

# Dictation Products Service Bulletin

**CSA-15**

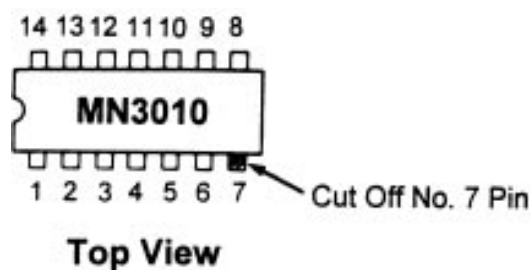
Sony Service Company - Technical Services  
A Division of Sony Electronics Inc.  
Sony Drive, Park Ridge, New Jersey 07656

**Model:** RD-7000**No.** 24**Subject:** Replacement BBD IC for Audio Board**Date:** November 30, 1994**Symptom:**  
(33)

Distorted or No Audio Recorded

**Solution:** The original IC is no longer available. Please use the replacement IC, MN3010. The following circuit change is required in order to use the replacement IC:

Cut off No. 7 pin of the replacement IC, MN3010.



Replace IC-113, IC-114, R1115, R1120, and R1127 at the same time as follows:

REF	FORMER		NEW	
	DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
IC-113, 114	MN3001	8-759-430-01	MN3010	9-919-587-03
R1115, 1120, 1127	47 KOHM 1/4 W	1-246-513-00	15 KOHM 1/4 W	1-249-460-11

Reverse C1110 polarity, making Q124 collector side plus.  
Reverse C1115 polarity, making Q126 collector side plus.  
Reverse C1117 polarity, making pin 9 of IC-114 side minus.

Perform the following adjustment per Service Manual "29. VOR Section."

- 29-1 Audio BBD DC Bias (1) Adjustment
- 29-2 Audio BBD DC Bias (2) Adjustment
- 29-3 Audio BBD Output Level and Record Amp Output Level Adjustment



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