

SONY

Car Stereo
Service Bulletin

Sony Service Company - Technical Services
A Division of Sony Corporation of America
Sony Drive, Park Ridge, New Jersey 07656

Model: CDX-5180/U8000

No. 271

Subject: Service Mode Instructions

Date: December 30, 1992

Symptom: (**) The instructions for entering and using the service mode are not in the Service Manual.

Solution: The service mode instructions are as follows:

1. Entering the service mode:

Method 1:

MODEL	PROCEDURE
CDX-U8000	PRESS "OFF", THEN "7", THEN "9", THEN PRESS "1" FOR 2 SECONDS
CDX-5180	PRESS "OFF", THEN "4", THEN "5", THEN PRESS "1" FOR 2 SECONDS

Method 2:

Ground pin 41 of master C.P.U. IC-504, then press the RESET button.

The service mode can be released by pressing the OFF key (Method 1), or by removing the ground from IC-504 pin 41, followed by pressing the RESET button (Method 2).

"SHUF 1" is displayed whenever the service mode is active.

2. LCD Test:
All segments of the LCD are illuminated when the service mode is entered. The LCD test can be repeated by pressing the DSPL key.
3. Electronic Volume Control Test:
The initial setting of the volume level when the service mode is entered is dependent upon the source selected, as shown in the following table:

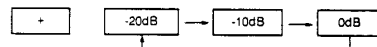
SOURCE	INITIAL VOLUME SETTING
TAPE	0dB
TUNER	-21dB
CD	-10dB
TV (CDX-U8000 ONLY)	-10db

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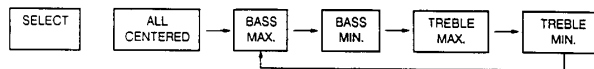


Caution: The service mode sets the volume level to the maximum and near maximum levels. It is recommended that the speaker outputs be terminated with load resistors of sufficient power handling capabilities rather than connecting the outputs to speakers. This will prevent damage to the speakers, amplifiers, and your hearing.

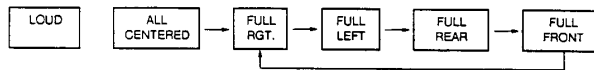
- 3.1 The volume level is changed from the initial setting by pressing "+" key as follows:



- 3.2 The bass and treble settings are changed by pressing the SELECT key as follows:



- 3.3 The balance and fade settings are changed by pressing the LOUD key as follows:



Pressing the MUTE key centers all tone, balance, and fade controls, and turns muting on and off.

4. CD Tests:

The service mode can be used to test and service both the CD section internal to the CDX-5180 and CDX-U8000, and Unilink CD changers connected to the CDX-U8000.

- 4.1 Tracking Servo ON/OFF:

Pressing the INTRO key while disc is playing turns off the tracking servo. Pressing the INTRO key again turns the tracking servo on. The word "INTRO" appears on the display whenever the tracking servo is off. AMS and manual search functions are not available when the tracking servo is off.

The tracking servo is automatically turned on when the disc is ejected, or in the case of a changer, when the disc is changed.

- 4.2 Focus Search:

Pressing the REPEAT key causes the optical pick-up to perform the focus search operation for as long as is necessary to achieve proper focus. Normal play mode is activated as soon as the correct focus is achieved. The word "REPEAT" appears on the display when the focus search mode is active.

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4.3 Error Codes (CDX-U8000, Unilink CD Changers Only):

Problems with the CD mechanism in the head unit or the changer will cause a corresponding error code to appear on the display in the following format:

"ERR (n1) (n2) (n3) (n4)"

The following table lists the various error codes:

n1	n2	n3	n4
1 = Servo Error	1 = Focus Error 2 = GFS 3 = Sled Time Out 4 = Sled 5 = T.O.C. Error	Disc #	
C = No Disc *			
D = High Temp			
F = MD Give Up*	1 = CBS (Come Back Search) 2 = DGS (Disc Get Search) 3 = Load 4 = Save 5 = Lever Close 6 = GTH 7 = Eject 8 = Magazine Set 9 = Eject By Force Δ = GTH (While Resetting) F = EEPROM Error		

* Only applicable to a CD Changer

4.4 Unilink CD Changer EEPROM Initialization:

Pressing the LIST key for more than 2 seconds will initialize the CD Changer EEPROM.

4.5 Unilink CD Changer EEPROM Check:

If normal communication to the CD changer EEPROM is not possible when the CD changer is selected, ERROR appears on the display.

5.0 Unilink CD Changer ERROR code memory:

Up to 16 error codes (as shown in the error code table in Section 4.3) can be read from the changer's EEPROM. The method for entering the error code check mode is different from the method of entering the service mode shown in Section 1.

To enter the error code check mode, first connect the Unilink CD changer to the CDX-U8000, and make sure the unit is not in the service mode (unit should be in the normal operation mode). Press "OFF", then press "7", then press "9", then

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press and hold the "10" key for more than 2 seconds. The error code check mode can be released by pressing the OFF key or the RESET button. "SHUF 3" appears on the display when the error code check mode is active.

- 5.1 To read the error codes, select the CD changer by pressing the CD key. Pressing the INTRO key will cause the error code to appear on the display. Additional error codes can be displayed by pressing the INTRO key successively.