

Service bulletin # 9601 - January 1996

Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Models: AVR10 / AVR-20 / AVR-20II Surround receivers

Subject: Intermittent Mute in FM or No FM

In the subject models, the Audio signals from the MPX decoder are muted under two conditions:

- 1) When signal strength is low
- 2) When the voltage output from the Center Tune Detect (CTD) circuit is not zero. The CTD circuit prevents the Tuner from stopping on the side bands of FM stations while in the SEEK mode. Adjustable Coil T803 determines the CTD frequency.

In the event you receive a unit from a consumer with a complaint "FM cuts out intermittently", perform the following steps:

- 1) Locate on the tuner PCB coil T803 and R809.
- 2) If the value of R809 is either 47 kOhm or 56 kOhm, solder a 56 kOhm resistor in parallel with R809.
(By adding this resistor, the bandwidth of the CTD circuit is increased)
- 3) Check and align the Center Tune Detect frequency as shown in the alignment instructions below.

Alignment	Equipment settings	Connect	Adjustment point	Adjust for
Center Tune	Tune to a strong FM station around the center of the FM band (98.1MHz)	DC mV meter across R809	T803	Less than 50 mV DC

harman/kardon

Service Bulletin

Service bulletin # 9601 -January 1996

Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Models:AVR-20/AVR-20II Surround receiver/amplifier
AVR-25/AVR-25II

Subject: Poor or intermittent reception of FM

In the event you receive a unit from a consumer with a complaint "FM cuts out intermittently" use the procedure listed below in addition to the procedure listed in the service manual for FM alignment.

To supplement the manual, for FM center tuning alignment follow these procedures;

AVR20/AVR20II

Alignment	Equipment settings	Adjust	Adjust For
Quadrature	Tune to a known strong FM station around center of the band (98.1MHz)	T803	0 VDC across R809, confirm by tuning to another strong station.

Repeat step 1 in service manual for minimum distortion. Repeat both steps again for optimum sensitivity.

**note: step #4 in AM IF states adjustment point VR802, should be VR801
step #2 in FM IF states adjustment point VR801, should be VR802*

AVR25/AVR25II

Alignment	Equipment settings	Adjust	Adjust For
Quadrature	Tune to a known strong FM station around center of the band (98.1MHz)	T903	0 VDC across R914, confirm by tuning to another strong station.

Repeat step 1 in service manual for minimum distortion. Repeat both steps again for optimum sensitivity.