

164 Aime Vincent, Vaudreuil, Qc, Canada, J7V 5V5
Phone: (450) 424-8150, Fax: (450) 424-9262
website: rftel.com e-mail: info@rftel.com

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Part affected: Microprocessor on RT9000 controller board
Products affected RT9000 150 - 500MHz
At issue: Software upgrade version 40 and higher

A new software version 40 has been released for the above radio models. Commencing with version 40, the following additional features are available which are described in more detail below.

- 1) Link Polling and battery status monitoring
- 2) In power save mode radio goes to sleep mode if phone is left off hook
- 3) New more robust protocol more resistant to interference
- 4) Selectable ring frequency 20Hz / 25Hz
- 5) Partyline repeater operation

1) Link polling:

With link polling enabled, the CO unit sends a status request to the Subscriber unit and, if the Sub unit does not respond, the red "fault" LED on the CO will flash. This provides for a continuous link integrity indication at the CO unit and allows service personnel to assess a potential link problem before travelling to the less accessible remote Subscriber. Each time the link is polled, the battery voltage status is also transmitted by the Sub unit. Please note that the battery voltage status indication at the CO is only available with the optional alarm board. The alarm board has two relays providing dry contacts for link failure and Subscriber battery low.

Link polling is performed in the following manner.

- a) On powering up the CO unit, it will send a service request to the Subscriber unit. If the Subscriber unit answers the request, the signal strength LED's at the CO will flash briefly indicating that the Sub has replied. If the Subscriber unit does not answer, the red "fault" LED on the CO will start to flash, indicating that a connection was not established.
- b) During a landline call to the Subscriber unit, the CO expects to receive a reply from the Sub unit at the end of each ring. Again, this can be confirmed by the brief flashing of the signal strength LED's at the CO after each ring. If the Sub unit fails to respond to a ring, the fault LED at the CO will flash. If the Sub unit responds again to subsequent rings, the "fault" LED will go off.
- c) During the idle state of the system, the CO will automatically poll the Sub unit every 3 hours. If the Sub fails to respond to a poll, the red "fault" LED at the C.O. will flash. If subsequent polls receive a response, the "fault" LED goes off.

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