

Service Service Service



14PV/xxx

14PV100/01/07/58	14PV406/01/07/39
14PV200/01	21PV330/01/07/39/58
14PV211/01/07/39/58	21PV700/07/39
14PV217/01/07/39	21PV708/07/39
14PV330/01/07/39	25PV808/07/39
14PV334/01/07/39	37TVB51/39
14PV335/01/07/39	51TVB61/39
14PV400/01/07/39/58	37TR216/03/39
14PV404/01/07/39	51TR226/03/39
14PV405/01/07/39/58	

Service Manual

Evolution: AA

For chapters 1 and 2 reference is made to the Service Manual of TVCR 99 Delta **3103 785 20010**.
The present Manual states only the differences.



Für die Kapitel 1 und 2 siehe Service Manual TVCR 99 Delta **3103 785 20000**.
In dieser Dokumentation sind nur die Unterschiede enthalten.



Voor de hoofdstuk 1 en 2 wordt verwezen naar de Service Documentatie van de TVCR 99 Delta **3103 785 20030**.
Alleen de verschillen worden in deze documentatie gegeven.



Pour ce qui est des chapitres 1 et 2 veuillez vous référer à la Documentation Service du TVCR 99 Delta **3103 785 20020**.
Cette documentation ne reprend que les différences.



Per i capitoli 1 e 2 veda il Manuale di Servizio di TVCR 99 Delta **3103 785 20040**.
La presente documentazione contiene soltanto le differenze.



Para los capítulos 1 y 2 véase el manual de servicio de TVCR 99 Delta **3103 785 20050**.
La presente documentación contiene sólo las diferencias.

Survey of versions:

/01/03	PAL B/G (with VPS)
/05	PAL I UK
/07(mono)	PAL I Ireland
/07(stereo)	PAL/SECAM B/G, D/K, K1, I, L, L'
/39	PAL/SECAM B/G, D/K, K1, I, L, L'
/58	PAL/SECAM B/G, D/K
/75	PAL B/G, I

Remote control:

14PV100/01/07/58	RTT11/201	8622 667 11201
37TVB51/39		
51TVB61/39		
37TR216/03/39		
51TR226/03/39		

14PV200/01	RTT90/101	8622 667 90101
14PV211/01/07/39/58		
14PV330/01/07/39		
14PV334/01/07/39		
21PV330/01/07/39/58		

14PV217/01/07/39	RTT91/101	8622 667 91101
14PV335/01/07/39		
14PV400/01/07/39/58	RTT96/101	8622 667 96101
14PV404/01/07/39		
14PV405/01/07/39/58	RTT97/101	8622 667 97101
14PV406/01/07/39		

21PV700/07/39	RTT95/101	8622 667 95101
21PV708/07/39	RTT98/101	8622 667 98101
25PV808/07/39		

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

**PHILIPS**

	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

- 1921 B9
1922-A C6
1922-B E6
1923-A A6
1923-B A6
1925 D4
1926 F1
2800 D7
2801 E7
2803 A6
2804 E2
2806 B6
2808 D2
2809 A8
2810 B8
2811 D8
2812 E8
3800 D8
3801 D8
3802 E8
3803 E8
3805 A7
3807 A7
3813 B7
3815 B7
4000 F2
6800 D8
6801 F3
6802 E8
6803 A7
6804 E2
6805 B7
6806 D2
6807 F3
6808 E2
6809 D2
6810 A7
6811 B7
6812 D8
6813 F8
I001 D8
I002 E8
I003 E8
I004 D8
I005 D7
I006 F7
I007 B8
I008 A8
I009 B7
I010 A7
I011 B6
I012 A7
I013 E2
I014 F1
I015 F3
I016 D3
I017 E2
I018 C3
I019 F3
I020 D2
I021 D1

TABLE OF CONTENTS

	Page
Front page	1-1
Table of contents	1-2
Survey of sets and features	1-3
Survey of sets and boards	1-4

III. SCHEMATICS

Interconnection wiring diagram	3-1
Block diagram - Tuner1, TV	3-2
Block diagram - Power Supply, Large Signal, TXT	3-3
Block diagram - In/Out, Audio	3-4
Block diagram - Tuner2, Video	3-5
Block diagram - Central Control, Deck Electronics	3-6
TV Board (TVB)	
Power Supply (PS) - Schematic diagram	3-7
Deflection (LS) - Schematic diagram	3-8
Tuner 1 (TU1) - Schematic diagram	3-9
TV Processing (TV) - Schematic diagram	3-10
Input/Output (IO_1) - Schematic diagram	3-11
View Selector Audio (SF) - Schematic diagram	3-12
Amplifier (AMP) - Schematic diagram	3-13
Teletext Controller (COTV) - Schematic diagram	3-14
Recorder Unit Board (RUB)	
Power Supply (PS) - Schematic diagram	3-15
Central Control 1 (AIO1) - Schematic diagram	3-16
Central Control 2 (AIO2) - Schematic diagram	3-17
Deck Electronics (DE) - Schematic diagram	3-18
Clock, VPS, Buzzer (CVB) - Schematic diagram	3-19
Tuner 2 (TU2) - Schematic diagram	3-20
Sound Processing (AP) - Schematic diagram	3-21
FM-Audio Processing (AF) - Schematic diagram	3-22
Linear Audio Processing (AL) - Schematic diagram	3-23
Video Signal Processing (VS) - Schematic diagram	3-24
SECAM Processing (VSEC) - Schematic diagram	3-25
Head Amplifier (HA) - Schematic diagram	3-26
Headphone, Front-AV Board (HPAV)	
Schematic diagram	3-27
CRT-Board (PT)	
Schematic diagram	3-28
Audio Board (APDOD)	
Pre Amplifier (ACO) - Schematic diagram	3-29
Audio Processing (AF2) - Schematic diagram	3-30
Sound Feature Board (SFD)	
Schematic diagram	3-31
Cinch Out, Scart 2 Board (DOSCD)	
Schematic diagram	3-32
Keys & Display Board (KB1D)	
Schematic diagram	3-33
Key Board (KB2D)	
Schematic diagram	3-34
Mainsfilter Board (MFSWD)	
Schematic diagram	3-34
Variant list	
Tuner 1 - TV Board (TVBAD)	3-35
Tuner 2- Recorder Unit Board (RUBAD)	3-36

IV. CIRCUIT BOARD DIAGRAMS

Sound Feature Board (SFD)	4-1
Mainsfilter Board (MFSWD)	4-1
Audio Board (APDOD)	4-1
TV Board (TVBCD), CRT Board, HPAV Board, Switch Board..	
Components side	4-2
Copper side	4-5
TV Board (TVBDD), CRT Board, HPAV Board, Switch Board..	
Components side	4-6
Copper side	4-9
Recorder Unit Board (RUB2D)	
Components side	4-10
Copper side	4-11
Cinch Out, Scart 2 Board (DOSCD)	4-12
Keys & Display Board (KB1D, KB2D)	4-12

V. EXPLODED VIEWS AND PARTS LISTS

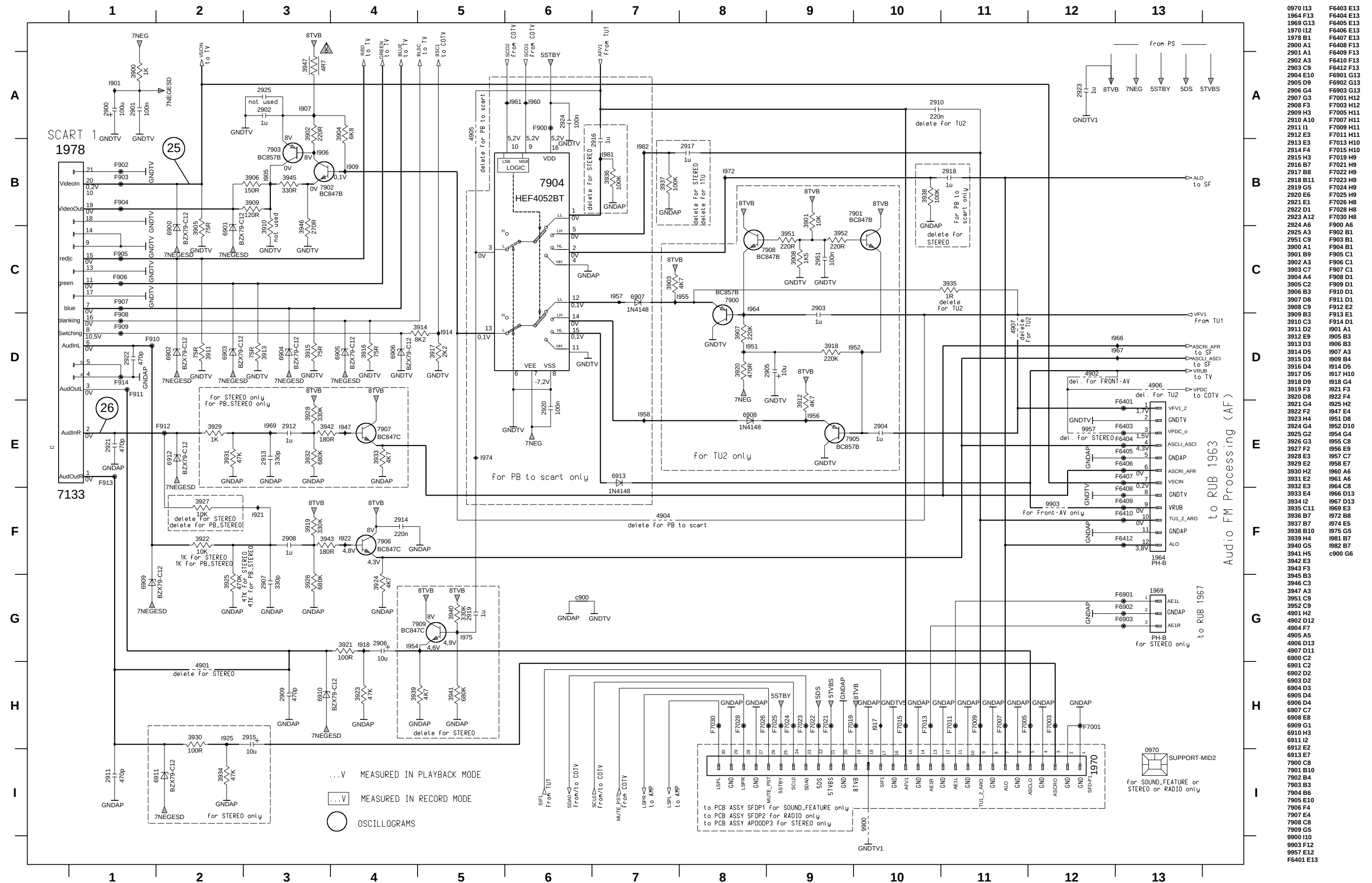
Mechanical parts list	5-1
Electrical parts list	5-4

SURVEY OF SETS AND FEATURES

[illegible]

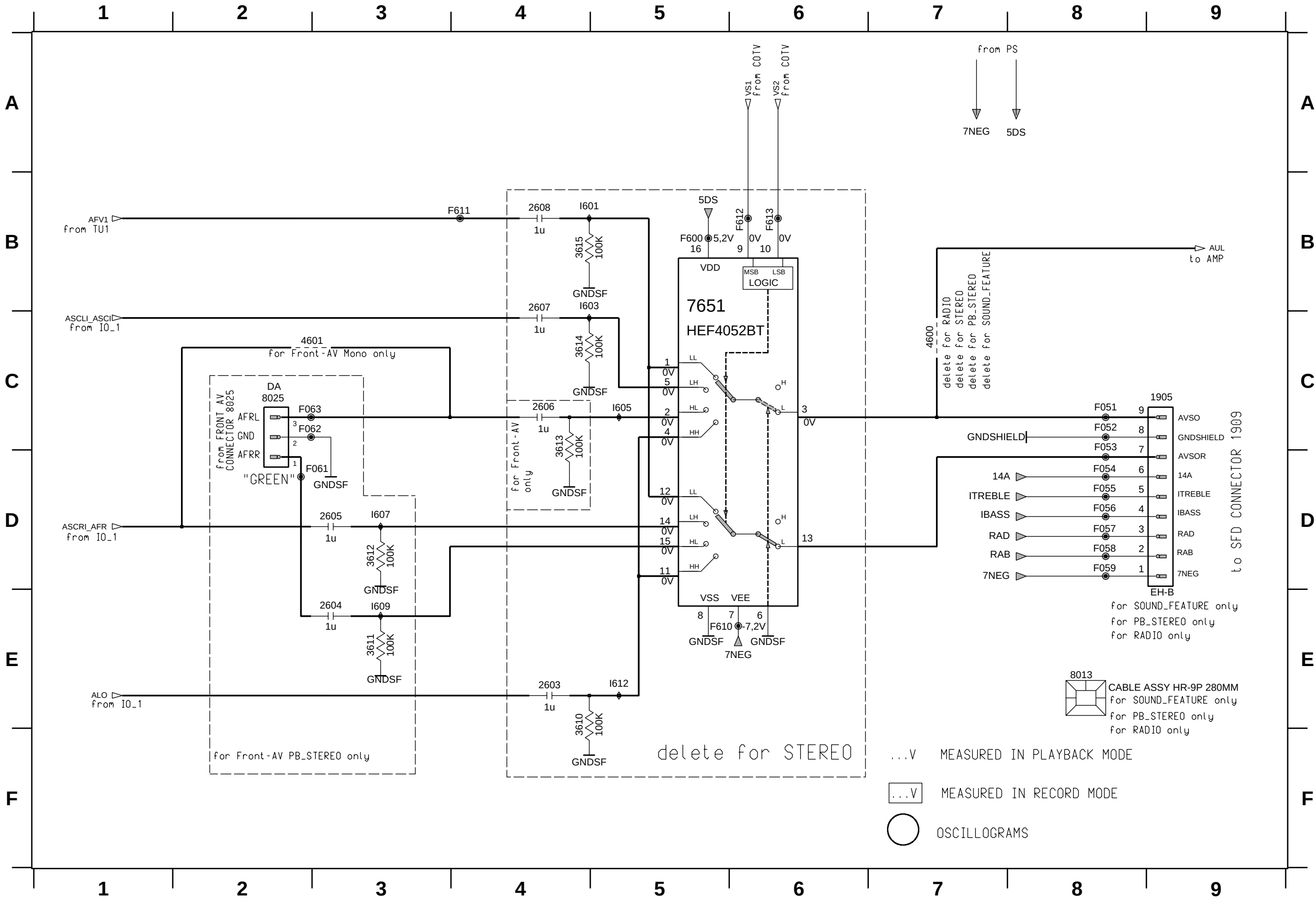
	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Input/Output (IO_1) - TV Board (TVB)



	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

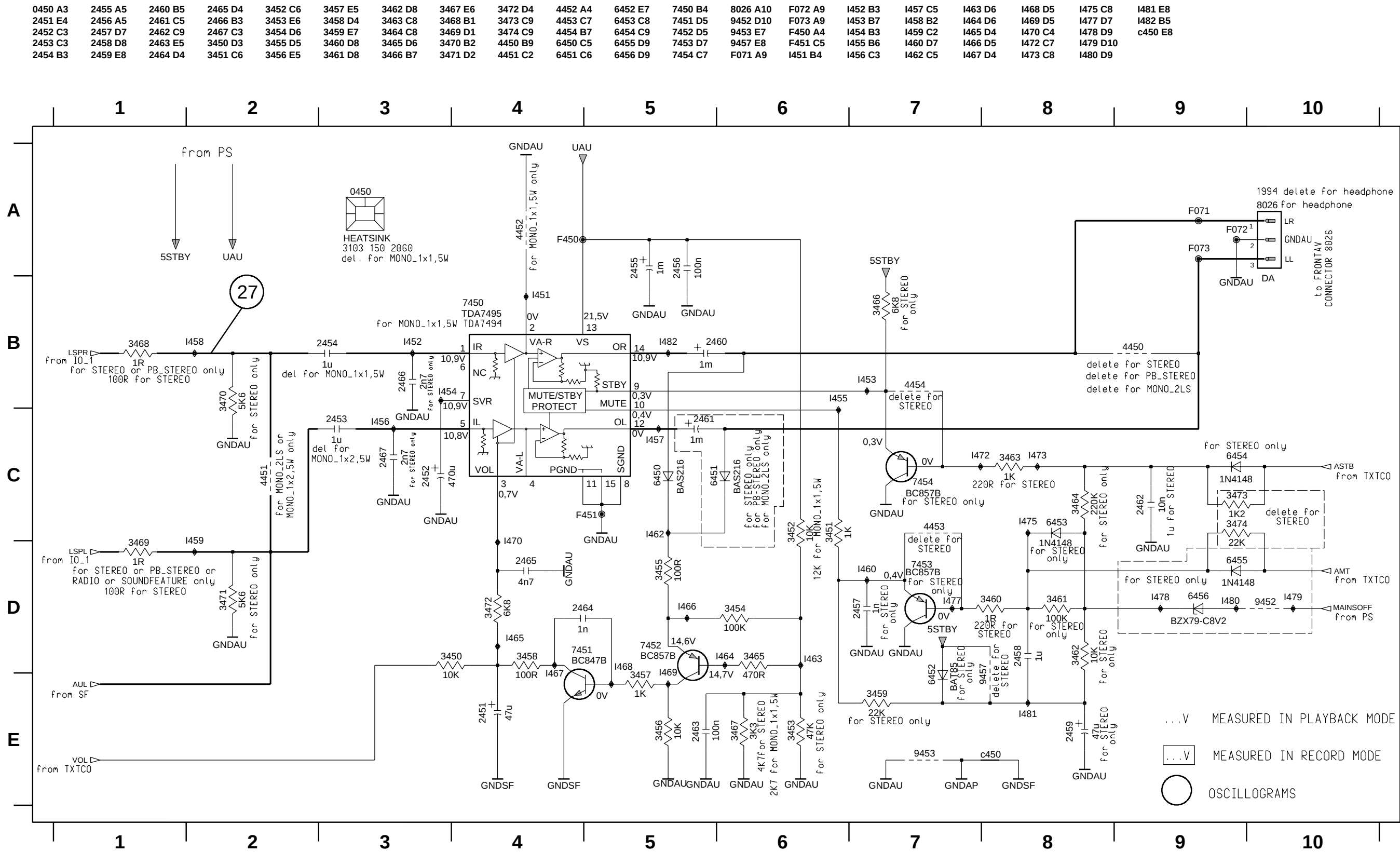
View Selector Audio (SF) - TV Board (TVB)



- 1905 C9
- 2603 E4
- 2604 E3
- 2605 D3
- 2606 C4
- 2607 B4
- 2608 B4
- 3610 E4
- 3611 E3
- 3612 D3
- 3613 C4
- 3614 C4
- 3615 B4
- 4600 C7
- 4601 C2
- 7651 C5
- 8013 E8
- 8025 C2
- F051 C8
- F052 C8
- F053 C8
- F054 D8
- F055 D8
- F056 D8
- F057 D8
- F058 D8
- F059 D8
- F061 D3
- F062 C2
- F063 C2
- F600 B5
- F610 E5
- F611 B4
- F612 B6
- F613 B6
- I601 B4
- I603 B4
- I605 C5
- I607 D3
- I609 E3
- I612 E5

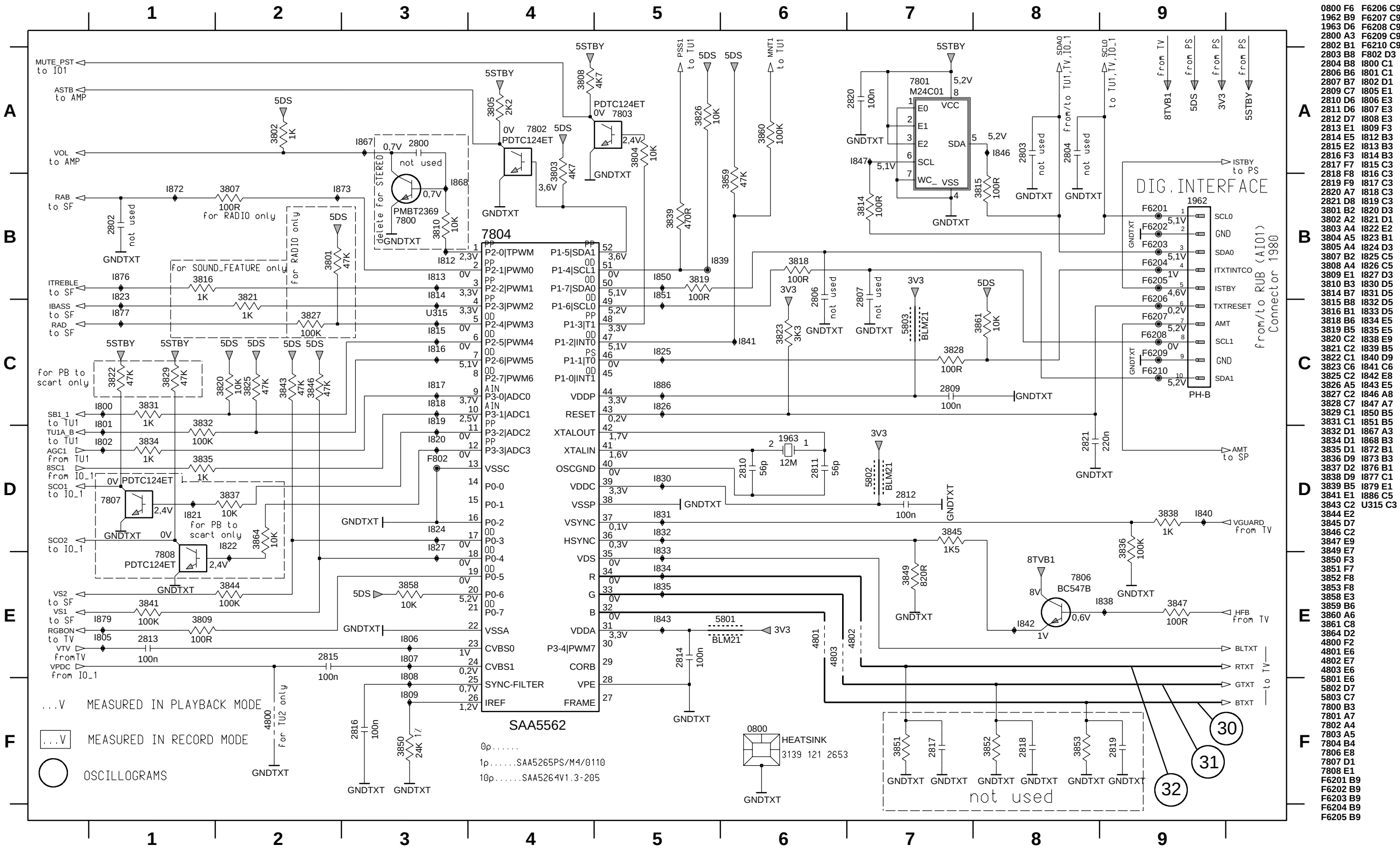
	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Amplifier (AMP) - TV Board (TVB)



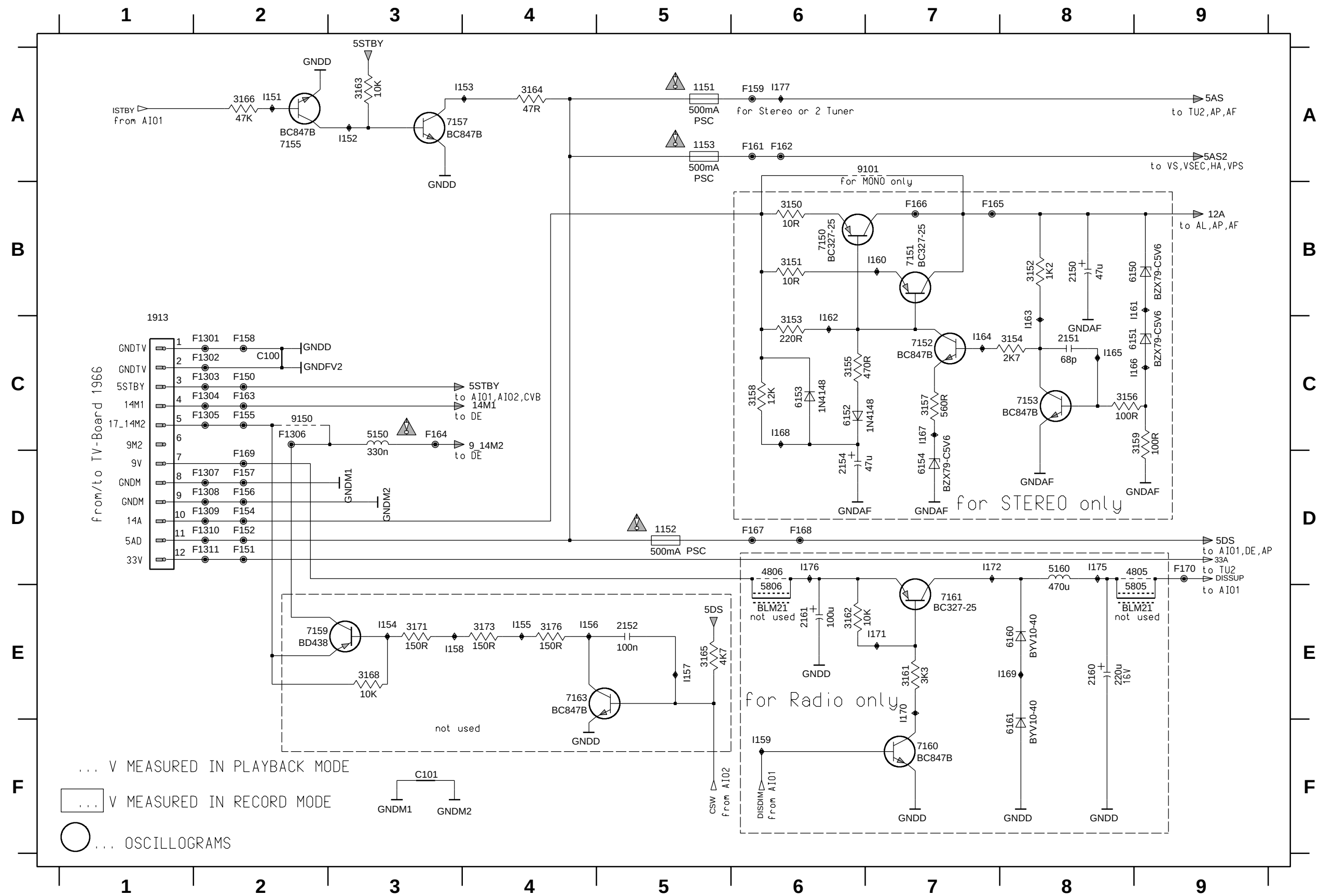
Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25

Teletext Controller (COTV) - TV Board (TVB)



Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11	
3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25		

Power Supply (PS) - Recorder Unit Board (RUB)

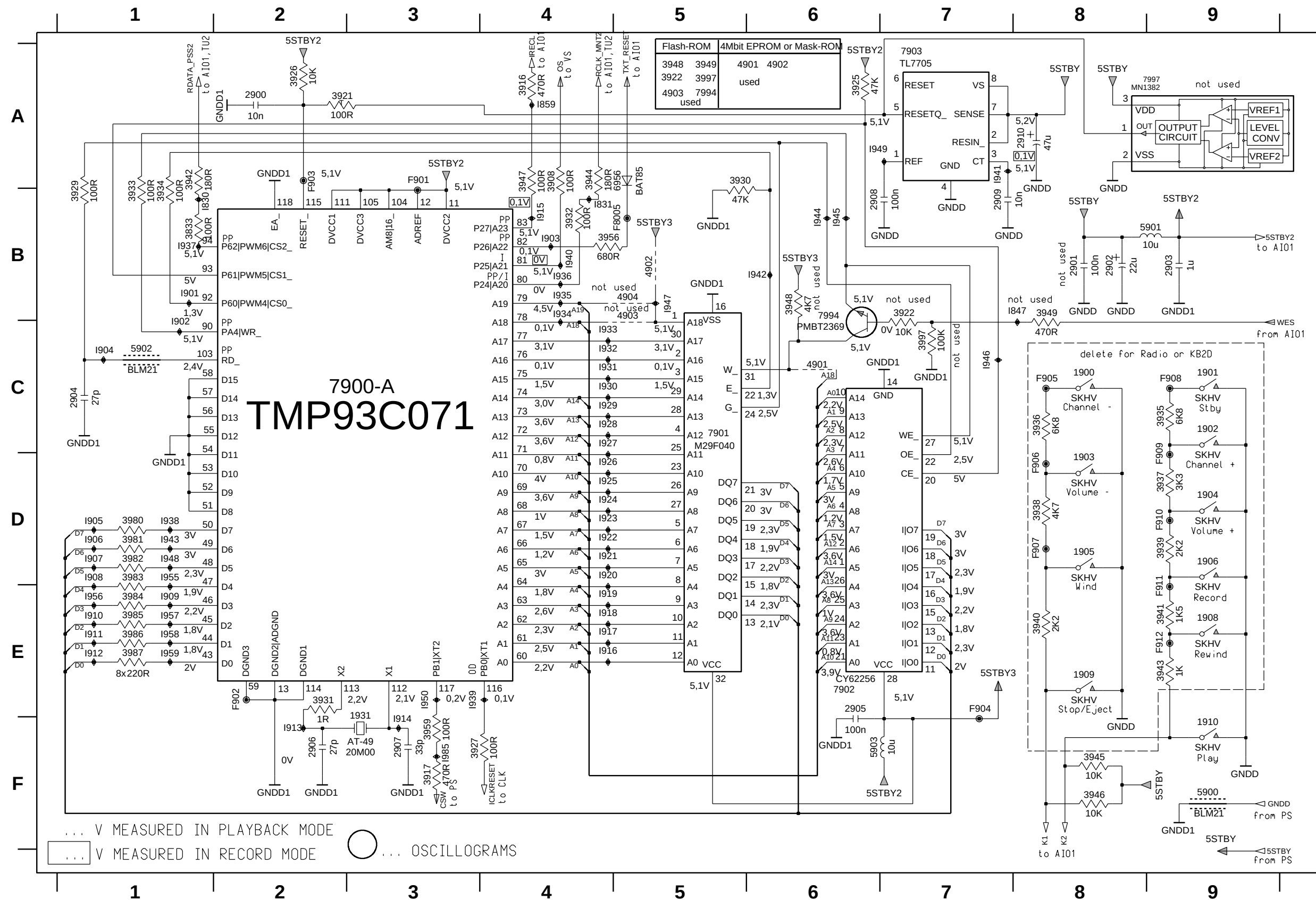


1151 A5	F169 D2
1152 D5	F170 D9
1153 A5	1151 A2
1913 C1	1152 A3
2150 B8	1153 A4
2151 C8	1154 E3
2152 E5	1155 E4
2154 D6	1156 E4
2160 E8	1157 E5
2161 E6	1158 E3
3150 B6	1159 F6
3151 B6	1160 B7
3152 B8	1161 B8
3153 C6	1162 C6
3154 C8	1163 C8
3155 C6	1164 C7
3156 C8	1165 C8
3157 C7	1166 C8
3158 C6	1167 C7
3159 C9	1168 C6
3161 E7	1169 E8
3162 E6	1170 E7
3163 A3	1171 E7
3164 A4	1172 D7
3165 E5	1175 D8
3166 A2	1176 D6
3168 E3	1177 A6
3171 E3	
3173 E4	
3176 E4	
4805 D9	
4806 D6	
5150 C3	
5160 D8	
5805 E9	
5806 E6	
6150 B9	
6151 C9	
6152 C6	
6153 C6	
6154 D7	
6160 E8	
6161 F8	
7150 B6	
7151 B7	
7152 C7	
7153 C8	
7155 A2	
7157 A3	
7159 E3	
7160 F7	
7161 E7	
7163 E4	
9101 A7	
9150 C2	
C100 C2	
C101 F3	
F1301 C2	
F1302 C2	
F1303 C2	
F1304 C2	
F1305 C2	
F1306 C2	
F1307 D2	
F1308 D2	
F1309 D2	
F1310 D2	
F1311 D2	
F150 C2	
F151 D2	
F152 D2	
F154 D2	
F155 C2	
F156 D2	
F157 D2	
F158 C2	
F159 A6	
F161 A6	
F162 A6	
F163 C2	
F164 C3	
F165 B7	
F166 B7	
F167 D6	
F168 D6	

	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

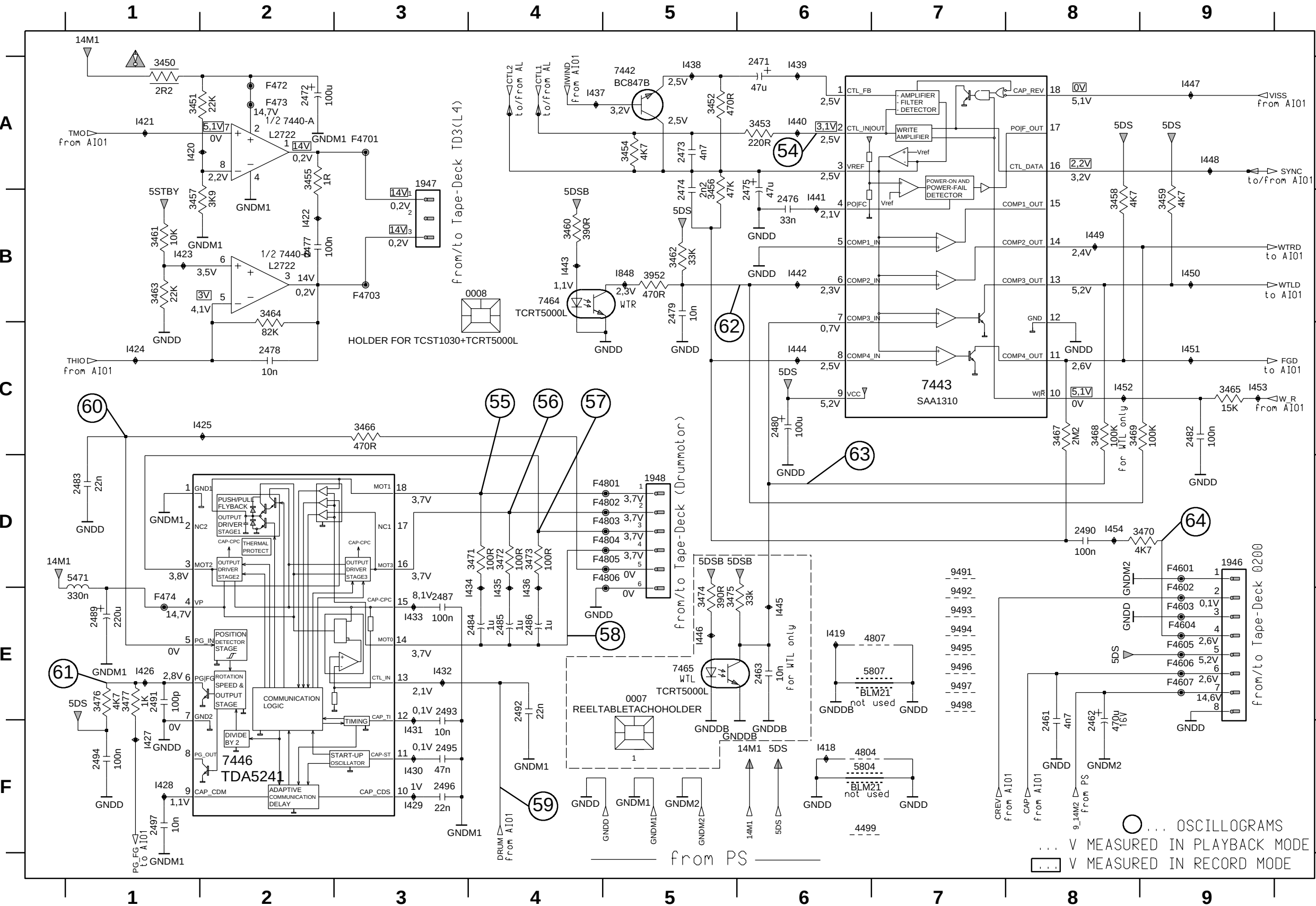
Central Control 2 (AIO2) - Recorder Unit Board (RUB)



1900 C8	F909 D9
1901 C9	F910 D9
1902 C9	F911 E9
1903 D8	F912 E9
1904 D9	I830 B1
1905 D8	I831 B4
1906 D9	I847 B8
1908 E9	I859 A4
1909 E8	I901 B1
1910 F9	I902 C1
1931 F3	I903 B4
2900 A2	I904 C1
2901 B8	I905 D1
2902 B8	I906 D1
2903 B9	I907 D1
2904 C1	I908 D1
2905 E6	I909 E1
2906 F2	I910 E1
2907 F3	I911 E1
2908 B6	I912 E1
2909 B7	I913 F2
2910 A8	I914 F3
3833 B1	I915 B4
3908 A4	I916 E4
3916 A4	I917 E4
3917 F3	I918 E4
3921 A2	I919 E4
3922 B7	I920 D4
3925 A6	I921 D4
3926 A2	I922 D4
3927 F3	I923 D4
3929 B1	I924 D4
3930 A5	I925 D4
3931 E2	I926 D4
3932 B4	I927 C4
3933 B1	I928 C4
3934 B1	I929 C4
3935 C9	I930 C4
3936 C8	I931 C4
3937 D9	I932 C4
3938 D8	I933 C4
3939 D9	I934 B4
3940 E8	I935 B4
3941 E9	I936 B4
3942 A1	I937 B1
3943 E9	I938 D1
3944 A4	I939 E3
3945 F8	I940 B4
3946 F8	I941 A7
3947 A4	I942 B6
3948 B6	I943 D1
3949 B8	I944 B6
3956 B4	I945 B6
3959 F3	I946 C7
3980 D1	I947 B5
3981 D1	I948 D1
3982 D1	I949 A6
3983 D1	I950 E3
3984 E1	I955 D1
3985 E1	I956 E1
3986 E1	I957 E1
3987 E1	I958 E1
3997 C7	I959 E1
4901 C6	I985 F3
4902 B5	
4903 B5	
4904 B5	
5900 F9	
5901 B9	
5902 C1	
5903 F6	
6956 A5	
7900-A C2	
7901 C5	
7902 E6	
7903 A7	
7994 B6	
7997 A9	
F8005 B5	
F901 A3	
F902 E2	
F903 A2	
F904 E7	
F905 C8	
F906 D8	
F907 D8	
F908 C9	

	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

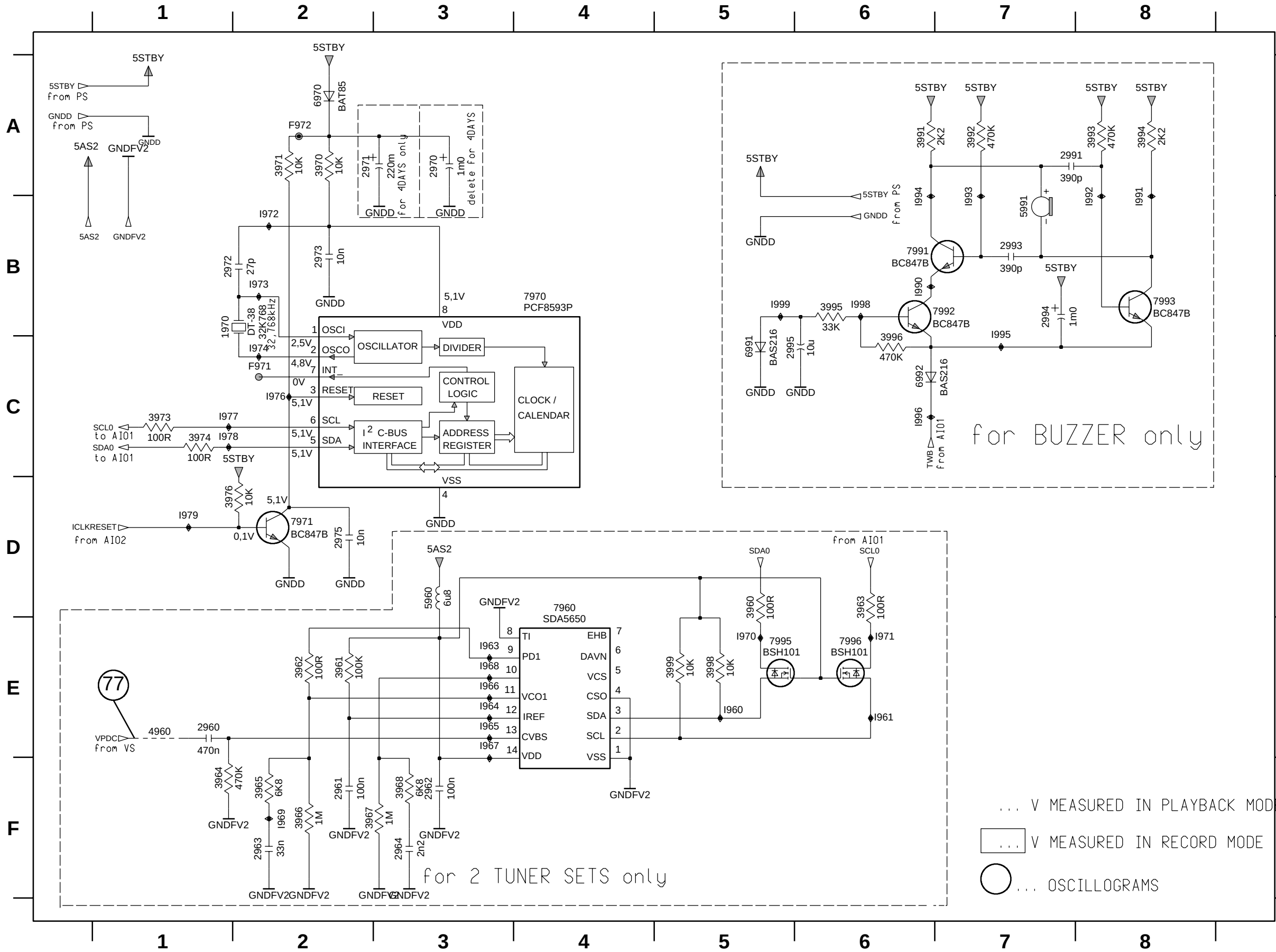
Deck Electronics (DE) - Recorder Unit Board (RUB)



0007 E5	F4606 E9
0008 B3	F4607 E9
1946 D9	F4701 A3
1947 A3	F4703 B3
1948 D5	F472 A2
2461 F8	F473 A2
2462 F8	F474 E1
2463 E6	F4801 D5
2471 A6	F4802 D5
2472 A2	F4803 D5
2473 A5	F4804 D5
2474 B5	F4805 D5
2475 B6	F4806 D5
2476 B6	I418 F6
2477 B2	I419 E6
2478 C2	I420 A1
2479 B5	I421 A1
2480 C6	I422 B2
2482 C9	I423 B1
2483 D1	I424 C1
2484 E4	I425 C2
2485 E4	I426 E1
2486 E4	I427 F1
2487 E3	I428 F1
2489 E1	I429 F3
2490 D8	I430 F3
2491 E1	I431 F3
2492 E4	I432 E3
2493 E3	I433 E3
2494 F1	I434 E4
2495 F3	I435 E4
2496 F3	I436 E4
2497 F1	I437 A4
3450 A1	I438 A5
3451 A1	I439 A6
3452 A5	I440 A6
3453 A6	I441 B6
3454 A5	I442 B6
3455 A2	I443 B4
3456 B5	I444 C6
3457 B1	I445 E6
3458 B8	I446 E5
3459 B9	I447 A9
3460 B4	I448 A9
3461 B1	I449 B8
3462 B5	I450 B9
3463 B1	I451 C9
3464 B2	I452 C8
3465 C9	I453 C9
3466 C3	I454 D8
3467 C8	I455 B5
3468 C8	
3469 C8	
3470 D9	
3471 D4	
3472 D4	
3473 D4	
3474 E5	
3475 E5	
3476 E1	
3477 E1	
3952 B5	
4499 F6	
4804 F6	
4807 E7	
5471 D1	
5804 F6	
5807 E7	
7440-A A2	
7440-B B2	
7442 A5	
7443 C7	
7446 F2	
7464 B4	
7465 E5	
9491 D7	
9492 E7	
9493 E7	
9494 E7	
9495 E7	
9496 E7	
9497 E7	
9498 E7	
F4601 D9	
F4602 E9	
F4603 E9	
F4604 E9	
F4605 E9	

Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

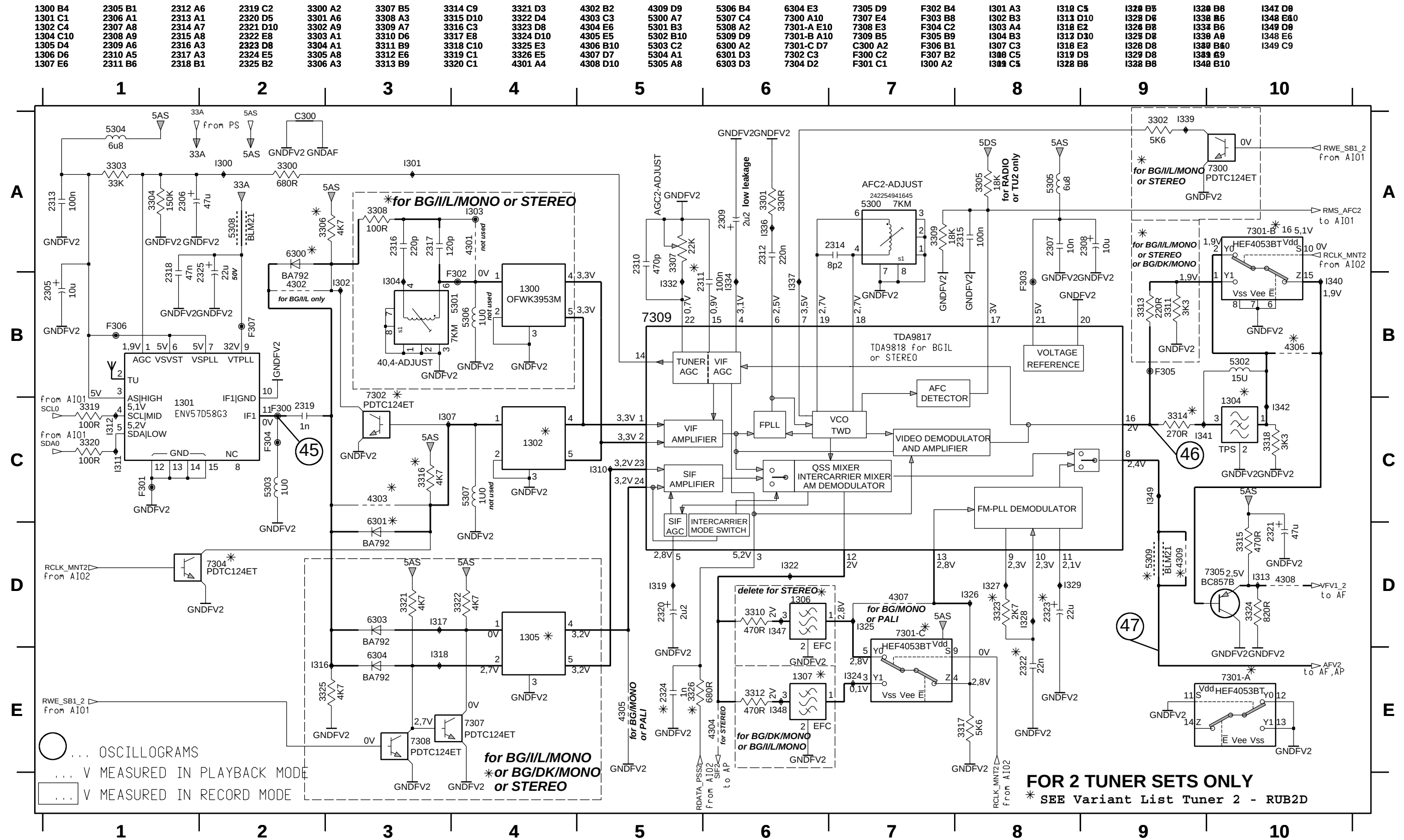
Clock, VPS, Buzzer (CVB) - Recorder Unit Board (RUB)



- 1970 B1
- 2960 E1
- 2961 F2
- 2962 F3
- 2963 F2
- 2964 F3
- 2970 A3
- 2971 A2
- 2972 B1
- 2973 B2
- 2975 D2
- 2991 A7
- 2993 B7
- 2994 B7
- 2995 C5
- 3960 D5
- 3961 E2
- 3962 E2
- 3963 D6
- 3964 F1
- 3965 F2
- 3966 F2
- 3967 F2
- 3968 F3
- 3970 A2
- 3971 A2
- 3973 C1
- 3974 C1
- 3976 D1
- 3991 A6
- 3992 A7
- 3993 A8
- 3994 A8
- 3995 B6
- 3996 C6
- 3998 E5
- 3999 E5
- 4960 E1
- 5960 D3
- 5991 B7
- 6970 A2
- 6991 C5
- 6992 C6
- 7960 D4
- 7970 B4
- 7971 D2
- 7991 B6
- 7992 B6
- 7993 B8
- 7995 E5
- 7996 E6
- F971 C2
- F972 A2
- I960 E5
- I961 E6
- I963 E3
- I964 E3
- I965 E3
- I966 E3
- I967 E3
- I968 E3
- I969 F2
- I970 E5
- I971 E6
- I972 B2
- I973 B2
- I974 C2
- I976 C2
- I977 C1
- I978 C1
- I979 D1
- I990 B6
- I991 B8
- I992 B8
- I993 B7
- I994 B6
- I995 B7
- I996 C6
- I998 B6
- I999 B5

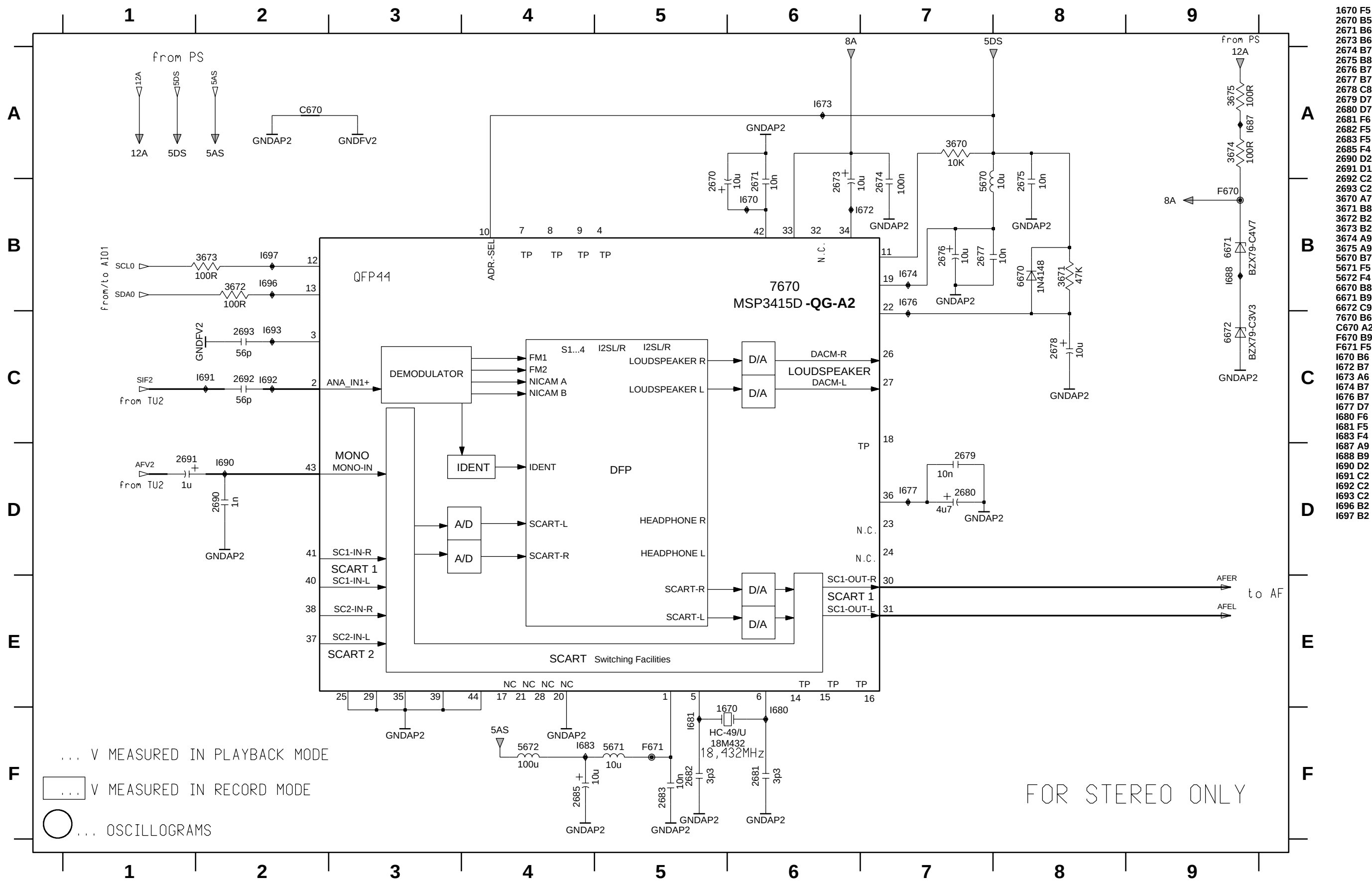
Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25

Tuner 2 (TU2) - Recorder Unit Board (RUB)



	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

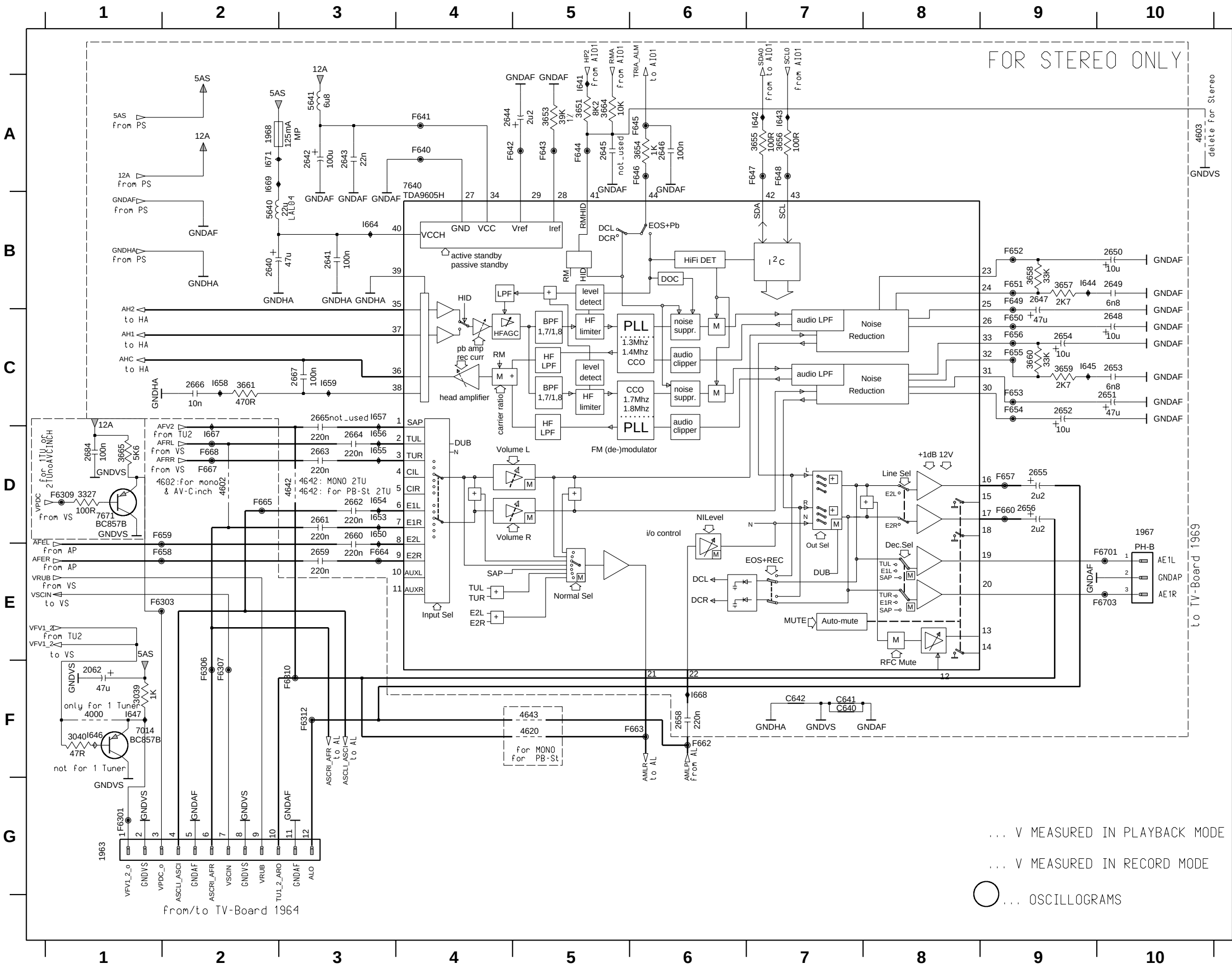
Sound Processing (AP) - Recorder Unit Board (RUB)



- 1670 F5
- 2670 B5
- 2671 B6
- 2673 B6
- 2674 B7
- 2675 B8
- 2676 B7
- 2677 B7
- 2678 C8
- 2679 D7
- 2680 D7
- 2681 F6
- 2682 F5
- 2683 F5
- 2685 F4
- 2690 D2
- 2691 D1
- 2692 C2
- 2693 C2
- 3670 A7
- 3671 B8
- 3672 B2
- 3673 B2
- 3674 A9
- 3675 A9
- 5670 B7
- 5671 F5
- 5672 F4
- 6670 B8
- 6671 B9
- 6672 C9
- 7670 B6
- C670 A2
- F670 B9
- F671 F5
- I670 B6
- I672 B7
- I673 A6
- I674 B7
- I676 B7
- I677 D7
- I680 F6
- I681 F5
- I683 F4
- I687 A9
- I688 B9
- I690 D2
- I691 C2
- I692 C2
- I693 C2
- I696 B2
- I697 B2

Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25

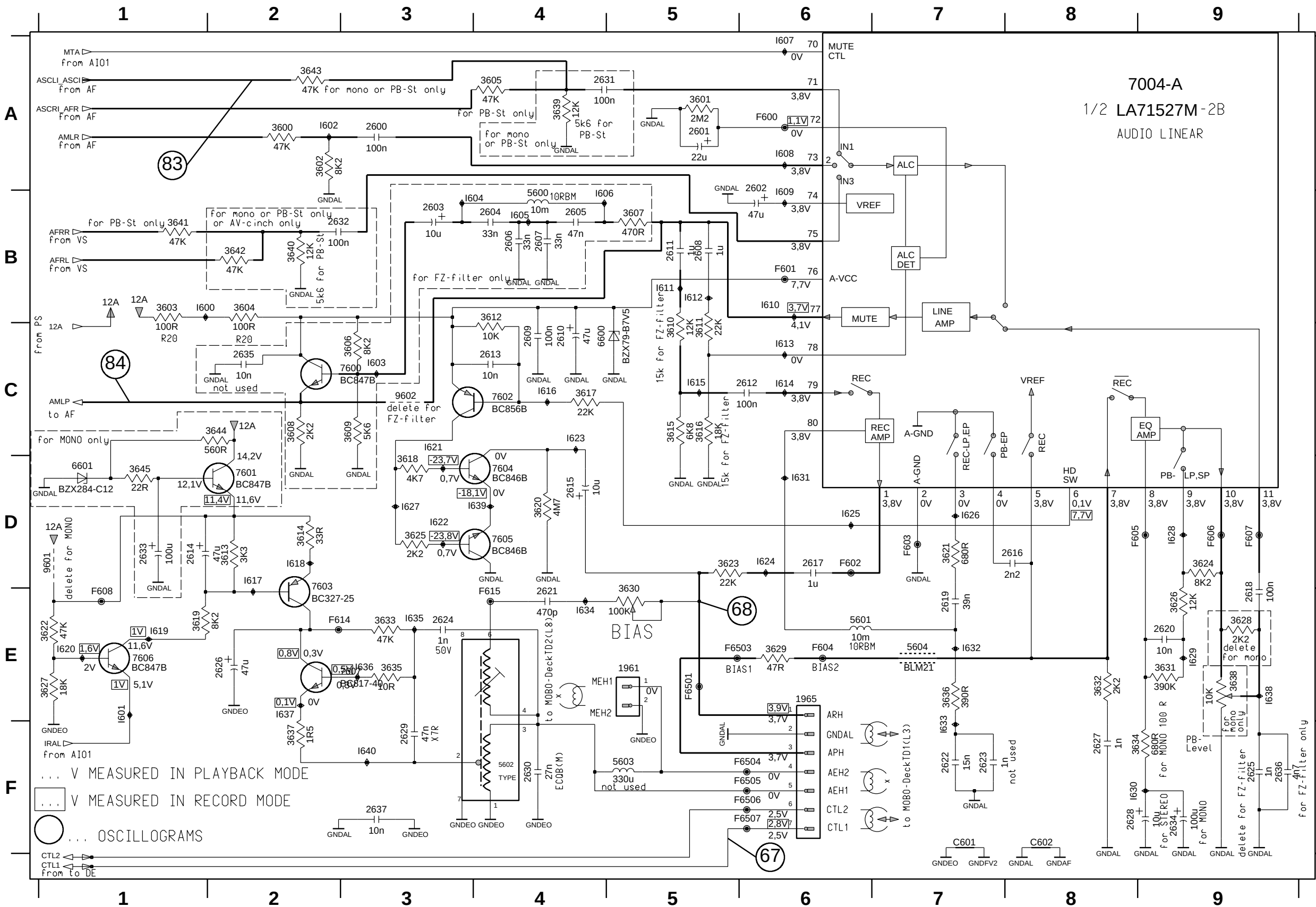
FM-Audio Processing (AF) - Recorder Unit Board (RUB)



- 1963 G1
- 1967 D10
- 1968 A2
- 2062 F1
- 2640 B2
- 2641 B3
- 2642 A3
- 2643 A3
- 2644 A4
- 2645 A5
- 2646 A6
- 2647 B9
- 2648 C10
- 2649 B10
- 2650 B10
- 2651 C10
- 2652 C9
- 2653 C10
- 2654 C9
- 2655 D9
- 2656 D9
- 2658 F6
- 2659 E3
- 2660 D3
- 2661 D3
- 2662 D3
- 2663 D3
- 2664 D3
- 2665 C3
- 2666 C2
- 2667 C3
- 2684 D1
- 3039 F1
- 3040 F1
- 3327 D1
- 3651 A5
- 3653 A5
- 3654 A6
- 3655 A7
- 3656 A7
- 3657 B9
- 3658 B9
- 3659 C9
- 3660 C9
- 3661 C2
- 3664 A5
- 3665 D1
- 4000 F1
- 4602 D2
- 4603 A10
- 4620 F5
- 4623 D3
- 4643 F5
- 5640 B2
- 5641 A3
- 7014 F1
- 7640 A4
- 7671 D1
- C640 F7
- C641 F7
- C642 F7
- F6301 G1
- F6303 E2
- F6306 F2
- F6307 D1
- F6309 D1
- F6310 F3
- F6312 F3
- F640 A4
- F641 A4
- F642 A4
- F643 A5
- F644 A5
- F645 A6
- F646 A6
- F647 A7
- F648 A7
- F649 B9
- F650 C9
- F651 B9
- F652 B9
- F653 C9
- F654 C9
- F655 C9
- F656 C9
- F657 D9
- F658 E2
- F659 D2
- F660 D9
- F662 F6
- F663 F6
- F664 E3
- F665 D2
- F667 D2
- F668 D2
- F6701 E10
- F6703 E10
- I641 A5
- I642 A7
- I643 A7
- I644 B9
- I645 C9
- I646 F1
- I647 F1
- I650 D3
- I653 D3
- I654 D3
- I655 D3
- I656 D3
- I657 C3
- I658 C2
- I659 C3
- I664 B3
- I667 D2
- I668 F6
- I669 A2
- I671 A2

Interconnections		
Circuit	page	
ACO	3-29	
AF	3-22	
AF2	3-30	
AI01	3-16	
AI02	3-17	
AL	3-23	
AMP	3-13	
AP	3-21	
COTV	3-14	
CVB	3-19	
DE	3-18	
DOSCD	3-32	
HA	3-26	
HPAV	3-27	
IO_1	3-11	
KB1D	3-33	
KB2D	3-34	
LS	3-8	
MFSWD	3-34	
PS (RUB)	3-15	
PS (TVB)	3-7	
PT	3-28	
SF	3-12	
SFD	3-31	
TU1	3-9	
TU2	3-20	
TV	3-10	
VS	3-24	
VSEC	3-25	

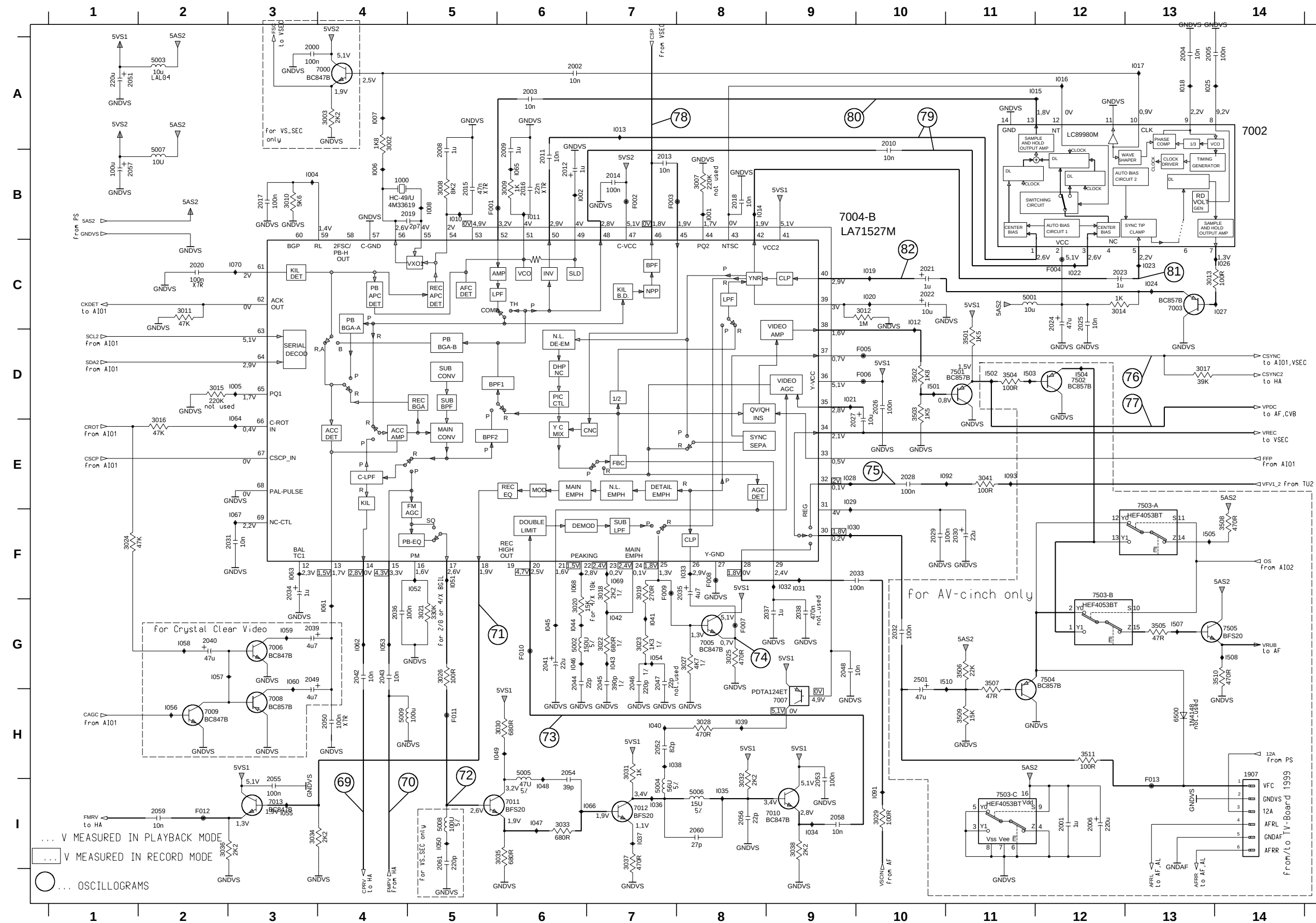
Linear Audio Processing (AL) - Recorder Unit Board (RUB)



- 1961 E5
- 1965 E6
- 2600 A3
- 2601 A5
- 2602 B6
- 2603 B3
- 2604 B4
- 2605 B4
- 2606 B4
- 2607 B4
- 2608 B5
- 2609 C4
- 2610 C4
- 2611 B5
- 2612 C6
- 2613 C4
- 2614 D1
- 2615 D4
- 2616 D8
- 2617 D6
- 2618 E9
- 2619 E7
- 2620 E9
- 2621 E4
- 2622 F7
- 2623 F7
- 2624 F3
- 2625 F9
- 2626 E2
- 2627 F8
- 2628 F8
- 2629 F3
- 2630 F4
- 2631 A4
- 2632 D1
- 2633 D1
- 2634 F9
- 2635 C2
- 2636 F9
- 2637 F3
- 3600 A2
- 3601 A5
- 3602 A2
- 3603 B1
- 3604 B2
- 3605 A4
- 3606 C3
- 3607 B5
- 3608 C2
- 3609 C3
- 3610 C5
- 3611 C5
- 3612 B4
- 3613 D2
- 3614 D2
- 3615 C5
- 3616 C5
- 3617 C4
- 3618 D3
- 3619 E1
- 3620 D4
- 3621 D7
- 3622 E1
- 3623 D5
- 3624 D9
- 3625 D3
- 3626 E9
- 3627 E1
- 3628 E9
- 3629 E6
- 3630 D5
- 3631 E9
- 3632 E8
- 3633 E3
- 3634 F9
- 3635 E3
- 3636 E7
- 3637 F2
- 3638 E9
- 3639 A4
- 3640 B2
- 3641 B1
- 3642 B2
- 3643 A2
- 3644 C2
- 3645 D1
- 5600 B4
- 5601 E6
- 5602 F4
- 5603 F5
- 5604 E7
- 5600 C4
- 6601 D1
- 7004-A A8
- 7600 C2
- 7601 D2
- 7602 C4
- 7603 E2
- 7604 D4
- 7605 D4
- 7606 E1
- 7607 E2
- 9601 D1
- 9602 C3
- C601 F7
- C602 F8
- F600 A6
- F601 B6
- F602 D6
- F603 D7
- F604 E6
- F605 D9
- F606 D9
- F607 D9
- F608 E1
- F614 E2
- F615 E4
- F6501 E5
- F6503 E5
- F6504 F6
- F6505 F6
- F6506 F6
- F6507 F6
- I600 B1
- I601 E1
- I602 A2
- I603 C3
- I604 B4
- I605 B4
- I606 B4
- I607 A6
- I608 A6
- I609 B6
- I610 B6
- I611 B5
- I612 B5
- I613 C6
- I614 C6
- I615 C5
- I616 C4
- I617 D2
- I618 D2
- I619 E1
- I620 E1
- I621 C3
- I622 D3
- I623 C4
- I624 D6
- I625 D6
- I626 D7
- I627 D3
- I628 D9
- I629 E9
- I630 F8
- I631 D6
- I632 E7
- I633 F7
- I634 E4
- I635 E3
- I636 E3
- I637 E2
- I638 E9
- I639 D4
- I640 F3

Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

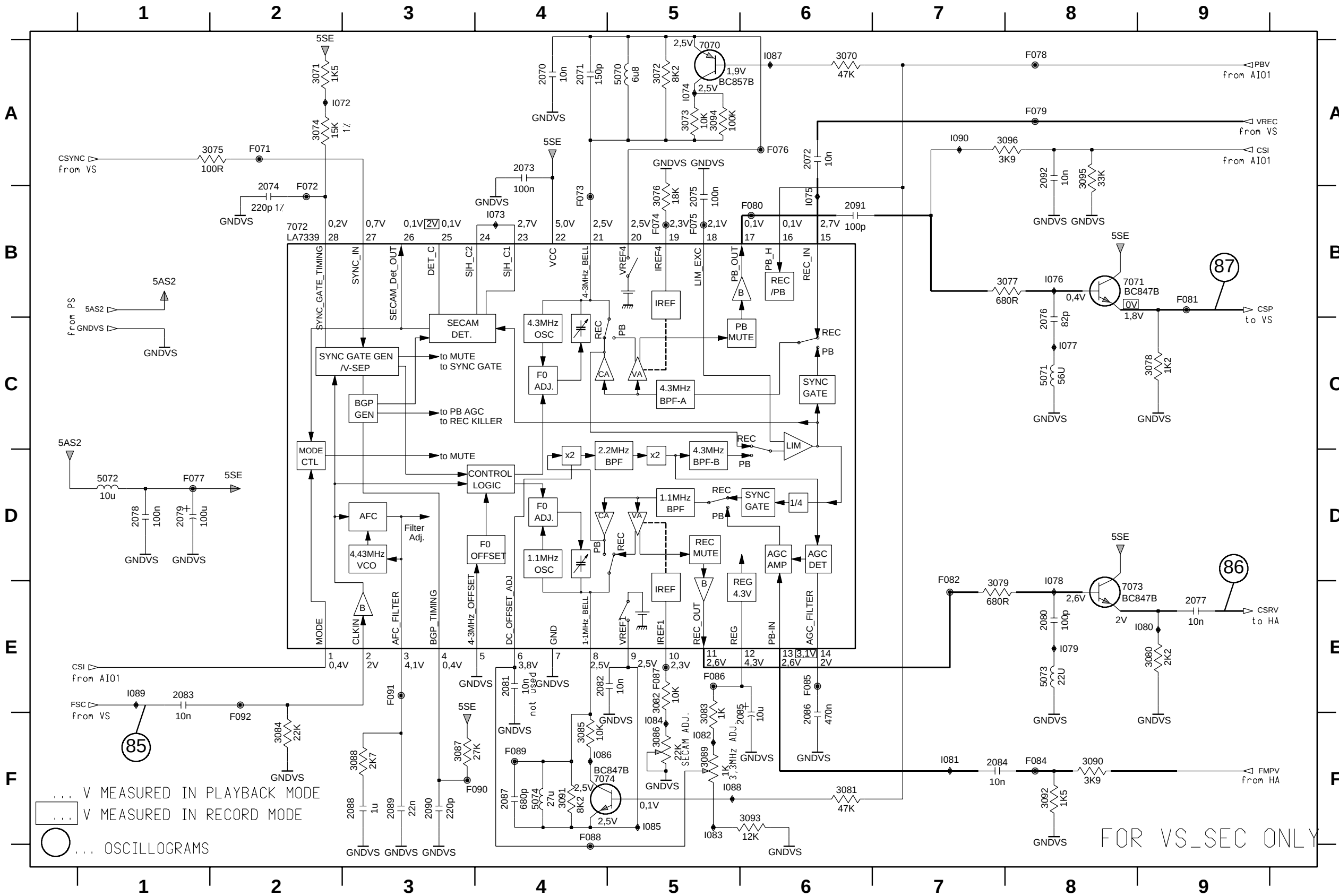
Video Signal Processing (VS) - Recorder Unit Board (RUB)



1000	7501 D1
1907 H14	D502 D12
2000 A3	7503-A E13
2002 A12	7503-B F12
2002 A6	7504 D11
2003 A6	7504 G12
2004 A13	7505 G14
2005 A13	F001 B5
2006 B7	F002 B7
2008 B5	F003 B7
2009 B6	F004 C12
2010 G10	F005 D10
2011 B6	F006 D10
2012 B6	F007 G8
2013 B7	F008 F8
2014 B7	F009 F7
2015 B5	F010 G6
2016 B6	F011 H5
2017 B3	F012 B2
2018 B8	F013 A13
2019 B5	F001 B8
2020 C2	I002 B6
2021 C10	I004 B3
2022 C10	I005 B3
2023 C12	I006 B4
2024 C12	I007 A4
2025 C12	I008 B5
2026 C10	I009 A13
2027 E9	I011 B6
2028 E10	I012 C10
2029 F10	I013 A7
2030 F10	I014 B7
2031 F3	I015 A12
2032 G10	I016 A12
2033 F10	I017 A13
2034 F3	I018 B7
2035 F8	I019 C10
2036 G4	I020 D10
2037 G9	I021 D9
2038 G9	I022 C12
2039 G3	I023 C13
2040 G2	I024 C13
2041 G6	I025 A13
2042 G4	I026 C14
2043 G4	I027 C14
2044 G6	I028 E9
2045 G7	I029 E9
2046 G7	I030 F9
2047 G7	I031 F9
2048 G9	I032 F9
2049 G3	I033 F8
2050 H4	I034 B8
2051 A1	I035 I9
2052 H7	I036 I7
2053 I9	I037 I7
2054 H6	I038 H7
2055 I3	I039 H8
2056 I8	I040 H7
2057 B1	I041 G7
2058 I9	I042 G6
2059 I2	I043 G7
2060 I8	I044 G6
2061 I5	I045 G6
2062 G10	I046 G6
2063 A4	I047 I6
2003 A4	I048 I6
2007 B8	I049 H8
2008 B5	I050 I5
2009 B6	I051 F5
2010 B3	I052 F5
2011 C2	I053 G4
2012 C10	I054 G7
2013 C13	I055 I3
2014 C12	I056 H2
2015 D2	I057 G2
2016 D2	I058 G2
2017 D13	I059 G3
2018 F7	I060 G3
2019 F7	I061 G4
2020 G6	I062 G4
2021 G5	I063 F3
2022 G7	I064 D3
2023 G7	I065 B6
2024 G2	I066 I7
2025 G8	I067 F3
2026 G5	I068 F6
2027 G8	I069 F7
2028 H7	I070 C3
2029 I10	I091 I10
2030 H6	I092 E11
2031 H7	I093 E11
2032 I8	I094 D10
2033 I6	I502 I11
2034 I3	I503 D11
2035 I6	I504 D12
2036 I2	I505 F13
2037 I7	I507 G13
2038 I9	I508 G14
2041 E11	I510 G11
2042 E11	
2043 D10	
2044 D10	
2045 D11	
2046 G13	
2047 G11	
2048 F14	
2049 H11	
2050 G14	
2051 H12	
2052 C11	
2053 A2	
2054 I7	
2055 H6	
2056 I8	
2057 B2	
2058 I5	
2059 H4	
2060 H3	
2061 H2	
2062 H2	
2063 H3	
2064 H9 B9	
2065 G8	
2066 G3	
2067 H8	
2068 H9	
2069 H2	
2070 H16	
2071 I7	
2072 I7	
2073 I3	

	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

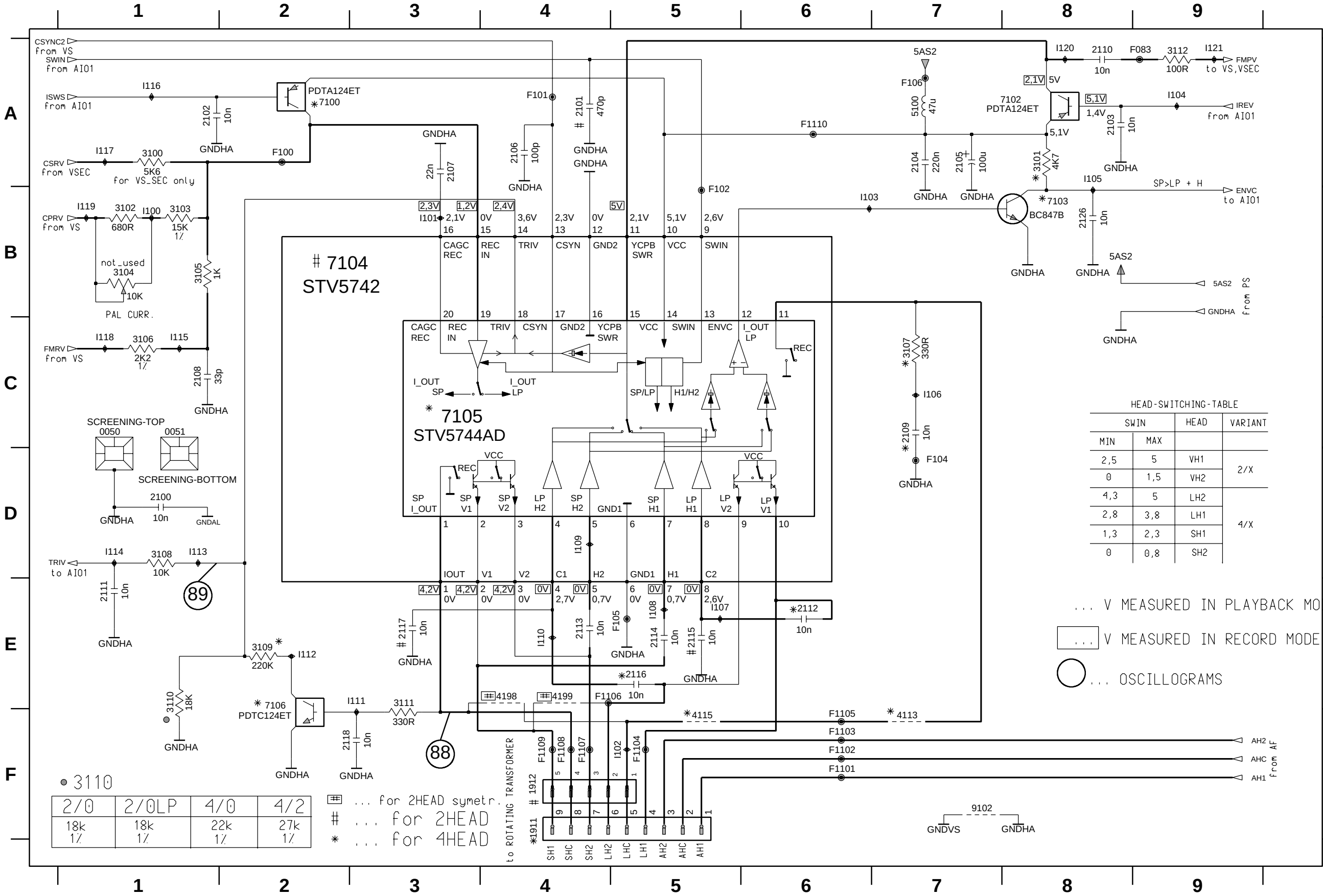
SECAM Processing (VSEC) - Recorder Unit Board (RUB)



- 2070 A4
- 2071 A4
- 2072 A6
- 2073 A4
- 2074 B2
- 2075 B5
- 2076 C8
- 2077 E9
- 2078 D1
- 2079 D1
- 2080 E8
- 2081 E4
- 2082 E4
- 2083 E1
- 2084 F7
- 2085 F6
- 2086 F6
- 2087 F4
- 2088 F3
- 2089 F3
- 2090 F3
- 2091 B6
- 2092 A8
- 3070 A6
- 3071 A2
- 3072 A5
- 3073 A5
- 3074 A2
- 3075 A2
- 3076 B5
- 3077 B8
- 3078 C9
- 3079 E7
- 3080 E9
- 3081 F6
- 3082 E5
- 3083 F5
- 3084 F2
- 3085 F4
- 3086 F5
- 3087 F3
- 3088 F3
- 3089 F5
- 3090 F8
- 3091 F4
- 3092 F8
- 3093 F6
- 3094 A5
- 3095 A8
- 3096 A8
- 5070 A5
- 5071 C8
- 5072 D1
- 5073 E8
- 5074 F4
- 7070 A5
- 7071 B8
- 7072 B2
- 7073 E8
- 7074 F5
- F071 A2
- F072 B2
- F073 B4
- F074 B5
- F075 B5
- F076 A6
- F077 D1
- F078 A8
- F079 A8
- F080 B6
- F081 B9
- F082 D7
- F084 F8
- F085 E6
- F086 E5
- F087 E5
- F088 F4
- F089 F4
- F090 F4
- F091 E3
- F092 F2
- I072 A2
- I073 B4
- I074 A5
- I075 B6
- I076 B8
- I077 C8
- I078 D8
- I079 E8
- I080 E9
- I081 F7
- I082 F5
- I083 F5
- I084 F5
- I085 F5
- I086 F4
- I087 A6
- I088 F5
- I089 E1
- I090 A7

Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25

Head Amplifier (HA) - Recorder Unit Board (RUB)



HEAD-SWITCHING-TABLE			
SWIN		HEAD	VARIANT
MIN	MAX		
2,5	5	VH1	2/X
0	1,5	VH2	
4,3	5	LH2	4/X
2,8	3,8	LH1	
1,3	2,3	SH1	
0	0,8	SH2	

... V MEASURED IN PLAYBACK MODE

... V MEASURED IN RECORD MODE

... OSCILLOGRAMS

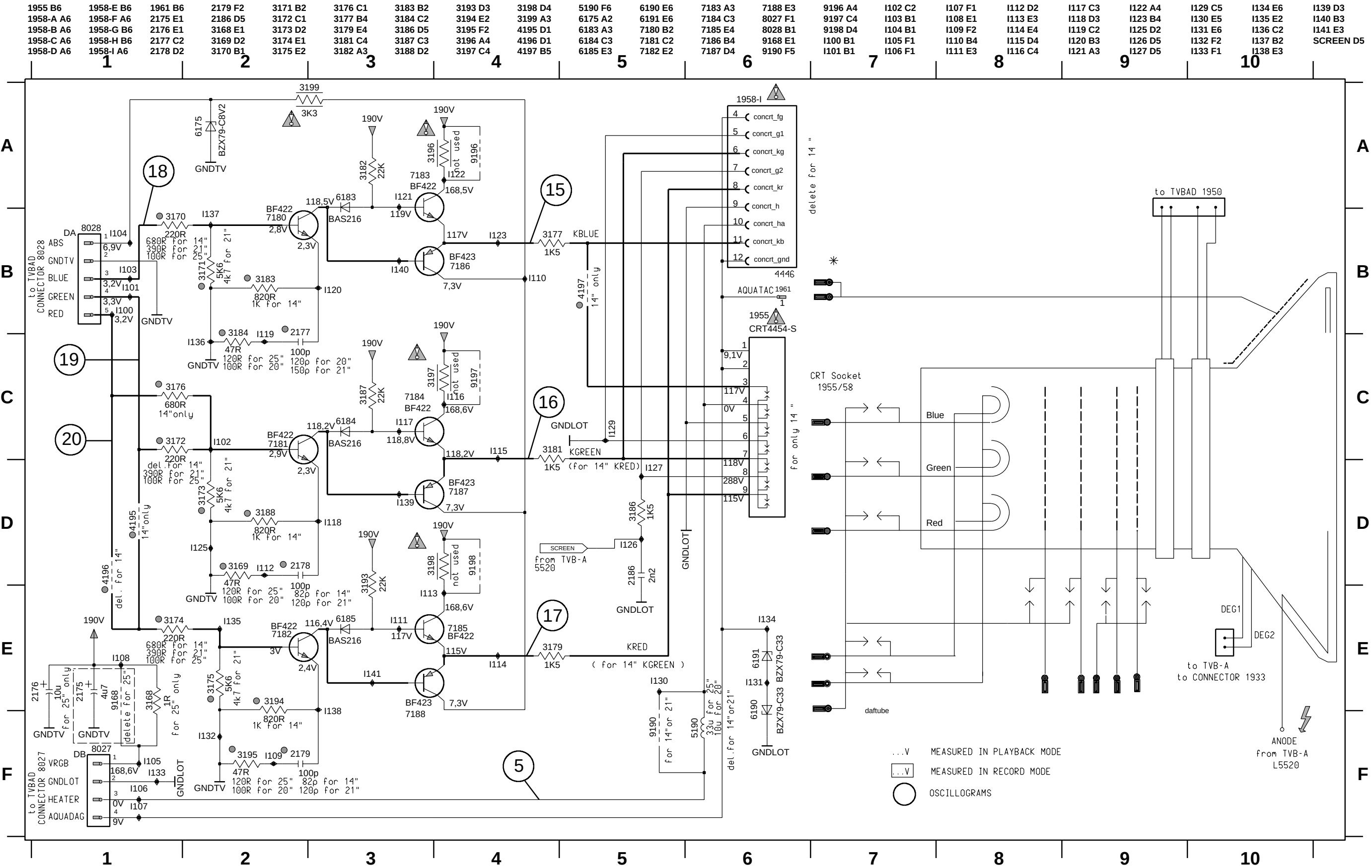
Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

0050 C1
0051 C1
1911 F4
1912 F4
2100 D1
2101 A4
2102 A1
2103 A8
2104 A7
2105 A7
2106 A4
2107 A3
2108 C1
2109 C7
2110 A8
2111 E1
2112 E6
2113 E4
2114 E5
2115 E5
2116 E5
2117 E3
2118 F2
2126 B8
3100 A1
3101 A8
3102 B1
3103 B1
3104 B1
3105 B1
3106 C1
3107 C7
3108 D1
3109 E2
3110 E1
3111 E3
3112 A9
4113 F7
4115 F5
4198 E4
4199 E4
5100 A7
7100 A2
7102 A8
7103 B8
7104 B2
7105 C3
7106 E2
9102 F7
F083 A9
F100 A2
F101 A4
F102 B5
F104 D7
F105 E5
F106 A7
F1101 F6
F1102 F6
F1103 F6
F1104 F5
F1105 F6
F1106 E4
F1107 F4
F1108 F4
F1109 F4
F1110 A6
I100 B1
I101 B3
I102 F5
I103 B6
I104 A9
I105 A8
I106 C7
I107 E5
I108 E5
I109 D4
I110 E4
I111 E3
I112 E2
I113 D1
I114 D1
I115 C1
I116 A1
I117 A1
I118 C1
I119 B1
I120 A8
I121 A9

1992-A D1	I401 A4
1992-B C1	I402 D5
1992-C F1	I403 C5
1993-A E2	I404 C4
1993-B D2	I405 C5
1995 F2	I406 E7
1996 B2	I407 C6
1997 B3	I408 C4
1998 A1	I409 E4
1999 B8	I410 F4
2400 B4	I411 D6
2401 B4	I413 D4
2402 C5	I414 D5
2403 C4	
2404 B6	
2405 E4	
2406 D5	
2407 D7	
2408 E7	
3400 B4	
3401 B4	
3402 A5	
3403 A5	
3404 B5	
3405 C5	
3406 C4	
3407 C5	
3408 C6	
3409 D4	
3410 E5	
3411 D5	
3412 E5	
3413 E6	
3414 F4	
3415 D3	
3416 D3	
3417 E7	
3418 A5	
3419 A6	
3420 C5	
3421 D5	
4400 C6	
4401 D6	
4402 B7	
6402 C4	
6403 C4	
6404 D4	
6405 E4	
6406 F4	
6407 F4	
7400 C6	
7401 D6	
8025 B8	
8026 A8	
F920 B8	
F921 B8	
F922 B8	
F923 A8	
F924 A8	
F925 A8	
F951 F2	
F952 F2	
F953 F2	
F954 F2	
F955 F2	
F961 B2	
F963 B2	
F971 B3	
F973 B3	
F991 C8	
F992 C8	
F993 C8	
F994 C8	
F995 C8	
F996 C8	
I400 A4	

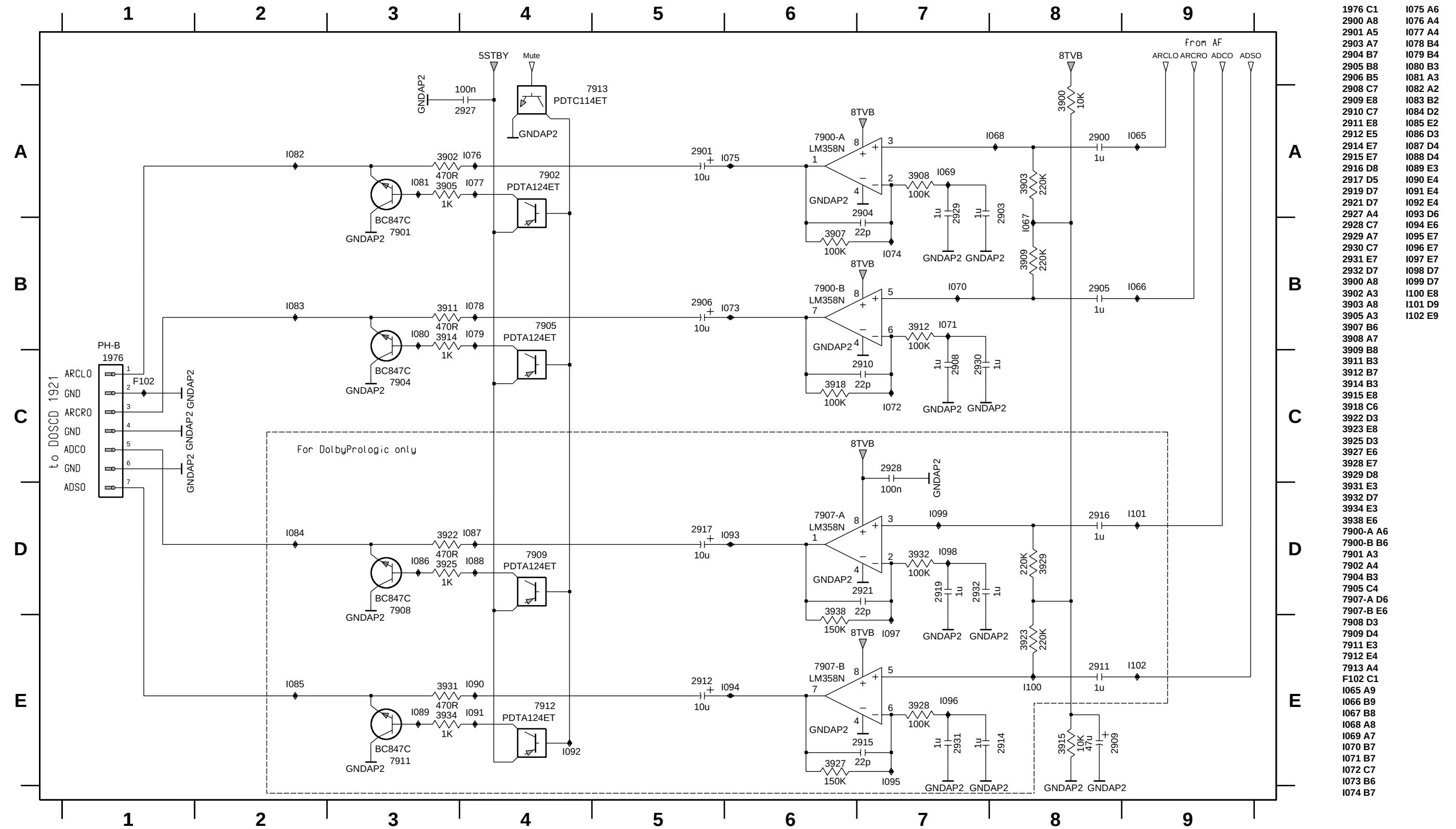
	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

CRT-Board (PT)



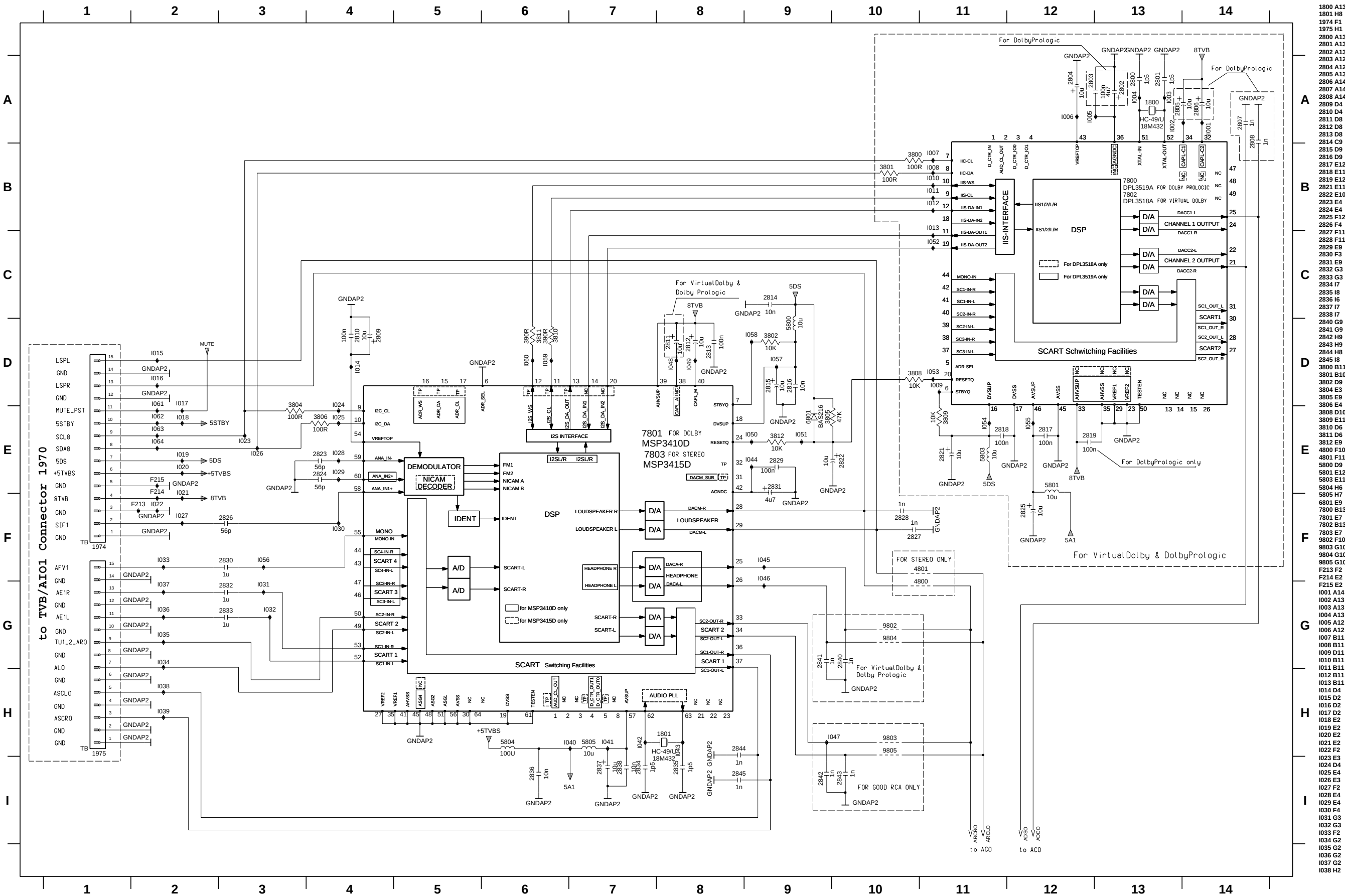
Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

Pre Amplifier (ACO) - Audio Board (APDOD)



	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Audio Processing (AF2) - Audio Board (APDOD)



- 1800 A13
- 1801 H8
- 1974 F1
- 1975 H1
- 2800 A13
- 2801 A13
- 2802 A13
- 2803 A12
- 2804 A12
- 2805 A13
- 2806 A14
- 2807 A14
- 2808 A14
- 2809 D4
- 2810 D4
- 2811 D8
- 2812 D8
- 2813 D8
- 2814 C9
- 2815 D9
- 2816 D9
- 2817 E12
- 2818 E11
- 2819 E12
- 2821 E11
- 2822 E10
- 2823 E4
- 2824 E4
- 2825 F12
- 2826 F4
- 2827 F11
- 2828 F11
- 2829 E9
- 2830 F3
- 2831 E9
- 2832 G3
- 2833 G3
- 2834 I7
- 2835 I8
- 2836 I6
- 2837 I7
- 2838 I7
- 2840 G9
- 2841 G9
- 2842 H9
- 2843 H9
- 2844 H8
- 2845 I8
- 3800 B11
- 3801 B10
- 3802 D9
- 3804 E3
- 3805 E9
- 3806 E4
- 3808 D10
- 3809 E11
- 3810 D6
- 3811 D6
- 3812 E9
- 4800 F10
- 4801 F11
- 5800 D9
- 5801 E12
- 5803 E11
- 5804 H6
- 5805 H7
- 6801 E9
- 7800 B13
- 7801 E7
- 7802 B13
- 7803 E7
- 9802 F10
- 9803 G10
- 9804 G10
- 9805 G10
- F213 F2
- F214 E2
- F215 E2
- I001 A14
- I002 A13
- I003 A13
- I004 A13
- I005 A12
- I006 A12
- I007 B11
- I008 B11
- I009 D11
- I010 B11
- I011 B11
- I012 B11
- I013 B11
- I014 D4
- I015 D2
- I016 D2
- I017 D2
- I018 E2
- I019 E2
- I020 E2
- I021 E2
- I022 F2
- I023 E3
- I024 D4
- I025 E4
- I026 E3
- I027 F2
- I028 E4
- I029 E4
- I030 F4
- I031 G3
- I032 G3
- I033 F2
- I034 G2
- I035 G2
- I036 G2
- I037 G2
- I038 H2
- I039 H2
- I040 H7
- I041 H7
- I042 H7
- I043 H8
- I044 E9
- I045 F9
- I046 F9
- I047 G9
- I048 D8
- I049 D8
- I050 E9
- I051 E9
- I052 C11
- I053 D10
- I054 E11
- I055 E12
- I056 F3
- I057 D9
- I058 D9
- I059 D6
- I060 D6
- I061 D2
- I062 E2
- I063 E2
- I064 E2

Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

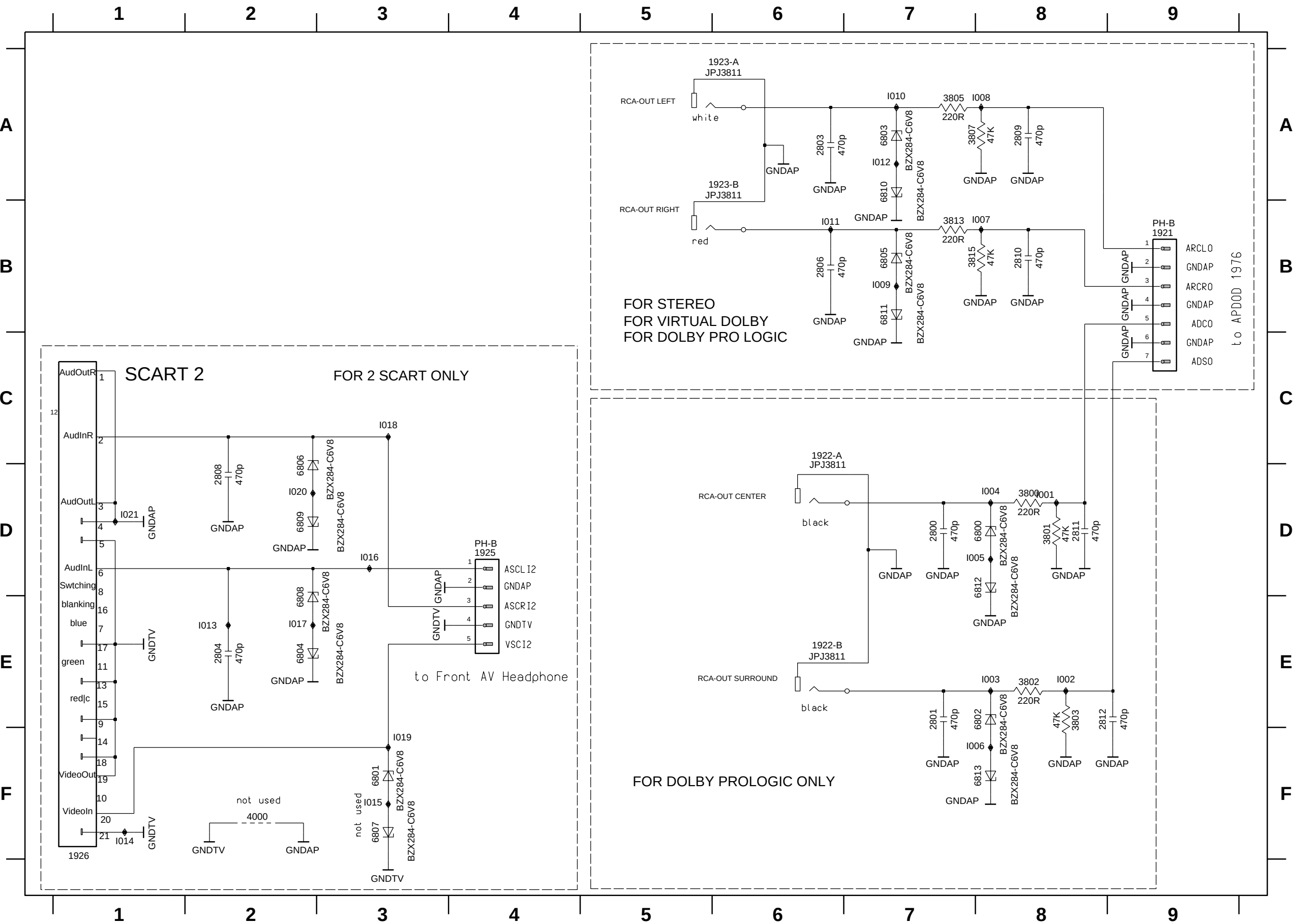
The diagram is a complex electronic circuit for a 4-channel audio system, organized into a 6x9 grid. The components and sections are as follows:

- Grid Labels:** Columns are numbered 1 to 9. Rows are labeled A to F.
- Sections:**
 - for Bass, Treble only:** Located in the top-left and bottom-left areas, featuring op-amp TL074CN and various passive components.
 - for Radio only:** Located in the top-right area, featuring diodes 1N4006 and transistors BC847B.
 - for PB-Stereo only:** Located in the middle-right area, featuring multiplexers HEF4053BT.
 - for Pseudo-Stereo only:** Located in the bottom-right area, featuring op-amp TL074CN and various passive components.
- Components:**
 - Resistors:** Various values like 1K, 10K, 100K, 1M, 10n, 100n, 1u, 10u, 100u, 1000u.
 - Capacitors:** Various values like 10p, 100p, 1n, 10n, 100n, 1u, 10u, 100u, 1000u.
 - ICs:** TL074CN (op-amp), BC847B (transistor), HEF4053BT (multiplexer), 7653-B, 7653-C, 7653-D, 7653-A, 7653-E, 7653-F, 7653-G, 7653-H, 7653-I, 7653-J, 7653-K, 7653-L, 7653-M, 7653-N, 7653-O, 7653-P, 7653-Q, 7653-R, 7653-S, 7653-T, 7653-U, 7653-V, 7653-W, 7653-X, 7653-Y, 7653-Z.
 - Connectors:** 1909, 1901, 1900, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000.
- Legend:**
 -V MEASURED IN PLAYBACK MODE
 -V MEASURED IN RECORD MODE
 - OSILLOGRAMS

1900 D9	3662 E2	1021 C3
1901 B9	3663 F1	1022 B3
1903 A5	3664 F1	1023 B2
1909 A9	3665 A5	1024 B3
2609 E1	3666 A5	1025 A4
2610 D3	3667 B5	1026 A1
2611 D1	3668 C6	1027 A2
2612 D3	3669 B6	1028 A1
2613 D2	3670 B6	1029 B2
2614 C3	3671 C5	1030 C1
2617 E6	3672 B5	1031 B1
2618 D7	3673 B5	1032 B1
2619 B1	3674 B5	1033 B1
2620 B1	3675 E8	1034 B1
2621 A4	3676 D8	1035 B1
2622 A3	3677 C6	1036 A2
2623 B2	3678 C6	1037 C3
2624 B3	3679 D6	1038 C3
2625 B3	4000 B8	1039 C1
2627 E5	4001 C8	1040 D2
2628 E5	4002 C5	1041 D3
2629 B6	4003 B4	1042 D4
2630 A6	4004 A4	1043 E3
2631 C5	4005 E8	1044 D2
2632 A8	4006 C2	1045 D2
2633 E4	4007 F5	1046 D2
2634 A2	4008 F5	1047 D1
2635 D8	4009 F6	1048 D1
2636 D7	4010 F7	1049 E1
2637 D9	4011 C6	1050 E2
2638 C5	4012 B5	1051 E2
2639 C6	4013 B6	1052 E1
2640 A4	4014 C9	1053 F1
3616 E1	6000 A5	1054 F1
3617 F1	6001 A6	1055 F1
3618 E1	6002 A6	1056 F2
3619 F2	7602 F2	1057 F3
3620 F3	7603 E2	1058 F3
3621 E3	7604 E2	1059 E4
3622 E4	7605 E3	1060 E5
3623 E4	7606 D3	1061 D5
3624 D4	7607 E4	1062 D5
3625 D3	7608 E1	1063 E5
3626 D3	7609 C3	1064 D6
3627 D2	7610 C2	1065 D6
3628 D1	7611 B1	1066 E6
3629 D1	7653-A	C21067 D7
3630 D2	7653-B	A21068 D8
3631 D2	7653-C	E51069 D8
3632 D2	7653-D	E71070 F9
3633 C3	7655 F1	1071 E9
3634 C3	7656 F3	1072 E9
3635 D4	7657 B6	1073 D3
3637 E6	7658-A	C71074 D7
3638 D6	7658-B	D81075 F1
3639 D7	7658-C	A71076 A8
3640 E7	7660 B5	1077 D8
3641 B1	7661 D5	1078 A9
3642 B1	I001 A9	
3643 B1	I002 B6	
3644 B1	I003 B8	
3645 A1	I004 B8	
3646 A1	I005 B6	
3647 B3	I006 B6	
3648 B2	I007 B6	
3649 C1	I008 A6	
3650 D2	I009 A6	
3651 B3	I010 A6	
3652 B3	I011 A5	
3653 B4	I012 A5	
3654 C4	I013 A5	
3655 D5	I014 C5	
3656 D6	I015 B5	
3657 E5	I016 B5	
3658 E6	I017 C5	
3659 D1	I018 B5	
3660 F4	I019 B5	
3661 C1	I020 C4	

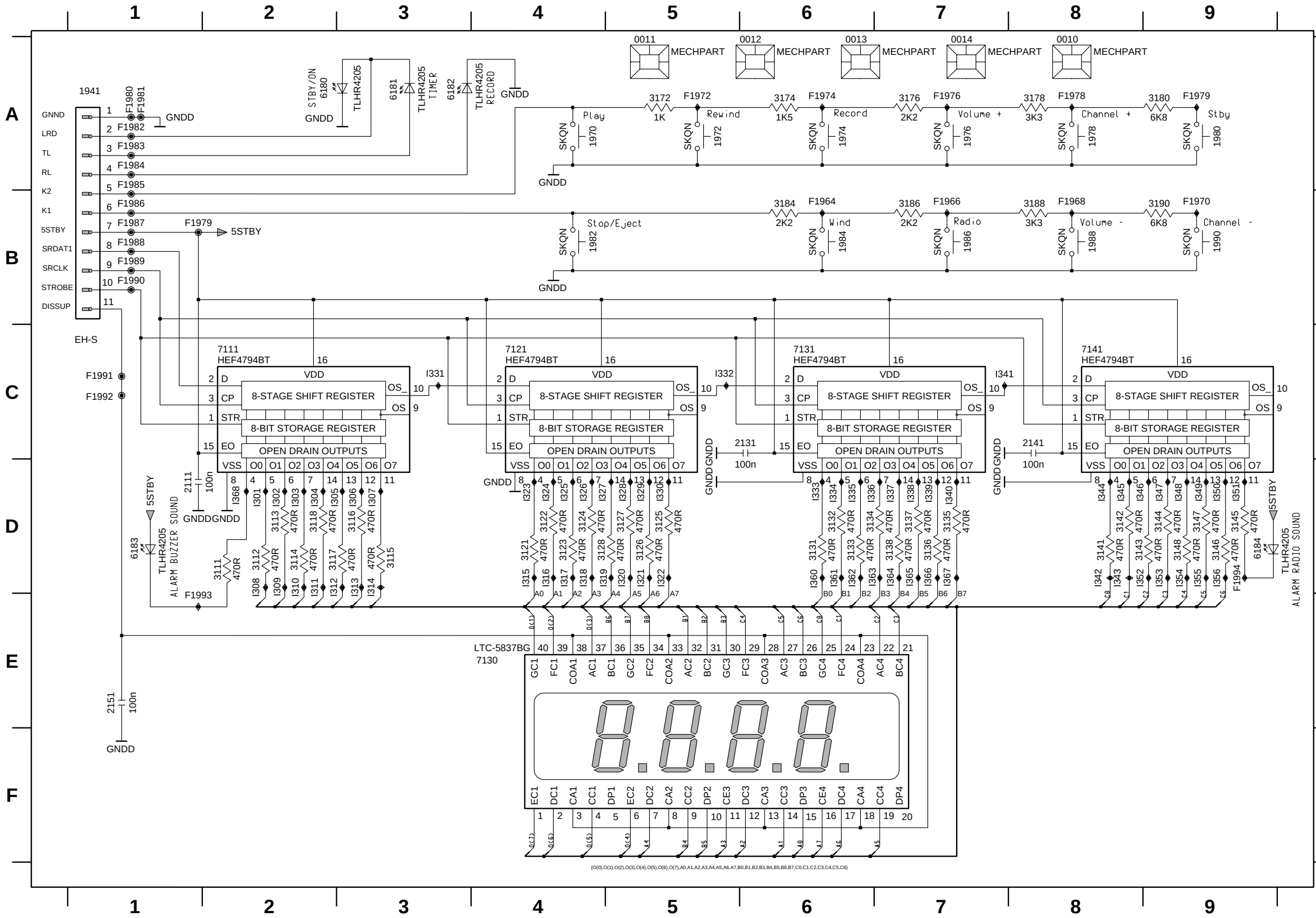
	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Cinch Out, Scart 2 Board (DOSCD)



Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-19	3-18	3-32	3-26	3-27
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

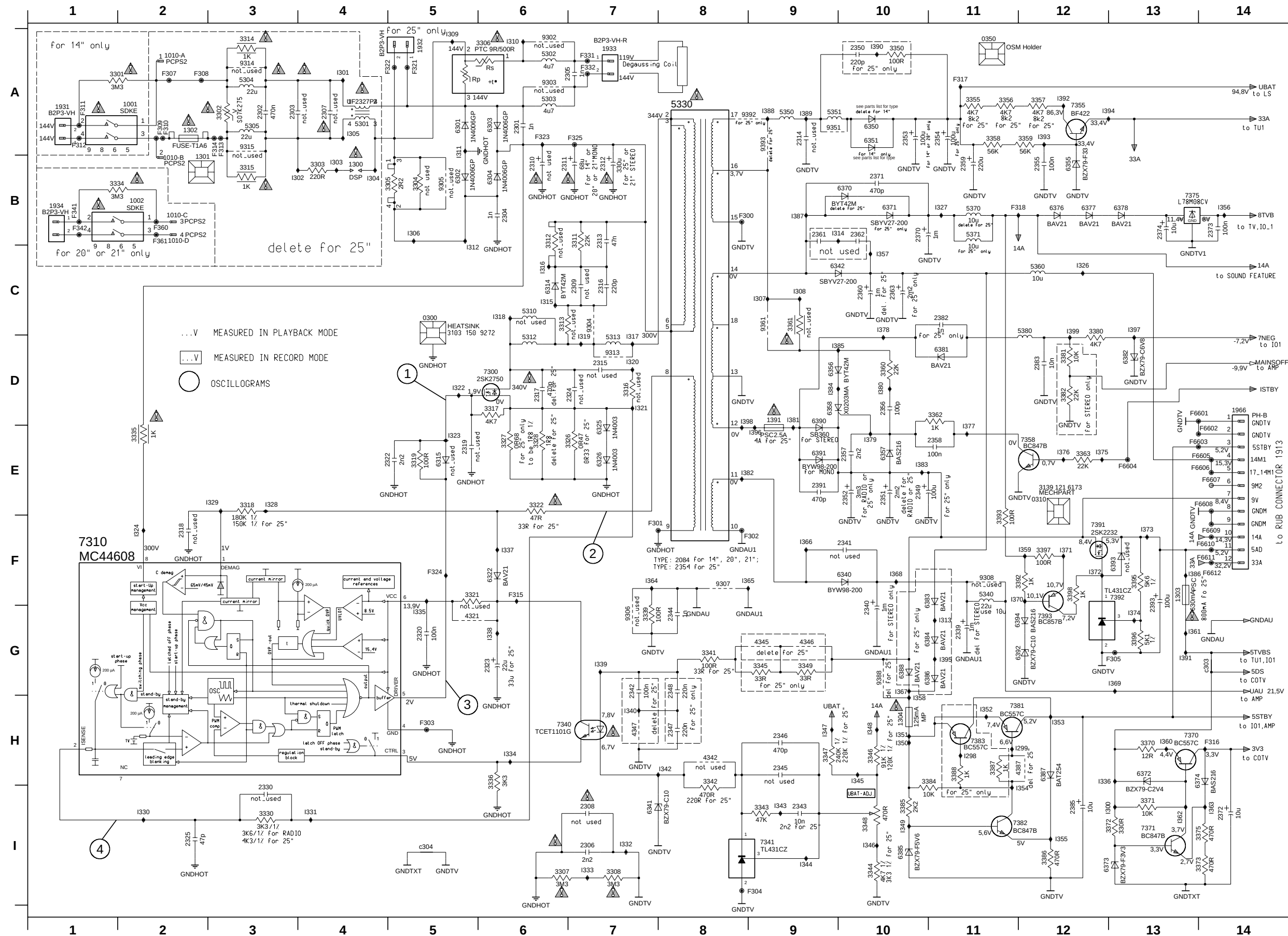
Keys & Display Board (KB1D)



0010 A8	F1972 A5	I356 D9
0011 A5	F1974 A6	I360 D6
0012 A6	F1976 A7	I361 D6
0013 A6	F1978 A8	I362 D6
0014 A7	F1979 B1	I363 D6
1941 A1	F1979 A9	I364 D7
1970 A4	F1980 A1	I365 D7
1972 A5	F1981 A1	I366 D7
1974 A6	F1982 A1	I367 D7
1976 A7	F1983 A1	I368 D2
1978 A8	F1984 A1	
1980 A9	F1985 A1	
1982 B4	F1986 B1	
1984 B6	F1987 B1	
1986 B7	F1988 B1	
1988 B8	F1989 B1	
1990 B9	F1990 B1	
2111 D1	F1991 C1	
2131 C6	F1992 C1	
2141 C8	F1993 E1	
2151 E1	F1994 D9	
3111 D2	I301 D2	
3112 D2	I302 D2	
3113 D2	I303 D2	
3114 D2	I304 D2	
3115 D3	I305 D2	
3116 D3	I306 D3	
3117 D2	I307 D3	
3118 D2	I308 D2	
3121 D4	I309 D2	
3122 D4	I310 D2	
3123 D4	I311 D2	
3124 D4	I312 D2	
3125 D5	I313 D3	
3126 D5	I314 D3	
3127 D5	I315 D4	
3128 D4	I316 D4	
3131 D6	I317 D4	
3132 D6	I318 D4	
3133 D6	I319 D4	
3134 D6	I320 D5	
3135 D7	I321 D5	
3136 D7	I322 D5	
3137 D7	I323 D4	
3138 D7	I324 D4	
3141 D8	I325 D4	
3142 D8	I326 D4	
3143 D8	I327 D4	
3144 D9	I328 D5	
3145 D9	I329 D5	
3146 D9	I330 D5	
3147 D9	I331 C3	
3148 D9	I332 C5	
3172 A5	I333 D6	
3174 A6	I334 D6	
3176 A7	I335 D6	
3178 A8	I336 D6	
3180 A9	I337 D7	
3184 B6	I338 D7	
3186 B7	I339 D7	
3188 B8	I340 D7	
3190 B9	I341 C7	
6180 A2	I342 D8	
6181 A3	I343 D8	
6182 A3	I344 D8	
6183 D1	I345 D8	
6184 D9	I346 D8	
7111 C2	I347 D9	
7121 C4	I348 D9	
7130 E4	I349 D9	
7131 C6	I350 D9	
7141 C8	I351 D9	
F1964 B6	I352 D8	
F1966 B7	I353 D9	
F1968 B8	I354 D9	
F1970 B9	I355 D9	

Interconnections													
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24

Power Supply (PS) - TV Board (TVB)



0300 C5	3385 I10	F6607 E14
0310 E12	3386 I12	F6608 E14
0350 A9	3387 H11	F6609 F14
1001 A2	3388 H11	F6610 F14
1002 B2	3392 F12	F6611 F14
1010-A A2	3393 F11	F6612 F14
1010-B B2	3395 F13	I298 H11
1010-C B2	3396 G13	I299 H12
1010-D B2	3397 F12	I300 I12
1300 B4	3398 F12	I301 A4
1301 B2	4321 G5	I302 B3
1302 A2	4342 H8	I303 B4
1303 F13	4345 G9	I304 B4
1304 H10	4346 G9	I305 A4
1391 D9	4347 H7	I306 B5
1931 A1	4387 H12	I307 C9
1932 A5	5301 A4	I308 C9
1933 A7	5302 A6	I309 A5
1934 B1	5303 A6	I310 A6
1966 D14	5304 A3	I311 A5
2301 A6	5305 A3	I312 C5
2302 A3	5310 C6	I313 G11
2303 A3	5312 D6	I314 B9
2304 B6	5313 D7	I315 C6
2305 A7	5330 A8	I316 C6
2306 I7	5340 F11	I317 D7
2307 A4	5350 A9	I318 C6
2308 I7	5351 A10	I319 D7
2309 C7	5360 C12	I320 D7
2310 B6	5370 B11	I321 D7
2311 B6	5371 B11	I322 D5
2312 B7	5380 C12	I323 E5
2313 B7	6301 A5	I324 F2
2314 A9	6302 B5	I326 C12
2315 D7	6303 A6	I327 B11
2316 C7	6304 B6	I328 E3
2317 D6	6314 C6	I329 E3
2318 F2	6315 E5	I330 I2
2319 E5	6322 F6	I331 I4
2320 E5	6325 E7	I332 I7
2322 E5	6326 E7	I333 I7
2323 G6	6340 F10	I334 H6
2324 D7	6341 I7	I335 G5
2325 C2	6342 C9	I336 H12
2330 I3	6350 A10	I337 F6
2339 G11	6355 B12	I338 G6
2340 G10	6356 D9	I339 C7
2341 F10	6357 E10	I340 H7
2342 G7	6358 D9	I342 H8
2343 I9	6370 B10	I343 I9
2344 G8	6371 B10	I344 I9
2345 H8	6372 H13	I345 H10
2346 H8	6373 I12	I346 I10
2347 H8	6374 H14	I347 H9
2348 G8	6376 B12	I348 H10
2349 E10	6377 B12	I349 I10
2350 A10	6378 B13	I350 H10
2351 E10	6381 D11	I351 H10
2352 E10	6382 D13	I352 H10
2353 A10	6383 F11	I353 H12
2354 A11	6384 G11	I354 I12
2355 B12	6385 I10	I355 I12
2356 D10	6386 G11	I356 B14
2357 E10	6387 H12	I357 C10
2358 E11	6388 G10	I358 H10
2359 B11	6390 D9	I359 F12
2360 C10	6391 E9	I360 H13
2361 B9	6392 G12	I361 G13
2362 B10	6393 F13	I362 I13
2363 C10	6394 G12	I363 I14
2364 D10	6395 F13	I364 F7
2365 F10	6396 F13	I365 F8
2366 F10	6397 F13	I366 F9
2367 F10	6398 F13	I367 G10
2368 F10	6399 F13	I368 F10
2369 F10	6400 F13	I369 G13
2370 F10	6401 F13	I370 F11
2371 B10	6402 F13	I371 F12
2372 I14	6403 F13	I372 F12
2373 B14	6404 F13	I373 F13
2374 B13	6405 F13	I374 G13
2375 A12	6406 F13	I375 E12
2376 A12	6407 F13	I376 E12
2377 A12	6408 F13	I377 E11
2378 A12	6409 F13	I378 C10
2379 A12	6410 F13	I379 E10
2380 A12	6411 F13	I380 D10
2381 A12	6412 F13	I381 D9
2382 A12	6413 F13	I382 E8
2383 A12	6414 F13	I383 E10
2384 A12	6415 F13	I384 D9
2385 A12	6416 F13	I385 D9
2386 A12	6417 F13	I386 F13
2387 A12	6418 F13	I387 B9
2388 A12	6419 F13	I388 A9
2389 A12	6420 F13	I389 A9
2390 A12	6421 F13	I390 A10
2391 A12	6422 F13	I391 G13
2392 A12	6423 F13	I392 A12
2393 A12	6424 F13	I393 A12
2394 A12	6425 F13	I394 A12
2395 A12	6426 F13	I395 G11
2396 A12	6427 F13	I396 E9
2397 A12	6428 F13	I397 C13
2398 A12	6429 F13	I398 D8
2399 A12	6430 F13	I399 C13
2400 A12	6431 F13	I400 G14
2401 A12	6432 F13	I401 I5

Interconnections

Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-18	3-32	3-26	3-27	3-11	
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

...V MEASURED IN PLAYBACK MODE ...V MEASURED IN RECORD MODE ○ OSCILLOGRAMS ● SMD components

VARIANT TABLE FOR LOT

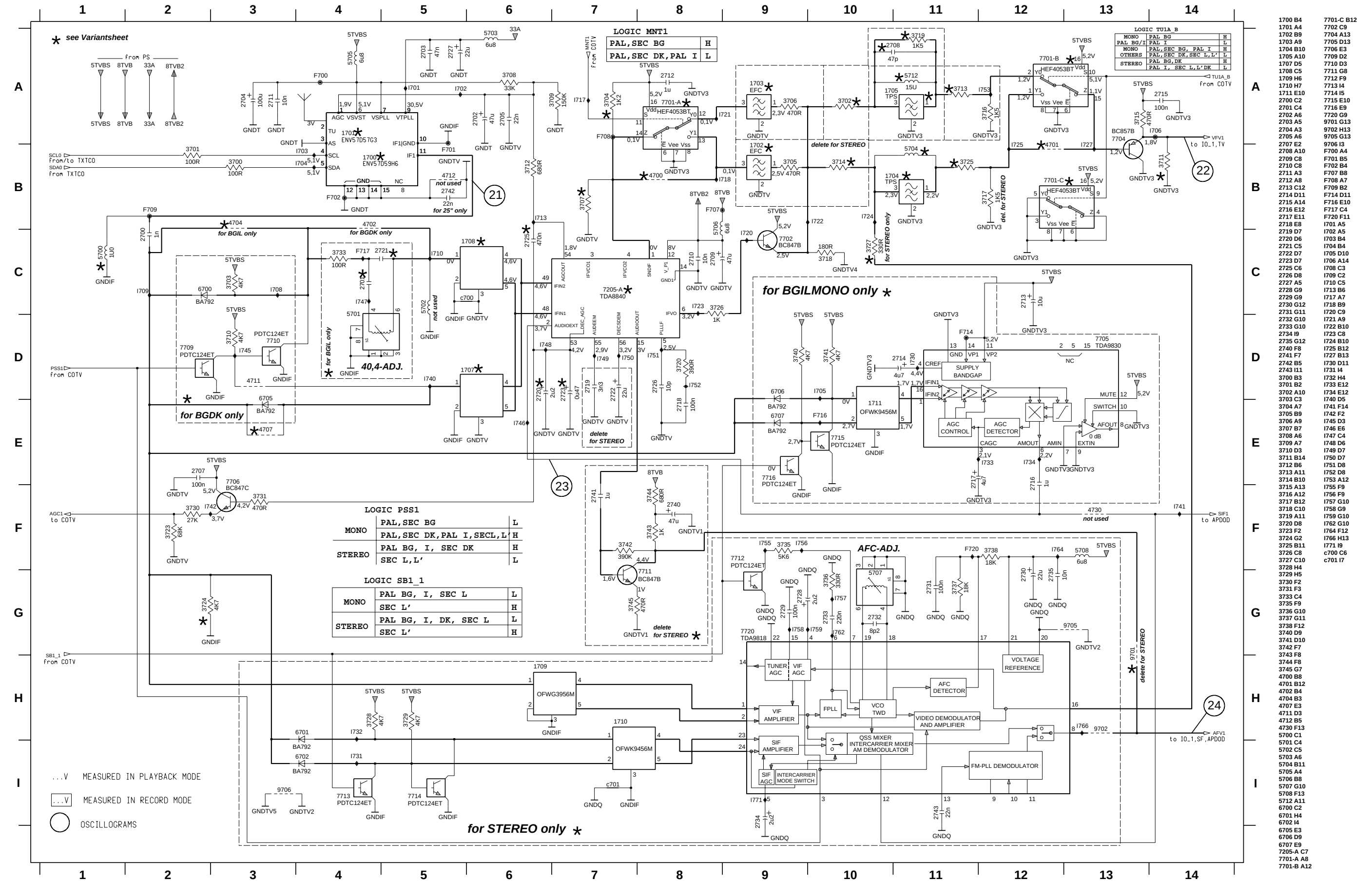
TUBE	POS.
14", 20", 21"	5519
25"	5520

VARIANT TABLE *

POS.	14"	20"	21"	25"
3557	12K	18K	18K	5K6
3561	680E	470E	470E	470E
3562	680E	470E	470E	470E
3563	3E3	2E7	2E2	1E
3564	3E3	3E3	2E7	1E

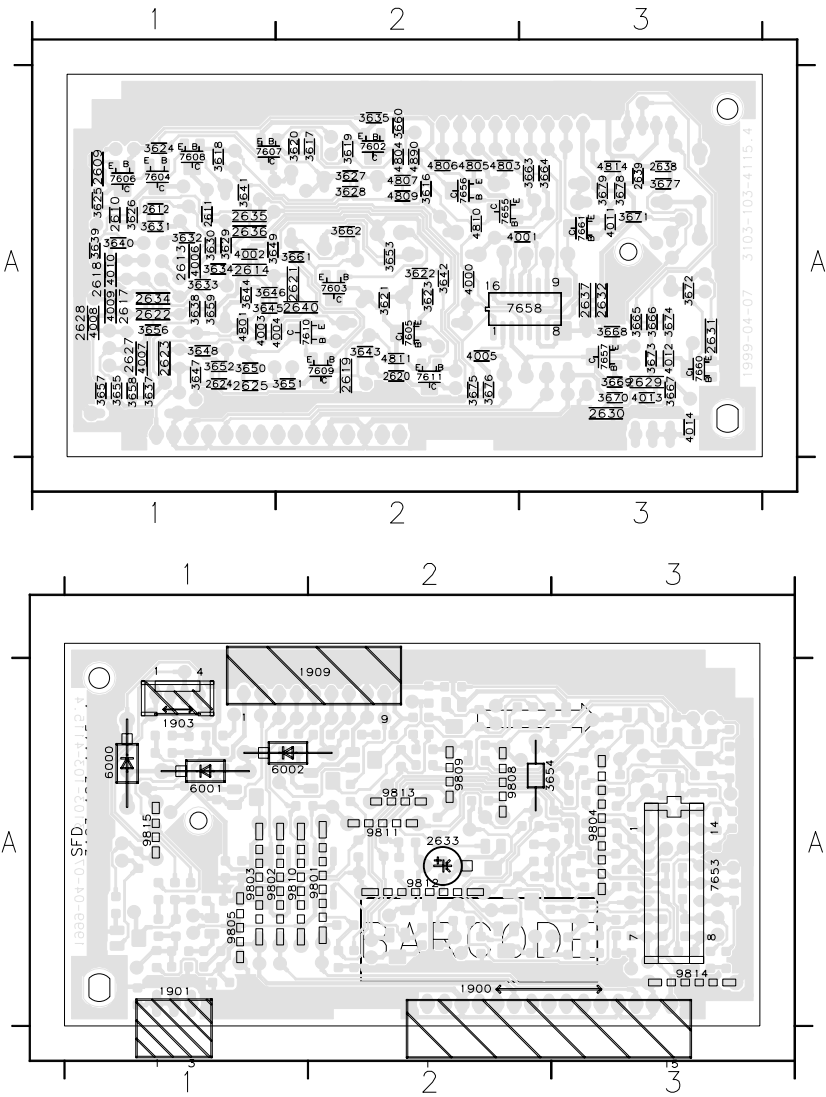
	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO 1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Tuner 1 (TU1) - TV Board (TVB)



	Interconnections														
Circuit	ACO	AF	AF2	AIO1	AIO2	AL	AMP	AP	COTV	CVB	DE	DOSCD	HA	HPAV	IO_1
page	3-29	3-22	3-30	3-16	3-17	3-23	3-13	3-21	3-14	3-19	3-18	3-32	3-26	3-27	3-11
Circuit	KB1D	KB2D	LS	MFSWD	PS (RUB)	PS (TVB)	PT	SF	SFD	TU1	TU2	TV	VS	VSEC	
page	3-33	3-34	3-8	3-34	3-15	3-7	3-28	3-12	3-31	3-9	3-20	3-10	3-24	3-25	

Sound Feature Board (SFD)



2609	A1	3636	A1	4814	A3
2610	A1	3637	A1	4815	A3
2611	A1	3638	A1	4816	A3
2612	A1	3639	A1	4817	A3
2613	A1	3640	A1	4818	A3
2614	A1	3641	A1	4819	A3
2615	A1	3642	A1	4820	A3
2616	A1	3643	A1	4821	A3
2617	A1	3644	A1	4822	A3
2618	A1	3645	A1	4823	A3
2619	A1	3646	A1	4824	A3
2620	A1	3647	A1	4825	A3
2621	A1	3648	A1	4826	A3
2622	A1	3649	A1	4827	A3
2623	A1	3650	A1	4828	A3
2624	A1	3651	A1	4829	A3
2625	A1	3652	A1	4830	A3
2626	A1	3653	A1	4831	A3
2627	A1	3654	A1	4832	A3
2628	A1	3655	A1	4833	A3
2629	A1	3656	A1	4834	A3
2630	A1	3657	A1	4835	A3
2631	A1	3658	A1	4836	A3
2632	A1	3659	A1	4837	A3
2633	A1	3660	A1	4838	A3
2634	A1	3661	A1	4839	A3
2635	A1	3662	A1	4840	A3
2636	A1	3663	A1	4841	A3
2637	A1	3664	A1	4842	A3
2638	A1	3665	A1	4843	A3
2639	A1	3666	A1	4844	A3
2640	A1	3667	A1	4845	A3
2641	A1	3668	A1	4846	A3
2642	A1	3669	A1	4847	A3
2643	A1	3670	A1	4848	A3
2644	A1	3671	A1	4849	A3
2645	A1	3672	A1	4850	A3
2646	A1	3673	A1	4851	A3
2647	A1	3674	A1	4852	A3
2648	A1	3675	A1	4853	A3
2649	A1	3676	A1	4854	A3
2650	A1	3677	A1	4855	A3
2651	A1	3678	A1	4856	A3
2652	A1	3679	A1	4857	A3
2653	A1	3680	A1	4858	A3
2654	A1	3681	A1	4859	A3
2655	A1	3682	A1	4860	A3
2656	A1	3683	A1	4861	A3
2657	A1	3684	A1	4862	A3
2658	A1	3685	A1	4863	A3
2659	A1	3686	A1	4864	A3
2660	A1	3687	A1	4865	A3
2661	A1	3688	A1	4866	A3
2662	A1	3689	A1	4867	A3
2663	A1	3690	A1	4868	A3
2664	A1	3691	A1	4869	A3
2665	A1	3692	A1	4870	A3
2666	A1	3693	A1	4871	A3
2667	A1	3694	A1	4872	A3
2668	A1	3695	A1	4873	A3
2669	A1	3696	A1	4874	A3
2670	A1	3697	A1	4875	A3
2671	A1	3698	A1	4876	A3
2672	A1	3699	A1	4877	A3
2673	A1	3700	A1	4878	A3
2674	A1	3701	A1	4879	A3
2675	A1	3702	A1	4880	A3
2676	A1	3703	A1	4881	A3
2677	A1	3704	A1	4882	A3
2678	A1	3705	A1	4883	A3
2679	A1	3706	A1	4884	A3
2680	A1	3707	A1	4885	A3
2681	A1	3708	A1	4886	A3
2682	A1	3709	A1	4887	A3
2683	A1	3710	A1	4888	A3
2684	A1	3711	A1	4889	A3
2685	A1	3712	A1	4890	A3
2686	A1	3713	A1	4891	A3
2687	A1	3714	A1	4892	A3
2688	A1	3715	A1	4893	A3
2689	A1	3716	A1	4894	A3
2690	A1	3717	A1	4895	A3
2691	A1	3718	A1	4896	A3
2692	A1	3719	A1	4897	A3
2693	A1	3720	A1	4898	A3
2694	A1	3721	A1	4899	A3
2695	A1	3722	A1	4900	A3
2696	A1	3723	A1	4901	A3
2697	A1	3724	A1	4902	A3
2698	A1	3725	A1	4903	A3
2699	A1	3726	A1	4904	A3
2700	A1	3727	A1	4905	A3
2701	A1	3728	A1	4906	A3
2702	A1	3729	A1	4907	A3
2703	A1	3730	A1	4908	A3
2704	A1	3731	A1	4909	A3
2705	A1	3732	A1	4910	A3
2706	A1	3733	A1	4911	A3
2707	A1	3734	A1	4912	A3
2708	A1	3735	A1	4913	A3
2709	A1	3736	A1	4914	A3
2710	A1	3737	A1	4915	A3
2711	A1	3738	A1	4916	A3
2712	A1	3739	A1	4917	A3
2713	A1	3740	A1	4918	A3
2714	A1	3741	A1	4919	A3
2715	A1	3742	A1	4920	A3
2716	A1	3743	A1	4921	A3
2717	A1	3744	A1	4922	A3
2718	A1	3745	A1	4923	A3
2719	A1	3746	A1	4924	A3
2720	A1	3747	A1	4925	A3
2721	A1	3748	A1	4926	A3
2722	A1	3749	A1	4927	A3
2723	A1	3750	A1	4928	A3
2724	A1	3751	A1	4929	A3
2725	A1	3752	A1	4930	A3
2726	A1	3753	A1	4931	A3
2727	A1	3754	A1	4932	A3
2728	A1	3755	A1	4933	A3
2729	A1	3756	A1	4934	A3
2730	A1	3757	A1	4935	A3
2731	A1	3758	A1	4936	A3
2732	A1	3759	A1	4937	A3
2733	A1	3760	A1	4938	A3
2734	A1	3761	A1	4939	A3
2735	A1	3762	A1	4940	A3
2736	A1	3763	A1	4941	A3
2737	A1	3764	A1	4942	A3
2738	A1	3765	A1	4943	A3
2739	A1	3766	A1	4944	A3
2740	A1	3767	A1	4945	A3
2741	A1	3768	A1	4946	A3
2742	A1	3769	A1	4947	A3
2743	A1	3770	A1	4948	A3
2744	A1	3771	A1	4949	A3
2745	A1	3772	A1	4950	A3
2746	A1	3773	A1	4951	A3
2747	A1	3774	A1	4952	A3
2748	A1	3775	A1	4953	A3
2749	A1	3776	A1	4954	A3
2750	A1	3777	A1	4955	A3
2751	A1	3778	A1	4956	A3
2752	A1	3779	A1	4957	A3
2753	A1	3780	A1	4958	A3
2754	A1	3781	A1	4959	A3
2755	A1	3782	A1	4960	A3
2756	A1	3783	A1	4961	A3
2757	A1	3784	A1	4962	A3
2758	A1	3785	A1	4963	A3
2759	A1	3786	A1	4964	A3
2760	A1	3787	A1	4965	A3
2761	A1	3788	A1	4966	A3
2762	A1	3789	A1	4967	A3
2763	A1	3790	A1	4968	A3
2764	A1	3791	A1	4969	A3
2765	A1	3792	A1	4970	A3
2766	A1	3793	A1	4971	A3
2767	A1	3794	A1	4972	A3
2768	A1	3795	A1	4973	A3
2769	A1	3796	A1	4974	A3
2770	A1	3797	A1	4975	A3
2771	A1	3798	A1	4976	A3
2772	A1	3799	A1	4977	A3
2773	A1	3800	A1	4978	A3
2774	A1	3801	A1	4979	A3
2775	A1	3802	A1	4980	A3
2776	A1	3803	A1	4981	A3
2777	A1	3804	A1	4982	A3
2778	A1	3805	A1	4983	A3
2779	A1	3806	A1	4984	A3
2780	A1	3807	A1	4985	A3
2781	A1	3808	A1	4986	A3
2782	A1	3809	A1	4987	A3
2783	A1	3810	A1	4988	A3
2784	A1	3811	A1	4989	A3
2785	A1	3812	A1	4990	A3
2786	A1	3813	A1	4991	A3
2787	A1	3814	A1	4992	A3
2788	A1	3815	A1	4993	A3
2789	A1	3816	A1	4994	A3
2790	A1	3817	A1	4995	A3
2791	A1	3818	A1	4996	A3
2792	A1	3819	A1	4997	A3
2793	A1	3820	A1	4998	A3
2794	A1	3821	A1	4999	A3
2795	A1	3822	A1	5000	A3
2796	A1	3823	A1	5001	A3
2797	A1	3824	A1	5002	A3
2798	A1	3825	A1	5003	A3
2799	A1	3826	A1	5004	A3
2800	A1	3827	A1	5005	A3
2801	A1	3828	A1	5006	A3
2802	A1	3829	A1	5007	A3
2803	A1	3830	A1	5008	A3
2804	A1	3831	A1	5009	A3
2805	A1	3832	A1	5010	A3
2806	A1	3833	A1	5011	A3
2807	A1	3834	A1	5012	A3
2808	A1	3835	A1	5013	A3
2809	A1	3836	A1	5014	A3
2810	A1	3837	A1	5015	A3
2811	A1	3838	A1	5016	A3
2812	A1	3839	A1	5017	A3
2813	A1	3840	A1	5018	A3
2814	A1	3841	A1	5019	A3
2815	A1	3842	A1	5020	A3
2816	A1	3843	A1	5021	A3
2817	A1	3844	A1	5022	A3
2818	A1	3845	A1	5023	A3
2819	A1	3846	A1	5024	A3
2820	A1	3847	A1	5025	A3
2821	A1	3848	A1	5026	A3
2822	A1	3849	A1	5027	A3
2823	A1	3850	A1	5028	A3
2824	A1	3851	A1	5029	A3
2825	A1	3852	A1	5030	A3
2826	A1	3853	A1	5031	A3
2827	A1	3854	A1	5032	A3
2828	A1	3855	A1	5033	A3
2829	A1	3856	A1	5034	A3
2830	A1	3857	A1	5035	A3
2831	A1	3858	A1	5036	A3
2832	A1	3859	A1	5037	A3
2833	A1	3860	A1	5038	A3
2834	A1	3861	A1	5039	A3
2835	A1	3862	A1	5040	A3
2836	A1	3863	A1	5041	A3
2837	A1	3864	A1	5042	A3
2838	A1	3865	A1	5043	A3
2839	A1	3866	A1	5044	A3
2840	A1	3867	A1	5045	A3
2841	A1	3868	A1	5046	A3
2842	A1	3869	A1	5047	A3
2843	A1	3870	A1	5048	A3
2844	A1	3871	A1	5049	A3
2845	A1	3872	A1	5050	A3
2846	A1	3873	A1	5051	A3
2847	A1	3874	A1	5052	A3
2848	A1	3875	A1	5053	A3
2849	A1	3876	A1	5054	A3
2850	A1	3877	A1	5055	A3
2851	A1	3878	A1	5056	A3
2852	A1	3879	A1	5057	A3
2853	A1	3880	A1	5058	A3
2854	A1	3881	A1	5059	A3
2855	A1	3882	A1	5060	A3
2856	A1	3			