6. Problems and possible solutions

- Nothing happens:
  - Check power supply. Test with another (USB) cable
  - Remove the SD card and insert it again
- at start, it beeps a few times (long long long), the red LED flashes and everything repeats again
  - Unplug the RTL-SDR and connect it again
    - if the problem persists, unplug and reconnect power
- New results aren't written, it is defective
  - exchange the storage medium, recommended is an SD card - used through an USB adapter
    - format with the *Flash Friendly File System* to extend its lifetime: `scanner_format_f2fs.sh`
- Raspberry Pi is no longer accessible after pressing the reboot knob
  - sometimes the system hangs on reboot. Remove power and reconnect
- Bad reception quality
  - check the antenna connection and plug as well as the location of the antenna!
  - is the *gain* set correctly?
  - metallized vehicle window pane?
- the scanner freezes after a while
  - apparently, the RTL dongle is not particularly stable
  - automatic reboot with the setting `FMLIST_SCAN_DEAD_REBOOT = "1"`
    - if necessary, also the setting FMLIST_SCAN_DEAD_TIME reduce, e.g. to 240.
- Stations are not recognized or decoded. There can be various reasons for this. The best way to assess the specific cause is based on a recording.
  - utilities for recording are `recWFMchunk.sh` and `recDAB.sh`. Please use these to create and provide recordings of 10 to 30 seconds.
- the buzzer is too loud and may be annoying too often
  - configure the cases, which should be signalled - or not.
  - the buzzer's hole can be partially or completely glued with an adhesive tape
  - if you don't want to hear anything, it is simple to pull off one of the 2 pins
    - pay attention to the polarity when re-attaching: (+) symbol on the piezo
- after disconnecting the Ethernet cable, the WiFi SSH / PuTTY session also freezes
  - that is a known issue. do not use the Ethernet cable for WiFi operation
- the Raspberry Pi reboots quite often
  - check the power supply unit or try another sufficiently dimensioned power supply

For other or persistent problems, please check the mailing list first: https://groups.io/g/fmlist-scanner
Register and mail to fmlist-scanner@groups.io

This list will also be used to provide further information about new versions / updates or questions / answers on your part in the future. Additional photos, links and wiki pages are also available via the mailing list website.

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