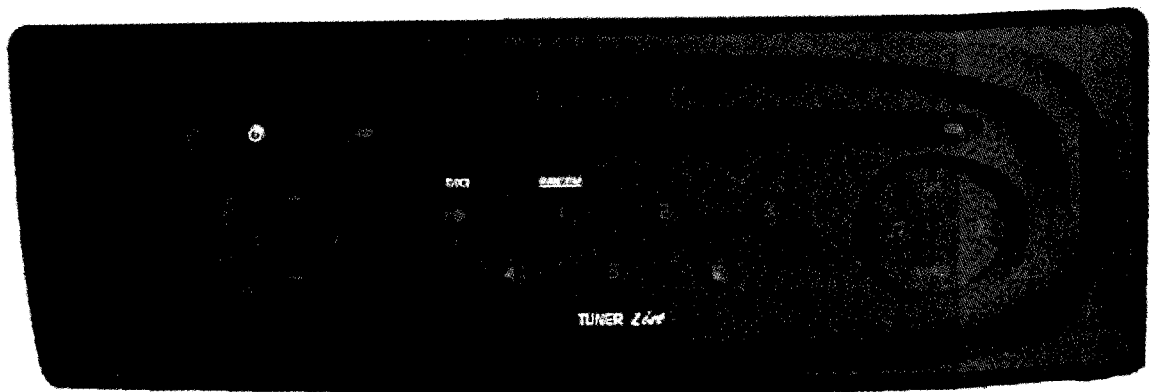
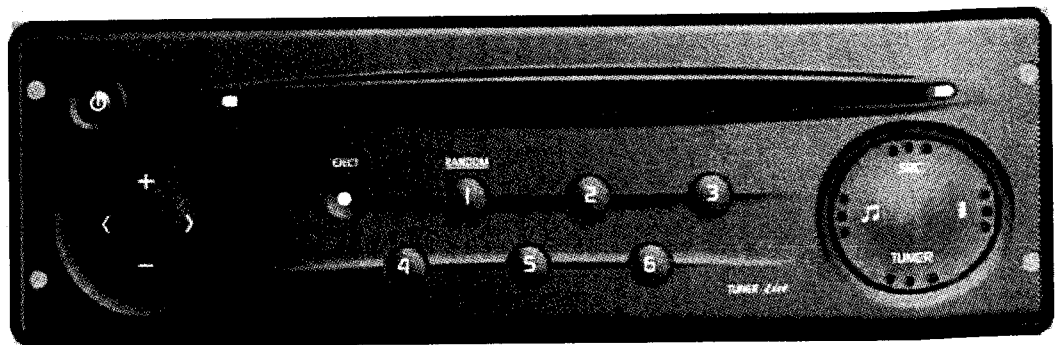


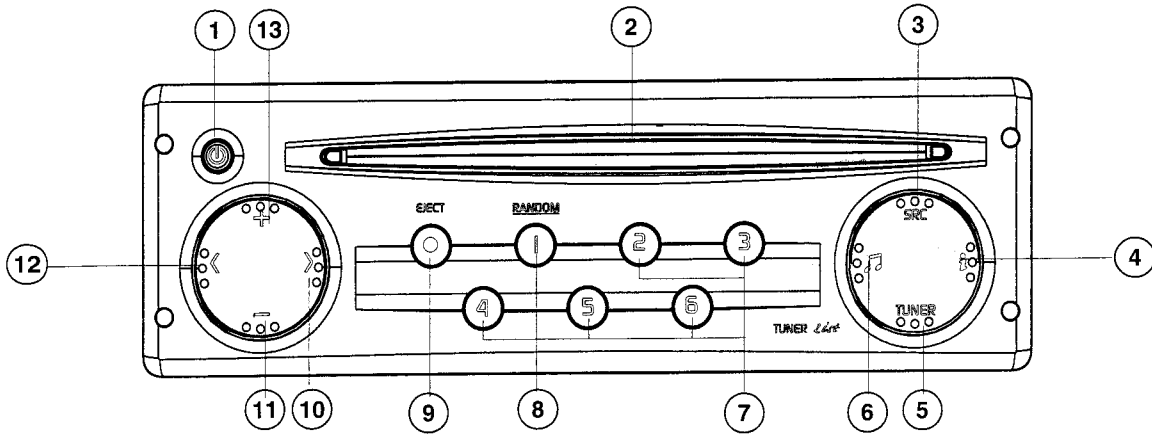
Service Manual



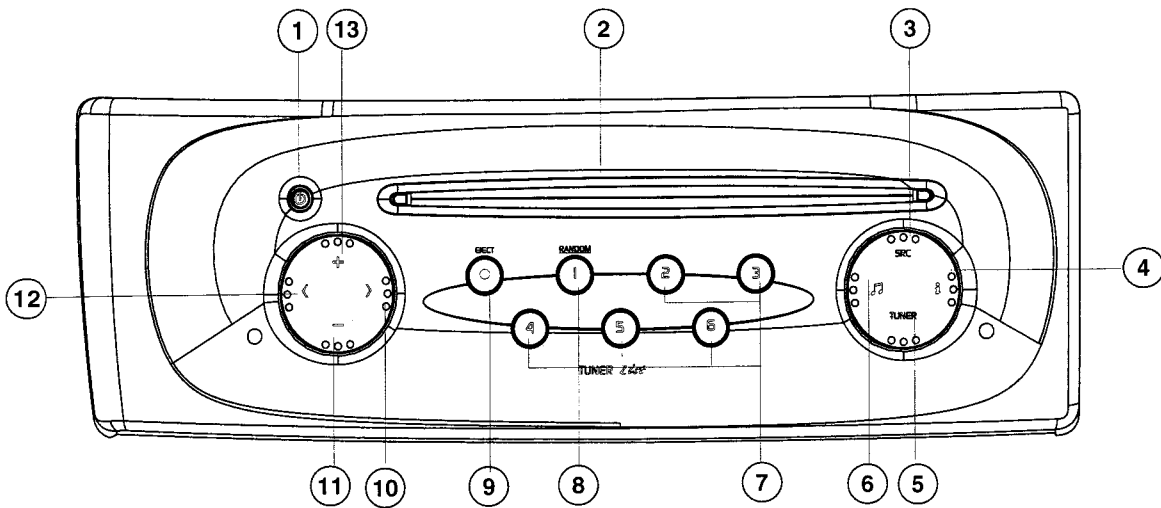
Contents	page
Front-page	1
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Controls	3
Connections	4
Remote control	5
Radio information	6
Special fonctions	7
Checks and alignements	8
Power amplifier part schematic diagram	9
CD part schematic diagram.....	10
Power supply part schematic diagram.....	11
Main PWB layout side A and B.....	12
Sound process part schematic diagram	13
Microcontroller part schematic diagram	14
Tuner part schematic diagram	15
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Exploded view - Mechanical partslist	18
Main electrical partslist.....	19 to 20

CONTROLS

Front



22DC279/62
22DC279/62F
22DC279/62Z

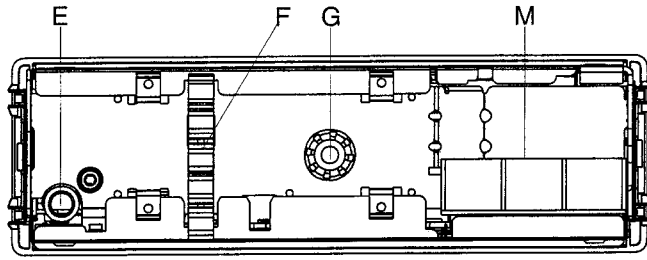


22DC279/62P
22DC279/62R
22DC279/62T

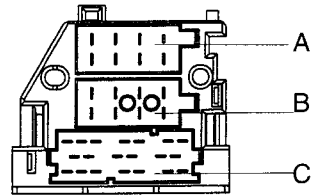
- 1 ON / OFF
- 2 DISK OPENING
- 3 SOURCE
- 4 INFO
- 5 TUNER
- 6 BASS/TREBLE - BAL/FADER
- 7 PRESET 2,3,4,5,6
- 8 PRESET 1 / RANDOM
- 9 EJECT DISK BUTTON
- 10 SEARCH UP
- 11 VOL -
- 12 SEARCH DOWN
- 13 VOL +

22DC279/62...

CONNECTIONS

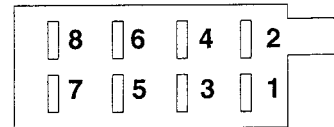


Top view M



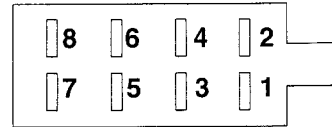
- A1 Speed
- A2 N.C
- A3 Tel mute
- A4 Power permanent supply
- A5 Remote antenna +
- A6 External illumination +
- A7 Non power ignition supply
- A8 Power ground

A : POWER SUPPLY



- B1 Rear right +
- B2 Rear right -
- B3 Front right +
- B4 Front right -
- B5 Front left +
- B6 Front left -
- B7 Rear left +
- B8 Rear left -

B : LOUDSPEAKER SUPPLY



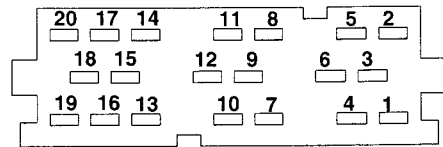
- C1-1 Ext SDA
- C1-2 Ext SCL
- C1-3 Ext MRQ
- C1-4 NC
- C1-5 Radio on
- C1-6 Ground
- C2-7 NC
- C2-8 NC
- C2-9 NC
- C2-10 NC
- C2-11 NC
- C2-12 NC
- C3-13 CD UART TXD
- C3-14 CD UART RXD
- C3-15 CD UART Gnd
- C3-16 + 12v PERMANENT
- C3-17 Remote antenna +
- C3-18 SPDIF input line
- C3-19 SPDIF Gnd
- C3-20 SPDIF Gnd

Yellow Connector

Green Connector

Blue Connector

C : Line - out GND



C3 : Digital CD changer (UART + SPDIF)

E Aerial plug

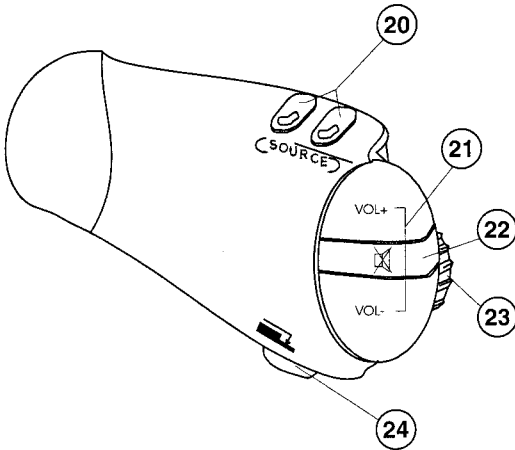
E : AERIAL PLUG SLIDE IN

F Fastening cable

G : Buffer mounting

22DC279/62...

REMOTE CONTROL



20	Change waveband/source	
21	Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated	
22	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	All others modes: Mute / Demute
23	In code entry mode: Selection digits Sec Code	Changing preset / Track selection
24	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	In radio mode: SP : search UP LP : Starts Autostore

SP : Short press LP : Long press (>2s)

TECHNICAL DATA

GENERAL

Power supply : from 10.5 to 16V DC
Dimensions : 180x150x51 mm

FEATURES

FM-LW-MW-SW-RDS (EON).

Carequalization function : yes
Dolby Noise Reduction : yes
Music Search System : yes
Remote control : yes
Remote display : yes
Security code : yes
Speed dependant volume : yes
Telephone mute : yes

RADIO

LW : 144-288 KHz
MW : 531-1629 KHz
FM : 87.5-108 MHz
Sensitivity 26dB S/N : <40 μV (LW)
: <30 μV (MW)
: 1,8 μV (FM)
Limitation α-3dB : 4,5 μV +/- 3μV

CD

CD mechanism : CDM-M3/4.4

AMPLIFIER

Output power : 4x15 W / 4 Ω (THD = 10%)
Fader control : ≥40 dB
Balance control : ≥40 dB
Source separation : ≥60 dB
Input sensivity (CD in) : 150 mV ± 2 dB

RADIO - EXTRACT OF THE DFU

You are the owner of a Renault World Radio Receiver, a sophisticated multi-band radio enabling you access many frequencies and wave bands from all over the world.

Your radio is factory set for the country of purchase, however if you travel abroad with your vehicle to another continent it is advisable to re-set your radio to that continent's radio frequency range.

Caution : Before commencing with this sequences it is important to ensure that you have the preset code for your radio.

To select a continent

1. Turn off the set .
2. Press keys 2 and 5 simultaneously, whilst pressing these keys switch on the set.
3. Wait for 2 minutes until prompted to enter the set code.
4. Enter the set code
5. Use the thumbwheel on the satellite to access the desired continent.


Others

America

Japan

Asia

Arabia

6. When you have selected the desired continent long press .


Then continue the sequence to select curves (auto equalisation).

The curve sequence is dependent on the type of car, refer to your car manual or dealer for the correct curve number.


Using the thumbwheel select the desired curve.

Curve	0	=OFF
	1	=Empty
	2	=Clio or similar
	3	=Megane or similar
	4	=Laguna or similar
	5	=Safrane or similar

Except if the vehicle manual recommends an other selection.

Long press  to leave the mode.

7. Select REAR ON/OFF (loadspeakers).

Press  to validate, after this procedure the set will play normally.

22DC279/62X

CHECKS AND ALIGNEMENTS

For general test instruction, please refer to the manual "

Current and voltage

1) Supply voltages - SET OFF-

SET OFF	Voltage	Total current +Acc ON	Total current +Acc OFF	μP supply pin 30	μP V-LOW pin 64
Acc supply	+12.6V	< 3mA	not relevant	Min 4,8V Max 5,2V	Max 0,8V
Perm Supply	+12.6V	< 2mA	<2 mA		

2) Supply voltage - SET ON-

Reset μP pin 25	5V supply TDH3608TH pin 15		V-LOW μP pin 64		8,5V TDA3608TH pin 4		5V TDA3608TH pin 5		EEPROM supply pin 8	
Max 0,8V	min 4,8V	max 5,2V	min 0,8V	max 5,2V	min 8V	max 9V	min 4,8V	max 5,2V	min 4,8V	max 5,2V

CDSP Digital supply		CDSP analog supply	
min 3.1V	max 3.5V	min 3,1V	max 3,5V

Consumption	FM	CD	FM + 4 x 5 W	FM + 4 x 15 W	FM + 4 x 17 W
DC 259/62	500 mA	700 mA	5.0 A	8.0 A	
DC 259/62L	700 mA	900 mA	5.0 A		10.0 A
Limits	+/- 200 mA	+/- 200 mA	+/- 500 mA	+/- 1 A	+/- 1 A

3) Reference oscillator frequencies

Devices	TMP93PW44DF pin 22 & 23	SAA1305T pin 14 & 15	SAA7708
Frequency	14,74 MHz	32,768 Khz	11,289 Mhz
Cristal Accuracy	+/- 30 PPM	+/- 15 %	+/- 60 PPM

Checks:

1) FM

FM mute	98 MHz 1mV	output at load resistor R & L = 775 mV = REF
	no signal	output should be < -24 dB (REF - 24 dB)

Limiting point α-3dB	RANGE	INPUT	NOMINAL	MIN	MAX
	98 Mhz	1Khz	5 μV	3 μV	8 μV

Search levels Input 98 MHz	Min : 10 μV	Nom : 18 μV	Max : 25 μV
----------------------------	-------------	-------------	-------------

2) AM

Sensitivity at 26dB S+N / N	162 khz	m = 30 %	1 khz	< 38 μV
	1053 khz			< 30 μV

No alignment is needed for radio part. The tuner module is pre-aligned in the factory. Dolby alignment, crosstalk alignment and FM DC level curve learning procedure are performed via a special equipment and software, not yet available in Service. Some values are stored in the EEprom. The EEprom available in service will contain mean values, that could affect slightly the performance of the set. It is the only solution until further notice. Consequence: If you change the tuner module, change also the EEprom.

3) CD part

Test CD	Test	Result
Eccent-music 150um 4822 397 30279	Insert disk and play track 01	No failure
Vertical deviation 4822 397 30282	Check loading, display of number of tracks and total time. Select track no 9 time 00.20 listen to the disk during 4 seconds	No electrical or mechanical noise
Sub chassis VII A 7104 099 28350	Check loading, display of number of track and total time listen to track 01 during 5 seconds. Track 02 check left and right channel. Track 8 time 00.20 listen to disk during 10 seconds.	Good sound quality and no noise. No failure. Good quality, no jump and no noise.
Commercial 8 cm CD	Check playability.	No failure.

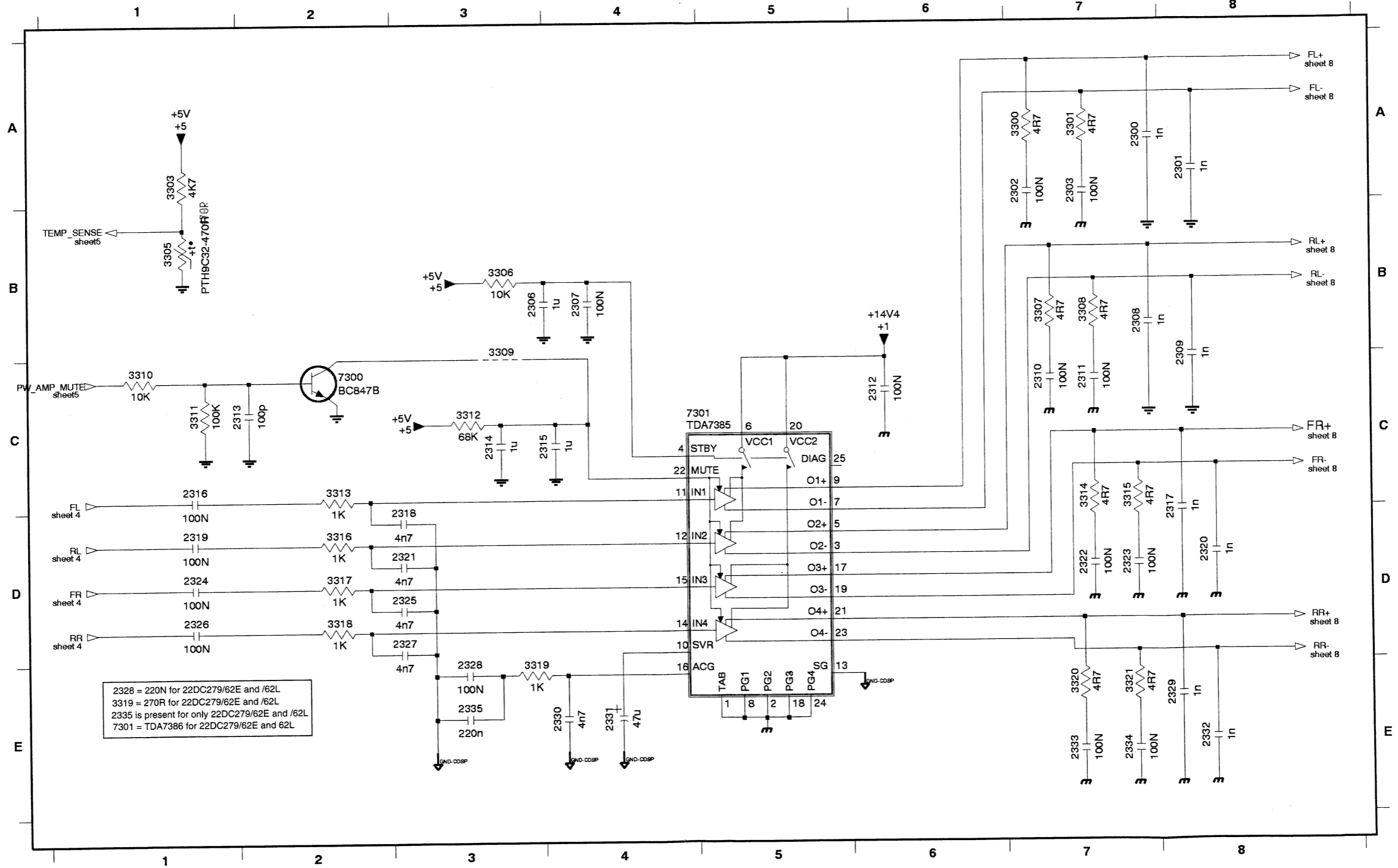
Test CD	Test : CROSS-TALK		Result
Audio signal disk 1 4822 397 30184	Compression Off	Crosstalk track 67 and 71	Crosstalk < -65dB
	Compression On		Crosstalk < -60dB (comp 1 by default)
Test CD	Test: TOTAL HARMONIC DISTORTION		Result
20Khz filter 7104 087 04981	Compression Off	track 67 and 71	Distortion < 0.3 %
	Compression On		Distortion < 10%

Signal to noise ratio

A weighted filter, track 1 versus track 49 of disk 1	
Compression Off	S / N > 80dB
Compression On (default 1)	S / N > 70dB

POWER AMPLIFIER PART

FL.....C1 FL-.....A8 FR+.....C8 PW_AMP_MUTE.....C1 RL+.....B8 RR.....D1 RR-.....D8
 FL+.....A8 FR.....D1 FR-.....C8 RL.....D1 RL-.....B8 RR+.....D8 TEMP_SENSE.....B1



2328 = 220N for 22DC279/62E and /62L
 3319 = 270R for 22DC279/62E and /62L
 2335 is present for only 22DC279/62E and /62L
 7301 = TDA7386 for 22DC279/62E and 62L

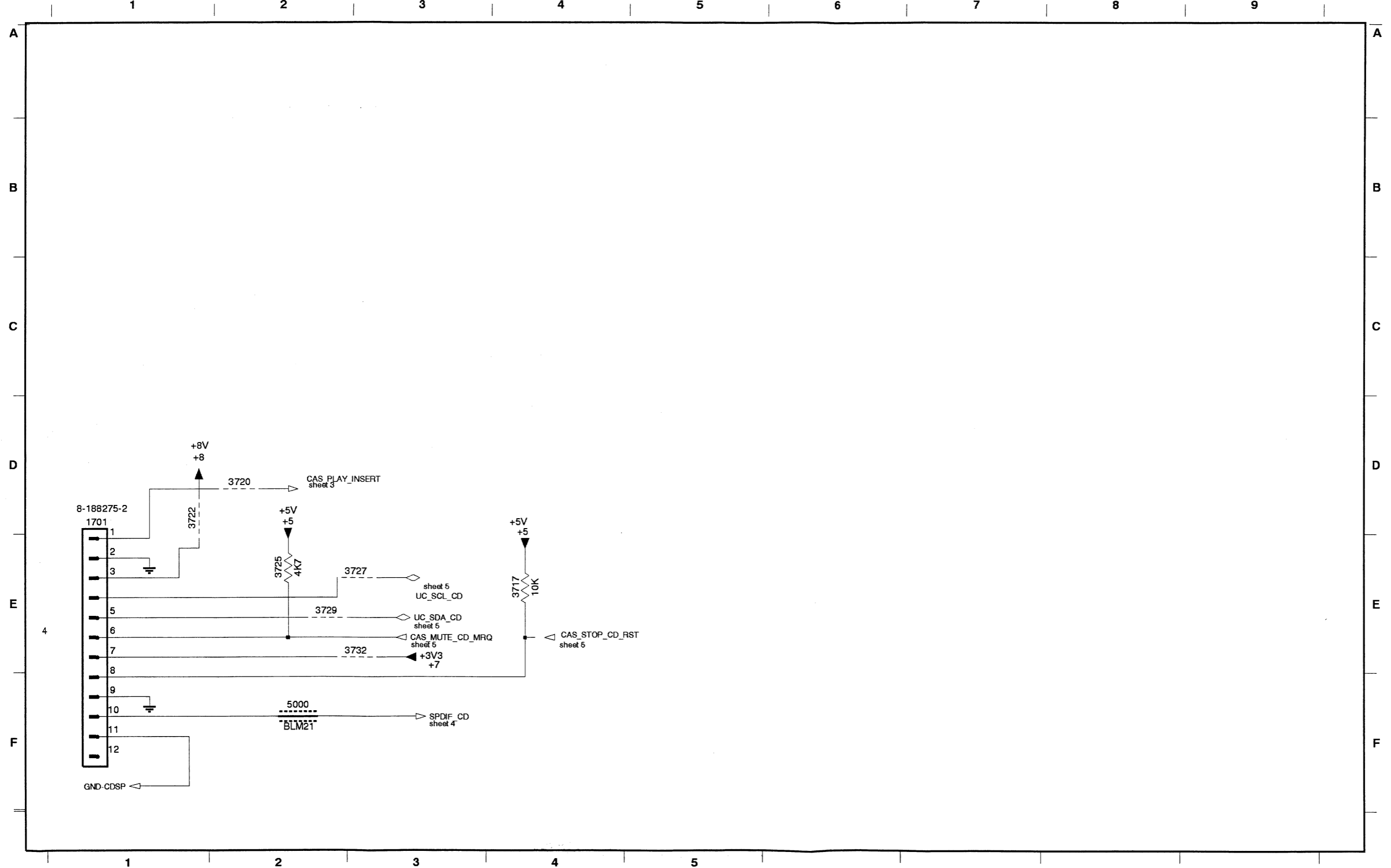
- 2300 A7
- 2301 A8
- 2302 A7
- 2303 A7
- 2306 B3
- 2307 B4
- 2308 B7
- 2309 C8
- 2310 C7
- 2311 C7
- 2312 C6
- 2313 C2
- 2314 C3
- 2315 C4
- 2316 C1
- 2317 D8
- 2318 D3
- 2319 D1
- 2320 D8
- 2321 D3
- 2322 D7
- 2323 D7
- 2324 D1
- 2325 D3
- 2326 D1
- 2327 D3
- 2328 E3
- 2329 E8
- 2330 E4
- 2331 E4
- 2332 E8
- 2333 E7
- 2334 E7
- 2335 E3
- 3300 A7
- 3301 A7
- 3303 A1
- 3305 B1
- 3306 B3
- 3307 B7
- 3308 B7
- 3309 B3
- 3310 C1
- 3311 C1
- 3312 C3
- 3313 C2
- 3314 C7
- 3315 C7
- 3316 D2
- 3317 D2
- 3318 D2
- 3319 E3
- 3320 E7
- 3321 E7
- 7300 C2
- 7301 C4

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CD PART

CAS_MUTE_CD_MRQ.....E3 UC_SCL_CD.....E3 SPDIF_CD.....F3
 CAS_PLAY_INSERT.....D2 UC_SDA_CD.....E3

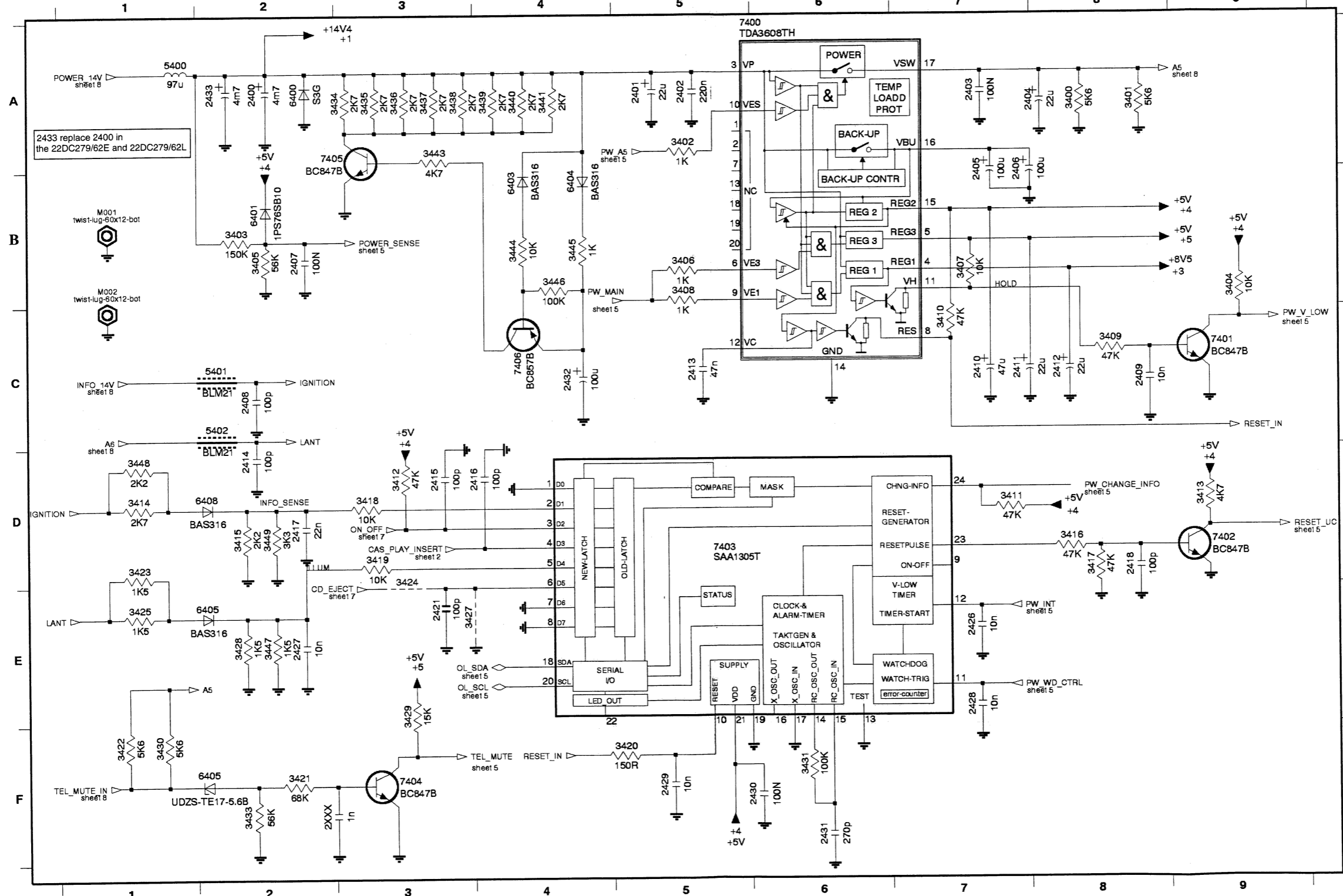
1701 D1
 3717 D5
 3720 D2
 3722 D1
 3725 E2
 3727 E3
 3729 E2
 3732 E3
 5000 F2



22DC279/62...

POWER SUPPLY PART

A5.....A9 CD_EJECT.....D3 INFO_SENSE.....D2 OL_SCL.....E4 POWER_SENSE.....B3 PW_CHANGE_INT.....E8 PW_WD_CTRL.....E8 TEL_MUTE.....F3
 A6.....C1 IGNITION.....C2/D1 LANT.....C2/E1 OL_SDA.....E4 PW_A5.....A5 PW_CHANGE_MAIN.....B5 RESET_IN.....C9/F4 TEL_MUTE_IN.....F1
 CAS_PLAY_INSERT.....D3 INFO_14V.....C1 ON_OFF.....D3 POWER_14V.....A1/C1 PW_CHANGE_INFO.....D8 PW_V_LOW.....C9 RESET_UC.....D9



- 2400 A2 3433 F2
- 2401 A5 3434 A3
- 2402 A5 3435 A3
- 2403 A7 3436 A3
- 2404 A8 3437 A3

- 2405 B7 3438 A3
- 2406 B7 3439 A4
- 2407 B2 3440 A4
- 2408 C2 3441 A4
- 2409 C8 3443 A3

- 2410 C7 3444 B4
- 2411 C7 3445 B4
- 2412 C8 3446 B4
- 2413 C5 3447 E2
- 2414 D2 3448 D1

- 2415 D3 3449 D2
- 2416 D4 5400 A1
- 2417 D2 5401 C2
- 2418 D8 5402 C2
- 2421 E3 6400 A2

- 2426 E7 6401 B2
- 2427 E2 6403 B4
- 2428 E7 6404 B4
- 2429 F5 6405 F2
- 2430 F6 6408 D2

- 2431 F6 6409 E2
- 2432 C4 7400 A5
- 2433 A2 7401 C9
- 2434 F2 7402 D9
- 3400 A8 7403 D5

- 3401 A8 7404 F3
- 3402 A5 7405 A3
- 3403 B2 7406 C4
- 3404 B9 M001 B1
- 3405 B2 M002 B1

- 3406 B5 3406 B5
- 3407 B7 3408 B5
- 3408 B5 3409 C8
- 3409 C8 3410 C7

- 3411 D7 3412 D3
- 3412 D3 3413 D9
- 3413 D9 3414 D1
- 3414 D1 3415 D2

- 3416 D8 3417 D8
- 3418 D3 3419 D3
- 3419 D3 3420 F5

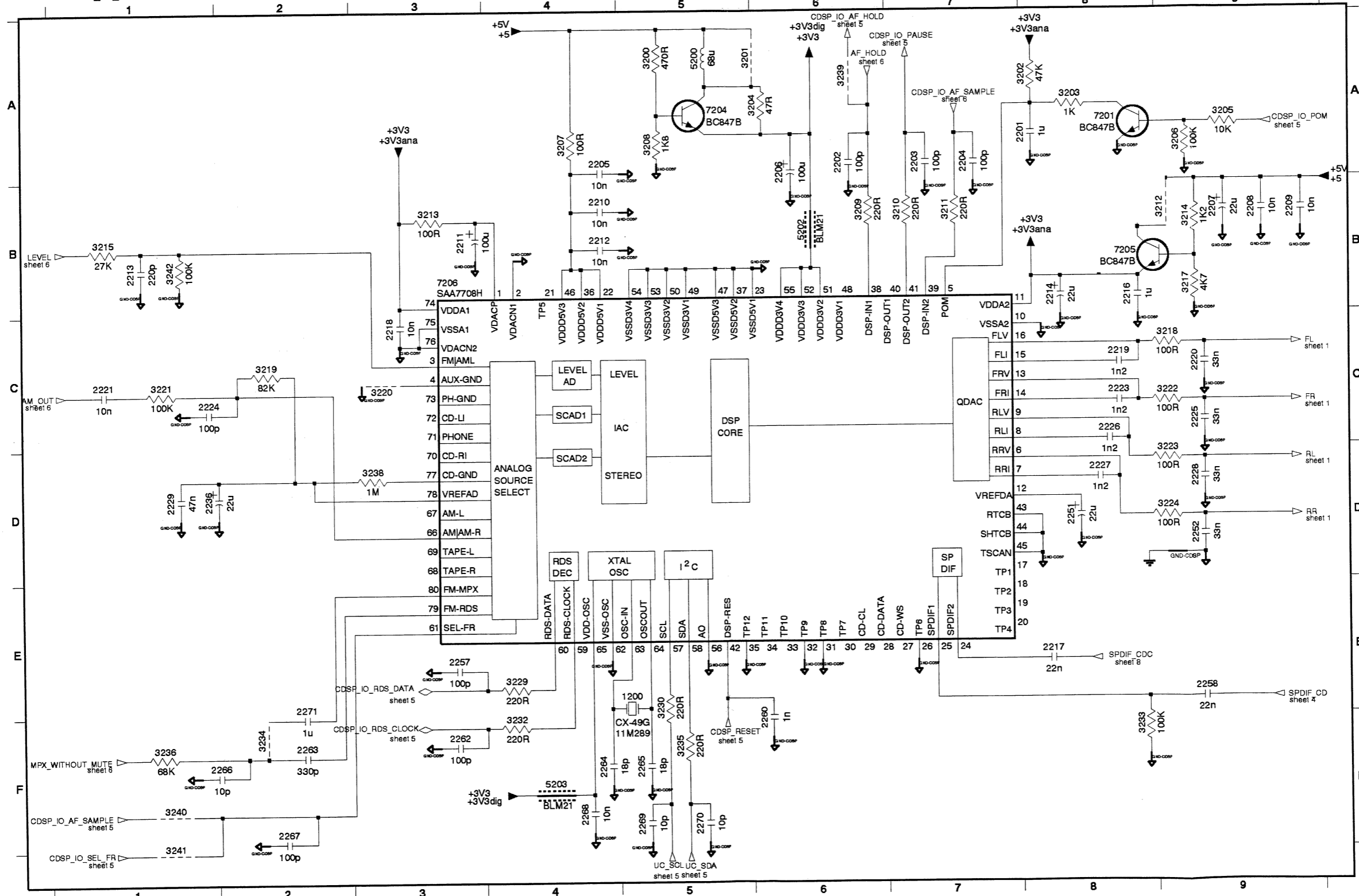
- 3421 F2 3422 F1
- 3423 D1 3424 D3
- 3424 D3 3425 E1

- 3427 E3 3428 E2
- 3428 E2 3429 E3
- 3429 E3 3430 F1
- 3430 F1 3431 F6

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SOUND PROCESS PART

AF_HOLD.....A6	CDSP_IO_POM.....A9	CDSP_SEL_FR.....F1	FR.....C9	SPDIF_CD.....E8	UC_SCL.....F5
AM_OUT.....C1	CDSP_IO_RDS_CLOCK...F3	CDSP_RESET.....F6	LEVEL.....B1	RL.....D9	UC_SDA.....F5
CDSP_IO_PAUSE.....A6	CDSP_IO_RDS_DATA.....E3	FL.....C9	MPX_WITHOUT_MUTE...F1	RR.....D9	

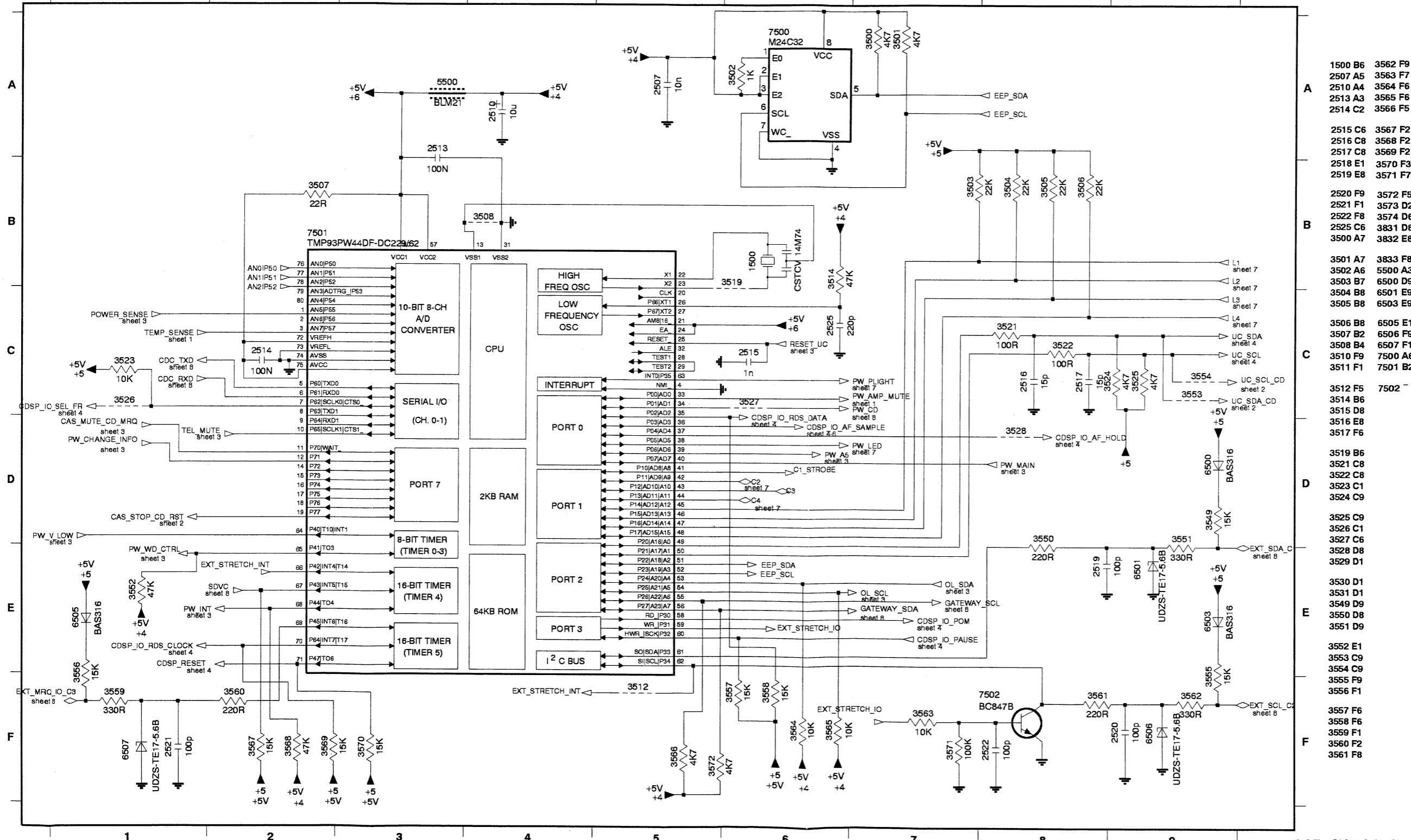


1200 E5	3215 B1
2201 A8	3217 B9
2202 A6	3218 C9
2203 A7	3219 C2
2204 A7	3220 C3
2205 A4	3221 C1
2206 A6	3222 C9
2207 B9	3223 D9
2208 B9	3224 D9
2209 B9	3229 E4
2210 B4	3230 E5
2211 B3	3231 E1
2212 B4	3232 F4
2213 B1	3233 F8
2214 B8	3234 F2
2215 B8	3235 F5
2216 B8	3236 D3
2217 E8	3239 A6
2218 C3	3240 F1
2219 C8	3241 F1
2220 C9	3242 B1
2221 C1	5200 A5
2223 C8	5201 B8
2224 C1	5202 B6
2225 C9	5203 F4
2226 C8	7201 A8
2227 D8	7204 A5
2228 D9	7205 B8
2229 D1	7206 B3
2236 D1	
2251 D8	
2252 D9	
2257 E3	
2258 E9	
2260 F6	
2261 F2	
2262 F3	
2263 F2	
2264 F4	
2265 F5	
2267 F2	
2268 F4	
2269 F5	
2270 F5	
2271 E2	
3200 A5	
3201 A5	
3202 A8	
3203 A8	
3204 A6	
3205 A9	
3206 A9	
3207 A4	
3208 A5	
3209 B6	
3210 B7	
3211 B7	
3212 B9	
3213 B3	
3214 B9	

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MICROCONTROLLER PART

C1_STROBE.....D6	CDC_RXD.....C1	CDSP_IO_RDS_CLOCK...E1	EXT_MRQ_IO_C3.....F1	GATEWAY_SCL.....E7	OL_SDA.....E7	PW_LED.....D7	SDVC.....E2
C2.....D6	CDC_TXD.....C1	CDSP_IO_RDS_DATA...C6	EXT_SCL_C2.....F9	L1.....B9	POWER_SENSE.....C1	PW_MAIN.....D8	TEL_MUTE.....D2
C3.....D6	CDSP_IO_AF_HOLD.....D8	CDSP_IO_SEL_FR.....C1	EXT_SDA_C1.....E9	L2.....B9	PW_A5.....D6		TEMP_SENSE.....C1
C4.....D6	CDSP_IO_AF_SAMPLE...D6	CDSP_RESET.....E1	EXT_STRETCH_INT...C2/F4	L3.....C9	PW_AMP_MUTE.....C7	PW_V_LOW.....D1	UC_SCL_CD.....C9
CAS_MUTE_CD_MRQ...D1	CDSP_IO_PAUSE.....E7	EPP_SCL.....A8/E6	EXT_STRETCH_IO...F7/E6	L4.....C10	PW_CHANGE_INFO...D1	PW_WD_CTRL.....E1	UC_SDA_CD.....C9
CAS_STOP_CD_RST...D1	CDSP_IO_POM.....E7	EPP_SDA.....A8/E6	GATEWAY_SDA.....E7	OL_SCL.....E7	PW_INT.....E2	RESET_UC.....C6	
1	2	3	4	5	6	7	8



1500 B6	3562 F9
2507 A5	3563 F7
2510 A4	3564 F6
2513 A3	3565 F6
2514 C2	3566 F5
2515 C6	3567 F2
2516 C8	3568 F2
2517 C8	3569 F2
2518 E1	3570 F3
2519 E8	3571 F7
2520 F9	3572 F5
2521 F1	3573 D2
2522 F8	3574 D6
2525 C6	3831 D8
3500 A7	3832 E8
3501 A7	3833 F8
3502 A6	5500 A3
3503 B7	6500 D9
3504 B8	6501 E9
3505 B8	6503 E9
3506 B8	6505 E1
3507 B2	6506 F9
3508 B4	6507 F1
3510 F9	7500 A6
3511 F1	7501 B2
3512 F5	7502
3514 B6	
3515 D8	
3516 E8	
3517 F6	
3519 B6	
3521 C8	
3522 C8	
3523 C1	
3524 C9	
3525 C9	
3526 C1	
3527 C6	
3528 D8	
3529 D1	
3530 D1	
3531 D1	
3549 D9	
3550 D8	
3551 D9	
3552 E1	
3553 C9	
3554 C9	
3555 F9	
3556 F1	
3557 F6	
3558 F6	
3559 F1	
3560 F2	
3561 F8	

TUNER PART

AF_HOLD.....D6 AM_OUT.....D6 CDSP_IO_AF_SAMPLE...E6 LEVEL.....C6 MPX_WITHOUT_MUTE...C6 UC_SCL.....C3 UC_SDA.....C3

1 2 3 4 5 6 7

A

B

C

D

E

A

B

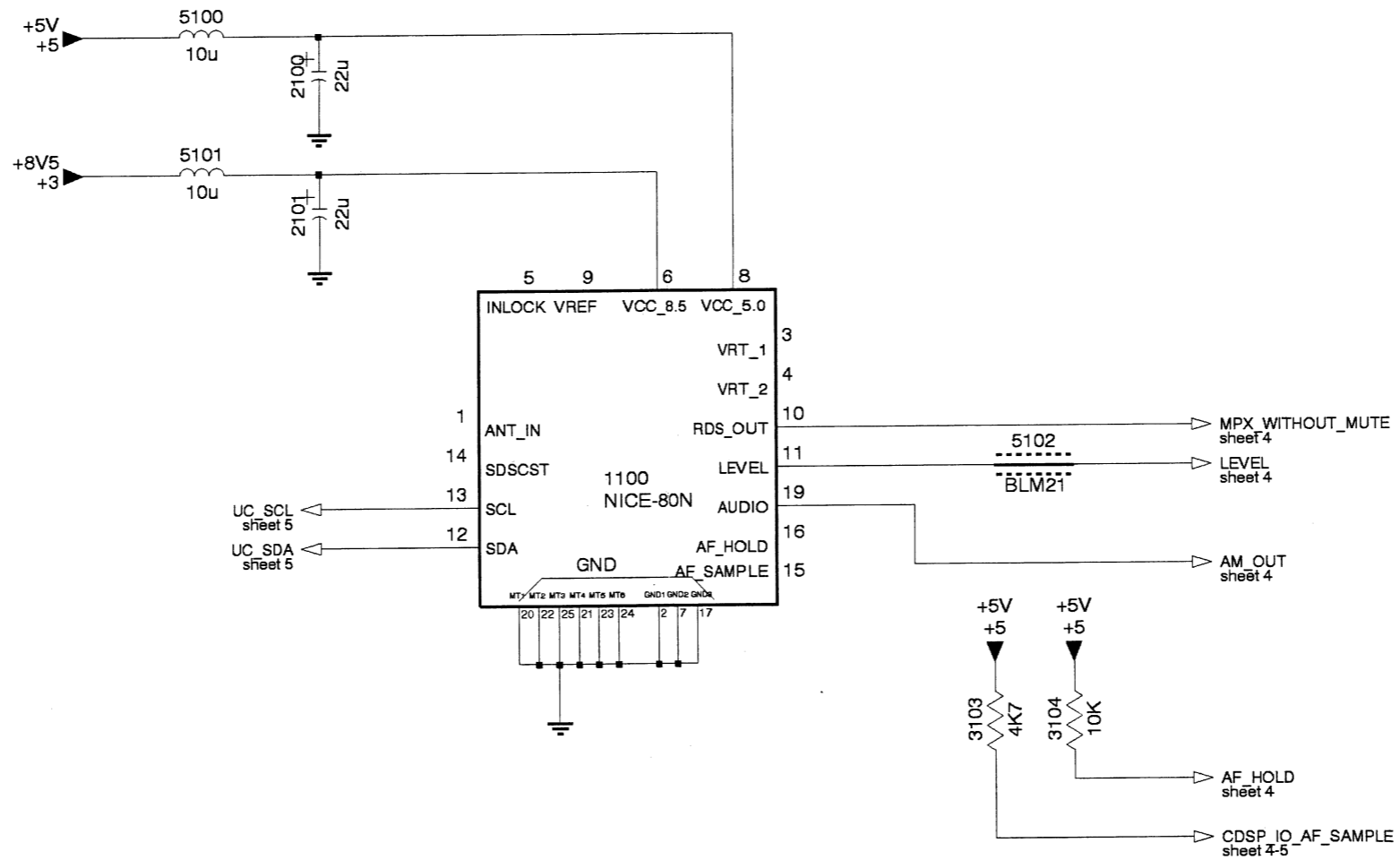
C

D

E

1100 C4
2100 B3
2101 B3
3102 D6
3103 D5

3104 D6
5100 B2
5101 B2
5102 C5



1

2

3

4

5

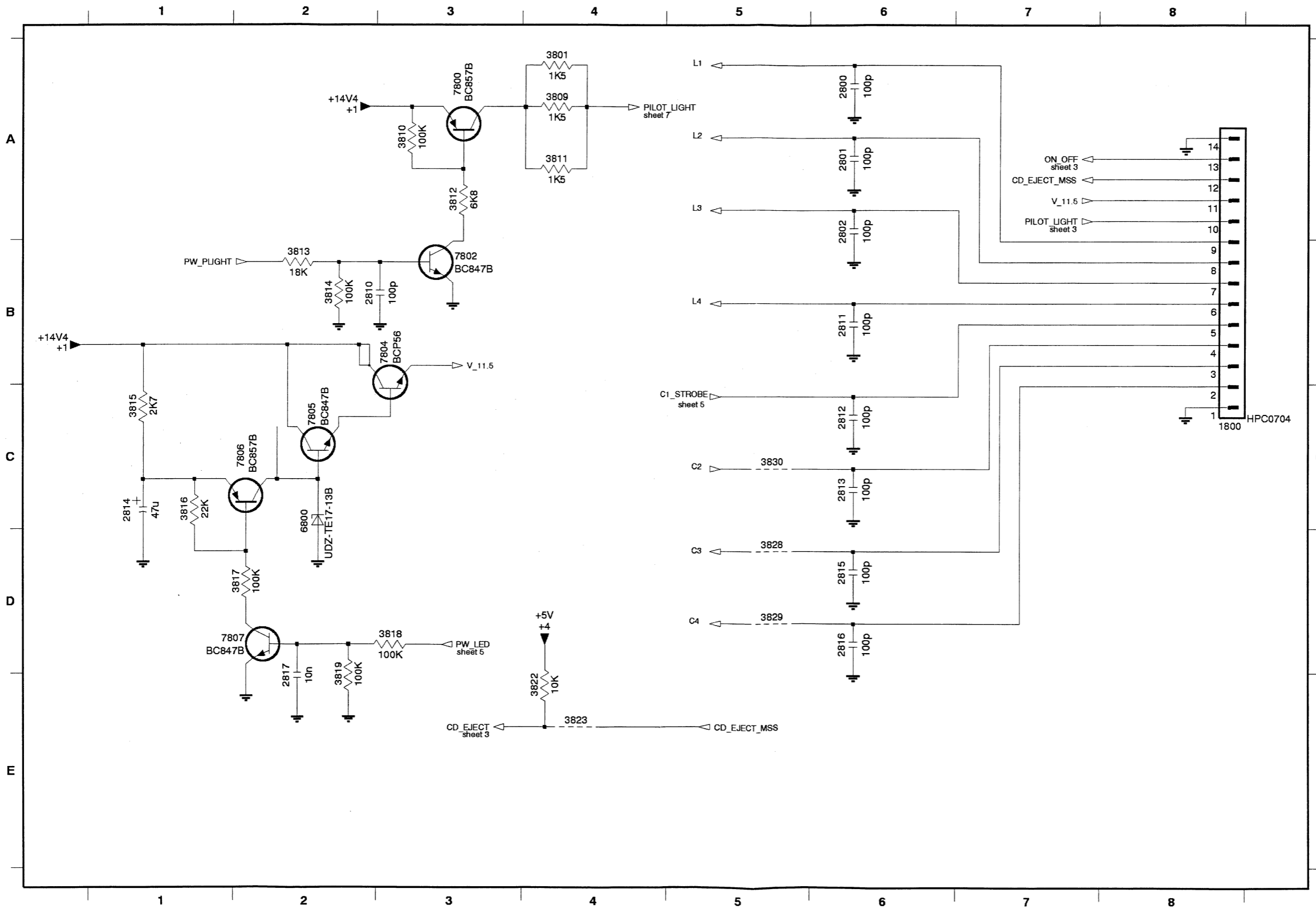
6

7

22DC279/62...

CONNECTION TO FRONT

C1.....C6 C3.....D6 CD_EJECT_MSS.....E5/B8 L1.....A6 L3.....B6 ON_OFF.....A8 PW_LED.....E4 V_11.5.....B8/C4
 C2.....D6 C4.....E6 CD_EJECT.....E3 L2.....A6 L4.....B6 PILOT_LIGHT.....A5/B8 PW_LIGHT.....B2

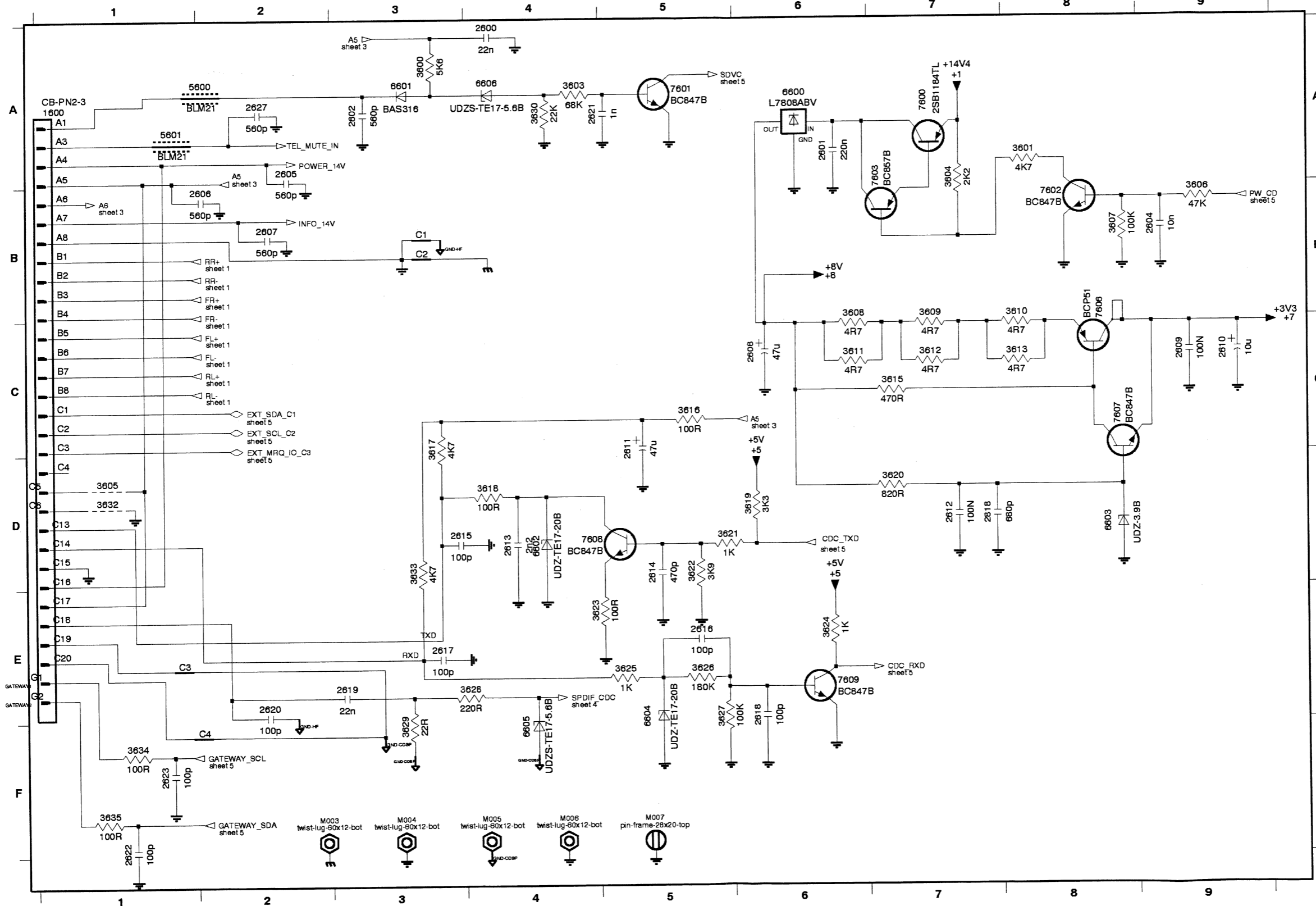


- 1800 C8
- 2800 A6
- 2801 A6
- 2802 A6
- 2810 B2
- 2811 B6
- 2812 C6
- 2813 C6
- 2814 C1
- 2815 D6
- 2816 D6
- 2817 E2
- 3801 A4
- 3809 A4
- 3810 A3
- 3811 A4
- 3812 A3
- 3813 B2
- 3814 B2
- 3815 C1
- 3816 C1
- 3817 D2
- 3818 D3
- 3819 E2
- 3820 E4
- 3821 E4
- 6800 C2
- 7800 A3
- 7802 B3
- 7804 B3
- 7805 C2
- 7806 C2
- 7807 D2

22DC279/62

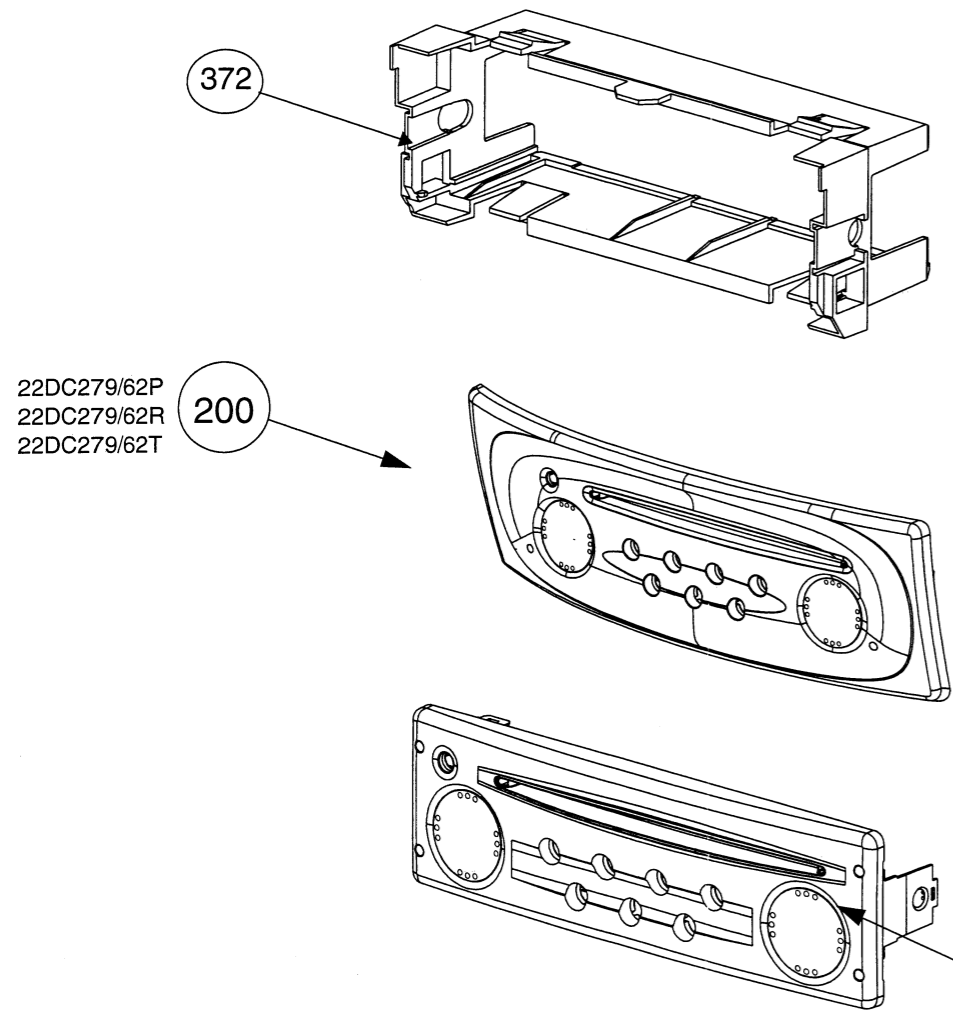
CONNECTOR BLOCK

A5.....A2/A3/C5	CDC_TXD.....D6	EXT_MRQ_IO_C3.....C2	FR+.....B2	GATEWAY_SDA.....F2	PW_CD.....B9	RR+.....B2	SPDIF_CDC.....E4
A6.....B1	EXT_SCL_C2.....C2	FL+.....C2	FR-.....B2	INFO_14V.....A2	RL+.....C2	RR-.....B2	TEL_MUTE_IN.....A2
CDC_RXD.....D6	EXT_SDA_C1.....C2	FL-.....C2	GATEWAY_SCL.....F1	POWER_14V.....A2	RL-.....C2	SDVC.....A5	

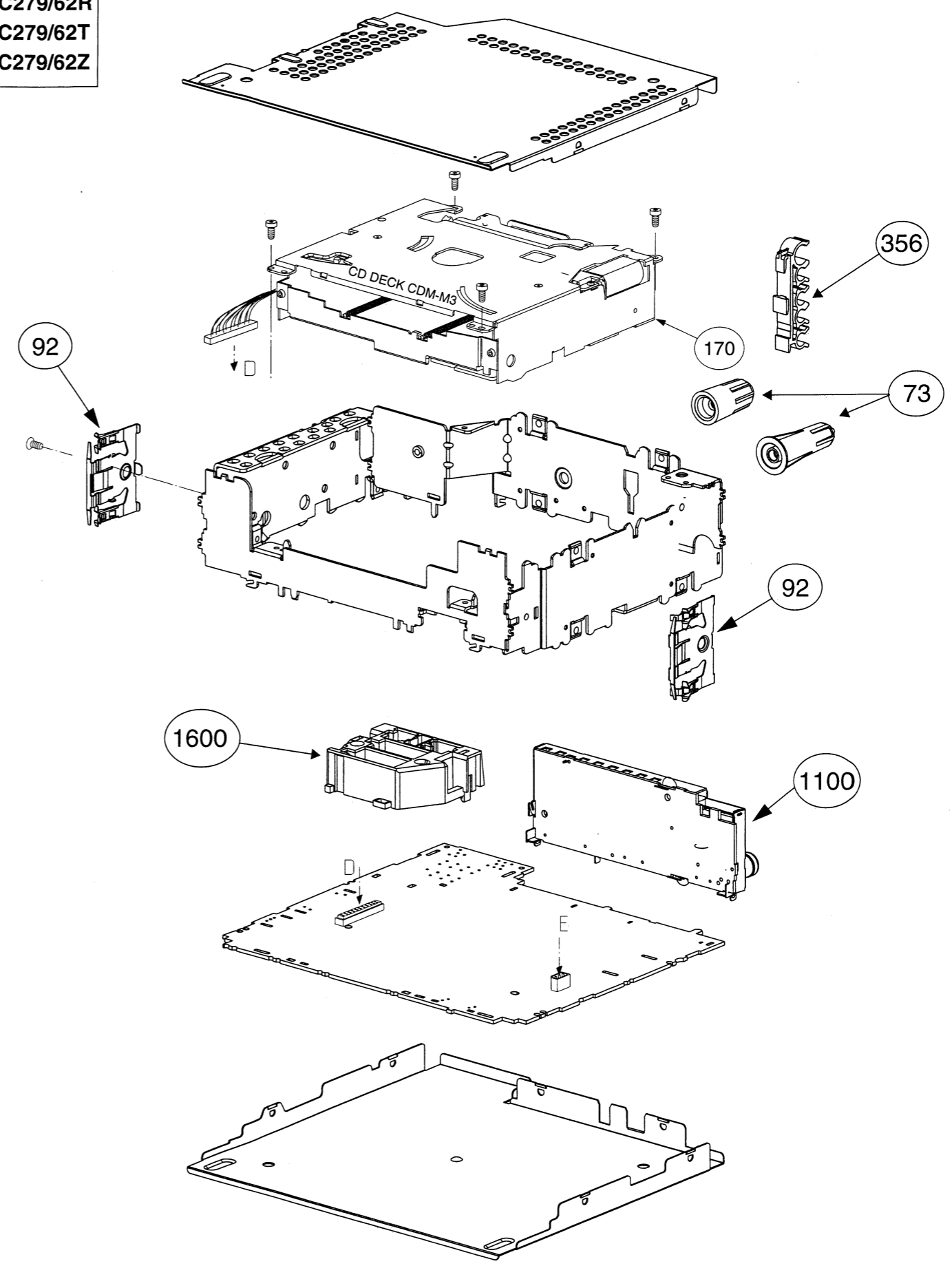


C1 B3	6600 A6
C2 B3	6601 A3
C3 E1	6602 D4
C4 F2	6603 D8
1600 A1	6604 E5
2600 A4	6605 F4
2601 A6	7600 A7
2602 A3	7601 A5
2604 B9	7602 B8
2605 A2	7603 B7
2606 B2	7606 C8
2607 B2	7607 C8
2608 C6	7608 D5
2609 C9	7609 E5
2610 C9	
2611 C5	
2612 D7	
2613 D4	
2614 D5	
2615 D3	
2616 E5	
2617 E3	
2618 E6	
2619 E3	
2620 E2	
3600 A3	
3601 A8	
3603 A4	
3604 A7	
3606 B9	
3607 B8	
3608 B6	
3609 B7	
3610 B8	
3611 C6	
3612 C7	
3613 C8	
3615 C7	
3616 C5	
3617 C3	
3618 D4	
3619 D6	
3620 D7	
3621 D5	
3622 D5	
3623 E4	
3624 E6	
3625 E5	
3626 E5	
3627 E5	
3628 E4	
3629 F3	
3630 A4	
5600 A4	
5601 A1	

22DC279/62 22DC279/62R
 22DC279/62F 22DC279/62T
 22DC279/62P 22DC279/62Z



22DC279/62
 22DC279/62E
 22DC279/62F
 22DC279/62L
 22DC279/62Z



ITEM	SERVICE CODE	DESCRIPTION	DC279/62	DC279/62E	DC279/62F	DC279/62L	DC279/62P	DC279/62R	DC279/62T	DC279/62Z
73	3111 114 48390	BUFFER MOUNTING	1	1	1	1	1	1	1	1
	3111 114 67400	BUFFER MOUNTING						1	1	1
	3111 111 07140	SPRING MOUNTING	2	2	2	2	2	2	2	2
150	3112 358 69641	CD DECK CDM-M3/4.4	1	1	1	1	1	1	1	1
200	3111 118 76180	ORNAMENTAL PLATE ASSY	1							1
	3111 118 77100	ORNAMENTAL PLATE ASSY		1						
	3111 118 76610	ORNAMENTAL PLATE ASSY			1					
	3111 118 76790	ORNAMENTAL PLATE ASSY				1				
	3111 118 76330	ORNAMENTAL PLATE ASSY					1			
	3111 118 76170	ORNAMENTAL PLATE ASSY						1		
	3111 118 76340	ORNAMENTAL PLATE ASSY							1	
	3111 118 76800	ORNAMENTAL PLATE ASSY								1
205	3111 118 76160	DECK BUTTON ASSY	1							
	3111 118 76310	DECK BUTTON ASSY			1					
	3111 118 76320	DECK BUTTON ASSY				1				
	3111 118 76820	DECK BUTTON ASSY					1			
356	3111 114 69273	FASTENING CABLE	1	1	1	1	1	1	1	
372	3111 114 68970	SLEEVE						1	1	1

Miscellaneous		DIRECTION FOR USE	1500	2422 540 98436	RES CER SM 14M74
375	3111 115 33980	TUNER NICE 80N	1600	3111 117 13190	CONNECTOR BLOCK
1100	3111 117 13180	RES XTL SM 11M289			
1200	2422 543 01057				
-H-					
2100	2020 024 90556	22µF 20% 25V	2311	4822 126 14585	100nF 10% X7R 0805 50V
2101	2020 024 90556	22µF 20% 25V	2312	4822 126 14585	100nF 10% X7R 0805 50V
2201	4822 126 14043	1µF +80-20% Y5V 16V	2313	5322 122 32531	100pF 5%NPO 50V
2202	5322 122 32531	100pF 5% NPO 50V	2314	4822 126 14043	1µF +80-20% Y5V 16V
2203	5322 122 32531	100pF 5% NPO 50V	2316	4822 126 14585	100nF 10% X7R 0805 50V
2204	5322 122 32531	100pF 5% NPO 50V	2317	2222 580 15623	1nF 10% X7R 50V 0805
2205	5322 122 34098	10nF10% X7R 63V	2318	5322 126 10223	4,7nF10%X7R 63V
2206	2020 024 90627	100µF 20% 16V	2319	4822 126 14585	100nF 10% X7R 0805 50V
2207	2020 024 90556	22µF 20% 25V	2320	2222 580 15623	1nF 10% X7R 50V 0805
2208	5322 122 34098	10nF 10% X7R 63V	2321	5322 126 10223	4,7nF10%X7R 63V
2209	5322 122 34098	10nF 10% X7R 63V	2322	4822 126 14585	100nF 10% X7R 0805 50V
2210	5322 122 34098	10nF 10% X7R 63V	2323	4822 126 14585	100nF 10% X7R 0805 50V
2211	2020 024 90627	100µF 20% 16V	2324	4822 126 14585	100nF 10% X7R 0805 50V
2212	5322 122 34098	10nF 10% X7R 63V	2325	5322 126 10223	4,7nF10%X7R 63V
2213	4822 122 33575	220pF 5% NPO 63V	2326	4822 126 14585	100nF 10% X7R 0805 50V
2214	2020 024 90556	22µF 20% 25V	2327	5322 126 10223	4,7nF10%X7R 63V
2216	4822 126 14043	1µF +80-20% Y5V 16V	2328	4822 126 14585	100nF 50V-> 62/F/P/R/T/Z
2217	5322 122 32654	22nF 0805 X7R 63V 10%	2328	2222 780 15654	220nF 16V -> /62E and /62L
2218	5322 122 34098	10nF10%X7R 63V	2329	2222 580 15623	1nF 10% X7R 50V 0805
2219	2222 580 15624	1N2 0805 X7R 50V 10%	2330	5322 126 10223	4,7nF10%X7R 63V
2220	4822 126 12105	33nF 0805 X7R 50V PM5	2331	4822 124 41842	47µF
2221	5322 122 34098	10nF10%X7R 63V	2332	2222 580 15623	1nF 10% X7R 50V 0805
2223	2222 580 15624	1N2 0805 X7R 50V 10%	2333	4822 126 14585	100nF 10% X7R 0805 50V
2224	5322 122 32531	100pF 5%NPO 50V	2334	4822 126 14585	100nF 10% X7R 0805 50V
2225	4822 126 12105	33nF 0805 X7R 50V PM5	2335	2222 78015654	220nF 16V-> /62E and /62L
2226	2222 580 15624	1N20805 X7R 50V 10%	2400	4822 124 12437	4700µF 20% 16V
2227	2222 580 15624	1N2 0805 X7R 50V 10%	2401	2020 024 90556	22µF 20% 25V
2228	4822 126 12105	33nF 0805 X7R 50V PM5	2402	2222 780 15654	220nF 10% X7R 16V 0805
2229	2222 910 15645	47nFN 0805 X7R 25V 10%	2403	4822 126 14585	100nF 10% X7R 0805 50V
2236	2020 024 90556	22µF 20% 25V	2404	2020 024 90556	22µF 20% 25V
2251	2020 024 90556	22µF 20% 25V	2405	2020 024 90627	100µF 20% 16V
2252	4822 126 12105	33nF 0805 X7R 50V PM5	2406	2020 024 90627	100µF 20% 16V
2257	5322 122 32531	100pF 5%NPO 50V	2407	4822 126 14585	100nF 10% X7R 0805 50V
2258	5322 122 32654	22N 0805 X7R 63V 10% R	2408	5322 122 32531	100pF 5%NPO 50V
2259	4822 126 14043	1µF +80-20% Y5V 16V	2409	5322 122 34098	10nF10%X7R 63V
2260	2222 580 15623	1nF 10% X7R 50V 0805	2410	4822 124 41842	47µF
2262	5322 122 32531	100pF 5%NPO 50V	2411	2020 024 90556	22µF 20% 25V
2263	5322 122 31863	330pF 0805 NPO 63V PM5	2412	2020 024 90556	22µF 20% 25V
2264	4822 126 13689	18pF 1% NPO 63V	2413	2222 910 15645	47NF 0805 X7R 25V 10%
2265	4822 126 13689	18pF 1% NPO 63V	2414	5322 122 32531	100pF 5%NPO 50V
2266	5322 122 32448	10pF 5% NPO 63V	2415	5322 122 32531	100pF 5%NPO 50V
2267	5322 122 32531	100pF 5%NPO 50V	2416	5322 122 32531	100pF 5%NPO 50V
2268	5322 122 34098	10nF10%X7R 63V	2417	4822 126 14043	1µF +80-20% Y5V 16V
2269	5322 122 32448	10pF 5% NPO 63V	2418	5322 122 32531	100pF 5%NPO 50V
2270	5322 122 32448	10pF 5% NPO 63V	2421	5322 122 32531	100pF 5%NPO 50V
2300	2222 580 15623	1nF 10% X7R 50V 0805	2426	5322 122 34098	10nF10%X7R 63V
2301	2222 580 15623	1nF 10% X7R 50V 0805	2427	5322 122 34098	10nF10%X7R 63V
2302	4822 126 14585	100nF 10% X7R 0805 50V	2428	5322 122 34098	10nF10%X7R 63V
2303	4822 126 14585	100nF 10% X7R 0805 50V	2429	5322 122 34098	10nF10%X7R 63V
2305	4822 126 14585	100nF 10% X7R 0805 50V	2430	4822 126 14585	100nF 10% X7R 0805 50V
2306	4822 126 14043	1µF +80-20% Y5V 16V	2431	4822 122 33216	270pF 5%NPO 50V
2307	4822 126 14585	100nF 10% X7R 0805 50V	2432	2020 024 90627	100µF 20% 16V
2308	2222 580 15623	1nF 10% X7R 50V 0805	2433	2020 021 91539	6800µF 16V -> /62E and /62L
2309	2222 580 15623	1nF 10% X7R 50V 0805	2507	5322 122 34098	10nF 10%X7R 63V
2310	4822 126 14585	100nF 10% X7R 0805 50V	2510	4822 124 12082	10µF 20% SM 50V

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2513	4822 126 14585	100nF 10% X7R 0805 50V	2613	2222 580 15627	2N2 0805 X7R 50V 10% R
2514	4822 126 14585	100nF 10% X7R 0805 50V	2614	5322 122 32268	470P 0805 NPO 63V PM5
2515	2222 580 15623	1nF 10% X7R 50V 0805	2615	5322 122 32531	100pF 5% NPO 50V
2516	4822 126 13486	15pF 2% NPO 63V	2616	5322 122 32531	100pF 5% NPO 50V
2517	4822 126 13486	15pF 2% NPO 63V	2617	5322 122 32531	100pF 5% NPO 50V
2519	5322 122 32531	100pF 5%NPO 50V	2618	5322 122 32531	100pF 5% NPO 50V
2520	5322 122 32531	100pF 5%NPO 50V	2619	5322 122 32654	22N 0805 X7R 63V 10% R
2521	5322 122 32531	100pF 5%NPO 50V	2620	5322 122 32531	100pF 5% NPO 50V
2522	5322 122 32531	100pF 5%NPO 50V	2621	2222 580 15623	1nF 10% X7R 50V 0805
2525	4822 122 33575	220pF 5% NPO 63V	2621	5322 122 32531	100pF 5%NPO 50V
2600	5322 122 32654	22NF 0805 X7R 63V 10% R	2801	5322 122 32531	100pF 5%NPO 50V
2601	2222 780 15654	220nF 10% X7R 16V 0805	2802	5322 122 32531	100pF 5% NPO 50V
2602	5322 116 80853	560pF 5%NPO 63V	2810	5322 122 32531	100pF 5% NPO 50V
2604	5322 122 34098	10nF10%X7R 63V	2811	5322 122 32531	100pF 5% NPO 50V
2605	5322 122 32531	100pF 5%NPO 50V	2812	5322 122 32531	100pF 5% NPO 50V
2606	5322 122 32531	100pF 5%NPO 50V	2813	5322 122 32531	100pF 5% NPO 50V
2607	5322 122 32531	100pF 5%NPO 50V	2814	4822 124 41842	47µF
2608	4822 124 41842	47µF	2815	5322 122 32531	100pF 5% NPO 50V
2609	4822 126 14585	100nF 10% X7R 0805 50V	2816	5322 122 32531	100pF 5% NPO 50V
2610	4822 124 12082	10µF 20% SM 50V	2817	5322 122 34098	10nF10% X7R 63V
2611	4822 124 41842	47µF			
2612	4822 126 14585	100nF 10% X7R 0805 50V			
-□-					
3103	4822 051 20472	4K70 5% 0,1W	3241	4822 051 20008	OR00 JUMP. (0805)
3104	4822 117 10833	10K 1% 0,1W	3300	4822 051 20478	4R70 5% 0,1W
3200	4822 051 20471	470R00 5% 0,1W	3301	4822 051 20478	4R70 5% 0,1W
3201	4822 051 20008	OR00 JUMP. (0805)	3302	4822 117 10833	10K 1% 0,1W
3202	4822 117 10834	47K 1% 0,1W	3303	4822 051 20472	4K70 5% 0,1W
3203	4822 051 20102	1K00 5% 0,1W	3305	4822 116 10062	470R 50% 16V PTC 0805
3204	4822 051 20479	47R00 5% 0,1W	3306	4822 117 10833	10K 1% 0,1W
3205	4822 117 10833	10K 1% 0,1W	3307	4822 051 20478	4R70 5% 0,1W
3206	4822 117 10837	100K 1% 0,1W	3308	4822 051 20478	4R70 5% 0,1W
3207	4822 051 20101	100R00 5% 0,1W	3309	4822 051 20008	OR00 JUMP. (0805)
3208	4822 051 20182	1K80 5% 0,1W	3310	4822 117 10833	10K 1% 0,1W
3209	4822 117 11503	220R 1% 0,1W	3311	4822 117 10837	100K 1% 0,1W
3210	4822 117 11503	220R 1% 0,1W	3312	4822 051 20683	68K00 5% 0,1W
3211	4822 117 11503	220R 1% 0,1W	3313	4822 051 20102	1K00 5% 0,1W
3212	4822 051 20008	OR00 JUMP. (0805)	3314	4822 051 20478	4R70 5% 0,1W
3213	4822 051 20101	100R00 5% 0,1W	3315	4822 051 20478	4R70 5% 0,1W
3214	4822 051 20122	1K20 5% 0,1W	3316	4822 051 20102	1K00 5% 0,1W
3215	4822 051 20273	27K00 5% 0,1W	3317	4822 051 20102	1K00 5% 0,1W
3216	4822 117 10837	100K 1% 0,1W	3318	4822 051 20102	1K00 5% 0,1W
3217	4822 051 20472	4K70 5% 0,1W	3319	4822 051 20102	1K -> 62/F/P/R/T/Z
3218	4822 051 20101	100R00 5% 0,1W	3319	4822 117 11504	270R 5% -> /62E and /62L
3219	4822 117 11149	82K 1% 0,1W	3320	4822 051 20478	4R70 5% 0,1W
3220	4822 051 20008	OR00 JUMP. (0805)	3321	4822 051 20478	4R70 5% 0,1W
3221	4822 117 10837	100K 1% 0,1W	3402	4822 051 20102	1K00 5% 0,1W
3222	4822 051 20101	100R00 5% 0,1W	3403	4822 051 20154	150K00 5% 0,1W
3223	4822 051 20101	100R00 5% 0,1W	3404	4822 117 10833	10K 1% 0,1W
3224	4822 051 20101	100R00 5% 0,1W	3405	4822 117 11148	56K 1% 0,1W
3229	4822 117 11503	220R 1% 0,1W	3406	4822 051 20102	1K00 5% 0,1W
3230	4822 117 11503	220R 1% 0,1W	3407	4822 117 10833	10K 1% 0,1W
3232	4822 117 11503	220R 1% 0,1W	3408	4822 051 20102	1K00 5% 0,1W
3234	4822 051 20008	OR00 JUMP. (0805)	3409	4822 117 10834	47K 1% 0,1W
3235	4822 117 11503	220R 1% 0,1W	3410	4822 117 10834	47K 1% 0,1W
3236	4822 051 20683	68K00 5% 0,1W	3411	4822 117 10834	47K 1% 0,1W
3238	4822 051 20				

3414	4822 051 20332	3K30 5% 0,1W	3564	4822 117 10834	47K 1% 0,1W
3415	4822 051 20182	1K80 5% 0,1W	3565	4822 117 10834	47K 1% 0,1W
3416	4822 117 10834	47K 1% 0,1W	3566	4822 051 20472	4K70 5% 0,1W
3417	4822 117 10834	47K 1% 0,1W	3567	4822 116 83933	15K 1% 0,1W
3418	4822 117 10833	10K 1% 0,1W	3568	4822 117 10834	47K 1% 0,1W
3419	4822 117 10833	10K 1% 0,1W	3569	4822 116 83933	15K 1% 0,1W
3424	4822 051 20008	0R00 JUMP. (0805)	3570	4822 116 83933	15K 1% 0,1W
3425	4822 051 20332	3K30 5% 0,1W	3571	4822 117 10837	100K 1% 0,1W
3428	4822 051 20182	1K80 5% 0,1W	3572	4822 051 20472	4K70 5% 0,1W
3429	4822 117 10833	10K 1% 0,1W	3600	4822 117 12955	2K7 1% 0,1W 0805
3430	4822 117 11449	2K2 5% 0,1W 0805	3601	4822 051 20472	4K70 5% 0,1W
3431	4822 117 10837	100K 1% 0,1W	3603	4822 117 11507	6K8 1% 0,1W
3432	4822 117 10837	100K 1% 0,1W	3604	4822 117 11449	2K2 5% 0,1W 0805
3433	4822 051 20333	33K00 5% 0,1W	3606	4822 117 10834	47K 1% 0,1W
3434	4822 117 12955	2K7 1% 0,1W 0805	3607	4822 117 10837	100K 1% 0,1W
3435	4822 117 12955	2K7 1% 0,1W 0805	3608	4822 051 20478	4R70 5% 0,1W
3436	4822 117 12955	2K7 1% 0,1W 0805	3609	4822 051 20478	4R70 5% 0,1W
3437	4822 117 12955	2K7 1% 0,1W 0805	3610	4822 051 20478	4R70 5% 0,1W
3438	4822 117 12955	2K7 1% 0,1W 0805	3611	4822 051 20478	4R70 5% 0,1W
3439	4822 117 12955	2K7 1% 0,1W 0805	3612	4822 051 20478	4R70 5% 0,1W
3440	4822 117 12955	2K7 1% 0,1W 0805	3613	4822 051 20478	4R70 5% 0,1W
3441	4822 117 12955	2K7 1% 0,1W 0805	3615	4822 051 20471	470R00 5% 0,1W
3443	4822 051 20472	4K70 5% 0,1W	3616	4822 051 20101	100R00 5% 0,1W
3444	4822 117 10833	10K 1% 0,1W	3617	4822 051 20472	4K70 5% 0,1W
3445	4822 051 20102	1K00 5% 0,1W	3618	4822 051 20101	100R00 5% 0,1W
3446	4822 117 10837	100K 1% 0,1W	3619	4822 051 20332	3K30 5% 0,1W
3500	4822 051 20472	4K70 5% 0,1W	3620	4822 117 11454	820R 1% 0,1W
3501	4822 051 20472	4K70 5% 0,1W	3621	4822 051 20102	1K00 5% 0,1W
3502	4822 051 20102	1K00 5% 0,1W	3622	4822 117 11139	1K5 1% 0,1W
3503	4822 051 20223	22K00 5% 0,1W	3623	4822 051 20101	100R00 5% 0,1W
3504	4822 051 20223	22K00 5% 0,1W	3624	4822 051 20102	1K00 5% 0,1W
3505	4822 051 20223	22K00 5% 0,1W	3625	4822 051 20102	1K00 5% 0,1W
3506	4822 051 20223	22K00 5% 0,1W	3626	4822 051 20184	180K00 5% 0,1W
3507	4822 051 20229	22R00 5% 0,1W	3627	4822 117 10837	100K 1% 0,1W
3508	4822 051 20008	0R00 JUMP. (0805)	3628	4822 117 11503	220R 1% 0,1W
3514	4822 117 10834	47K 1% 0,1W	3629	4822 051 20229	22R00 5% 0,1W
3519	4822 051 20008	0R00 JUMP. (0805)	3630	4822 117 11504	270R 1% 0,1W
3521	4822 051 20101	100R00 5% 0,1W	3717	4822 117 10833	10K 1% 0,1W
3522	4822 051 20101	100R00 5% 0,1W	3720	4822 051 20008	0R00 JUMP. (0805)
3523	4822 117 10833	10K 1% 0,1W	3722	4822 051 20008	0R00 JUMP. (0805)
3524	4822 051 20472	4K70 5% 0,1W	3723	4822 117 10837	100K 1% 0,1W
3525	4822 051 20472	4K70 5% 0,1W	3724	4822 051 20008	0R00 JUMP. (0805)
3526	4822 051 20008	0R00 JUMP. (0805)	3725	4822 051 20472	4K70 5% 0,1W
3527	4822 051 20008	0R00 JUMP. (0805)	3727	4822 051 20008	0R00 JUMP. (0805)
3528	4822 051 20008	0R00 JUMP. (0805)	3729	4822 051 20008	0R00 JUMP. (0805)
3549	4822 116 83933	15K 1% 0,1W	3732	4822 051 20008	0R00 JUMP. (0805)
3550	4822 117 11503	220R 1% 0,1W	3801	4822 117 11139	1K5 1% 0,1W
3551	4822 117 13577	330R 1% 0805 1,25W	3809	4822 117 11139	1K5 1% 0,1W
3552	4822 117 10834	47K 1% 0,1W	3810	4822 117 10837	100K 1% 0,1W
3553	4822 051 20008	0R00 JUMP. (0805)	3811	4822 117 11139	1K5 1% 0,1W
3554	4822 051 20008	0R00 JUMP. (0805)	3812	4822 117 11507	6K8 1% 0,1W
3555	4822 116 83933	15K 1% 0,1W	3813	4822 117 10965	18K 1% 0,1W
3556	4822 116 83933	15K 1% 0,1W	3814	4822 117 10837	100K 1% 0,1W
3557	4822 116 83933	15K 1% 0,1W	3815	4822 117 12955	2K7 1% 0,1W 0805
3558	4822 116 83933	15K 1% 0,1W	3816	4822 051 20223	22K00 5% 0,1W
3559	4822 117 13577	330R 1% 0805 1,25W	3817	4822 117 10837	100K 1% 0,1W
3560	4822 117 11503	220R 1% 0,1W	3818	4822 117 10837	100K 1% 0,1W
3561	4822 117 11503	220R 1% 0,1W	3819	4822 117 10837	100K 1% 0,1W
3562	4822 117 13577	330R 1% 0805 1,25W	3822	4822 117 10833	10K 1% 0,1W
3563	4822 117 10833	10K 1% 0,1W	3823	4822 051 20008	0R00 JUMP. (0805)

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5000	4822 157 71206	BLM21A601SPT	5401	4822 157 71206	BLM21A601SPT
5100	4822 157 71314	10UH (NL322522T-100J)	5402	4822 157 71206	BLM21A601SPT
5101	4822 157 71314	10UH (NL322522T-100J)	5500	4822 157 71206	BLM21A601SPT
5102	4822 157 71206	BLM21A601SPT	5600	4822 157 71206	BLM21A601SPT
5202	4822 157 71206	BLM21A601SPT	5601	4822 157 71206	BLM21A601SPT
5203	4822 157 71206	BLM21A601SPT			
5400	4822 157 70935				
6400	4822 130 10488	S3G	6506	4822 130 10185	UDZS5.6B
6401	4822 130 11528	1PS76SB10	6507	4822 130 10185	UDZS5.6B
6402	4822 130 11397	BAS316	6601	4822 130 11397	BAS316
6403	4822 130 11397	BAS316	6602	4822 130 10656	UDZ20B
6404	4822 130 11397	BAS316	6603	4822 130 11564	UDZ3.9B
6500	4822 130 11397	BAS316	6604	4822 130 10656	UDZ20B
6501	4822 130 10185	UDZS5.6B	6605	4822 130 10185	UDZS5.6B
6503	4822 130 11397	BAS316	6606	4822 130 10838	UDZ3.3B
6505	4822 130 11397	BAS316	6800	4822 130 11149	UDZ13B
7201	5322 130 60159	BC846B			
7204	5322 130 60159	BC846B			
7205	5322 130 60159	BC846B			
7206	9352 637 60557	IC SM SAA7708H/N203			
7300	5322 130 60159	BC846B			
7301	9322 129 93667	TDA7385 -> /62/F/P/R/T/Z			
7301	9322 129 80667	TDA7386 -> /62E and /62L			
7400	9352 629 23118	TDA3608TH/N3			
7401	5322 130 60159	BC846B			
7402	5322 130 60159	BC846B			
7403	4822 209 16279	SAA1305T			
7404	5322 130 60159	BC846B			
7405	5322 130 60159	BC846B			
7406	4822 130 60373	BC856B			
7501	3111 117 41220	IC TMP93CW44DF			
7502	5322 130 60159	BC846B			
7600	9322 133 13668	2SB1184-R			
7601	5322 130 60159	BC846B			
7602	5322 130 60159	BC846B			
7603	4822 130 60373	BC856B			
7606	5322 130 62639				
7607	5322 130 60159	BC846B			
7608	5322 130 60159	BC846B			
7609	5322 130 60159	BC846B			
7800	4822 130 60373	BC856B			
7802	5322 130 60159	BC846B			
7804	5322 130 63033	BCP56			
7805	5322 130 60159	BC846B			
7806	4822 130 60373	BC856B			
7807	5322 130 60159	BC846B			

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