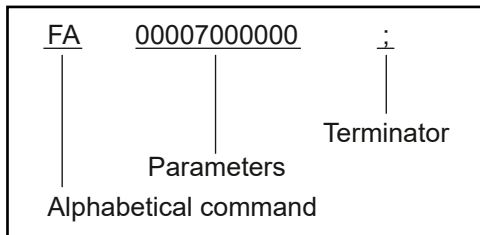


Lab599 CAT Protocol

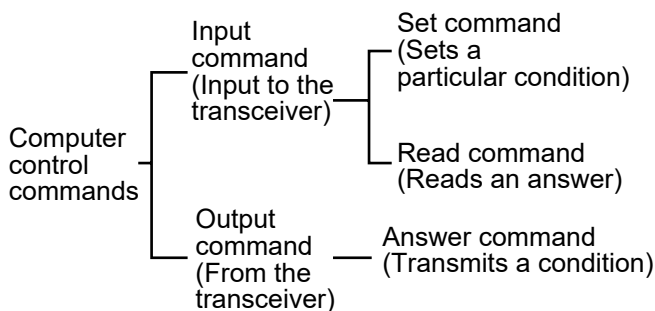
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A control command is composed of an alphabetical command, various parameters, and the terminator that signals the end of the control command.

EXAMPLE: Command to set VFO A to 7 MHz



Commands can be classified as shown below:



For example, note the following in the case of the FA command (Frequency of VFO A):

- To set the frequency to 7 MHz, the following command is sent from the computer to the transceiver:

"FA00007000000;" **(Set command)**

- To read the frequency of VFO A, the following command is sent from the computer to the transceiver:

"FA;" **(Read command)**

- When the Read command above has been sent, the following command is returned to the computer:

"FA00007000000;" **(Answer command)**

Note:

- Do not use the control characters 00 to 1Fh since they are either ignored or cause a "?" answer.
- Program execution may be delayed while turning the **Tuning** control rapidly.
- Receive data is not processed if the frequency is entered from the keypad.

Parameters are used to specify information necessary to implement the desired command. The parameters to be used for each command are predetermined. The number of digits assigned to each parameter is also predetermined.

When configuring parameters, be careful not to make the following mistakes.

(correct parameter: "IS+1000")

- IS1000; Not enough parameters specified (No direction given for the IF shift)
- IS+100; Not enough digits (Only three frequency digits given)
- IS + 1000; Unnecessary characters between parameters
- IS+10000; Too many digits (Five frequency digits given)

Note: If a particular parameter is not applicable to this transceiver, the parameter digits should be filled using any character except the ASCII control codes (00 to 1Fh) and the terminator (;).

■ **Terminator**

To signal the end of a command, it is necessary to use a semicolon (;). The digit where this special character must appear differs depending on the command used.

■ **Error Messages**

In addition to the Answer command, the transceiver can send the following error messages.

Error Message	Reason for Error
?;	<ul style="list-style-type: none"> Command syntax was incorrect. Command was not executed due to the current status of the transceiver (even though the command syntax was correct). <p><i>Note: Occasionally this message may not appear due to microprocessor transients in the transceiver.</i></p>
E;	A communication error occurred such as an overrun or framing error during a serial data transmission.
O;	Receive data was sent but processing was not completed.

PC CONTROL COMMAND TABLES

AC	Sets or reads the internal antenna tuner status.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Always 0
	A	C	P1	P2	P3	;					
Read	1	2	3	4	5	6	7	8	9	10	P2 0: AT OFF 1: AT ON
	A	C	;								
Answer	1	2	3	4	5	6	7	8	9	10	P3 0: Stop Tuning (Set)/ Tuning is stopped (Answer) 1: Start Tuning (Set)/ Tuning is active (Answer)
	A	C	P1	P2	P3	;					
											• TX500MP

AG	Sets or reads the AF gain.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Always 0 P2 000 (minimum) ~ 250 (maximum)
	A	G	P1	P2	P2	P2	;				
Read	1	2	3	4	5	6	7	8	9	10	
	A	G	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	A	G	P1	P2	P2	P2	;				

AL	Sets or reads the NF type.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 0 – NF type 1 1 – NF type 2
	A	L	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	A	L	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	A	L	P1	;							

BY	Reads the busy signal status.										Parameters:
Read	1	2	3	4	5	6	7	8	9	10	P1 0: Not busy 1: Busy
	B	Y	;								
Answer	1	2	3	4	5	6	7	8	9	10	P2 0: Always 0
	B	Y	P1	P2	;						

BD / BU	Up or Down band.										TX500
Set	1	2	3	4	5	6	7	8	9	10	
	B	D / U	;								

CG	Sets and reads the Carrier Level.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 10 (minimum) ~ 100 (maximum) and ON TX 0 – OFF TX TUNE or TONE level
	C	G	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	C	G	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	C	G	P1	P1	P1	;					

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CN		Sets and reads the CTCSS frequency.										Parameters:																		
Set	1	2	3	4	5	6	7	8	9	10	C	N	P1	P1	;							P1 00 ~ 41 500MP	No.	Freq. (Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)
	Read	1	2	3	4	5	6	7	8	9																				
Answer	1	2	3	4	5	6	7	8	9	10	C	N	P1	P1	;								01	69.3	12	100.0	23	146.2	34	210.7
	02	71.9	13	103.5	24	151.4	35	218.1																						
										03	74.4	14	107.2	25	156.7	36	225.7													
										04	77.0	15	110.9	26	162.2	37	229.1													
										05	79.7	16	114.8	27	167.9	38	233.6													
										06	82.5	17	118.8	28	173.8	39	241.8													
										07	85.4	18	123.0	29	179.9	40	250.3													
										08	88.5	19	127.3	30	186.2	41	254.1													
										09	91.5	20	131.8	31	192.8	—	—													
										10	94.8	21	136.5	32	203.5	—	—													

CT		Sets and reads the CTCSS function status.										Parameters:											
Set	1	2	3	4	5	6	7	8	9	10	C	T	P1	;							P1 0: CTCSS OFF 1: CTCSS ON 500MP		
	Read	1	2	3	4	5	6	7	8	9												10	1
Answer	1	2	3	4	5	6	7	8	9	10	C	T	P1	;								0	1
	1	0																					

FA / FB		Sets or reads the VFO A/ VFO B frequency.										Parameters:																					
Set	1	2	3	4	5	6	7	8	9	10	F	A/B	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1 Frequency (11 digits in Hz) • For example, enter 00014195000 for 14.195 MHz. Blank digits must be entered as 0.											
	Read	11	12	13	14	15	16	17	18	19													20	11	12	13	14	15	16	17	18	19	20
		P1	P1	P1	;																			P1	P1	P1	;						
Answer	1	2	3	4	5	6	7	8	9	10	F	A/B	P1	P1	P1	P1	P1	P1	P1	P1	P1		0	1									
	11	12	13	14	15	16	17	18	19	20													11	12	13	14	15	16	17	18	19	20	
	P1	P1	P1	;																			P1	P1	P1	;							

FL		Sets and reads the current filter.										Parameters:												
Set	1	2	3	4	5	6	7	8	9	10	F	L	P1	P2	;							P1 0-3 number current filter RX P2 0-1 number current filter TX Lab599		
	Read	1	2	3	4	5	6	7	8	9													10	0
Answer	1	2	3	4	5	6	7	8	9	10	F	L	P1	P2	;								0	1
	0	1																						

FR / FT		Selects or reads the VFO or Memory channel.										RX \ TX												
Set	1	2	3	4	5	6	7	8	9	10	F	R/T	P1	;							P1 0: VFO A 1: VFO B 2: Memory Channel			
	Read	1	2	3	4	5	6	7	8	9												10	0	1
Answer	1	2	3	4	5	6	7	8	9	10	F	R/T	P1	;								0	1	2
	0	1	2																					

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GT	Sets or reads the AGC time constant.										Parameters: P1 01 ~ 10 (in steps of 1)
Set	1	2	3	4	5	6	7	8	9	10	
	G	T	P1	P1	;						
Read	1	2	3	4	5	6	7	8	9	10	
	G	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	G	T	P1	P1	;						

ID	Reads the transceiver ID number.										Parameters: P1 019: TS-2000 protocol TS2000 500: TX500 protocol LAB599 505: TX500MP protocol LAB599
Read	1	2	3	4	5	6	7	8	9	10	
	I	D	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	I	D	P1	P1	P1	;					

IF	Reads the transceiver status.										Parameters: P1 11 digit displayed frequency (for example, 00014175000 is 14.175 MHz) P2 Spaces (5) P3 RIT/XIT frequency ±9990 Hz P4 0: RIT OFF 1: RIT ON P5 0: XIT OFF 1: XIT ON P6, P7 Memory channel number (refer to the MC command) P8 0: RX 1: TX P9 Operating mode (refer to the MD command) P10 Function (refer to the FR/FT commands) P11 Scan status (refer to the SC command) P12 0: Simplex operation 1: Split operation P13 0: OFF 2: CTCSS ON P14 00 ~ 42: Tone/ CTCSS frequency (refer to the TN/CN commands) P15 0: Always 0 The IF command cannot read the transceiver status while it is in Data mode.
Read	1	2	3	4	5	6	7	8	9	10	
	I	F	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	I	F	P1	P1	P1	P1	P1	P1	P1	P1	
	11	12	13	14	15	16	17	18	19	20	
	P1	P1	P1	P2	P2	P2	P2	P2	P3	P3	
	21	22	23	24	25	26	27	28	29	30	
	P3	P3	P3	P4	P5	P6	P7	P7	P8	P9	
	31	32	33	34	35	36	37	38	39	40	
P10	P11	P12	P13	P14	P14	P15	;				

IS	Sets and reads the DSP IF set.										Parameters: P1 0 IF not set 1 IF set Lab599
Set	1	2	3	4	5	6	7	8	9	10	
	I	S	P1					;			
Read	1	2	3	4	5	6	7	8	9	10	
	I	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	I	S	P1					;			

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KS	Sets and reads the Keying speed.										<u>Parameters:</u> P1 004 ~ 060 (in steps of 1) • An entered value of 003 or lower results in 004 being entered. A value of 061 or higher results in 060 being entered.
Set	1	2	3	4	5	6	7	8	9	10	
	K	S	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	K	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	K	S	P1	P1	P1	;					

LK	Sets and reads the Lock status.										<u>Parameters:</u> P1 0: Lock OFF 1: Lock ON P2 0: Always 0
Set	1	2	3	4	5	6	7	8	9	10	
	L	K	P1	P2	;						
Read	1	2	3	4	5	6	7	8	9	10	
	L	K	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	L	K	P1	P2	;						

MC	Sets and reads the Memory Channel number.										<u>Parameters:</u> P1 Always 0 P2 00 ~ 99: Two digit channel number When the channel number is less than 10, both for setting and response commands, the first digit is "0".
Set	1	2	3	4	5	6	7	8	9	10	
	M	C	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	C	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	C	P1	P2	P2	;					

MD	Sets and reads the operating mode status.										<u>Parameters:</u> P1 0: None (setting failure) 1: LSB 2: USB 3: CW 4: FM 5: AM 6: DIG lab599 7: CW-R
Set	1	2	3	4	5	6	7	8	9	10	
	M	D	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	M	D	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	D	P1	;							

MA	Sets and reads the DIG gain.										<u>Parameters:</u> P1 000 ~ 100 (in steps of 1)
Set	1	2	3	4	5	6	7	8	9	10	
	M	A	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	A	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	A	P1	P1	P1	;					

MG	Sets and reads the microphone gain.										<u>Parameters:</u> P1 000 ~ 100 (in steps of 1)
Set	1	2	3	4	5	6	7	8	9	10	
	M	G	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	G	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	G	P1	P1	P1	;					

MR	Reads the Memory channel data.										<u>Parameters:</u> P1, P2
	1	2	3	4	5	6	7	8	9	10	

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Read	M	R	P1	P2	P3	P3	:				Always 0 P3 Channel number (refer to the MC command)
Answer	1	2	3	4	5	6	7	8	9	10	P4 Frequency (depending on the P1 setting, unused high-end digits will become 0)
	M	R	P1	P2	P3	P3	P4	P4	P4	P4	P5 Mode (depending on the P1 setting, refer to the MD command)
	11	12	13	14	15	16	17	18	19	20	P6 0: OFF 1: Pre-amplifier 2: Attenuator
	P4	P4	P4	P4	P4	P4	P4	P5	P6	P7	P7 Always 0 P8,P9, Always 0
	21	22	23	24	25	26	27	28	29	30	P10 000: Always 000
	P8	P8	P9	P9	P10	P10	P10	P11	P12	P13	P11,P12 Always 0
	31	32	33	34	35	36	37	38	39	40	P13,P14,P15 Always 0
	P13	P13	P13	P13	P13	P13	P13	P13	P14	P14	P16 Always space
41	42	43	44	45	46	47	48	49	50		
P15	P16	P16	P16	P16	P16	P16	P16	P16	;	LAB599	

ML	Sets and reads the TX Monitor function output level.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 000-250 TX Monitor level
	M	L	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	L	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	L	P1	P1	P1	;					

MO	Sets and reads the TX Monitor mute.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1 1 TX Monitor mute 0 TX Monitor out
	M	O	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	M	O	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	O	P1	;							

MW	Sets the Memory channel data.										Parameters:
Set	1	2	3	4	5	6	7	8	9	10	P1, P2 Always 0 P3 Channel number (refer to the MC command) P4 Frequency (depending on the P1 setting, unused high-end digits will become 0) P5 Mode (depending on the P1 setting, refer to the MD command) P6 0: OFF 1: Pre-amp ON 2: ATT ON P7 Always 0 P8,P9, Always 0 P10 000: Always 000 P11,P12 Always 0 P13,P14,P15 Always 0 P16 Always space LAB599
	M	W	P1	P2	P3	P3	P4	P4	P4	P4	
	11	12	13	14	15	16	17	18	19	20	
	P4	P4	P4	P4	P4	P4	P4	P5	P6	P7	
	21	22	23	24	25	26	27	28	29	30	
	P8	P8	P9	P9	P10	P10	P10	P11	P12	P13	
	31	32	33	34	35	36	37	38	39	40	
	P13	P13	P13	P13	P13	P13	P13	P13	P14	P14	
41	42	43	44	45	46	47	48	49	50		
P15	P16	P16	P16	P16	P16	P16	P16	P16	;		

NB	Sets and reads the Noise Blanker function status.										Parameters:
-----------	---	--	--	--	--	--	--	--	--	--	-------------

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Set	1	2	3	4	5	6	7	8	9	10	P1 0: NB OFF 1: NB ON
	N	B	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	N	B	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	B	P1	;							

NL	Sets and reads the Noise Blanker level.										Parameters: P1 030 ~ 100 (in steps of 1)
Set	1	2	3	4	5	6	7	8	9	10	
	N	L	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	N	L	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	L	P1	P1	P1	;					

NR	Sets and reads the Noise Reduction function status.										Parameters: P1 0: NR OFF 1: NR ON
Set	1	2	3	4	5	6	7	8	9	10	
	N	R	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	N	R	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	R	P1	;							

NT	Sets and reads the Notch Filter status.										Parameters: P1 0: Notch OFF 1: Auto Notch
Set	1	2	3	4	5	6	7	8	9	10	
	N	T	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	N	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	T	P1	;							

NF	Sets and reads the Notch Filter type.										Parameters: P1 0: Notch type 1 1: Notch type 2
Set	1	2	3	4	5	6	7	8	9	10	
	N	T	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	N	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	T	P1	;							

PA	Sets and reads the Pre-amplifier function status.										Parameters: P1 0: Pre-amp OFF 1: Pre-amp ON P2 0: Always 0
Set	1	2	3	4	5	6	7	8	9	10	
	P	A	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	P	A	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	P	A	P1	P2	;						

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PC		Sets and reads the output power.										Parameters: P1 010 ~ 100: Power
Set		1	2	3	4	5	6	7	8	9	10	
		P	C	P1	P1	P1	;					
Read		1	2	3	4	5	6	7	8	9	10	
		P	C	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		P	C	P1	P1	P1	;					

PL		Sets and reads the Speech compressor input level.										Parameters: P1 (compressor level) 001 (minimum) ~ 100 (maximum)
Set		1	2	3	4	5	6	7	8	9	10	
		P	L	P1	P1	P1	;					
Read		1	2	3	4	5	6	7	8	9	10	
		P	L	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		P	L	P1	P1	P1	;					

PR		Sets and reads the Speech compressor function ON/ OFF.										Parameters: P1 0: Speech compressor OFF 1: Speech compressor ON
Set		1	2	3	4	5	6	7	8	9	10	
		P	R	P1	;							
Read		1	2	3	4	5	6	7	8	9	10	
		P	R	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		P	R	P1	;							

PS		Sets and reads the Power ON/ OFF status.										Parameters: P1 1: Power ON
Set		1	2	3	4	5	6	7	8	9	10	
		P	S	P1	;							
Read		1	2	3	4	5	6	7	8	9	10	
		P	S	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		P	S	P1	;							

PT		Reads the PTT status.										Parameters: P1 0: RX 1: TX
Set		1	2	3	4	5	6	7	8	9	10	
Read		1	2	3	4	5	6	7	8	9	10	
		P	T	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		P	T	P1	;							

RA		Sets and reads the RF Attenuator status.										Parameters: P1 00: ATT OFF 01: ATT ON P2 00: Always 00
Set		1	2	3	4	5	6	7	8	9	10	
		R	A	P1	P1	;						
Read		1	2	3	4	5	6	7	8	9	10	
		R	A	;								
Answer		1	2	3	4	5	6	7	8	9	10	
		R	A	P1	P1	P2	P2	;				

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RG	Sets and reads the RF Gain status.										<u>Parameters:</u> P1 000 ~ 100 (in steps of 1)
Set	1	2	3	4	5	6	7	8	9	10	
	R	G	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	R	G	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	G	P1	P1	P1	;					

RM	Sets and reads the Meter function.										<u>Parameters:</u> P1 0: POWER 1: SWR 2: MIC/DIG 3: ALC P2 0000 ~ 0030: Meter value in dots LAB599
Set	1	2	3	4	5	6	7	8	9	10	
	R	M	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	R	M	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	M	P1	P2	P2	P2	P2	;			

RT	Sets and reads the RIT function status.										<u>Parameters:</u> P1 0: RIT OFF 1: RIT ON
Set	1	2	3	4	5	6	7	8	9	10	
	R	T	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	R	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	T	P1	;							

RX	Sets the receiver mode.										<u>Parameters:</u> No parameters are used with this command. Set RX mode
Set	1	2	3	4	5	6	7	8	9	10	
	R	X	;								
Answer	1	2	3	4	5	6	7	8	9	10	

RL	Sets and reads the Noise Reduction Level.										<u>Parameters:</u> P1 (When NR is ON: reads the setting of the NR effective level) 01 ~ 100
Set	1	2	3	4	5	6	7	8	9	10	
	R	L	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	R	L	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	L	P1	P1	P1	;					

SM	Reads the S-meter value.										<u>Parameters:</u> P1 0: Always 0 P2 0000 ~ 0030: S-meter value (RX mode) 0000 ~ 0030: Power out value (TX mode)
Read	1	2	3	4	5	6	7	8	9	10	
	S	M	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	S	M	P1	P2	P2	P2	P2	;			

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SP	Sets and reads the split operation frequency										Parameters: P1 (Sets the split operation frequency) 0: Split OFF 1: Split ON • TX500
	Set	1	2	3	4	5	6	7	8	9	
Read	S	P	P1	;							
	1	2	3	4	5	6	7	8	9	10	
Answer	S	P	P1	;							
	1	2	3	4	5	6	7	8	9	10	

SQ	Sets and reads the squelch value.										Parameters: P1 0: Always 0 P2 000 ~ 255 (in steps of 1): Squelch level
	Set	1	2	3	4	5	6	7	8	9	
Read	S	Q	P1	P2	P2	;					
	1	2	3	4	5	6	7	8	9	10	
Answer	S	Q	P1	P2	P2	;					
	1	2	3	4	5	6	7	8	9	10	

TO	Sets and reads the Tone status.										Parameters: P1 0: Tone OFF 1: Tone ON
	Set	1	2	3	4	5	6	7	8	9	
Read	T	O	P1	;							
	1	2	3	4	5	6	7	8	9	10	
Answer	T	O	P1	;							
	1	2	3	4	5	6	7	8	9	10	

TP	Sets and reads the output power for TX Tune.										Parameters: P1 005 ~ 050
	Set	1	2	3	4	5	6	7	8	9	
Read	T	P	P1	P1	P1	;					
	1	2	3	4	5	6	7	8	9	10	
Answer	T	P	P1	P1	P1	;					
	1	2	3	4	5	6	7	8	9	10	

TM	Sets and reads time.										Parameters: P1 00-23 Hours P2 00-59 Minutes P3 00-59 Seconds
	Set	1	2	3	4	5	6	7	8	9	
Read	T	M	P1	P1	:	P2	P2	:	P3	P3	
	11										
Answer	T	M	P1	P1	:	P2	P2	:	P3	P3	
	11										
	;										

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TX		Sets the transmission mode.										Parameters: No parameters are used with this command. Set TX mode	
Set		1	2	3	4	5	6	7	8	9	10		
		T	X	;									
Answer		1	2	3	4	5	6	7	8	9	10		

VD		Sets and reads the VOX Delay time.										Parameters: P1 0000 ~ 5000 ms (in steps of 100)	
Set		1	2	3	4	5	6	7	8	9	10		
		V	D	P1	P1	P1	P1	;					
Read		1	2	3	4	5	6	7	8	9	10		
		V	D	;									
		1	2	3	4	5	6	7	8	9	10		
		V	D	P1	P1	P1	P1	;					

VG		Sets and reads the VOX Gain.										Parameters: P1 000 ~ 100 (in steps of 1)	
Set		1	2	3	4	5	6	7	8	9	10		
		V	G	P1	P1	P1	;						
Read		1	2	3	4	5	6	7	8	9	10		
		V	G	;									
Answer		1	2	3	4	5	6	7	8	9	10		
		V	G	P1	P1	P1	;						

VV		Performs the VFO copy (A=B) function.										Parameters: No parameters are used with this command. TX500
Set		1	2	3	4	5	6	7	8	9	10	
		V	V	;								

VL		Reads the voltage power.										Parameters: P1 Voltage in V LAB599	
Set		1	2	3	4	5	6	7	8	9	10		
Read		1	2	3	4	5	6	7	8	9	10		
		V	L	;									
Answer		1	2	3	4	5	6	7	8	9	10		
		V	L	P1	P1	P1	P1	;					

VX		Sets and reads the VOX status.										Parameters: P1 0: VOX OFF 1: VOX ON	
Set		1	2	3	4	5	6	7	8	9	10		
		V	X	P1	;								
Read		1	2	3	4	5	6	7	8	9	10		
		V	X	;									
Answer		1	2	3	4	5	6	7	8	9	10		
		V	X	P1	;								

XT		Sets and reads the XIT function status.										Parameters: P1 0: XIT OFF 1: XIT ON TX-500	
Set		1	2	3	4	5	6	7	8	9	10		
		X	T	P1	;								
Read		1	2	3	4	5	6	7	8	9	10		
		X	T	;									
Answer		1	2	3	4	5	6	7	8	9	10		
		X	T	P1	;								