

## TYT MD-9600 Notes

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**New Radio:** Use the CPS MD9600 software to read the initial transceiver configuration. Save that configuration for future reference. This provides you a safe recovery configuration file.

### General Settings:

- Disable All Tones: NO – You will likely want the DMR channel beep when you can start talking.
- Talk Permit Tone: DIGITAL – Not needed for analog channels
- Scan Hang Times: 5000 – Not critical. This is common hang time in ham transceivers.
- Radio Name: Your call sign
- Radio ID: Your official assigned DMR ID - <https://www.radioid.net>
- Channels Hang Time: 1000 delay from end of received transmission until you can transmit.
- Group Call Match: Leave checked. Unchecking places radio in promiscuous mode and will receive all talk groups on the current repeater/time slot. Can be set with front panel controls.
- Public Zone: Unchecking allows separate zones for upper and lower channels. Upper display is always A channels, lower is B.

### Digital Contacts:

- Digital Contact table contains both Talk Group ID's and User IDs.
- User ID's are entered with name/call sign in the Contact Name field and User ID number in Call ID field. Call type should be Private Call for User ID's.
- The best bet for editing the Digital Contacts table is using Excel. Export the table, edit it, and import the results. The previous contents are overwritten.

### Digital RX Group Call:

- A Digital RX Group list allows a channel to receive more than one Talk Group. This is not the same as scanning as only listed Talk Groups on the current repeater and Time Slot may be received.

### Zone Information:

- Zones are a fundamental DMR programming concept and channels are accessible only as members of a zone.
- A Zone in commercial DMR use apparently refers to a city or district. Hams typically use Zones for individual repeaters, though there other convenient uses.
- MD-9600 zones have A & B sides. A members show up on the upper display, B the lower. This true even with Public Zone (split zones A & B).
- Zones may contain a mix of DMR and Analog repeaters, multiple of each if desired.

**Scan List:**

- Channel Member lists may contain random channels, scattered across different zones if desired.
- TX Designated Channel should normally be set to “Selected” channel otherwise transmit may occur on a channel not displayed.

**Channel Information:**

- RX REF Frequency and TX Ref Frequency default to Low, they should be changed to Medium unless later testing determines otherwise.
- Admit Criteria for DMR repeater Talk Groups should be “Color Code”, simplex should be “Always”.
- In Call Criteria should be “Follow Admit Criteria” except simplex where “Always” is appropriate.

**General Notes:**

- The MD-9600 is a competent DMR and Analog mobile transceiver. It has most of the features desired for ham operation. Its display provides limited but adequate info.
- The MD-9600 is effectively scanning between A (upper) and B (lower) channel when in receive. Only one can be received at a time. This allows the wrong channel to take over the receiver during gaps in a conversation. The channel with the A or D in front of it is the main channel. The other is called the sub-channel. The sub-channel may be toggled on and off by pressing and holding the ENT button. A speaker symbol with an X indicates the channel is off.
- Scanning is not fast so parts of QSOs are missed.
- Promiscuous (all talk groups on a time slot) monitoring is available but activation and deactivation is a multi step menu activity.
- External speaker output is quite bassy plus it is overly loud. Placing a non-polarized 10 microfarad capacitor and 50 Ohm resistor in series with the speaker lead can reduce this.