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## Service Tip

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***Problem:*** Poor response of AV Receiver to remote commands.

***Cause:*** Mismatch of IR frequency between Remote and Receiver.

***Affected Models:*** Some T760, T751, T761; not all units are affected.

***Solution:*** Change HTR-1 IR transmission frequency.

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Order part number: HTR-1 service kit

**NOTE:** The HTR-1 service kit contains: HTR-1 Service Tip Document, 9.8304 MHz crystal, and 2 pcs. 22pF capacitor - SMD type 0805 series. These are common parts that may also be readily available locally.

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1. Open the case of the HTR-1 by using only a thin but strong plastic screwdriver or similar tool (metallic tool will damage case). There are 5 tabs on each side of the remote that hold it together. Start at the top of the remote on either the right or left side. Locate the slot that runs along the side of the remote. By inserting and pressing the screwdriver down on an angle towards the bottom part of the case the tab should release. Work your way down the remote releasing the tabs and the case will open up. See Diagram 1 for reference.
2. With the remote opened, locate X1, C2, and C3 . X1 is a ceramic resonator type and should be replaced with a crystal 9.8304 MHz as shown in Diagram 2. Capacitors C2 and C3 are now required for proper operation. Install capacitors C2 and C3, 22pF (surface mount type 0805 series) as shown in diagram 2.
3. Hot glue X1 crystal to the PC board for stability. Reassemble.
4. Finally, test remote with receiver using the input functions as a test(eg. CD, VIDEO1, VIDEO2 ...etc.) .

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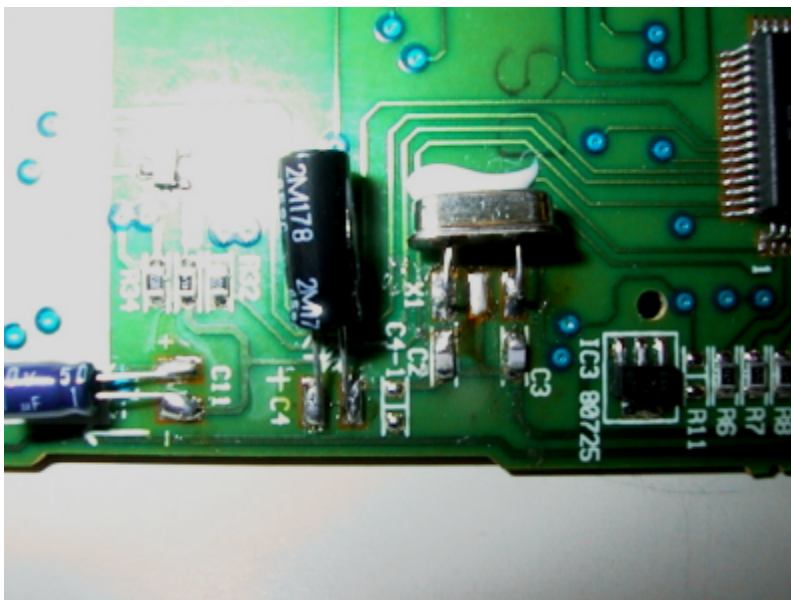
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Diagram 1



Diagram 2



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