

Techtronics Multimod Manual

General Information

Please ensure you keep this document, your sales order / invoice and all your packaging.

This manual is intended for the following models:

- Sony DVP NS-300, Sony DVP NS-400
- Sony DVP C670D

This document was last updated: 27 August 2001

This document is also available for download in the form of an Adobe Acrobat (PDF) file from our web site <http://www.techtronics.com>

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Multimod Installation

General Warning

If we have supplied your player, the upgrade has already been installed by our engineers and tested prior to dispatch. Please ignore this section.

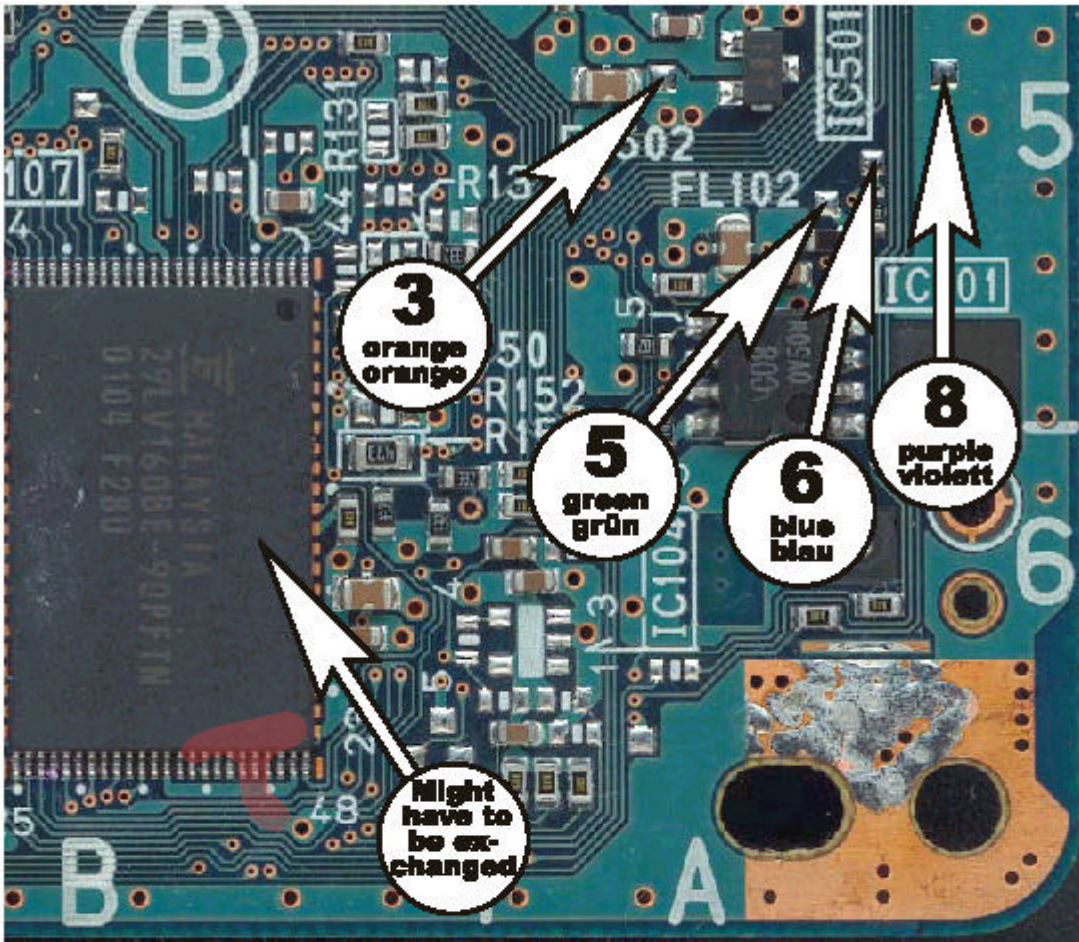
Please note that if you undertake to do this modification any warranty that may exist on your player is invalidated.

This modification is done entirely at your own risk. We do NOT accept any liability in the event of damage to your DVD-player in the process of installation of the chip or in the usage of the modification.

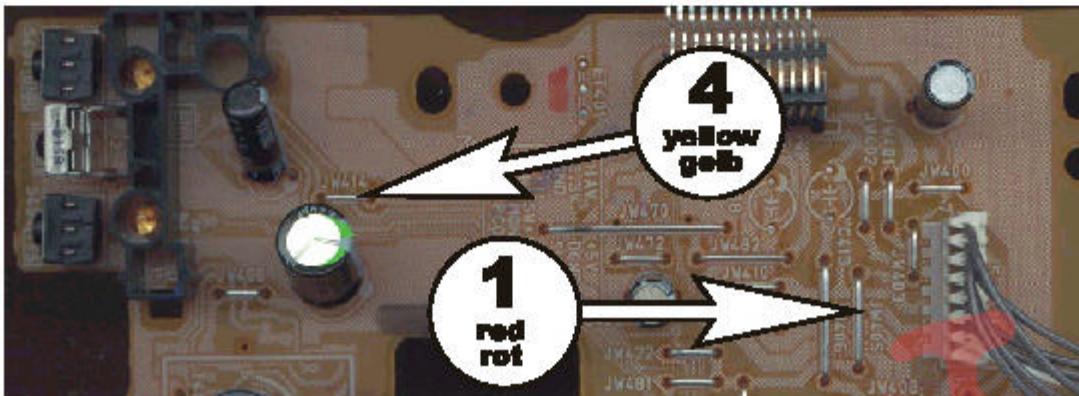
The Installation of the DVD MultiMod chip is not difficult if you are familiar with a solder iron and have soldering experience and the correct tools. If not, please do not try to modify the unit yourself, but instead let an experienced person perform the modification, or let us modify it for you. If you do damage your board, it can be a very expensive mistake. Please do not proceed unless you are confident that you are able to carry this out competently. Our engineers would rather hear from you with regards to a virgin board that needs upgraded rather than a damaged board that needs repair. If you would like us to do the upgrade for you, please contact the UK head office directly on 0870 0100 590

IC Pin #	Location
1	Base board, JW405
3	Main board, bottom side
4	Base board, JW414
5	Main board, bottom side
6	Main board, bottom side
8	Main board, bottom side

A 10k Ohm resistor should be installed between pin 3 and 5 of the microprocessor.



Mainboard 98 bottom side



Base board

Multimod User Instructions

Your DVD player is originally hard-coded for a specific geographical region. This means that it normally allows playback of software that is matched to your region only. There are some solutions that patch the player to "region 0", i.e. "region free" to allow playback of other region specific software - we do not recommend this as many new titles can detect this and refuse to play.

With our DVD MultiMod you have user selectable region code. You will be able to select and switch between the region codes on your player. You can choose between the region 1 to 6. You can switch between any of these modes easily. When a disc asks the player for the region the player will report the region code you entered, thus allowing you to play all the latest movies. Just pick the correct region code for the disc and your disc will play right away.

In order to play DVDs from other regions on your DVD player, the player has to be set to the correct region.

On your model:

Region selection is auto + manual.

You may leave the player in auto selection mode or select manual region selection.

The available commands are listed in the table below.

Region	Keys on Remote to press
Default Region of player #	[0] [ENTER]
Region 1 (USA/Canada)	[1] [ENTER] or [UP] [ENTER]
Region 2 (Europe/Japan)	[2] [ENTER] or [RIGHT] [ENTER]
Region 3 (Hongkong)	[3] [ENTER] or [DOWN] [ENTER]
Region 4 (Australia)	[4] [ENTER] or [LEFT] [ENTER]
Region 5 (Taiwan)	[5] [ENTER] or [TITLE] [ENTER]
Region 6 (China, Russia)	[6] [ENTER] or [DVMENU] [ENTER]
Region 7	[7] [ENTER] or [RETURN] [ENTER]
Region 8	[8] [ENTER] or [DISPLAY] [ENTER]
Automatic Region Selection #	[PROGRAM] [ENTER]
Manual Region selection	[SHUFFLE] [ENTER]
Vcr mode on (macrovision off)#	[NEXT >>] [ENTER]
Vcr mode off (macrovision on)	[PREV <<] [ENTER]
User Prohibitions on	[SCAN <] [ENTER]
User Prohibitions disable#	[SCAN >] [ENTER]

These are the default settings after installation and power cycling

The selected region code is visible in the Service Menu – Put your player in standby mode and press in series: [TITLE] [CLEAR] [POWERON] and [5]. Do not enter any of the other pages in the service menu

User prohibitions disable: The DVD can no longer prohibit you from using the fast-forward, chapter change or Audio/Subtitle/Angleswitch keys. You can no longer be forced to watch intros. Just press [TITLE] or [DVD MENU] and select Play.

Command entry procedure:

- Put player in standby.
- Press the keys on the remote for the command you wish. For instance to Turn User Prohibitions On, press [SCAN <] then [ENTER]
- Power machine up again.

It is important to realize that the command entry procedure must be completed after 1 command entry, ie Standby – Command – Power Up.

So for instance, if your player is currently in auto region selection mode and you want to select Region 4 manually, you need to change the player to manual region select mode first and then change region to 4.

Here is an example if you wanted to switch the player to manual region selection and select region 4.

- Put player in standby.
- Press [SHUFFLE] then [ENTER]
- Power machine up

Your player is now in manual region select mode.

- Put player in standby again
- Press [4] then [ENTER] (for Region 4)
- Power up machine again
- Play your Region 4 film.

All previous commands will be stored and executed, as long as your player is connected to mains. If you unplug it, the player will switch to its default settings.

User Prohibitions – Please remember that user prohibitions disabled does not mean you will not see the FBI logo at all, it just allows you to scan / FF through it. FBI Logos are present on Region 1 films only.

There are two forms of FBI Logo:

1. A Still Frame – This is a pre determined pause, which can vary on time scale from title to title that cannot be skipped through (Usually a black background). This is part of the DVD and cannot be skipped through.
2. A video stream – This is seen by the player as a mini chapter, and can be skipped through with the Techtronics multimod (Usually a green background) if you have user prohibitions disabled.

User prohibitions disabled also means that the DVD cannot prohibit you from using the fast forward, chapter change and Audio/Subtitle/Angleswitch commands.

Common pitfalls

Please be aware that manual region switching will leave the player in that region until you tell it otherwise (i.e. until you change to auto select). In manual region select mode you will have to select the region each time you put in a DVD of a different region.

On some models you will have to depress the relevant region button a couple of times in order for the modification to recognise the command

If you remove the player from the mains this will revert the player back to its default settings, you may need to readjust manual/auto/macrovision etc settings accordingly

Trouble-Shooting

How to connect your player up

We recommend using RGB if this is available on your TV and DVD player.

Scart to Scart is normally the easiest way to hook up.

For more information on hooking up your DVD player to your existing system, please check our web site.

PAL and NTSC issues

On your player:

A PAL DVD will output as PAL

A NTSC DVD will output as NTSC

If your TV does not do NTSC, you will have a black and white picture.

Some TVs will do NTSC on a specific AV input only, eg AV1 Scart.

You should check your TV with regards to this.

To record a NTSC signal on VCR, your VCR must be capable of recording NTSC.

If you require more details about PAL/NTSC please see our web site.

Macrovision

On your model, macrovision is automatically disabled. This will allow you to route your DVD player output via a VCR and also directly to projectors which have problems with macrovision.

A PAL VCR cannot cope with a NTSC signal either. If you intend to backup a NTSC DVD, you must use a NTSC VCR that can record NTSC or use a standards converter to convert NTSC to PAL50 first.

A VCR that can play NTSC tapes may not necessarily be able to record NTSC. VCRs marked NTSC playback will play NTSC and output PAL60. They cannot record NTSC or PAL60.

Technical Support

Telephone:

You may contact Techtronics HQ on 0870 0100 590 (Select Technical from the voice prompt menu).

Email:

If you placed your order online you may email technical@techtronics.com

Please ensure you quote your online order reference no, your contact no and as many details that you can supply.

Web:

<http://www.techtronics.com>

Returns

Please do not return your player without first speaking to a Techtronics technician. If a return for service is required, Techtronics can arrange for this to be done by a courier.