

# KENWOOD

ASB-1059

## Service Bulletin

Amateur Radio Division

**Subject:** TS-450S/690S Noisy Encoder  
2006

**Date:** December 5,

### Symptom:

When tuning the Main Encoder of the TS-450S/690S with bare hands you may encounter a “scratching” noise in the speaker if an antenna with a high SWR is used. If gloves are worn no problem is encountered. This occurs because the shaft of the encoder is not grounded.

### Countermeasure:

Replace the Main Encoder with one that has a grounded shaft.

### Parts Required:

Qty	Description	Part No.
1	Main encoder	W02-1836-05
2	Mounting Screws	N90-3006-46

Note: You must use the new mounting screws listed above with the replacement encoder.