

RSX 1550

1 Byte waveform format

Baud Rate	Parity	Valid data bits	Stop bit value	Handshaking	Data type
115200	n	8	1	none	string

1. RSX1550 -> PC

A. Display Data

Start	Count	ID	Type	Data						Chk
0xfe	0x17	0xc9	0x20	char1	...	char13	flag1	...	flag8	xx

char1~13
ASCII Characters

flag1:		flag2:		flag3:		flag4:		flag5:	
bit7	zone 2	bit7	zone 3	bit7	Optical	bit7	Multi	bit7	II
bit6	char7_dot	bit6	char8_colon	bit6	Coaxial	bit6	RDS	bit6	x
bit5	char6_dot	bit5	char13_dot	bit5	1	bit5	RT	bit5	DTS-HD
bit4	char5_dot	bit4	char12_dot	bit4	2	bit4	TP	bit4	MSTR
bit3	char4_dot	bit3	char11_dot	bit3	3	bit3	TA	bit3	dto
bit2	char3_dot	bit2	char10_dot	bit2	4	bit2	PTY	bit2	ES
bit1	char2_dot	bit1	char9_dot	bit1	HDMI	bit1	Tuned	bit1	Neo:6
bit0	char1_dot	bit0	char8_dot	bit0	ST (Tuner)	bit0	Auto	bit0	96/24

flag6:		flag7:		flag8:	
bit7	Lh	bit7	Zone	bit7	FL
bit6	Preset	bit6	DD TrueHD	bit6	C
bit5	Memory	bit5	Dolby Digital	bit5	FR
bit4	Rh	bit4	+	bit4	SL
bit3	Stby_LED	bit3	EX	bit3	SR
bit2	zone 4	bit2	Dolby PL	bit2	LFE
bit1	Disp Mode1	bit1	SBL	bit1	S
bit0	Disp Mode0	bit0	SBR	bit0	SB

	Normal	FL off
display mode1	0	1
display mode0	0	0

The following RS232 feedback only available after Main Software V1.2.2 installed.

B. 12V Trigger Display Data

Start	Count	ID	Type	Data					Chk
0xfe	0x07	0xc9	0x21	flag1	flag2	flag3	flag4	flag5	xx

Data	0	Off
	1	On

flag1: All Trigger		flag2: Listen Trig		flag3: Z2 Trigger		flag4: Z3 Trigger		flag5: Z4 Trigger	
bit7		bit7		bit7		bit7		bit7	
bit6		bit6		bit6		bit6		bit6	
bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6
bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5
bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4
bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3
bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2
bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1

6. PC -> RSX1550 (Direct Select Zone 3)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x17	xx	xx

key:		key:		key:		key:		key:	
0x00	RMC Vol+	0x20	Tune/Preset	0x2a	1	0x4a	Zone Power Off	0x6e	Party Mode
0x01	RMC Vol-	0x21	Preset Scan	0x2b	2	0x4b	Zone Power On	0x6f	Preset Up
0x02	CD	0x22		0x2c	3	0x55	FM	0x70	Preset Down
0x03	Tuner	0x23		0x2d	4	0x56	AM	0x71	All Zones Pwr Off
0x04	Tape	0x24	Band	0x2e	5	0x69	Tune	0x72	Frequency Up
0x05	Video1	0x25		0x2f	6	0x6a	Preset	0x73	Frequency Down
0x06	Video2	0x26	Mono	0x30	7	0x6b	Source	0x74	
0x07	Video3	0x27		0x31	8	0x6c	Mute On	0x75	
0x08	Video4	0x28	Tune+	0x32	9	0x6d	Mute Off	0x76	
0x09	Video5	0x29	Tune-	0x33	0				
0x0a	Zone Power					0x1e	Mute		

7. PC -> RSX1550 (Direct Select Zone 4)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x18	xx	xx

key:		key:		key:		key:		key:	
0x00	RMC Vol+	0x20	Tune/Preset	0x2a	1	0x4a	Zone Power Off	0x6e	Party Mode
0x01	RMC Vol-	0x21	Preset Scan	0x2b	2	0x4b	Zone Power On	0x6f	Preset Up
0x02	CD	0x22		0x2c	3	0x55	FM	0x70	Preset Down
0x03	Tuner	0x23		0x2d	4	0x56	AM	0x71	All Zones Pwr Off
0x04	Tape	0x24	Band	0x2e	5	0x69	Tune	0x72	Frequency Up
0x05	Video1	0x25		0x2f	6	0x6a	Preset	0x73	Frequency Down
0x06	Video2	0x26	Mono	0x30	7	0x6b	Source	0x74	
0x07	Video3	0x27		0x31	8	0x6c	Mute On	0x75	
0x08	Video4	0x28	Tune+	0x32	9	0x6d	Mute Off	0x76	
0x09	Video5	0x29	Tune-	0x33	0				
0x0a	Zone Power					0x1e	Mute		

8. PC -> RSX1550 (Volume Direct)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x30	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x5f	volume 95
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

9. PC -> RSX1550 (Volume Direct Zone 2)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

10. PC -> RSX1550 (Volume Direct Zone 3)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

11. PC -> RSX1550 (Volume Direct Zone 4)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

The following RS232 commands only available after Main Software V1.2.2 installed.

12. PC -> RSX1550 (12V Trigger Direct)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x40	xx	xx

key:		key:	
0x00	Listen Trigger 1	0x10	Zone 3 Trigger 5
0x01	Listen Trigger 2	0x11	Zone 3 Trigger 6
0x02	Listen Trigger 3	0x12	Zone 4 Trigger 1
0x03	Listen Trigger 4	0x13	Zone 4 Trigger 2
0x04	Listen Trigger 5	0x14	Zone 4 Trigger 3
0x05	Listen Trigger 6	0x15	Zone 4 Trigger 4
0x06	Zone 2 Trigger 1	0x16	Zone 4 Trigger 5
0x07	Zone 2 Trigger 2	0x17	Zone 4 Trigger 6
0x08	Zone 2 Trigger 3		
0x09	Zone 2 Trigger 4		
0x0a	Zone 2 Trigger 5		
0x0b	Zone 2 Trigger 6		
0x0c	Zone 3 Trigger 1		
0x0d	Zone 3 Trigger 2		
0x0e	Zone 3 Trigger 3		
0x0f	Zone 3 Trigger 4		

RSX 1550 RS232 Controller Command List

Table: RSX 1550 Waveform format expected:

Baud Rate	Parity	Valid Data Bits	Stop Bit Value	Handshaking	Data Type
115200	N	8	1	None	String

Table: RSX 1550 expected format of a request by RS232 controller:

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0XC9	0x10	0xXX	0xXX

Table 1: Type 10 Primary Command List

NOTE: The values in the table below show the exact byte sequence of all requests. The device will expect the bytes only - no spaces, no delimiter, etc. The controlling device may implement its own method to download each command sequence. The numerical values in the first column are Hexadecimal.

RSX 1550 HEX	Command	Command Description
FE 03 C9 10 02 DE	CD	Source CD
FE 03 C9 10 03 DF	Tuner	Source Tuner
FE 03 C9 10 04 E0	Tape	Source Tape
FE 03 C9 10 05 E1	Video 1	Source Video 1
FE 03 C9 10 06 E2	Video 2	Source Video 2
FE 03 C9 10 07 E3	Video 3	Source Video 3
FE 03 C9 10 08 E4	Video 4	Source Video 4
FE 03 C9 10 09 E5	Video 5	Source Video 5
FE 03 C9 10 0A E6	Power	Power Toggle
FE 03 C9 10 0B E7	Vol+	Volume Up
FE 03 C9 10 0C E8	Vol-	Volume Down
FE 03 C9 10 0D E9	Treble+	Treble Up
FE 03 C9 10 0E EA	Treble-	Treble Down
FE 03 C9 10 0F EB	Bass+	Bass Up
FE 03 C9 10 10 EC	Bass-	Bass Down
FE 03 C9 10 11 ED	Stereo	DSP Stereo
FE 03 C9 10 12 EE	3 Stereo	DSP Dolby 3 Stereo
FE 03 C9 10 13 EF	Pro Logic	DSP Pro Logic
FE 03 C9 10 14 F0	DSP	DSP Music
FE 03 C9 10 15 F1	Multi	Multi Input
FE 03 C9 10 16 F2	Dynamic	Dynamic Range
FE 03 C9 10 17 F3	Rec	Record
FE 03 C9 10 18 F4	OSD Menu	OSD Menu
FE 03 C9 10 19 F5	OSD Enter	OSD Enter
FE 03 C9 10 1A F6	OSD Right (+)	OSD Right
FE 03 C9 10 1B F7	OSD Left (-)	OSD Left
FE 03 C9 10 1C F8	OSD Up	OSD Up
FE 03 C9 10 1D F9	OSD Down / Dynamic	OSD Down / Dynamic
FE 03 C9 10 1E FA	Mute	Mute

RSX 1550 HEX	Command	Command Description
FE 03 C9 10 1F FB	Digital In Select	Digital Input Select
FE 03 C9 10 20 FC	Tune / Preset	Tune / Preset Toggle
FE 03 C9 10 21 FD	Preset Scan	Preset Scan
FE 03 C9 10 22 FE	Surround+	Next Surround Mode
FE 03 C9 10 23 FF	Zone 2 / Main	Zone
FE 03 C9 10 24 00	Band	Tuner Band
FE 03 C9 10 25 01	Freq. Direct	Tuner Frequency Direct
FE 03 C9 10 26 02	FM Mono	Tuner FM Mono
FE 03 C9 10 27 03	Memory / Enter	Tuner Memory Enter
FE 03 C9 10 28 04	Tuning+	Tuner Up
FE 03 C9 10 29 05	Tuning-	Tuner Down
FE 03 C9 10 2A 06	1	1
FE 03 C9 10 2B 07	2	2
FE 03 C9 10 2C 08	3	3
FE 03 C9 10 2D 09	4	4
FE 03 C9 10 2E 0A	5	5
FE 03 C9 10 2F 0B	6	6
FE 03 C9 10 30 0C	7	7
FE 03 C9 10 31 0D	8	8
FE 03 C9 10 32 0E	9	9
FE 03 C9 10 33 0F	0	0
FE 03 C9 10 44 20	Display	Tuner Display
FE 03 C9 10 45 21	PTY	RDS PTY
FE 03 C9 10 46 22	TP	RDS TP
FE 03 C9 10 47 23	TA	RDS TA
FE 03 C9 10 4A 26	Power Off	Power Off
FE 03 C9 10 4B 27	Power On	Power On
FE 03 C9 10 4C 28	C	Center
FE 03 C9 10 4D 29	S	Subwoofer
FE 03 C9 10 4E 2A	R	Surround
FE 03 C9 10 4F 2B	Filter (EQ)	Cinema EQ
FE 03 C9 10 52 2E	FL On / Off	FL Display Toggle
FE 03 C9 10 53 2F	Pro Logic / 3 Stereo	Dolby 3 Stereo
FE 03 C9 10 54 30	dts Neo:6	dts Neo:6
FE 03 C9 10 55 31	FM	FM
FE 03 C9 10 56 32	AM	AM
FE 03 C9 10 57 33	Music 1	Music 1
FE 03 C9 10 58 34	Music 2	Music 2
FE 03 C9 10 59 35	Music 3	Music 3
FE 03 C9 10 5A 36	Music 4	Music 4
FE 03 C9 10 5B 37	5Ch Stereo	5Ch Stereo
FE 03 C9 10 5C 38	7Ch Stereo	7Ch Stereo
FE 03 C9 10 5D 39	PLII Cinema	PLII Cinema
FE 03 C9 10 5E 3A	PLII Music	PLII Music
FE 03 C9 10 5F 3B	PLII Emulation	PLII Emulation
FE 03 C9 10 60 3C	dts Neo:6 Music	dts Neo:6 Music
FE 03 C9 10 61 3D	dts Neo:6 Cinema	dts Neo:6 Cinema
FE 03 C9 10 62 3E	PLII Panorama	PLII Panorama

RSX 1550 HEX	Command	Command Description
FE 03 C9 10 63 3F	PLII Dimension Up	PLII Dimension Up
FE 03 C9 10 64 40	PLII Dimension Down	PLII Dimension Down
FE 03 C9 10 65 41	PLII Center Width Up	PLII Center Width Up
FE 03 C9 10 66 42	PLII Center Width Down	PLII Center Width Down
FE 03 C9 10 67 43	Shift (Treble Bass)	Tone Controls
FE 03 C9 10 68 44	DD EX On/Off	DD EX On/Off
FE 03 C9 10 69 45	Tuning Select	Discrete Tune Select
FE 03 C9 10 6A 46	Preset Select	Discrete Preset Select
FE 03 C9 10 6E 4A	Party Mode	Party Mode Toggle
FE 03 C9 10 6F 4B	Preset Up	Tuner Preset Up
FE 03 C9 10 70 4C	Preset Down	Tuner Preset Down
FE 03 C9 10 71 4D	All Zones Off	Power Off All Zones
FE 03 C9 10 72 4E	Frequency Up	Tuner Frequency Up
FE 03 C9 10 73 4F	Frequency Down	Tuner Frequency Down
FE 03 C9 10 74 50	PLII Game	Dolby PLII Game
FE 03 C9 10 75 51	Output Resolution	Output Resolution
FE 03 C9 10 78 54	HDMI Amp Mode	HDMI Amp Mode
FE 03 C9 10 79 55	HDMI TV Mode	HDMI TV Mode
FE 03 C9 10 7C 58	HDMI Bypass Off	HDMI Bypass Off
FE 03 C9 10 7D 59	HDMI Bypass On	HDMI Bypass On
FE 03 C9 10 FF DB	Display Refresh	Display Refresh

Table 1A: Commands Sent with exceptions or modifications required

RSX 1550 HEX	Command Expected	Command Description
FE 03 C9 10 21 FD	FE 03 C9 10 21 FD 00	Preset Scan
FE 03 C9 10 22 FE	FE 03 C9 10 22 FD 01	Surround Mode

The table above list commands with exceptions. To keep the RSX 1550 from encountering the start byte FE in any position other than as the start byte, any occurrence of the bytes FE or FD in the command string must be converted to either FD 00 (for FD) or FD 01 (for FE). This will allow the string to pass while masking any occurrence of the byte FE except as the start byte.

Table 2: Type 14 Main Zone Discrete Command List

It is recommended for multi zone applications that these commands be used for main zone control instead of the type 10 commands above to avoid any potential conflicts with remote zone control.

RSX 1550 HEX	Command	Command Description
FE 03 C9 14 00 E0	Vol+	Main Zone Volume Up
FE 03 C9 14 01 E1	Vol-	Main Zone Volume Down
FE 03 C9 14 02 E2	Main CD	Main Zone Source CD
FE 03 C9 14 03 E3	Main Tuner	Main Zone Source Tuner
FE 03 C9 14 04 E4	Main Tape	Main Zone Source Tape
FE 03 C9 14 05 E5	Main Video 1	Main Zone Source Video 1
FE 03 C9 14 06 E6	Main Video 2	Main Zone Source Video 2
FE 03 C9 14 07 E7	Main Video 3	Main Zone Source Video 3
FE 03 C9 14 08 E8	Main Video 4	Main Zone Source Video 4

RSX 1550 HEX	Command	Command Description
FE 03 C9 14 09 E9	Main Video 5	Main Zone Source Video 5
FE 03 C9 14 0A EA	Main Power	Main Zone Power Toggle
FE 03 C9 14 1E FE	Main Mute	Main Zone Mute
FE 03 C9 14 4A 2A	Main Power Off	Main Zone Power Off
FE 03 C9 14 4B 2B	Main Power On	Main Zone Power On
FE 03 C9 14 6C 4C	Main Mute On	Main Zone Mute On
FE 03 C9 14 6D 4D	Main Mute Off	Main Zone Mute Off

Table 2A: Commands Sent with exceptions or modifications required

RSX 1550 HEX	Command Expected	Command Description
FE 03 C9 14 1E FE	FE 03 C9 14 1E FD 01	Main Zone Mute

The table above list commands with exceptions. To keep the RSX 1550 from encountering the start byte FE in any position other than as the start byte, any occurrence of the bytes FE or FD in the command string must be converted to either FD 00 (for FD) or FD 01 (for FE). This will allow the string to pass while masking any occurrence of the byte FE except as the start byte.

Table 3: Type 15 Record Source Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 15 02 E3	Record CD	Record Source CD
FE 03 C9 15 03 E4	Record Tuner	Record Source Tuner
FE 03 C9 15 04 E5	Record Tape	Record Source Tape
FE 03 C9 15 05 E6	Record Video 1	Record Source Video 1
FE 03 C9 15 06 E7	Record Video 2	Record Source Video 2
FE 03 C9 15 07 E8	Record Video 3	Record Source Video 3
FE 03 C9 15 08 E9	Record Video 4	Record Source Video 4
FE 03 C9 15 09 EA	Record Video 5	Record Source Video 5
FE 03 C9 15 6B 4C	Record Source	Record Source

Table 4: Type 16 Zone 2 Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 16 00 E2	Vol+	Zone 2 Volume Up
FE 03 C9 16 01 E3	Vol-	Zone 2 Volume Down
FE 03 C9 16 02 E4	Zone 2 CD	Zone 2 Source CD
FE 03 C9 16 03 E5	Zone 2 Tuner	Zone 2 Source Tuner
FE 03 C9 16 04 E6	Zone 2 Tape	Zone 2 Source Tape
FE 03 C9 16 05 E7	Zone 2 Video 1	Zone 2 Source Video 1
FE 03 C9 16 06 E8	Zone 2 Video 2	Zone 2 Source Video 2
FE 03 C9 16 07 E9	Zone 2 Video 3	Zone 2 Source Video 3
FE 03 C9 16 08 EA	Zone 2 Video 4	Zone 2 Source Video 4
FE 03 C9 16 09 EB	Zone 2 Video 5	Zone 2 Source Video 5
FE 03 C9 16 0A EC	Zone 2 Power	Zone 2 Power Toggle
FE 03 C9 16 1E 00	Zone 2 Mute	Zone 2 Mute Toggle
FE 03 C9 16 20 02	Zone 2 Tune / Preset	Zone 2 Tune / Preset Toggle
FE 03 C9 16 21 03	Zone 2 Preset Scan	Zone 2 Preset Scan
FE 03 C9 16 24 06	Zone 2 Band	Zone 2 Band

RSX 1550 HEX	Command	Command Description
FE 03 C9 16 26 08	Zone 2 FM Mono	Zone 2 FM Mono
FE 03 C9 16 28 0A	Zone 2 Tune Up	Zone 2 Tune Up
FE 03 C9 16 29 0B	Zone 2 Tune Down	Zone 2 Tune Down
FE 03 C9 16 2A 0C	Zone 2 Preset 1	Zone 2 Preset 1
FE 03 C9 16 2B 0D	Zone 2 Preset 2	Zone 2 Preset 2
FE 03 C9 16 2C 0E	Zone 2 Preset 3	Zone 2 Preset 3
FE 03 C9 16 2D 0F	Zone 2 Preset 4	Zone 2 Preset 4
FE 03 C9 16 2E 10	Zone 2 Preset 5	Zone 2 Preset 5
FE 03 C9 16 2F 11	Zone 2 Preset 6	Zone 2 Preset 6
FE 03 C9 16 30 12	Zone 2 Preset 7	Zone 2 Preset 7
FE 03 C9 16 31 13	Zone 2 Preset 8	Zone 2 Preset 8
FE 03 C9 16 32 14	Zone 2 Preset 9	Zone 2 Preset 9
FE 03 C9 16 33 15	Zone 2 Preset 0	Zone 2 Preset 0
FE 03 C9 16 4A 2C	Zone 2 Power Off	Zone 2 Power Off
FE 03 C9 16 4B 2D	Zone 2 Power On	Zone 2 Power On
FE 03 C9 16 55 37	Zone 2 FM	Zone 2 FM
FE 03 C9 16 56 38	Zone 2 AM	Zone 2 AM
FE 03 C9 16 6B 4D	Zone 2 Source	Zone 2 Source
FE 03 C9 16 6C 4E	Zone 2 Mute On	Zone 2 Mute On
FE 03 C9 16 6D 4F	Zone 2 Mute Off	Zone 2 Mute Off
FE 03 C9 16 6E 50	Party Mode	Party Mode Toggle
FE 03 C9 16 6F 51	Zone 2 Preset Up	Zone 2 Tuner Preset Up
FE 03 C9 16 70 52	Zone 2 Preset Down	Zone 2 Tuner Preset Down
FE 03 C9 16 71 53	All Zones Off	Power Off All Zones
FE 03 C9 16 72 54	Zone 2 Frequency Up	Zone 2 Tuner Frequency Up
FE 03 C9 16 73 55	Zone 2 Frequency Down	Zone 2 Tuner Frequency Down

Table 5: Type 17 Zone 3 Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 17 00 E3	Vol+	Zone 3 Volume Up
FE 03 C9 17 01 E4	Vol-	Zone 3 Volume Down
FE 03 C9 17 02 E5	Zone 3 CD	Zone 3 Source CD
FE 03 C9 17 03 E6	Zone 3 Tuner	Zone 3 Source Tuner
FE 03 C9 17 04 E7	Zone 3 Tape	Zone 3 Source Tape
FE 03 C9 17 05 E8	Zone 3 Video 1	Zone 3 Source Video 1
FE 03 C9 17 06 E9	Zone 3 Video 2	Zone 3 Source Video 2
FE 03 C9 17 07 EA	Zone 3 Video 3	Zone 3 Source Video 3
FE 03 C9 17 08 EB	Zone 3 Video 4	Zone 3 Source Video 4
FE 03 C9 17 09 EC	Zone 3 Video 5	Zone 3 Source Video 5
FE 03 C9 17 0A ED	Zone 3 Power	Zone 3 Power Toggle
FE 03 C9 17 1E 01	Zone 3 Mute	Zone 3 Mute Toggle
FE 03 C9 17 20 03	Zone 3 Tune / Preset	Zone 3 Tune / Preset Toggle
FE 03 C9 17 21 04	Zone 3 Preset Scan	Zone 3 Preset Scan
FE 03 C9 17 24 07	Zone 3 Band	Zone 3 Band
FE 03 C9 17 26 09	Zone 3 FM Mono	Zone 3 FM Mono
FE 03 C9 17 28 0B	Zone 3 Tune Up	Zone 3 Tune Up
FE 03 C9 17 29 0C	Zone 3 Tune Down	Zone 3 Tune Down

RSX 1550 HEX	Command	Command Description
FE 03 C9 17 2A 0D	Zone 3 Preset 1	Zone 3 Preset 1
FE 03 C9 17 2B 0E	Zone 3 Preset 2	Zone 3 Preset 2
FE 03 C9 17 2C 0F	Zone 3 Preset 3	Zone 3 Preset 3
FE 03 C9 17 2D 10	Zone 3 Preset 4	Zone 3 Preset 4
FE 03 C9 17 2E 11	Zone 3 Preset 5	Zone 3 Preset 5
FE 03 C9 17 2F 12	Zone 3 Preset 6	Zone 3 Preset 6
FE 03 C9 17 30 13	Zone 3 Preset 7	Zone 3 Preset 7
FE 03 C9 17 31 14	Zone 3 Preset 8	Zone 3 Preset 8
FE 03 C9 17 32 15	Zone 3 Preset 9	Zone 3 Preset 9
FE 03 C9 17 33 16	Zone 3 Preset 0	Zone 3 Preset 0
FE 03 C9 17 4A 2D	Zone 3 Power Off	Zone 3 Power Off
FE 03 C9 17 4B 2E	Zone 3 Power On	Zone 3 Power On
FE 03 C9 17 55 38	Zone 3 FM	Zone 3 FM
FE 03 C9 17 56 39	Zone 3 AM	Zone 3 AM
FE 03 C9 17 6B 4E	Zone 3 Source	Zone 3 Source
FE 03 C9 17 6C 4F	Zone 3 Mute On	Zone 3 Mute On
FE 03 C9 17 6D 50	Zone 3 Mute Off	Zone 3 Mute Off
FE 03 C9 17 6E 51	Party Mode	Party Mode Toggle
FE 03 C9 17 6F 52	Zone 3 Preset Up	Zone 3 Tuner Preset Up
FE 03 C9 17 70 53	Zone 3 Preset Down	Zone 3 Tuner Preset Down
FE 03 C9 17 71 54	All Zones Off	Power Off All Zones
FE 03 C9 17 72 55	Zone 3 Frequency Up	Zone 3 Tuner Frequency Up
FE 03 C9 17 73 56	Zone 3 Frequency Down	Zone 3 Tuner Frequency Down

Table 6: Type 18 Zone 4 Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 18 00 E4	Vol+	Zone 4 Volume Up
FE 03 C9 18 01 E5	Vol-	Zone 4 Volume Down
FE 03 C9 18 02 E6	Zone 4 CD	Zone 4 Source CD
FE 03 C9 18 03 E7	Zone 4 Tuner	Zone 4 Source Tuner
FE 03 C9 18 04 E8	Zone 4 Tape	Zone 4 Source Tape
FE 03 C9 18 05 E9	Zone 4 Video 1	Zone 4 Source Video 1
FE 03 C9 18 06 EA	Zone 4 Video 2	Zone 4 Source Video 2
FE 03 C9 18 07 EB	Zone 4 Video 3	Zone 4 Source Video 3
FE 03 C9 18 08 EC	Zone 4 Video 4	Zone 4 Source Video 4
FE 03 C9 18 09 ED	Zone 4 Video 5	Zone 4 Source Video 5
FE 03 C9 18 0A EE	Zone 4 Power	Zone 4 Power Toggle
FE 03 C9 18 1E 02	Zone 4 Mute	Zone 4 Mute Toggle
FE 03 C9 18 20 04	Zone 4 Tune / Preset	Zone 4 Tune / Preset Toggle
FE 03 C9 18 21 05	Zone 4 Preset Scan	Zone 4 Preset Scan
FE 03 C9 18 24 08	Zone 4 Band	Zone 4 Band
FE 03 C9 18 26 0A	Zone 4 FM Mono	Zone 4 FM Mono
FE 03 C9 18 28 0C	Zone 4 Tune Up	Zone 4 Tune Up
FE 03 C9 18 29 0D	Zone 4 Tune Down	Zone 4 Tune Down
FE 03 C9 18 2A 0E	Zone 4 Preset 1	Zone 4 Preset 1
FE 03 C9 18 2B 0F	Zone 4 Preset 2	Zone 4 Preset 2
FE 03 C9 18 2C 10	Zone 4 Preset 3	Zone 4 Preset 3

RSX 1550 HEX	Command	Command Description
FE 03 C9 18 2D 11	Zone 4 Preset 4	Zone 4 Preset 4
FE 03 C9 18 2E 12	Zone 4 Preset 5	Zone 4 Preset 5
FE 03 C9 18 2F 13	Zone 4 Preset 6	Zone 4 Preset 6
FE 03 C9 18 30 14	Zone 4 Preset 7	Zone 4 Preset 7
FE 03 C9 18 31 15	Zone 4 Preset 8	Zone 4 Preset 8
FE 03 C9 18 32 16	Zone 4 Preset 9	Zone 4 Preset 9
FE 03 C9 18 33 17	Zone 4 Preset 0	Zone 4 Preset 0
FE 03 C9 18 4A 2E	Zone 4 Power Off	Zone 4 Power Off
FE 03 C9 18 4B 2F	Zone 4 Power On	Zone 4 Power On
FE 03 C9 18 55 39	Zone 4 FM	Zone 4 FM
FE 03 C9 18 56 3A	Zone 4 AM	Zone 4 AM
FE 03 C9 18 6B 4F	Zone 4 Source	Zone 4 Source
FE 03 C9 18 6C 50	Zone 4 Mute On	Zone 4 Mute On
FE 03 C9 18 6D 51	Zone 4 Mute Off	Zone 4 Mute Off
FE 03 C9 18 6E 52	Party Mode	Party Mode Toggle
FE 03 C9 18 6F 53	Zone 4 Preset Up	Zone 4 Tuner Preset Up
FE 03 C9 18 70 54	Zone 4 Preset Down	Zone 4 Tuner Preset Down
FE 03 C9 18 71 55	All Zones Off	Power Off All Zones
FE 03 C9 18 72 56	Zone 4 Frequency Up	Zone 4 Tuner Frequency Up
FE 03 C9 18 73 57	Zone 4 Frequency Down	Zone 4 Tuner Frequency Down

Table 7: Type 30 Volume Direct Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 30 00 FC	Volume Min	Volume Min
FE 03 C9 30 01 FD	Volume 1	Volume 1
FE 03 C9 30 02 FE	Volume 2	Volume 2
FE 03 C9 30 03 FF	Volume 3	Volume 3
FE 03 C9 30 04 00	Volume 4	Volume 4
FE 03 C9 30 05 01	Volume 5	Volume 5
FE 03 C9 30 06 02	Volume 6	Volume 6
FE 03 C9 30 07 03	Volume 7	Volume 7
FE 03 C9 30 08 04	Volume 8	Volume 8
FE 03 C9 30 09 05	Volume 9	Volume 9
FE 03 C9 30 0A 06	Volume 10	Volume 10
FE 03 C9 30 0B 07	Volume 11	Volume 11
FE 03 C9 30 0C 08	Volume 12	Volume 12
FE 03 C9 30 0D 09	Volume 13	Volume 13
FE 03 C9 30 0E 0A	Volume 14	Volume 14
FE 03 C9 30 0F 0B	Volume 15	Volume 15
FE 03 C9 30 10 0C	Volume 16	Volume 16
FE 03 C9 30 20 1C	Volume 32	Volume 32
FE 03 C9 30 30 2C	Volume 48	Volume 48
FE 03 C9 30 40 3C	Volume 64	Volume 64
FE 03 C9 30 50 4C	Volume 80	Volume 80
FE 03 C9 30 5F 5B	Volume 95	Volume 95
FE 03 C9 30 60 5C	Volume Max	Volume Max

Table 7A: Commands Sent with exceptions or modifications required

RSX 1550 HEX	Command Expected	Command Description
FE 03 C9 30 01 FD	FE 03 C9 30 01 FD 00	Volume 1
FE 03 C9 30 02 FE	FE 03 C9 30 02 FD 01	Volume 2

The table above list commands with exceptions. To keep the RSX 1550 from encountering the start byte FE in any position other than as the start byte, any occurrence of the bytes FE or FD in the command string must be converted to either FD 00 (for FD) or FD 01 (for FE). This will allow the string to pass while masking any occurrence of the byte FE except as the start byte.

Table 8: Type 32 Zone 2 Volume Direct Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 32 00 FE	Zone 2 Volume Min	Zone 2 Volume Min
FE 03 C9 32 01 FF	Zone 2 Volume 1	Zone 2 Volume 1
FE 03 C9 32 02 00	Zone 2 Volume 2	Zone 2 Volume 2
FE 03 C9 32 03 01	Zone 2 Volume 3	Zone 2 Volume 3
FE 03 C9 32 04 02	Zone 2 Volume 4	Zone 2 Volume 4
FE 03 C9 32 05 03	Zone 2 Volume 5	Zone 2 Volume 5
FE 03 C9 32 06 04	Zone 2 Volume 6	Zone 2 Volume 6
FE 03 C9 32 07 05	Zone 2 Volume 7	Zone 2 Volume 7
FE 03 C9 32 08 06	Zone 2 Volume 8	Zone 2 Volume 8
FE 03 C9 32 09 07	Zone 2 Volume 9	Zone 2 Volume 9
FE 03 C9 32 0A 08	Zone 2 Volume 10	Zone 2 Volume 10
FE 03 C9 32 0B 09	Zone 2 Volume 11	Zone 2 Volume 11
FE 03 C9 32 0C 0A	Zone 2 Volume 12	Zone 2 Volume 12
FE 03 C9 32 0D 0B	Zone 2 Volume 13	Zone 2 Volume 13
FE 03 C9 32 0E 0C	Zone 2 Volume 14	Zone 2 Volume 14
FE 03 C9 32 0F 0D	Zone 2 Volume 15	Zone 2 Volume 15
FE 03 C9 32 10 0E	Zone 2 Volume 16	Zone 2 Volume 16
FE 03 C9 32 20 1E	Zone 2 Volume 32	Zone 2 Volume 32
FE 03 C9 32 30 2E	Zone 2 Volume 48	Zone 2 Volume 48
FE 03 C9 32 40 3E	Zone 2 Volume 64	Zone 2 Volume 64
FE 03 C9 32 50 4E	Zone 2 Volume 80	Zone 2 Volume 80
FE 03 C9 32 5F 57	Zone 2 Volume 95	Zone 2 Volume 95
FE 03 C9 32 60 58	Zone 2 Volume Max	Zone 2 Volume Max

Table 8A: Commands Sent with exceptions or modifications required

RSX 1550 HEX	Command Expected	Command Description
FE 03 C9 32 00 FE	FE 03 C9 32 00 FD 01	Zone 2 Volume MIN

The table above list commands with exceptions. To keep the RSX 1550 from encountering the start byte FE in any position other than as the start byte, any occurrence of the bytes FE or FD in the command string must be converted to either FD 00 (for FD) or FD 01 (for FE). This will allow the string to pass while masking any occurrence of the byte FE except as the start byte.

Table 9: Type 33 Zone 3 Volume Direct Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 33 00 FF	Zone 3 Volume Min	Zone 3 Volume Min
FE 03 C9 33 01 00	Zone 3 Volume 1	Zone 3 Volume 1
FE 03 C9 33 02 01	Zone 3 Volume 2	Zone 3 Volume 2
FE 03 C9 33 03 02	Zone 3 Volume 3	Zone 3 Volume 3
FE 03 C9 33 04 03	Zone 3 Volume 4	Zone 3 Volume 4
FE 03 C9 33 05 04	Zone 3 Volume 5	Zone 3 Volume 5
FE 03 C9 33 06 05	Zone 3 Volume 6	Zone 3 Volume 6
FE 03 C9 33 07 06	Zone 3 Volume 7	Zone 3 Volume 7
FE 03 C9 33 08 07	Zone 3 Volume 8	Zone 3 Volume 8
FE 03 C9 33 09 08	Zone 3 Volume 9	Zone 3 Volume 9
FE 03 C9 33 0A 09	Zone 3 Volume 10	Zone 3 Volume 10
FE 03 C9 33 0B 0A	Zone 3 Volume 11	Zone 3 Volume 11
FE 03 C9 33 0C 0B	Zone 3 Volume 12	Zone 3 Volume 12
FE 03 C9 33 0D 0C	Zone 3 Volume 13	Zone 3 Volume 13
FE 03 C9 33 0E 0D	Zone 3 Volume 14	Zone 3 Volume 14
FE 03 C9 33 0F 0E	Zone 3 Volume 15	Zone 3 Volume 15
FE 03 C9 33 10 0F	Zone 3 Volume 16	Zone 3 Volume 16
FE 03 C9 33 20 1F	Zone 3 Volume 32	Zone 3 Volume 32
FE 03 C9 33 30 2F	Zone 3 Volume 48	Zone 3 Volume 48
FE 03 C9 33 40 3F	Zone 3 Volume 64	Zone 3 Volume 64
FE 03 C9 33 50 4F	Zone 3 Volume 80	Zone 3 Volume 80
FE 03 C9 33 5F 58	Zone 3 Volume 95	Zone 3 Volume 95
FE 03 C9 33 60 59	Zone 3 Volume Max	Zone 3 Volume Max

Table 10: Type 34 Zone 4 Volume Direct Command List

RSX 1550 HEX	Command	Command Description
FE 03 C9 34 00 00	Zone 4 Volume Min	Zone 4 Volume Min
FE 03 C9 34 01 01	Zone 4 Volume 1	Zone 4 Volume 1
FE 03 C9 34 02 02	Zone 4 Volume 2	Zone 4 Volume 2
FE 03 C9 34 03 03	Zone 4 Volume 3	Zone 4 Volume 3
FE 03 C9 34 04 04	Zone 4 Volume 4	Zone 4 Volume 4
FE 03 C9 34 05 05	Zone 4 Volume 5	Zone 4 Volume 5
FE 03 C9 34 06 06	Zone 4 Volume 6	Zone 4 Volume 6
FE 03 C9 34 07 07	Zone 4 Volume 7	Zone 4 Volume 7
FE 03 C9 34 08 08	Zone 4 Volume 8	Zone 4 Volume 8
FE 03 C9 34 09 09	Zone 4 Volume 9	Zone 4 Volume 9
FE 03 C9 34 0A 0A	Zone 4 Volume 10	Zone 4 Volume 10
FE 03 C9 34 0B 0B	Zone 4 Volume 11	Zone 4 Volume 11
FE 03 C9 34 0C 0C	Zone 4 Volume 12	Zone 4 Volume 12
FE 03 C9 34 0E 0E	Zone 4 Volume 14	Zone 4 Volume 14
FE 03 C9 34 0F 0F	Zone 4 Volume 15	Zone 4 Volume 15
FE 03 C9 34 10 10	Zone 4 Volume 16	Zone 4 Volume 16
FE 03 C9 34 20 20	Zone 4 Volume 32	Zone 4 Volume 32
FE 03 C9 34 30 30	Zone 4 Volume 48	Zone 4 Volume 48

Table 11: Type 40 12V Trigger Direct Command List

The commands below require Main Software V1.2.2 to be installed on the unit to be effective.

RSX 1550 HEX	Command	Command Description
FE 03 C9 40 00 0C	Listen Trigger 1	Listen 12V Trigger 1 Toggle
FE 03 C9 40 01 0D	Listen Trigger 2	Listen 12V Trigger 2 Toggle
FE 03 C9 40 02 0E	Listen Trigger 3	Listen 12V Trigger 3 Toggle
FE 03 C9 40 03 0F	Listen Trigger 4	Listen 12V Trigger 4 Toggle
FE 03 C9 40 04 10	Listen Trigger 5	Listen 12V Trigger 5 Toggle
FE 03 C9 40 05 11	Listen Trigger 6	Listen 12V Trigger 6 Toggle
FE 03 C9 40 06 12	Zone 2 Trigger 1	Zone 2 12V Trigger 1 Toggle
FE 03 C9 40 07 13	Zone 2 Trigger 2	Zone 2 12V Trigger 2 Toggle
FE 03 C9 40 08 14	Zone 2 Trigger 3	Zone 2 12V Trigger 3 Toggle
FE 03 C9 40 09 15	Zone 2 Trigger 4	Zone 2 12V Trigger 4 Toggle
FE 03 C9 40 0A 16	Zone 2 Trigger 5	Zone 2 12V Trigger 5 Toggle
FE 03 C9 40 0B 17	Zone 2 Trigger 6	Zone 2 12V Trigger 6 Toggle
FE 03 C9 40 0C 18	Zone 3 Trigger 1	Zone 3 12V Trigger 1 Toggle
FE 03 C9 40 0D 19	Zone 3 Trigger 2	Zone 3 12V Trigger 2 Toggle
FE 03 C9 40 0E 1A	Zone 3 Trigger 3	Zone 3 12V Trigger 3 Toggle
FE 03 C9 40 0F 1B	Zone 3 Trigger 4	Zone 3 12V Trigger 4 Toggle
FE 03 C9 40 10 1C	Zone 3 Trigger 5	Zone 3 12V Trigger 5 Toggle
FE 03 C9 40 11 1D	Zone 3 Trigger 6	Zone 3 12V Trigger 6 Toggle
FE 03 C9 40 12 1E	Zone 4 Trigger 1	Zone 4 12V Trigger 1 Toggle
FE 03 C9 40 13 1F	Zone 4 Trigger 2	Zone 4 12V Trigger 2 Toggle
FE 03 C9 40 14 20	Zone 4 Trigger 3	Zone 4 12V Trigger 3 Toggle
FE 03 C9 40 15 21	Zone 4 Trigger 4	Zone 4 12V Trigger 4 Toggle
FE 03 C9 40 16 22	Zone 4 Trigger 5	Zone 4 12V Trigger 5 Toggle
FE 03 C9 40 17 23	Zone 4 Trigger 6	Zone 4 12V Trigger 6 Toggle