

# Sierra Radio Systems Repeater Controller

## User Macro Commands

Code Version srs0100a  
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The following table describes the commands which invoke macros, and the default commands executed by the corresponding macros. The macro contents can be changed using the C130—C133 command. The names of the commands can be changed by editing the command table (commands C10A—C10B). This is quite complex to do manually via DTMF and should normally be done using the configurator program from a PC. Command blocking conditions are normally [pl], except when something else is shown in brackets in the comment field. See the SRSC Command List document for details.

Code	Macro #	Operation	Default behavior, Comments
800 810 820 830 840 850 860 870	50 51 52 53 54 55 56 57	Link off	Executes C330n, where n is the link number [ple]
801 811 821 831 841 851 861 871	58 59 60 61 62 63 64 65	Link on	Executes C331n, where n is the link number
80A 81A 82A 83A 84A 85A 86A 87A	66 67 68 69 70 71 72 73	Link status	Executes C339n, where n is the link number [pe]
900	74	Site normal	Executes C300
920	75	Send CW ID	Executes C2A0C312
950/951	76/77	PL off/on	Executes C350/C351 to switch between COR and

			PL required mode on the repeater receive
95A	78	PL status	Executes C352
960/961	79/80	Link delay off/on	Executes C334/C335 to disable or enable link carrier hang delay at the end of a transmission. (Turn this off when using a simplex transmitter at a remote site, such as a remote base, or IRLP).
990/991	81/82	Repeater off/on	Executes C320/C321 to turn the repeater function off or on. Acts on the port receiving the command if it is a repeater port, or on the lowest numbered repeater port if the port receiving the command is a link port.
99A	83	Repeater status	Executes C324

In addition, macros 49 and 48 are called by the site normal and remote base timeouts, respectively. Macro 49 is predefined to execute command C300, and macro 48 is predefined to execute command C382. By default, the site normal timeout is disabled, and the remote base timeout is set to 2 hours. These values can be changed by writing to eeprom parameter storage at addresses 700 and 702 (see the configuration spreadsheet for details). Macro 47 is called at the end of boot-up initialization. It is empty by default. The normal initialization puts the controller into a site normal configuration, so this is not needed except in unusual circumstances that cannot be handled by adjusting optional behavior of the C300 command.

To edit the macro command table which defines the command names above and which macros they point to, see the command table editing procedure document and the m command table addresses spreadsheet. For this software version and forward, command table entries during editing are at eeprom address  $41505+9*(\text{macro number})$ . The Windows configuration software hides the complexity behind this procedure and is recommended for making any extensive changes.

This highest pre-defined command on this list is 128. Additional commands may be added to this table by extending the table, starting with macro number 129.