

BDV-N590/N790W/N890W/ N990W/T79

SERVICE MANUAL

Ver. 1.0 2012.02

- BDV-N590/N790W/N890W/N990W/T79 are composed of following models.
As service manuals are issued for each component model, please refer to them.

COMPONENT MODEL NAME

	BDV-N590	BDV-N790W	BDV-N890W	BDV-N990W	BDV-T79
Blu-ray disc™/DVD receiver	HBD-N590	HBD-N790W	HBD-N890W	HBD-N990W	HBD-T79
Front speaker	SS-TSB111	SS-TSB112	SS-TSB113	SS-TSB113	SS-TSB112
Center speaker	SS-CTB111	SS-CTB111	SS-CTB111	SS-CTB111	SS-CTB111
Surround speaker	SS-TSB111	SS-TSB111	SS-TSB111	SS-TSB114	SS-TSB111
Subwoofer	SS-WSB111	SS-WSB111	SS-WSB111	SS-WSB112	SS-WSB111
Surround amplifier	-	TA-SA300WR	TA-SA300WR	TA-SA300WR	TA-SA300WR
Wireless transceiver	-	EZW-RT50	EZW-RT50	EZW-RT50	EZW-RT50
Dock for iPod/iPhone	TDM-iP30	TDM-iP30	TDM-iP30	TDM-iP30	TDM-iP30

Note 1: As for EZW-RT50 and TDM-iP30, the part number has been described to this service manual.

Note 2: TDM-iP30 is US, Canadian, AEP, UK, Australian and PX models only.

SPECIFICATIONS

General

Power requirements	120 V AC, 60 Hz US, Canadian models: PX model: 50/60 Hz 220 V - 240 V AC, 50/60 Hz
Other models:	On: 135 W (BDV-N590) On: 115 W (BDV-N790W/ N890W/N990W/T79) Standby: 0.3 W (at the Power Saving mode)
Dimensions (approx.)	460 mm × 74 mm × 226 mm (18 1/8 in × 3 in × 9 in) (w/h/d) incl. projecting parts 460 mm × 74 mm × 239 mm (18 1/8 in × 3 in × 9 1/2 in) (w/h/d) (with the wireless transceiver inserted) (BDV-N790W/ N890W/N990W/T79 only) 460 mm × 148 mm × 226 mm (w/h/d) (with stand and cord cover attached) (BDV-N990W only)
Mass (approx.)	3.6 kg (BDV-N790W/ N890W/N990W/T79) 3.5 kg (BDV-N590)

Wireless transceiver (EZW-RT50)

Communication system	Wireless sound Specification version 1.0
Frequency band	US, Canadian, PX models: 5.736 GHz - 5.814 GHz Other models: 5.725 GHz - 5.875 GHz
Modulation method	DSSS
Power requirements	DC 3.3 V, 300 mA
Dimensions (approx.)	30 mm × 9 mm × 60 mm (1 3/16 in × 3/8 in × 2 3/8 in) (w/h/d)
Mass (approx.)	10 g (1/2 oz)
Design and specifications are subject to change without notice.	
• Standby power consumption 0.3W (Main Unit), 0.2W (Surround Amplifier). (BDV-N790W/N890W/N990W/T79)	
• Standby power consumption 0.3W. (BDV-N590)	
• Over 85% power efficiency of amplifier block is achieved with the full digital amplifier, S-Master.	

Unpacking

- Front speakers (2)
- Surround speakers (2)
- Center speaker (1)
- Subwoofer (1)
- Speaker cords (2, red/white) (BDV-N890W only)
- Speaker cords (4, red/white/gray/blue) (BDV-N990W only)
- Speaker-bottom covers (2) (BDV-N890W only), (4) (BDV-N990W only)
- Bases (2) (BDV-N890W only), (4) (BDV-N990W only)
- Lower parts of the front speakers (2) (BDV-N890W only), (4) (BDV-N990W only)
- Screws (silver) for the speaker (2) (BDV-N890W only), (4) (BDV-N990W only)
- Screws (black) for the speaker (6) (BDV-N890W only), (12) (BDV-N990W only)
- Stand (1) (BDV-N990W only)
- Screws for the stand (3) (BDV-N990W only)
- Cord cover (1) (BDV-N990W only)
- FM wire antenna (aerial) (1)
- Remote commander (remote) (1)
- R6 (size AA) batteries (2)
- Calibration mic (1)
- Dock for iPod/iPhone (TDM-iP30) (1) (US, Canadian, AEP, UK, Australian, PX models only)
- USB cable (1) (US, Canadian, AEP, UK, Australian, PX models only)
- Video cord (1) (US, Canadian, AEP, UK, Australian, PX models only)
- High Speed HDMI cable (1) (BDV-N590; Singapore model/BDV-N890W: Saudi Arabia, Iranian, Singapore, Middle East models/BDV-N990W: Saudi Arabia, Iranian, Singapore, Middle East, Indian models/BDV-T79 only)
- Surround amplifier (1) (BDV-N790W/N890W/N990W/T79 only)
- Wireless transceivers (2) (BDV-N790W/N890W/N990W/T79 only)
- AC plug adaptors (2) (PX model only)
- Operating Instructions (Except AEP, UK models only)
- Quick Setup Guide
- Speaker Installation Guide
- Reference Guide (AEP, UK models only)
- Wireless Product Compliance Information (AEP, UK models only)

• iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

— Refer to next page for accessories list —

BLU-RAY DISC™/DVD HOME THEATRE SYSTEM

9-893-439-01

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ACCESSORIES

Ref. No.	Part No.	Description	Remark
	4-418-125-12	MANUAL, INSTRUCTION (ENGLISH) (N890W: US, CND/N990W: CND)	
	4-418-125-21	MANUAL, INSTRUCTION (FRENCH) (N890W: CND/N990W: CND)	
	4-418-125-31	MANUAL, INSTRUCTION (SPANISH) (N890W: US)	
	4-418-130-12	MANUAL, INSTRUCTION (ENGLISH) (N790W: US/T79)	
	4-418-130-21	MANUAL, INSTRUCTION (SPANISH) (N790W: US/T79)	
	4-418-130-31	MANUAL, INSTRUCTION (ENGLISH) (N790W: PX)	
	4-418-138-11	MANUAL, INSTRUCTION (ENGLISH) (N890W: AUS/N990W: AUS)	
	4-418-139-11	MANUAL, INSTRUCTION (FRENCH) (N890W: AEP/N990W: AEP)	
	4-418-139-21	MANUAL, INSTRUCTION (SPANISH) (N890W: AEP/N990W: AEP)	
	4-418-139-31	MANUAL, INSTRUCTION (GERMAN) (N890W: AEP/N990W: AEP)	
	4-418-139-41	MANUAL, INSTRUCTION (DUTCH) (N890W: AEP/N990W: AEP)	
	4-418-139-51	MANUAL, INSTRUCTION (ITALIAN) (N890W: AEP/N990W: AEP)	
	4-418-139-61	MANUAL, INSTRUCTION (POLISH) (N890W: AEP/N990W: AEP)	
	4-418-140-11	MANUAL, INSTRUCTION (PORTUGUESE) (N890W: AEP/N990W: AEP)	
	4-418-140-21	MANUAL, INSTRUCTION (SWEDISH) (N890W: AEP/N990W: AEP)	
	4-418-140-31	MANUAL, INSTRUCTION (DANISH, FINNISH) (N890W: AEP/N990W: AEP)	
	4-418-140-41	MANUAL, INSTRUCTION (GREEK) (N890W: AEP/N990W: AEP)	
	4-418-140-51	MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (N890W: AEP/N990W: AEP)	
	4-418-140-61	MANUAL, INSTRUCTION (TURKISH) (N890W: AEP/N990W: AEP)	
	4-418-140-71	MANUAL, INSTRUCTION (SLOVAKIAN) (N890W: AEP/N990W: AEP)	
	4-418-141-12	MANUAL, INSTRUCTION (ENGLISH) (N790W: UK/N890W: E3, E15, EA, SP/ N990W: E3, E12, E15, EA, SP)	
	4-418-141-21	MANUAL, INSTRUCTION (FRENCH) (N890W: E3/N990W: E3)	
	4-418-141-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (N890W: SP/N990W: SP)	
	4-418-141-61	MANUAL, INSTRUCTION (ARABIC) (N890W: E3, EA/N990W: E3, EA)	

Ref. No.	Part No.	Description	Remark
	4-418-141-71	MANUAL, INSTRUCTION (PERSIAN) (N890W: E15/N990W: E15)	
	4-418-142-11	MANUAL, INSTRUCTION (FRENCH) (N790W: AEP)	
	4-418-142-21	MANUAL, INSTRUCTION (SPANISH) (N790W: AEP)	
	4-418-142-31	MANUAL, INSTRUCTION (GERMAN) (N790W: AEP)	
	4-418-142-41	MANUAL, INSTRUCTION (DUTCH) (N790W: AEP)	
	4-418-142-51	MANUAL, INSTRUCTION (ITALIAN) (N790W: AEP)	
	4-418-142-61	MANUAL, INSTRUCTION (POLISH) (N790W: AEP)	
	4-418-143-11	MANUAL, INSTRUCTION (PORTUGUESE) (N790W: AEP)	
	4-418-143-21	MANUAL, INSTRUCTION (SWEDISH) (N790W: AEP)	
	4-418-143-31	MANUAL, INSTRUCTION (DANISH, FINNISH) (N790W: AEP)	
	4-418-143-41	MANUAL, INSTRUCTION (GREEK) (N790W: AEP)	
	4-418-143-51	MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (N790W: AEP)	
	4-418-143-61	MANUAL, INSTRUCTION (TURKISH) (N790W: AEP)	
	4-418-143-71	MANUAL, INSTRUCTION (SLOVAKIAN) (N790W: AEP)	
	4-418-144-12	MANUAL, INSTRUCTION (ENGLISH) (N590: UK, SP, AUS)	
	4-418-144-21	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (N590: SP)	
	4-418-145-11	MANUAL, INSTRUCTION (FRENCH) (N590: AEP)	
	4-418-145-21	MANUAL, INSTRUCTION (SPANISH) (N590: AEP)	
	4-418-145-31	MANUAL, INSTRUCTION (GERMAN) (N590: AEP)	
	4-418-145-41	MANUAL, INSTRUCTION (DUTCH) (N590: AEP)	
	4-418-145-51	MANUAL, INSTRUCTION (ITALIAN) (N590: AEP)	
	4-418-145-61	MANUAL, INSTRUCTION (POLISH) (N590: AEP)	
	4-418-146-11	MANUAL, INSTRUCTION (PORTUGUESE) (N590: AEP)	
	4-418-146-21	MANUAL, INSTRUCTION (SWEDISH) (N590: AEP)	
	4-418-146-31	MANUAL, INSTRUCTION (DANISH, FINNISH) (N590: AEP)	
	4-418-146-41	MANUAL, INSTRUCTION (GREEK) (N590: AEP)	
	4-418-146-51	MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (N590: AEP)	
	4-418-146-61	MANUAL, INSTRUCTION (TURKISH) (N590: AEP)	
	4-418-146-71	MANUAL, INSTRUCTION (SLOVAKIAN) (N590: AEP)	

• Abbreviation

AUS : Australian model
 CND : Canadian model
 E3 : Middle East model
 E12 : Indian model
 E15 : Iranian model
 EA : Saudi Arabia model
 SP : Singapore model

– Continued on next page –

Ref. No.	Part No.	Description	Remark
1	1-839-717-21	CORD (WITH CONNECTOR) (SPEAKER) (Speaker cords (4, red/white/gray/blue)) (N990W: CND, E3, E12, E15, EA, SP, AUS)	
1	1-839-717-31	CORD (WITH CONNECTOR) (SPEAKER) (Speaker cords (4, red/white/gray/blue)) (N990W: AEP)	
1	1-839-730-11	CORD (WITH CONNECTOR) (SPEAKER) (Speaker cords (2, red/white)) (N890W: AEP)	
1	1-839-730-21	CORD (WITH CONNECTOR) (SPEAKER) (Speaker cords (2, red/white)) (N890W: US, CND, E3, E15, EA, SP, AUS)	
2	4-409-409-01	COVER (TB-NX) (Speaker-bottom cover) (1 piece) (N890W/N990W)	
3	A-1851-316-A	STAND BASE ASSY (Base) (1 piece) (N890W/N990W)	
4	4-162-924-11	FOOT (ST) (1 piece) (N890W/N990W)	
5	A-1850-981-A	STAND ASSY (TB) (Lower parts of the front speaker) (1 piece) (N890W/N990W)	
6	7-682-973-31	SCREW +PSW 5X14 (Screw (silver) for the speaker) (1 piece) (N890W/N990W)	
7	7-682-574-09	SCREW +B 5X8 (Screw (black) for the speaker) (1 piece) (N890W/N990W)	
8	X-2583-061-1	STAND ASSY (Stand) (N990W)	
9	4-295-590-01	FOOT (1 piece) (N990W)	
10	7-682-561-09	SCREW +B 4X8 (Screw for the stand) (1 piece) (N990W)	
11	X-2583-080-1	CABLE COVER ASSY (Cord cover) (N990W)	
12	1-754-060-21	ANTENNA (FM) (FM wire antenna (aerial)) (EXCEPT US, CND, PX)	
12	1-793-184-41	CONNECTOR (F TYPE ADAPTOR) (FM wire antenna (aerial)) (US, CND, PX)	
13	1-489-942-11	REMOTE COMMANDER (RM-ADP076) (N890W: US, CND/N990W: CND)	
13	1-489-943-11	REMOTE COMMANDER (RM-ADP077) (N890W: AEP, AUS/N990W: AEP, AUS)	
13	1-489-949-11	REMOTE COMMANDER (RM-ADP072) (N790W: US, PX/T79)	
13	1-489-951-11	REMOTE COMMANDER (RM-ADP074) (N590/N790W: AEP, UK/N890W: E3, E15, EA, SP/ N990W: E3, E12, E15, EA, SP)	
14	1-542-903-11	MEASUREMENT MIC (STEREO) (Calibration mic: ECM-AC3)	
15	A-1797-336-A	OVERALL ASSY (Dock for iPod/iPhone: TDM-iP30) (US, CND, AEP, UK, AUS, PX)	
16	1-839-839-11	CORD, CONNECTION (USB5P) (USB cable) (US, CND, AEP, UK, AUS, PX)	
17	1-838-669-11	CORD, CONNECTION (Video cord) (US, CND, AEP, UK, AUS, PX)	
18	1-835-855-31	CORD WITH CONNECTOR (HDMI CABLE) (High Speed HDMI cable) (N590: SP/N890W: E3, E15, EA, SP/ N990W: E3, E12, E15, EA, SP/T79)	
19	1-489-359-11	RF MODULATOR (EZV-RT50 UC) (Wireless transceiver) (1 piece) (N790W: AEP, UK/N890W: AEP/N990W: AEP)	
19	1-489-360-11	RF MODULATOR (EZV-RT50 UC2) (Wireless transceiver) (1 piece) (N790W: US, PX/ N890W: US, CND/N990W: CND/T79)	
19	1-489-361-11	RF MODULATOR (EZV-RT50 AU) (Wireless transceiver) (1 piece) (N890W: E3, E15, EA, SP, AUS/N990W: E3, E12, E15, EA, SP, AUS)	

• Abbreviation

AUS : Australian model
CND : Canadian model
E3 : Middle East model
E12 : Indian model
E15 : Iranian model
EA : Saudi Arabia model
SP : Singapore model

1 Speaker cords
(2, red/white)
(BDV-N890W)



2 Speaker-bottom covers
(2: BDV-N890W)
(4: BDV-N990W)



5 Lower parts of the front speakers
(2: BDV-N890W)
(4: BDV-N990W)



7 Screws (black) for the speaker
(6: BDV-N890W)
(12: BDV-N990W)



10 Screws for the stand (3)
(BDV-N990W only)



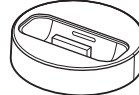
11 Cord cover (1)
(BDV-N990W only)



13 Remote commander
(remote) (1)



15 Dock for iPod/iPhone
(TDM-iP30) (1)
(US, Canadian, AEP, UK,
Australian, PX models only)



17 Video cord (1)
(US, Canadian, AEP, UK,
Australian, PX models only)



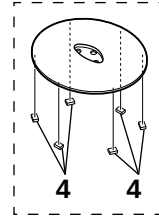
19 Wireless transceiver (2)
(BDV-N790W/N890W/
N990W/T79 only)



1 Speaker cords
(4, red/white/gray/blue)
(BDV-N990W)



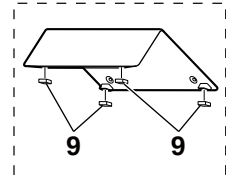
3 Bases
(2: BDV-N890W)
(4: BDV-N990W)



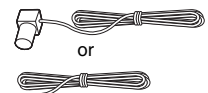
6 Screws (silver) for the speaker
(2: BDV-N890W)
(4: BDV-N990W)



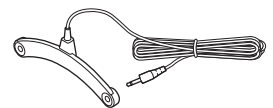
8 Stand (1)
(BDV-N990W only)



12 FM wire antenna (aerial) (1)



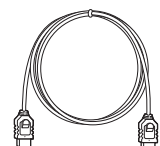
14 Calibration mic (1)



16 USB cable (1)
(US, Canadian, AEP, UK,
Australian, PX models only)



18 High Speed HDMI cable (1)
(N590: Singapore/N890W:
Saudi Arabia, Iranian, Singapore,
Middle East/N990W: Saudi Arabia,
Iranian, Singapore, Middle East,
Indian/T79 only)



REVISION HISTORY

Checking the version allows you to jump to the revised page.

Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

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