

1-M1

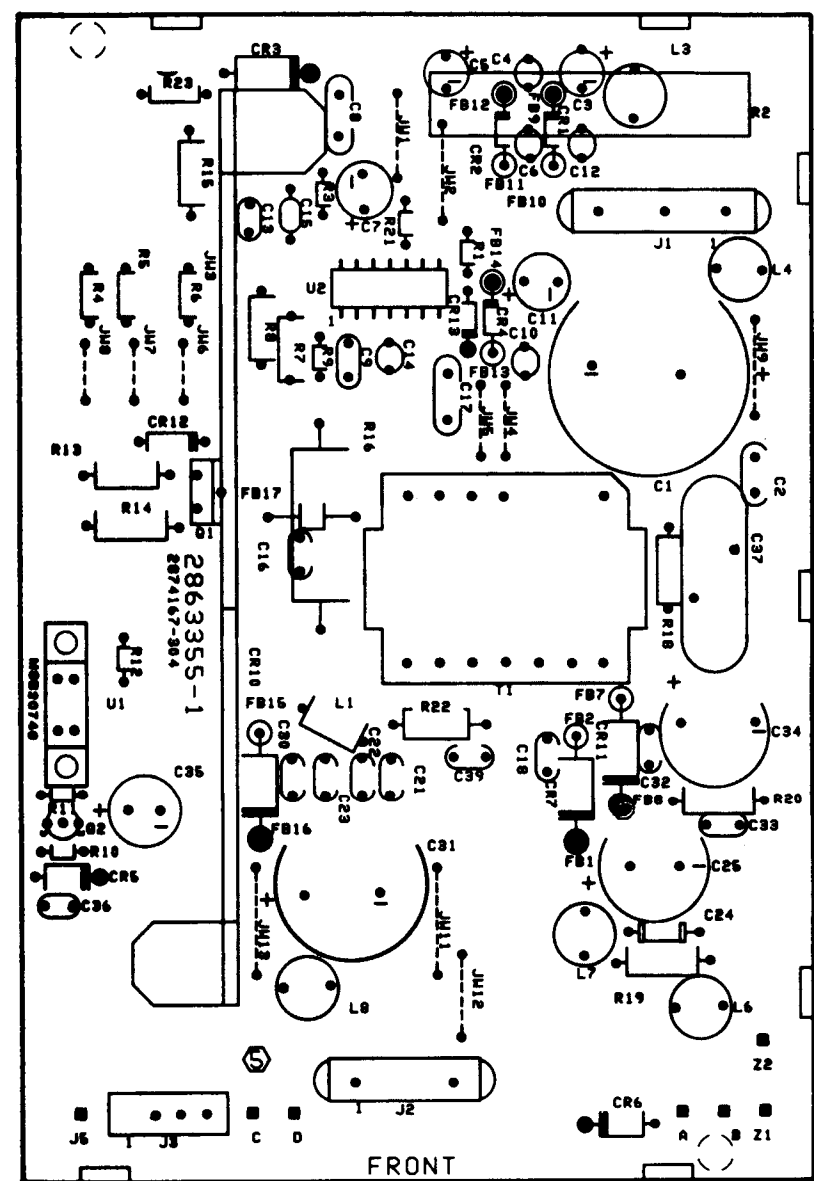
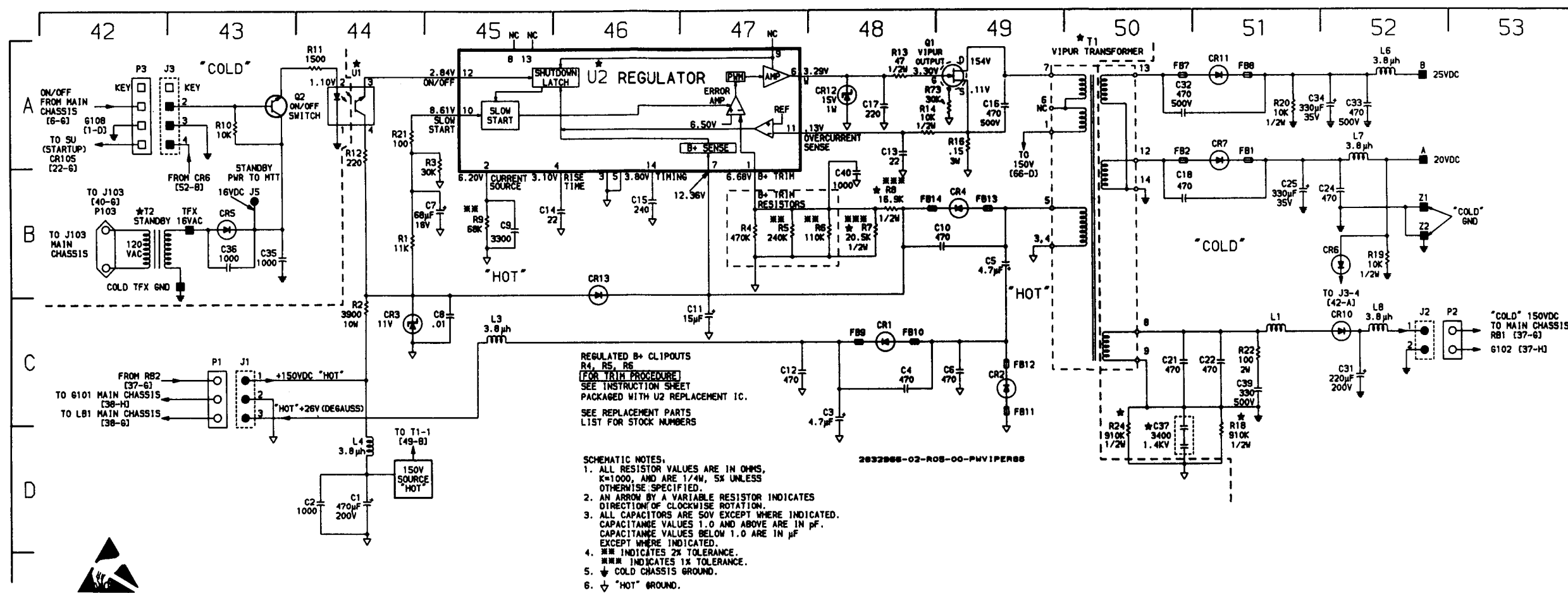
1-M2

1-M3

1-M4

VARIABLE SWITCHING POWER SUPPLY (PW VIPUR) SCHEMATIC

VARIABLE SWITCHING POWER SUPPLY (PW VIPUR) CIRCUIT BOARD



1-M1

1-M2

1-M3

1-M4

1-M5

1-M6

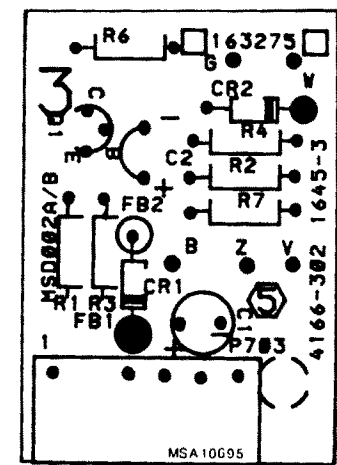
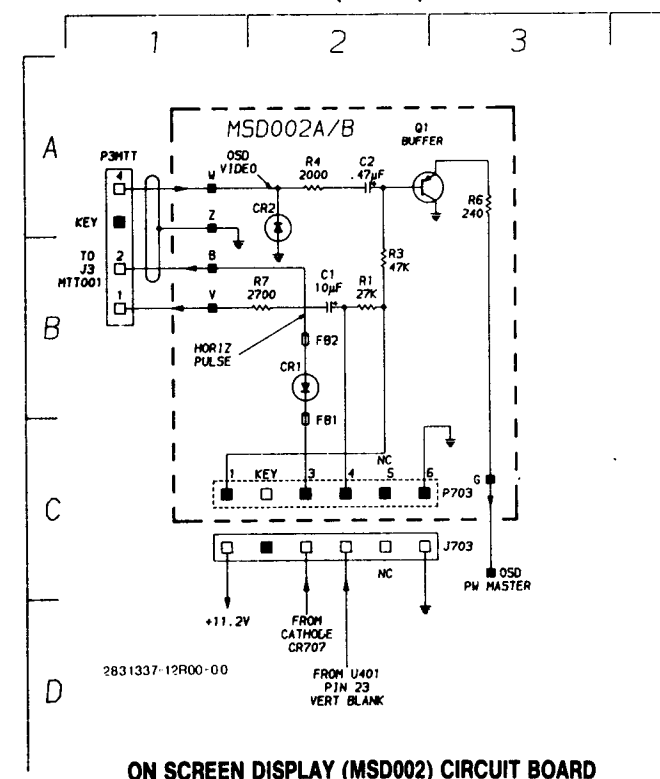
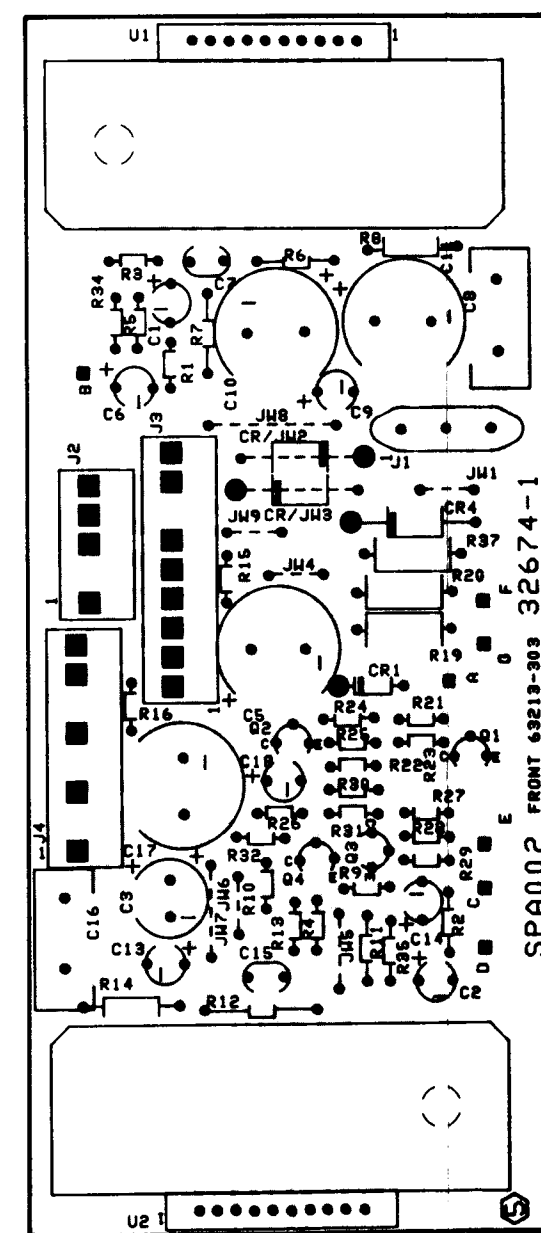
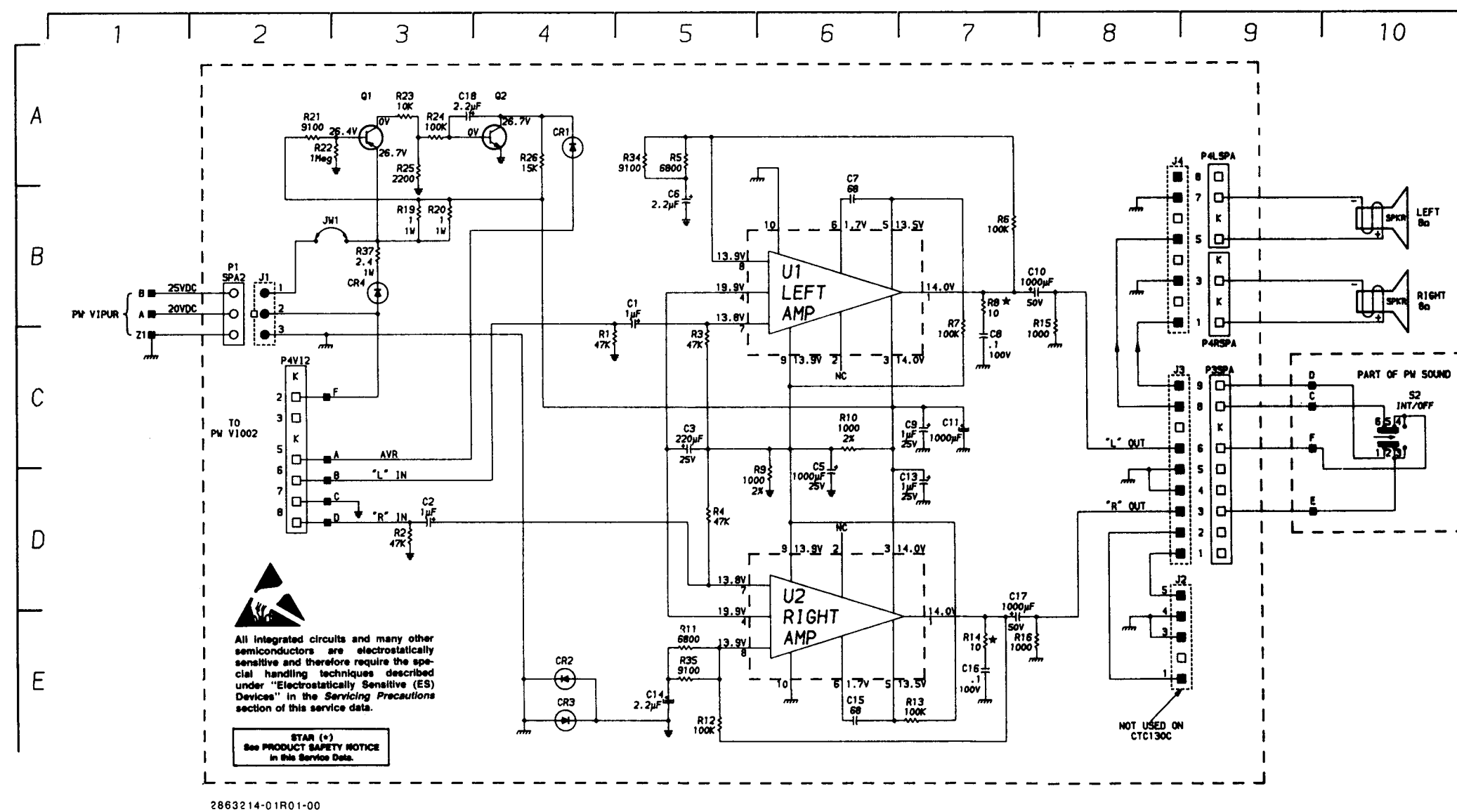
1-M7

1-M8

STEREO POWER AMP (PW SPA) SCHEMATIC

STEREO POWER AMP (PW SPA) CIRCUIT BOARD

ON SCREEN DISPLAY (MSD002) SCHEMATIC

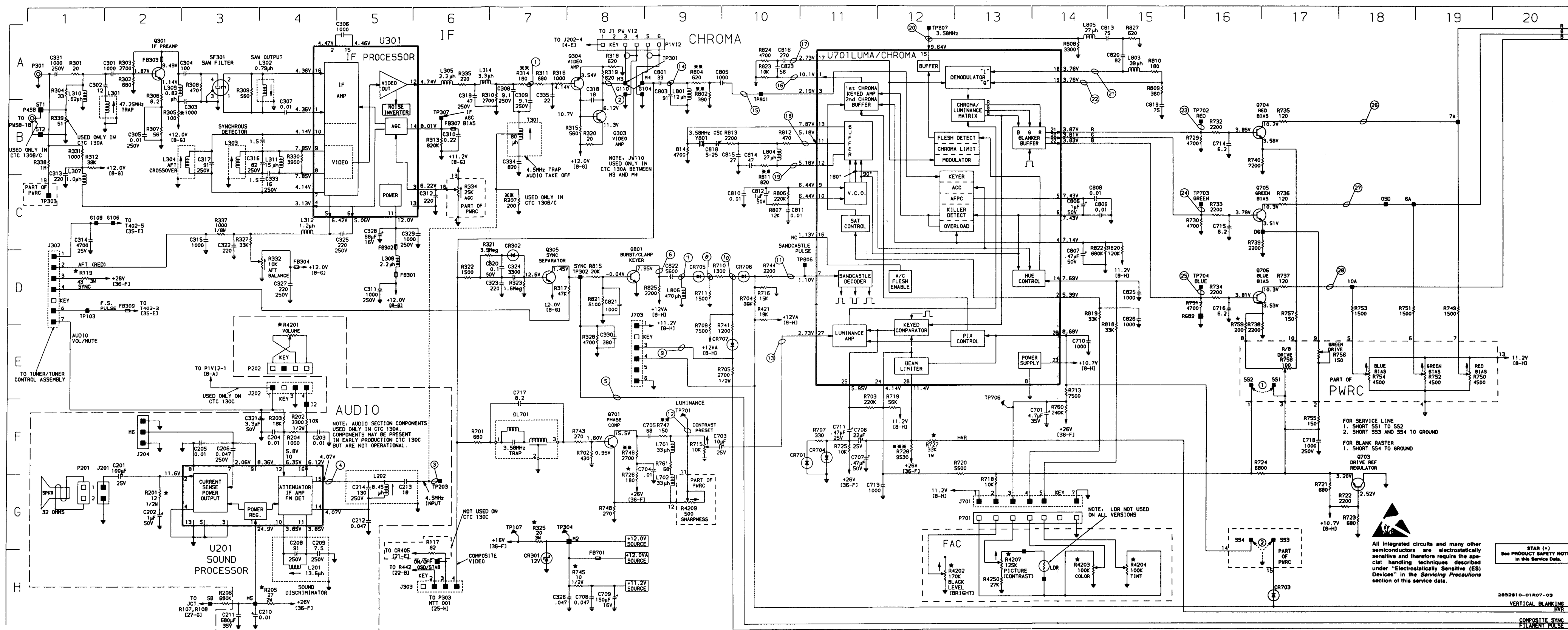


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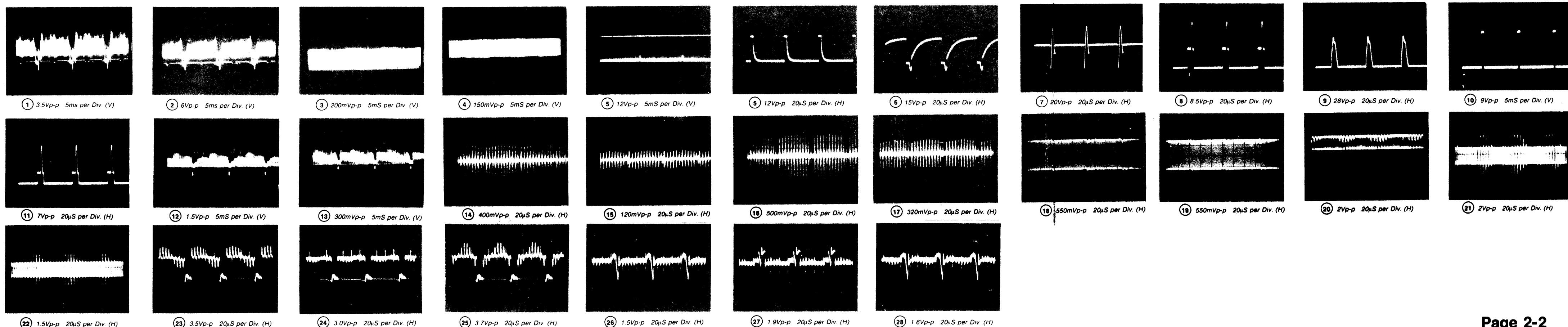
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1-M7

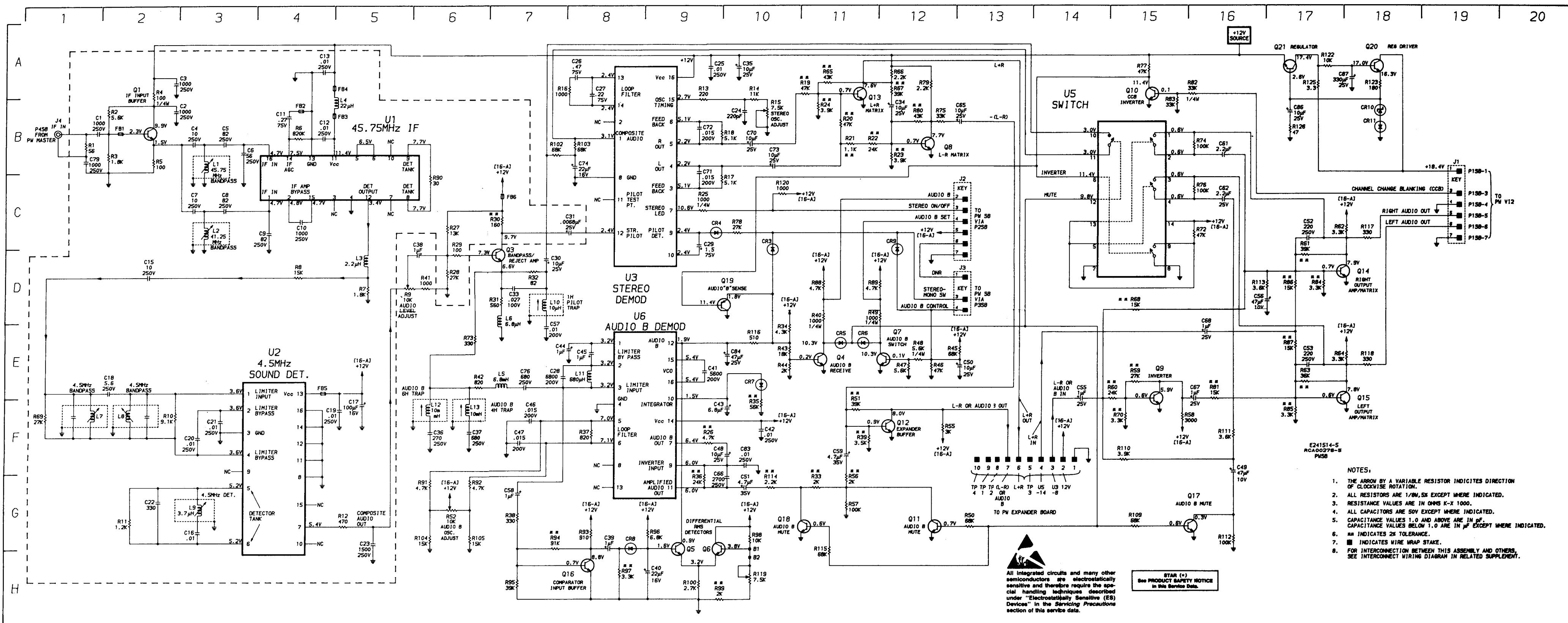
1-M8



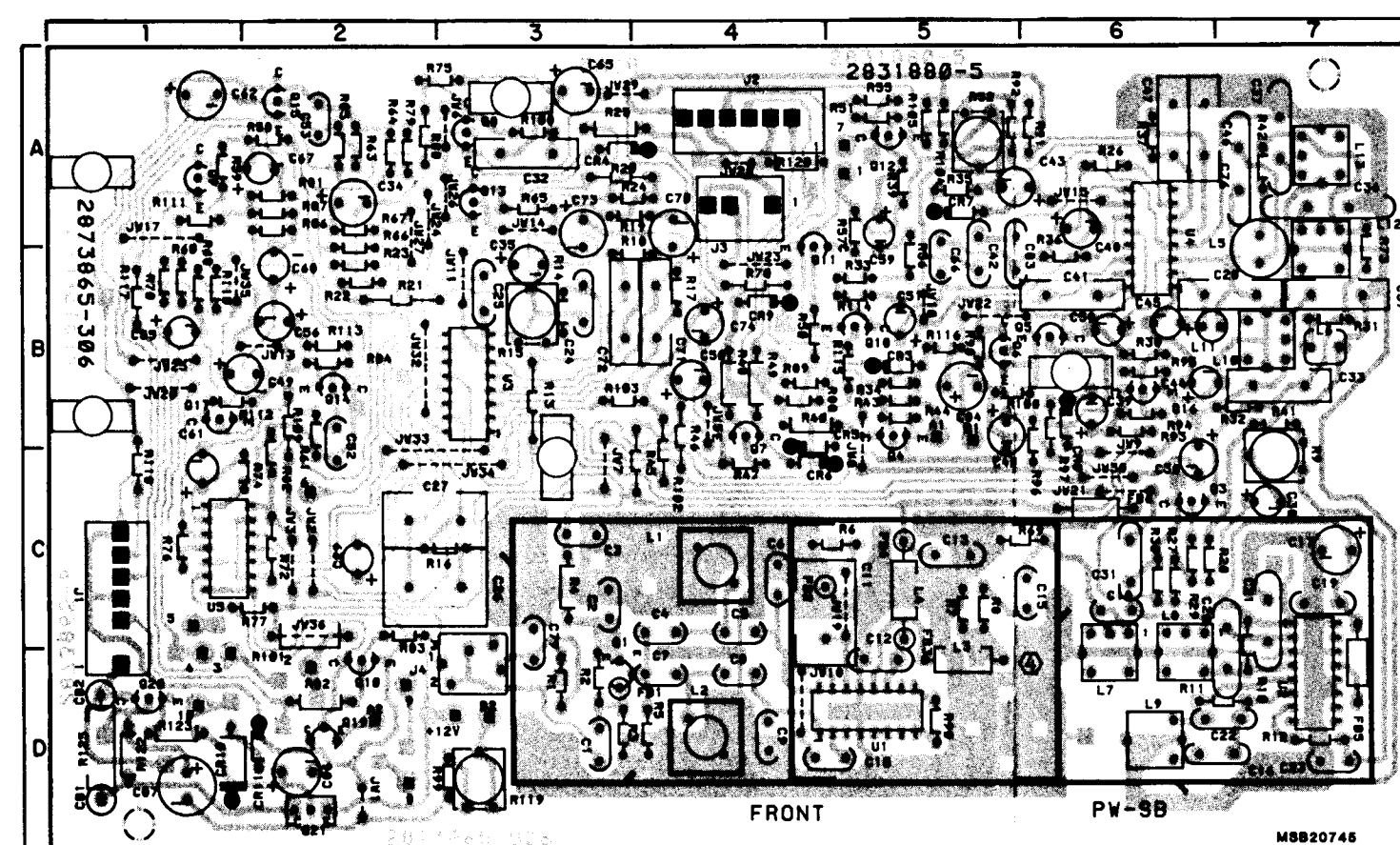
WAVEFORMS



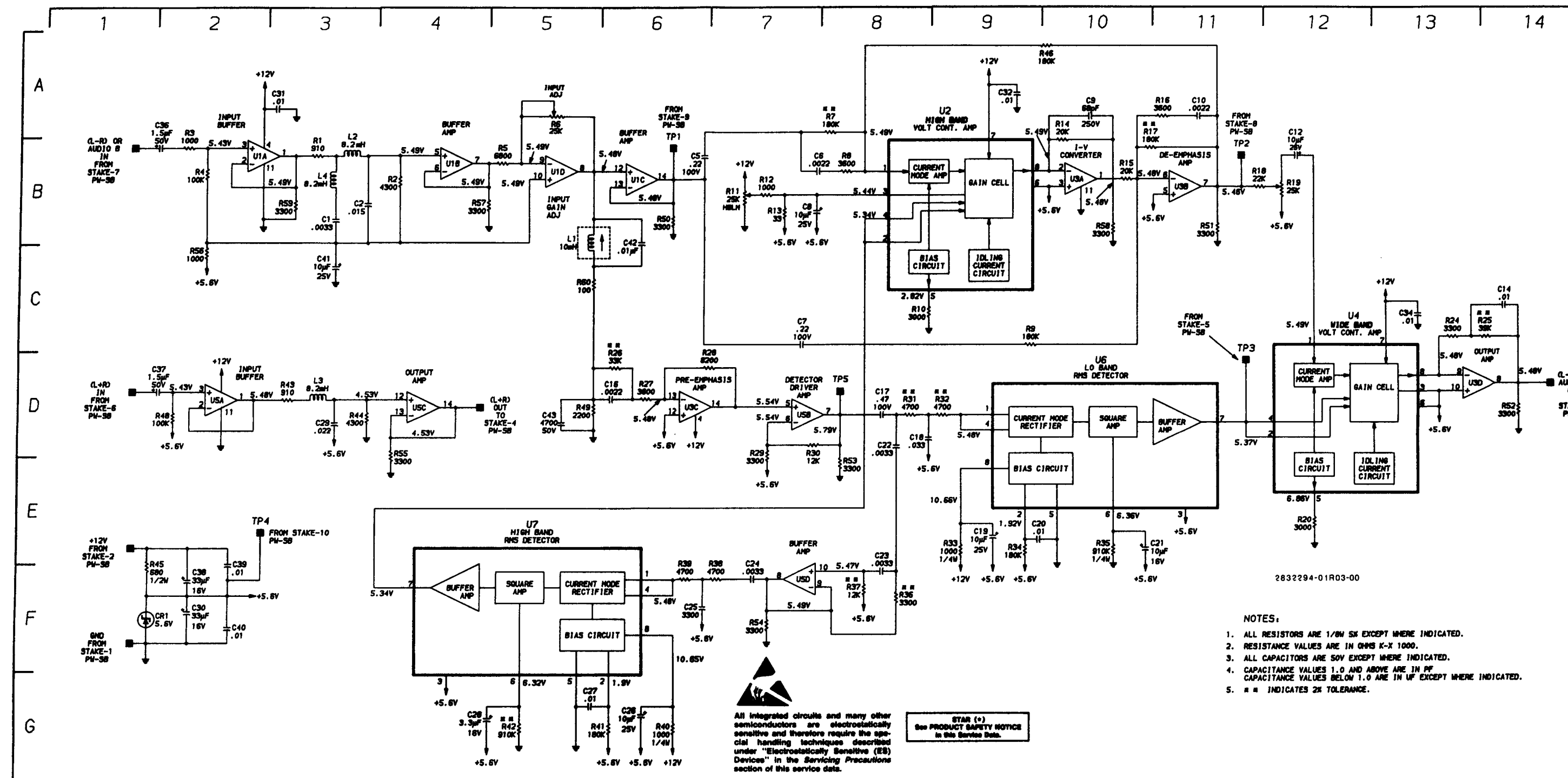




STEREO BROADCAST DECODER (PW SB-1) CIRCUIT BOARD

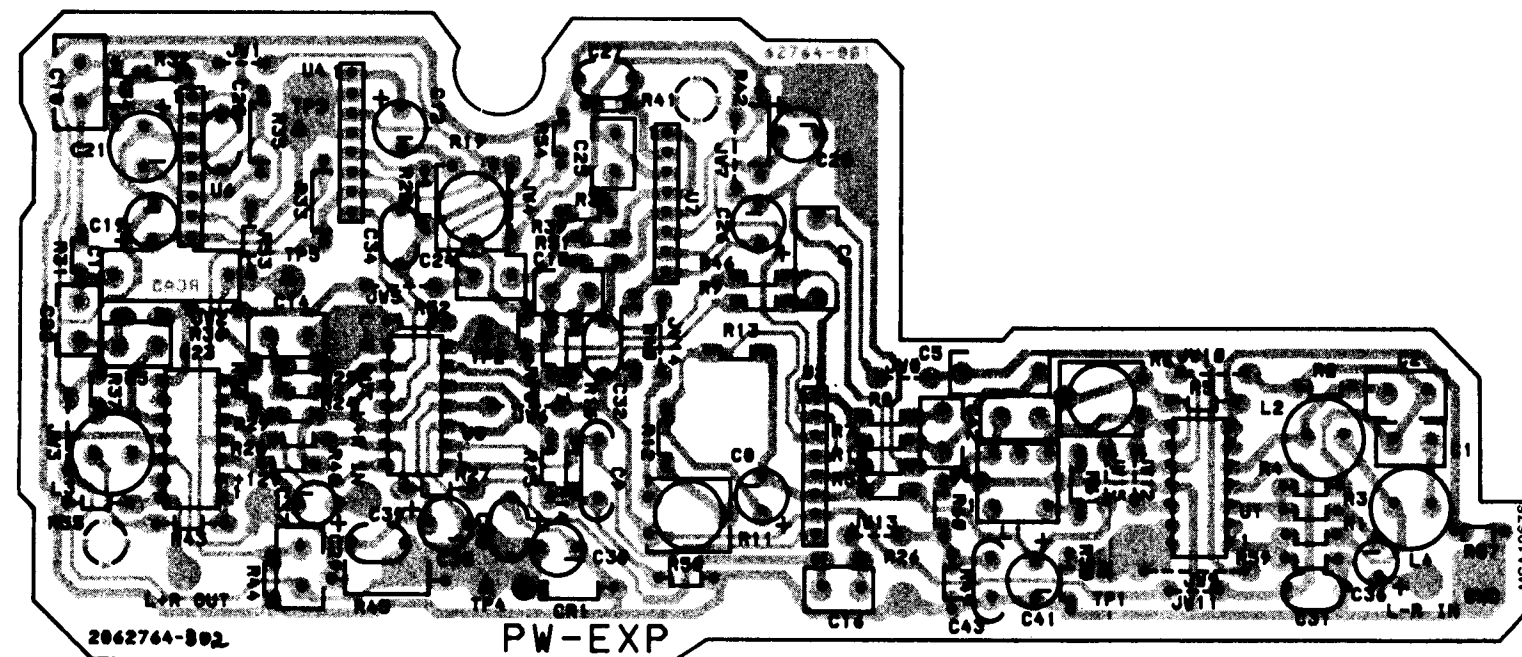


EXPANDER (PW EXP) SCHEMATIC



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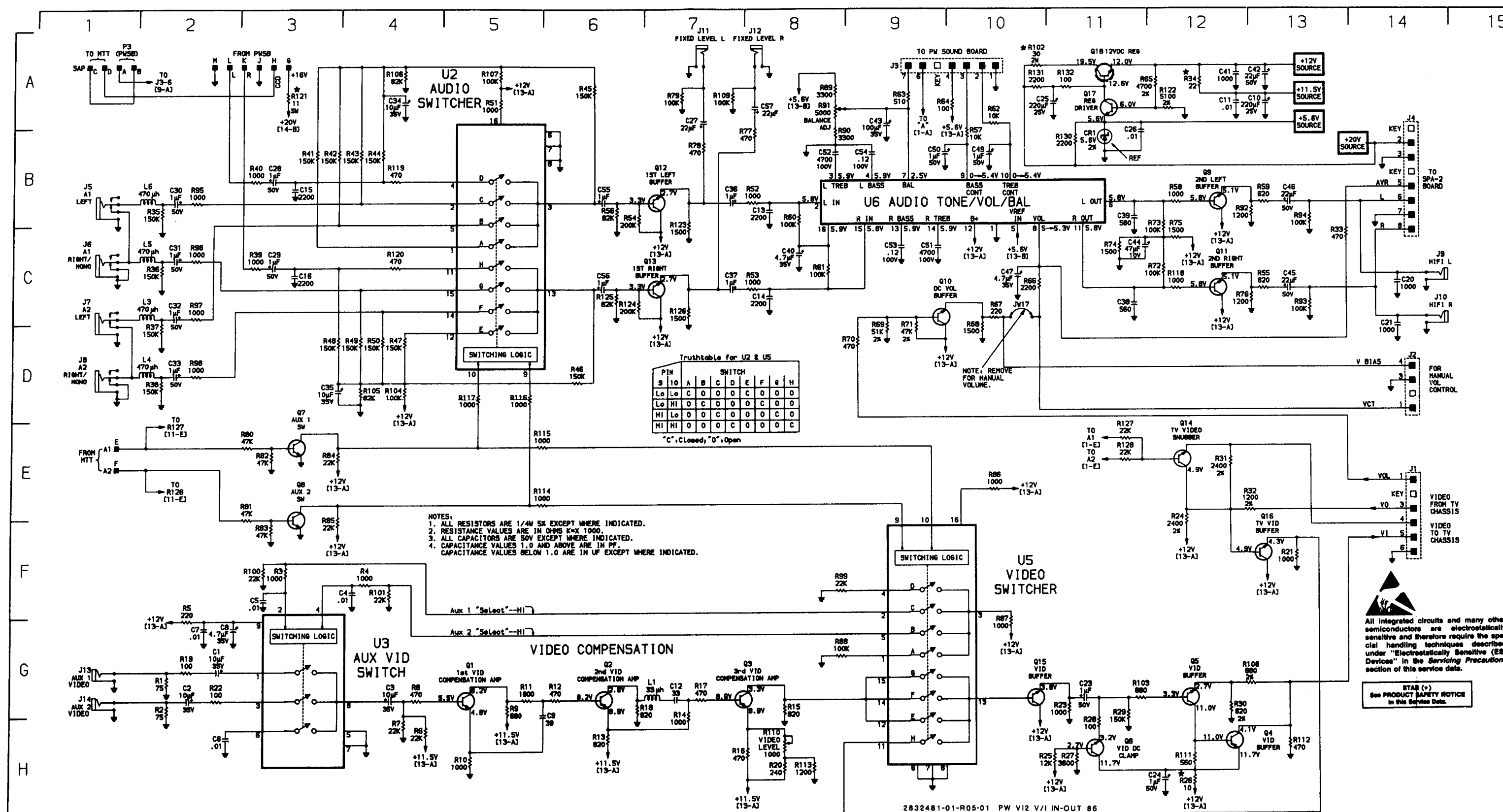
EXPANDER (PW EXP) CIRCUIT BOARD



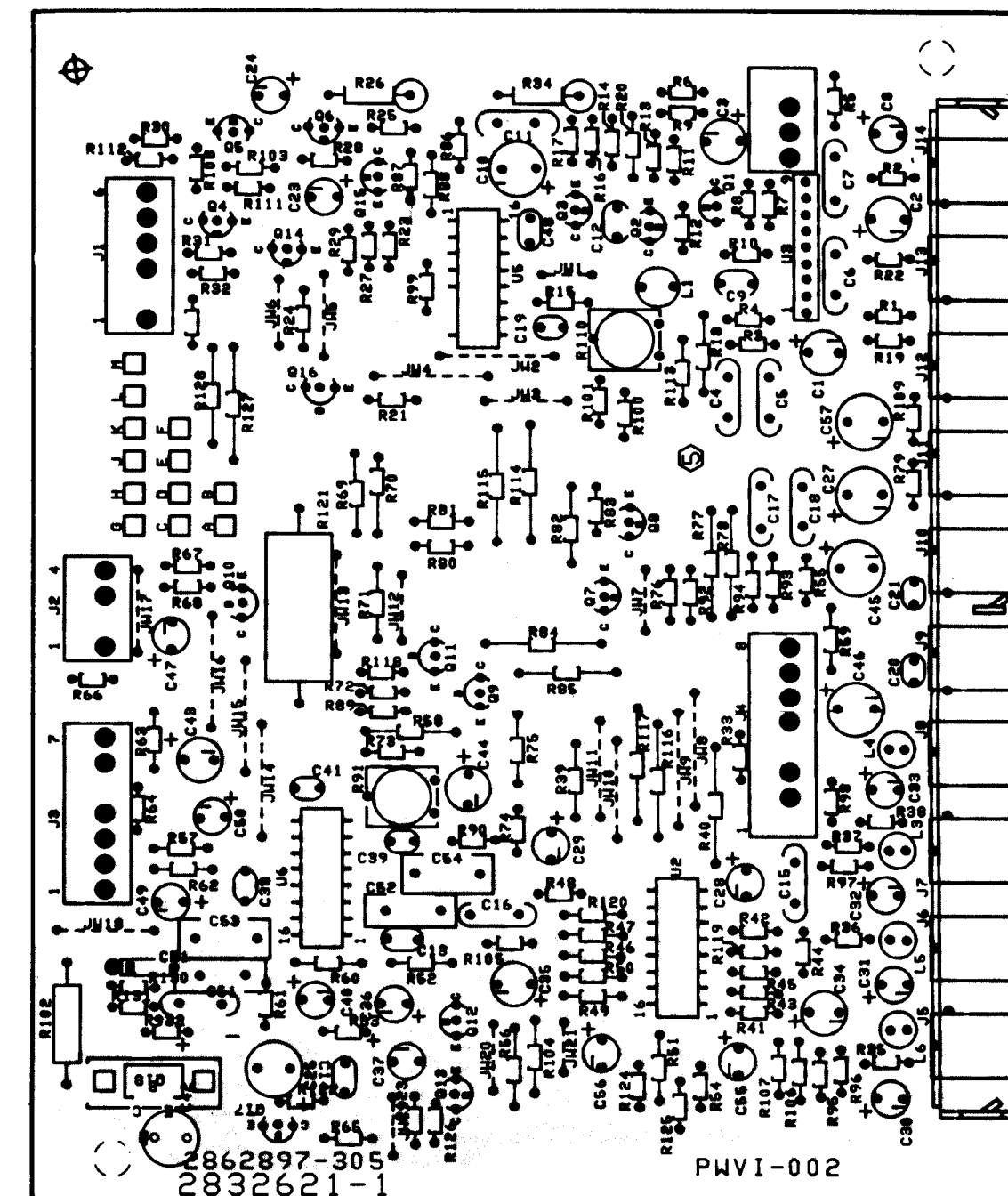
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VIDEO IN-OUT (PW V12) SCHEMATIC



VIDEO IN-OUT (PW V12) CIRCUIT BOARD

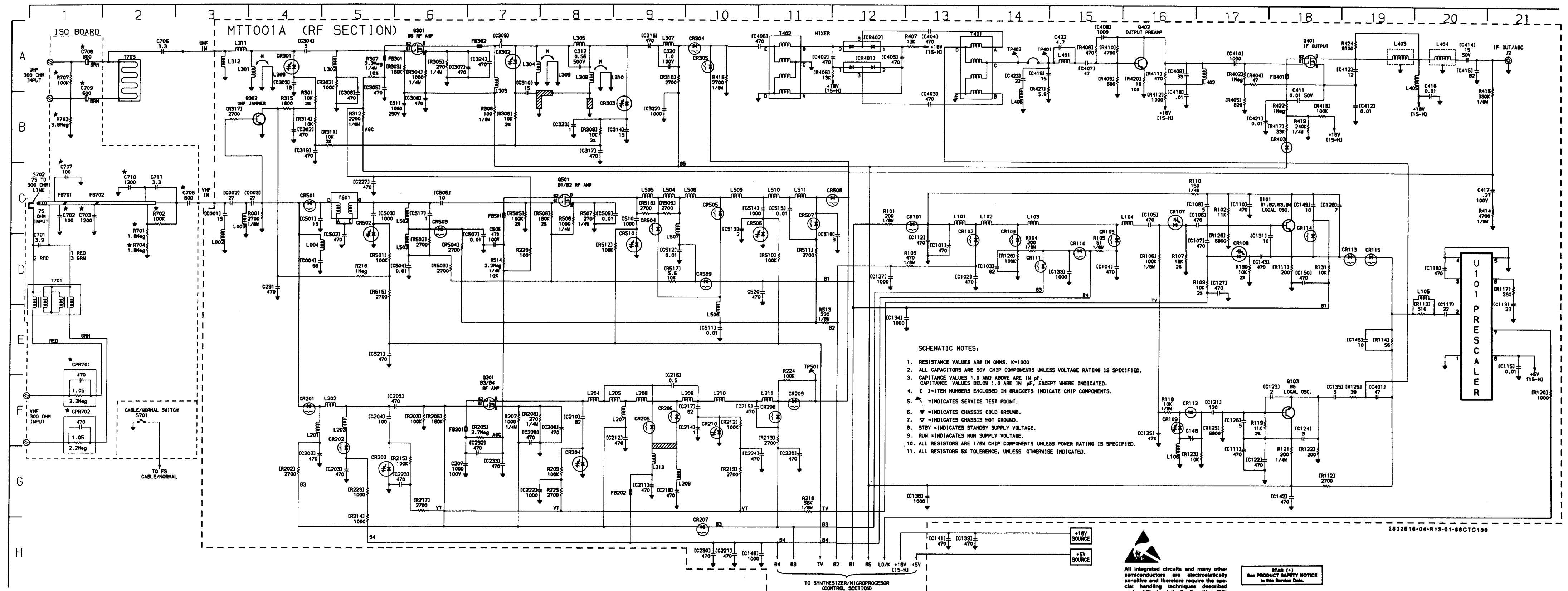


All integrated circuits and many other semiconductors are electrostatically sensitive and therefore require the special handling techniques described under "Electrostatically Sensitive (ES) Devices" in the Servicing Precautions section of this service data.

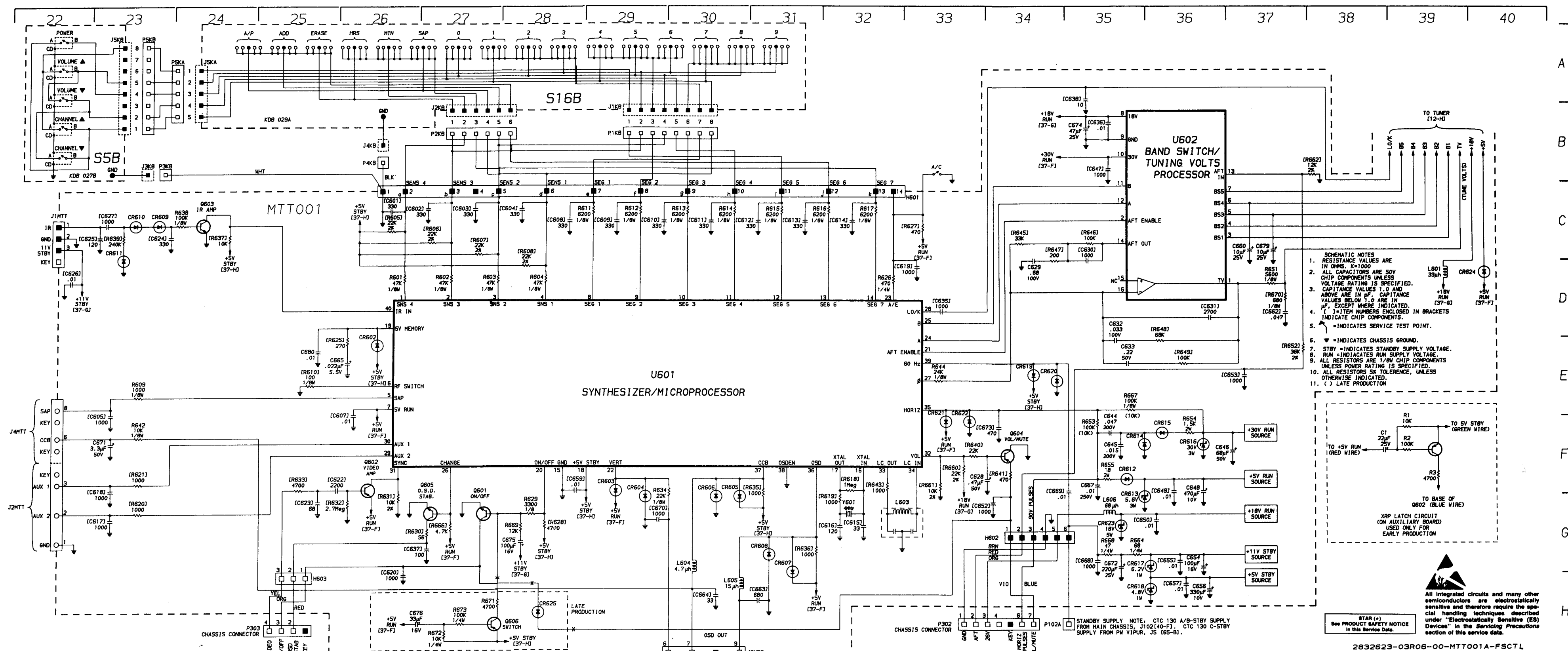
STAR (*)
See PRODUCT SAFETY NOTICE in this service data.

MAIN CHASSIS CIRCUIT BOARD
COMPONENT LOCATION GUIDE

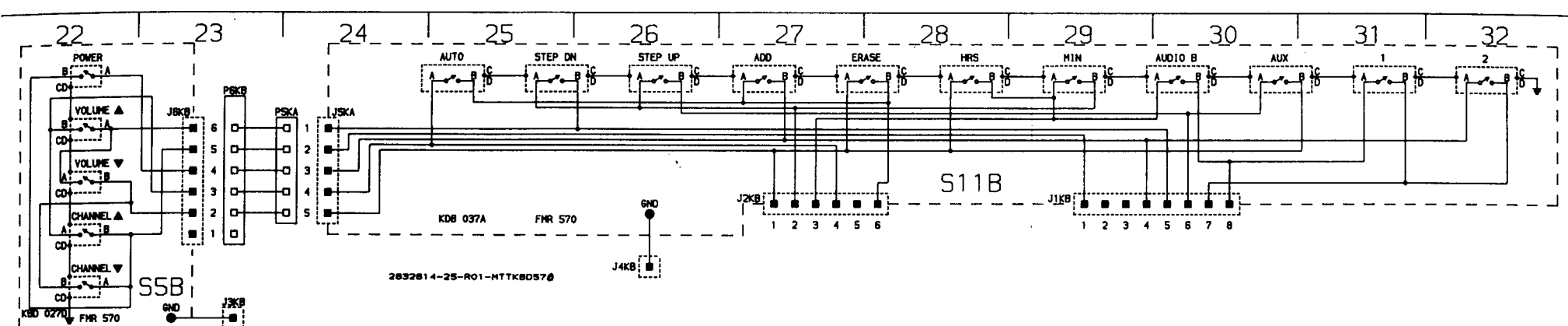
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C102	2B	C415	5E	CR302	5B	L402	1E	R321	5B	R719	1E	TP103	5A
C103	2B	C416	5F	CR402	6G	L403	2D	R322	5B	R720	2D	TP101	6C
C104	2A	C417	3E	CR406	5F	L701	2D	R323	5B	R721	1D	TP104	6C
C105	3A	C418	3E	CR406	5F	L702	2D	R324	5B	R722	1D	TP104	6C
C106	5F	C419	4F	CR407	4E	L703	2C	R327	6A	R723	2C	TP401	5E
C107	6F	C420	3E	CR408	5E	L704	2C	R328	5B	R724	1C	TP403	5E
C108	6G	C421	6F	CR408	5E	L705	2C	R329	7B	R725	2C	TP403	5E
C109	4F	C422	1F	CR410	4G	L801	2D	R331	7D	R726	2D	TP701	2D
C110	2A	C423	3E	CR411	2F	L802	2C	R332	6A	R727	1G	TP702	3C
C111	5F	C424	4E	CR412	2F	L803	4C	R333	6B	R728	3D	TP703	3C
C112	5G	C431	2F	CR501	7F	L805	3B	R337	6A	R729	3C	TP704	3C
C113	4G	C432	3F	CR502	6E	L806	4B	R338	6E	R730	3C	TP704	3C
C114	5G	C433	1E	CR503	7F	L808	4B	R339	6D	R731	3C	TP601	4D
C115	5G	C434	2F	CR504	7F	P301	6C	R401	6E	R732	3C	TP608	4C
C116	5G	C435	2F	CR505	7F	P302	6C	R402	5G	R733	3C	TP607	1B
C117	5G	C436	2E	CR507	7G	Q301	7D	R403	7F	R734	3C	U201	4A
C118	1G	C483	6G	CR701	4D	Q303	6C	R404	6F	R735	1C	U201	7B
C119	4F	C484	6G	CR703	5D	Q304	6C	R405	6E	R736	1C	U201	7B
C120	4E	C502	6E	CR704	3D	Q305	5B	R407	6F	R737	1C	U701	3C
C121	4A	C503	4F	CR705	1A	Q401	1F	R411	5F	R738	1C	U701	3C
C122	5F	C504	7F	CR706	4C	Q402	1F	R412	4F	R739	2C	WS102	4D
C123	3F	C505	7F	CR707	4C	Q501	7F	R413	3E	R740	2C	WS101	4D
C201	3A	C506	7F	Q502	7F	R415	3E	R741	4C	R742	4C	Y801	3B
C202	5B	C507	6G	DL701	5C	Q701	3D	R416	5E	R743	3C	Y801	3B
C203	4A	C508	6F	F101	1A	Q703	1D	R417	3E	R744	4C	Y801	3B
C204	5B	C509	7E	F105	3F	Q704	2C	R418	1F	R745	6D	Y801	3B
C205	4B	C510	7E	F101	1A	Q705	2C	R419	4E	R746	2D	Y801	3B
C206	4B	C511	6E	F102	4F	Q706	2C	R420	4E	R747	2D	Y801	3B
C207	4B	C512	6E	F102	4F	Q707	2C	R421	5C	R748	3D	Y801	3B
C208	4B	C513	6E	F102	4F	Q708	2C	R422	3E	R749	1D	Y801	3B
C209	4B	C514	6E	F102	4F	Q709	2C	R423	3E	R750	1D	Y801	3B
C210	4B	C515	6E	F102	4F	Q710	2C	R424	1F	R751	1D	Y801	3B
C211	5B	C704	2D	F301	6B	R101	2A	R425	5E	R752	1D	Y801	3B
C212	5A	C705	3D	F302	7B	R102	1G	R426	4F	R753	1D	Y801	3B
C213	5A	C706	3D	F303	7D	R103	3F	R427	5F	R754	1D	Y801	3B
C214	5A	C707	4D	F304	8B	R104	3F	R428	5F	R755	1D	Y801	3B
C301	7D	C708	3B	F305	9C	R105	6F	R429	5F	R756	1D	Y801	3B
C302	6D	C709	3C	F306	7A	R106	6G	R430	5F	R757	1D	Y801	3B
C303	7D	C710	3D	F307	7B	R107	6G	R431	5F	R758	1D	Y801	3B
C304	7D	C711	3C	F308	6A	R108	6G	R432	4F	R759	1D	Y801	3B
C305	7D	C712	3C	F309	6A	R109	6G	R433	4F	R760	1D	Y801	3B
C306	7D	C713	3C	F310	6A	R110	6G	R434	4F	R761	1D	Y801	3B
C307	7C	C714	2C	F311	6A	R111	6G	R435	4F	R762	1D	Y801	3B
C308	7C	C715	2C	F312	6A	R112	6G	R436	4F	R763	1D	Y801	3B
C309	6A	C716	2C	F313	6A	R113	6G	R437	4F	R764	1D	Y801	3B
C310	6A	C717	2C	F314	6A	R114	6G	R438	4F	R765	1D	Y801	3B
C311	6A	C718	1C	F315	6A	R115	6G	R439	4F	R766	1D	Y801	3B
C312	7C	C801	5D	J101	1B	R116	4F	R440	4F	R767	1D	Y801	3B
C313	7C	C802	5D	J102	1B	R117	4F	R441	4F	R768	1D	Y801	3B
C314	7C	C803	5D	J103	1B	R118	4F	R442	4F	R769	1D	Y801	3B
C315	7A	C804	4C	J104	2B	R119	4F	R443	4F	R770	1D	Y801	3B
C316	7A	C805	4C	J105	2B	R120	1B	R444	4F	R771	1D	Y801	3B
C317	7A	C806	4C	J106	1A	R121	2E	R445	4F	R772	1D	Y801	3B
C318	7A	C807	4C	J107	1A	R122	6E	R446	4F	R773	1D	Y801	3B
C319	7A	C808	4C	J108	1A	R123	5F	R447	4F	R774	1D	Y801	3B
C320	7A	C809	4C	J109	1A	R124	1G	R448	4F	R775	1D	Y801	3B
C321	7A	C810	4C	J110	3D	R125	1F	R449	4F	R776	1D	Y801	3B
C322	7B	C811	4C	J111	3D	R126	1F	R450	4F	R777	1D	Y801	3B
C323	7B	C812	4C	J112	3D	R127	1F	R451	4F	R778	1D	Y801	3B
C324	7B	C813	3B	J113	3D	R128	1F	R452	4F	R779	1D	Y801	3B
C325	7B	C814	3B	J114	3D	R129	1F	R453	4F	R780	1D	Y801	3B
C326	7B	C815	3B	J115	3D	R130	1F	R454	4F	R781	1D	Y801	3B
C327	7B	C816	3B	J116	3D	R131	1F	R455	4F	R782	1D	Y801	3B
C328	7B	C817	3B	J117	3D	R132	1F	R456	4F	R783	1D	Y801	3B
C329	7B	C818	3B	J118	3D	R133	1F	R457	4F	R784	1D	Y801	3B
C330	7B	C819	3B	J119	3D	R134	1F	R458	4F	R785	1D	Y801	3B
C331	7B	C820	3B	J120	3D	R135	1F	R459	4F	R786	1D	Y801	3B
C332	7B	C821	3B	J121	3D	R136	1F	R460	4F	R787	1D	Y801	3B
C333	7B	C822	3B	J122	3D	R137	1F	R461	4F	R788	1D	Y801	3B
C334	7B	C823	3B	J123	3D	R138	1F	R462	4F	R789	1D	Y801	3B
C335	7B	C824	3B	J124	3D	R139	1F	R463	4F	R790	1D	Y801	3B
C336	7B	C825	3B	J125	3D	R140	1F	R464	4F	R791	1D	Y801	3B
C337	7B	C826	3B	J126	3D	R141	1F	R465	4F	R792	1D	Y801	3B
C338	7B	C827	3B	J127	3D	R142	1F	R466	4F	R793	1D	Y801	3B
C339	7B	C828	3B	J128	3D	R143	1F	R467	4F	R794	1D	Y801	3B
C340	7B	C829	3B	J129	3D	R144	1F	R468	4F	R795	1D	Y801	3B
C341	7B	C830	3B	J130	3D	R145	1F	R469	4F	R796	1D	Y801	3B
C342	7B	C831	3B	J131	3D	R146	1F	R470	4F	R797	1D	Y801	3B
C343	7B	C832	3B	J132	3D	R147	1F	R471	4F	R798	1D	Y801	3B
C344	7B	C833	3B	J133	3D	R148	1F	R472	4F	R799	1D	Y801	3B
C345	7B	C834	3B	J134	3D	R149	1F	R473	4F	R800	1D	Y801	3B
C346	7B	C835	3B	J135	3D	R150	1F	R474	4F	R801	1D	Y801	3B
C347	7B	C836	3B	J136	3D	R151	1F	R475	4F	R802	1D	Y801	3B
C348	7B	C837	3B	J137	3D	R152	1F	R476	4F	R803	1D	Y801	3B
C349	7B	C838	3B	J138	3D	R153	1F	R477	4F	R804	1D	Y801	3B
C350	7B	C839	3B	J139	3D	R154	1F	R478	4F	R805	1D	Y801	3B
C351	7B	C840	3B	J140	3D	R155	1F	R479	4F	R806	1D	Y801	3B
C352	7B	C841	3B	J141	3D	R156	1F	R480	4F	R807	1D	Y801	3B
C353	7B	C842	3B	J142	3D	R157	1F	R481	4F	R808	1D	Y801	3B
C354	7B	C843	3B	J143	3D	R158	1F	R482	4F	R809	1D	Y801	3B
C355	7B	C844	3B	J144	3D	R159	1F	R483	4F	R810	1D	Y801	3B
C356	7B	C845	3B	J145	3D	R160	1F	R484	4F	R811	1D	Y801	3B
C357	7B	C846	3B	J146	3D	R161	1F	R485	4F	R812	1D	Y801	3B
C358	7B	C847	3B	J147	3D	R162	1F	R486	4F	R813	1D	Y801	3B
C359	7B	C848	3B	J148	3D	R163	1F	R487	4F	R814	1D	Y801	3B
C360	7B	C849	3B	J149	3D	R164	1F	R488	4F	R815	1D	Y801	3B
C361	7B	C850	3B	J150	3D	R165	1F	R489	4F	R816	1D	Y801	3B
C362	7B	C851	3B	J151	3D	R166	1F	R490	4F	R817	1D	Y801	3B
C363	7B	C852	3B	J152	3D	R167	1F	R491	4F	R818	1D	Y801	3B
C364	7B	C853	3B	J153	3D	R168	1F	R492	4F	R819	1D	Y801	3B
C365	7B	C854	3B	J154	3D	R169	1F	R493	4F	R820	1D	Y801	3B
C366	7B	C855	3B	J155	3D	R170	1F	R494	4F	R821	1D	Y801	3B
C367	7B	C856	3B	J156	3D	R171	1F	R495	4F	R822	1D	Y801	3B
C368	7B	C857	3B	J157	3D	R172	1F	R496	4F	R823	1D	Y801	3B
C369	7B	C858	3B	J158	3D	R173	1F	R497	4F	R824	1D	Y801	3B
C370	7B	C859	3B	J159	3D	R174	1F	R498	4F	R825	1D	Y801	3B
C371	7B	C860	3B	J160	3D	R175	1F	R499	4F	R826	1D	Y801	3B
C372	7B	C861	3B	J161	3D	R176	1F	R500	4F	R827	1D	Y801	3B
C373	7B	C862	3B	J162	3D	R177	1F	R501	4F	R828	1D	Y801	3B
C374	7B	C863	3B	J163	3D	R178	1F	R502	4F	R829	1D	Y801	3B



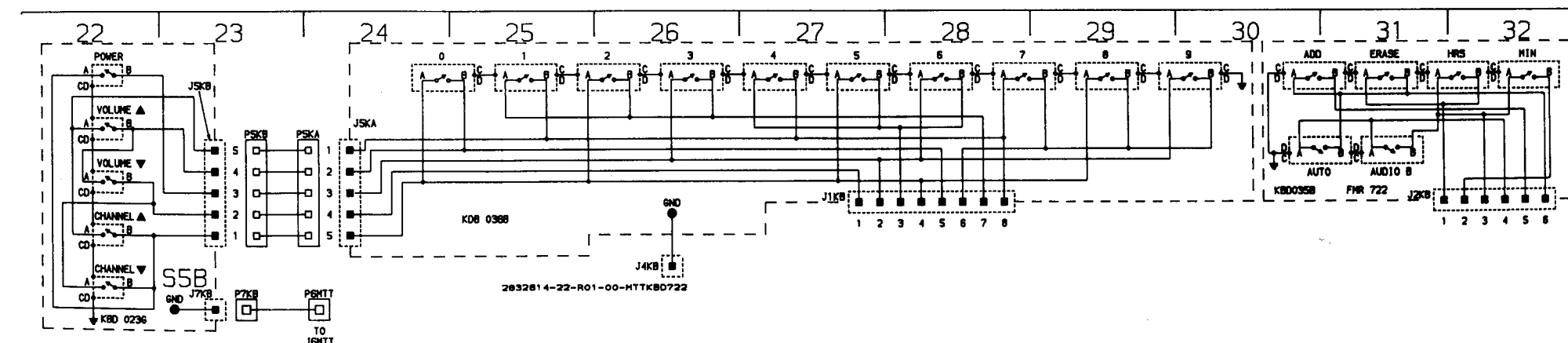
MTT001A TUNE SYSTEM (CONTROL SECTION) SCHEMATIC



KEYBOARD CONFIGURATION(USED MODEL FMR570)



KEYBOARD CONFIGURATION (USED MODEL FMR722)



1-11
MTT001A CHIP COMPONENT LOCATION GUIDE

C1	11A	C145	11K	C319	12F	C603	3A	C663	1M	R221	11B	R510	9D
C2	10A	C146	8J	C319	14C	C604	3A	C664	1H	R222	11B	R511	9E
C3	10A	C147	10K	C322	12E	C605	1B	C666	3L	R301	13A	R512	9D
C4	9A	C148	9H	C323	14E	C606	1B	C668	4L	R302	13B	R513	9C
C10	9H	C150	8H	C401	12J	C807	3C	C670	1F	R303	14B	R517	9D
C101	10L	C202	11A	C403	13H	C808	3A	C670	7C	R304	13C	R518	9D
C102	10L	C203	12B	C404	13H	C809	4A	C673	3D	R305	13B	R506	2A
C103	10K	C204	10B	C405	13H	C810	4A			R308	14D	R506	2A
C104	10J	C205	10C	C406	12F	C811	4A	CR401	13H	R309	14D	R507	3A
C105	9J	C206	11C	C407	12J	C812	4A	CR402	12H	R310	13F	R508	3A
C106	9J	C210	11D	C408	13K	C813	5A			R311	14D	R509	6B
C107	9J	C211	11D	C409	12L	C814	5A	R102	10L	R314	14B	R518	5C
C108	10F	C212	11D	C410	12L	C815	5C	R109	9J	R317	11A	R520	1C
C110	10H	C214	11F	C412	13K	C816	5B	R111	10H	R402	12H	R521	1C
C111	11H	C215	10E	C413	13L	C817	1D	R113	11K	R402	12L	R525	7B
C115	11L	C216	10E	C415	14J	C818	1D	R114	11K	R403	12L	R527	6B
C116	8L	C217	10E	C416	14K	C819	5A	R115	8J	R404	13K	R528	6B
C117	11K	C218	12E	C418	12L	C820	1J	R117	11L	R405	13K	R530	2J
C118	11K	C219	11B	C419	13J	C822	2J	R119	11J	R406	13H	R531	2K
C119	11L	C220	10F	C420	12J	C823	1J	R120	11L	R407	12K	R532	2K
C121	10J	C221	10F	C421	13L	C824	1D	R122	11J	R408	13K	R533	1J
C122	11J	C223	11C	C501	8A	C825	1E	R123	10J	R408	12J	R535	2D
C123	10J	C224	11E	C502	9B	C826	1F	R126	10J	R411	12K	R536	3H
C125	11H	C227	12C	C503	8B	C827	1E	R128	10K	R412	12K	R537	2D
C126	11J	C228	10C	C504	7B	C830	6D	R129	11J	R417	14F	R539	2E
C127	11J	C229	11B	C505	8D	C831	6E	R130	10J	R418	13J	R540	1K
C127	8J	C302	13A	C507	8A	C834	7H	R167	10J	R420	12K	R541	1L
C128	9H	C303	13A	C509	8C	C835	8K	R202	10C	R421	13J	R543	3D
C131	9J	C304	14B	C510	8C	C836	5H	R202	9C	R423	13K	R545	
C133	8K	C305	14C	C511	7E	C837	1K	R203	11C	R467	12H	R546	8D
C134	8L	C306	13B	C512	7D	C838	7K	R205	10D	R501	9B	R547	7D
C135	11K	C307	13B	C513	8E	C849	7L	R206	10C	R502	8B	R548	6E
C137	8K	C308	13C	C514	9E	C850	3L	R208	11C	R503	9C	R549	6E
C138	8H	C309	14C	C515	9E	C852	1L	R209	10D	R504	9C	R552	2K
C139	8H	C310	13D	C516	9B	C853	2L	R212	11E	R505	8B	R550	5J
C141	12H	C313	12E	C517	8B	C855	4K	R213	10E	R506	8C	R561	1K
C142	11H	C314	14E	C518	9F	C857	5L	R215	11C	R508	8C	R562	2K
C143	10J	C316	14F	C801	2A	C859	5C	R217	10C	R507	7C	R566	2E
C144	9J	C317	13E	C802	2A	C862	7C	R219	10D	R509	8D	R567	2H

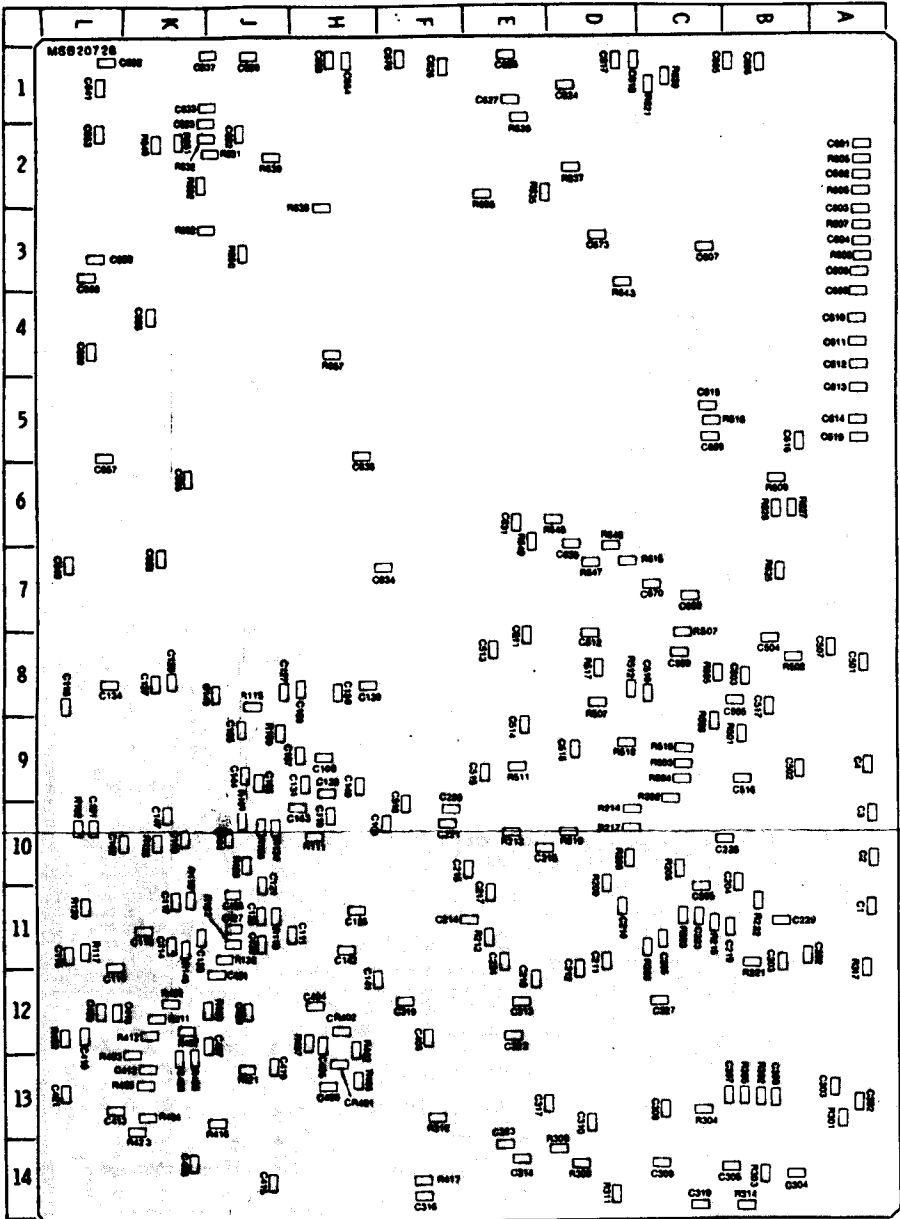
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1-15

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1-15

1-12
MTT001A CIRCUIT BOARD (Chip component location)



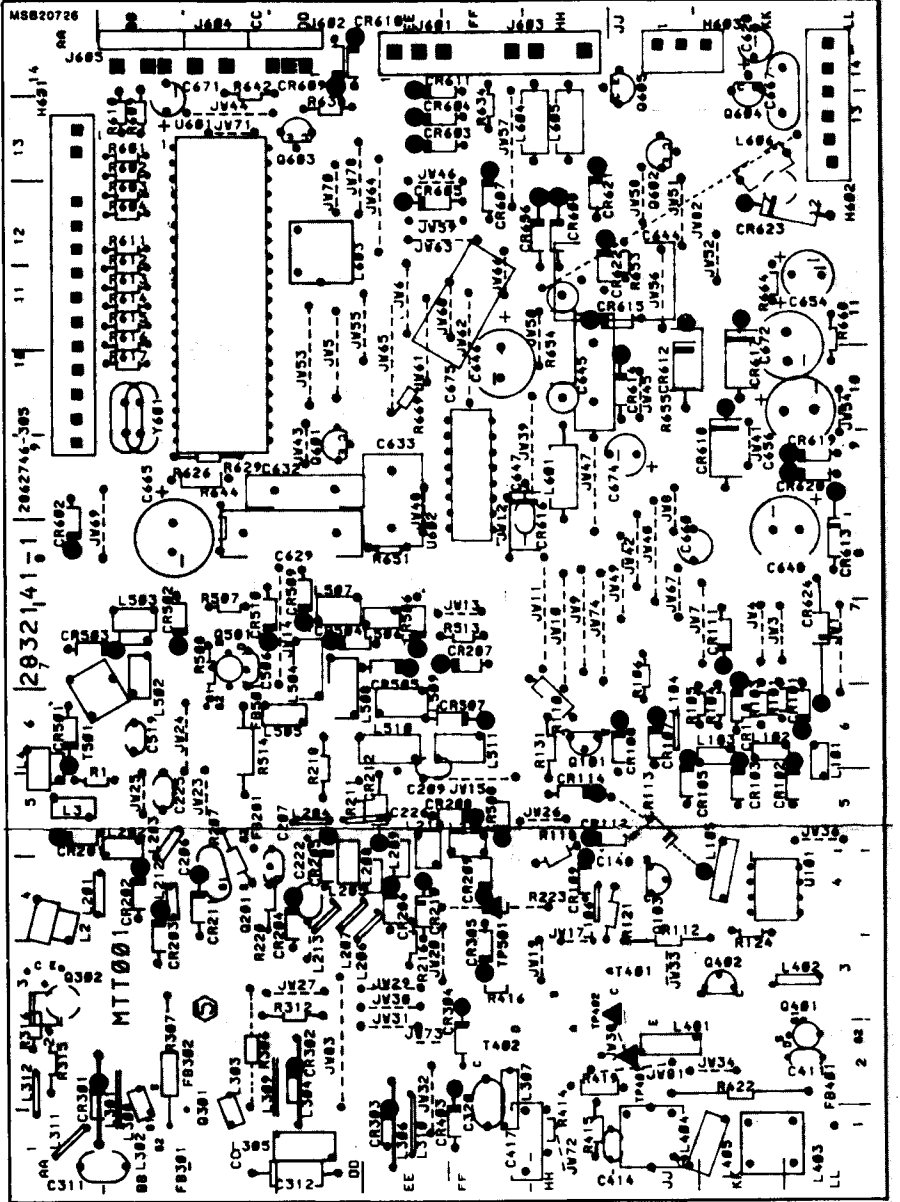
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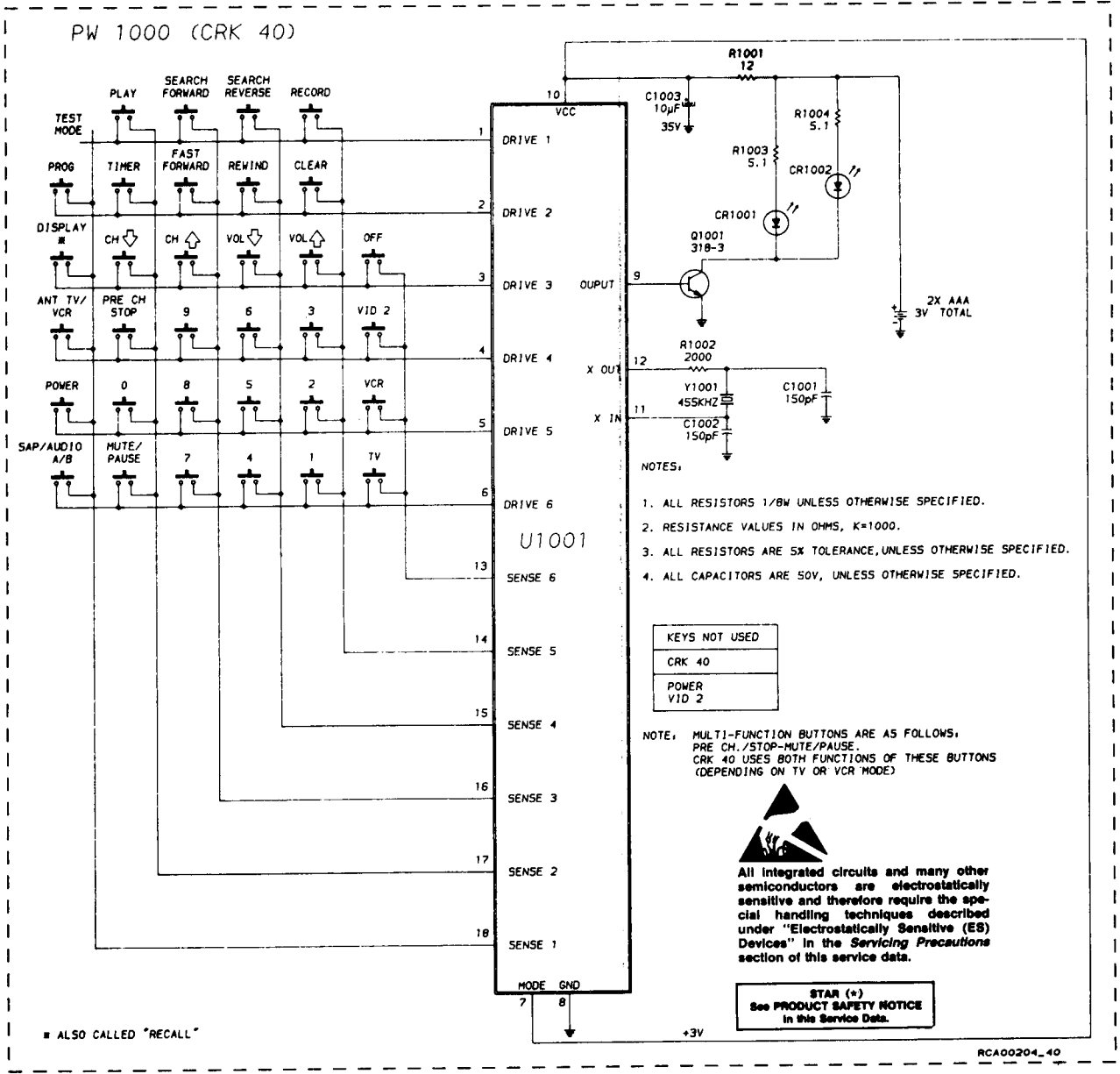
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1-13
MTT001A CIRCUIT BOARD (component view)



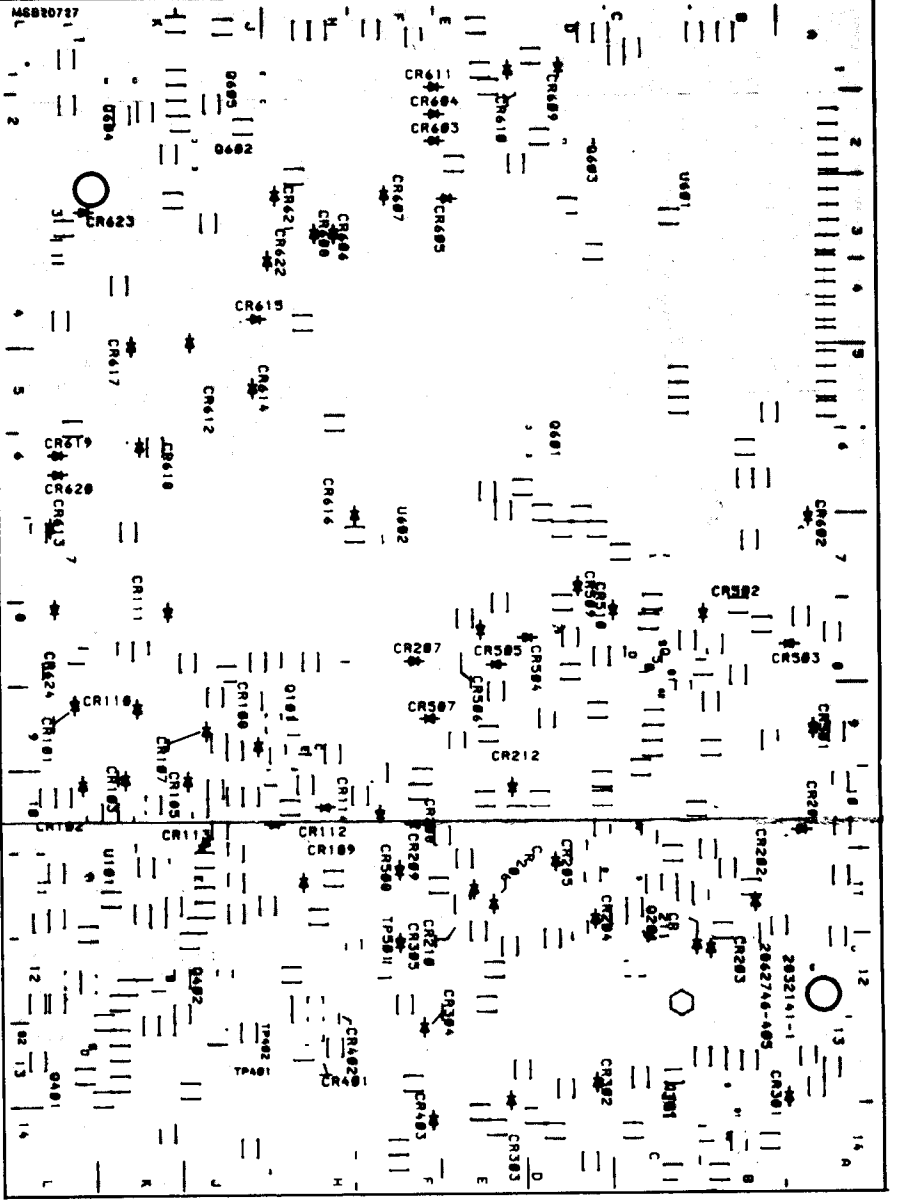
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1-17
CRK40 REMOTE TRANSMITTER SCHEMATIC



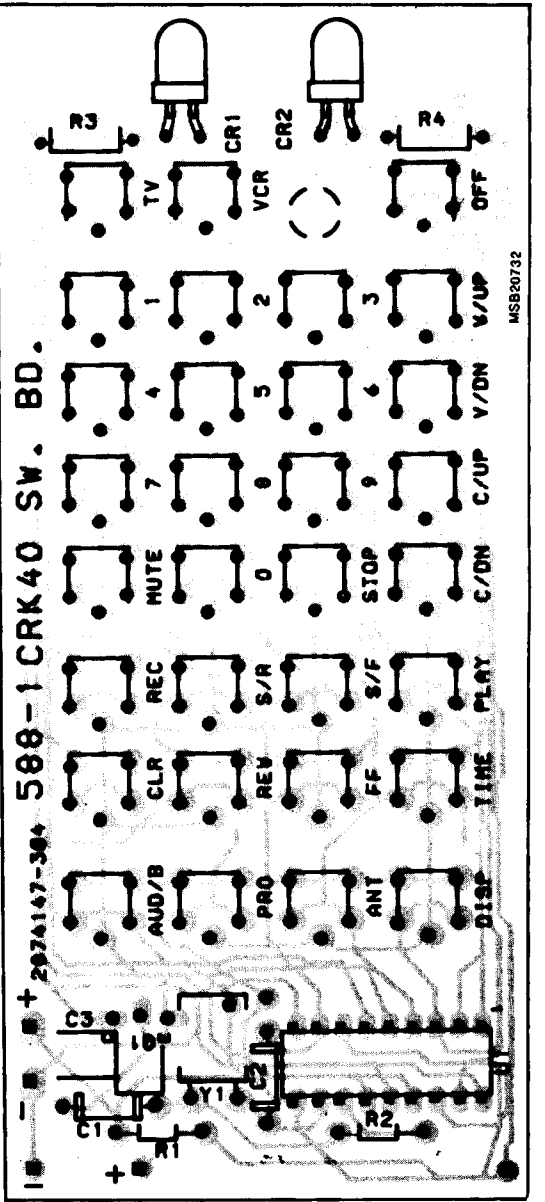
1-17

1-14
MTT001A CIRCUIT BOARD (copper side view)



1-14

1-18
CRK40 REMOTE TRANSMITTER CIRCUIT BOARD



1-18

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1-Q8

