

**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:** XM-701/1000

**No.** 125

**Subject:** Speed-Dependent Noise

**Date:** May 8, 1989

**Symptom:**  
(54)

In a combination of an XR car radio with an XM-701 or XM-1000 car amplifier, noise may be generated, the frequency of which changes the car's speed. The dynamo of vehicles equipped with advanced electronic devices produces noise signals on the power line.

**Solution:**

To avoid noise, consider the following points during installation:

- o Connect the car radio's ground wire (in dashboard) together with the amplifier's ground wire (either beneath dashboard or in rear trunk) to a common ground on the car chassis. Pay attention to the cross section of the ground wires (surface: > 6mm<sup>2</sup>).
- o Reposition the amplifier LF wires (cinch) away from the PLUS/MINUS wires of the amplifiers and the car radio, respectively. If the car battery is situated underneath the car's rear seat or in the rear trunk, take care not to position the LF wires parallel to the PLUS/MINUS battery wire.
- o If you intend to use the XM-1000 amplifier in the four-speaker mode, the LF wires should be twisted together.
- o Add the interference filter XA-50 to the car radio's PLUS wire.
- o Should noise still occur, add a 22,000 uF/40V capacitor (-40° to +85°) directly to the dynamo's PLUS power connector over a 20 A fuse.

(Continued)

Reference: Europe: CS-00988

PRINTED IN U.S.A.  
CSA-14489-1

Amplifier  
CSA-14

