

## TS-890S

### Circuit update for antenna tuner failure.

A TS-890S with confirmed Antenna Tuner Unit (ATU) failure will need to be serviced at the Kenwood authorized service center and a circuit update will be applied to reduce any possible reoccurrence of the ATU failure. This circuit update is not a recall and is not necessary for units that have not had any ATU failures. Only a few isolated occurrences have been noted for this failure and only units with confirmed ATU failure should have this update applied.

If a user of the TS-890S has encountered a failure of the Antenna Tuner, please ship your TS-890S to the authorized service center for repair. Freight charges to the service center will be paid by the user and Kenwood will pay the return freight and perform the repairs at no charge as a courtesy repair, even if the warranty is expired.

For users that have already repaired their ATU by themselves and wish to perform this update can follow these instructions to do the circuit update. No additional parts are required and only 10 chip capacitors are being deleted from the Antenna Tuner Unit circuit located on the Final Unit PCB (bottom side).

When a TS-890S Antenna Tuner circuit is repaired by replacing the relay control transistors part number DTD113ZU (mainly Q510, Q511, Q512), please also remove the chip capacitors as follows to prevent recurrence of the ATU failure.

*Kenwood does not recommend users of the TS-890S attempt any service of its internal components. Only qualified technicians should attempt any internal repairs. Please ship your TS-890S to a Kenwood authorized service center for any needed repairs. Kenwood will not be liable for any damage or injury caused by users attempting to service the internal parts of the TS-890S. Anyone attempting to service the internal parts of the TS-890S will do so at their own risk of causing further damage to the TS-890S or personal injury caused from the service attempt. Any damage to the TS-890S that occurred while attempting this update will not be covered by the factory warranty or the courtesy repair.*

#### (Instructions)

1. Remove all power sources from TS-890 and all external connections from rear and front panels
2. Remove upper cabinet lid and RF shield to expose Final/AT Unit PCB
3. Remove Final/AT unit PCB from the chassis to expose the circuit update area on the bottom side of the PCB
4. Remove 10 small chip capacitors shown in the following picture
5. Suggest using 2 soldering irons to avoid damage to the PCB. First apply solder on both sides of each capacitor then use both soldering irons at the same time to heat the solder points of the capacitor and move it from its location
6. Caution: If the capacitor is forcibly removed and the circuit trace is torn a repair will be required or the ATU circuit will not work
7. Check area is clear of any damage and remove any solder bridges / balls
8. Re-assemble unit
9. Test ATU is operational on all bands

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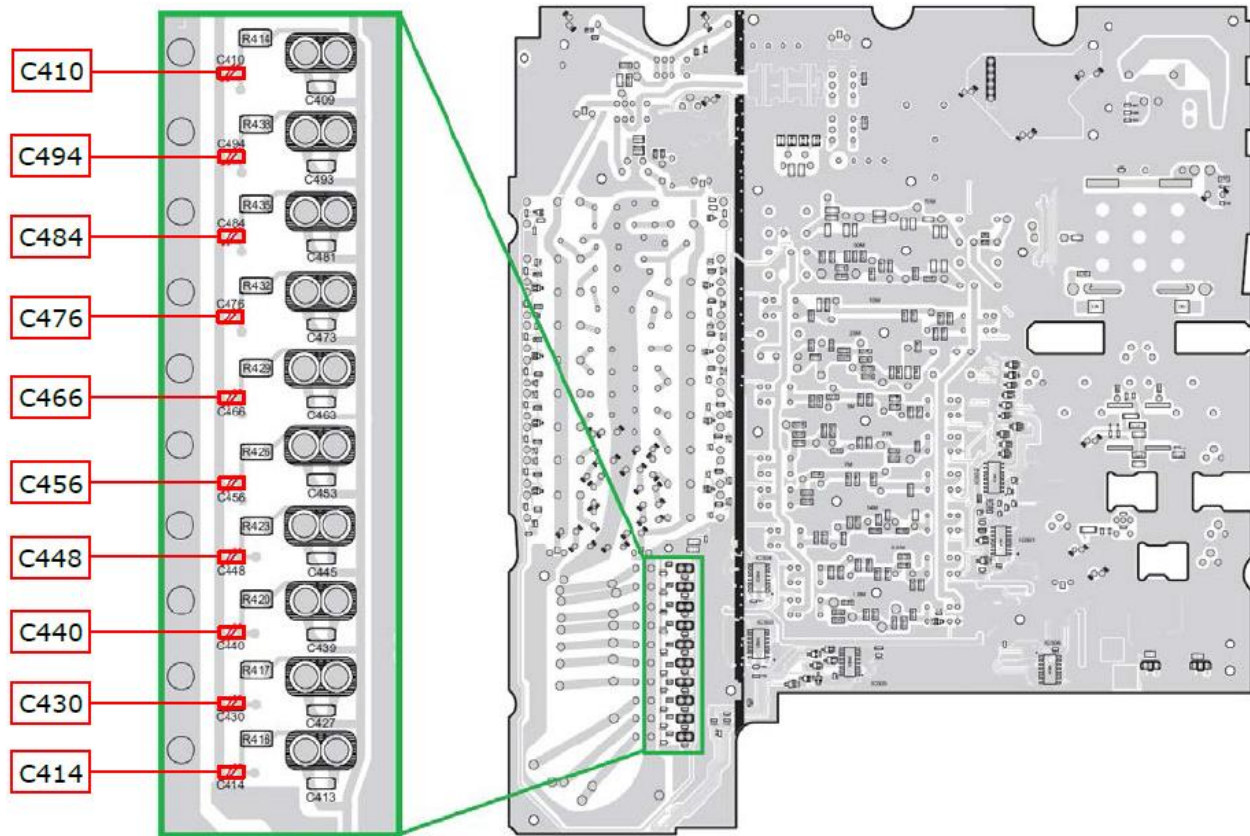
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## SERVICE BULLETIN ASB-0167

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Remove all the following 10 chip capacitors (CK73GBB1H103K) from bottom side of Final/AT unit PCB



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