DVD PLAYER **DVD724**

Service
Service
Service

DVD724/781

Service Manual

CLASS 1
LASER PRODUCT

DVD VIDEO™

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

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DVD724/781 IFU

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Published by LBZ 0266 BPAVC Subject to modification EN 3122 785 12930

PHILIPS

1. Technical Specifications

DVD724/781

Specifications

DVD-Video player

Technical specifications DVD 724/781

Playback system
- DVD-Video
- Video CD (VCD)
- SVCD
- Picture CD
- MP3-CD[1]
- CD (CD-R and CD-RW)[1]

Optical read-out system

• Laser type	Semiconductor AlGaAs
• Numerical Aperture	0.60 (DVD) 0.45 (VCD/SVCD/CD)
• Wavelength	650 nm (DVD) 780 nm (VCD/SVCD/CD)

DVD disc format

• Medium	Optical disc
• Diameter	12 cm (8 cm)
• Playing time (12cm)	

One layer	2.15 h[2]
Dual layer	4 h[2]
Two side, single layer	4.30 h[2]
Two side, dual layer	8 h[2]

TV standard	**PAL**	**NTSC**
	50 Hz	60Hz
• Number of lines	625	525
• Playback	Multi standard (PAL/NTSC)	

Video format

• Digital compression	MPEG 2 for DVD, SVCD MPEG 1 for VCD

DVD	50Hz	60Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	50Hz	60Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

Video performance

• Video output	1 Vpp into 75 ohm
• S-Video output	Y: 1Vpp into 75 Ohm C: 0.3Vpp into75 Ohm
• Component Video output	Y 1Vpp into 75 Ohm CR 0.7Vpp into 75 Ohm CB 0.7Vpp into 75 Ohm

Audio format

• Digital	Mpeg/Dolby Digital/DTS PCM	Compressed Digital, 16, 20, 24 bits fs, 44.1, 48, 96 kHz
	MP3 (ISO 9660)	24, 32, 56, 64, 96, 128, 256 kbps & variable bit rate fs, 16, 22.05, 24, 32, 44.1, 48 kHz

- Analog sound stereo
- Dolby surround compatible downmix from Dolby Digital multi-channel sound
- 3D sound for virtual 5.1 channel sound on 2 speakers
- Dolby Digital and DTS surround sound reproducing from 5.1 channels.

Audio performance (typical)
- D/A converter 24 bits

DVD:	Fs 96 kHz Fs 48 kHz	4 Hz -44 kHz 4 Hz - 22 kHz
CD/VCD:	Fs 44.1 kHz	4 Hz - 20 kHz
SVCD:	Fs 48 kHz Fs 44.1 kHz	4 Hz - 22 kHz 4 Hz - 20 kHz

- Signal-noise (1kHz) 90 dB
- Dynamic Range (1kHz) 80 dB
- Crosstalk (1kHz) 90 dB
- Distortion/noise (1kHz) 85 dB

Connection

• Component Video out	Cinch (Red/Green/Blue)
• S-Video output	Mini DIN 4-pins
• Video output	Cinch (yellow)
• Audio L+R Output	Cinch (white/ red)
• Digital Output	1 coaxial, 1 optical IEC958 for CDDA/LPCM IEC1937 for MPEG 1/2, Dolby Digital

Power supply

• Power inlet	110~240V, 50,60 Hz
• Power usage	Approx. 20 watt

Cabinet

• Dimension	435x75x286mm (w x h x d)
• Weight	Approx. 3.8 kg

Package contents
- DVD-video player
- Remote control with batteries
- User's manual
- Audio cable
- Video cable

General functionality
- Stop/ play/ pause
- Fast forward/ backward
- Step forward
- Slow motion
- Title/ chapter/ track select
- Skip next/ skip previous
- Repeat (Chapter/ title/ all) or (Track/ all)
- A-B repeat
- Zoom
- 3D sound
- Screen saver
- Resume (5 discs) after stop
- Parental control and disc lock (80 disc)
- Programming Titles/ chapters or track with Favorite Track Selection (FTS)

DVD functionality
- Multi-angle selection
- Audio selection (1 out of max. 8 languages)
- Subtitles selection (1 out of max. 32 languages)
- Aspect ratio conversion (16:9, 4:3 letterbox, 4:3 Pan Scan)
- Disc Menu support (title menu and root menu)

Video CD functionality
- Playback control for VCD 2.0 discs

SVCD functionality
- Playback control as per SVCD standard
- Audio Selection (1 out of max. 4 languages)

Picture CD & MP3 CD functionality
- Playback pictures one by one automatically.
- Display the picture customer preferred.
- Zoom the picture.
- Rotate the picture.
- Flip the picture vertically or horizontally.
- Control the playback speed.
- Album and track selection.
- Repeat (disc / album / track / picture).
- Nested directory levels supported to 8 levels.
- Maximum album numbers possible is 32.
- Maximum MP3 Tracks Programmable is 96.
- Maximum Number of Tracks is 999.

1 Only Applicable for Single session finalised disc.

2 Typical playing time for movie with 2 spoken languages and 3 subtitle languages.

Dolby Digital is trademark of Dolby Laboratories Licensing Inc. "DTS" and "DTS DIGITAL SURROUND" are registered trademarks of Digital Theater Systems, Inc.
Specifications subject to change without prior notice.

2. Warnings

(GB) WARNING

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wristband with resistance. Keep components and tools at this potential.

ESD

(F) ATTENTION

Tous les IC et beaucoup d´autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévite pourrait être considérablement écourtée par le fait qu´aucune précaution nést prise à leur manipulation.
Lors de réparations, s´assurer de bien être relié au même potentiel que la masse de l´appareil et enfileer le bracelet serti d´une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l´on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.
Sorgen Sie dafür, daß Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(NL) WAARSCHUWING

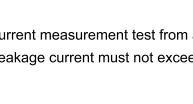
Alle IC´s en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen vermindern. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparationi occorre quindi essere collegato allo stesso potenziale che quello della massa delápparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.
Safety components are marked by the symbol ⚠

SAFETY



(F)
Les normes de sécurité exigent que l´appareil soit remis à l´état d´origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.
Les composants de sécurité sont marqués ⚠

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.
Sicherheitsbauteile sind durch das Symbol ⚠ markiert.

(NL)
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.
De Veiligheidsonderdelen zijn aangeduid met het symbool ⚠

(I)
Le norme di sicurezza estigono che l´apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.
Componenty di sicurezza sono marcati con ⚠

(GB)
After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists. The leakage current must not exceed 0,5mA.

(GB) DANGER: Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.

(S) Varning !
Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

CLASS 1 LASER PRODUCT

(FIN) Varoitus !
Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen !

(F)
"Pour votre sécurite, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Advarsel !
Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

Warning for powersupply on primary side

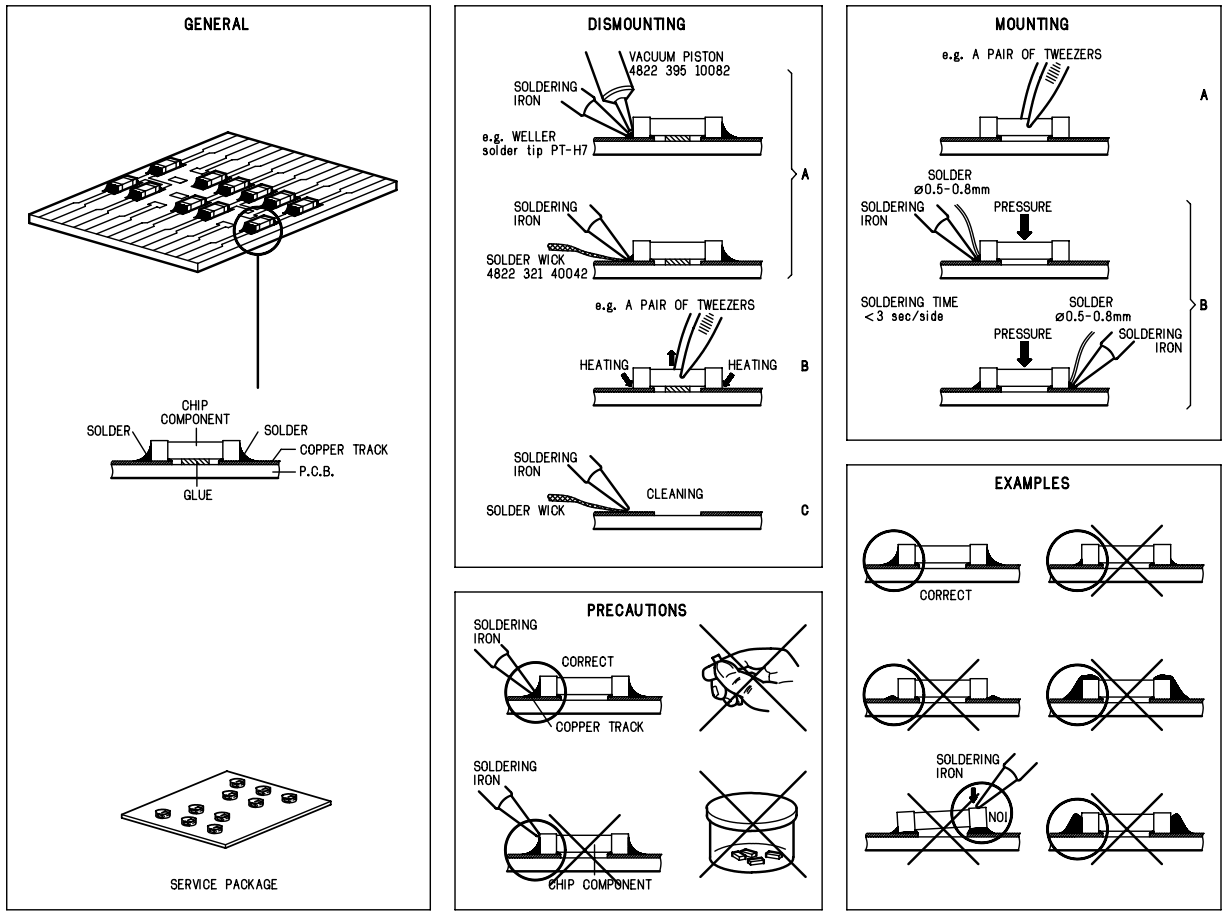
The primary side of the powersupply including the heatsink carries live mains voltage when the player is connected to the mains even when the player is swiched off !

This primary area is not shielded so it is possible to touch copper tracks and/or components when servicing the player. Service personnel have to take precautions to prevent touching this area or components in this area.

The primary side of the powersupply has been indicated with a stripe-marked printed on the printed wiring board.

3. Service hints

HANDLING CHIP COMPONENTS



SERVICE TOOLS

Test discs

Audio signals disc ----------4822 397 30184

Torx screwdrivers

Set (straight, T2 to T20) ----------4822 395 50145

Set (square, T10, T15, T20) ----------4822 395 50132

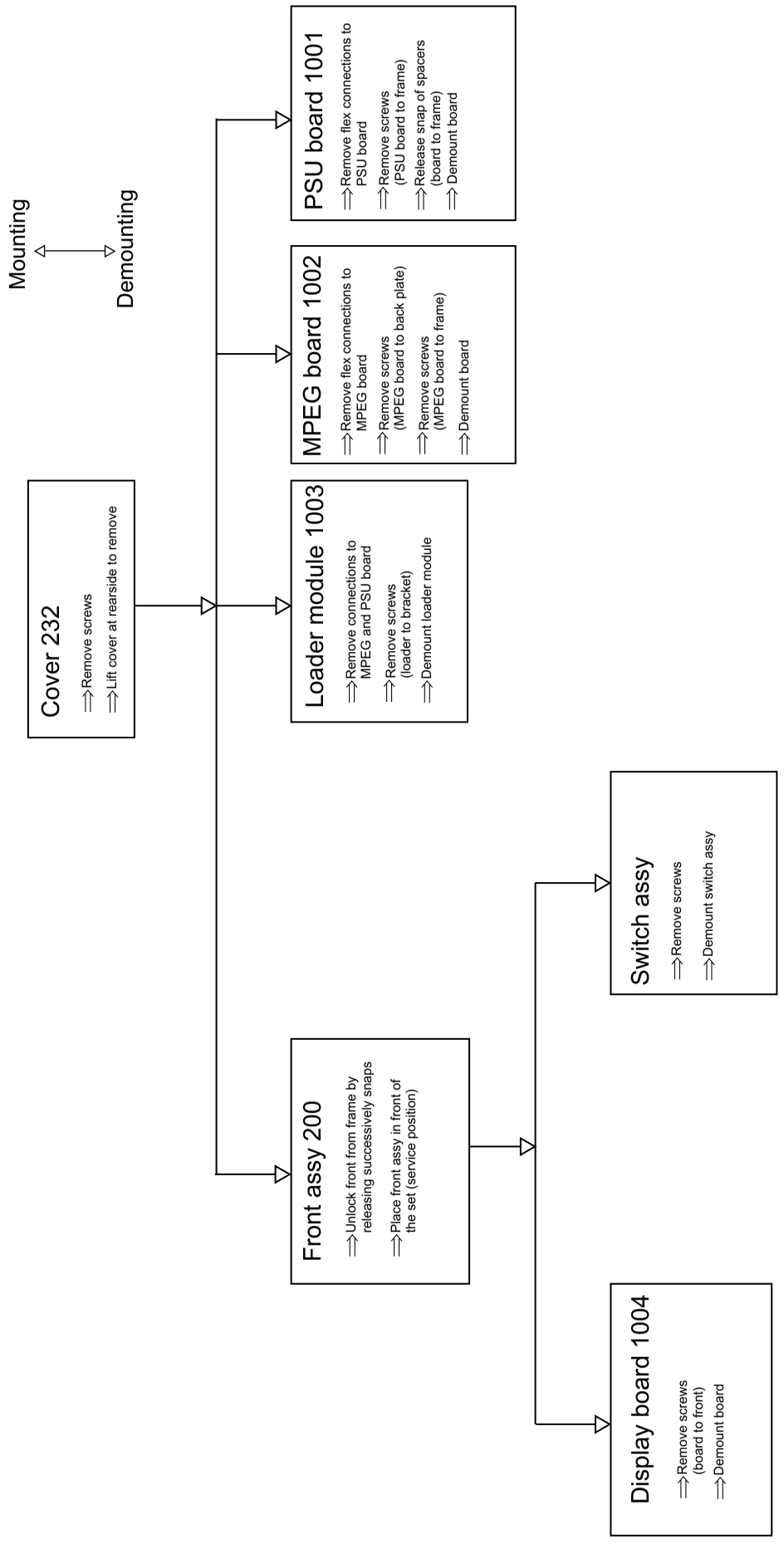
4. Revision information

Service manual version: 1.0

Issue Date : 20 , 6 , 2002

Revision information : N/A

5. Dismantling instructions and exploded view

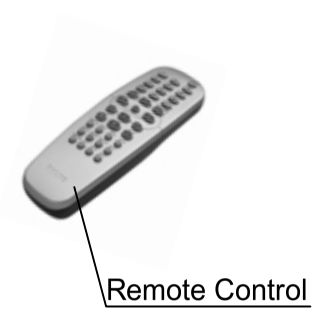


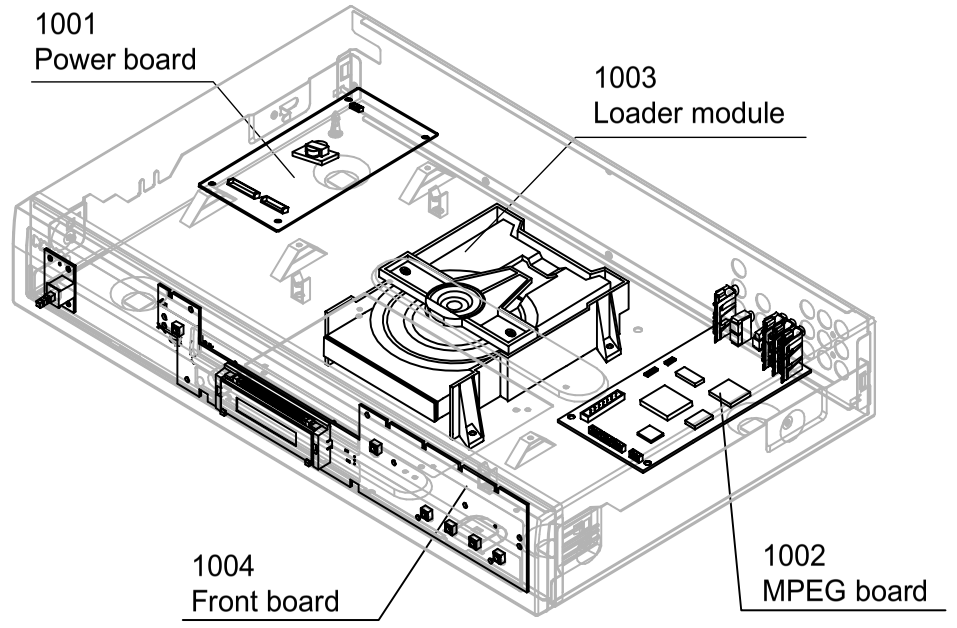
DISMANTLING INSTRUCTIONS DVD724/781

See exploded view for item numbers

5. Dismantling instructions and exploded view

PCB LOCATION DVD724/781



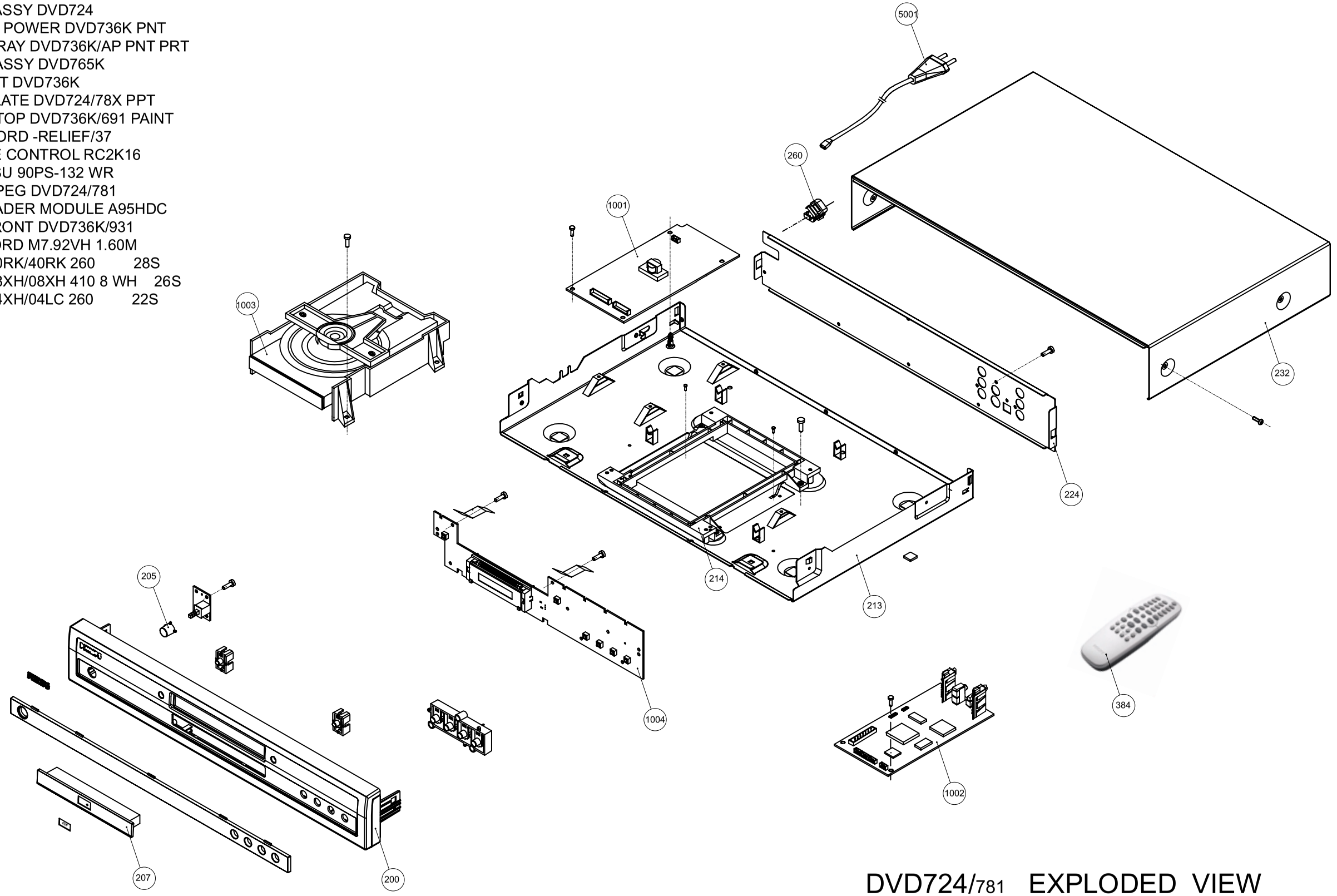


PARTS 12NC LIST

	DVD724/781
1001 PSU board	3141 018 02930
1002 MPEG board	3141 018 03190
1003 Loader module	3141 018 03120
1004 Front board	3141 018 02650
Remote control	3141 017 90220

Dismantling instructions and exploded view

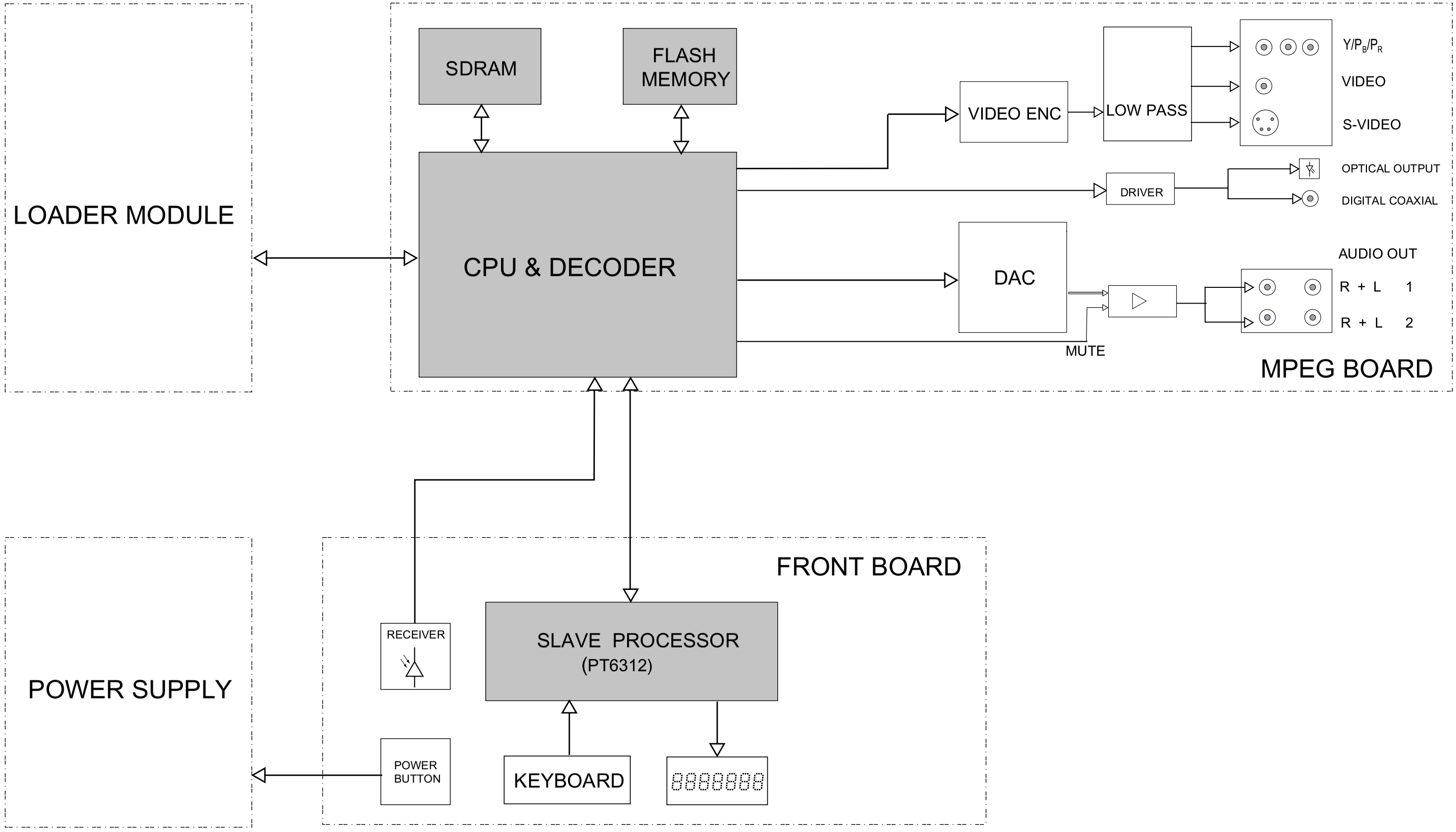
ITEM	12NC	DESCRIPTION
0200	314101776120	FRONT ASSY DVD724
0205	314101775680	BUTTON POWER DVD736K PNT
0207	314101775710	DOOR TRAY DVD736K/AP PNT PRT
0213	314101776690	FRAME ASSY DVD765K
0214	314101424860	BRACKET DVD736K
0224	314101776680	BACK PLATE DVD724/78X PPT
0232	314101776080	COVER TOP DVD736K/691 PAINT
0260	314011322100	MAINSCORD -RELIEF/37
0384	314101790220	REMOTE CONTROL RC2K16
1001	314101802930	PBAS PSU 90PS-132 WR
1002	314101803190	PBAS MPEG DVD724/781
1003	314101803120	DVD LOADER MODULE A95HDC
1004	314101802650	PBAS FRONT DVD736K/931
5001	314101871300	MAIN CORD M7.92VH 1.60M
8001	314101021020	CWAS 40RK/40RK 260 28S
8002	314101021200	CWAS 08XH/08XH 410 8 WH 26S
8003	314101020850	CWAS 04XH/04LC 260 22S



DVD724/781 EXPLODED VIEW

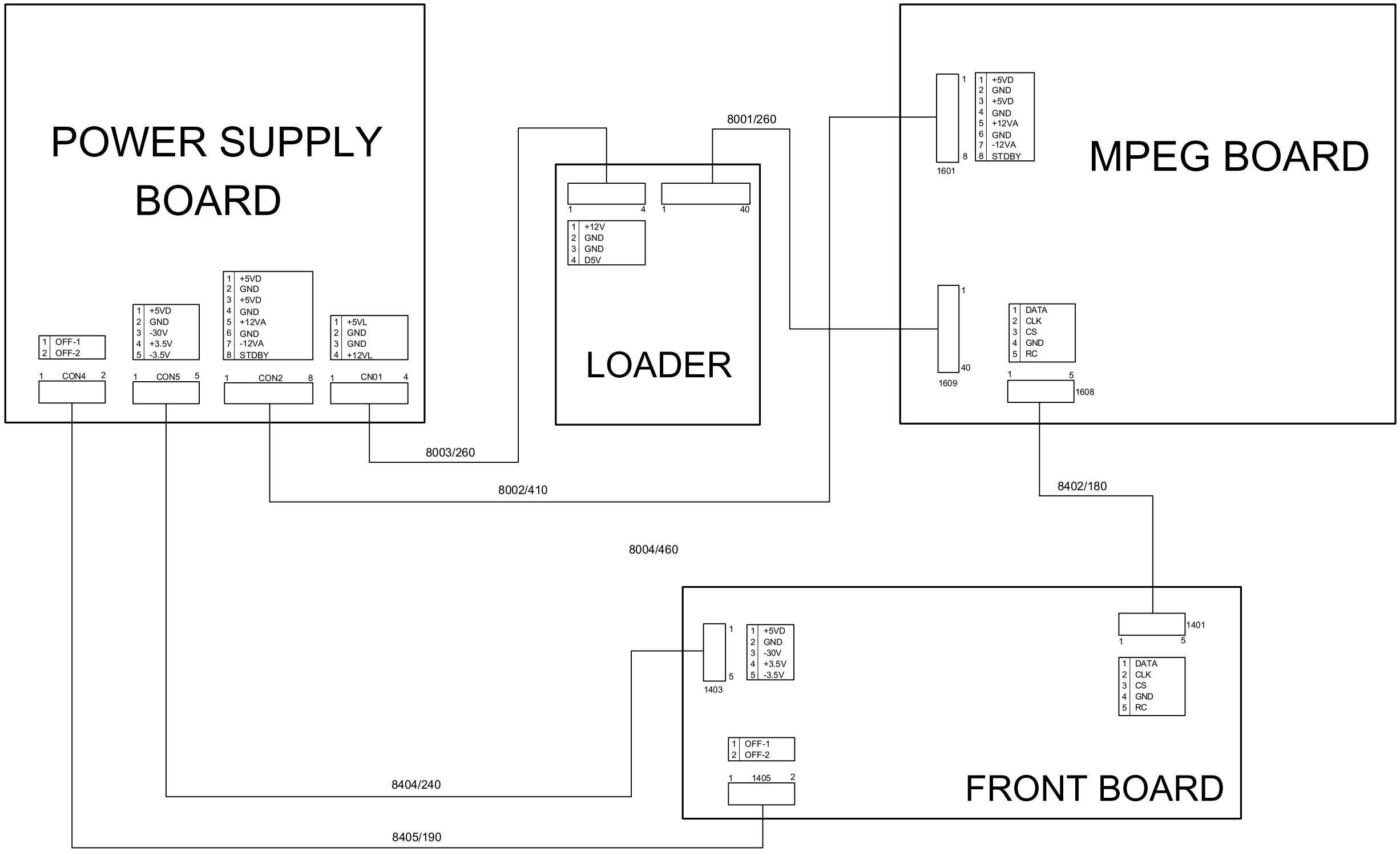
6. Block- and wiring diagram

BLock diagram DVD724/781

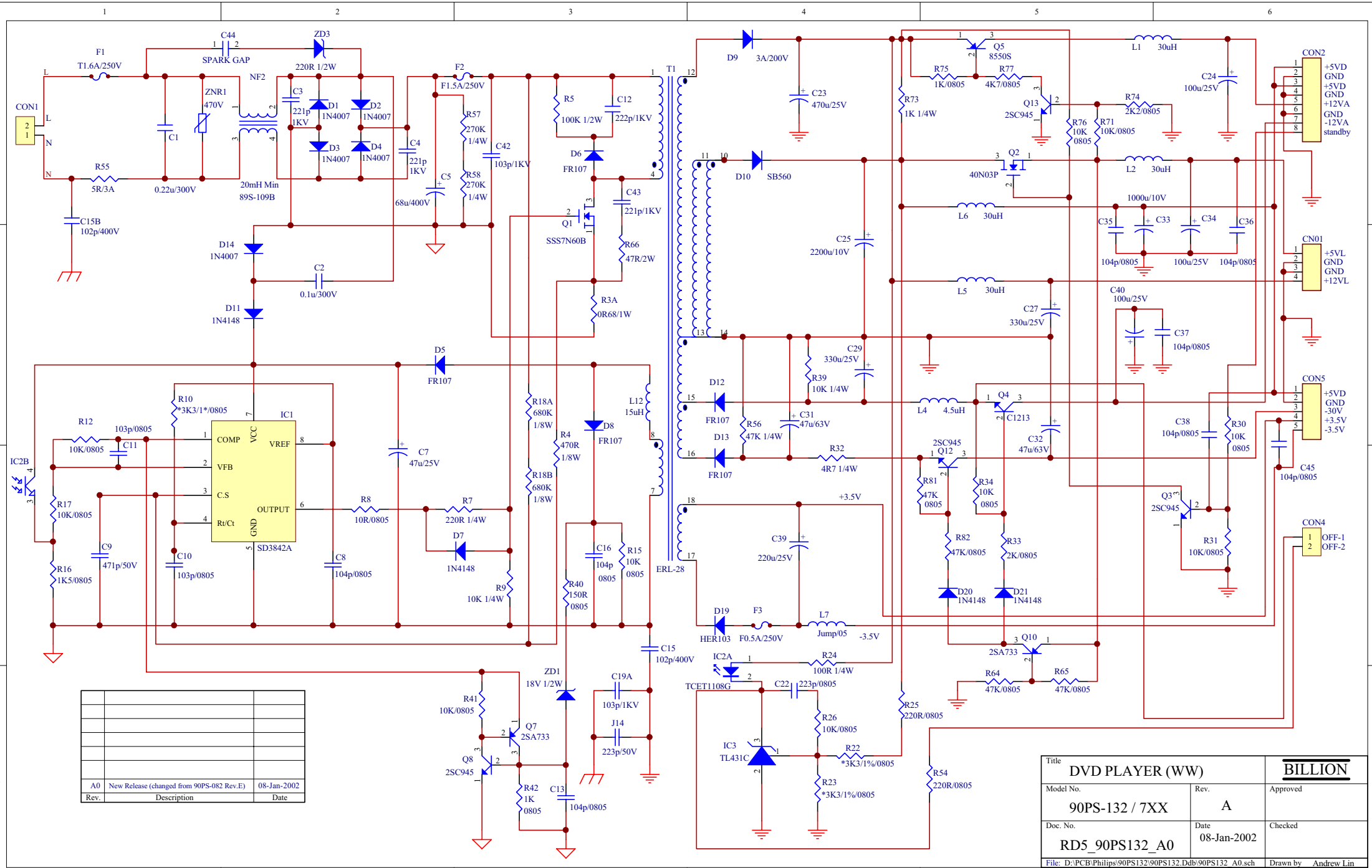


6. Block- and wiring diagram

Wiring diagram DVD724/781



CIRCUIT DIAGRAM

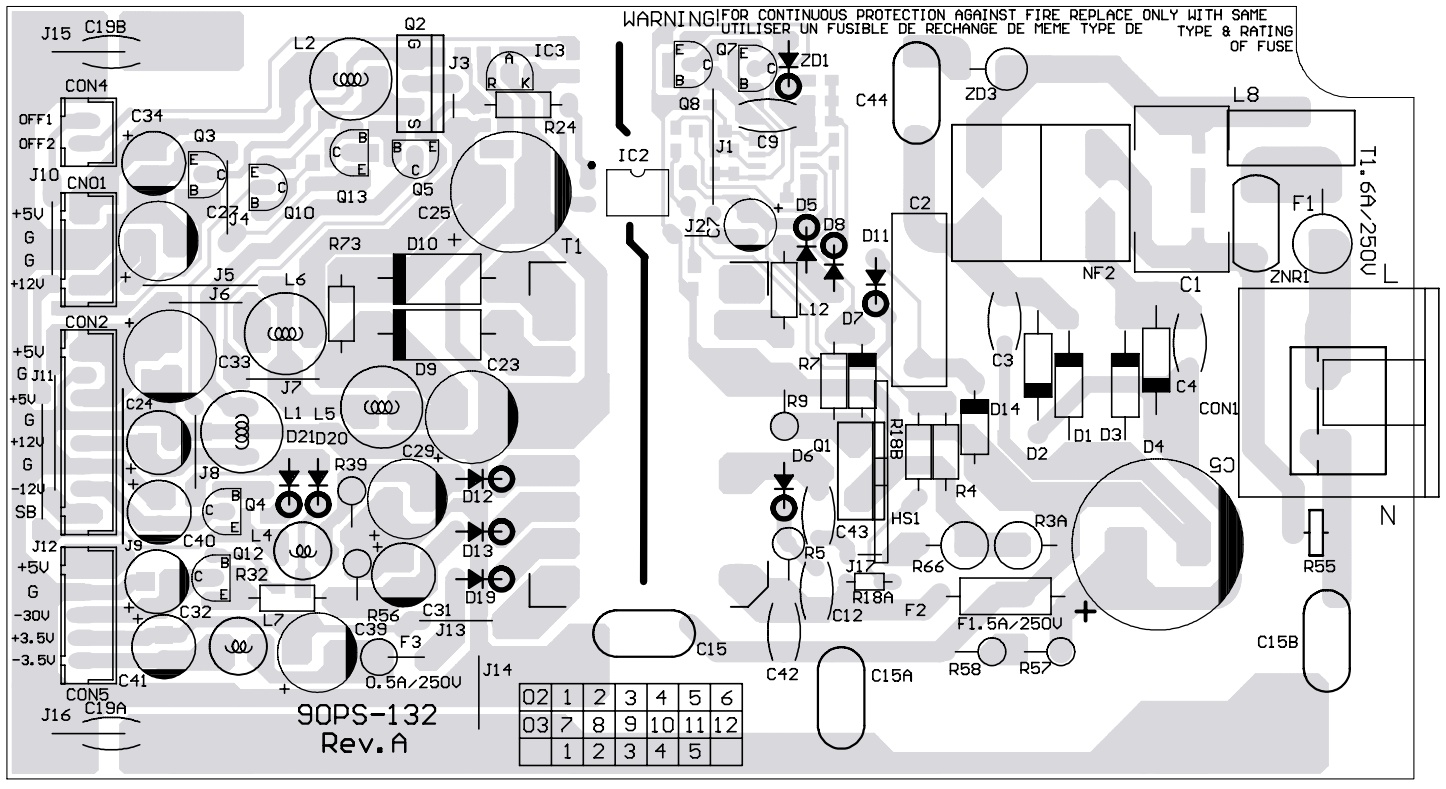


Rev.	Description	Date
A0	New Release (changed from 90PS-082 Rev.E)	08-Jan-2002

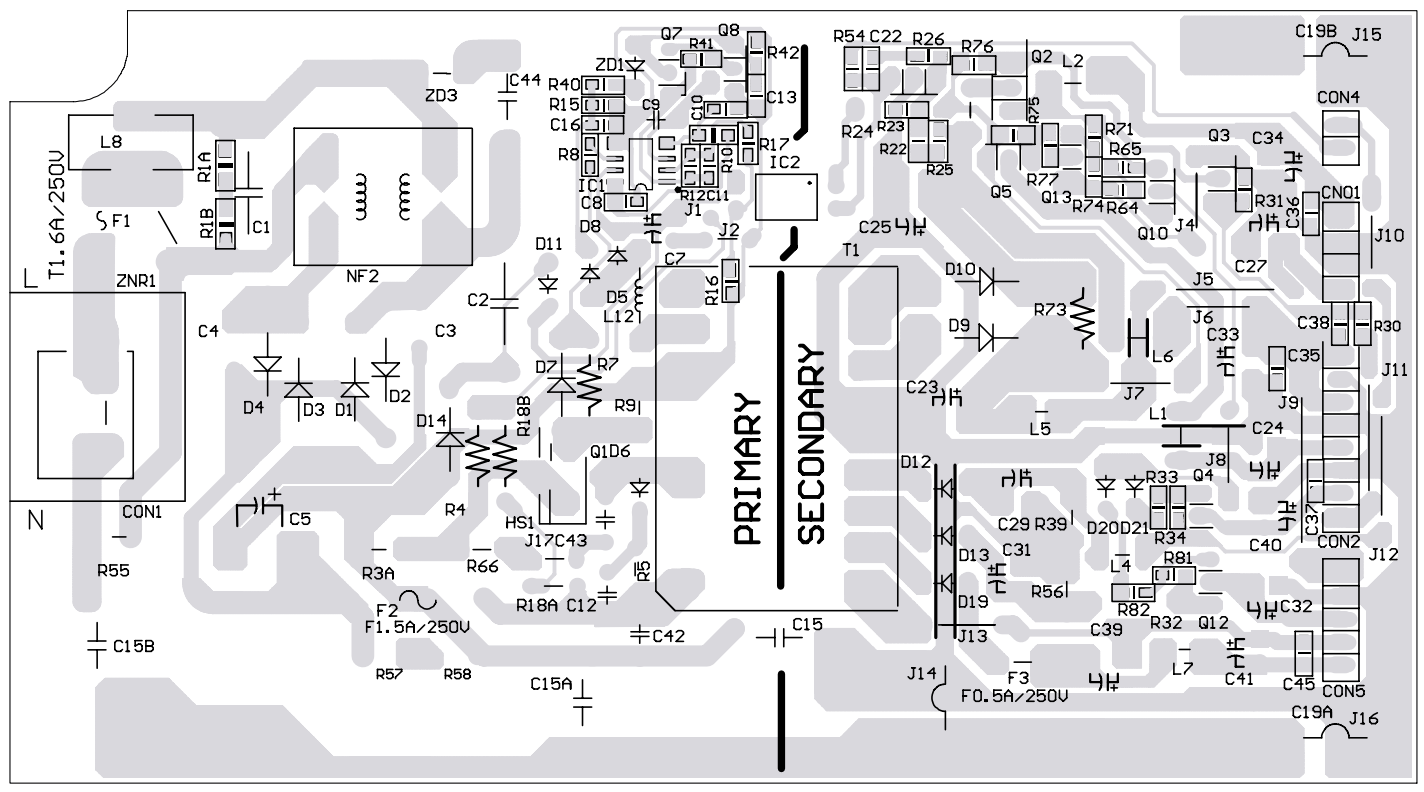
Title: DVD PLAYER (WW)		BILLION
Model No.: 90PS-132 / 7XX	Rev.: A	Approved
Doc. No.: RD5_90PS132_A0	Date: 08-Jan-2002	Checked
File: D:\PCB\Philips\90PS132\90PS132.Ddb\90PS132_A0.sch		Drawn by: Andrew Lin

Layout Power supply board DVD724/781 (90PS-132)

Component side

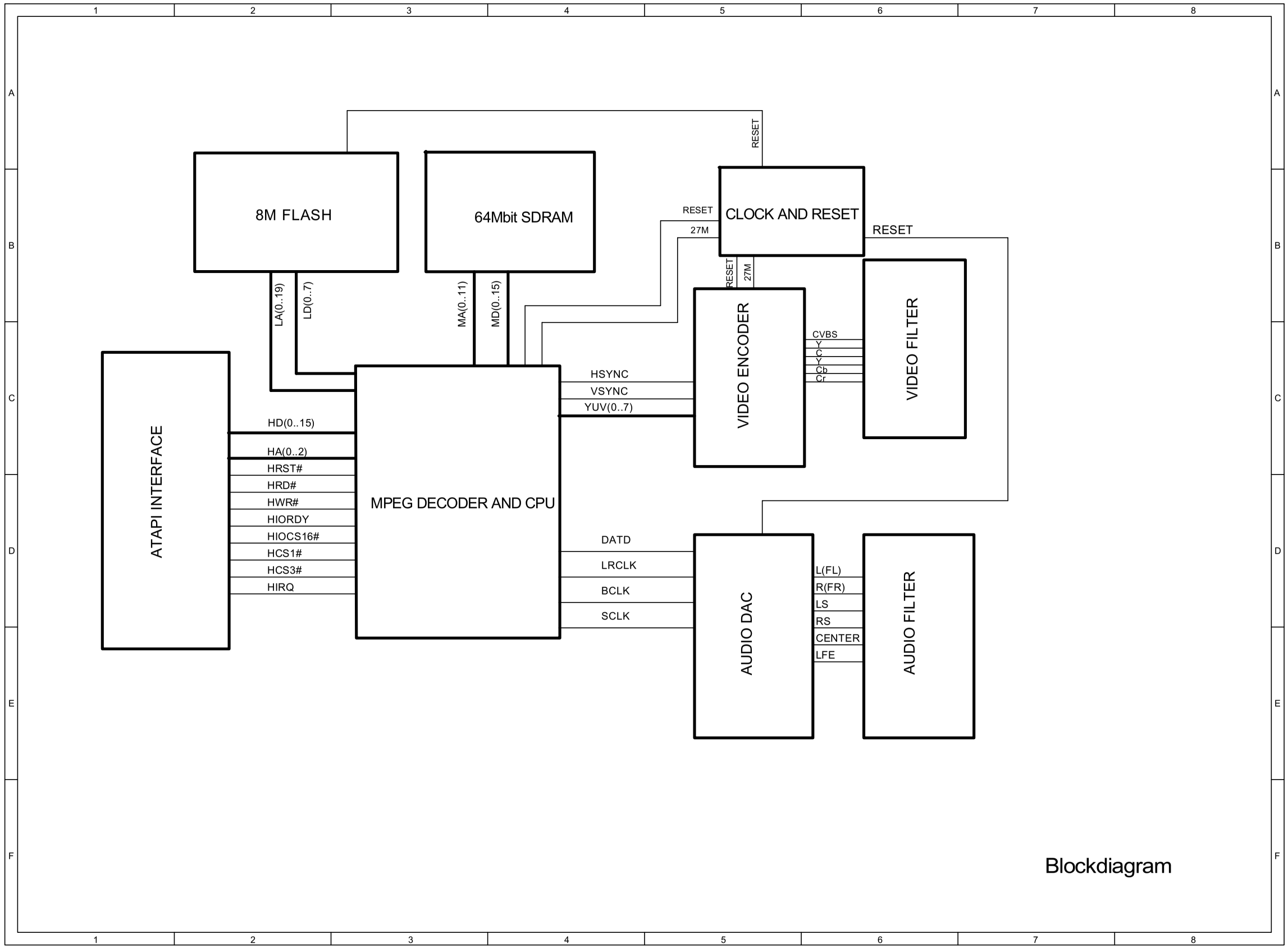


Copper side



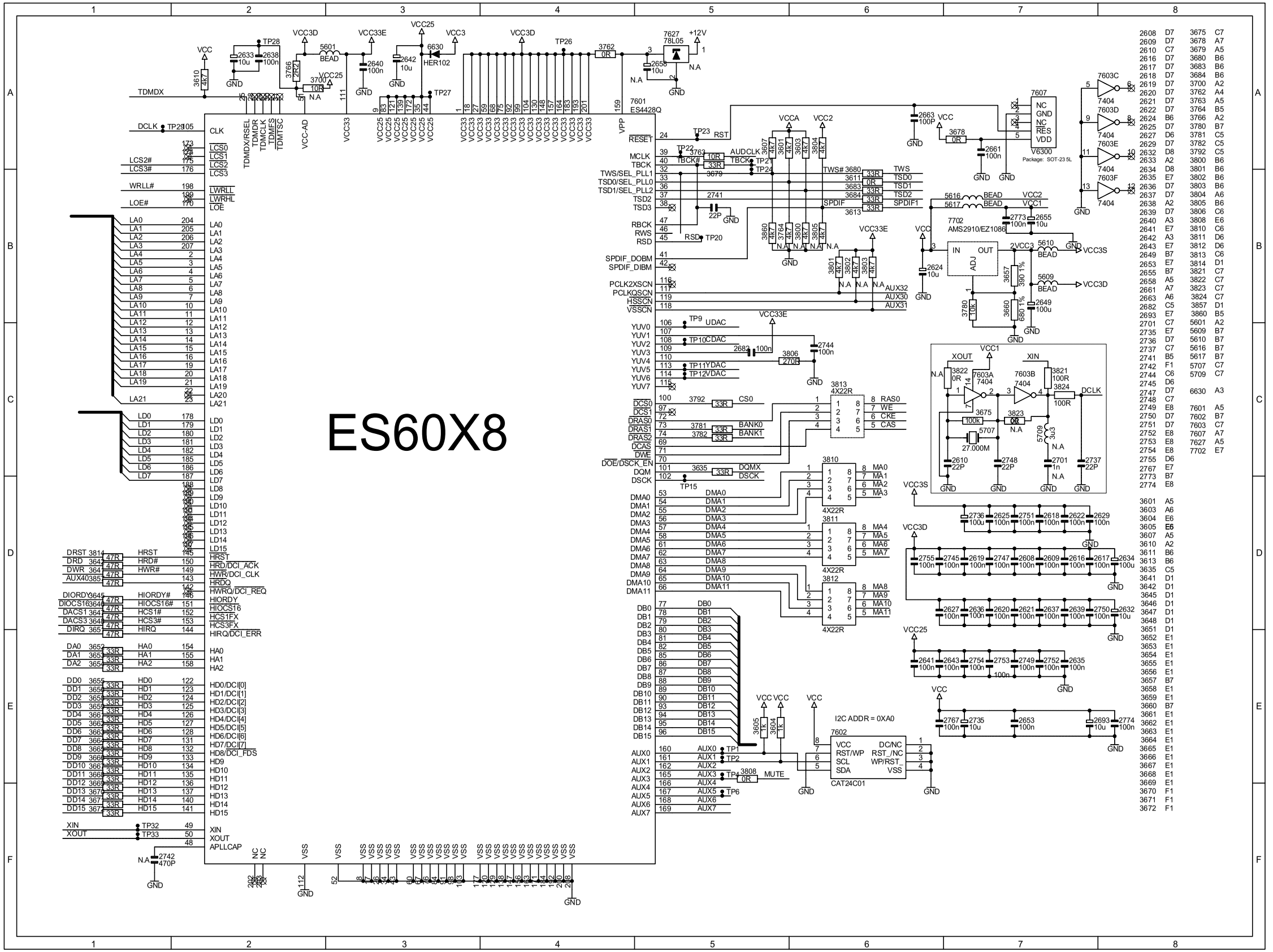
MPEG board DVD724/781

Blockdiagram



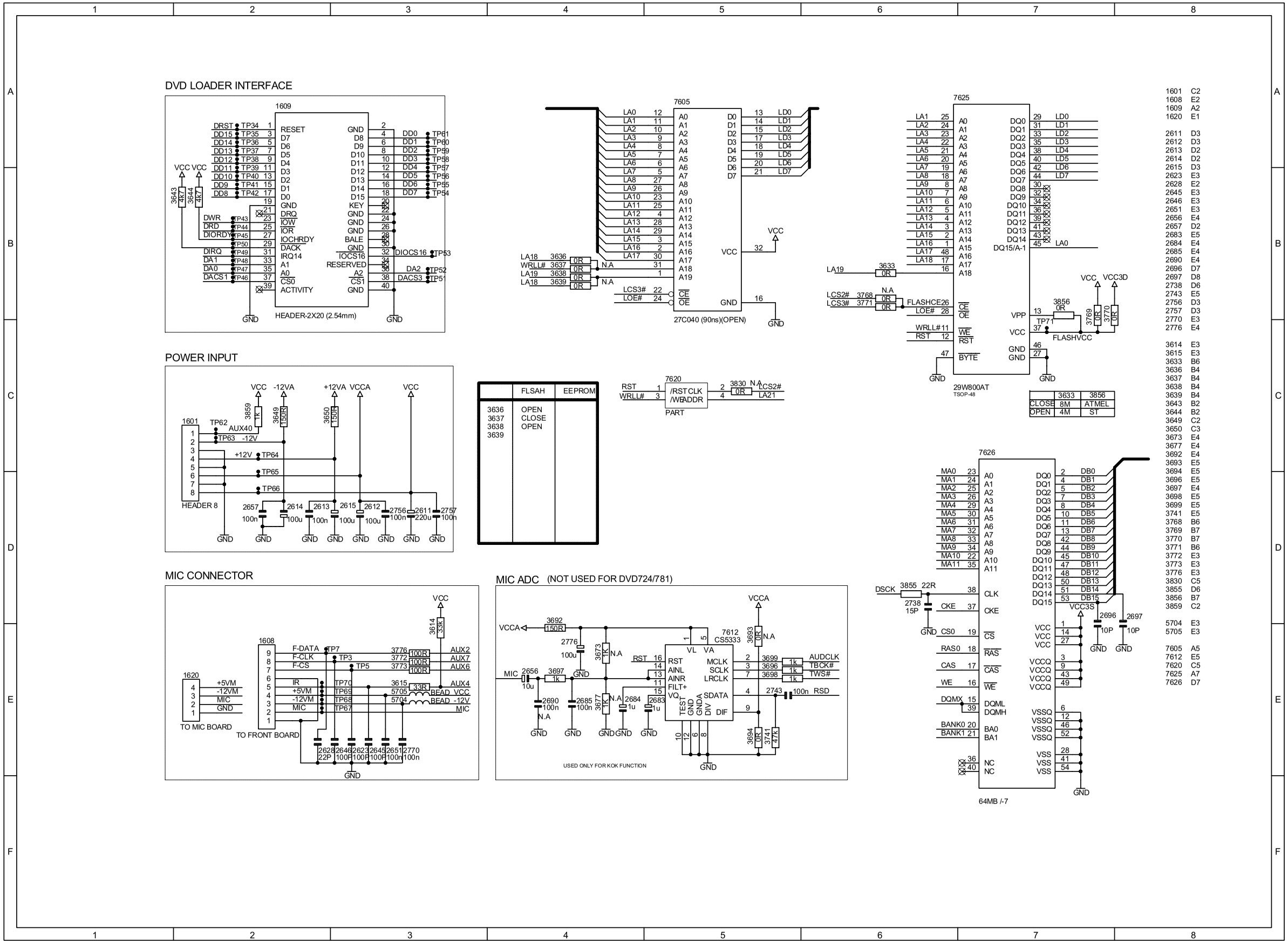
MPEG board DVD724/781

DVD Processor



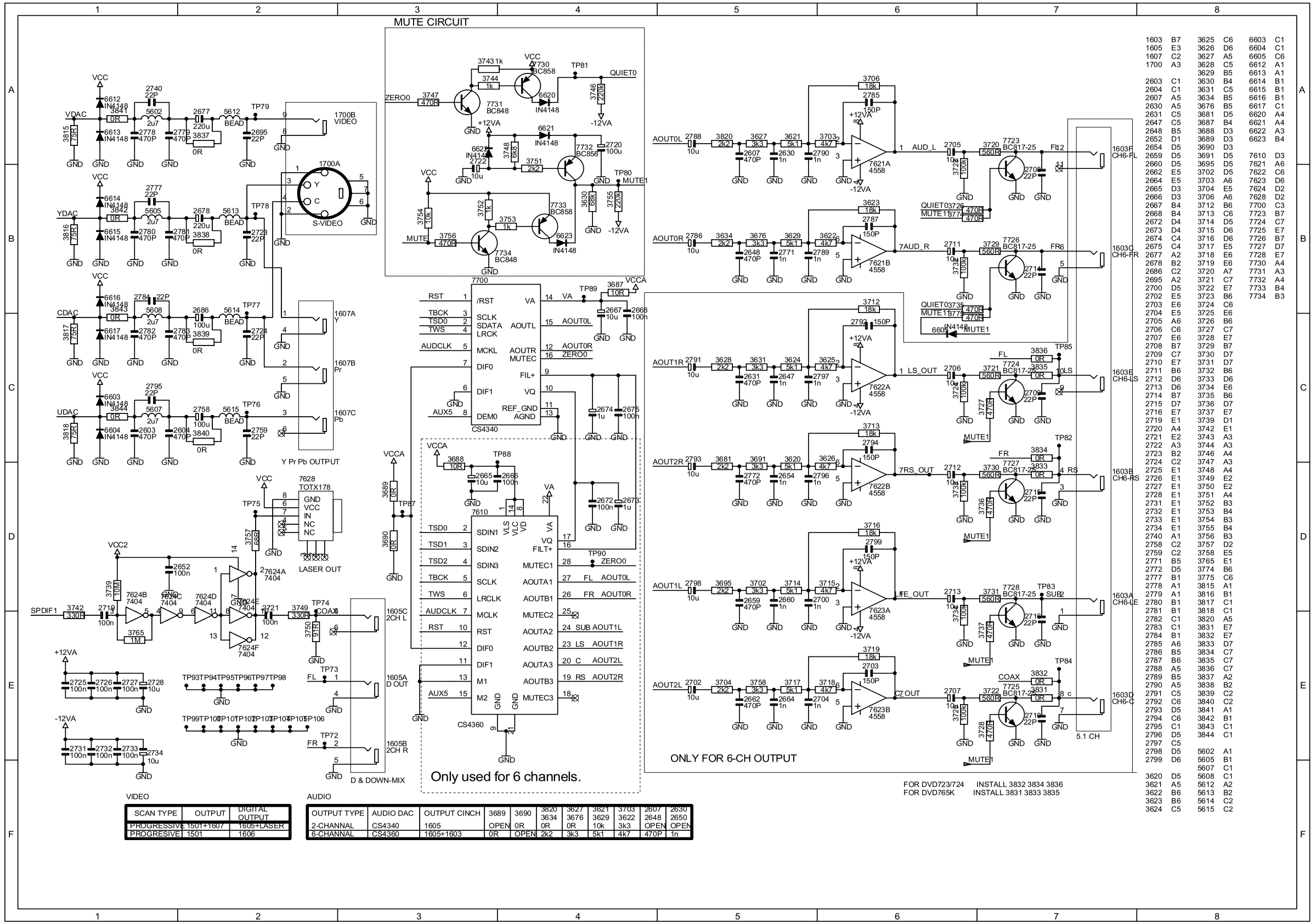
MPEG board DVD724/781

ATAPI & ROM



MPEG board DVD724/781

AUDIO & VIDEO OUTPUT



VIDEO

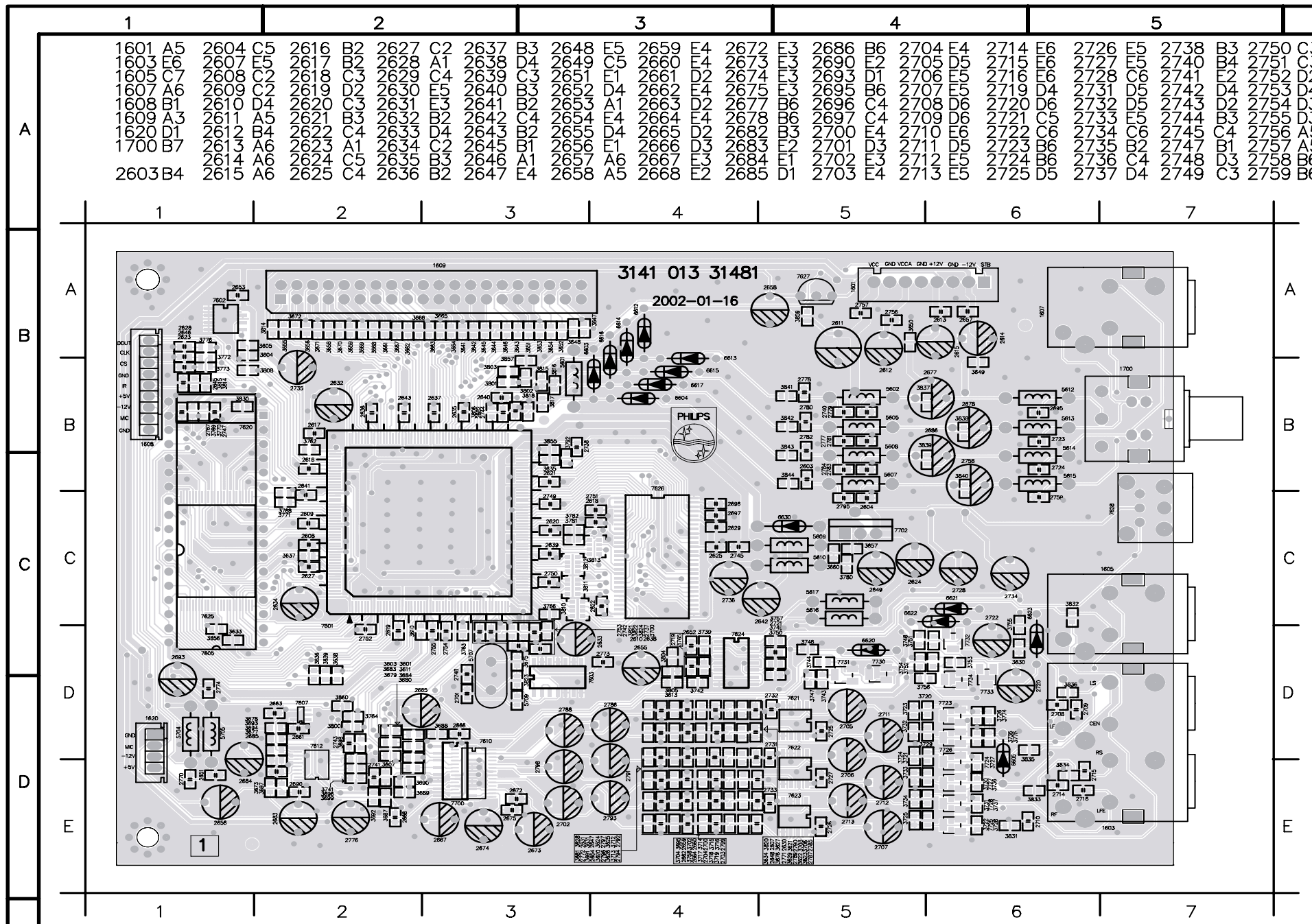
SCAN TYPE	OUTPUT	DIGITAL OUTPUT
PROGRESSIVE	1501+1607	1605+LASER
PROGRESIVE	1501	1606

AUDIO

OUTPUT TYPE	AUDIO DAC	OUTPUT CINCH	3689	3690	3820 3634	3627 3676	3621 3629	3703 3622	2607 2648	2630 2650
2-CHANNAL	CS4340	1605	OPEN	0R	0R	0R	10k	3k3	OPEN	OPEN
6-CHANNAL	CS4360	1605+1603	0R	OPEN	2k2	3k3	5k1	4k7	470P	1n

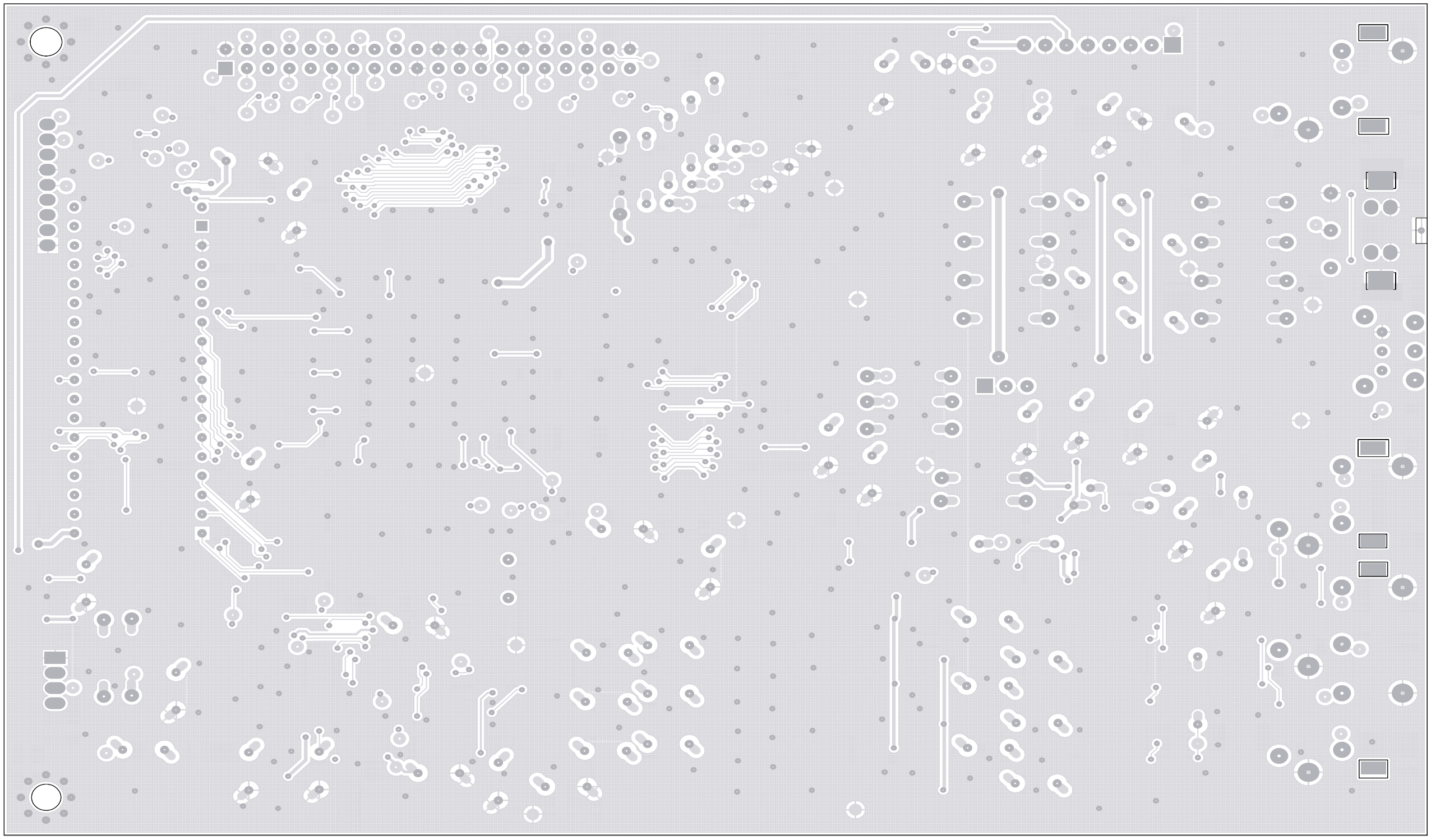
1603	B7	3625	C6	6603	C1
1605	E3	3626	D6	6604	C1
1607	C2	3627	A5	6605	C6
1700	A3	3628	C5	6612	A1
		3629	B5	6613	A1
2603	C1	3630	B4	6614	B1
2604	C1	3631	C5	6615	B1
2607	A5	3634	B5	6616	B1
2630	A5	3676	B5	6617	C1
2631	C5	3681	D5	6620	A4
2647	C5	3687	B4	6621	A4
2648	B5	3688	D3	6622	A3
2652	D1	3689	D3	6623	B4
2654	D5	3690	D3		
2659	D5	3691	D5	7610	D3
2660	D5	3695	D5	7621	A6
2662	E5	3702	D5	7622	C6
2664	E5	3703	A6	7623	D6
2665	D3	3704	E5	7624	D2
2666	D3	3706	A6	7628	D2
2667	B4	3712	B6	7700	C3
2668	B4	3713	C6	7723	B7
2672	D4	3714	D5	7724	C7
2673	D4	3715	D6	7725	E7
2674	C4	3716	D6	7726	B7
2675	C4	3717	E5	7727	D7
2677	A2	3718	E6	7728	E7
2678	B2	3719	E6	7730	A4
2686	C2	3720	A7	7731	A3
2695	A2	3721	C7	7732	A4
2700	D5	3722	E7	7733	B4
2702	E5	3723	B6	7734	B3
2703	E6	3724	C6		
2704	E5	3725	E6		
2705	A6	3726	B6		
2706	C6	3727	C7		
2707	E6	3728	E7		
2708	B7	3729	B7		
2709	C7	3730	D7		
2710	E7	3731	D7		
2711	B6	3732	B6		
2712	D6	3733	D6		
2713	D6	3734	E6		
2714	B7	3735	B6		
2715	D7	3736	D7		
2716	E7	3737	E7		
2719	E1	3739	D1		
2720	A4	3742	E1		
2721	E2	3743	A3		
2722	A3	3744	A3		
2723	B2	3746	A4		
2724	C2	3747	A3		
2725	E1	3748	A4		
2726	E1	3749	E2		
2727	E1	3750	E2		
2728	E1	3751	A4		
2731	E1	3752	B3		
2732	E1	3753	B4		
2733	E1	3754	B3		
2734	E1	3755	B4		
2740	A1	3756	B3		
2758	C2	3757	D2		
2759	C2	3758	E5		
2771	B5	3765	E1		
2772	D5	3774	B6		
2777	B1	3775	C6		
2778	A1	3815	A1		
2779	A1	3816	B1		
2780	B1	3817	C1		
2781	B1	3818	C1		
2782	C1	3820	A5		
2783	C1	3831	E7		
2784	B1	3832	E7		
2785	A6	3833	D7		
2786	B5	3834	C7		
2787	B6	3835	C7		
2788	A5	3836	C7		
2789	B5	3837	A2		
2790	A5	3838	B2		
2791	C5	3839	C2		
2792	C6	3840	C2		
2793	D5	3841	A1		
2794	C6	3842	B1		
2795	C1	3843	C1		
2796	D5	3844	C1		
2797	C5				
2798	D5	5602	A1		
2799	D6	5605	B1		
		5607	C1		
3620	D5	5608	C1		
3621	A5	5612	A2		
3622	B6	5613	B2		
3623	B6	5614	C2		
3624	C5	5615	C2		

Layout MPEG board (component side) DVD724/781



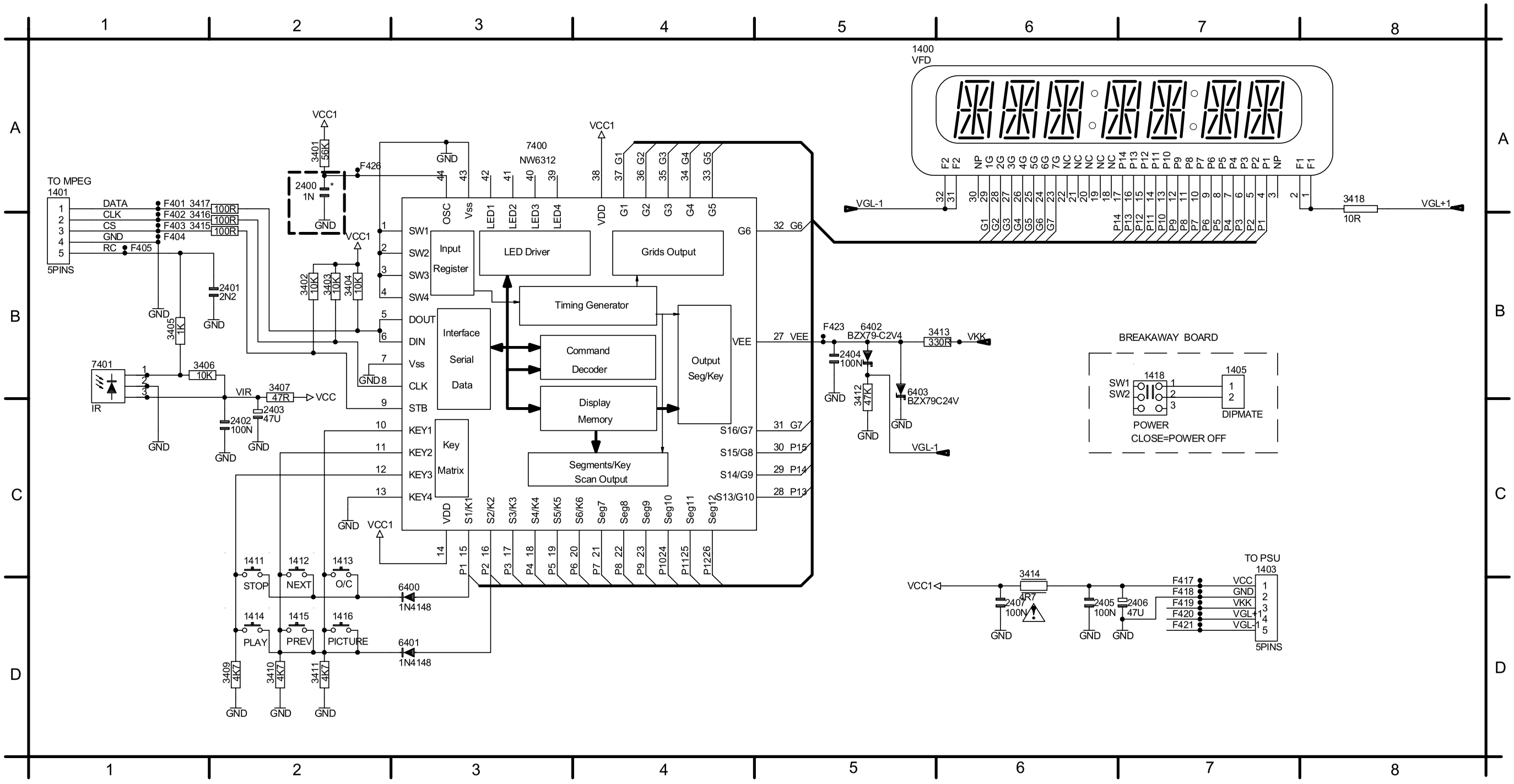
1601	A5	2604	C5	2616	B2	2627	C2	2637	B3	2648	E5	2659	E4	2672	E3	2686	B6	2704	E4	2714	E6	2726	E5	2738	B3	2750	C3	2767	B1	3644	A3	3718	E4	3808	B1	6620	D5
1603	E6	2607	E5	2617	B2	2628	A1	2638	D4	2649	C5	2660	E4	2673	E3	2690	E2	2705	D5	2715	E6	2727	E5	2740	B4	2751	C3	2770	E1	3645	A3	3719	E4	3810	C3	6621	C6
1605	C7	2608	C2	2618	C3	2629	C4	2639	C3	2651	E1	2661	D2	2674	E3	2693	D1	2706	E5	2716	E6	2728	C6	2741	E2	2752	D2	2771	E5	3646	A3	3720	D5	3811	C3	6622	C5
1607	A6	2609	C2	2619	D2	2630	E5	2640	B3	2652	D4	2662	E4	2675	E3	2695	B6	2707	E5	2719	D4	2731	D5	2742	D4	2753	D4	2772	E3	3647	A3	3721	D5	3812	C3	6623	C6
1608	B1	2610	D4	2620	C3	2631	E3	2641	B2	2653	A1	2663	D2	2677	B6	2696	C4	2708	D6	2720	D6	2732	D5	2743	D2	2754	D3	2773	D4	3648	A3	3722	E6	3813	C3	6630	C5
1609	A3	2611	A5	2621	B3	2632	B2	2642	C4	2654	E4	2664	E4	2678	B6	2697	C4	2709	D6	2721	C5	2733	E5	2744	B3	2755	D3	2774	D1	3649	B6	3723	D5	3814	A2		
1620	D1	2612	B4	2622	C4	2633	D4	2643	B2	2655	D4	2665	D2	2682	B3	2700	E4	2710	E6	2722	C6	2734	C6	2745	C4	2756	A5	2776	E2	3650	A5	3724	D5	3815	B3	7601	D2
1700	B7	2613	A6	2623	A1	2634	C2	2645	B1	2656	E1	2666	D3	2683	E2	2701	D3	2711	D5	2723	B6	2735	B2	2747	B1	2757	A5	2777	B4	3651	A3	3725	E5	3816	B3	7602	A1
		2614	A6	2624	C5	2635	B3	2646	A1	2657	A6	2667	E3	2684	E1	2702	E3	2712	E5	2724	B6	2736	C4	2748	D3	2758	B6	2778	B4	3652	A3	3726	D6	3817	B3	7603	D4
2603	B4	2615	A6	2625	C4	2636	B2	2647	E4	2658	A5	2668	E2	2685	D1	2703	E4	2713	E5	2725	D5	2737	D4	2749	C3	2759	B6	2779	B4	3653	A3	3727	D6	3818	B3	7605	D1
																												2780	B4	3654	A3	3728	E6	3820	E5	7607	D2
																												2781	B4	3655	A2	3729	D5	3821	D4	7610	D3
																												2782	B4	3656	A2	3730	E6	3822	D4	7612	D2
																												2783	B4	3657	C5	3731	E6	3823	D3	7620	B1
																												2784	B4	3658	A2	3732	D5	3824	D4	7621	D5
																												2785	E5	3659	A2	3733	E5	3830	B1	7622	D5
																												2786	D4	3660	C5	3734	E5	3831	E6	7623	E5
																												2787	E5	3661	A2	3735	D6	3832	C6	7624	D4
																												2788	D3	3662	A2	3736	E6	3833	E6	7625	C1
																												2789	E5	3663	A3	3737	E6	3834	E6	7626	B4
																												2790	E5	3664	A3	3739	D4	3835	D6	7627	A5
																												2791	E4	3665	A3	3741	E2	3836	D6	7628	C7
																												2792	E4	3666	A2	3742	D4	3837	B6	7700	E3
																												2793	E4	3667	A2	3743	D5	3838	B6	7702	C5
																												2794	E4	3668	A2	3744	D5	3839	B6	7723	D6
																												2795	C5	3669	A2	3746	D5	3840	B6	7724	D6
																												2796	E4	3670	A2	3747	D5	3841	B4	7725	E6
																												2797	E4	3671	A2	3748	D5	3842	B4	7726	D6
																												2798	E3	3672	A2	3749	C5	3843	B4	7727	E6
																												2799	E4	3673	E2	3750	C5	3844	B4	7728	E6
																														3675	D3	3751	D5	3855	B3	7730	D5
																												3601	D2	3676	E5	3752	D5	3856	D1	7731	D5
																												3603	D2	3677	D1	3753	D6	3857	B3	7732	D6
																												3604	A2	3678	D1	3754	D5	3859	A5	7733	D6
																												3605	A2	3679	D2	3755	C6	3860	D2	7734	D6
																												3607	E2	3680	D2	3756	D5				
																												3610	D2	3681	E3	3757	C5	5601	B3		
																												3611	D2	3683	D2	3758	E4	5602	B4		
																												3613	D4	3684	D2	3762	B2	5605	B4		
																												3614	B1	3687	E2	3763	D3	5607	B4		
																												3615	B1	3688	D3	3764	D2	5608	B4		
																												3620	E4	3689	E2	3765	D4	5609	C5		
																												3621	E5	3690	E2	3766	C3	5610	C5		
																												3622	E5	3691	E3	3768	C2	5612	B6		
																												3623	E5	3692	E2	3769	B1	5613	B6		
																												3624	E4	3693	D1	3770	B1	5614	B6		
																												3625	E4	3694	D1	3771	C2	5615	B6		
																												3626	E4	3695	E4	3772	A1	5616	C5		
																												3627	E5	3696	E2	3773	B1	5617	C5		
																												3628	E3	3697	E2	3774	D6	5704	D1		
																												3629	E5	3698	D2	3775	D6	5705	D1		
																												3630	D6	3699	E2	3776	A1	5707	D3		
																												3631	E3	3700	D4	3780	C5	5709	D3		
																												3633	D1	3702	E4	3781	C3				
																												3634	E5	3703	E5	3782	C3	6603	A3		
																												3635	B3	3704	E4	3792	B3	6604	B4		
																												3636	D2	3706	E5	3800	D2	6605	D6		
																												3637	C2	3712	E4	3801	B3	6612	A4		
																												3638	D2	3713	E4	3802	B3	6613	B4		
																												3639	D2	3714	E4	3803	B3	6614	A4		
																												3641	A3	3715	E4	3804	D4	6615	B4		
																												3642	A3	3716	E4	3805	D4	6616	A4		
																												3643	A3	3717	E4	3806	B3	6617	B4		

Layout MPEG board (copper side) DVD724/781



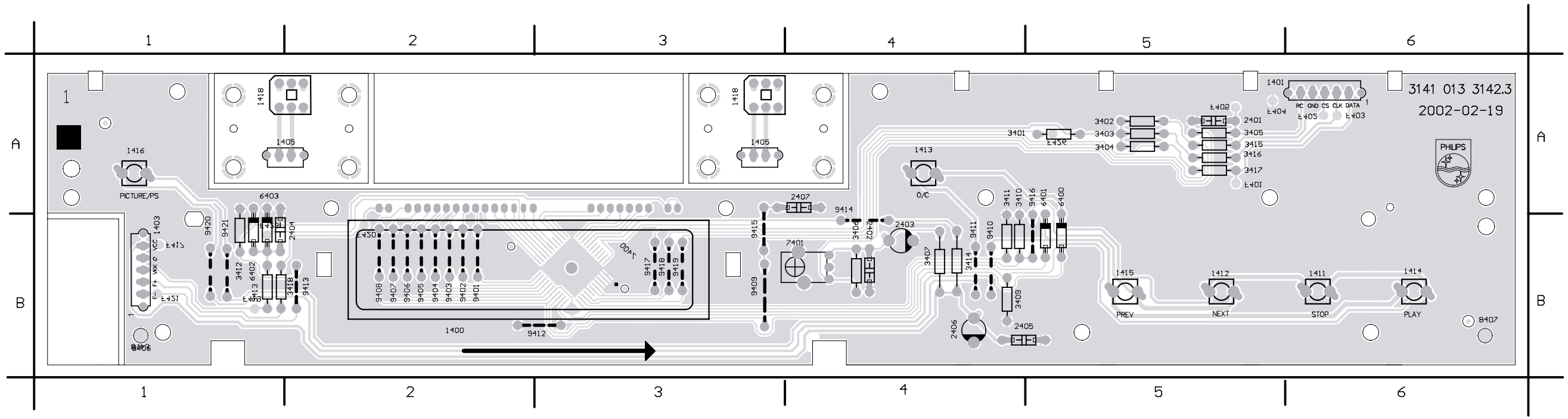
Front board DVD724/781

1400	A5	1411	C2	1415	D2	2401	B2	2405	D6	3402	B2	3406	B1	3411	D2	3415	B1	6400	D3
1401	B1	1412	C2	1416	D2	2402	C2	2406	D7	3403	B2	3407	B2	3412	B5	3416	A1	6401	D3
1403	D7	1413	C2	1418	B7	2403	B2	2407	D6	3404	B2	3409	D2	3413	B5	3417	A1	6402	B5
1405	B7	1414	D2	2400	A2	2404	B5	3401	A2	3405	B1	3410	D2	3414	D6	3418	A8	6403	C5



Layout Front board DVD724/781(component side)

1400 A2	1411 B6	1416 A1	2403 B4	3401 A5	3406 B4	3412 B1	3416 A5	6402 B1	9402 B2	9407 B2	9412 B3	9417 B3
1401 A6	1412 B5	1418 A2	2404 B1	3402 A5	3407 B4	3413 B1	3417 A5	6403 B1	9403 B2	9408 B2	9413 B2	9418 B3
1403 B1	1413 A4	1418 A3	2405 B4	3403 A5	3409 B4	3414 B4	3418 B1	7400 B3	9404 B2	9409 B3	9414 B4	9419 B3
1405 A2	1414 B6	2401 A5	2406 B4	3404 A5	3410 B4	3415 A5	6400 B5	7401 B4	9405 B2	9410 B4	9415 B3	9420 B1
1405 A3	1415 B5	2402 B4	2407 A4	3405 A5	3411 B4	3416 A5	6401 B5	9401 B2	9406 B2	9411 B4	9416 B4	9421 B1



8. Spare parts list DVD724/781

Mechanical

	200	3141 017 76120	FRONT ASSY DVD724
	205	3141 017 75680	BUTTON POWER DVD736K PNT
	207	3141 017 75710	DOOR TRAY DVD736K/AP PNT PRT
	213	3141 017 76690	FRAME ASSY DVD765K
	214	3141 014 24860	BRACKET DVD736K
	224	3141 017 76680	BACK PLATE DVD724/78X PPT
	232	3141 017 76080	COVER TOP DVD736K/691 PAINT
	260	3140 113 22100	MAINS CORD RELIEF/37
	384	3141 017 90220	REMOTE CONTROL DVD-Q30/751
⚠	1001	3141 018 02930	PBAS PSU 90PS-132 WR BILLION
	1002	3141 018 03190	PBAS MPEG DVD724/781
	1003	3141 018 03120	DVD LOADER MODULE A95HDC
	1004	3141 018 02650	PBAS FRONT DVD736K/931
⚠	5001	3141 018 71300	MAIN CORD M7.92VH 1.60M
	8001	3141 010 21020	CWAS 40RK/40RK 260 40 GR 28S
	8002	3141 010 21200	CWAS 08XH/08XH 410 26S
	8003	3141 010 20850	CWAS XH4P/LC4P 260 22S

MPEG BOARD 3141 018 03190

MISCELLANEOUS

1601	2422 025 09074	CONNECTOR 8P TOP
1603	3141 010 30380	CON BM CINCH V 5P F B
1607	3141 010 30300	CON BM CINCH V 3P F GNBURD
1608	4822 267 40624	5-FOLD X
1609	3141 010 30350	CON BM V 40P M 2.54 1-440094-2
1700	3141 010 30250	CON S-VEDIO AND CVBS

CAPACITORS

2603	4822 126 13881	470PF 5% 50V
2604	4822 126 13881	470PF 5% 50V
2608	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2609	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2610	9965 000 05913	22PF +-2% 50V
2611	4822 124 40196	220UF20% 16V
2612	4822 124 40207	100UF20% 25V
2613	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2614	4822 124 40207	100UF20% 25V
2615	4822 124 40207	100UF20% 25V
2616	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2617	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2618	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2619	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2620	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2621	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2622	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2623	2020 552 94427	CER1 0603 NP0 50V 100P PM5 R
2624	4822 124 11947	10UF 20% 16V
2625	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2627	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2628	4822 122 33741	10PF10%NP0 50V
2629	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2632	4822 124 11947	10UF 20% 16V
2633	4822 124 11947	10UF 20% 16V
2634	4822 124 40207	100UF20% 25V
2635	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2636	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2637	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2638	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2639	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2640	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2641	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2642	4822 124 11947	10UF 20% 16V
2643	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2645	2020 552 94427	CER1 0603 NP0 50V 100P PM5 R
2646	2020 552 94427	CER1 0603 NP0 50V 100P PM5 R
2649	4822 124 40207	100UF20% 25V
2652	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2655	4822 124 11947	10UF 20% 16V
2657	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2661	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2663	2020 552 94427	CER1 0603 NP0 50V 100P PM5 R
2667	4822 124 11947	10UF 20% 16V
2668	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2672	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2673	4822 124 21913	1UF20% 63V
2674	4822 124 21913	1UF20% 63V
2675	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2682	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2695	9965 000 05913	22PF +-2% 50V
2705	4822 124 11947	10UF 20% 16V
2711	4822 124 11947	10UF 20% 16V
2714	9965 000 05913	22PF +-2% 50V
2719	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2720	4822 124 40207	100UF20% 25V
2721	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2722	4822 124 11947	10UF 20% 16V
2723	9965 000 05913	22PF +-2% 50V
2724	9965 000 05913	22PF +-2% 50V
2725	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2728	4822 124 11947	10UF 20% 16V
2732	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2734	4822 124 11947	10UF 20% 16V
2736	4822 124 40207	100UF20% 25V
2737	9965 000 05913	22PF +-2% 50V
2738	4822 122 33752	15PF 5%NP0 50V
2744	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2745	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2747	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2748	9965 000 05913	22PF +-2% 50V
2749	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2750	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2751	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2752	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2753	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2754	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2755	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2756	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2757	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2759	9965 000 05913	22PF +-2% 50V
2773	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2774	2222 586 18812	CER2 0603 X7R 50V 100N PM10 R
2778	4822 126 13881	470PF 5% 50V
2779	4822 126 13881	470PF 5% 50V
2780	4822 126 13881	470PF 5% 50V
2781	4822 126 13881	470PF 5% 50V
2782	4822 126 13881	470PF 5% 50V
2783	4822 126 13881	470PF 5% 50V
2785	4822 122 33753	150PF 5%NP0 50V
2786	4822 124 11947	10UF 20% 16V
2787	4822 122 33753	150PF 5%NP0 50V
2788	4822 124 11947	10UF 20% 16V
2789	5322 126 11578	1NF 10% X7R 50V 0603
2790	5322 126 11578	1NF 10% X7R 50V 0603

RESISTORS

3604	4822 051 30102	1K00 5% 0,062W
3605	4822 051 30102	1K00 5% 0,062W
3610	4822 051 30472	4K70 5% 0,062W
3611	4822 051 30008	0R00 JUMPER
3613	4822 051 30339	33R00 5% 0,062W

8. Spare parts list DVD724/781

3614	4822 051 30333	33K00	5% 0,062W
3615	4822 051 30339	33R00	5% 0,062W
3621	4822 051 30103	10K00	5% 0,062W
3622	4822 051 30332	3K30	5% 0,062W
3623	4822 051 30183	18K00	5% 0,062W
3627	4822 051 30008	0R00 JUMPER	
3629	4822 051 30103	10K00	5% 0,062W
3630	4822 051 30683	68K00	5% 0,062W
3633	4822 051 30008	0R00 JUMPER	
3634	4822 051 30008	0R00 JUMPER	
3635	4822 051 30339	33R00	5% 0,062W
3641	4822 051 30479	47R00	5% 0,062W
3642	4822 051 30479	47R00	5% 0,062W
3643	4822 051 30472	4K70	5% 0,062W
3644	4822 051 30472	4K70	5% 0,062W
3645	4822 051 30479	47R00	5% 0,062W
3646	4822 051 30479	47R00	5% 0,062W
3647	4822 051 30479	47R00	5% 0,062W
3648	4822 051 30479	47R00	5% 0,062W
3649	4822 051 30151	150R00	5% 0,062W
3650	4822 051 30151	150R00	5% 0,062W
3651	4822 051 30479	47R00	5% 0,062W
3652	4822 051 30339	33R00	5% 0,062W
3653	4822 051 30339	33R00	5% 0,062W
3654	4822 051 30339	33R00	5% 0,062W
3655	4822 051 30339	33R00	5% 0,062W
3656	4822 051 30339	33R00	5% 0,062W
3657	5322 117 13062	390R 1% 0.063W 0603 RC22H	
3658	4822 051 30339	33R00	5% 0,062W
3659	4822 051 30339	33R00	5% 0,062W
3660	4822 051 30681	680R00	5% 0,062W
3661	4822 051 30339	33R00	5% 0,062W
3662	4822 051 30339	33R00	5% 0,062W
3663	4822 051 30339	33R00	5% 0,062W
3664	4822 051 30339	33R00	5% 0,062W
3665	4822 051 30339	33R00	5% 0,062W
3666	4822 051 30339	33R00	5% 0,062W
3667	4822 051 30339	33R00	5% 0,062W
3668	4822 051 30339	33R00	5% 0,062W
3669	4822 051 30339	33R00	5% 0,062W
3670	4822 051 30339	33R00	5% 0,062W
3671	4822 051 30339	33R00	5% 0,062W
3672	4822 051 30339	33R00	5% 0,062W
3675	4822 117 13632	100K 1% 0603 0.62W	
3676	4822 051 30008	0R00 JUMPER	
3678	4822 051 30008	0R00 JUMPER	
3679	4822 051 30339	33R00	5% 0,062W
3680	4822 051 30339	33R00	5% 0,062W
3687	4822 051 30109	10R00	5% 0,062W
3690	4822 051 30008	0R00 JUMPER	
3703	4822 051 30332	3K30	5% 0,062W
3706	4822 051 30183	18K00	5% 0,062W
3720	4822 051 30561	560R00	5% 0,062W
3723	4822 117 13632	100K 1% 0603 0.62W	
3726	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3729	4822 051 30561	560R00	5% 0,062W
3732	4822 117 13632	100K 1% 0603 0.62W	
3735	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3739	3198 021 31060	RST SM 0603 10M PM5COL R	
3741	4822 117 12925	47K 1% 0.063W 0603	
3742	4822 051 30331	330R00	5% 0,062W
3743	4822 051 30102	1K00	5% 0,062W
3744	4822 051 30102	1K00	5% 0,062W
3746	4822 117 12891	220K 1% ERJ3E	
3747	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3748	5322 117 13053	6K8 1% 0.063W 0603 RC22H	
3749	4822 051 30331	330R00	5% 0,062W
3750	2322 702 60919	RST SM 0603 RC21 91R PM5 R	
3751	4822 051 30222	2K20	5% 0,062W
3752	4822 051 30102	1K00	5% 0,062W
3753	4822 051 30102	1K00	5% 0,062W
3754	4822 051 30103	10K00	5% 0,062W
3755	4822 117 12891	220K 1% ERJ3E	
3756	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3757	4822 051 30689	68R 5% 0,063W 0603 RC21 RST SM	
3762	4822 051 30008	0R00 JUMPER	
3763	4822 051 30109	10R00	5% 0,062W
3764	4822 051 30472	4K70	5% 0,062W
3765	4822 051 30105	1M00	5% 0,062W
3766	4822 117 13498	2R2 5% 0,62W 0603	
3770	4822 051 30008	0R00 JUMPER	
3771	4822 051 30008	0R00 JUMPER	
3772	4822 051 30101	100R00	5% 0,062W
3773	4822 051 30101	100R00	5% 0,062W
3774	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3775	5322 117 13049	470R 1% 0.063W 0603 RC22H	
3776	4822 051 30101	100R00	5% 0,062W
3780	4822 051 30103	10K00	5% 0,062W
3781	4822 051 30339	33R00	5% 0,062W
3782	4822 051 30339	33R00	5% 0,062W
3792	4822 051 30339	33R00	5% 0,062W
3800	4822 051 30472	4K70	5% 0,062W
3804	4822 051 30472	4K70	5% 0,062W
3806	4822 051 30271	270R00	5% 0,062W
3808	4822 051 30008	0R00 JUMPER	
3810	2120 108 94042	RST NETW SM RAC16 4X22R PM5 R	
3811	2120 108 94042	RST NETW SM RAC16 4X22R PM5 R	
3812	2120 108 94042	RST NETW SM RAC16 4X22R PM5 R	
3813	2120 108 94042	RST NETW SM RAC16 4X22R PM5 R	
3814	4822 051 30479	47R00	5% 0,062W
3815	4822 051 30759	75R00	5% 0,062W
3816	4822 051 30759	75R00	5% 0,062W
3817	4822 051 30759	75R00	5% 0,062W
3818	4822 051 30759	75R00	5% 0,062W
3820	4822 051 30008	0R00 JUMPER	
3821	4822 051 30339	33R00	5% 0,062W
3824	4822 051 30339	33R00	5% 0,062W
3832	4822 051 30008	0R00 JUMPER	
3834	4822 051 30008	0R00 JUMPER	
3836	4822 051 30008	0R00 JUMPER	
3837	4822 051 30008	0R00 JUMPER	
3838	4822 051 30008	0R00 JUMPER	
3839	4822 051 30008	0R00 JUMPER	
3840	4822 051 30008	0R00 JUMPER	
3841	4822 051 30008	0R00 JUMPER	
3842	4822 051 30008	0R00 JUMPER	
3843	4822 051 30008	0R00 JUMPER	
3844	4822 051 30008	0R00 JUMPER	
3855	4822 051 30109	10R00	5% 0,062W
3857	4822 051 30479	47R00	5% 0,062W
3859	4822 051 30102	1K00	5% 0,062W
3860	4822 051 30472	4K70	5% 0,062W

COILS & CRYSTAL QUARTZ

5601	8241 010 40420	LEADED FERRITE BEADS
5602	4822 156 21721	
5605	4822 156 21721	
5607	4822 156 21721	
5608	4822 156 21721	
5609	8241 010 40420	LEADED FERRITE BEADS
5610	8241 010 40420	LEADED FERRITE BEADS
5612	8241 010 40420	LEADED FERRITE BEADS

8. Spare parts list DVD724/781

5613	8241 010 40420	LEADED FERRITE BEADS
5614	8241 010 40420	LEADED FERRITE BEADS
5615	8241 010 40420	LEADED FERRITE BEADS
5616	8241 010 40420	LEADED FERRITE BEADS
5617	8241 010 40420	LEADED FERRITE BEADS
5707	3141 018 80600	CRYSTAL QUARTZ 27M FUNDAMENTAL

DIODE

6603	4822 130 30621	1N4148
6604	4822 130 30621	1N4148
6605	4822 130 30621	1N4148
6612	4822 130 30621	1N4148
6613	4822 130 30621	1N4148
6614	4822 130 30621	1N4148
6615	4822 130 30621	1N4148
6616	4822 130 30621	1N4148
6617	4822 130 30621	1N4148
6620	4822 130 30621	1N4148
6621	4822 130 30621	1N4148
6622	4822 130 30621	1N4148
6623	4822 130 30621	1N4148
6630	5322 130 31938	BYV27-200

TRANSISTOR & IC

7601	3141 018 51430	IC SM ES6028
7603	5322 209 11517	PC74HCU04T
7607	3141 018 51120	IC SM V6300
7621	8241 010 45120	IC SMD NJM4560
7624	5322 209 11517	PC74HCU04T
7625	3141 017 40580	IC M29W800AT PROG DVD DVD724/781
7626	3141 018 51280	IC DIG MOS STANDARD LOGIC
7628	4822 130 10845	GP1F32T
7700	3141 018 51050	IC SM CS4340
7702	3141 018 51290	IC ANA VOLT./CURR. REGULATOR
7723	4822 130 42804	BC817-25
7726	4822 130 42804	BC817-25
7730	4822 130 60373	BC856B
7731	5322 130 60159	BC846B
7732	4822 130 60373	BC856B
7733	4822 130 60373	BC856B

FRONT BOARD 3141 018 02650

MISCELLANEOUS

1400	3141 010 50230	VFD DS 20-0704NA (ZEC)
1401	4822 265 30735	5 PINS
1403	4822 265 30735	5 PINS
1405	2422 025 04849	CON BMT 2P
1411	4822 276 13114	SWITCH, PUSH BUTTON
1412	4822 276 13114	SWITCH, PUSH BUTTON
1413	4822 276 13114	SWITCH, PUSH BUTTON
1414	4822 276 13114	SWITCH, PUSH BUTTON
1415	4822 276 13114	SWITCH, PUSH BUTTON
1416	4822 276 13114	SWITCH, PUSH BUTTON
1418	2422 128 02939	SWI PUSH 2P 100MA 30V SPEC12 B
8402	3141 010 21070	CWAS 05PH/05OP 180 26S
8404	3141 010 21230	CWAS 05XH/05OP 240 26S
8405	3141 010 21260	CWAS 02XH/02OP 190 26S
8406	3141 010 20250	CWAS 01 SPA/01 OP 110 BK 24F TO

CAPACITORS

2401	4822 126 12339	2,2NF10% Y5R
2402	2020 561 90365	CER2 TUB Y5V 50V 100N P8020 A
2403	4822 124 23624	47UF20% 16V
2404	2020 561 90365	CER2 TUB Y5V 50V 100N P8020 A
2405	2020 561 90365	CER2 TUB Y5V 50V 100N P8020 A
2406	4822 124 23624	47UF20% 16V
2407	2020 561 90365	CER2 TUB Y5V 50V 100N P8020 A

RESISTORS

3401	4822 116 52291	56K 5% 0,5W
3402	4822 050 21003	10K00 1% 0,6W
3403	4822 050 21003	10K00 1% 0,6W
3404	4822 050 21003	10K00 1% 0,6W
3405	4822 050 21002	1K00 1% 0,6W
3406	4822 050 21003	10K00 1% 0,6W
3407	4822 116 52195	47E 5% 0,5W
3409	4822 116 52283	4K7 5% 0,5W
3410	4822 116 52283	4K7 5% 0,5W
3411	4822 116 52283	4K7 5% 0,5W
3412	4822 116 83884	47K 5% 0,5W
3413	4822 116 52219	330E 5% 0,5W
3414	4822 052 10478	4R70 5% 0,33W
3415	4822 116 52175	100E 5% 0,5W
3416	4822 116 52175	100E 5% 0,5W
3417	4822 116 52175	100E 5% 0,5W
3418	4822 116 52176	10E 5% 0,5W

DIODES

6400	4822 130 30621	1N4148
6401	4822 130 30621	1N4148
6402	4822 130 31253	BZX79-C2V4
6403	4822 130 34398	BZX79-B24

TRANSISTORS & INTEGRATED CIRCUITS

7400	8241 010 40440	IC PT6312 QFP44
7401	3141 010 50200	OPT IR RECEIVER 36KHZ HEG836

DVD Video Player
Owner's Manual

DVD724

Let's make things better.

PHILIPS

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English

Español

Português

(BR) BRASIL

Garantia . . . . . Página **70**

(MEX) MÉXICO NOM-135-NYCE

Garantia . . . . . Página **71**

México NOM-135-NYCE

Es necesario que lea cuidadosamente su instructivo de manejo.

REPRODUCTOR DE DISCO DE VIDEO DIGITAL **DVD736K/781**

110-240 V ~ 50-60 Hz 20W

IMPORTADOR: **PHILIPS MEXICANA, S.A. de C.V.**
Norte 45, # 669, Col. Industrial Vallejo
C.P. 02300 México D.F. , Tel. 728 42 00

EXPORTADOR **PHILIPS CONSUMER ELECTRONICS CO.**
PAIS DE ORIGEN: CHINA
RFC: PME620620E84

Nº de Serie: _____

LEA CUIDADOSAMENTE ESTE INSTRUCTIVO ANTES DE USAR SU APARATO.

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General Information

English

Since it is usual for DVD movies to be released at different times in different regions of the world, all players have region codes and discs can have an optional region code. If you load a disc of a different region code to your player, you will see the region code notice on the screen. The disc will not playback, and should be unloaded.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Laser safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

LASER	
Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD)
	780 nm (VCD/CD)
Output Power	7 mW (DVD)
	10 mW (VCD/CD)
Beam divergence	60 degree

CAUTION
(WARNING LOCATION: ON THE BACKPLATE OF SET)

NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.

CAUTION
VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM

For Customer Use:

Read carefully the information located at the rear panel of your DVD VIDEO player and enter below the Serial No. Retain this information for future reference.

Model No. DVD VIDEO
Serial No. _____

Important Note:
Due to the numerous versions of new CD-Audio copy protection or enhanced CD-Audio protection recently available on certain discs, Philips is unable to guarantee that this DVD player is fully compatible with such new discs. Should you have difficulty playing any such CD-Audio discs, kindly refer them to your CD-Audio disc retailer.

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Introduction

English

Thank you for purchasing this Philips DVD player. This Owner's Manual explains the basic operation of this DVD player.

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your DVD player consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Supplied accessories

– DVD-Video player
– Remote control with Batteries
– Audio cable
– Video cable
– Owner's Manual

Safety Information

- Before operating the DVD player, check that the operating voltage indicated on the typeplate is identical with the voltage of your local power supply. If not, please consult your dealer.
- Place the DVD player on a flat, hard and stable surface.
- There must be sufficient room in front of the player for the drawer to be opened.
- In cabinet, allow about 2.5cm (1 inch) of free space all around the player for adequate ventilation.
- Do not expose your player to extreme of temperature or humidity.
- If the DVD player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the DVD player. Should this occur, the DVD player would not operate normally. Leave the power on for about one hour with no disc in the DVD player until normal playback is possible.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- When the DVD player is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.

Symbols Used in this Booklet

The below symbols appear in some headings and notes with the following meanings:

DVD	– Description refers to playback of DVD-video discs
VCD	– Description refers to playback of Video CDs
CD	– Description refers to playback of Audio CDs
SVCD	– Description refers to playback of Super VCDs

Helpful Hints!

- ***Some DVD video discs require specific or allow only limited functions during playback.***

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Front and Rear Panels

POWER ON/OFF
– switches the player On or Off

Progressive Scan
– Switchs to progressive scan or interlaced scan

Disc tray

DISPLAY
– shows the current status of the player

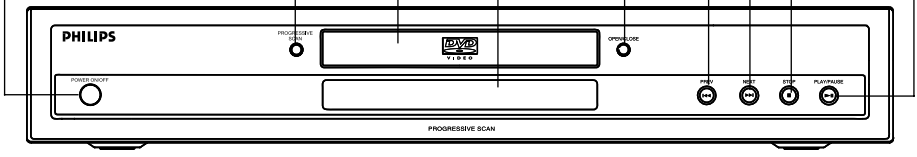
►II PLAY/PAUSE
– starts/interrupts playback

■ STOP
– stops playback

►►| NEXT
– goes to next chapter or track

|◄◄ PREV
– goes to previous chapter or track

▲ OPEN/CLOSE
– opens/closes the disc tray



AC Cord
– connect to AC power

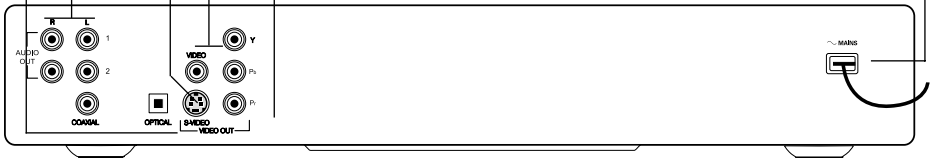
Optical & Coaxial output
– connect to a receiver with optical & coaxial inputs

Video out (Y PB PR)
– connect to a TV with component video inputs

AUDIO OUT (Left/Right)
– connect to AUDIO inputs of an amplifier, receiver or stereo system

Video out (CVBS)
– connect to a TV with CVBS inputs

Video out (S-Video)
– connect to a TV with S-Video inputs

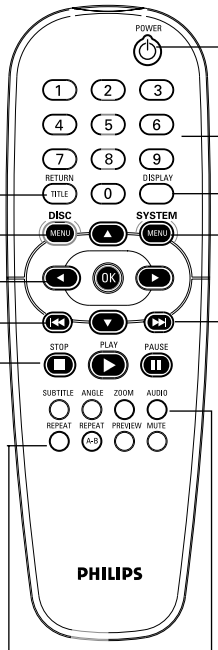


Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Functional Overview

English

Remote Control



RETURN / TITLE
– go back to previous menu / show title menu

DISC MENU
– access menu of a DVD disc /switch PBC on/off for VCD disc

◄ ► ▲ ▼
– select an item in the menu/ fast forward/backward, slow forward/backward

OK
– acknowledge menu selection

|◄◄
– go to a previous chapter or track

STOP (■)
– stops playback

PLAY (►)
– starts playback

PAUSE (II)
– pause playback temporarily / frame-by-frame playback

REPEAT
– repeat chapter, track, title, disc

REPEAT (A-B)
– repeat a specific segment

PREVIEW
– Preview the content of a track or whole disc

MUTE
– Disable or enable sound output

POWER ⏻
– switches DVD ON or to standby-on mode

0-9 numerical key pad
– select numbered items in a menu

DISPLAY
– display information on TV screen during playback

SYSTEM MENU
– access or remove player's system menu

►►|
– go to next chapter or track

SUBTITLE
– subtitle language selector /switch off subtitle

ANGLE
– select DVD camera angle

ZOOM
– enlarge video image

AUDIO
– audio language selector

Note:
Press digit "1" for about 2 seconds to OPEN or CLOSE disc tray.

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English

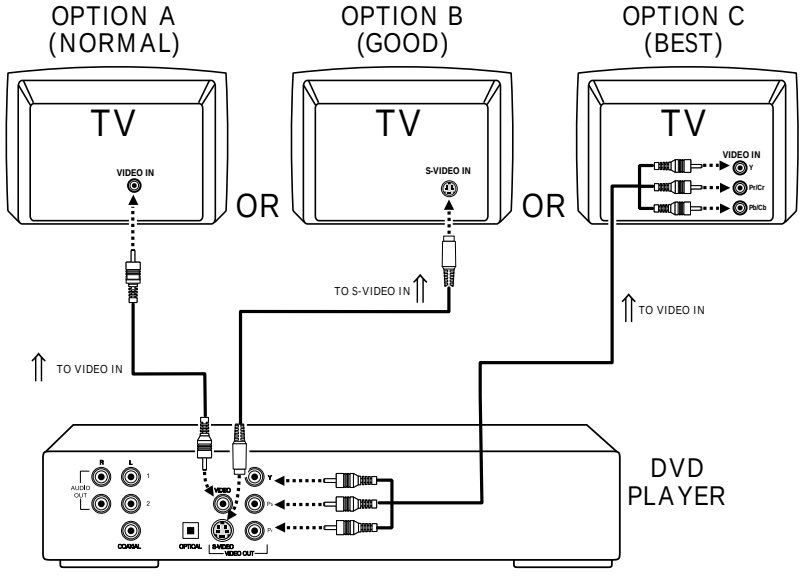
Basic Connections

- Please refer to the instruction books of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

- Make one of the following connections, depending on the capabilities of your existing equipment.

  The following guidelines are options for the best picture and sound quality available on your DVD player.

Video Connections



Connecting to a TV

If your TV has a CVBS Video input connector,

- Connect the CVBS VIDEO OUT on the DVD player to the CVBS VIDEO IN *(cable supplied)*.

If your TV has a S-Video input connector,

- Connect the S-Video OUT on the DVD player to the S-Video IN (not supplied).

If your TV has a Component video (Y/PB/PR)input connector,

- Connect the Y/PB/PR VIDEO OUT on the DVD player to the corresponding connector on the TV using the component video cable (not supplied).

Caution: Component video and S-video can not work at the same time, so you have to set one of them to be active by the such way as shown on the chapter [Video output].

Warning!
– Never make or change connections with the power switched on.
– Connect the DVD player directly to your TV, instead of eg. a VCR, to avoid distortion because DVD video discs are copy protected.
– Do not connect the DVD player AUDIO OUT to PHONO IN of your player.

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Preparation

Sound

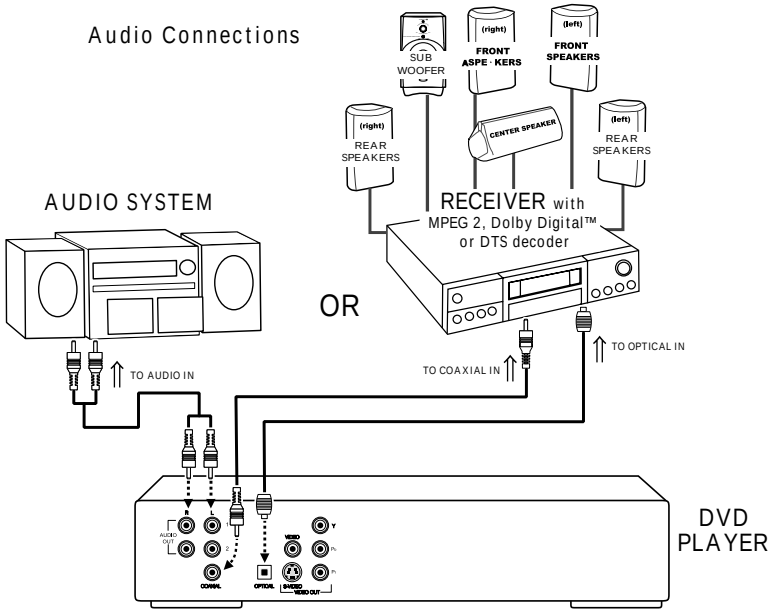
1 Digital audio connections provide the clearest sound. Connect one of the DVD player's DIGITAL AUDIO OUT (COAXIAL or OPTICAL) to your amplifier or receiver.

2 If digital connections are not possible, connect the DVD player's red and white AUDIO OUT to your amplifier, receiver, stereo or TV.

Connecting to a Audio System

1 You can also listen to the sound of audio CDs and DVD video discs by connecting to an optional stereo systems.

2 Connect the Left and Right AUDIO OUT on the DVD player to the Left and Right AUDIO IN on the stereo systems.



Connecting to Optional Equipment

- A digital component with a built-in MPEG 2, Dolby Digital™ or DTS decoder allows you to enjoy the surround sound while producing the effect of being in a movie theater or a concert hall.

If your receiver has a Dolby Digital™, MPEG 2 or DTS decoder, Connect to A/V receiver with digital coaxial or optical cable

- Connect the DIGITAL COAXIAL AUDIO OUT of the DVD player to the corresponding input on the receiver using the normal audio or video cable supplied.

Notes:

– If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.

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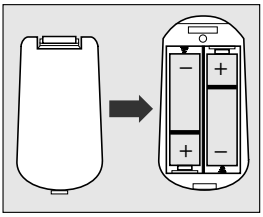
Inserting batteries into the Remote Control

1 Open the battery cover.
2 Insert batteries with the correct polarity as indicated by the + and − symbols inside the battery compartment.
3 Close the cover.



CAUTION!
– Remove batteries if they are exhausted or not to be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly and kept away from children.

Using the Remote Control

- Direct the remote control at the remote sensor of the DVD player.
- Do not drop or give the remote control a shock.
- Do not leave the remote control near extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.

NTSC/PAL Conversion

This player is equipped with a NTSC/PAL conversion feature to convert the video output of the disc to match your TV system. The conversions supported are as below:

Disc		Output format		
Type	Format	Selected mode		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	PAL	NTSC
	PAL	NTSC	PAL	PAL
VCD	NTSC	NTSC	PAL	NTSC
	PAL	NTSC	PAL	PAL

Notes:
– AUTO can only be selected when using a TV that has both the NTSC and PAL systems.
– Slight picture distortions may occur due to this conversion. This is normal. Thus, the AUTO format is most suitable for the best picture quality.

Switching On

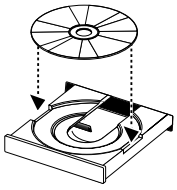
1 Switch on the TV and DVD player.
2 Set the TV to the correct Video IN channel. (eg. EXT1, EXT2, AV1, AV2, AUDIO/VIDEO, etc. Please refer to to your TV owner's manual for detail)
➜ The player display lights and the default screen appears on the TV.
3 If you are using an external equipment (eg. audio system or receiver), turn them on and select the appropriate input source that was used to connect to the DVD player output. Refer to the equipment owner's manual for detail.

Note:
If TV set has Progressive Scan video input, Please connect the component video cables between DVD player and TV set for best video performance, then
– Press PROGRESSIVE SCAN on the front panel to select progressive scan mode.
– The DVD player will reboot when you switch between progressive scan and interlaced scan by pressing PROGRESSIVE SCAN key on the front panel.

Operation

Basic Playback

1 Press POWER ON/OFF on the front panel.
2 Press OPEN/CLOSE on the front panel to open disc loading tray.
3 Place the chosen disc in the tray, with the label facing up.
4 Press OPEN/CLOSE again to close the tray.
➜ After recognizing this disc the player begin to playback automatically.



Notes:
– DVDs may have a region code. Your player will not play discs that have a region code different from the region code of your player.
– If 'Disc Lock' is set to LOCK and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized (see 'Disc Lock').

General operation

Video control during playback

STOP DVD VCD CD SVCD

1 You can resume the play from the point at which you stopped last time, if you just press the STOP key once. It will start from the beginning if you press the STOP key twice to stop playback.

PAUSE/STEP DVD VCD CD SVCD

1 To get a still picture, press PAUSE key during playback.
2 To step forward to the next frame picture, press PAUSE key again.
3 To resume normal playback, press PLAY.

SEARCH DVD VCD CD SVCD

1 To search the contents in fast speed, press the ▶ *or* ◀ for fast forward/backward searching.
2 Press the ◀ *or* ▶ again to increase the speed for searching.
3 Press PLAY to return to the normal playback.

Slow Motion

DVD

1 To get slow motion effect during playback, press ▲ or ▼.
2 Press ▲ or ▼ again, you can get different playback forward/backward speeds.
3 Press PLAY to return to the normal play back.

VCD CD SVCD

1 To get slow motion effect during playback, press ▲.
2 Press ▲ again, you can get different playback forward speeds.
3 Press the PLAY key to return to the normal play back.

NOTE:
- The SLOW BACKWARD function is not available for the Super VCD/VCD/CD disc.

Audio control during playback

MUTE DVD VCD CD SVCD

1 Press the MUTE key to disable the sound output.
2 Press the MUTE key again to remove the mute.

SURROUND SOUND

DVD VCD CD SVCD

The DVD player can reproduce virtual surround sound effect.

1 Press the Display key on the remote control.
2 Press ◀ ▶ to highlight option 3D
3 Press ▲ ▼ to switch it on or off.

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Audio channel selection

VCD CD SVCD

1 SVCD has two stereo audio channels which are used for playing karaoke or the audio language selection. (for instance, you can choose one channel for only the music background of the song while you play the karaoke.)

2 Press the AUDIO key on the remote control to select the audio channels you want.

3 VCD has only one stereo audio channel, you can select mono left audio channel or mono right audio channel by pressing the AUDIO key on the remote control.

Repeat

DVD

Repeat chapter/title/disc

- To repeat the current chapter, press REPEAT.
- To repeat the current title, press REPEAT a second time.
- To exit Repeat mode, press REPEAT again.

VCD CD

Repeat track/disc

At the state of PBC OFF,

- To repeat the current track, press REPEAT.
- To repeat the entire disc, press REPEAT a second time.
- To exit Repeat mode, press REPEAT again.

Repeat A-B DVD VCD CD

DVD-Video Discs: repeat a sequence in a title

Video and Audio CDs: repeat a sequence in a track

1 Press REPEAT A-B at your chosen starting point.

2 Press REPEAT A-B again at your chosen end point.
➜ The repeat sequence begins.

3 To exit the sequence, press REPEAT A-B.

5 Disc Resume

DVD SVCD VCD CD

This player can resume the playback of last 5 discs, which should be unload at stop mode.

1 Load one disc, which is one of last 5 discs.

2 Press PLAY when DVD player is recognizing the disc. if the information of this disc has been stored in the memory of DVD player, it will be played back from the point you stopped last time.

OSD (On-Screen Display)

DVD VCD SVCD

This function will provide some information about your playing disc on the screen.

- Press DISPLAY key on the remote control.

Title Selection

1 Press ◄ ► to highlight option Title number.

2 Press ▲ ▼ to change the title number.
➜ DVD player will playback selected title.

Chapter Selection

1 Press ◄ ► to highlight option chapter number.

2 Press ▲ ▼ to change the chapter number.
➜ DVD player will playback selected chapter.

Time Search

- Press ◄ ► to highlight time display area.
  For DVD discs:
  ➜ CC means the time has been played back of current chapter. CR means the time is remainder of current chapter.TC means the time has been played back of current titile.TR means the time is remainder of current title.
  For Super VCD or VCD disc
  ➜ DC means the time has been played back of the disc. DR means the time is remainder of the disc.TC means the time has been played back of current track.TR means the time is remainder of current track.
- Press the ◄► keys to highlight the item TIME and you can play from any point of the disc.
  ➜ Enter hours, minutes and seconds from left to right in the time edit box using remote control numerical key pad.(e.g. 0:34:27)
  ➜ Press the OK key to confirm it.

Operation

Zoom DVD VCD SVCD

The Zoom function allows you to enlarge the video image.

1 Press the ZOOM key to activate the function.
➜ Use the ▲▼◄► key to view the rest part of the zoomed picture.
➜ Playback will continue.

2 Press the ZOOM key again to return to the original size.

NOTE: -This function is NOT available for PAL DVD discs or some DVD discs.
-This function is invalid in the Progressive Scan video output mode.

Special DVD Features

Playing a title DVD

A DVD disc may have one or more titles.This depends on the content (a movie, video clips, a drama series, etc) on the disc.

- After you load a disc, information about the content shows on the screen waiting for your selection. Likewise, you can press the TITLE key on the remote control to turn back to the title menu during playback.
  ➜ Press the appropriate numerical key or ▲▼◄► keys on the remote control to highlight your selection.
  ➜ Press the OK key to confirm it.

Playing a chapter DVD

While you have selected a title, it may include one or more chapters.

- Any time you want to watch another chapter during playback, press DISC MENU key to turn back to the chapter menu(If disc has chapter menu).
  ➜ Press the appropriate numerical key or ▲▼◄► keys on the remote control to highlight your selection.
  ➜ Press the OK key to confirm it.
  ➜ After a chapter has been selected, you also can press the |◄◄ *or* ►►| key to make a change.

Camera Angle DVD

Some discs contain scenes which have been shot simultaneously from various angles.
This DVD player allows you to select the desired camera angle.

- pressing the ANGLE key on your remote control.
  NOTE: The function is available for the DVD discs which have recorded several angles movie.

Changing the audio language DVD

- Press AUDIO repeatedly to select the different languages.
  NOTE: The function is activated, only if the DVD is recorded with multi-languages audio tracks.

Subtitles DVD SVCD

- Press SUBTITLE repeatedly to select the different subtitles.
- Press SUBTITLE for about 2 seconds to switch subtitle on or off.
  NOTE: The function is activated, only if the DVD or SuperVCD is recorded with multi-subtitles.

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English

Special VCD & SVCD Features

Playback Control (PBC)

PBC function can make you enter the index menu which is used to select a track after loading the SVCD or VCD disc.

If you want to activate the function,

1 press the DISC MENU key on the remote control to set the PBC On.

➜ Pay attention to the hint on the screen.

2 Use the ⏮ *or* ⏭ key to select the page you like.

➜ If the items of the index menus are numbered, press the appropriate numerical key on the remote control.

➜ press the OK key to confirm.

3 Press the RETURN key to enter the index menu during the play back.

NOTE:

– The content of the index menu depends on the disc. Please refer to the disc's instruction for detail.

– If the disc doesn't include the PBC information, this function will have no effect.

If you want to skip the index menu and playback directly from the beginning,

1 press the DSIC MENU key on the remote control to switch off the function.

➜ For the karaoke discs, even if PBC function is off, you still can use the ⏮ *or* ⏭ key to select the track you like.

Preview function SVCD VCD

At STOP mode, press the PREVIEW key to enter previewing menu.

1 Disc introduction

Select this function, DVD player will play back every track several seconds with full screen, that makes you understand the content of disc.

- Press the numerical key 1.
- Press OK key to confirm it.
- Press STOP key to quit previewing.

2 Disc preview

This function will minify the picture of one track enough to display every nine of these tracks on the full screen which will help you to preview a disc.

- Press the numerical key 2.
- Press OK key to confirm it.
- Select the other tracks beyond this page by pressing the ⏮ or ⏭ key.
- Press the numerical keys to choose the desired track.
- Press the OK key to confirm it.

3 Track preview

This function is used to divided a single track into nine parts and display them on the full screen which will help you to preview the selected track.

- Press the numerical key 3.
- Press the OK key to confirm it.
- Preview other tracks, press the ⏮ or ⏭ key.
- Press numerical key to choose the start point.
- Press the OK key to playback the start point.

4 Quit preview function

- Press the numberical key 4.
- Press the OK key to exit.

Picture CD & MP3 CD Playback

English

Function introduction

This player can playback JPEG format pictures and MP3 files as well as being specially compatible with Kodak Photo CD.

Picture CD containing JPEG format pictures with file extentions of 'JPG'. The CD can be burned on every computer, and pictures maybe from digital camera or scanner. If the customers prefer, they may make this CD become a Digital Album.

For playing this Digital Album (picture CD) conveniently, our DVD player can

- Auto playback of pictures on disc one at a time.
- Display a preferred picture.
- Zoom the picture.
- Rotate the picture.
- Flip the picture vertically or horizontally.
- Playback speed control.
- Album and track selection.
- Repeat (disc / album / track / picture).
- Nested directory levels supported to 8 levels.
- Maximum album numbers possible is 32.
- Maximum MP3 Tracks Programmable is 96.

Basic playback

1. Without any disc inserted and "NO DISC" is shown on set, press the SYSTEM MENU key to open the setup menu.
2. Press the ▲ ▼ key to highlight the PREFERENCES item.
3. Press OK to open the PREFERENCES menu.
4. Press the ▲ ▼ to highlight the SMART NAV menu.
5. Press the ▶ key to enter the menu.
6. Press the ▲ ▼ key to highlight the NO MENU or WITH MENU item.
   ➜ NO MENU: playback all images in sequence automatically, and MP3 musics will be played prior to pictures.
   ➜ WITH MENU:playback images in the selected folder.
7. Press the OK key to confirm your selection.

Special functions during playback:

Auto playback

After you open one picture, the player can playback each file in sequence automatically.

Selection playback

1. Press the numerical key to select your favourite file directly.
2. In the JPEG playback menu, press the ◀ ▶ ▲ ▼ key to select the folder you want and press the OK to open it.
3. Press the ◀ ▶ ▲ ▼ key to highlight your favourite file and press the OK key to confirm.

Preview function

1. Press the PREVIEW key at the STOP mode. You will see nine pieces of minified pictures on the screen.
2. Press the ▶▶| *or* |◀◀ key to display the next or the previous nine-picture-preview.
3. Press the ◀ ▶ ▲ ▼ key to highlight one of them and press the OK to display.

Playback with multi-angles

When displaying one picture on TV screen

- Press the ▲ ▼ ◀ key to get different effects.
  ▲ key: Flip the picture vertically.
  ▼ key: Flip the picture horizontally.
  ◀ key: rotate the picture anti-clockwise.

Playback Speed Control

- Press the ▶ key to adjust the playback speed.

Zoom picture

- Press the ZOOM key to display the picture with different scales.
- Press the ◀ ▶ ▲ ▼ key to view the rest of the zoomed picture.

Note:
If you want to switch between MP3 musics and pictures during automatical playback, please press a valid number as shown on the TV screen after the DVD player indexed the MP3 musics and pictures found in the loaded disc.

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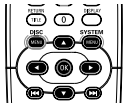
English

Basic operations



1 Press SYSTEM MENU in the STOP mode to enter the Setup Menu.
2 Press the OK key to open the next level submenu or confirm your selection.
3 Press the ◄► keys to enter the submenu or return to the previous menu.
4 Press the ▲▼ keys to highlight the desired menu.
5 Press SYSTEM MENU to quit the setup menu.
➜ When you quit the setup menu, the settings will be stored in the player's memory even if the player is switched to power off.

General setup menu

Some settings are needed in this menu. they are: DISC LOCK, PROGRAM, OSD LANGUAGE and SCREEN SAVER and VFD Dim.
Follow the steps below:

1 Press the SYSTEM MENU key to enter the setup menu.
2 Press the ▲▼ keys to choose the GENERAL SETUP menu.
3 Press the OK key to confirm selection.

Disc lock

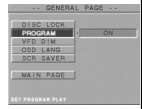
When the disc is locked, the player will store its typical code into the memory for the future identification. For the next playback, the DVD player will prompt to enter the password.

1 Press the ▲▼ keys to highlight the DISC LOCK item in the GENERAL SETUP menu.
2 Enter its submenu by pressing the ► key.
- LOCK: Lock the disc being played.
- UNLOCK: unlock the disc.
3 Press the ◄ key to return to the GENERAL SETUP menu.

NOTE:
1. When playback a locked disc, the DVD player will prompt to enter your password or 3308 (default) password.
2. To change the password , refer to the option PASSWORD in the PREFERENCES menu .

Program (not available for DVD discs)

1 To choose the PROGRAM item, press the ▲▼ keys.



2 Press the ► key to move the cursor to the field of the submenu to choose the item ON.
➜ ON: Enter the PROGRAM item.
3 Press OK to enter the program page.

Input your favorite track

1 Input valid track number by pressing the numerical keys.
2 Press the ◄►▲▼ keys to move the cursor to the next selected position.
3 Repeat the steps above to input another track number until the whole program is completed.

Exclude a track

1 Press the ◄►▲▼ keys to move the cursor to track you want to exclude.
2 Input an invalid track number to cancel this track.

Cancel all tracks

1 Press the ◄►▲▼ keys to move the cursor to the CLEAR button.
2 Press OK, all tracks will be cancelled.
3 Now you can input your favorite tracks again.

Playback tracks

When programing is completed,
1 Press the ◄►▲▼ keys to move the cursor to the PROG button.
2 Press OK.
➜ DVD player will playback the selected program under the programed sequence.

Stop the program playback

At the PROGRAM page, When programing is completed,
1 Press the ◄►▲▼ keys to move the cursor to the QUIT button.
2 Press the OK key to quit this menu.

Setup Menu

English

OSD language

There are three options available for information display on TV screen.

1 Press the ▲▼ keys to highlight OSD LANG in the GENERAL SETUP menu.

2 Enter its submenu by pressing the ▶ key.

3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.

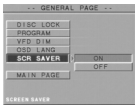
4 Press the OK key to confirm.

5 Press the ◀ key to return to the GENERAL SETUP menu.

Screen saver

This function is used to turn on or off the screen saver.

1 Press the ▲▼ keys to highlight SCR SAVER in the GENERAL SETUP menu.



2 Enter its submenu by pressing the ▶ key.

3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.

➜ ON: At STOP mode, if nothing is happened within 5~6 minutes, screen saver will turn on.

➜ OFF: Screen saver is disable.

4 Press OK to confirm.

5 Press the ◀ key to return to the GENERAL SETUP menu.

Speaker setup page

This menu contains setup options of your speaker system, such as DOWNMIX, D.R.C.(Dynamic Range Compression),

1 Press SYSTEM MENU.

2 Press the ▲▼ keys to highlight the SPEAKER SETUP item.

3 Press OK to confirm.

DOWNMIX mode

1 Press the ▲▼ keys to highlight the DOWNMIX item.

2 Enter its submenu by pressing the ▶ key.

3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.

- LT/RT

  ➜ This item will be used only if your DVD player is connected with Dolby Prologic decoder. Meanwhile, the DVD player can send the output of Dolby Prologic signals.

- STEREO

  ➜ This item will help to downmix the signal of Dolby Digital into stereo signals directly outputing from L/R port.

4 Press OK.

5 Press the ◀ key and return to the SPEAKER SETUP menu.

D.R.C. (Dynamic Range Compression)

DVD player will compress dynamic range of sound effect output, when you do not want to disturb your neighbours and your famliy in midnight.

1 Press the ▲▼ keys to highlight D.R.C.,

2 Enter its submenu by pressing the ▶ key.

3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.

➜ ON: Enable D.R.C.

➜ OFF: Disable D.R.C.

4 Press OK.

5 Press the ◀ key to return to the SPEAKER SETUP menu.

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English

SPDIF setup

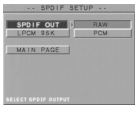
In this menu, you can set up digital audio format outputing from coaxial and optical terminals.

1 Press SYSTEM MENU to enter the SETUP menu.
2 Press the ▲▼ keys to choose the SPDIF SETUP menu.
3 Press OK.

NOTE:
SPDIF is the abbreviation of Sony Philips Digital Interface which is a protocol of digital data transfering.

SPDIF OUT setup

1 Press the ▲▼ keys to highlight the SPDIF OUT item.
2 Enter its submenu by pressing the ▶ key.
3 Press the ▲▼ keys to highlight the selected item.

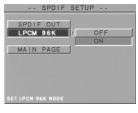


➜ RAW: Original digital signals output.
➜ PCM: Convert to PCM signals to output.
4 Press OK.
5 Press the ◀ key and return to the SPDIF SETUP menu.

LPCM 96K mode

In this menu, you can set up sampling rate to decode LPCM audio.

1 Press the ▲▼ keys to highlight the LPCM 96K item.
2 Enter its submenu by pressing the ▶ key.
3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.



➜ ON: Detect the loading disc for appropriate sampling rate.
➜ OFF: The decoding process is under the sampling rate of 48KHz.
4 Press OK.
5 Press the ◀ key to return to the SPDIF SETUP menu.

Video Out Setup

There are items included in VIDEO OUT PAGE menu as TV DISPLAY, VIDEO OUTPUT, TV TYPE, PICTURE SOURCE, PROGRESSIVE SCAN, BRIGHTNESS.

1 Press STOP twice.
2 Press SYSTEM MENU to enter its menu.
3 Highlight the SETUP VIDEO OUTPUT item by pressing the ▲▼ keys.
4 Press OK.

Video output

In this menu, you can setup the video output for high quality video performance.

1 Press the ▲▼ keys to highlight VIDEO OUTPUT in the VIDEO OUTPUT PAGE menu.
2 Press the ▶ key to highlight the item of the submenu.
3 Press the ▲▼ keys to choose an item.

➜ S-VIDEO: Video signals will send an output from the S-VIDEO on the rear panel of the DVD player.
➜ YPBPR: If your TV set is equiped with Y/PB/PR input, you can choose for high quality picture.
4 Press OK.
5 Press the ◀ key to return to the VIDEO OUTPUT PAGE menu.

NOTE: Any selection will not influence the signal output of composite video.

Setup Menu

English

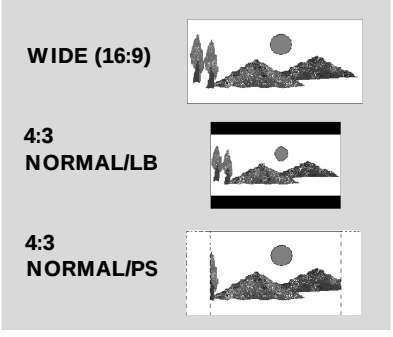
TV display

Select the aspect ratio of the TV to be connected.

16:9 ➜ when you connect a wide-screen TV to the DVD player.

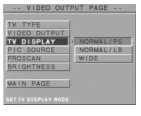
4:3 NORMAL/LB ➜ when you connect a normal TV to the DVD player. Displays a wide picture with bands displayed on the upper and lower portions of the TV screen.

4:3 NORMAL/PS ➜ when you connect a normal TV to the DVD player. Displays the wide picture on the whole TV screen with a portion automatically cut off.



Setup the item as follows,

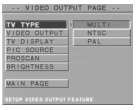
1. Press the ▲▼ keys to highlight the TV DISPLAY item in the VIDEO OUTPUT PAGE menu.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected item.
4. Press OK.
5. Press the ◀ key to return to the VIDEO OUTPUT PAGE menu.



TV type

Before viewing the DVD or VCD, ensure that the PAL or NTSC setting of the system matches your TV set.

1. Press the ▲▼ keys to highlight TV TYPE in the VIDEO OUTPUT PAGE menu.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the requisite item.
4. Press OK.
5. Press the ◀ key to return to the VIDEO OUTPUT PAGE menu.

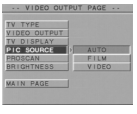


NOTE: Choosing NTSC item indicates that the player will output by NTSC system, Similarly, you can sacquire PAL system by choosing the PAL item. And the item MULTI means video output is depending on the format of DVD or VCD discs.

Picture Source

For some DVD discs, DVD player may not recognize properly if the disc type is progressive or not, you'd better to select the correct disc type manually for best video performance.

1. Press the ▲▼ keys to highlight the PIC SOURCE item in the VIDEO OUTPUT PAGE menu.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected item.
   - ➜ AUTO: playback the disc automatically.
   - ➜ FILM: the DVD disc is progressive
   - ➜ VIDEO: the DVD disc is interlaced
4. Press OK.
5. Press the ◀ key to return to the VIDEO OUTPUT PAGE menu.



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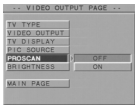
English

Progressive Scan

This menu indicates the video output status whether it is progressive scan or not.



1. Press the ▲▼ keys to highlight the PROSCAN item in the VIDEO OUTPUT PAGE menu.
2. Press OK.

To select the progressive scan mode to output video signals for best video performance, first, be sure you have connected the component video cables between DVD player and TV set.

- Press PROGRESSIVE SCAN on the front panel to select progressive scan mode or not.

Brightness

1. Press the ▲▼ keys to highlight BRIGHTNESS in the VIDEO OUTPUT PAGE menu.
2. Press the ▶ key to highlight the item of the submenu.
3. Press the ▲▼ keys to adjust the brightness level.
4. Press OK.
5. Press the ◀ key to return to the VIDEO OUTPUT PAGE menu.

Preferences setup

There are items included in PREFERENCES menu as AUDIO, SUBTITLE, DISC MENU, PARENTAL, PASSWORD, DEFAULT and SMART NAV.

1. Press the STOP key twice.
2. Press SYSTEM MENU to enter its menu.
3. Highlight the PREFERENCES item by pressing the ▲▼ keys.
4. Press OK to confirm your selection.

Audio language

DVD discs are available for multiple audio languages. Use this item to choose your preferred default audio language.

1. Press the ▲▼ keys to highlight the AUDIO item.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected item.
4. Press OK.
5. Press the ◀ key to return to the PREFERENCES menu.

NOTE:Your DVD disc may not include the audio language which you set in the SETUP menu. If so, the player will use other audio language instead.

Subtitle language

DVD discs are available for multi-subtitle language. This item is used to choose default subtitle language.

1. Press the ▲▼ keys to highlight the SUBTITLE item.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected item.
4. Press OK.
5. Press the ◀ key to return to the PREFERENCES menu.

NOTE:Your DVD disc may not include the subtitle which you set in the SETUP menu. If so, the player will use other audio language and subtitle instead.

Setup Menu

Disc menu language

DVD discs are available for multiple disc menu languages. This item is used to choose default disc menu language.

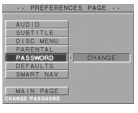
1. Press the ▲▼ keys to highlight the DISC MENU item.
2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected tem.
4. Press OK.
5. Press the ◀ key to return to the PREFERENCES menu.

NOTE: If your DVD disc doesn't include disc menu language you have set, the player will use other recorded language instead.

Password

This password is used for the parental control and disc lock. Enter your password when you are required by the DVD player.

1. Press the ▲▼ keys to highlight the PASSWORD item.



2. Enter its submenu by pressing the ▶ key.
3. Move the cursor by pressing the ▲▼ keys to highlight the selected item, then press OK.
4. Enter the current 4 digit code.
5. If successful, the player will prompt for a new one.
6. After that, enter the new password again to reconfirm.
7. Press the PLAY key to return to the PREFERENCES menu.

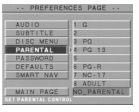
➜ The new 4 digit code will take effect.

NOTE:
1.You can change the setup of parental control and disc lock with a recognise password being entered.
2. If you forget the password, you can enter the default password 3308 and replace your password after logging on.

Parental Control DVD

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain 'Parental Control' information which applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternative, more suitable scenes are available on the disc. Ratings are country dependent. The 'Parental Control' feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.

- VCD, SVCD, CD has no level defination, so parental control function has no effect on those kinds of discs as well as most of illegal DVD discs.
- You can follow the steps below to setup the parental control:



1. Press the ▲▼ keys to highlight the PARENTAL item.
2. Move to its submenu by pressing the ▶ key.
3. Then use the ▲/▼ keys to highlight a rating from 1 to 8 for the disc inserted.
4. Press OK to confirm, then press the ◀ key to return to the PREFERENCES menu.

No Parental Control

Parental Control is not activated. The Disc will be played in full.

1. Select NO PARENTAL item.
2. Press OK.

Ratings 1 to 8:

The disc contains scenes not suitable for children. If you set a rating for the player, all scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative which has the same rating or lower is available on the disc. If no suitable alternative is found, playback will stop and the 4-digit code has to be entered.

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English

Default setup

If some problems occur during setting DVD, the item DEFAULT is used to reset all items to factory default and all your personal setting will be erased.

1. Press the ▲▼ keys to highlight the DEFAULT item.
2. Enter its menu by pressing the ▶ key.
3. Press OK.

NOTE:When this function is executed, all setups will be reset to factory defaults.

Smart Navigator

In this menu, it contains of the setting when you playback picture CD and MP3 CD.

1. Press the ▲ ▼ to highlight the SMART NAV menu.
2. Press ▶ to enter the menu.
3. Press ▲ ▼ to highlight the NO MENU or WITH MENU item.
   ➜ NO MENU: playback all images or MP3 musics in sequence automatically
   ➜ WITH MENU:playback images or MP3 musics in the selected folder.
4. Press the OK key to confirm your selection

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Specifications

English

PLAYBACK SYSTEM

DVD Video
Video CD & SVCD
CD
PICTURE CD
MP3-CD
CD-R, CD-RW

VIDEO PERFORMANCE

* CVBS	1Vpp --- 75Ω
* S-VIDEO	Y: 1.00Vpp --- 75Ω
	C: 0.30Vpp --- 75Ω
* Component video	Y: 1.00Vpp --- 75Ω
	PB: 0.7Vpp --- 75Ω
	PR: 0.7Vpp --- 75Ω

AUDIO FORMAT

Digital	Mpeg/ AC-3/ DTS	compressed Digital
	PCM	16, 20, 24 bits fs, 44.1, 48, 96 kHz
	MP3(ISO 9660)	24, 32, 56, 64, 96, 128, 256 kbps & variable bit rate fs, 16, 22.05, 24, 32, 44.1, 48 kHz

Analog Sound Stereo
Full decoding of Dolby Digital multichannel surrond sound

AUDIO PERFORMANCE

DA Converter	24bit	
Signal-Noise (1KHz)	90dB	
Dynamic range(1KHz)	>80dB	
DVD	fs 96 kHz	4Hz- 44kHz
	fs 48 kHz	4Hz- 22kHz
SVCD	fs 48 kHz	4Hz- 22 KHz
	fs 44.1kHz	4Hz- 20kHz
CD/VCD	fs 44.1kHz	4Hz- 20kHz

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

CONNECTIONS

Component Video Output	Cinch
S-Video Output	Mini DIN 4-pins
Video Output	Cinch
Audio Output	Cinch
Digital Output	1 coaxial / optical IEC958 for CDDA / LPCM/ MPEG1 IEC1937 for MPEG 2, Dolby Digital and DTS

CABINET

Dimensions (w x d x h)	435 x 286 x 75 mm
Weight	Approximately 3.8 Kg

Specifications subject to change without prior notice

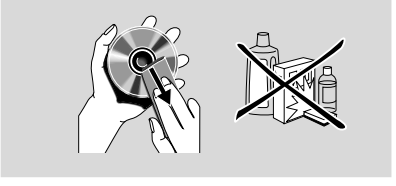
Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.



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WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or service center.

Problem	Solution
No power	– Check if the AC power cord is properly connected.
No picture	– Check if the TV is switched on. – Check the video connection.
Distorted picture	– The disc is badly scratched or dirty. – Sometimes a small amount of picture distortion may appear .This is not a malfunction.
Completely distorted picture or black/white picture with DVD or Video CD	– Make sure the NTSC/PAL setting at the DVD player matches the video signal of your television. (See NTSC/PAL Conversion)
No sound or distorted sound	– Adjust the volume. – Check that the speakers are connected correctly.
No audio at digital output	– Check the digital connections. – Check the settings menu to make sure the digital output is set to ALL or PCM. – Check if the audio format of the selected audio language matches your receiver capabilities.
Disc can't be played	– Ensure the disc label is facing up. – Check if the disc is defective by trying another disc.
No return to start-up screen when disc is removed	– Reset the unit by switching the player off, then on again.
The player does not respond to the remote control	– Aim the remote control directly at the sensor on the front of the player. – Reduce the distance to the player. – Replace the batteries in the remote control. – Insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work	– In order to completely reset the player, unplug the AC cord from the AC outlet.
Player does not respond to some operating commands during playback.	– Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD Video player cannot read CDs/DVDs	– Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Video player for repair.