

# Service Manual

DVD Burner



Model No. **VW-BN01PP**

**VW-BN01E**

**VW-BN01EB**

**VW-BN01GT**

**VW-BN01GN**

**VW-BN01GK**

Colour

(K).....Black Type

## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 Safety Precaution

## 1.1. General Guidelines

### 1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock fire, or other hazards. Do not modify the original design without permission of manufacturer.

2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

## 2 Warning

### 2.1. Caution for AC Cord (For EB)

#### 2.1.1. Information for Your Safety

##### IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

##### WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

##### CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

##### FOR YOUR SAFETY

###### DO NOT REMOVE THE OUTER COVER

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

#### 2.1.2. Caution for AC Mains Lead

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362

Check for the ASTA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely.

There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

#### 2.1.2.1. Important

The wires in this mains lead are coloured in accordance with the following code:

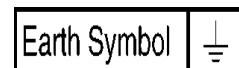
Blue	Neutral
Brown	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

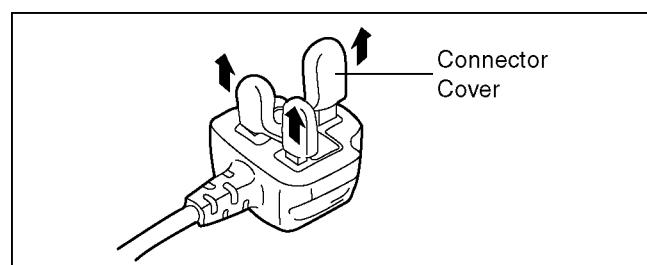
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.



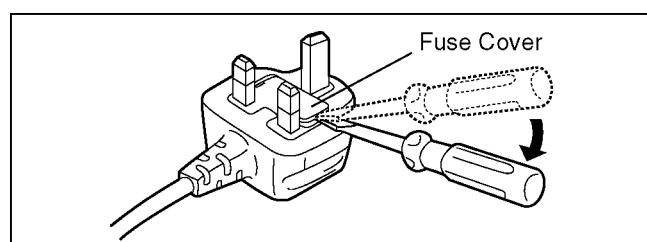
#### 2.1.2.2. Before Use

Remove the Connector Cover as follows.

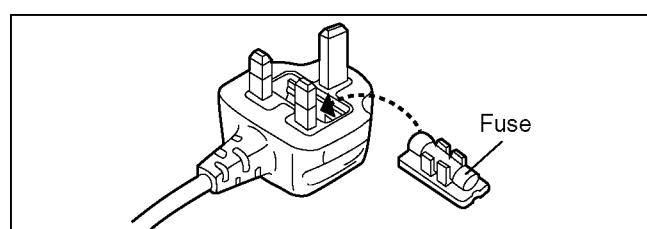


#### 2.1.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



# 3 Service Navigation

## 3.1. Introduction

This service manual contains technical information, which allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, the information will be followed by service manual to be controlled with original service manual.

## 3.2. How to Define the Model Suffix (NTSC or PAL model)

There are four kinds of VW-BN01.

- a) VW-BN01PP
- b) VW-BN01E/EB/GN
- c) VW-BN01GT
- d) VW-BN01GK

### 3.2.1. Defining methods:

To define the model suffix to be serviced, refer to the rating label which is putted on the Unit.

#### a) VW-BN01PP

The nameplate for this model show the following Safety registration mark.



#### b) VW-BN01E/EB/GN

The nameplate for these models show the following Safety registration mark.



#### c) VW-BN01GT

The nameplate for this model show the following Safety registration mark.



#### d) VW-BN01GK

The nameplate for this model show the following Safety registration mark.



## 4 Specifications

### DVD Burner: Information for your safety

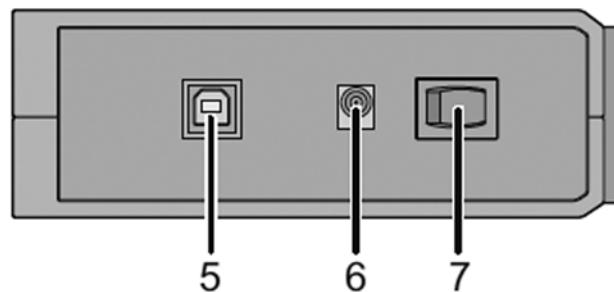
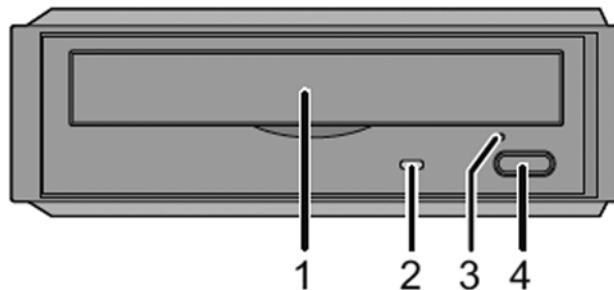
<b>Power source:</b>	DC 12.0 V
<b>Power consumption:</b>	24 W (When writing to a disc)

<b>Compatible media</b>	12 cm (5") DVD-RAM Ver.2.1 12 cm (5") DVD-RW Ver.1.2 12 cm (5") DVD-R for General Ver.2.1 12 cm (5") DVD-R for DL Ver.3.0 12 cm (5") +RW 12 cm (5") +R 12 cm (5") +R for DL	
<b>Interface</b>	Hi-Speed USB compliant (USB 2.0), USB terminal Type standard-B	
<b>Buffer capacity</b>	2 MB	
<b>Dimensions</b>	168 mm (W)×57.5 mm (H)×197.7 mm (D) 6.614" (W)×2.264" (H)×7.783" (D) (excluding the projecting parts)	
<b>Mass (Weight)</b>	Approx. 1200 g (2.64 lbs.) (DVD burner only)	
<b>Operating temperature</b>	5 °C to 35 °C (41 °F to 95 °F)	
<b>Operating humidity</b>	15% to 80%	
<b>Data writing rate</b>	DVD-RAM: Maximum 3X-SPEED DVD-RW: Maximum 6X-SPEED DVD-R: Maximum 16X-SPEED DVD-R DL: Maximum 8X-SPEED	+RW: Maximum 8X-SPEED +R: Maximum 16X-SPEED +R DL: Maximum 8X-SPEED
<b>Data reading rate</b>	DVD-RAM: Maximum 3X-SPEED DVD-RW: Maximum 8X-SPEED DVD-R: Maximum 16X-SPEED DVD-R DL: Maximum 8X-SPEED	+RW: Maximum 8X-SPEED +R: Maximum 16X-SPEED +R DL: Maximum 8X-SPEED

### AC adaptor: Information for your safety

<b>Power source:</b>	AC 110 V to 240 V, 50/60 Hz
<b>Power consumption:</b>	42 W
<b>DC output:</b>	DC 12 V, 2.5 A

## 5 Location of Controls and Components



- 1 Disc tray**
- 2 Access lamp [ACCESS]**
- 3 Emergency eject hole**
  - In case of eject/close button does not work, insert a small stick or paper clip into this hole. Turn the unit off before doing manual ejection.
- 4 Eject/close button [▲]**
  - Ejects/closes the disc tray.
- 5 USB terminal [↔]**
- 6 DC input terminal [DC IN 12 V]**
  - Do not use any other AC adaptors except the supplied one.
- 7 Power switch [On (I)/Off (O)]**

## 6 Replacement Parts List

### Notes:

\*Important safety notice:

Components identified by  mark have special characteristics important for safety.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

\*All parts are supplied by PAVC-CSG.

	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	1	VEQ4586	DVD DRIVE	1	PP
	1	VEQ4581	DVD DRIVE	1	E,EB,GN
	1	VEQ4584	DVD DRIVE	1	GT
	1	VEQ4585	DVD DRIVE	1	GK
	2	VSK0725	AC ADAPTER	1	PP
	2	VSK0726	AC ADAPTER	1	E,EB,GN
	2	VSK0724	AC ADAPTER	1	GT
	2	VSK0723	AC ADAPTER	1	GK
	3	K2CB2CB00022	AC CABLE	1	PP
	3	K2CQ29A00002	AC CABLE	1	E
	3	K2CT39A00002	AC CABLE	1	EB
	3	K2CJ29A00002	AC CABLE	1	GN
	3	K2CA29A00021	AC CABLE	1	GT
	3	K2CA2YY00070	AC CABLE	1	GK
	4	K1HY04YY0048	USB CABLE	1	
	5	VQT2Y53	O/I(ENGLISH/CANADIAN FRENCH/SPANISH)	1	PP
	5	VQT2Y54	O/I(ENGLISH/GERMAN/FRENCH/ITALIAN/SPANISH/TURKISH)	1	E
	5	VQT2Y55	O/I(SWEDISH/DANISH/POLISH/CZECH/HUNGARIAN/PORTUGUESE)	1	E
	5	VQT2Y56	O/I(RUSSIAN/UKRAINIAN/THAI/HINDI)	1	E
	5	VQT2Y57	O/I(ENGLISH/CHINESE(TRADITIONAL)/ARABIC/PERSIAN)	1	EB
	5	VQT2Y59	O/I(ENGLISH)	1	GN
	5	VQT2Y58	O/I(CHINESE(TRADITIONAL))	1	GT
	5	VQT2Y60	O/I(CHINESE(SIMPLIFIED))	1	GK
	6	VYQ6005	PACKING CASE	1	PP
	6	VPG2N72	PACKING CASE	1	E
	6	VYQ6006	PACKING CASE	1	EB
	6	VYQ6007	PACKING CASE	1	GN
	6	VYQ6008	PACKING CASE	1	GT
	6	VPG2N73	PACKING CASE	1	GK
	8	VPN7146	CUSHION	1	
	9	VPN7146	CUSHION	1	
	10	VPN7147	PAD	1	

## 7 Exploded Views

