

Gain Low? RG

TS530 & TS830 RECEIVER GAIN LOW

Mandatory Reading:
TS-830 Survival Guide, edited by DL9AI
www.wb4hfn.com/kenwood/articles

CAUTION !!! HIGH VOLTAGE...

Put Rcvr. to:
Band = 40
Xtal Osc. = ON
Antenna = NO
RF Attenuator = OFF
RF Gain = Full CW
Peak Preselector

S Meter >S7 ?

Clean Band Switch Contact with DeOxit D5. Use cotton swab as applicator.

Optional:
Perform alignment or Call for help..

Good Job...

RL-1 on Audio board is an Omron 4PDT. One contact (RB1) controls bias voltage for receiver RF amp & 9vdc (RLR) to turn on Q5 which keys ground path for sources of RF amp, RF buffer amp and RX mixer mosfets. RB1 should be approx. 1.0vdc and RLR approx 9.0vdc.

Toggle SEND switch several times?

Smeter signal better?

Remove RL1 antenna relay from the underside near RF section. Remove plastic top & clean contacts with DeOxit cleaner. Reinstall RL1.

Tap flat pack relay RL1 on the Audio board. If gain changes, replace RL1.

1. Spray DeOxit cleaner inside X.VTER socket on rear panel.
2. Insert a DIN plug in in/out of connector several times.
3. Blow out excess.

Locate switch mounted to X.VTER socket and spray inside with DeOxit. Blow out excess.

Tap flat pack relay RL1 on the Audio board. If gain changes, replace RL1.

Xtal Osc signal strength now OK?

Remove top cover of RF cage. Inspect large gague wire going to ANT jack. Resolder wire if suspect.

It's not uncommon to have a bad solder point here.

Signal Level OK?

Put Rcvr to:
Band = 40
Xtal Osc. = OFF
Antenna = YES
RF Attenuator = OFF
RF Gain = Full CW
Peak Preselector

Receive signal strength now OK?

Remove RL1 antenna relay from the underside near RF section. Remove plastic top & clean contacts with DeOxit cleaner. Reinstall RL1.

Receive signal strength now OK?

L 41 coil winding possibly open. - CALL FOR HELP

Optional:
Perform alignment - CALL FOR HELP