

SONY

car stereo Service Bulletin No.76

Technical Department
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Model: CDX-A10/J10

Date: April 15, 1987

Subject: Access and Alternator Noise

Symptom:

(**)

1. Access Noise (Particular problem with car CD units)
"Sizzling Noise" is heard from speaker right after loading the disk or while next number searching in AMS mode.
2. Alternator Noise
The noise sounds like whistling and when the number of engine revolutions increases or decreases, the tone of the noise changes accordingly.

Note: Refer to Fig. 3 on page 3.

Check the following key points (a)~(c) first, and then implement the remedies (1)~(4).

- a. Supply power to all units (CDX-A10/J10, POWER AMP, DECK, etc.) from the same power source point in the car. This is quite effective to reduce the impedance in the power line between each unit, so the noise can be prevented.
- b. If the ground lead of each unit is connected to various points, the noise can easily be generated due to the complicated ground loop. Connect the ground leads of all units to the same place on the metal chassis of the car. Make sure the metal is clean, ie no paint or other coating.
- c. Isolate the chassis of units (CDX-A10/J10, POWER AMP, DECK, etc.) from car chassis electrically. This is very effective for prevention of the noise, especially for a Hi-gain AMP.

Remedy

1. Replace the ground leads of units with a thicker one and reconnect it firmly to the ground point. The ground lead extension (3m) has been attached after the following serial numbers.

	USA	CND
CDX-A10	No. 17301 and later	No. 10401 and later
CDX-J10	_____	_____

2. Confirm the soldering condition of the pinjack on the pinjack board. Connect the pinjack terminals and the patterns by jumper leads to ensure proper connections. (Refer to Fig. 1)

Applicable Serial Numbers:

	USA	CND
CDX-A10	No. 10001~17300	No. 10001~10400
CDX-J10		

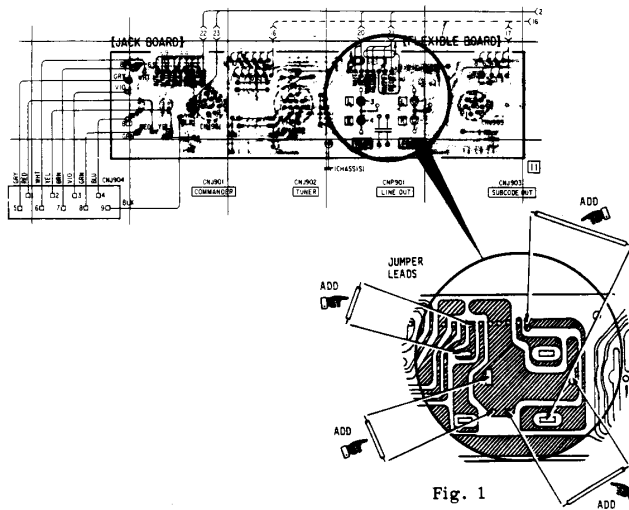


Fig. 1

3. In case the alternator noise is heard loudly, add choke coils in the power line as close as possible to the power source in order to effectively lessen the noise. (Refer to Fig. 2).

Description	Part Number
Choke Coil	X-3320-525-1

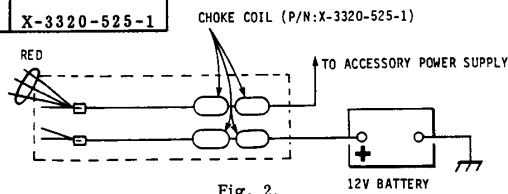
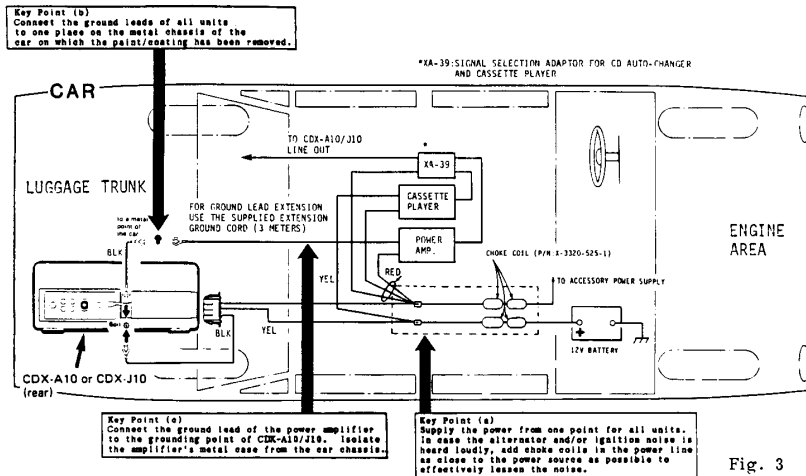


Fig. 2.

CDX-A10/J10

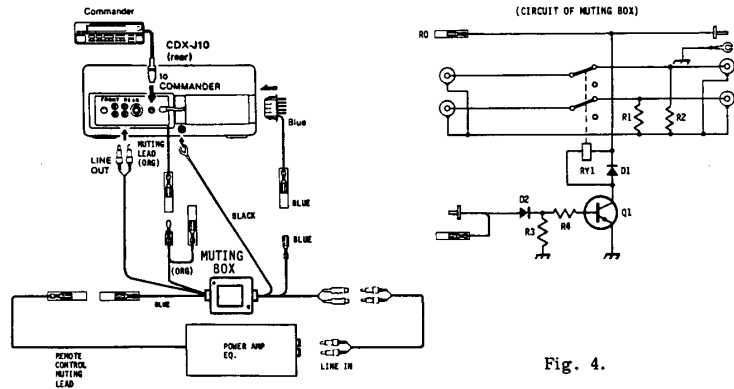
*Before mounting CDX-A10/J10, refer to the Fig. 3 below:

Alternator and/or ignition noise can be easily generated if the wiring for the units is not done properly. In order to minimize the noise, mount CDX-A10/J10 as shown below. Take note of the following three key points:



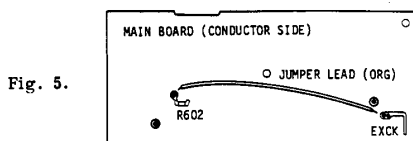
4. Add MUTING BOX (P/N: 1-558-847-11) for prevention of access noise. (Refer to the following procedure).

*If the units have no muting lead, attach a muting lead (enclosed in MUTING BOX) to the units.

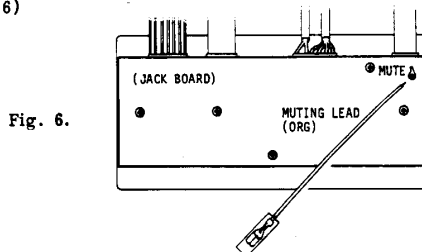


(Procedure for attachment of muting lead)

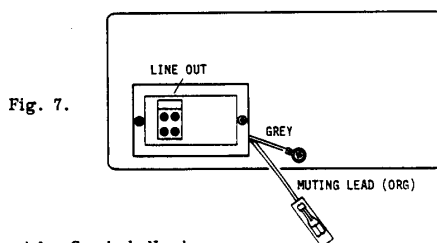
1. Remove the upper cabinet. (Remove 14 screws)
2. Remove the main block. (Refer to the inside label on the upper cabinet).
3. Remove the isolation sheet from the main board, and attach a jumper lead there. (Refer to Fig. 5)
*After procedure 3, attach the isolation sheet to its original position.



4. Remove the jack plate (Remove 5 screws), and attach the muting lead (ORG) to the jack board. (Refer to Fig. 6)



5. Reassemble the unit and arrange the muting lead and the grey lead to the outside of the unit through the jack plate. (Refer to Fig. 7)



Applicable Serial Numbers:

	USA	CND
CDX-A10	No. 10001~17300	No. 10001~10400
CDX-J10	_____	_____