

MDS-JA3ES

SONY. SERVICE MANUAL

US Model
Canadian Model
AEP Model

SUPPLEMENT-1

File this supplement with the service manual.

**Subject : 1. CHANGE OF ADJUSTMENT SPECIFICATION
2. CORRECTION
3. SERVICE NOTE
4. BOARD CHANGE
5. ADDITION OF COUNTERMEASURE BOARD
6. PARTS CHANGE**

(ECN-CD501076/CD501133)

1. CHANGE OF ADJUSTMENT SPECIFICATION

The specified value of the following adjustment in the service manual (9-960-228-11) issued first has been changed as shown.

4-5. Temperature Compensation Offset Adjustment

Page	CURRENT	REVISED
26	Specifications: Within "TEMP=E0" to "TEMP=1F".	Specifications: The TEMP value should be within E0 to EF, F0 to FF, 00 to 0F, 10 to 1F, and 20 to 2F.

2. CORRECTION

The service manual issued first contained the following error. Please correct as shown.

TEST MODE

Page	INCORRECT	CORRECT
23	3-5. Functions of Other keys ▷ Sets continuous playback when pressed in the STOP state. □□ When pressed during continuous playback, the tracking servo turns ON/OFF.	▷ Sets continuous playback when pressed in the STOP state. When pressed during continuous playback, the tracking servo turns ON/OFF.

ELECTRICAL PARTS LIST

Page	INCORRECT				CORRECT			
	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
97	*	A-4673-414-A	PANEL BOARD, COMPLETE *****		*	A-4673-414-A	DISP BOARD, COMPLETE *****	

3. SERVICE NOTE

• Note for replacement of IC121 and IC171 on the BD board

IC121 on the BD board of this unit has modified from CXD2535AR to CXD2535BR due to an improvement.

Some contents of nonvolatile memory in the IC171 (X24C01S) are modified according to this modification. When replacing IC171, the previous contents for IC121 (CXD2535AR) are written as an initialized value from the system control IC. (When replacing IC171, turn the power on once to write an initialized value.)

In case the IC171 on the BD board is replaced, which uses CXD2535BR to IC121, see the following procedure to rewrite the contents of nonvolatile memory. As for replacement of IC121, use CXD2535BR to rewrite the contents of IC171.

Table Comparison between CXD2535AR and CXD2535BR regarding the contents of nonvolatile memory

ADDRESS	CXD2535AR	CXD2535BR
15	90	93
2D	33	1A
2E	33	1A

How to rewrite the nonvolatile memory

- ① Plug in the power plug to an outlet pressing the AMS knob, and release the AMS knob.
- ② Turn the AMS knob to be displayed "EEP MODE".
If the YES button is pressed, the display will be changed to "EEP ** @@".
(* : Address, @ : data)
- ③ Turn the AMS knob to be displayed "EEP 15 @@".
- ④ If the AMS knob is pressed, "EEP 15 @@ > @@" will be displayed. So turn the AMS knob to be displayed "EEP 15 @@ > 93".
- ⑤ Pressing the YES button, "Complete!" is displayed once, "EEP 15 93" is displayed, and the data is rewritten.
- ⑥ As for the address 2D and 2E, rewrite each of them to "1A" following the steps ③ to ⑤ as well.
- ⑦ After the all modification are complete, press the NO button to be displayed "EEP MODE".
- ⑧ Press the REPEAT button. In case a disc is unloaded, the display "STANDBY" will be go on and off, then unplug the power plug. In case a disc is loaded, "STANDBY" is displayed once and the disc is ejected. After that, unplug the power plug from an outlet to be out from the EEP rewriting mode. (Refer to **[How to stop test mode]** as below.)

Note : The modification in the contents of nonvolatile memory is not reflected if the power is not turned off once.

[How to stop test mode]

In the previous mentioned text regarding test mode, "Exiting the test mode" is that should be unplug the power plug from an outlet. If the test mode is released in this way, an incorrect operation will rarely occur to the set. So release the test mode according to the followings.

• Procedure

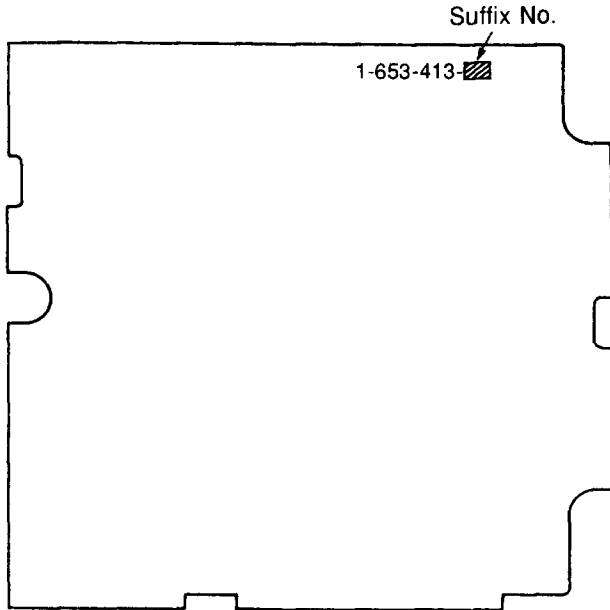
- (1) Press the **REPEAT** button.
- (2) In case a disc is unloaded, the display "STANDBY" will go on and off.
In case a disc is loaded, the "STANDBY" is displayed once and the disc is ejected.
- (3) Unplug the power plug from an outlet.

4. BOARD CHANGE

3-1. BD board change

NOTE: Many charge of mounting parts are different between boards which have a suffix No. - 15 or later and which have a suffix No. - 14 . Refer to this supplement-1 for boards which have a suffix No. - 15 or later. As for boards which have a suffix No. - 14, refer to the previous issued manual (9-960-228-11).

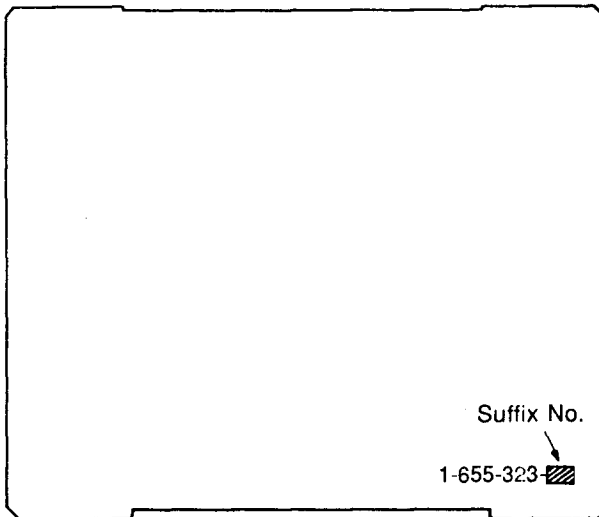
• Part No. Location — BD board — (Component side)



3-2. DIGITAL board change

NOTE: Many charge of mounting parts are different between boards which have a suffix No. - 13 or later and which have a suffix No. - 12 . Refer to this supplement-1 for boards which have a suffix No. - 13 or later. As for boards which have a suffix No. - 12, refer to the previous issued manual (9-960-228-11).

• Part No. Location — DIGITAL board — (Component side)



5. ADDITION OF COUNTERMEASURE BOARD

[Addition of countermeasure board (XTL Board, MCK Board)]

The clock circuit of the DIGITAL board IC221 (ATRAC ENCODER/DECODER) has been changed and the XTL board and MCK board have been added (these boards are not provided).

Refer to the following List of Differences for the changes.

BOARD	FORMER					NEW (Units Added with Countermeasure Board)					
	Ref.No	Part No	Description	Remark		Ref.No	Part No	Description	Remark		
AUDIO	JW901	NOT USED				JW901	NOT SUPPLIED (JUMPER, LEAD)				
	R901	NOT USED				R901	1-259-412-11	CARBON	220	5%	1/6W
	R902	NOT USED				R902	1-259-404-11	CARBON	100	5%	1/6W
DIGITAL	R226	1-216-033-00	METAL CHIP	220	5%	1/10W	R226	DELETE			
MCK	C801	NOT USED				C801	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
	C802	NOT USED				C802	1-163-009-11	CERAMIC CHIP	1000PF	10%	50V
	C803	NOT USED				C803	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
	JW1	NOT USED				JW1	1-216-295-00	CONDUCTOR CHIP			
	JW2	NOT USED				JW2	1-216-295-00	CONDUCTOR CHIP			
	IC801	NOT USED				IC801	8-759-925-90	IC	SN74HC74ANS		
	R801	NOT USED				R801	1-216-033-00	METAL CHIP	220	5%	1/10W
			NOT USED					4-870-539-01	PLATE, GROUND		
XTL	C851	NOT USED				C851	1-163-227-11	CERAMIC CHIP	10PF	50V	
	C852	NOT USED				C852	1-163-227-11	CERAMIC CHIP	10PF	50V	
	R851	NOT USED				R851	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
	X851	NOT USED				X851	1-579-069-11	VIBRATOR CRISTAL	(49.152MHz)		

6. PARTS CHANGE

Electrical Parts List

Page	FORMER						NEW					
	Ref.No	Part No	Description	Remark			Ref.No	Part No	Description	Remark		
89			** AC BOARD ** 7-682-548-09 +BVTT 3X8, (S)						** AC BOARD ** 7-685-646-79 SCREW +BVTP 3X8 TYPE 2 N-S			
			** AUDIO BOARD ** 7-682-548-09 +BVTT 3X8, (S)						** AUDIO BOARD ** 7-685-646-79 SCREW +BVTP 3X8 TYPE 2 N-S			
	C532	1-162-199-31	CERAMIC	10PF	5%	50V	C532					
90	C551	1-162-294-31	CERAMIC	0.001uF	10%	50V	C551		(JUMPER)			
	IC508	8-759-982-03	IC RC5532DD				IC508	8-759-712-02	IC NJM2114D			
	IC509	8-759-982-03	IC RC5532DD				IC509	8-759-712-02	IC NJM2114D			
	IC510	8-759-982-03	IC RC5532DD				IC510	8-759-712-02	IC NJM2114D			
	IC511	8-759-982-03	IC RC5532DD				IC511	8-759-712-02	IC NJM2114D			
91	R523	1-259-412-11	CARBON	220	5%	1/6W	R523	1-259-404-11	CARBON	100	5%	1/6W
	R531	1-259-420-11	CARBON	470	5%	1/6W	R531	1-259-402-11	CARBON	82	5%	1/6W
95			** HP BOARD **						** HP BOARD **			
	C651	1-164-054-11	CERAMIC	22PF	5%	50V	C651	1-102-959-00	CERAMIC	22PF	5%	50V
	C652	1-164-054-11	CERAMIC	22PF	5%	50V	C652	1-102-959-00	CERAMIC	22PF	5%	50V
	C655	1-164-085-11	CERAMIC	0.001uF	10%	50V	C655	1-102-074-00	CERAMIC	0.001uF	10%	50V
	C656	1-164-085-11	CERAMIC	0.001uF	10%	50V	C656	1-102-074-00	CERAMIC	0.001uF	10%	50V
96	IC651	8-759-711-18	IC NJM4556D-D				IC651	8-759-359-60	IC NJM4556AD-D			
			** MIC BOARD **						** MIC BOARD **			
	C602	1-164-085-11	CERAMIC	0.001uF	10%	50V	C602	1-102-074-00	CERAMIC	0.001uF	10%	50V
	C603	1-164-085-11	CERAMIC	0.001uF	10%	50V	C603	1-102-074-00	CERAMIC	0.001uF	10%	50V
	C604	1-164-085-11	CERAMIC	0.001uF	10%	50V	C604	1-102-074-00	CERAMIC	0.001uF	10%	50V
97			** DISP BOARD **						** DISP BOARD **			
			4-976-360-01 REINFORCEMENT (CONT)				*	4-955-901-01 CUSHION (FL)				
								4-976-360-02 REINFORCEMENT (CONT)				
98			** PW BOARD ** 7-682-548-09 +BVTT 3X8, (S)						** PW BOARD ** 7-685-646-79 SCREW +BVTP 3X8 TYPE 2 N-S			
	C933	1-124-916-11	ELECT	22uF	20%	63V	C933	1-126-965-11	ELECT	22uF	20%	50V
	C945	1-124-925-11	ELECT	2.2uF	20%	100V	C945	1-126-961-11	ELECT	2.2uF	20%	50V