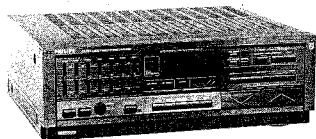


Service  
Service  
Service



# 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.

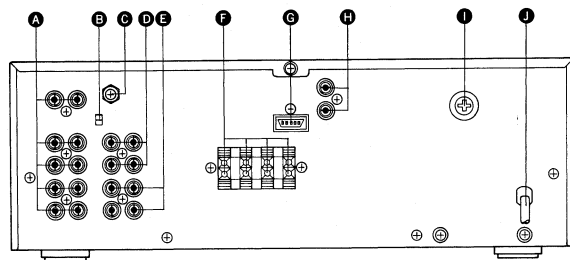
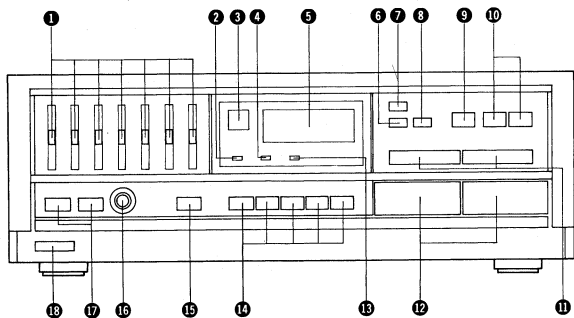
**(I)**

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

General	Nominal value	Typical value
Mains voltage	: 220V ~ (/00R) : 240V ~ (/05R)	: 220V ~ (/00R) : 240V ~ (/05R)
Mains frequency	: 50 - 60 Hz	: 50 - 60 Hz
Power consumption	: 230W max	: 268W max
Dimensions (WxHxD)	: 360 x 120 x 300 mm	: 360 x 120/128 x 300 mm
Weight	: 7.1 kg	: 7.1 kg
<b>Amplifier</b>		
Output power	: 50W in 8 $\Omega$ (IEC)	: 50W in 8 $\Omega$ (IEC)
Distortion		
T.H.D.	: $\leq$ 0.05% at 1 kHz : $\leq$ 0.1% at 63 Hz-12.5 kHz : $\leq$ 0.05% at 60/7000 Hz 4:1	: $\leq$ 0.01% at 1 kHz : $\leq$ 0.1% at 65 Hz-12.5 kHz : $\leq$ 0.02% at 60/7000 Hz 4:1
Intermodulation		
Frequency characteristic		
Phono input tone control	: from 20 Hz - 20 kHz $\pm$ 1.5 dB (IEC)	: from 20 Hz - 20 kHz $\pm$ 0.5 dB (IEC)
Other inputs neutral	: from 20 Hz - 20 kHz $\pm$ 2 dB	: from 10 Hz - 30 kHz $\pm$ 2 dB
Frequency equalizer control	: at 64 Hz +10 dB to -10 dB $\pm$ 2 dB : at 150 Hz +10 dB to -10 dB $\pm$ 2 dB : at 400 Hz +10 dB to -10 dB $\pm$ 2 dB : at 1 kHz +10 dB to -10 dB $\pm$ 2 dB : at 2.5 kHz +10 dB to -10 dB $\pm$ 2 dB : at 6.3 kHz +10 dB to -10 dB $\pm$ 2 dB : at 15 kHz +10 dB to -10 dB $\pm$ 2 dB	: at 64 Hz +10 dB to -10 dB : at 150 Hz +10 dB to -10 dB : at 400 Hz +10 dB to -10 dB : at 1 kHz +10 dB to -10 dB : at 2.5 kHz +10 dB to -10 dB : at 6.3 kHz +10 dB to -10 dB : at 15 kHz +10 dB to -10 dB
Signal/noise ratio weighted (A-curve)		
Phono input	: for 50W output $\geq$ 77 dB (IEC)	: for 50W output $\geq$ 77 dB (IEC)
Other inputs	: for 50W output $\geq$ 95 dB (IEC)	: for 50W output $\geq$ 95 dB (IEC)
Channel separation	: at 1000 Hz $\geq$ 55 dB : at 250 Hz - 10 kHz $\geq$ 35 dB	: at 1000 Hz $\geq$ 65 dB : at 250 Hz - 10 kHz $\geq$ 45 dB
Input sensitivity/Input impedance		
Audio		
Phono	: 2.8 mV/47 k $\Omega$	: 2.5 mV/47 k $\Omega$
Tuner/CD/Aux/Tape	: 150 mV/25 k $\Omega$	: 150 mV/25 k $\Omega$
TV/Video	: 150 mV/25 k $\Omega$	: 150 mV/25 k $\Omega$
Output level/Output impedance		
Tape (Audio)	: 220 mV/3.5 k $\Omega$ (Phono 5.0 mV 1 kHz input)	: 220 mV/3.5 k $\Omega$ (Phono 5.0 mV 1 kHz input)



CONNECTIONS AND CONTROLS

1	Graphic equalizer control	RF51~RF57	16	Headphone socket	JW01
2	Volume memory indicator	DR07	17	LS A/B switch	SR17, SR18
3	Remote control sensor	QR01	18	Mains switch	SP01
4	Volume preset indicator	DR08			
5	Display	VR01	A	Input	J401, JS01, JS02
6	Volume preset switch	SR02	B	Mode switch	SS71
7	Volume memory switch	SR01	C	Ground terminal	JO31
8	Muting switch	SR03	D	Video input/output	JS71
9	Copy switch	SR15	E	Tape input/output	JS72
10	Video/tape monitor switch	SR04, SR05	F	LS output A/B	J751
11	Balance left/right switch	SR06, SR07	G	Convenient bus	JV02
12	Volume up/down switch	SR08, SR09	H	Remote control bus	JV01
13	Muting indicator	DR09	I	Fuse holder	JO01
14	Function switch	SR10~SR14	J	Mains cord	W001
15	EQ defeat switch	SR16			

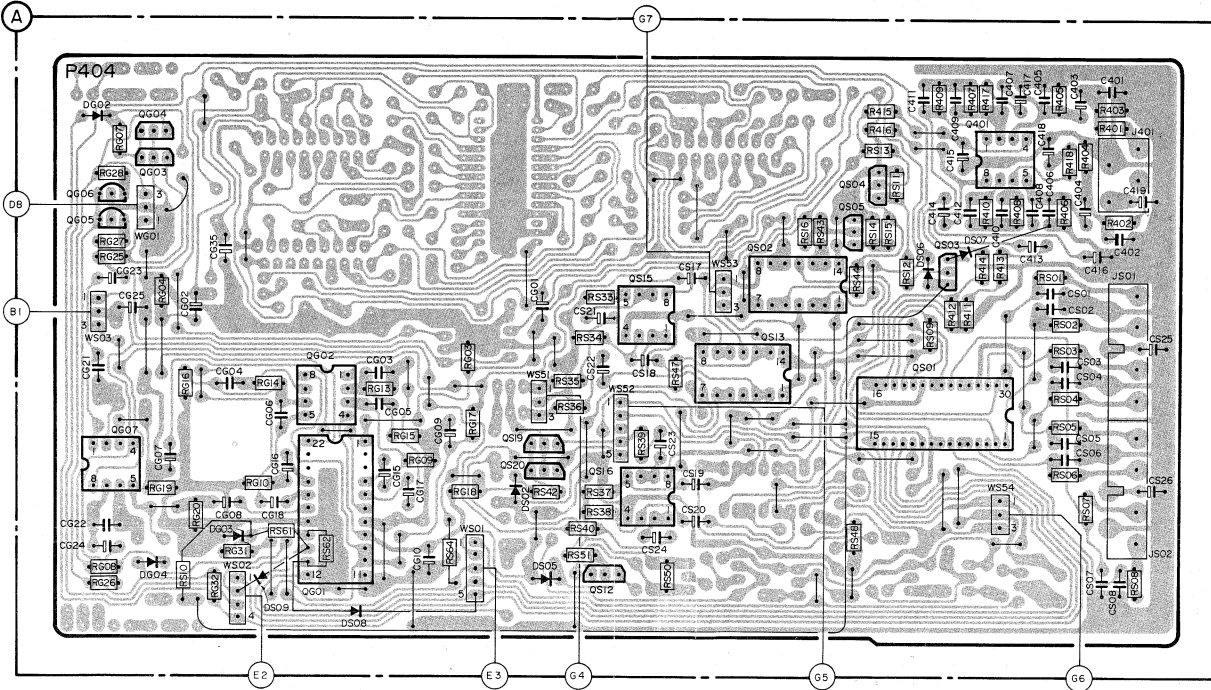
Idling Current

SK... SWITCH						
			Min.	Lch R719		Lch TP1(+), TP3(-) (Both ends of R755) DC3mV (15mA)
				Rch R720		Rch TP2(+), TP4(-) (Both ends of R756) DC3mV (15mA)

	Carbon film 0.125 W or 0.2 W	70°C	5%		Ceramic plate Tuning ≤ 120 pF NP.0 2% Others -20/+80%	*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 i = 100 V j = 125 V m = 150 V n = 180 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%		Polyesterene film/foil	1%
	Carbon film 1 W or 1.15 W	70°C	5%		Tubular ceramic	
	Chip component				Miniature single	
					Subminiature tantalum	± 20%

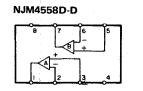
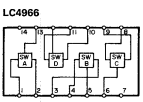
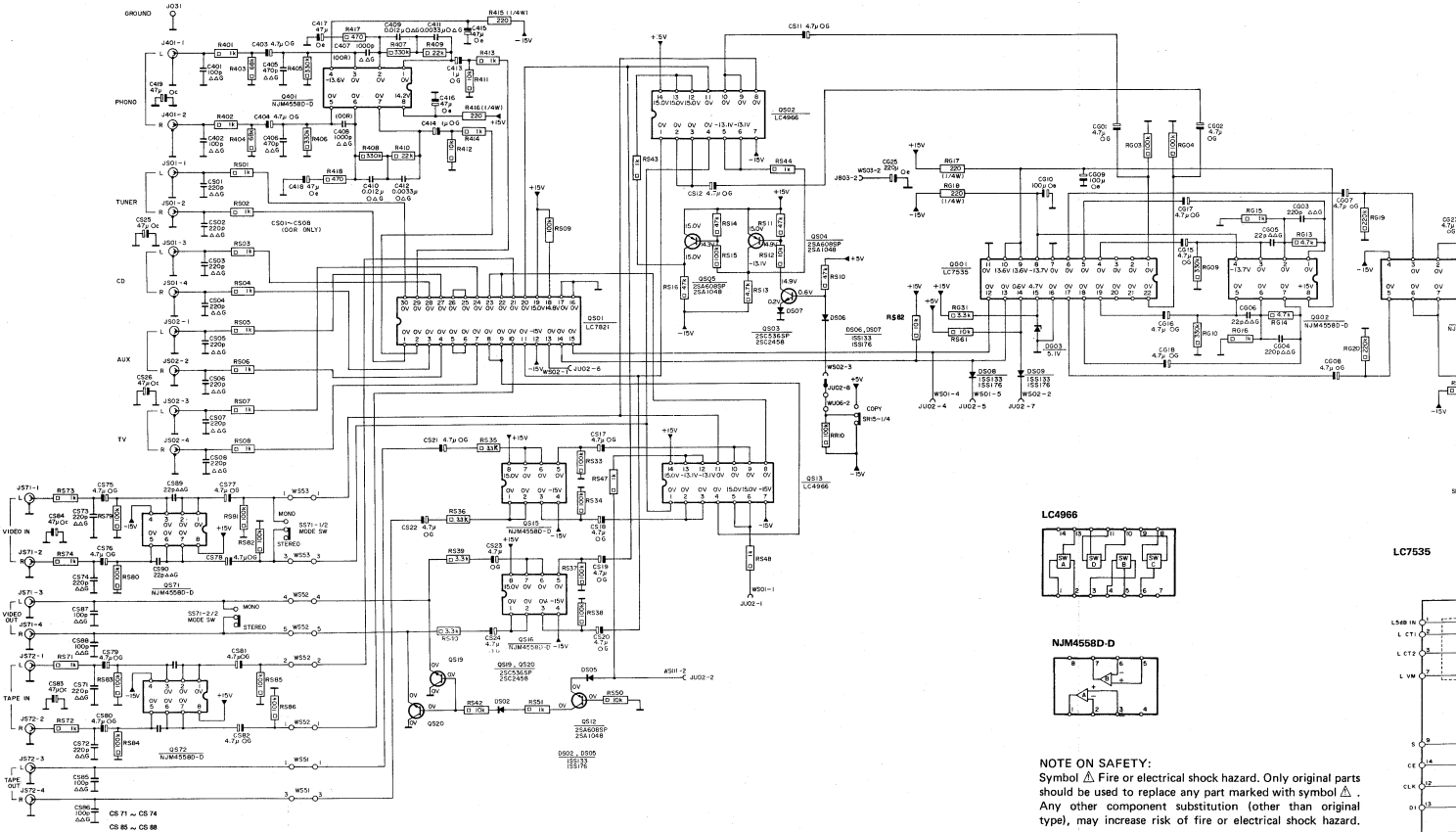
WIRING DIAGRAM

	RG25~RG28 RG9 RG20RG16	RG15	RS64 RS42 RS33~RS40	R407~R414 R417 RS01	R401~R406
R	RG08 RG07 RG04 RG32 RG31	RG19 RG03	RS50	RS48 RS16 RS43 R415 R416 RS09	R418 RS01~RS08
	RS10 RG10 RG14 RS61 RS62	RG13	RG17 RG18 RS51	RS47	RS31 RS44 RS11~RS15
	CG21~CG25	CG19 CG17	CS17~CS20 CS11	C401~C415 C416	C418 CS25
C	CG07 CG04 CG06 CG18 CE20	CG03 CG10 CG01	CS21~CS24	C418	C419 C426
	CG02 CG08 CG16 CG35	CG05			CS01~CS08
Q	QG03~QG07	QG02 QG01	QS19 QS20 QS12 QS15 QS16	QS13	QS01~QS05 Q401
D - G	DG02 DG04	DG03 DS09 DS08	DS02 DS05		DS06 DS07

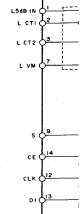


### SCHEMATIC DIAGRAM

R	R501~R508 R401~R406	R618 R417	R407~R410	R411~R416	R509	R543	R510~R516	R544	R517 R518	R55						
C	C571~C574	C575~C586	C419 C501~C508	C401~C406	C418 C417	C407~C410	C411~C416	C521~C524	C517~C520	C511	C529	C510 C509	C515~C518	C503 C504	C509 R510 R513~R516	R562 R520 R526
D	D 5	D 6	D 7	D 8	Q401	Q519 Q520 Q501	Q515 Q516	Q512 Q502 Q505	Q502 Q513	Q503~Q505 Q507 Q503 Q506	Q508 Q509	Q603 Q601	Q503~Q508	Q502		
S	S 6		S571	S551						S505~U4		SE01 SE02				



LC7535

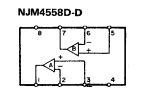
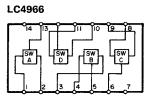
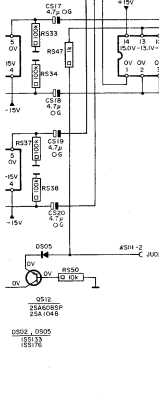
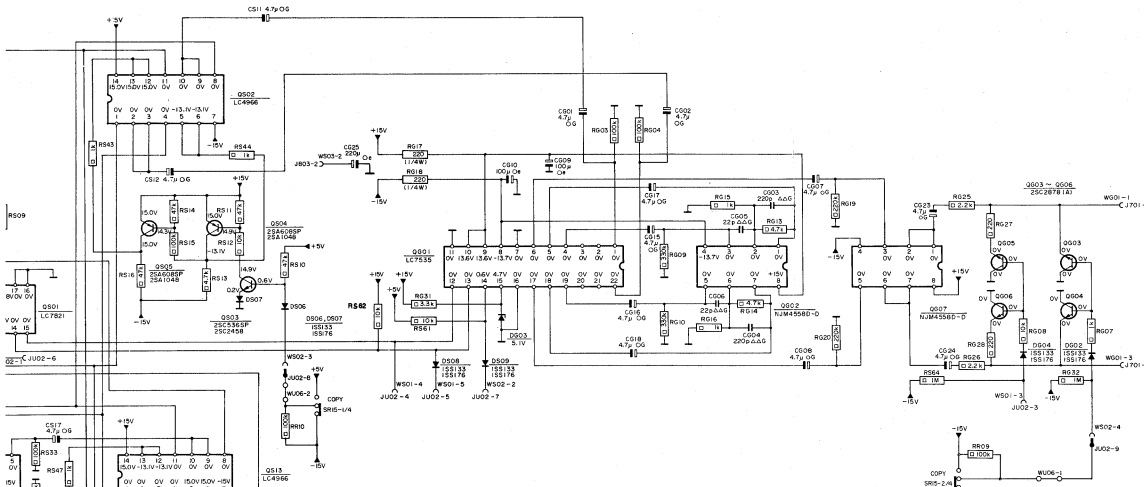


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 Symbol Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

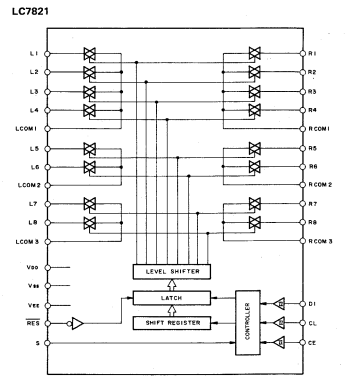
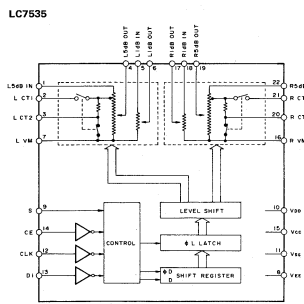
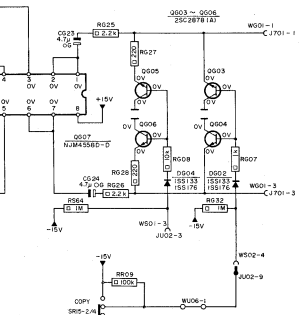
(R/R only)

SCHEMATIC DIAGRAM

R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000
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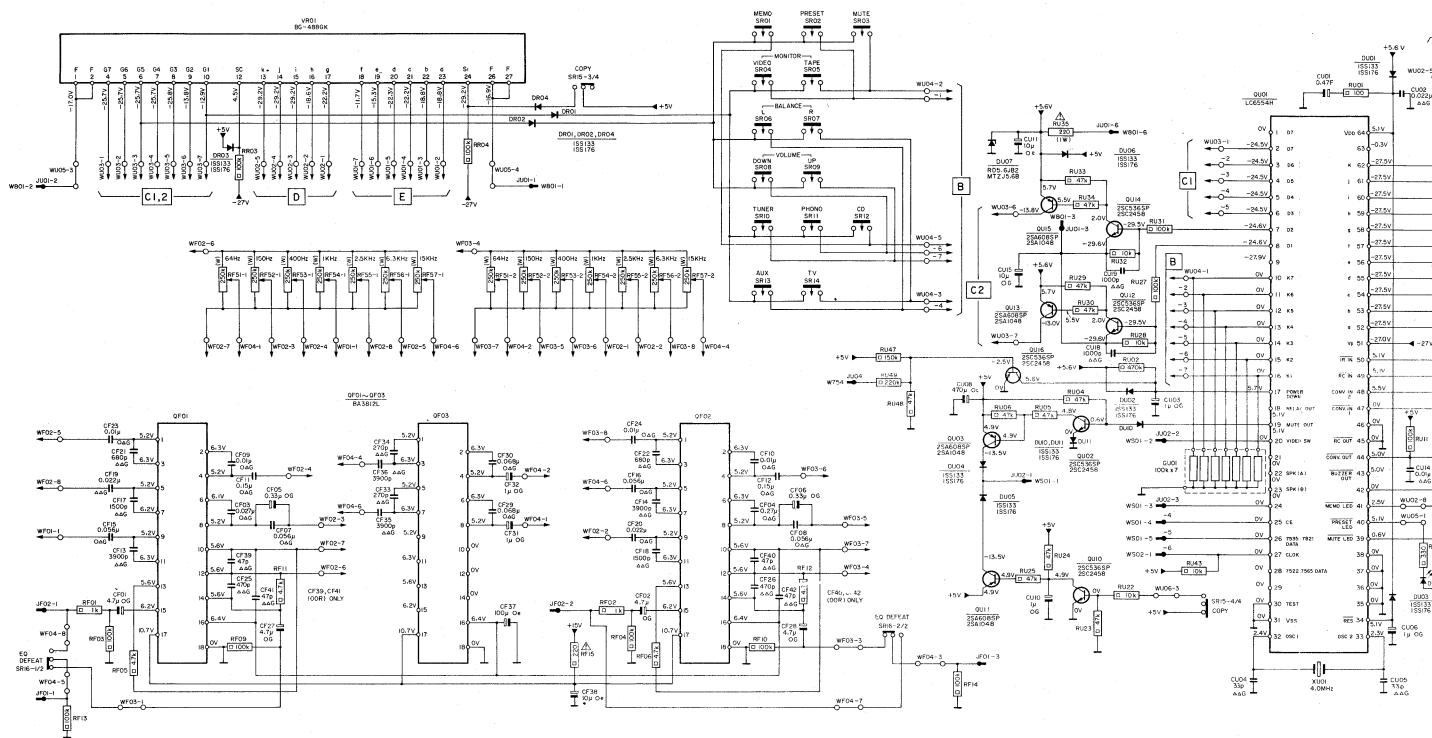


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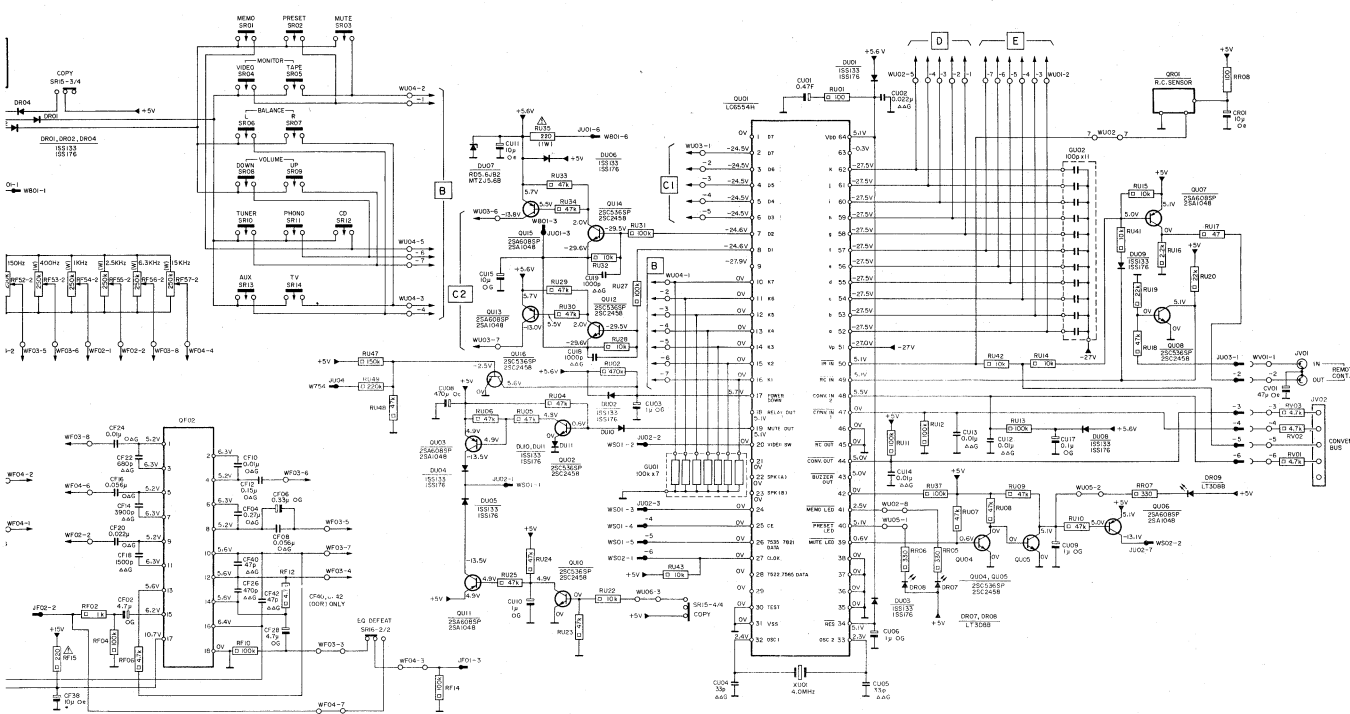
SCHEMATIC DIAGRAM

R	RF3	RF51~RF57										RU41~RU49								RU51~RU57			RU61													
	RF03~RF05	RF08	RF11	CF03~CF05	CF09	CF11	CF33~CF36	CF23~CF32	CF02	CF4	CF6	CF8	CF04	CF06	CF08	CF10	CF12	RF14	RU08	RU11	RU12~RU25	RU27~RU34	RU32	RU43	EXP			CU02								
C	CF19	CF21	CF23	CF25	CF27	CF39	CF41	CF28	CF20	CF22	CF24	CF26	CF28	CF40	CF42			CU08	CU11	CU10	CU13	CU03	CU04	CU05	CU06	CU07	CU09	CU10	CU12	CU13	CU14	CU15	CU16	CU17		
S-D				DF01	DF03	DF05	DF07	DF03	DF37	DF02	DF04	DF06	DF08	DF10	DF12	DF14	DF16	DF18	DF20	DF22	DF24	DF26	DF28	DF30	DF32	DF34	DF36	DF38	DF40	DF42	DF44	DF46	DF48	DF50		
S-V-X	SR6-1/2				VR0			GF03		DR02	DR04	DR06	SR5-3/4			GF02	SR0~SR14			SR6-2/2			SR7			SR8-4/4	SR9	SR10	SR11	SR12	SR13	SR14	SR15	SR16	SR17	SR18



SCHEMATIC DIAGRAM

RU17~RU19										RU24~RU26			RU30			RU37			RU42			RU41			RU15~RU20			RU08		RU2~RU3		R
RF10	RF12	RF14	RF16	RF18	RF19	RF22	RF25	RF27	RF28	RF29	RF43	CUB			CU2			CU7			CU9			CU17			C90			C		
CF38	CF20	CF22	CF4	CF10	CF14	CF16	CF18	CF42	CF10	CF12	CF13	CU5	CU10	CU8	CU3	CU4	CU10	CU6	CU8	CU2	CU4	CU9	CU17	CU9	CU10	CU1	CU1	C				
RO2	RO4	RO5H	RF12	RU17~RU19			RU24~RU26			RU30			RU37			RU42			RU41			RU15~RU20			RU08		RU2~RU3		S-B			
SR5~3/4										SR1~SR4			SR6~2/2			SR1~SR4			SR5~4/4			KX1			GU02			S-V-V				

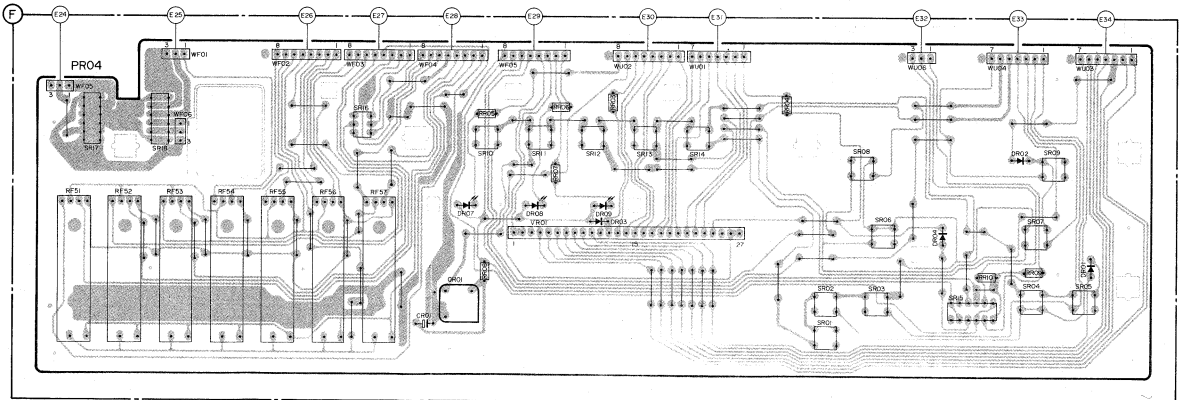
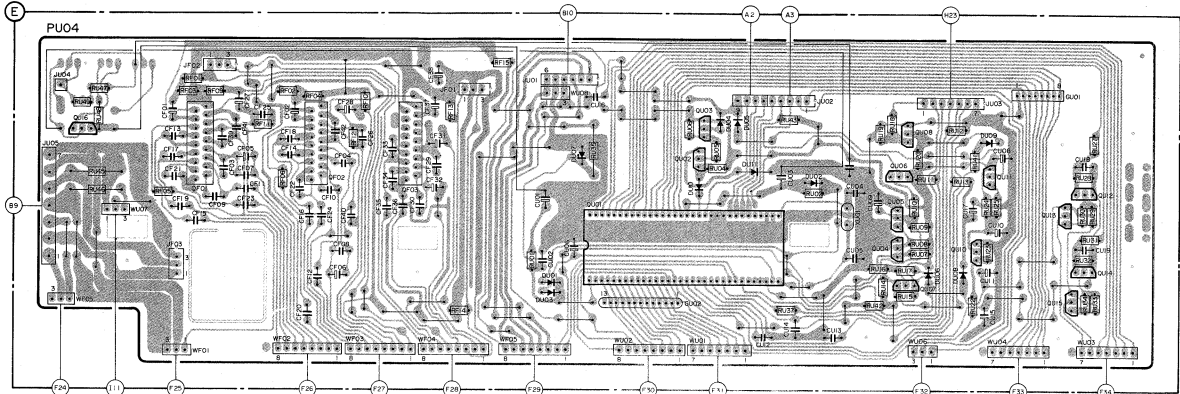


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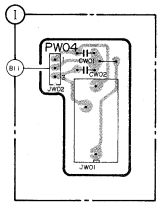
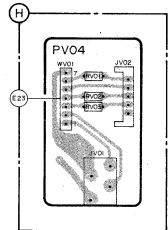
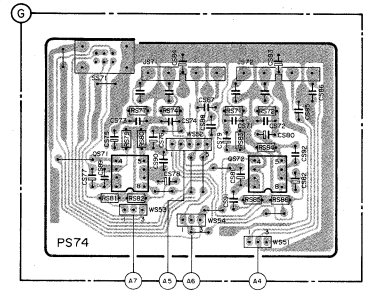
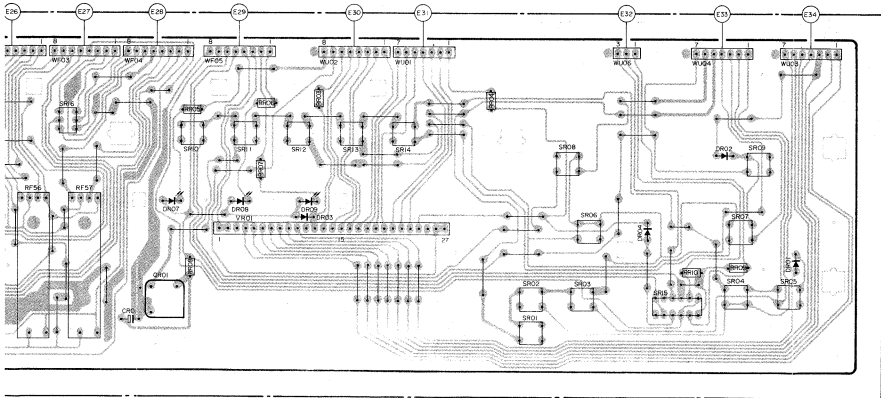
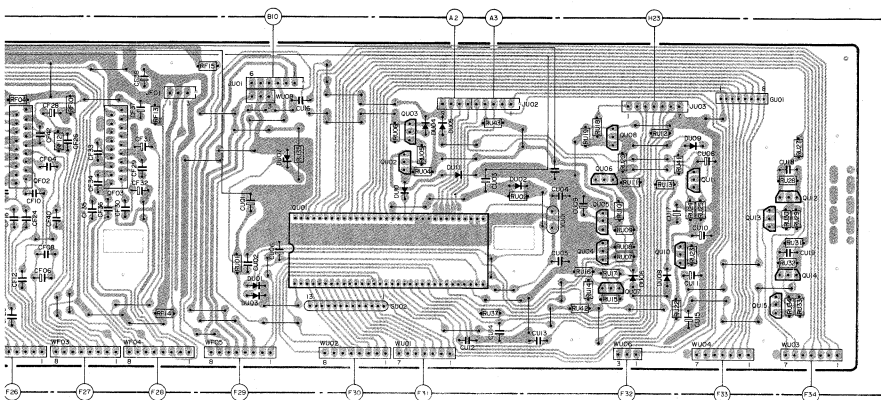
### WIRING DIAGRAM

R	RU45~RU49	RF05 RF03 RF01 RF09 RF11	RF02 RF04	RF12 RF10	RF13 RF14 RF15	RU01	RU35	RU04~RU06	RU43 RU37 RU02	RU42	RU07~RU20	RU41 RU22~RU25	RU27~RU34	
C	RF51~RF57	RF06	CF01~CF25	CF42 CF28	CF29~CF38	CU01	CU05 CU16	CU02	CU03~CU05	CU09	CU11 CU08 CU10	CU18	SR09	
D-S-X	SR17	SR18	CF39 CF27 CF41	CF40	CR01	CU02	CU03	CU04	CU12~CU14	CU17 CU15	CU19	CU25	SR01	
Q-Q-V	DU16	SR18	QF01	QF02	QF03	QR01	VR01	QU01	QU02 QU03 QU02	QU02	QU01	QU04~QU08	QU10~QU15	QU01



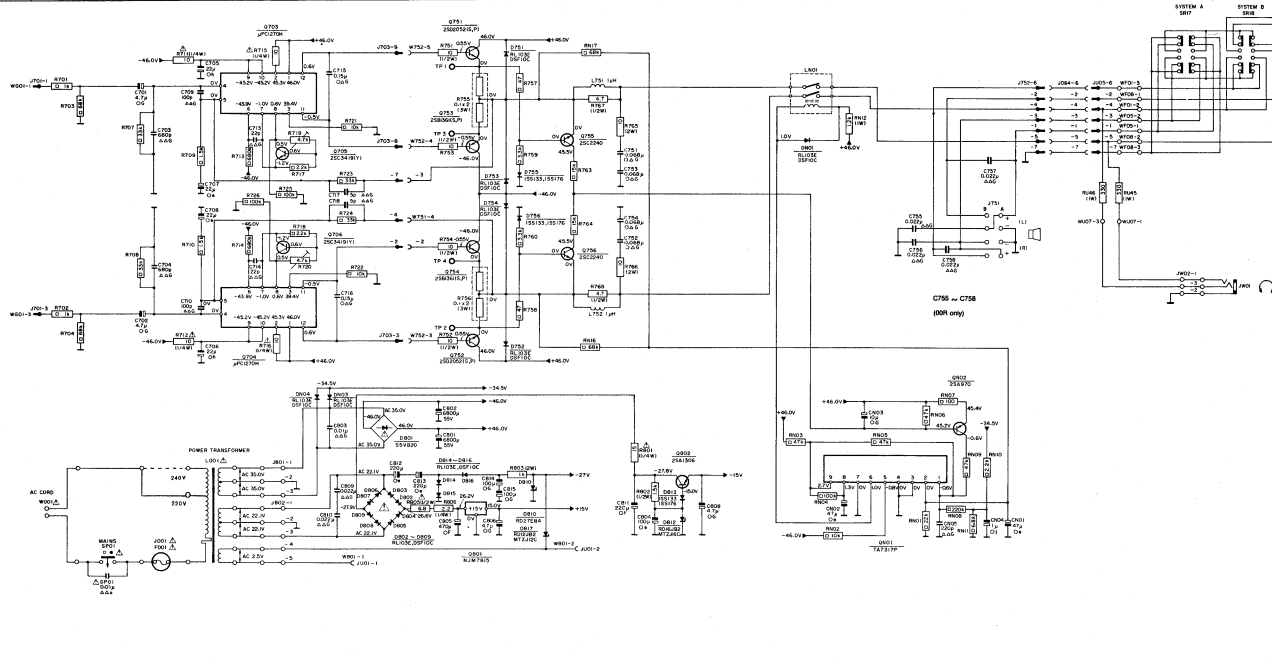
### WIRING DIAGRAM

2	RF04	RF12	RF10	MF13	MF14	RF15	RU01	RU35	RU04~RU06	RU43	RU37	RU02	RU42	RU07~RU20	RU41	RU22~RU25	RU27~RU34	RS79~RS82	RS71	RS72							
RF06				RR05~RR08			RR03		RR04			RR04			RR09			RV01~RV03	RS77	RS74	RS83~RS86						
CF42	CF28	CF29~CF38		CU01	CU06	CU16			CU03~CU05	CU09		CU11	CU08	CU10		CU18		CS73~CS78	CS90	CS84	CS87	CS88	CS71	CS72	CS92	CS85	CS86
CF40		CR01		DU02					DU12~DU14			DU17	DU15		DU18			CS99			CS79	CS91	CS80~	CS88	CW01	CW02	
GF02	GR6			DR07~DR09	DU03	DU03	DR03	SR03~SR14	DU10	DU04	DU05	DU11	DU02	DU10	DU06	DR04	DU08	DR09	SR15	DR02	SR01~SR05	DR01					
		GF03		DR01		VR01	GU01		GU02	GU03	GU02			GU04~GU08	GU10~GU15	GU01		SS71						SS71			GS72



SCHMATIC DIAGRAM

R	R701 ~ R704	R727 R707 R708 R709 ~ R712	R713 ~ R716	R723	R724	R761 ~ R754 R755 R756 R757 ~ R760	R817 R816	R824 ~ R818	R819 R820	R803 R804 R805	R806 R807 R808 R809	R810 R811	R812 R813 R814	R815	R816 R817	R	
C	C701 ~ C704	C705 ~ C710	C711 ~ C716	C717	C718	C801 C802 C811 C812 C813	C803 C804 C805 C806 C807 C808	C809 C810 C811 C812 C813 C814 C815 C816	C817 C818	C819 C820	C821 C822	C823 C824 C825 C826 C827 C828 C829 C830	C831 C832 C833 C834 C835 C836 C837 C838 C839 C840 C841 C842 C843 C844 C845 C846 C847 C848 C849 C850	C			
S - D	S701 S702	S703 S704 S705 S706 S707 S708 S709 S710 S711 S712 S713 S714 S715 S716 S717 S718 S719 S720 S721 S722 S723 S724 S725 S726 S727 S728 S729 S730 S731 S732 S733 S734 S735 S736 S737 S738 S739 S740 S741 S742 S743 S744 S745 S746 S747 S748 S749 S750 S751 S752 S753 S754 S755 S756 S757 S758 S759 S760 S761 S762 S763 S764 S765 S766 S767 S768 S769 S770 S771 S772 S773 S774 S775 S776 S777 S778 S779 S780 S781 S782 S783 S784 S785 S786 S787 S788 S789 S790 S791 S792 S793 S794 S795 S796 S797 S798 S799 S800 S801 S802 S803 S804 S805 S806 S807 S808 S809 S810 S811 S812 S813 S814 S815 S816 S817 S818 S819 S820 S821 S822 S823 S824 S825 S826 S827 S828 S829 S830 S831 S832 S833 S834 S835 S836 S837 S838 S839 S840 S841 S842 S843 S844 S845 S846 S847 S848 S849 S850 S851 S852 S853 S854 S855 S856 S857 S858 S859 S860 S861 S862 S863 S864 S865 S866 S867 S868 S869 S870 S871 S872 S873 S874 S875 S876 S877 S878 S879 S880 S881 S882 S883 S884 S885 S886 S887 S888 S889 S890 S891 S892 S893 S894 S895 S896 S897 S898 S899 S900 S901 S902 S903 S904 S905 S906 S907 S908 S909 S910 S911 S912 S913 S914 S915 S916 S917 S918 S919 S920 S921 S922 S923 S924 S925 S926 S927 S928 S929 S930 S931 S932 S933 S934 S935 S936 S937 S938 S939 S940 S941 S942 S943 S944 S945 S946 S947 S948 S949 S950 S951 S952 S953 S954 S955 S956 S957 S958 S959 S960 S961 S962 S963 S964 S965 S966 S967 S968 S969 S970 S971 S972 S973 S974 S975 S976 S977 S978 S979 S980 S981 S982 S983 S984 S985 S986 S987 S988 S989 S990 S991 S992 S993 S994 S995 S996 S997 S998 S999 S1000	S801 S802	S803 S804 S805	S806 S807 S808 S809 S810 S811 S812 S813 S814 S815 S816 S817 S818 S819 S820 S821 S822 S823 S824 S825 S826 S827 S828 S829 S830 S831 S832 S833 S834 S835 S836 S837 S838 S839 S840 S841 S842 S843 S844 S845 S846 S847 S848 S849 S850 S851 S852 S853 S854 S855 S856 S857 S858 S859 S860 S861 S862 S863 S864 S865 S866 S867 S868 S869 S870 S871 S872 S873 S874 S875 S876 S877 S878 S879 S880 S881 S882 S883 S884 S885 S886 S887 S888 S889 S890 S891 S892 S893 S894 S895 S896 S897 S898 S899 S900	S801 S802	S803 S804 S805	S806 S807 S808 S809 S810 S811 S812 S813 S814 S815 S816 S817 S818 S819 S820 S821 S822 S823 S824 S825 S826 S827 S828 S829 S830 S831 S832 S833 S834 S835 S836 S837 S838 S839 S840 S841 S842 S843 S844 S845 S846 S847 S848 S849 S850 S851 S852 S853 S854 S855 S856 S857 S858 S859 S860 S861 S862 S863 S864 S865 S866 S867 S868 S869 S870 S871 S872 S873 S874 S875 S876 S877 S878 S879 S880 S881 S882 S883 S884 S885 S886 S887 S888 S889 S890 S891 S892 S893 S894 S895 S896 S897 S898 S899 S900	S								
S - L - S - F	S401 S402	F001	L001													S501 S502 S503 S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521 S522 S523 S524 S525 S526 S527 S528 S529 S530 S531 S532 S533 S534 S535 S536 S537 S538 S539 S540 S541 S542 S543 S544 S545 S546 S547 S548 S549 S550 S551 S552 S553 S554 S555 S556 S557 S558 S559 S560 S561 S562 S563 S564 S565 S566 S567 S568 S569 S570 S571 S572 S573 S574 S575 S576 S577 S578 S579 S580 S581 S582 S583 S584 S585 S586 S587 S588 S589 S590 S591 S592 S593 S594 S595 S596 S597 S598 S599 S600 S601 S602 S603 S604 S605 S606 S607 S608 S609 S610 S611 S612 S613 S614 S615 S616 S617 S618 S619 S620 S621 S622 S623 S624 S625 S626 S627 S628 S629 S630 S631 S632 S633 S634 S635 S636 S637 S638 S639 S640 S641 S642 S643 S644 S645 S646 S647 S648 S649 S650 S651 S652 S653 S654 S655 S656 S657 S658 S659 S660 S661 S662 S663 S664 S665 S666 S667 S668 S669 S670 S671 S672 S673 S674 S675 S676 S677 S678 S679 S680 S681 S682 S683 S684 S685 S686 S687 S688 S689 S690 S691 S692 S693 S694 S695 S696 S697 S698 S699 S700 S701 S702 S703 S704 S705 S706 S707 S708 S709 S710 S711 S712 S713 S714 S715 S716 S717 S718 S719 S720 S721 S722 S723 S724 S725 S726 S727 S728 S729 S730 S731 S732 S733 S734 S735 S736 S737 S738 S739 S740 S741 S742 S743 S744 S745 S746 S747 S748 S749 S750 S751 S752 S753 S754 S755 S756 S757 S758 S759 S760 S761 S762 S763 S764 S765 S766 S767 S768 S769 S770 S771 S772 S773 S774 S775 S776 S777 S778 S779 S780 S781 S782 S783 S784 S785 S786 S787 S788 S789 S790 S791 S792 S793 S794 S795 S796 S797 S798 S799 S800 S801 S802 S803 S804 S805 S806 S807 S808 S809 S810 S811 S812 S813 S814 S815 S816 S817 S818 S819 S820 S821 S822 S823 S824 S825 S826 S827 S828 S829 S830 S831 S832 S833 S834 S835 S836 S837 S838 S839 S840 S841 S842 S843 S844 S845 S846 S847 S848 S849 S850 S851 S852 S853 S854 S855 S856 S857 S858 S859 S860 S861 S862 S863 S864 S865 S866 S867 S868 S869 S870 S871 S872 S873 S874 S875 S876 S877 S878 S879 S880 S881 S882 S883 S884 S885 S886 S887 S888 S889 S890 S891 S892 S893 S894 S895 S896 S897 S898 S899 S900	S



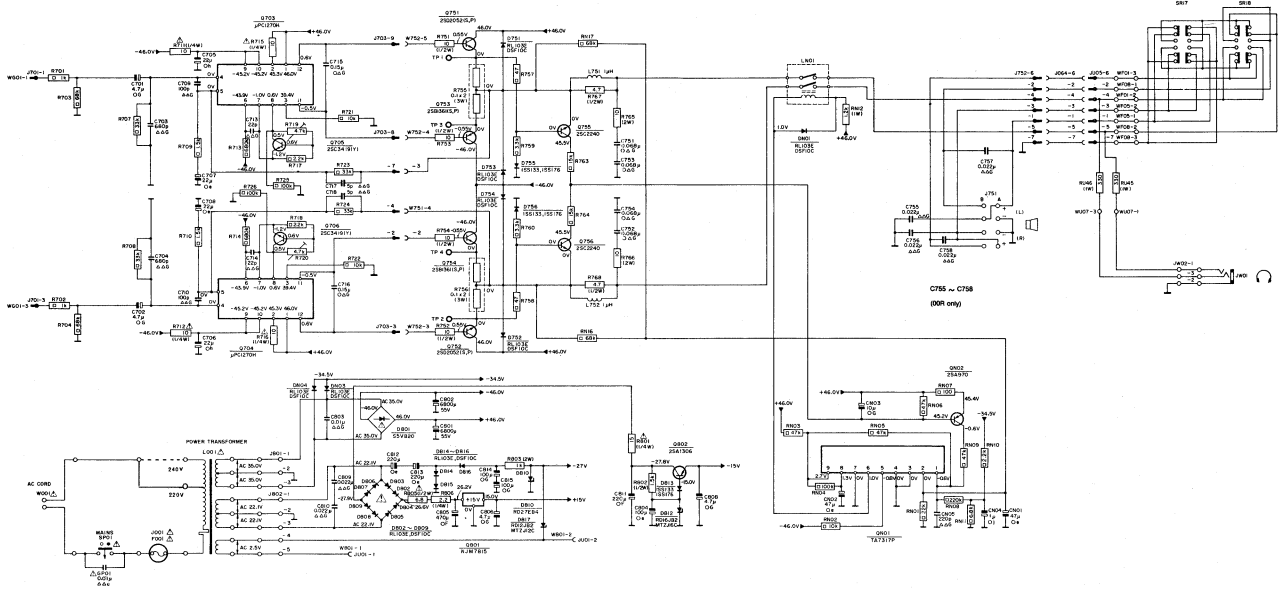
NOTE ON SAFETY:  
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TA73

μPC12

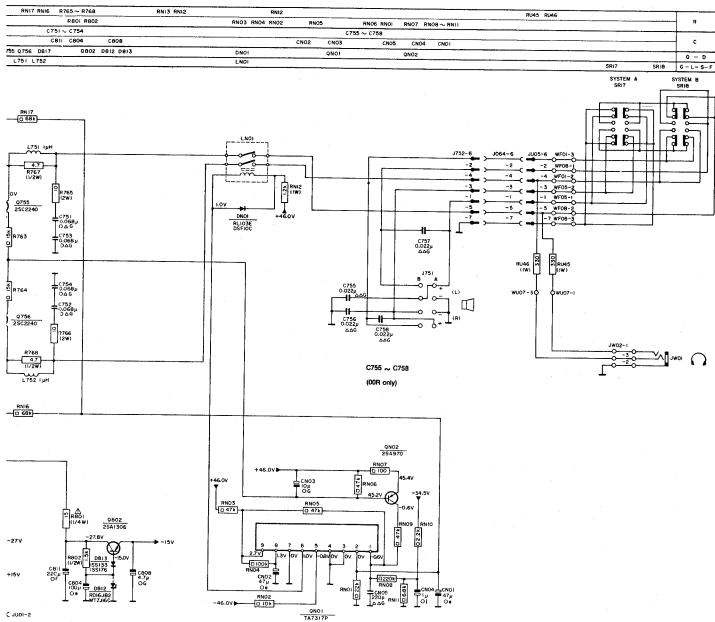
SCHEMATIC DIAGRAM

R	R701 ~ R704	R727 R728 R709 ~ R712	R713 ~ R720	R721 ~ R724	R725 ~ R726	R727 ~ R730	R731 ~ R732	R733 ~ R736	R737 ~ R740	R741 ~ R742	R743 ~ R746	R747 ~ R750	R751 ~ R752	R753 ~ R756	R757 ~ R760	R761 ~ R762	R763 ~ R766	R767 ~ R770	R771 ~ R774	R775 ~ R778	R779 ~ R782	R783 ~ R786	R787 ~ R790	R791 ~ R794	R795 ~ R798	R799 ~ R802	R803 ~ R806	R807 ~ R810	R811 ~ R814	R815 ~ R818	R819 ~ R822	R823 ~ R826	R827 ~ R830	R831 ~ R834	R835 ~ R838	R839 ~ R842	R843 ~ R846	R847 ~ R850	R851 ~ R854	R855 ~ R858	R859 ~ R862	R863 ~ R866	R867 ~ R870	R871 ~ R874	R875 ~ R878	R879 ~ R882	R883 ~ R886	R887 ~ R890	R891 ~ R894	R895 ~ R898	R899 ~ R902	R903 ~ R906	R907 ~ R910	R911 ~ R914	R915 ~ R918	R919 ~ R922	R923 ~ R926	R927 ~ R930	R931 ~ R934	R935 ~ R938	R939 ~ R942	R943 ~ R946	R947 ~ R950	R951 ~ R954	R955 ~ R958	R959 ~ R962	R963 ~ R966	R967 ~ R970	R971 ~ R974	R975 ~ R978	R979 ~ R982	R983 ~ R986	R987 ~ R990	R991 ~ R994	R995 ~ R998	R999 ~ R1000																										
C	C701 ~ C704	C705 ~ C708	C709 ~ C712	C713 ~ C714	C715 ~ C718	C719 ~ C722	C723 ~ C726	C727 ~ C730	C731 ~ C734	C735 ~ C738	C739 ~ C742	C743 ~ C746	C747 ~ C750	C751 ~ C754	C755 ~ C758	C759 ~ C762	C763 ~ C766	C767 ~ C770	C771 ~ C774	C775 ~ C778	C779 ~ C782	C783 ~ C786	C787 ~ C790	C791 ~ C794	C795 ~ C798	C799 ~ C802	C803 ~ C806	C807 ~ C810	C811 ~ C814	C815 ~ C818	C819 ~ C822	C823 ~ C826	C827 ~ C830	C831 ~ C834	C835 ~ C838	C839 ~ C842	C843 ~ C846	C847 ~ C850	C851 ~ C854	C855 ~ C858	C859 ~ C862	C863 ~ C866	C867 ~ C870	C871 ~ C874	C875 ~ C878	C879 ~ C882	C883 ~ C886	C887 ~ C890	C891 ~ C894	C895 ~ C898	C899 ~ C902	C903 ~ C906	C907 ~ C910	C911 ~ C914	C915 ~ C918	C919 ~ C922	C923 ~ C926	C927 ~ C930	C931 ~ C934	C935 ~ C938	C939 ~ C942	C943 ~ C946	C947 ~ C950	C951 ~ C954	C955 ~ C958	C959 ~ C962	C963 ~ C966	C967 ~ C970	C971 ~ C974	C975 ~ C978	C979 ~ C982	C983 ~ C986	C987 ~ C990	C991 ~ C994	C995 ~ C998	C999 ~ C1000																										
D	D1 ~ D4	D5 ~ D8	D9 ~ D12	D13 ~ D16	D17 ~ D20	D21 ~ D24	D25 ~ D28	D29 ~ D32	D33 ~ D36	D37 ~ D40	D41 ~ D44	D45 ~ D48	D49 ~ D52	D53 ~ D56	D57 ~ D60	D61 ~ D64	D65 ~ D68	D69 ~ D72	D73 ~ D76	D77 ~ D80	D81 ~ D84	D85 ~ D88	D89 ~ D92	D93 ~ D96	D97 ~ D100	D101 ~ D104	D105 ~ D108	D109 ~ D112	D113 ~ D116	D117 ~ D120	D121 ~ D124	D125 ~ D128	D129 ~ D132	D133 ~ D136	D137 ~ D140	D141 ~ D144	D145 ~ D148	D149 ~ D152	D153 ~ D156	D157 ~ D160	D161 ~ D164	D165 ~ D168	D169 ~ D172	D173 ~ D176	D177 ~ D180	D181 ~ D184	D185 ~ D188	D189 ~ D192	D193 ~ D196	D197 ~ D200	D201 ~ D204	D205 ~ D208	D209 ~ D212	D213 ~ D216	D217 ~ D220	D221 ~ D224	D225 ~ D228	D229 ~ D232	D233 ~ D236	D237 ~ D240	D241 ~ D244	D245 ~ D248	D249 ~ D252	D253 ~ D256	D257 ~ D260	D261 ~ D264	D265 ~ D268	D269 ~ D272	D273 ~ D276	D277 ~ D280	D281 ~ D284	D285 ~ D288	D289 ~ D292	D293 ~ D296	D297 ~ D300	D301 ~ D304	D305 ~ D308	D309 ~ D312	D313 ~ D316	D317 ~ D320	D321 ~ D324	D325 ~ D328	D329 ~ D332	D333 ~ D336	D337 ~ D340	D341 ~ D344	D345 ~ D348	D349 ~ D352	D353 ~ D356	D357 ~ D360	D361 ~ D364	D365 ~ D368	D369 ~ D372	D373 ~ D376	D377 ~ D380	D381 ~ D384	D385 ~ D388	D389 ~ D392	D393 ~ D396	D397 ~ D400		
S-L-S-F	SPOT SPOT	F001	L001	L002	L003	L004	L005	L006	L007	L008	L009	L010	L011	L012	L013	L014	L015	L016	L017	L018	L019	L020	L021	L022	L023	L024	L025	L026	L027	L028	L029	L030	L031	L032	L033	L034	L035	L036	L037	L038	L039	L040	L041	L042	L043	L044	L045	L046	L047	L048	L049	L050	L051	L052	L053	L054	L055	L056	L057	L058	L059	L060	L061	L062	L063	L064	L065	L066	L067	L068	L069	L070	L071	L072	L073	L074	L075	L076	L077	L078	L079	L080	L081	L082	L083	L084	L085	L086	L087	L088	L089	L090	L091	L092	L093	L094	L095	L096	L097	L098	L099	L100

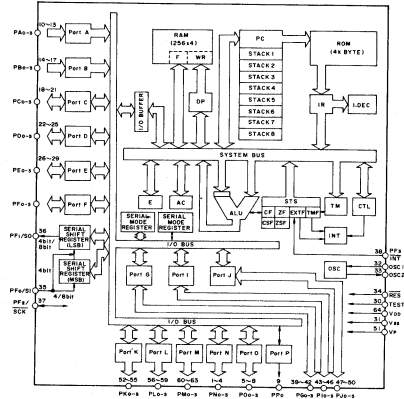


NOTE ON SAFETY:  
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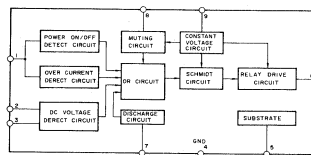
SCHEMATIC DIAGRAM



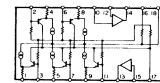
LC6554H



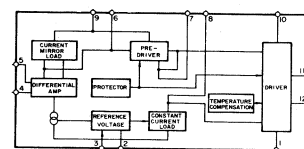
TA7317P



BA3812L



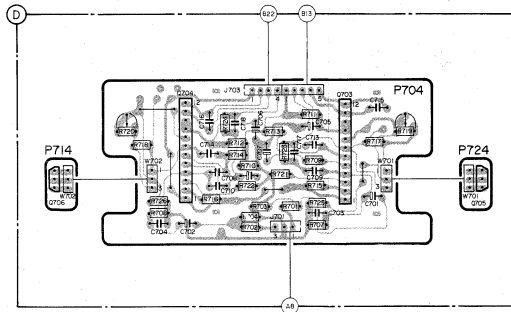
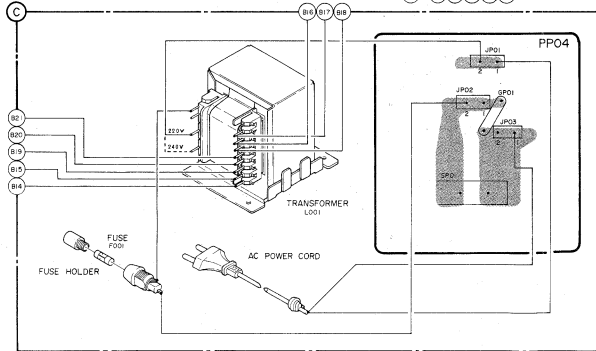
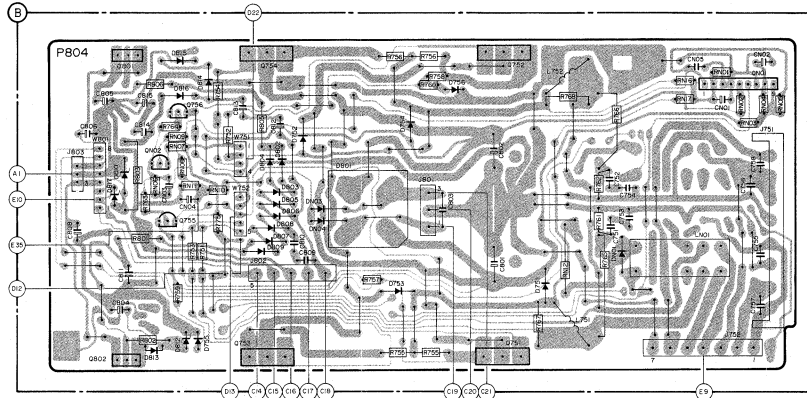
μPC1270H



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

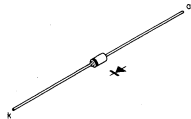
WIRING DIAGRAM

R	R801~R803 R806~R811 R775	R805	R755~R758 R760	R767 R768 Rv2	R765 R766 Rv6 Rv7	R801 R802 R713 R723 R75R717
C	C808 C804~C806 C85 C84	C85 C84	C813	C810 C809	C801~C803	C791~C794 C791
D-S	D817 D810	D812 D815 D816 D755	D801~D809 D752 SPO1 Dv03 Dv04	D754 D753	D756	D751
B-L-G	B801 B802	Bv02 B755 B756	B754 B753	BPv01		B752 B751 B706 L 752 L751 B704 B708
						Lv01 Dv01 Q703 Q707
						Q705

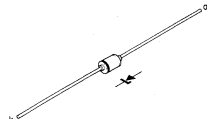


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Semiconductor Layout

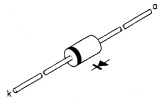


1SS133  
1SS176  
MA165



RD5.1JB2/MTZJ5.1B  
RD5.6JB2/MTZJ5.6B

RD12JB2/MTZJ12C  
RD16JB2/MTZJ16C  
RD27EB4



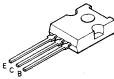
DSF10C  
RL103E



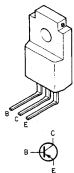
LT3D8B



2SC2240



2SC3419



2SA1308



2SC2878



BA3812L

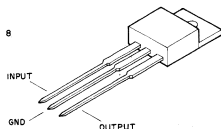


TA7317P



NJM458D-D

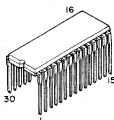
2SA608SP 2SC536SP  
2SA933S 2SC1740S  
2SA1048 2SC2458  
2SA1309A 2SC3311A



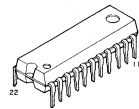
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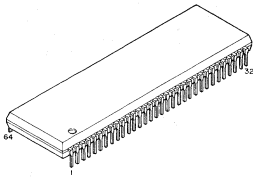
LC4966



LC7821



LC7535



LC6554H

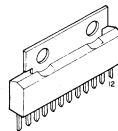
-22-



2SA970



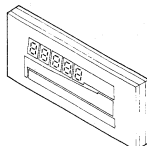
S5VB20



μPC1270H



Z8B1361  
ZSD2052



BG-488GK

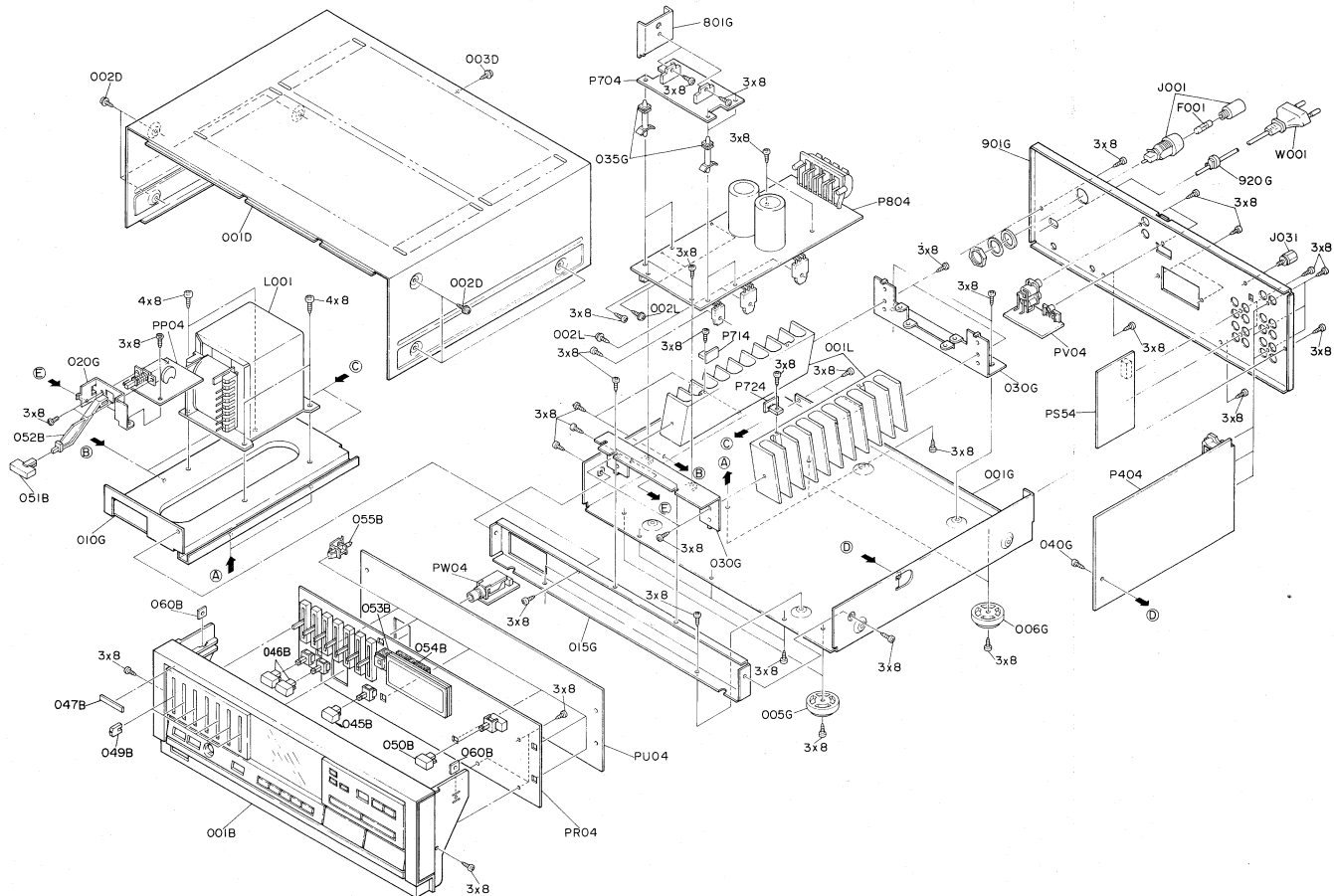
List of mechanical parts

F001	4822 253 30022
J001	4822 256 30233
J031	4822 290 40297
L001	4822 148 60184
001B	4822 444 40219
045B	4822 410 26159
046B	4822 410 26322
049B	4822 410 26158
050B	4822 410 26161
051B	4822 410 26157
052B	4822 402 61144
053B	4822 466 61642
054B	4822 466 61643
055B	4822 402 61143
060B	4822 505 10806
005G	4822 462 41198
006G	4822 462 41186
920G	4822 532 51314

Remark: Only the parts provided with a service code number are available as service spare parts

Remote transmitter RC771/00R	4822 218 20742
Remote transmitter RC772/00R	4822 218 20743

EXPLODED VIEW





## LIST OF ELECTRICAL PARTS

CU01	Super cap 0.47F	4822 124 22481	BA3812L	4822 209 83338
GP01	Cap. cer. 0.01 $\mu$ F 400 V	4822 122 40305	LC4966	4822 209 83804
GU02	Cap. comp. 100 pF (5x)	4822 121 51191	LC6554H	4822 209 72352
C801,C802	Electr. cap. 6800 $\mu$ F 55 V	4822 124 21981	LC7535VR	4822 209 71784
C803	Cap. cer. 0.01 $\mu$ F 500 V	4822 122 30043	LC7821	4822 209 72357
			NJM4558D-D	4822 209 83631
			NJM7815	4822 209 83317
			TA7317P	4822 209 83312
			UPC-1270H	4822 209 83779
GU01	Res. comp. 100k (7x)	4822 111 91398		
GU03	Res. comp. 100k (5x)	4822 111 91396		
RF51-RF57	Potm. 250k	4822 105 10728		
RN12	Res. safety 1.2k 1 W	4822 116 60335		
RU35	Res. safety 220 $\Omega$ 1 W	4822 116 60246		
RU45,RU46	Res. safety 330 $\Omega$ 1 W	4822 111 50474		
R415,R416	Res. safety 220 $\Omega$ 1/2 W	4822 111 90727		
R711,R712 } R715,R716 }	Res. fuse 10 $\Omega$ 1/4 W	4822 115 90166		
R719,R720	Potm 4.7 k	4822 100 20524		
R751,R752 } R753,R754 }	Res. safety 10 $\Omega$ 1/2 W	4822 116 52332		
H755,R756	Res. comp. 0.1 $\Omega$ (23x)	4822 111 91402		
R765,R766	Res. safety 10 $\Omega$ 2 W	4822 111 90726		
R767,R768	Res. safety 4.7 $\Omega$ 1/2 W	4822 116 52858		
R771,R772	Res. safety 330 $\Omega$ 2 W	4822 116 60262		
R801	Res. fuse 15 $\Omega$ 1/4 W	4822 116 60417		
R802	Res. safety 1.5 k 1/2 W	4822 111 50479		
R803	Res. safety 1k 2 W	4822 116 60332		
R805	Res. fuse 6.8 $\Omega$ 1/2 W	4822 111 20384		
R806	Res. safety 2.2 $\Omega$ 1/4 W	4822 116 52348		
2SA608SP, 2SA1048 } 2SA1309,A }		4822 130 42715		
2SA970 (GR)		4822 130 42949		
2SA1306 O.Y		4822 130 43023		
2SB1361 (S.P.)		4822 130 60852		
2SC536SP, 2SC2458 } 2SC3311,C }		4822 130 42483		
2SC2240 GR		4822 130 43231		
2SC2878 A		4822 130 43818		
2SC3419Y		4822 130 60117		
2SD2052 (S.P)		4822 130 60853		
			LT3D8B red	
			RD5.1JB2,MTZJ5.1B	
			RD5.6JB2,MTZJ5.6B	
			RD12JB2,MTZJ12C	
			RD16JB2,MTZJ16C	
			RD27EB4	
			RL103E,DSF10C	
			S5VB20	
			1SS133,1SS176	
			1S2070,1S2473	
			4822 130 80326	
			4822 130 80317	
			4822 130 33948	
			4822 130 80091	
			4822 130 80498	
			4822 130 32757	
			4822 130 32508	
			4822 130 30984	
			4822 130 33305	
			4822 130 31018	
			<b>-Miscellaneous-</b>	
			F001	Fuse 1.25A 250 V
			JS01,JS02 } JS71,JS72 }	Jack 4p
			JV01	Jack 2p
			JV02	Jack 5p
			JW01	Headphone jack
			J001	Fuse holder
			J031	Ground terminal
			J401	Socket 2p
			J701	Plug 3p
			J751	Speaker terminal
			LN01	Relay DH24D2
			L001	Mains transformer
			L751,L752	Choke coil 1 $\mu$ H
			QR01	IR sensor for RC5
			SF51	Push switch
			SP01	Push switch
			SR01+SR14	Push switch
			SR15	Push switch
			SR17,SR18	Push switch
			SS71	Switch slide (stereo)
			VR01	Display BG-488GK
			XU01	Cer. filter 4 MHz
				4822 253 30022
				4822 265 30397
				4822 266 30274
				4822 267 40768
				4822 267 30596
				4822 256 30233
				4822 290 40297
				4822 267 30741
				4822 265 10078
				4822 290 60686
				4822 280 60508
				4822 148 60184
				4822 157 51739
				4822 130 10009
				4822 276 12304
				4822 276 11798
				4822 276 11559
				4822 276 12305
				4822 276 12359
				4822 277 21176
				4822 130 90482
				4822 242 71839