

Sony Technology and Engineering Operation  
 Training and Publications  
 677 River Oaks Pkwy, San Jose, California 95134

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Model: **APR-5000 SERIES**

Serial No: **10,001 AND HIGHER**

Subject: **OVERBIAS WITH HIGH-COERCIVITY  
 TAPE FORMULATIONS AND/OR 1/2" HEAD BLOCKS**

**DESCRIPTION**

When 1/2" head assemblies are installed in APR-5000 Series Tape Machines with serial numbers 10,001 and higher, the tape machines may not be able to achieve proper overbias with certain tape formulations and/or 1/2" head blocks. Modify these machines as described in the following procedure.

**PARTS REQUIRED**

Part No.	Description	Qty.
T-9412-178-1	D44C9 Transistor	2
T-9412-179-1	D45C9 Transistor	2

**MODIFICATION PROCEDURE**

1. Turn tape machine OFF.
2. Remove card holder from front of card cage.

3. Remove CNL #1.
4. Remove heat sink plate from top of CNL #1.
5. Locate Q4 and Q5.
6. If Q4 and Q5 are 2SC1133-C and 2SB857-C respectively, replace Q4 with a D44C9 (T-9412-178-1) and replace Q5 with a D45C9 (T-9412-179-1).
7. Reinstall heat sink plate to CNL #1.
8. Reinstall CNL #1 into card cage.
9. Repeat step 8 for CNL #2.
10. Reinstall card holder to front of card cage.