

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: 110 V - 240 V AC, PX model: 50/60 Hz
Other models:	220 V - 240 V AC, 50/60 Hz
Power consumption	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 1/16 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

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SONY®

BDV-N590/N790W/N890W/N990W/T79

ACCESSORIES

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
4-418-125-12		MANUAL, INSTRUCTION (ENGLISH) (N890W: US, CND/N990W: CND)		4-418-141-71		MANUAL, INSTRUCTION (PERSIAN) (N890W: E15/N990W: E15)	
4-418-125-21		MANUAL, INSTRUCTION (FRENCH) (N890W: CND/N990W: CND)		4-418-142-11		MANUAL, INSTRUCTION (FRENCH) (N790W: AEP)	
4-418-125-31		MANUAL, INSTRUCTION (SPANISH) (N890W: US)		4-418-142-21		MANUAL, INSTRUCTION (SPANISH) (N790W: AEP)	
4-418-130-12		MANUAL, INSTRUCTION (ENGLISH) (N790W: US/T79)		4-418-142-31		MANUAL, INSTRUCTION (GERMAN) (N790W: AEP)	
4-418-130-21		MANUAL, INSTRUCTION (SPANISH) (N790W: US/T79)		4-418-142-41		MANUAL, INSTRUCTION (DUTCH) (N790W: AEP)	
4-418-130-31		MANUAL, INSTRUCTION (ENGLISH) (N790W: PX)		4-418-142-51		MANUAL, INSTRUCTION (ITALIAN) (N790W: AEP)	
4-418-138-11		MANUAL, INSTRUCTION (ENGLISH) (N890W: AUS/N990W: AUS)		4-418-142-61		MANUAL, INSTRUCTION (POLISH) (N790W: AEP)	
4-418-139-11		MANUAL, INSTRUCTION (FRENCH) (N890W: AEP/N990W: AEP)		4-418-143-11		MANUAL, INSTRUCTION (PORTUGUESE) (N790W: AEP)	
4-418-139-21		MANUAL, INSTRUCTION (SPANISH) (N890W: AEP/N990W: AEP)		4-418-143-21		MANUAL, INSTRUCTION (SWEDISH) (N790W: AEP)	
4-418-139-31		MANUAL, INSTRUCTION (GERMAN) (N890W: AEP/N990W: AEP)		4-418-143-31		MANUAL, INSTRUCTION (DANISH, FINNISH) (N790W: AEP)	
4-418-139-41		MANUAL, INSTRUCTION (DUTCH) (N890W: AEP/N990W: AEP)		4-418-143-41		MANUAL, INSTRUCTION (GREEK) (N790W: AEP)	
4-418-139-51		MANUAL, INSTRUCTION (ITALIAN) (N890W: AEP/N990W: AEP)		4-418-143-51		MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (N790W: AEP)	
4-418-139-61		MANUAL, INSTRUCTION (POLISH) (N890W: AEP/N990W: AEP)		4-418-143-61		MANUAL, INSTRUCTION (TURKISH) (N790W: AEP)	
4-418-140-11		MANUAL, INSTRUCTION (PORTUGUESE) (N890W: AEP/N990W: AEP)		4-418-143-71		MANUAL, INSTRUCTION (SLOVAKIAN) (N790W: AEP)	
4-418-140-21		MANUAL, INSTRUCTION (SWEDISH) (N890W: AEP/N990W: AEP)		4-418-144-12		MANUAL, INSTRUCTION (ENGLISH) (N590: UK, SP, AUS)	
4-418-140-31		MANUAL, INSTRUCTION (DANISH, FINNISH) (N890W: AEP/N990W: AEP)		4-418-144-21		MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (N590: SP)	
4-418-140-41		MANUAL, INSTRUCTION (GREEK) (N890W: AEP/N990W: AEP)		4-418-145-11		MANUAL, INSTRUCTION (FRENCH) (N590: AEP)	
4-418-140-51		MANUAL, INSTRUCTION (CZECH, HUNGARIAN) (N890W: AEP/N990W: AEP)		4-418-145-21		MANUAL, INSTRUCTION (SPANISH) (N590: AEP)	
4-418-140-61		MANUAL, INSTRUCTION (TURKISH) (N890W: AEP/N990W: AEP)		4-418-145-31		MANUAL, INSTRUCTION (GERMAN) (N590: AEP)	
4-418-140-71		MANUAL, INSTRUCTION (SLOVAKIAN) (N890W: AEP/N990W: AEP)		4-418-145-41		MANUAL, INSTRUCTION (DUTCH) (N590: AEP)	
4-418-141-12		MANUAL, INSTRUCTION (ENGLISH) (N790W: UK/N890W: E3, E15, EA, SP/ N990W: E3, E12, E15, EA, SP)		4-418-145-51		MANUAL, INSTRUCTION (ITALIAN) (N590: AEP)	
4-418-141-21		MANUAL, INSTRUCTION (FRENCH) (N890W: E3/N990W: E3)		4-418-145-61		MANUAL, INSTRUCTION (POLISH) (N590: AEP)	
4-418-141-41		MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (N890W: SP/N990W: SP)		4-418-146-11		MANUAL, INSTRUCTION (PORTUGUESE) (N590: AEP)	
4-418-141-61		MANUAL, INSTRUCTION (ARABIC) (N890W: E3, EA/N990W: E3, EA)		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 (EZW-RT50 UC) (Wireless transceiver) (1 piece) (N790W: AEP, UK/N890W: AEP/N990W: AEP)	
19	1-489-360-11	RF MODULATOR (EZW-RT50 UC2) (Wireless transceiver) (1 piece) (N790W: US, PX/ N890W: US, CND/N990W: CND/T79)	
19	1-489-361-11	RF MODULATOR (EZW-RT50 AU) (Wireless transceiver) (1 piece) (N890W: E3, E15, EA, SP, AUS/N990W: E3, E12, E15, EA, SP, AUS)	

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- EA : Saudi Arabia model
- SP : Singapore model



