Adjustment mode operation procedure

There is only one way to adjust the settings.
The only way to do so is with the adjustment Mode menu.
This menu has workt from 00 to 126.

TAKE CARE WITH IT USE AT YOUR OWN RISK!!!!!!!!!!!!!!!!!!!!

Adjustment mode:

The TS 2000 can be adjusted manually (by turning a coil, trimmer, etc
or by setting the service adjustment mode (simply referred to as the
adjustment mode below)

adjustments items are shown in menu No: 00 to 126.
and all data are saved in the EEPROM (x53-391: IC7) :-)

To enter adjustment mode, the user firmware in the main unit must be
rewritten with adjustment firmware (The user firmware is the factory
setting)

MAKE SURE YOU HAVE THE USER FIRMWARE AS A BACK UP!!!!!!!!!!!!!!!!!!!!
(we do not think we have to explane to you how to get the firmware
and how to upload it in the set in case of a crash if we have to do
that please do not start this procedure at all.!!!!!!!!!!!!!!!)

Oke let's go to step 2.
main way (frame) to do the job, only the main things are mentioned and
the explanation will be followed later on.

1) Checksum confirmation.
Switch the transceiver on while pressing and hold N.R.
and MIC/CAR keys.

2)Preparation of uploading data.
1. Access menu No. 56 and select 9600 bps, then switch the
transceiver OFF.
2. Back up the user data in the transceiver (menu configuration and
Memory channel daqta)
Run the programming software (W05-0855-00), then select "Menu/MRch
read from RADIO"
Name the file and save it somewhere where you can find it easily.
3)Uploading the the adjustment firmware
1.Turn the switch (S1) ON in TX-RX1 unit (X57-605 A).
2.Upload the adjustment firmware, using " adjust firmware write menu.
3.Turn the switch (S1) off in TX-RX1 unit (x57-605 A).
4)Turn the tranceiver ON while pressing A=B key to perform the full
reset.

4. Adjustments

5. Uploading the user firmware.
1.TURN THE SWITCH (S1) on IN TX-RX1 UNIT (X57-605 a).
2.Upload the user firmware, using"user firmware write" menu.
3.Turn the switch (S1) OFF in Tx-Rx1 unit.
4.Turn the transceiver ON while pressing A=B key to perform the full reset.

6. Checsum confirmation
Switch the transceiver on while pressing and hold N.R. and mic/car keys.
If the user firmware has not changed, the checsum is the same as the value in step 1.
If the user firmware has been updated the checsum should match the new checksum.

7.Uploading the user firmware.
1. Turn the transceiver on while pressing a=b key to perform the full reset.
2. Run the programming software (w05-0855-00), then select menu/MRch Write to the radio.

PROCEDURE FOR WRITING ADJUSTMENT FIRMWARE (FOR BOTH USER AND ADJUSTMENT FIRMWARE)

1. REMOVE THE LOWER CASE AND SET THE SLIDE SWITCH (S1) of the TX-RX 1 unit (x57-605A) to on (move the switch toward the front)

2. Connect the RS 232 C port of the personal computer with the COM port of the main unit with a D-SUB (9-pin) straight cable (female-female) this is the same cable as you use for all other software comminication with the set.

3.Connect the external power suply put it ON The main unit does not turn on any indicators, but it is ready to rewrite firmware.
Do not operate the power switch on the main unit!!!!!

4. write firmware using the writing software. there is a help file with the software!!

5.After writing the the firmware turn the external power suply OFF and remove the rs 232 cable.

6. Set the slide switch (you know now where it is??? :-)
(s1) to off (move the4 switch toward the rear)

7.Turn the external power suply ON

8.Turn the main unit ON and confirm that the indicator lights.
Then perform all reset (hold down A=B key and press the power key and
confirm that the initial state is displayed.

9. After adjustment rewrite adjustment software back to user firmware
using the writing software.

10.After rewriting user software, check the checsum (hold down the
N.R. and MIC/CAR keys and press the POWER key. then Menu No 125.
Then, perform all reset.

Notes
When adjustment software is loaded and the main unit is turned ON, A
beep sounds to indicate the adjustment mode. THIS DOES NOT INDICATE A
FAILURE.
Whenany key (exept PF key is pressed after a frequency is displayed,
the beep stops.

Adjustment mode operation procedure.

1. Start the adjustment mode.
Hold down th NR an mic/car keys and press the Power key.
The adjustment mode is set and a menu number is displayed below the
M.CH on the main band side (left) of the display.

2. Select adjustment mode menu number.
Turn the MULTI CH knob to change the menu No.

3. Change adjustment mode setting data.
Setting data can be changed with + or - key.

4.Write adjustment mode data.
Press + or - key on the main unit op UP or DOWN key on the microphone
on menu 124. witch will wrhite the eeprom.

5.Cancel adjustment Mode.
Press the CRL key to return to the normal VFO mode.

When the power is turned OFF in the middle in the adjustent mode, it
is canceled.