RLC-2 Manual Changes

This file contains the changes made to the RLC-2 manual between 1-26-96 and 1-31-96, between RLC2V41B.PDF and RL2V414.PDF.

RLC-2 Software Version 4.14

Link Communications Inc.
P.O. Box 1071
Sidney, MT 59270-1071

012: Program a Receiver's Access Mode

This command allows the user to set the receiver's access mode.

<012> *x y*

Parameters:

X is the receiver that the access mode is being changed. This number ranges from 1..5

Y is the access mode

Access Modes Number	Access Mode Description
0	No Access from the receiver
1	COR Access
2	PL Access
3	COR and PL Access
4	COR or PL Access

Defaults:

All ports default to COR (1) access

Error Codes:

E1 - Invalid port. Port must range from 1..5
E2 - Invalid access mode. Modes are listed above.

(System wide errors are listed in front of the manual)

Example 1:

I want port 1 to require both COR and PL for access.

012 1 3 D or unkey

Response:

"Port is <Access Mode>"

013: Checking Access Modes

This command checks the settings of the ports access modes.

<013> *x*

Parameters:
X is the port number

Response:

Access Modes Number	Access Mode Description
0	No Access from the receiver
1	COR Access
2	PL Access
3	COR and PL Access
4	COR or PL Access

Defaults:
All ports default to COR (1) access

Error Codes:
E1 - Invalid port. Port must range from 1..5
(System wide errors are listed in front of the manual)

Example 1:
I am getting noise on my port 3. I need to see if it is still in COR and PL mode.

013 3 D or unkey

Response:
"Port is <Access Mode>"

018: Receiver Active - Inactive Control Command Execution

This command allows the user to enable/disable the execution of commands when the receiver goes from inactive. If this command is disabled for a port, the user must force the execution of the command in order for it to be accepted. When this command is enabled on a port, simply the receiver drop can execute a command

<div align="center">

<018> *x y*

</div>

Parameters:
X is the port. This number ranges from 1..5
Y is the control information.
> 1 - Enables Receiver drop to execute a command
> 0 - Disables Receiver drop to execute a command

Defaults:
All ports allow receiver drop to execute a command sequence

Error Codes:
E1 - Invalid port. Port must range from 1..5
E2 - Invalid access mode. Modes are listed above.
> (System wide errors are listed in front of the manual)

Example 1:
I need to keep users on the repeater from executing commands when they DTMF page other users.

<div align="center">

018 1 0 D or unkey

</div>

Response:
"Port is<ON/OFF>"

019: Check Receiver Active - Inactive Command Execution

This command checks the settings of Command 018.

<009> x wait —

$$<019>\ x$$

Parameters:
X is the port. This number ranges from 1..5

Defaults:
All ports allow receiver drop to execute a command sequence

Error Codes:
E1 - Invalid port. Port must range from 1..5
                    (System wide errors are listed in front of the manual)

Example 1:
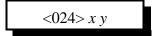I want to make sure port 1 does not execute commands with a receiver drop

019 1 D or unkey

Response:
"Port is <ON/OFF>"

024: Controls a Port's COR/PL Polarity

This command allows the user to customize the COR and PL levels. Every radio differs in how the COR and PL levels are present when the receiver is active. This command allows either active high or active low COR and PL signals to be accepted. If your receiver is active high and you need to change the COR/PL polarity and you do not have a serial terminal to change it for you, then you need to fake the COR input by tying the COR input to ground while entering Command 024. Make sure you have disconnected the ports COR input before forcing the COR to ground.

<div align="center">

`<024> x y`

</div>

Parameters:
X is the port. This number ranges from 1..5
Y is the COR and PL mode

COR and PL Mode	COR and PL Levels
0	Both COR and PL active Low
1	COR Active Low, PL active High
2	COR Active High, PL active Low
3	COR and PL active High

Defaults:
Both COR and PL are active Low

Notes:
•   When a receiver is not connected to the controller, the COR and PL levels on that port must be set to active low (Mode 0)

Error Codes:
E1 - Invalid port selected
                        (System wide errors are listed in front of the manual)

Example 1:
I want to connect a GE Master II receiver to my repeater port. This receiver has an active high COR output.

<div align="center">

`024 1 1 D or unkey`

</div>

Response:
"Port is <Mode>"

025: Interrogates a Port's COR/PL Polarity

This command checks the setting of Command 025

$$<025> x$$

Parameters:
X is the port. This number ranges from 1..5

COR and PL Mode	COR and PL Levels
0	Both COR and PL active Low
1	COR Active High, PL active Low
2	COR Active Low, PL active High
3	COR and PL active High

Defaults:
Both COR and PL are active Low

Notes:
• When a receiver is not connected to the controller, the COR and PL levels on that port must be set to active low (Mode 0)

Error Codes:
E1 - Invalid port selected
                    (System wide errors are listed in front of the manual)

Example 1:
I want to check port 3's COR and PL polarity before I connect a new receiver.

$$025 \ 3 \ D \text{ or unkey}$$

Response:
"Port is <Mode>"

Bill of Materials

Item	Quantity	Reference	Part
1	25	C9,C10,C11,C12,C13,C14, C15,C16,C17,C18,C19,C20, C21,C22,C23,C24,C42,C43, C49,C87,C88,C89,C90,C91, C92	470pF
2	3	C25,C28,C30	4.7uF
3	5	C26,C27,C29,C93,C98	100pF
4	36	C31,C32,C33,C34,C35,C36, C37,C38,C39,C40,C41,C60, C61,C62,C63,C64,C65,C66, C67,C68,C69,C70,C71,C72, C73,C74,C75,C76,C77,C78, C81,C82,C94,C95,C100,C101	0.1uF
5	2	C44,C45	33pF
6	3	C46,C52,C53	10uF
7	2	C47,C48	22pF
8	1	C50	220uF
9	4	C51,C54,C55,C59	1uF
10	8 .	C56,C57,C58,C83,C84,C85, C86,C99	0.01uF
11	2	C79,C80	100uF
12	1	C96	2000pF
13	1	C97	68pF
14	6	D1,D2,D3,D4,D5,D24	LED
15	11 .	D6,D7,D8,D9,D26,D27,D28, D29,D30,D31,D32	1N750A
16	3	D18,D19,D20	1N4148
17	3	D21,D22,D23	1N5256B
18	1	D25	1N4001
19	1	F1	500mA Fuse
20	1	JP1	10 PIN Female Test Bus