
006B	4822 454 40107
007B	4822 410 60143
008B	4822 410 60144
009B	4822 410 60144
010B	4822 413 41523
011B	4822 410 60145
012B	4822 413 41522
013B	4822 454 12386
011G	4822 462 41384 Foot silver
012G	4822 462 41385 Foot black
029G	4822 412 20506
902G	4822 532 60948



Remark:
 Only the parts provided with a Service codenumber are available as Service spare parts.

	<p>C407 4822 124 22279 C408 4822 124 22279 C413 4822 123 30054 C414 4822 123 30054 C421 4822 124 22278 C422 4822 124 22278 C802 4822 122 30043 C803 4822 124 22175 C804 4822 124 22175 C901 4822 122 33276</p>	<p>Cap. electr. 510 μF 10V Cap. electr. 510 μF 10V Cap. mica 0.0018 μF 50V Cap. mica 0.0018 μF 50V Cap. electr. 51 μF 10V Cap. electr. 51 μF 10V Cap. ceramic 0,01 μF 500V Cap. electr. 6800 μF 63V Cap. electr. 6800 μF 63V Cap. ceramic 0.01 μF 400V</p>		<p>4822 130 61358 4822 130 61362 4822 130 60117 4822 130 61746 4822 130 42949 4822 130 43231 4822 130 61747 4822 130 42839</p>	<p>2SA1306 O or Y 2SC3298 O or Y 2SC3419 Y 2SA1265 R or O 2SA970 (GR) 2SC2240 (GR) 2SC3182 R or O 2SK369</p>
	<p>RE13 4822 101 30637 RE25 4822 101 30637 RE33 4822 101 30627 RG01 4822 100 20695 RN11 4822 116 80828 RW51 4822 111 50474 RW52 4822 111 50474 R409 4822 111 90731 R410 4822 111 90731 R417 4822 116 81354 R418 4822 116 81354 R419 4822 116 81354 R420 4822 116 81354 R709 4822 116 60351 R710 4822 116 60351 R727 4822 116 81862 R728 4822 116 81862 R731 4822 116 81862 R732 4822 116 81862 R735 4822 111 91291 R736 4822 111 91291 R737 4822 111 91291 R738 4822 111 91291 R739 4822 116 60295 R740 4822 116 60295 R741 4822 116 60295 R742 4822 116 60295 R747 4822 100 11426 R748 4822 100 11426 R749 4822 111 91291 R750 4822 111 91291 R751 4822 116 81315 R752 4822 116 81315 R753 4822 111 91291 R754 4822 111 91291 R755 4822 116 80955 R756 4822 116 80955 R757 4822 116 60319 R758 4822 116 60319 R759 4822 116 80955 R760 4822 116 80955 R761 4822 116 80171 R762 4822 116 80171 R763 4822 116 80171 R764 4822 116 80171 R781 4822 111 90726 R782 4822 111 90726 R783 4822 111 30006 R784 4822 111 30006 R801 4822 116 60307 R802 4822 116 60307</p>	<p>Potm. 10K bass Potm. 10K treble Potm. 100K balance Potm. 50K-500N volume Res. fuse 270 Ω 1/4W Res. safety 330 Ω 1W Res. safety 330 Ω 1W Res. fuse 47 Ω 1/4W Res. fuse 47 Ω 1/4W Res. metal 2.21K 1% 1/6W Res. metal 2.21K 1% 1/6W Res. metal 2.21K 1% 1/6W Res. metal 2.21K 1% 1/6W Res. safety 2.7K 1W Res. safety 2.7K 1W Res. safety 470 Ω 1/6W Res. safety 470 Ω 1/6W Res. safety 470 Ω 1/6W Res. safety 470 Ω 1/6W Res. safety 10 Ω 1/6W Res. safety 10 Ω 1/6W Res. safety 10 Ω 1/6W Res. safety 10 Ω 1/6W Res. fusible 47 Ω 1/4W Res. fusible 47 Ω 1/4W Res. fusible 47 Ω 1/4W Res. fusible 47 Ω 1/4W Potm. trimm. 470 Ω Potm. trimm. 470 Ω Res. safety 10 Ω 1/6W Res. safety 10 Ω 1/6W Res. fuse 2.2K 1/4W Res. fuse 2.2K 1/4W Res. safety 10 Ω 1/6W Res. safety 10 Ω 1/6W Res. safety 4.7 Ω 1/6W Res. safety 4.7 Ω 1/6W Res. fusible 220 Ω 1/2W Res. fusible 220 Ω 1/2W Res. safety 4.7 Ω 1/6W Res. safety 4.7 Ω 1/6W Res. safety 0.18 Ω 3W Res. safety 0.18 Ω 3W Res. safety 0.18 Ω 3W Res. safety 0.18 Ω 3W Res. safety 10 Ω 2W Res. safety 10 Ω 2W Res. safety 47 Ω 1/4W Res. safety 47 Ω 1/4W Res. fusible 1 Ω 1/4W Res. fusible 1 Ω 1/4W</p>		<p>4822 209 73064 4822 209 83631 4822 209 83317 4822 209 61256 4822 209 83312</p>	<p>NJM2068-DD NJM4558D-D NJM7815FA NJM7915FA TA7317P</p>
	<p>BR82 HSS81TD LT3D8B RED RD15JB3, MTZJ16A S5688G</p>	<p>4822 130 81093 4822 130 80837 4822 130 80326 4822 130 80322 4822 130 80839</p>			
-MISCELLANEOUS-					
<p>F901 JJ01 JJ02 JV01 JV02 JW01 JW02 JW51 J031 J901 J902 LN01 L001 L401 /00R L402 /00R L701 L702 SE02 SS01 SS02 S401 S701 S901</p>	<p>4822 253 30191 4822 267 20382 4822 267 20382 4822 265 30397 4822 265 30457 4822 266 30279 4822 266 30281 4822 267 30617 4822 290 40297 4822 267 30978 4822 256 30329 4822 280 91103 4822 146 30804 4822 156 11019 4822 156 11019 4822 157 51739 4822 157 51739 4822 276 12617 4822 276 12619 4822 276 12618 4822 276 20468 4822 276 20477 4822 276 11898</p>	<p>Fuse 1.6A 250V Jack 4P Jack 4P Jack 4P Jack 6P Speaker terminal Speaker terminal Headphone jack Ground terminal Holder, fuse Holder, fuse Relay DC 48V Trans. mains Coil, choke 320 MH Coil, choke 320 MH Coil, choke Coil, choke Switch, pushbut. Switch, pushbut. Switch, pushbut. Switch, pushbut. Switch, pushbut. Switch, pushbut.</p>			