

KENWOOD

ASB-1061

Service Bulletin

Amateur Radio Division

Subject: TM-733A PL Tone Bleed Through

Date: December 5, 2006

Symptom:

When transmitting a PL tone a "humming noise" might be heard coming from the internal speaker of the TM-733A. This is caused by a difference of potential between the tone generating circuit and the AF amplifier circuit.

Countermeasure:

This symptom is corrected by tying the ground connections in the AF amplifier and Tone generating circuits together.

Parts Required:

Qty	Description	Old Kenwood Part No.	New Kenwood Part No.
2	Screw	N87-2606-46	N87-2608-46
2	Star washers		N16-0026-46
1'	Small gauge hookup wire		

Procedure:

1. Disconnect the power cable, microphone and antenna's, etc.
2. Detach the front panel and set it aside.
3. Remove the top and bottom covers.
4. Remove the speaker and speaker mounting bracket
5. Disengage the plastic front panel from the main chassis.
6. Remove the two Phillips head screws that secure the TX/RX unit to the chassis.

Time required for this modification is 30 minutes or less.

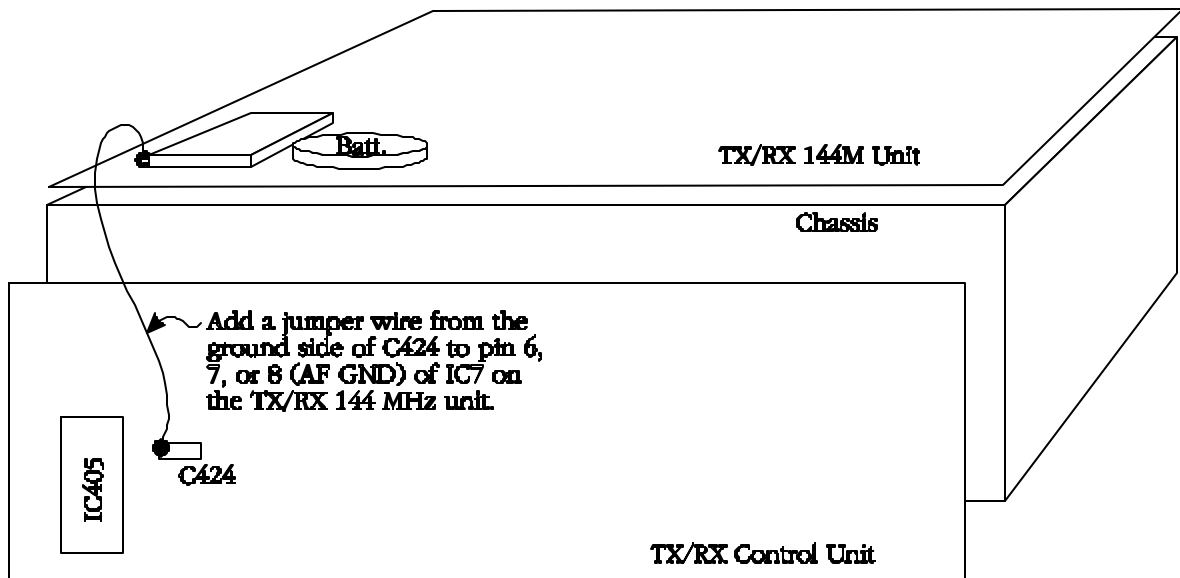
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7. Install the new screws and star washers.
8. Solder a jumper wire from the ground side of C424 and pin number 8 of IC7 as shown in the accompanying illustration.
9. Reverse steps 1 - 5 for reassembly.



Caution: This modification requires advanced surface mount soldering equipment that is rated for CMOS circuits. It also requires familiarity with advanced surface mount soldering techniques. If you do not have the proper equipment or knowledge do not attempt this modification yourself. Seek qualified assistance from your closest Kenwood Service Center (Long Beach, CA, or Virginia Beach, VA).

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