

POWER-SUPPLY/SYNC/HOR-DEFL

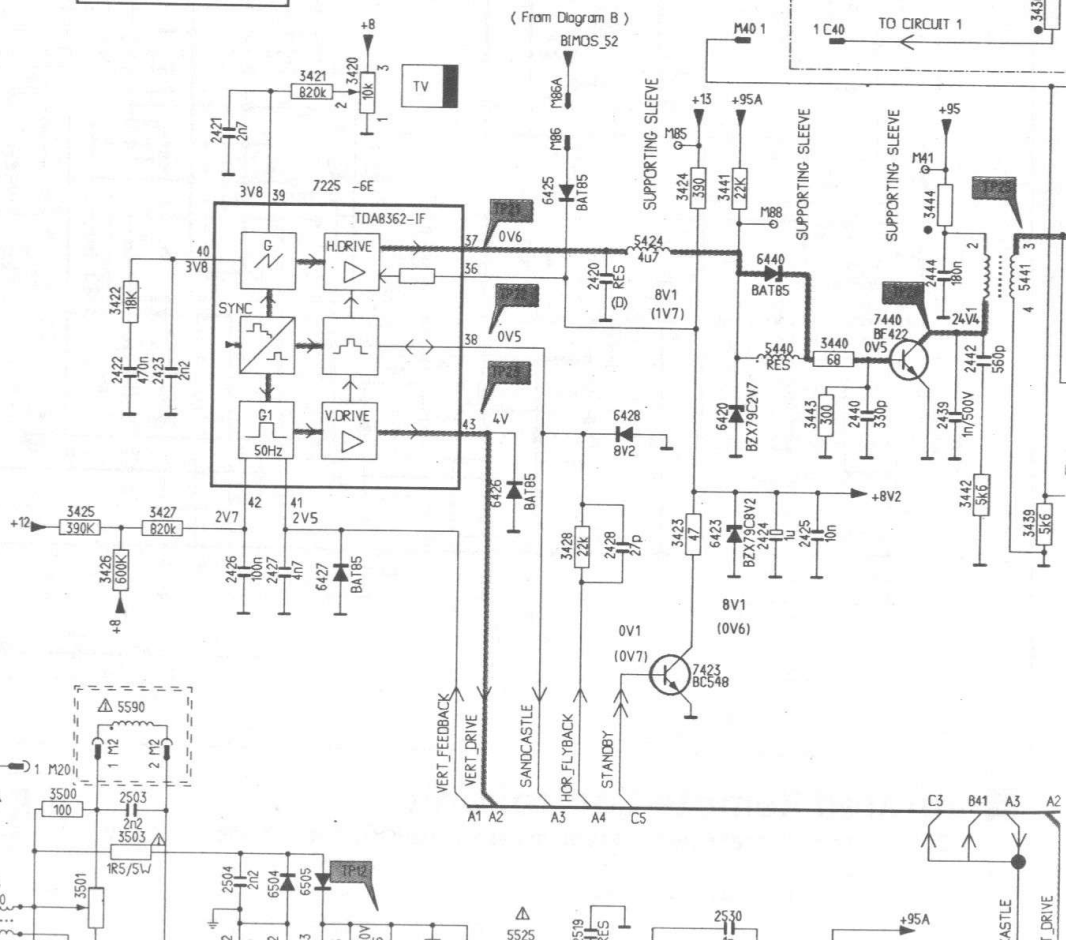
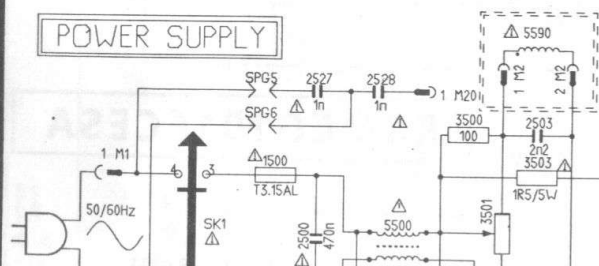
SYNC/LINE-DRIVE + OUTPUT

PHILIPS

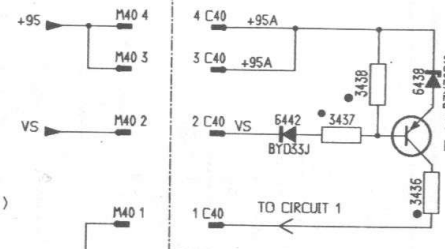
MOD:21GX1565/
21GX1865/14GX1515/
14GX1815/20GX1555/
20GX1855

●	14"	20"	21"	21" / 93
2445	560pF	1n	680p	1n5
2446	3n3	4n7	4n7	5n6
2450	470n	470n	560n	390n
2447	680pF	330pF	1n	1n5
2457	15n	18n	18n	18n
2458	5n6	5n6	5n6	5n6
3436	8K2	12K	8K2	8K2
3437	1K	1K5	1K8	1K8
3438	2K2	2K2	2K4	2K4
3444	4K7	5k6	5k6	5k6
3453	-	2k2	2k2	2k2
3454	-	2k2	2k2	2k2
3460	-	20k	20k	20k
3470	-	-	BR2	BR2
5454	-	-	22211	22211
7445	BUT11AF	25C3973B	25C3973B	25C3973B
9454	JMP	-	-	-

POWER SUPPLY



SCAN PROT CCT SCH : 3139/123



(From Diagram B)

BIMOS_52

M86A

M86

6425

BAT85

37

0V6

36

38

0V5

45

4V

6428

8V2

6426

BAT85

42

2V7

3425

390K

3427

820K

3426

600K

41

2V5

2426

100n

2427

4n7

6427

BAT85

40

3V8

39

7225 -6E

TDA8362-IF

G

H.DRIVE

3422

18K

2422

470n

2423

2n2

3421

820K

2

3420

10K

3

TV

1

8

VS

M40 2

M40 3

M40 4

+9S

4 C40

+9SA

3 C40

+9SA

2 C40

VS

6442

BYD33J

3437

3438

6439

R7X79HR

7

B

1 C40

TO CIRCUIT 1

3435

3436

3437

3438

3439

3440

3441

3442

3443

3444

3445

3446

3447

3448

3449

3450

3451

3452

3453

3454

3455

3456

3457

3458

3459

3460

3461

3462

3463

3464

3465

3466

3467

3468

3469

3470

3471

3472

3473

3474

3475

3476

3477

3478

3479

3480

3481

3482

3483

3484

3485

3486

3487

3488

3489

3490

3491

3492

3493

3494

3495

3496

3497

3498

3499

3500

3501

3502

3503

3504

3505

3506

3507

3508

3509

3510

3511

3512

3513

3514

3515

3516

3517

3518

3519

3520

3521

3522

3523

3524

3525

3526

3527

3528

3529

3530

3531

3532

3533

3534

3535

3536

3537

3538

3539

3540

3541

3542

3543

3544

3545

3546

3547

3548

3549

3550

3551

3552

3553

3554

3555

3556

3557

3558

3559

3560

3561

3562

3563

3564

3565

3566

3567

3568

3569

3570

3571

3572

3573

3574

3575

3576

3577

3578

3579

3580

3581

3582

3583

3584

3585

3586

3587

3588

3589

3590

3591

3592

3593

3594

3595

3596

3597

3598

3599

3600

3601

3602

3603

3604

3605

3606

3607

3608

3609

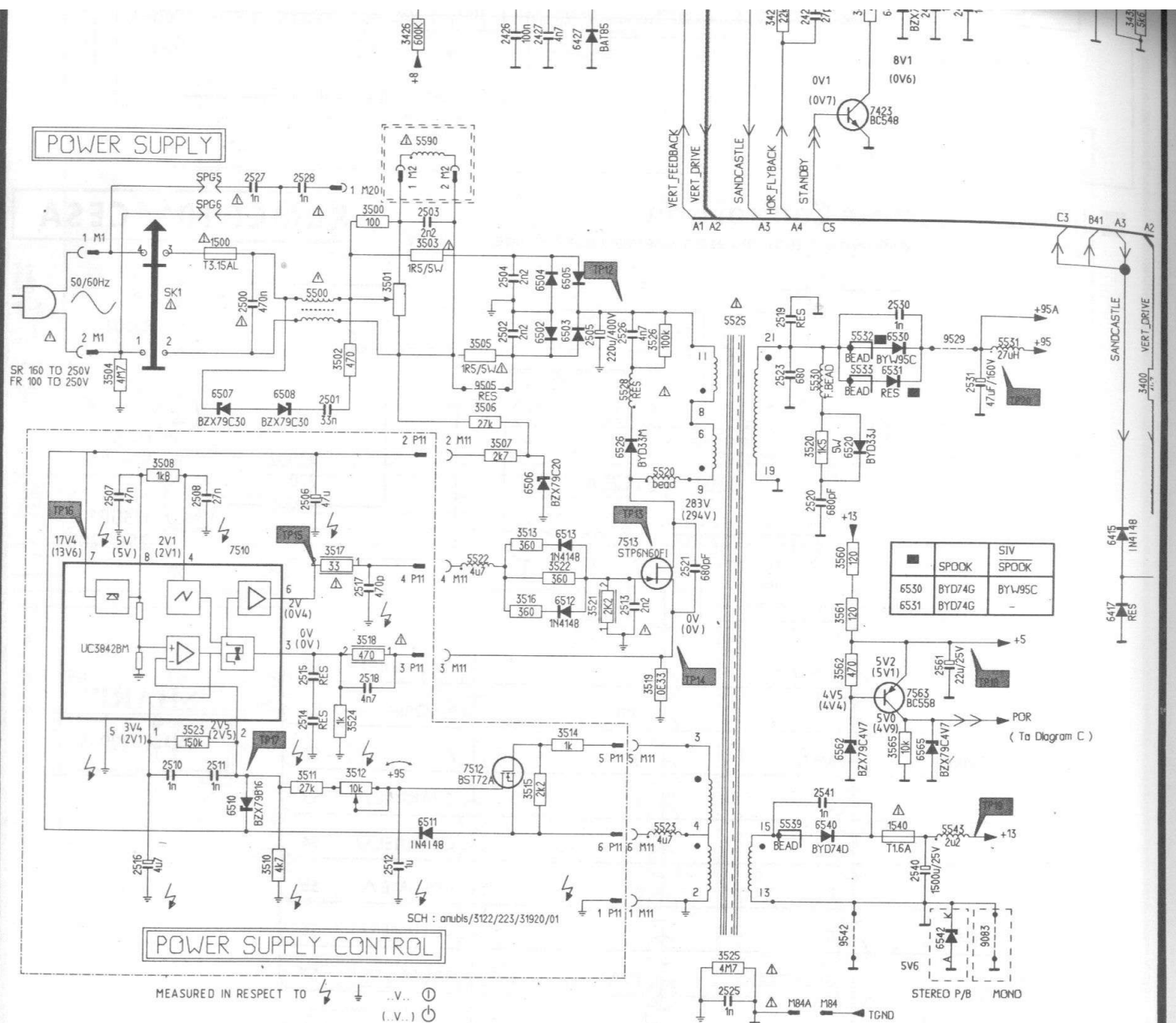
3610

3611

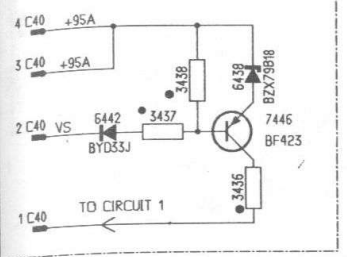
3612

3613

3614



SCAN PROT CCT SCH : 3139/123/35510/01



LINE

TO CRT PANEL L6

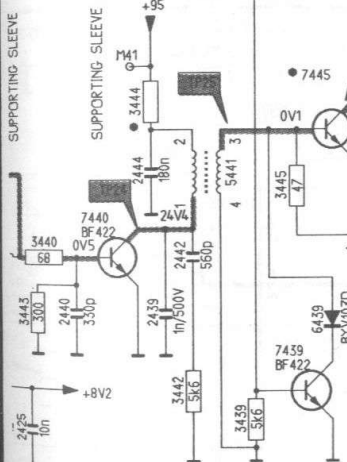
DIAGRAM E

TO CRT PANEL

DIAGRAM E

TO CRT PANEL L6

DIAGRAM E



88 V

0V1

7445

BYD34M

2446

2445

3445

2456

47pF

3456

2457

6447

BYD34M

2447

3447

2458

6448

BYD34M

2448

3448

2459

6449

BYD34M

2449

3449

2460

6450

BYD34M

2450

3450

2461

6451

BYD34M

2451

3451

2462

6452

BYD34M

2452

3452

2463

6453

BYD34M

2453

3453

2464

6454

BYD34M

2454

3454

2465

6455

BYD34M

2455

3455

2466

6456

BYD34M

2456

3456

2467

6457

BYD34M

2457

3457

2468

6458

BYD34M

2458

3458

2469

6459

BYD34M

2459

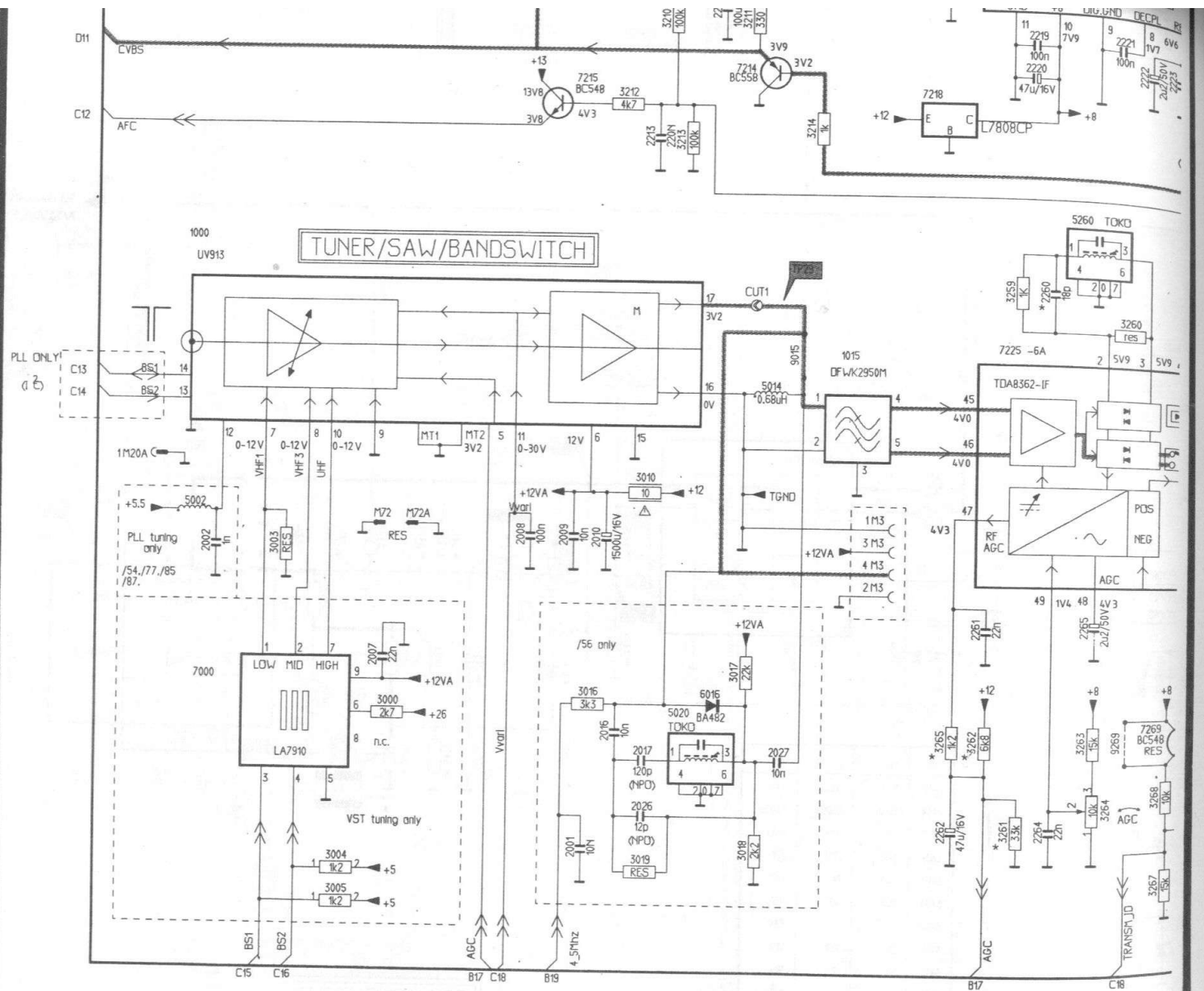
3459

2470

6460

BYD34M

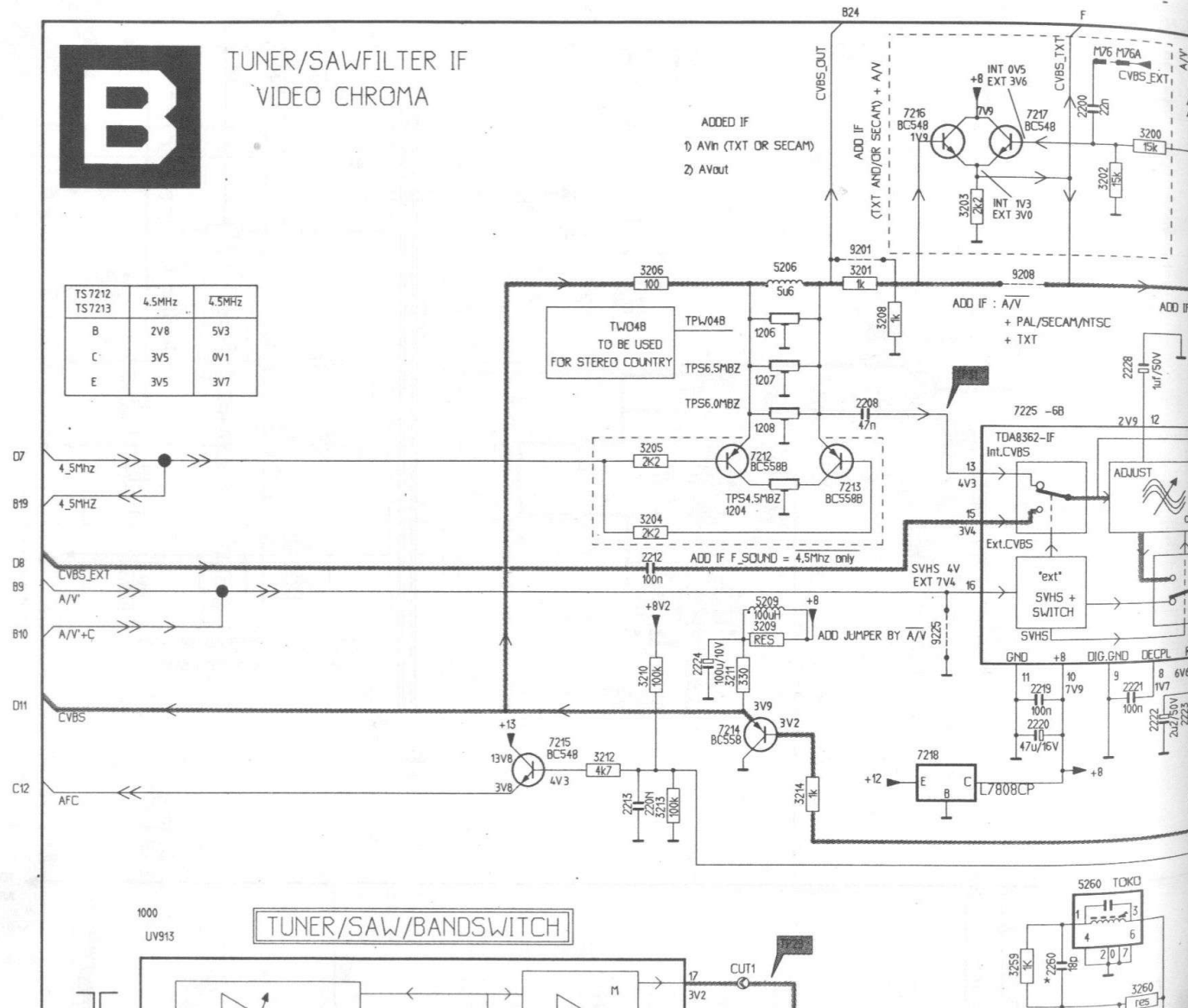
2460

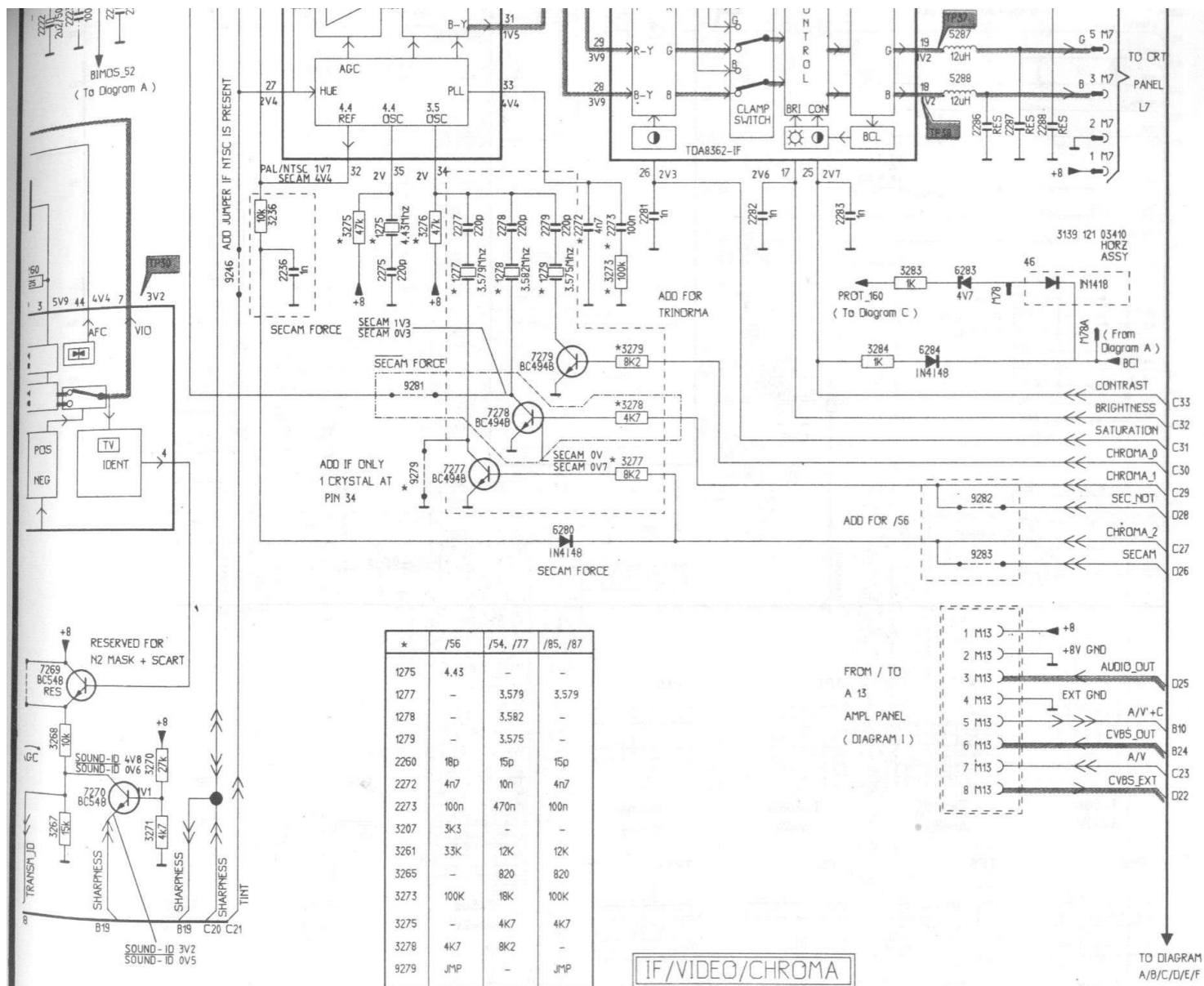




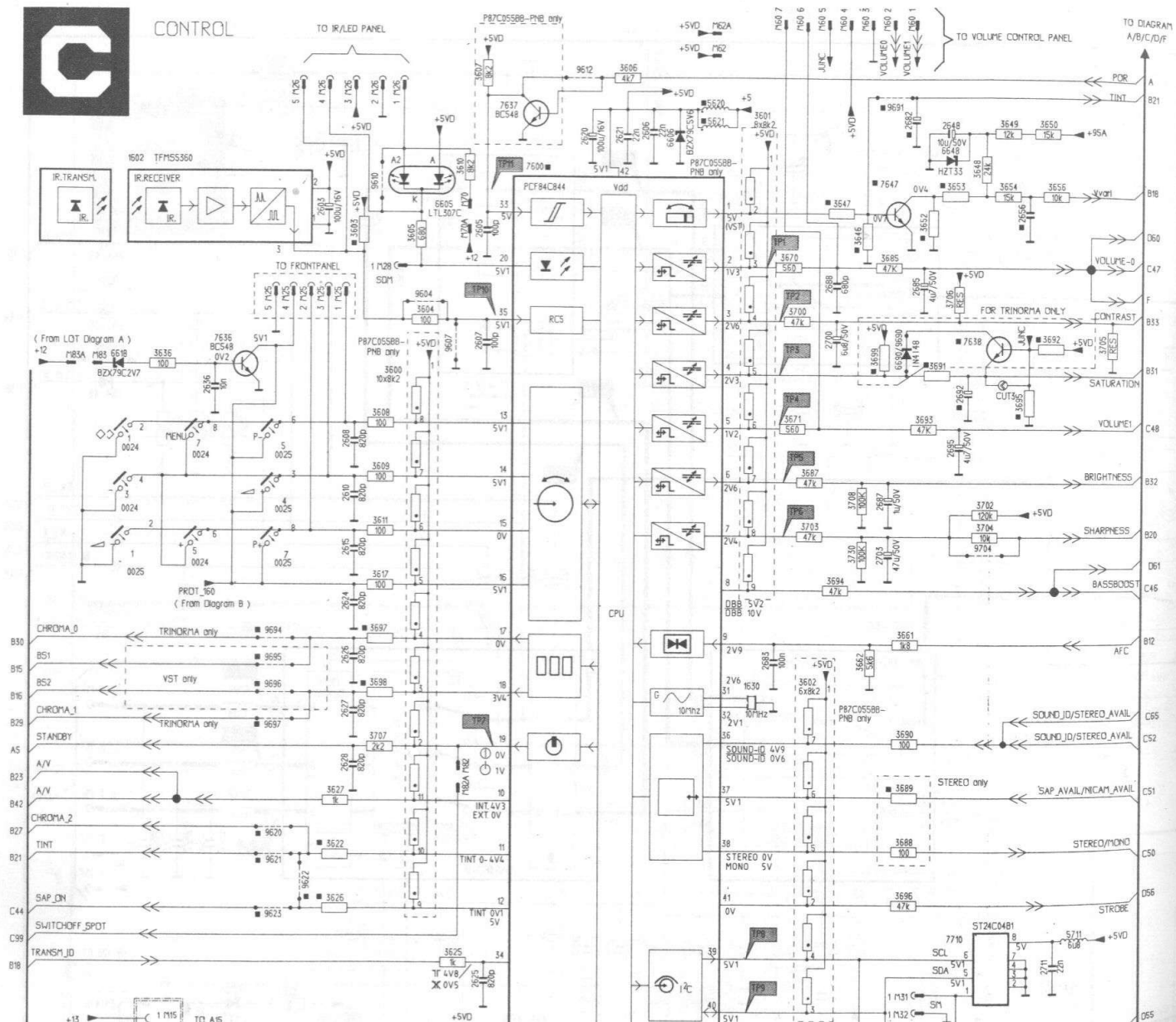
TUNER/SAWFILTER IF VIDEO CHROMA

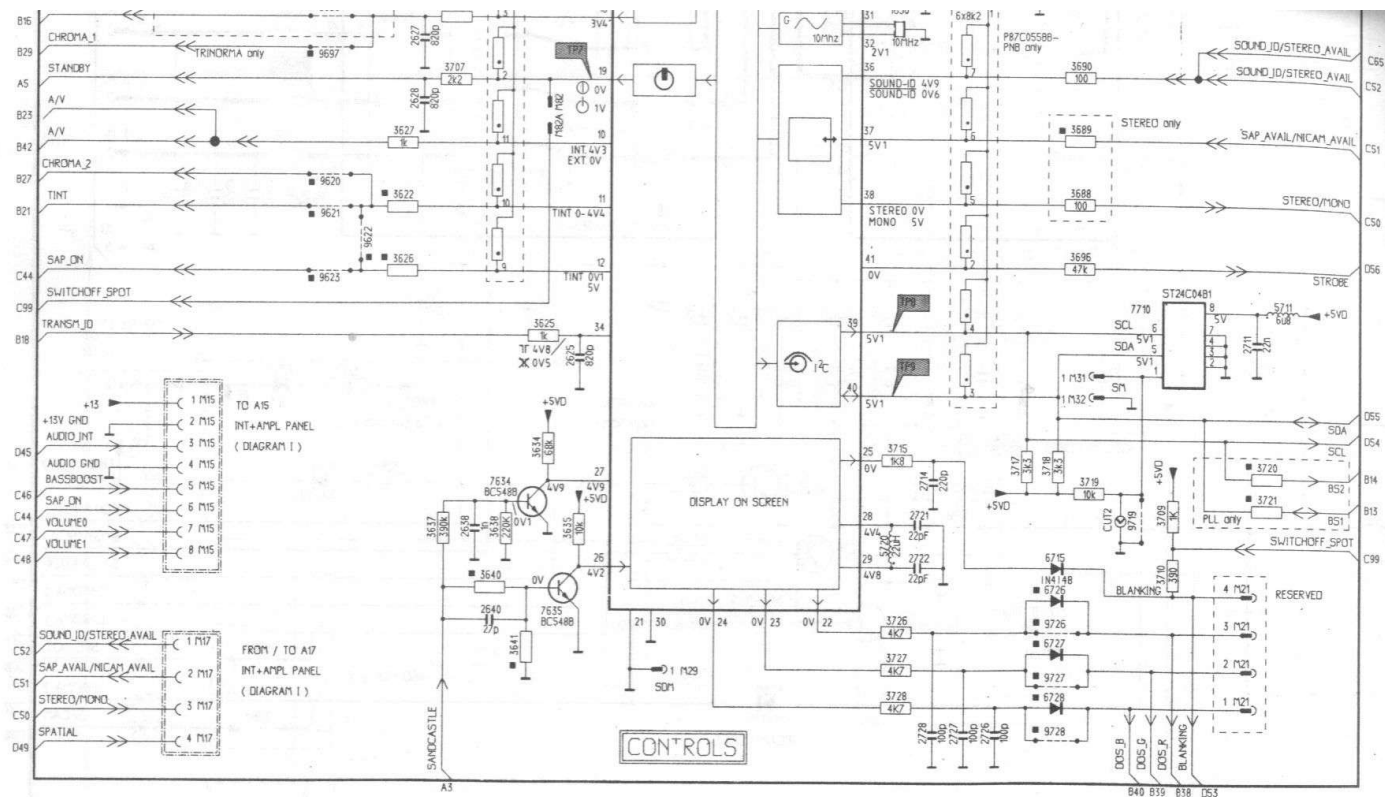
TS7212	4.5MHz	4.5MHz
TS7213	4.5MHz	4.5MHz
B	2V8	5V3
C	3V5	0V1
E	3V5	3V7



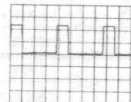


TO IR/ED PANEL



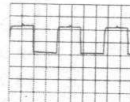


TP1



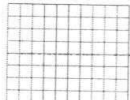
T=5us
Δv=2V

TP4



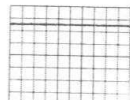
T=5us
Δv=2V

TP7



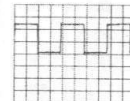
T=20ms
Δv=2V

TP10



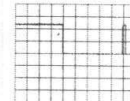
T20ms
Δv=2V

TP3



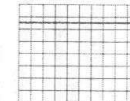
T=5us
Δv=2V

TP6



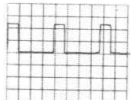
T=20ms
Δv=2V

TP9



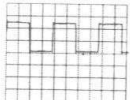
T=20ms
Δv=2V

TP2



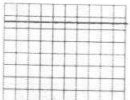
T=5us
Δv=2V

TP5



T=5us
Δv=2V

TP8



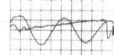
T=20ms
Δv=2V

TP11



T20ms
Δv=2V

TP13



0,1 V/div AC
1 μ s div

TP15



5V/div AC
10 μ s div

TP21



0,5V/div AC
20μs div

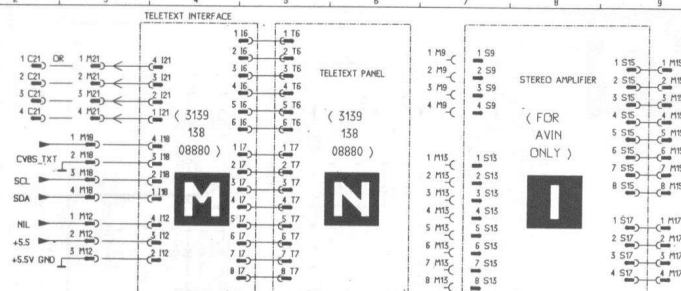
TP25



1V/div AC
20 μ s div

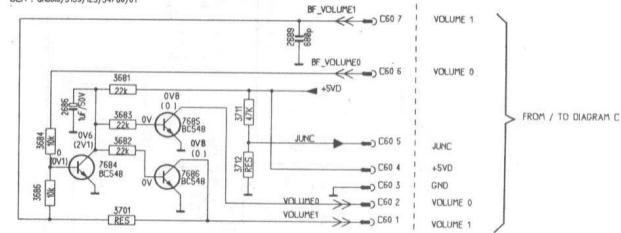
FEATURES

FEATURES



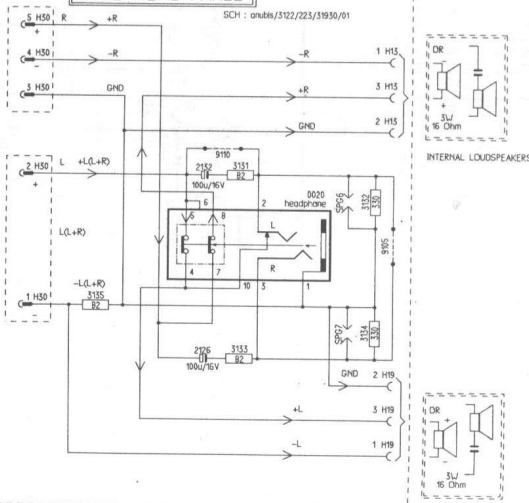
VOLUME CONTROL PANEL

SCH : onubis/3159/123/34780/01



HEADPHONE PANEL

SCH : prubis/5122/225/51950/01

STEREO
(R)STEREO
(R)

INTERNAL LOUDSPEAKERS

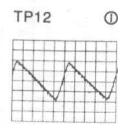
	MONO	STEREO
2125	-	100u/16V
2126	-	100u/16V
3131	-	82
3132	56	330
3133	-	82
3134	-	330
3135	82	-
9105	JMP.	-
9110	JMP	-
X13	-	1/2B
X14	1/2B	1/2B

MONO (L+R)
STEREO (L)

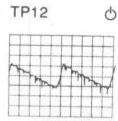
MONO (L+R)
STEREO (L)

INTERNAL LOUDSPEAKERS

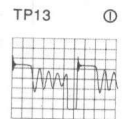
Power supply + Synchronisation + Deflection



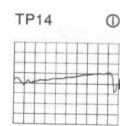
2V/div AC
2ms div



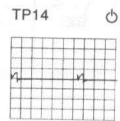
0,5V/div AC
2ms div



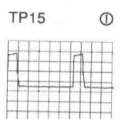
100V/div AC
5μs div



1V/div AC
0,5μs div



1V/div AC
5μs div



5V/div AC
5μs div

TP16 = DC 18V
①

TP16 = DC 17V5
②

TP17 = DC 2V5
①

TP17 = DC 2V5
②

TP18 = DC 6V
①

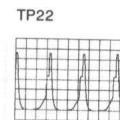
TP18 = DC 6V
②

TP19 = DC 13V
①

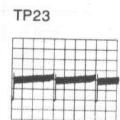
TP19 = DC 13V
②

TP20 = DC 116V
①

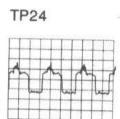
TP20 = DC 122V
②



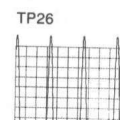
2V/div AC
20μs div



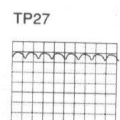
2V/div AC
5ms div



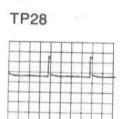
0,2V/div AC
20μs div



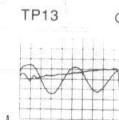
100V/div AC
20μs div



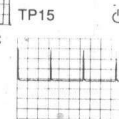
T=50μs
Δv=5v



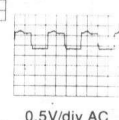
T=5ms
Δv=10v



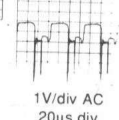
0,1V/div AC
1μs div



5V/div AC
10μs div



0,5V/div AC
20μs div



1V/div AC
20μs div

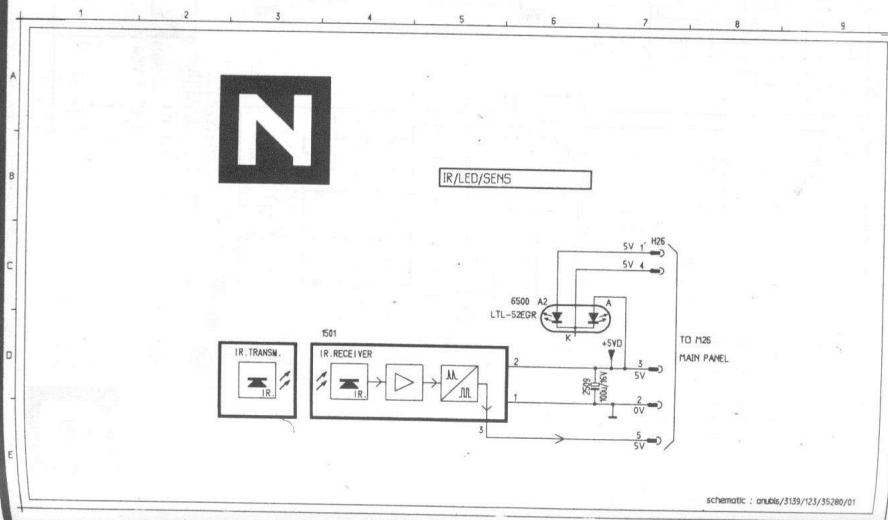


FEATURES

...V... SOUND
...V... MUTE

FROM
S30

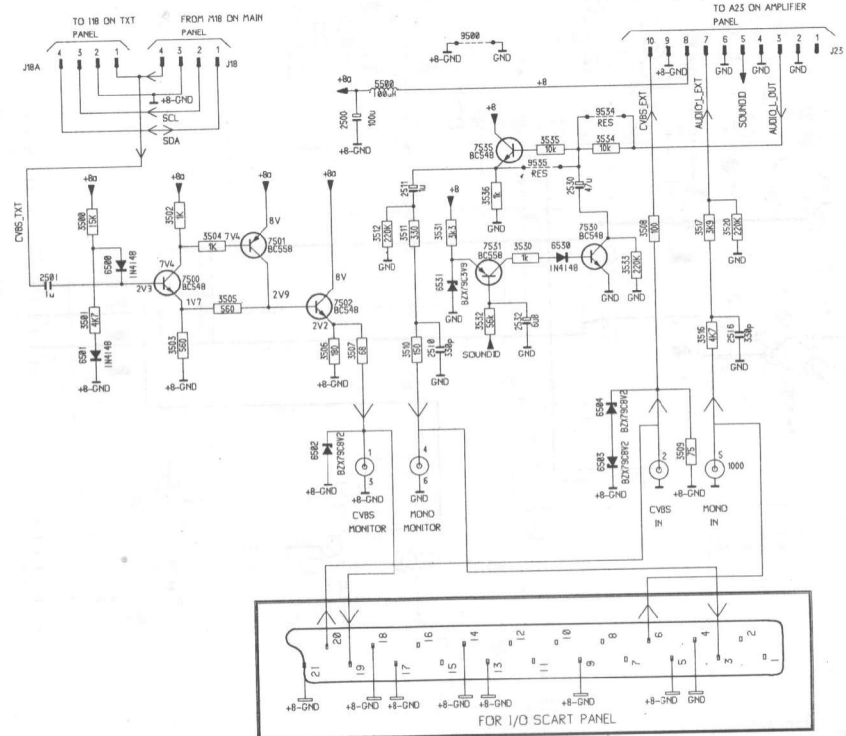
FROM
R30
DE
S30



J1

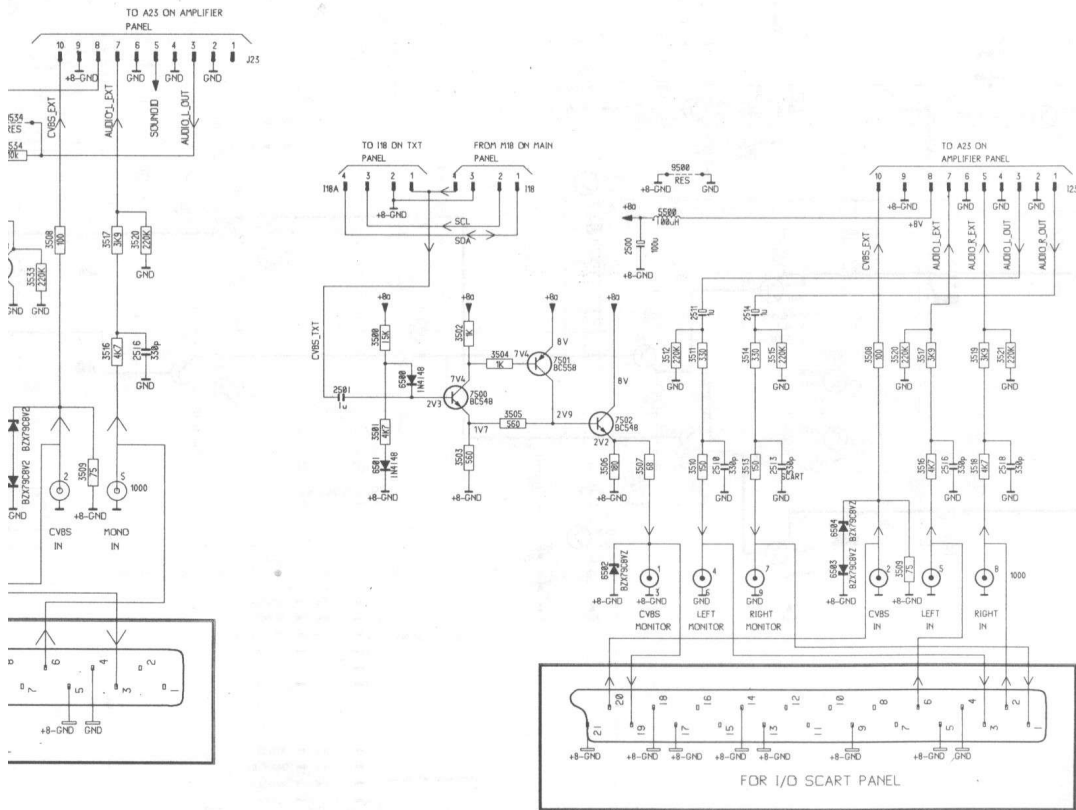
FOR MONO ONLY

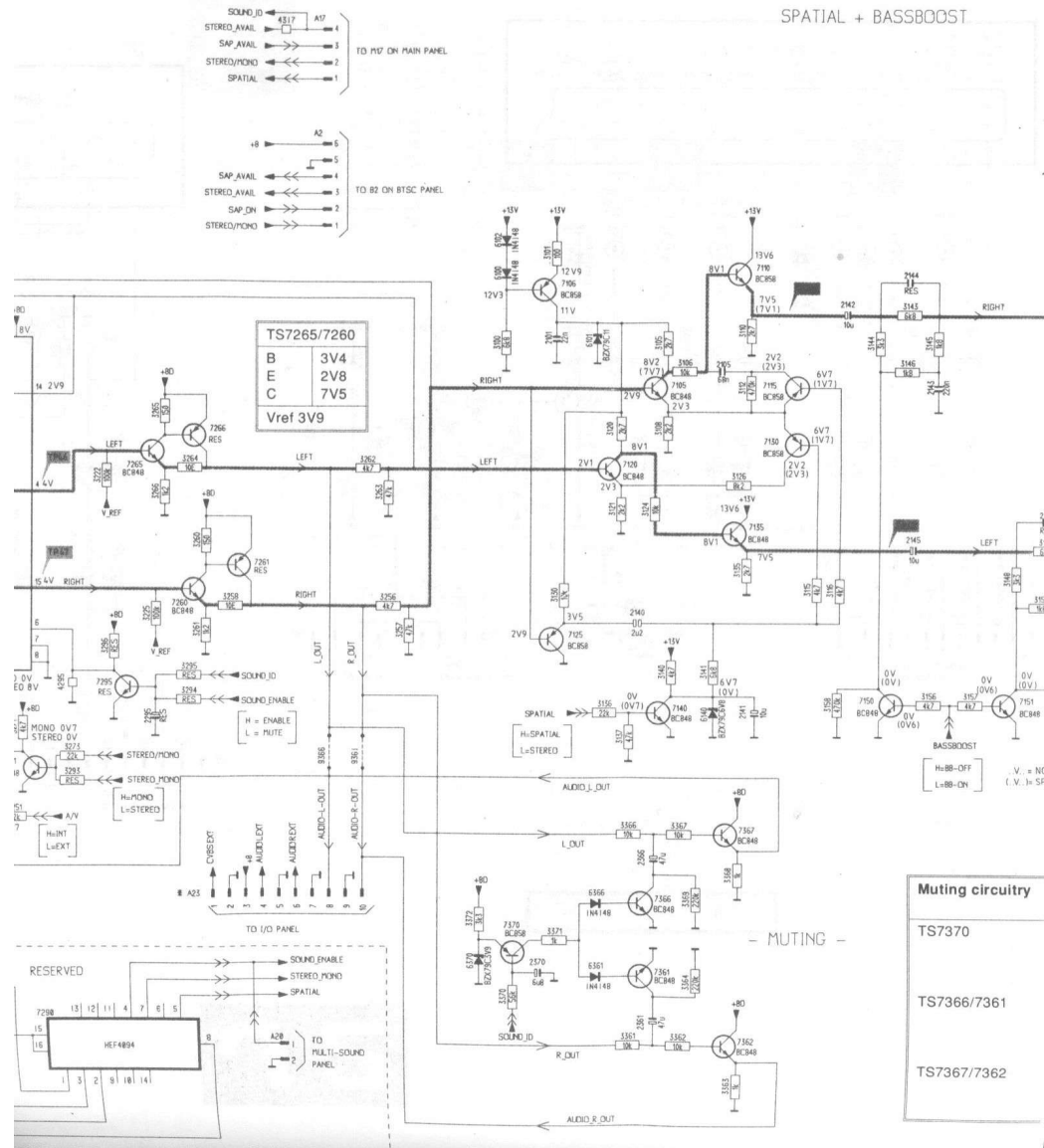
J2

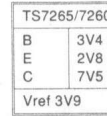


J2

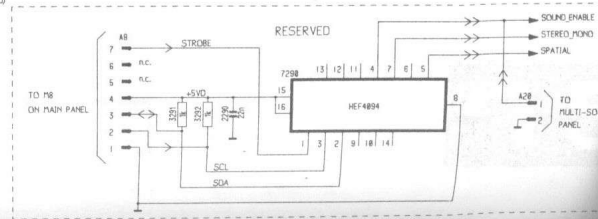
FOR STEREO ONLY





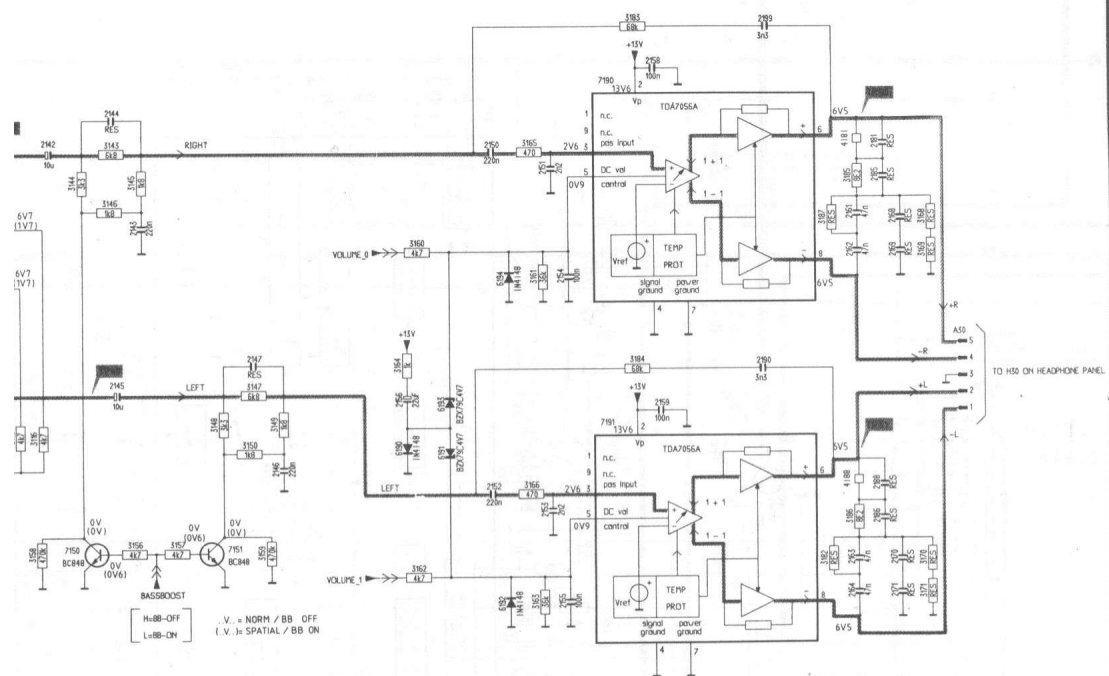
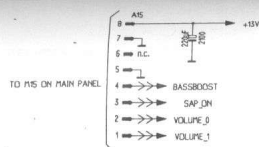


A	MONO OFFAIR		STEREO OFFAIR	
	MONO	STEREO	2CS	BTSC
AV IN/OUT	MONO	STEREO	2CS	BTSC
4211	NO	NO	NO	YES
4222	NO	YES	NO	NO
4225	YES	YES	NO	NO
9266	YES	NO	NO	NO



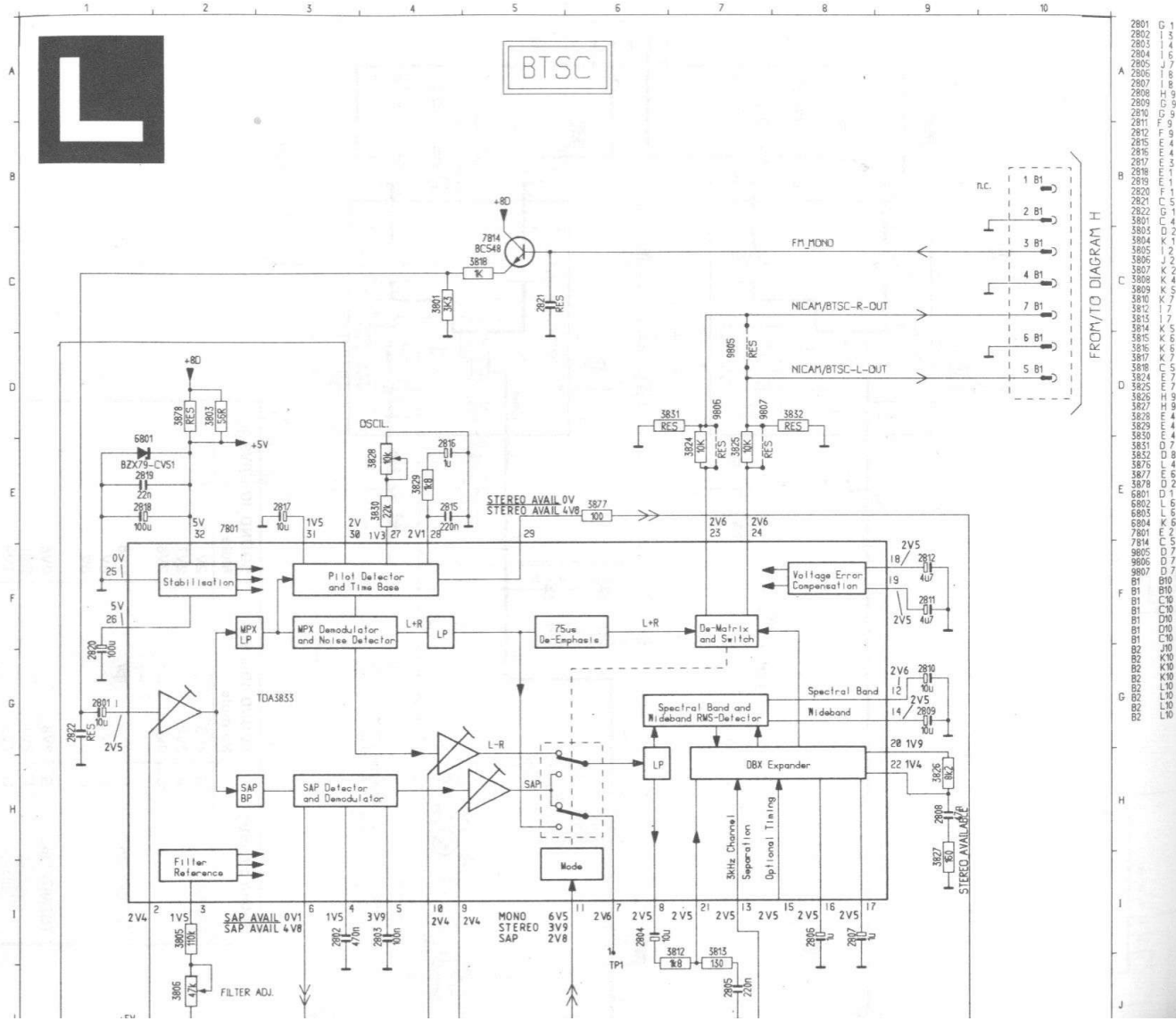
ATIAL + BASSBOOST

STEREO AMPLIFIER



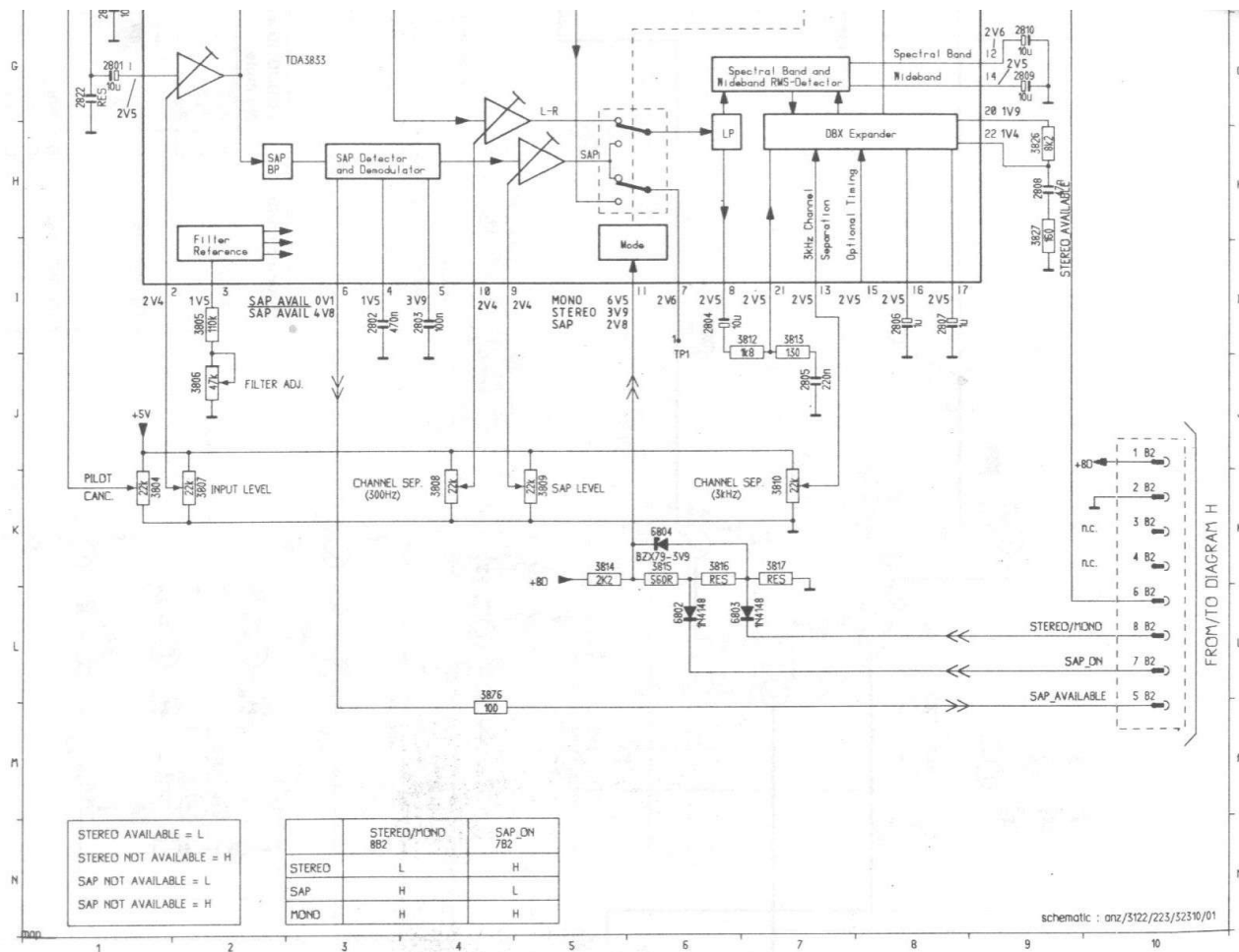
Muting circuitry		SOUND_ID = 4V9 No mute	SOUND_ID = 0V8 Mute
TS7370	B	4V9	2V
	E	3V2	2V7
	C	0V	2V6
TS7366/7361	B	0V	0V8
	E	0V	0V
	C	0V	0V
TS7367/7362	B	2V8	2V8
	E	2V1	2V1
	C	7V9	7V9

schematic : anabiz/9139/125/SS500/0



2801	C	1
2802	C	2
2803	C	3
2804	C	4
2805	C	5
2806	C	6
2807	C	7
2808	C	8
2809	C	9
2810	C	10
2811	C	11
2812	C	12
2813	C	13
2814	C	14
2815	C	15
2816	C	16
2817	C	17
2818	C	18
2819	C	19
2820	C	20
2821	C	21
2822	C	22
2823	C	23
2824	C	24
2825	C	25
2826	C	26
2827	C	27
2828	C	28
2829	C	29
2830	C	30
2831	C	31
2832	C	32
2833	C	33
2834	C	34
2835	C	35
2836	C	36
2837	C	37
2838	C	38
2839	C	39
2840	C	40
2841	C	41
2842	C	42
2843	C	43
2844	C	44
2845	C	45
2846	C	46
2847	C	47
2848	C	48
2849	C	49
2850	C	50
2851	C	51
2852	C	52
2853	C	53
2854	C	54
2855	C	55
2856	C	56
2857	C	57
2858	C	58
2859	C	59
2860	C	60
2861	C	61
2862	C	62
2863	C	63
2864	C	64
2865	C	65
2866	C	66
2867	C	67
2868	C	68
2869	C	69
2870	C	70
2871	C	71
2872	C	72
2873	C	73
2874	C	74
2875	C	75
2876	C	76
2877	C	77
2878	C	78
2879	C	79
2880	C	80
2881	C	81
2882	C	82
2883	C	83
2884	C	84
2885	C	85
2886	C	86
2887	C	87
2888	C	88
2889	C	89
2890	C	90
2891	C	91
2892	C	92
2893	C	93
2894	C	94
2895	C	95
2896	C	96
2897	C	97
2898	C	98
2899	C	99
2900	C	100

FROM/TO DIAGRAM H



PHILIPS

MOD:21GX1565/
21GX1865/14GX1515/
14GX1815/20GX1555/
20GX1855