

NRD-535D Computer Interface Command Set — ROM version F

ITEM	COMMAND	DESCRIPTION	RESPONSE	H0?
A: Attenuator	A0↵	Set ATT off		
	A1↵	Set ATT on		
B: Filter Bandwidth	B0↵	Set WIDE filter		
	B1↵	Set INTER filter		
	B2↵	Set NARR filter		
	B3↵	Set AUX filter		
C: Memory Channel	Cnnn↵	nnn = memory channel no. (000-199)	Cnnn↵ (If channel is active) CnnnV↵ (If channel is empty)	
	C↵	Select CHAN VFO		
D: Receiving Mode	D0↵	Set RTTY mode		
	D1↵	Set CW mode		
	D2↵	Set USB mode		
	D3↵	Set LSB mode		
	D4↵	Set AM mode		
	D5↵	Set FM mode		
	D6↵	Set FAX mode		
	D7↵	Set ECSS-USB mode		
	D8↵	Set ECSS-LSB mode		
E: Store Current Settings to Current Memory Channel	E1↵	Write current receiver frequency, bandwidth, mode, AGG & ATT parameters to the currently selected memory channel.		
F: Frequency	Fmmkkkhhh↵	mm = MHz (00-29) kkk = kHz (000-999) hhh = Hz (000-999)		
	F↵	Select FREQ VFO		

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G: AGC	G0↵ G1↵ G2↵	Set SLOW AGC Set FAST AGC Disable AGC		
H: Remote	H0↵ H1↵ H↵	Disable REMOTE Enable REMOTE Report current REMOTE status	H0↵ = REMOTE off H1↵ = REMOTE on	√ √
I: Report Status	I0↵ I1↵ I↵	Status report off Status report on. (Reports receiver parameters each time any parameter is changed, either manually or by REMOTE operation) Report current receiver parameters	Iabdfg↵ , where: a = ATT (0 or 1) b = Filter (0 to 3) d = Mode (0 to 8) f = Freq. (mmkkkhhh) g = AGC (0 to 2) Iabdfg↵	√
J: Store Current Settings to Specified Memory Channel	J1nnn↵	nnn = memory channel no. (000-199)		
K: Store Specified Receiver Settings to Specified Memory Channel (Does not update VFO)	Knnnabdfg↵	nnn = Channel no. (000-199) a = ATT (0 or 1) b = Filter (0 to 3) d = Mode (0 to 8) f = Freq. (mmkkkhhh) g = AGC (0 to 2)		
L: Read Memory Channel Data	Lssssee↵ L↵	sss = Start channel eee = End channel Report data stored in current memory channel	Lnnnabdfg↵ , where: nnn = Ch. no. (000-199) a = ATT (0 or 1) b = Filter (0 to 3) d = Mode (0 to 8) f = Freq. (mmkkkhhh) g = AGC (0 to 2) Lnnnabdfg↵	

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ITEM	COMMAND	DESCRIPTION	RESPONSE	H0?
M: S-Meter	M↵	Report three digit number corresponding to relative S-Meter reading. For example: 118 = S5 106 = S7 100 = S9 093 = S9 + 10dB 081 = S9 + 30dB 072 = S9 + 50dB	Mnnn↵, where: nnn = 000-255	√
N: Noise Blanker	N0↵ N1↵ N2↵ N↵	Noise Blanker off Noise Blanker 1 on Noise Blanker 2 on Report current NB status	N0↵ = NB off N1↵ = NB1 on N2↵ = NB2 on	√
O: Timer Relay	O0↵ O1↵ O↵	Relay off Relay on Report current relay status	O0↵ = Relay off O1↵ = Relay on	√
P: Pass Band Shift (PBS)	Psnnnn↵ P↵	s = "+" or "-" sign nnnn = PBS offset in Hz (0000 to 2000) Report current PBS offset	Psnnnn↵	√
Q: Squelch	Q↵	Report squelch state	Q0↵ = Squelch off Q1↵ = Squelch on (receiver muted)	√

NRD-535D Computer Interface Command Set — ROM version F

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R: Clock and Timer	R0↵	Report current time (To display seconds, cut jumper R17 on CPU circuit board)	Rhhmmss↵ , where: hh = hour (00-23) mm = minutes (00-59) ss = seconds (00-59)	√
	R1hhmm↵	Set clock		
	R2hhmm↵	Set Timer ON time		
	R2↵	Report current Timer ON time	R2hhmm↵	√
	R3hhmm↵	Set Timer OFF time		
	R3↵	Report current Timer OFF time	R3hhmm↵	√
	R4↵	Display clock		
	R5↵	Display Timer ON time		
	R6↵	Display Timer OFF time		
R7↵	Return to Normal Frequency Display			
S: Store Specified Receiver Settings to Specified Memory Channel and Update VFO	Snnnabdfg↵	nnn = Channel no. (000-199) a = ATT (0 or 1) b = Filter (0 to 3) d = Mode (0 to 8) f = Freq. (mmkkkhhh) g = AGC (0 to 2)		
T: Main Power Control	T0↵	Power off		
	T1↵	Power on		
	T↵	Report status of receiver power	T0↵ = Power off T1↵ = Power on	√
U0: Relay Operation Mode	U00↵	Normally off		
	U01↵	Normally on		
	U02↵	Carrier operated		
	U0↵	Report current relay mode	U00↵ = Normally off U01↵ = Normally on U02↵ = Carrier operated	√

NRD-535D Computer Interface Command Set — ROM version F

ITEM	COMMAND	DESCRIPTION	RESPONSE	H0?
U1: VBT Bypass	U10↵	Bypass front-end VBT circuit	U10↵ = VBT Bypassed U11↵ = VBT Enabled	√
	U11↵	Enable front-end VBT circuit		
	U1↵	Report VBT status		
U2: BFO Offset (for CW mode)	U2snnnn↵	s = "+" or "-" sign nnnn = BFO offset in Hz (0000 to 2000)	U2snnnn↵	√
	U2↵	Report current BFO offset		
U3: RTTY Demodulator (For use with optional CMH-530 RTTY demodulator)	U3brsp↵	br = baud rate divider (00-99) s = Mark/Space shift (0-2) p = polarity (0 or 1) To Calculate Baud Rate: Baud Rate = 75000 ÷ 1br0 If br = 65, then: Baud Rate = 75000 ÷ 1650 = 45.45 For 45.45 baud, br = 65 For 50 baud, br = 50 For 75 baud, br = 00 To Set Shift Width: 0 = 170 Hz 1 = 400 Hz 2 = 850 Hz To Set Polarity: 0 = Normal 1 = Reverse	U3brsp↵	√
	U3↵	Report RTTY settings		
U4: S-Meter Display Type	U40↵	Single segmentpointer	U40↵ = Single pointer U41↵ = Bar graph	√
	U41↵	Bar graph		
	U4↵	Report S-Meter display type		
U5: Clear Memory Channel	U5nnn↵	nnn = Memory Channel number		

NRD-535D Computer Interface Command Set — ROM version F

ITEM	COMMAND	DESCRIPTION	RESPONSE	H0?
U6: SSB Frequency Shift	U60↵	Display 1.5 kHz shift	U60↵ = Display shift U61↵ = Display local	√
	U61↵	Display local frequency		
	U6↵	Report SSB Frequency Shift status		
U7: 10 Hz Digit Display	U70↵	10 Hz digit off	U70↵ = Digit off U71↵ = Digit on	√
	U71↵	10 Hz digit on		
	U7↵	Report 10 Hz digit status		
U8: Clock Colon Blinking	U80↵	Colon not blinking	U80↵ = Not blinking U81↵ = blinking	√
	U81↵	Colon blinking		
	U8↵	Report status of clock colon		
U9: Beep	U90↵	Beep off	U90↵ = Beep off U91↵ = Beep on	√
	U91↵	Beep on		
	U9↵	Report beep status		
UD: Dial Pulse Rate	UD0↵	Set rate to 250 steps per revolution	UD0↵ = 250 steps/rev UD1↵ = 1000 steps/rev	√
	UD1↵	Set rate to 1000 steps per revolution		
	UD↵	Report main tuning dial pulse rate		
V: Tuning Increments	V0↵	Set tuning step to 1 Hz	V0↵ = 1 Hz V1↵ = 10 Hz V2↵ = 100 Hz	√
	V1↵	Set tuning step to 10 Hz		
	V2↵	Set tuning step to 100 Hz		
	V↵	Report current tuning step rate		

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ITEM	COMMAND	DESCRIPTION	RESPONSE	H0?
W: Bandwidth Control Unit (BWC)	Wnnnn↵	Set BWC. nnnn = bandwidth in Hz (0500–5500). Note: With WIDE filter, possible range is 5500 Hz to 2000 Hz. With INTER filter, possible range is 2200 Hz to 0500 Hz.		
	W+↵	Set BWC to maximum possible width based on selected filter.		
	W-↵	Set BWC to minimum possible width based on selected filter.		
	W↵	Report current BWC setting	Wnnnn↵	√
X: RTTY Output	X0↵	Disable RTTY output via RS-232C		
	X1↵	Enable RTTY output via RS-232C		√
	X↵	Report status of RTTY output	X0↵ = Output off X1↵ = Output on	
Y: Auto Tune	Y+↵	Tune up in frequency		
	Y-↵	Tune down in frequency		
	Y0↵	Stop tuning		
	Y↵	Report Auto Tune status	Y+↵ = Tuning up Y-↵ = Tuning down Y0↵ = Not tuning	√
Z: Reset	Z1↵	Clear all memory channels		
	Z2↵	Reset user definitions to default		
	Z3↵	Total reset (memory channels and user definitions)		
?: Model/Version	?↵	Report model and ROM version	?535-v , where v = ROM version (F, etc.)	√

Notes:

1. All commands and responses are highlighted in **boldface** type.
2. A √ in the "H0" column indicates that the command can be sent without the REMOTE command (H1) being set first.