# V.3225/V.3225L Manual

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Option Selection Chapter 3

GENERAL

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operation and option selection.

appropriate for further information on modem consult the different sections of this chapter as

Users of the non-LCD model are encouraged to able by pushbutton in response to the LCD. Note: This chapter contains the options avail-

The modem is shipped configured to factory option set #1 (see Appendix D). Because of the number of

There are four factory option sets to choose from.

E

a custom configuration.

A user programmed option set is available for storing

option changes to fit into the network.

possible applications, most modems require some

STRAP OPTION SELECTION

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controls, AT commands, and hardware option straps Modem configuration is determined by front panel for access to the option straps. located on the pc board. Remove the modem cover

to be changed. Note: Normally pc board straps will not have

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### Option Selection

Option Selection

## Removing Cover

ensures an electrical shock hazard is not prelevels are not exposed, disconnecting power ing the cover. Although dangerous voltage Warning: Disconnect AC power before remov-

on the unit rear edges. Repeat this procedure with the remaining three latch slots. pushing the cover from the chassis with your fingers lock prong from the lock clip. Assist removal by as illustrated in Figure 3-1. This will disengage the driver but lightly pry the handle away from the unit bottom rear latch slots. DO NOT PUSH the screwmedium size flat screwdriver blade in one of the Place the unit on its side on a flat surface. Insert a

grooves, and front lock tabs. Press the cover in place until the lock clips engage the lock prongs. To replace the cover align the lock clips, rear guide

Figure 3-3 shows strap locations. Figure 3-2 shows typical strap configurations and



Cover Removal Figure 3-I

Chast Bottom





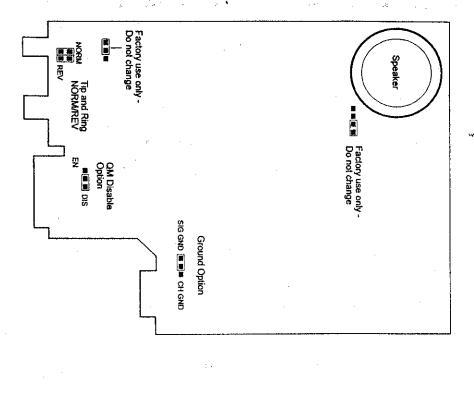


Option Strap Configuration Figure 3-2

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Strap Locations Figure 3-3

HARDWARE

Option Selection

STRAPS

Polarity

If a dial tone is detected after dialing, reverse these Some telephones are tip and ring polarity sensitive.

two straps.

Tip and Ring

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RP 7

\*Normal tip and ring connection

Reverse tip and ring connection

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Strap

ground. If interference exists, isolate signal ground Signal ground is normally connected to chassis

from chassis ground.

SIG GND | CH GND

\*Signal ground connected to chassis ground selected

**Ground Option** 

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QM Disable Option When enabled, the Quality Monitor (QM) output is

4 and Table 2-1 for more QM information.

EN DIS

abled disconnects the QM output. Refer to Chapter connected to the EIA-232 (pin 11) interface. Dis-

SELECTION LCD OPTION

\*QM output not connected to EIA-232 interface

through the front panel LCD. The LCD also gives The modem options can be observed or changed modem status.

\* factory setting

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#### MAIN MENU

sequence as presented here: tions. They are described in this chapter in the same There are six main menus that support modem opera-

- MODEM STATE
- DIAL STORED NUMBER
- DISPLAY STATUS
- SELECT TEST
- MODIFY CONFIGURATION
- CHANGE PHONE NUMBERS

and S-registers as a cross reference. umns in the table show the associated AT commands items, and options (Table 3-1). The two right col-Each main menu is supported by various submenus,

## Menu Sequence

options have been scrolled through, the menu will return to the submenu header. item column; if an option setting is selected or if all Main menus consist of six displays which allow access to submenus. Each submenu has a submenu

automatically scrolls through the menu. If the NO pushbutton is pressed and held, the modem

Note: Main Menu I does not scroll. The disthemselves option selections. results of other selected options and are not ing mode or status. These displays are the plays in Main Menu 1 show the current operat-

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across the columns. 3-1 and pressing YES advances horizontally NO scrolls vertically down the columns in Table While operating in the option menu, pressing



	MAIN MENU	
V.32 9600 IDLE	LCD MESSAGES	Menu Options
(Press NO to advance to MAIN 2)	+	

Table 3-1

Option Selection

٦	MAIN MENT		SECRETE		
T	MENO	M GD 3	CCD MESSAGES		
-z->z		V.32 9600 FIXE V.32 9600 TALK V.32 9600 TRAINING V.32 9600 ONLINE V.32 9600 RINGING V.32 9600 IN TEST	T & "R	(Press NO to advance to MAIN 2)	Ce 10 A
	MAIN MENU	SUBMENU	SUBMENU	OPTION	Ç≱
\2-> <u>₹</u>	DIAL STORED NUMBER?		DIAL #1-9	YES, NO	DSn (n-1-9)
2->2	DISPLAY STATUS? (status only)	DTE SIGNALS	DTR ONOFF DSR ONOFF OH ONOFF RI ONOFF	DISPLAYS STATUS	
0		MNP LEVEL	NEGOTIATING MNP LEVEL MNP LEVEL 2, 3, 4, OR 5 CONNECTION	DISPLAYS STATUS	
		CARRIER DESCRIPTIONS	RECEIVE LEVEL NEAR END ECHO LEVEL FAR END ECHO LEVEL FAR END ECHO DELAY ESTIMATED DELAY TRANSLATION	DISPLAYS STATUS	
z-> <u>z</u>	SELECT TEST?		LOCAL ANALOG	INITIATE, EXIT	&T1
4 2		(4-wire only)	REMOTE ANALOG	INITIATE, EXIT	&18 &T2
			RAL WITH TP	INITIATE, EXIT	6L%
				INITIATE, EXIT	813
			REMOTE DIGITAL	INITIATE, EXIT	&T6
			RDL WITH TP	INITIATE, EXIT	817
			TEST PATTERN	INITIATE, EXIT	%T
012-≻ <u>₹</u>	MODIFY CONFIGURATION ?	CHANGE MODEM OPTIONS ?	CHANGE DCE RATE	DTE SPEED 9600 TRELLIS 9600 UNCODED 4800 UNCODED 2400 V.22 bis	%85 %85 %83
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Table 3-1
Menu Options, continued

						1													5	Ż	-> <u>z</u>	
• .							•														MODIFY CONFIGURATION? (CONT)	MAIN MENU
						(Async Uniy)	CHANGE MNP OPTIONS?				(Leased Only)								•		CHANGE MODEM OPTIONS?	SUBMENU
MNP BREAK CONTROL	MNP INACTIVITY	DATA COMPRESSION	XON/XOFF PASS THROUGH	MNP FLOW CONTROL	DTE SPEED	AUTO FALLBACK/ DISCONNECT (If MNP Proto En)	MNP PROTOCOL	TRANSMIT LEVEL	LOOKBACK TIMER	DIAL BACKUP	2-WIRE/4-WIRE	V.22 GUARD TONE	V.32 CLEARDOWN	LONG SPACE DISCONNECT	LINE CURRENT DISCONNECT	JACK TYPE	LINE TYPE	TRANSMIT CLOCK	AUTO RETRAIN	V.32 FAST TRAIN	FORCED ANSWER OR NORMAL ORIGINATE	SUBMENU
0, 1, 2, 3, 4, 5	OFF, 15, 30, 45, 60, 75, 90 MIN	ENABLE DISABLE	ENABLE	DISABLE XONXOFF CTS only RTS/CTS	DTE = DCE CONSTANT DTE .	DISCONNECT FALLBACK TO NON EC MODE	ENABLE DISABLE	0 TO -15 dB	OFF, 15, 30, 45, 60 MIN	MANUAL, AUTO	2-WIRE, 4-WIRE	DIS, 550 1800 Hz	DISABLE	ENABLE DISABLE	OFF, 8 MS 90 MS	PER - RJ11 PROG - RJ15	LEASED, DIAL	INTERNAL EXTERNAL RECEIVE	ENABLE, DIS	ENABLE, DIS	NORM ORIGIN FORCED ANSWER	OPTION
VK, VK1, VK2, VK3, VK4, VK5		%C1	× <del>2</del>	ర్జిస్టర క	۲5	SN SN	SN. SN.	75		.80.80	&L1, &L2	&G, &G1 G2	፰ᇙ	~≾	, rc3	%Z %Z1	&L1, &L2,	&X &X1 &X2	%E1, %E	'FT1, 'FT	OR OR1	COM.
S59	S58	S60	ı	74 S2	S72	S70	S70	S52	833	S32	S32	\$23	S14	S21	S32	!	S27	S27	380	S29	S14	REG



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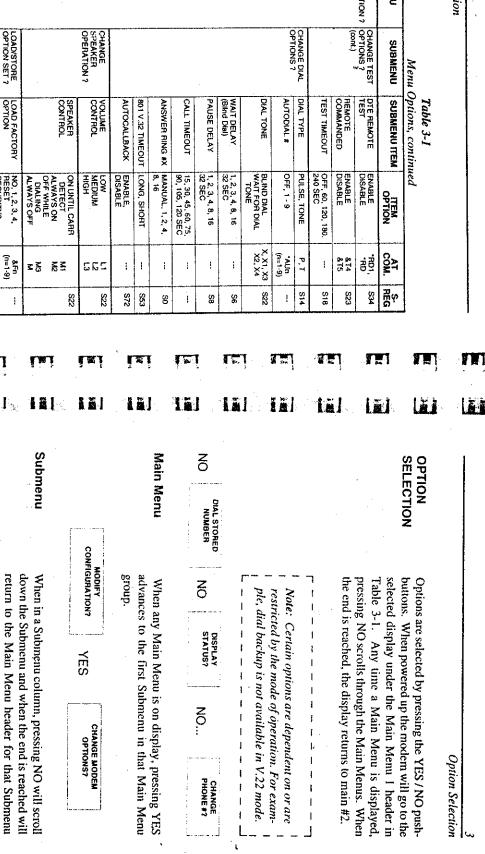
Option Selection

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-															<del></del>					បា	z~> <u>₹</u>	
																					MODIFY CONFIGURATION7 (CONT)	MAIN MENU
	•	CHANGE TEST OPTIONS?										4. 		-							CHANGE DTE OPTIONS ?	SUBMENU
DTELOCAL	BILATERAL DIGITAL LOOP	BILATERAL ANALOG LOOP	OPTIONS RESI	DTE COMMANDED FALLBACK	RTS/CTS DELAY		CTS STATE		***		DCD STATE	DSR STATE	DTR RESPONSE	CHARACTER TYPE (V.25 only)	ŀ	AT COMMAND SET	PARITY (Async)	CHAR SIZE (Async)	DTE RATE (Async)		OPERATION	SUBMENU ITEM
ENABLE	DISABLE	DISABLE	RESTORED RETAINED	ENABLE	0 to 90 mg (10 ms)	CTS=RTS	FORCED HIGH CTS FOLLOWS	REMOTE RTS	POLLOWS	OFF 5 SEC ON	NORMAL	NORMAL FORCED HIGH OFF 5 SEC ON DISCONNECT FOLLOWS OH	IGNORE RECALL CMD DISCONNECT RESET	ASCII, EBCDIC	WANUAL, V.25 BISYNC, V.25 SDLC	DISABLE DISABLE	NO, EVEN, ODD	7 B/T 8 B/T	19200, 9600, 4800, 2400, 1200, 300	ASYNC	SYNC	OPTION
ζĘ	D61	AN:	<b>हें</b> हुं	48		&R9	881 882	ŝ	&C2	ñ	&C1	888 888 888 888	8858	1	8.M3 8.M4	IN:	,		ı	MS CMX	&M7, &M2, &M4,	COM.
8	83	S.	8	S.	83	572	S	1			83	ĸ	<u>R</u>	1	ß	3 8	85	<u>861</u>	8	છુ	83	REG

		nam C	мени Ориона, сопинией	eu		
	MAIN MENU	SUBMENU	SUBMENU ITEM	OPTION	COM.	REG S
`>≍	Y IGURATION ?	GE TEST	DTE REMOTE TEST	DISABLE	.BD1,	S34
5 Z -	(cont.)	(cont.)	REMOTE COMMANDED	ENABLE DISABLE	&14 &15	S23
			TEST TIMEOUT	OFF, 60, 120, 180. 240 SEC	1	S18
		CHANGE DIAL	DIAL TYPE	PULSE, TONE	P, T	S14
		OPTIONS 7	AUTODIAL #	OFF, 1 - 9	•AUn (n=1-9)	!
			DIAL TONE	BLIND DIAL WAIT FOR DIAL TONE	X, X1, X3 X2, X4	S22
	-		WAIT DELAY (Blind Diai)	1, 2, 3, 4, 6, 16 32 SEC	ì	8
			PAUSE DELAY	1, 2, 3, 4, 8, 16 32 SEC	!	88
			CALL TIMEOUT	15, 30, 45, 60, 75, 90, 105, 120 SEC		I
			ANSWER RING #X	MANUAL, 1, 2, 4, 8, 16	1	SO
			801 V.32 TIMEOUT	LONG, SHORT	1	83
•			AUTOCALLBACK	ENABLE, DISABLE	i	S72
		CHANGE SPEAKER OPERATION?	CONTROL CONTROL	HIGH	222	83
			SPEAKER CONTROL	ON UNTIL CARR DETECT ALWAYS ON	<u> </u>	S22
				DIALING ALWAYS OFF	M3	
		LOAD/STORE OPTION SET 7	LOAD FACTORY OPTION	NO, 1,2,3,4, RESET SECURITY?	&Fn (n=1-9)	ı
			STORE PRESENT OPTIONS	YES, NO	&W	1
Z - > Z	CHANGE PHONE NUMBERS ?		PHONE NUMBER	NO/ NINE 31-CHARO NUMBERS	8Zn (n=phone# and dial modifiers)	1
0.2					*CNn,x	



CHANGE MODEM OPTIONS?

YES

DCE

to the Submenu Item column.

When in a Submenu column, pressing YES advances

CHANGE MODEM OPTIONS?

NO ::

LOAD/STORE OPTION SET?

Ö

MODIFY CONFIGURATION?

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## Submenu Item

scroll through the items and when the end is reached will return to the Submenu header for that item group When in a Submenu Item column, pressing NO will

DCE 8 ORIG/FORCE ANSWER? > NO...

V.22 GUARD TONE DISABLED\* 8

CHANGE MODEM OPTIONS?

\*This is the last submenu item for modem options.

selected option. Item. The first option that appears is the currently advances to the Option Setting for that Submenu When in a Submenu Items column, pressing YES

NORMAL ORIG. FORCED
ANSWER?

YES

FORCE ANSWER NORMAL ORIG.?

prompt question on the LCD to either keep or change When in the Item Option column, respond to the the current display.

**Item Option** 

USE RECEIVE
TRANSMIT
CLOCK?

8

USE EXTERNAL
TRANSMIT
CLOCK?

N O USE INTERNAL
TRANSMIT
CLOCK?

INTERNAL CLOCK CHANGE?

8

W

YES

Option Selecting the

plays the first submenu item. item) to be changed and press YES. The LCD dis-Select the submenu containing the option (submenu

will guide you to the desired option. submenu item. In any case, responding to the prompt sired setting is displayed, then advance to the next desired setting, respond to the prompts until the demenu Items. If the first setting displayed is not the the desired option, press NO to scroll through Sub-If the first submenu item (option) setting displayed is

T Yes

ever, the option selection sequence is the same. available, not all Main Menus have Submenus and not all Submenus have Item Options. How-Note: Because of menu structure and options