

2009 ELITE Receivers RS-232C Command list

**For models SC-27
SC-25
VSX-23TXH
VSX-21TXH**

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1-1 SHINOGURA SAIWAIKU KAWASAKI-SHI KANAGAWA 212-0031, JAPAN.

Notice**Notice1**

This equipment save the power consumption (less than 1W) during the standby mode.
To achieve this, main CPU doesn't operate during standby mode.
For this reason, this equipment can not receive the 1st command from rs-232c port.
But main CPU will be waked up by this 1st command.
This equipment is using 1st command "<CR>" as only a trigger to wake up the main CPU
and can not decode 1st command.
Please send command as bellow.
Please make sure to have at least 100msec. Interval between the 1st command and the second command.

```
<CR>          <CR>          <CR>
    ↓            ↓            ↓
100msec Wait   100msec Wait   100msec Wait
    ↓            ↓            ↓
<CR>PO<CR>     <CR>APO<CR>     <CR>BPO<CR>
```

Notice2

It may happen to take time for the set product to respond to the command from your remote controlling system.

Notice3

After set to PANEL LOCK or REMOTE LOCK mode,
"PANEL LOCK" or "REMOTE LOCK" message appear on FL display
when a front panel key or remote control button pushed.

Physical Connection**Connector**

RS232C DB9 Male, Crossover Cable

Pin	AV Receiver
1	*1
2	RXD
3	TXD
4	*1
5	GND
6	*1
7	RTS (BUSY)
8	NC
9	NC

*1 Pin 1&4&6 are shorted each other.

Communication

Communication Speed : 9600bps

Character length: 8bits

Parity:None

Start bit:1bits

Stop bit:1bit

Pioneer AV Receiver Control Commands List

About Automatic Feedback

When the customer changes the status using key on the front panel or the remote controller of AV receiver, AV receiver send new status automatically.

(For ex.) The user changes function on the front panel.
Response from AV receiver : FN**<CR+LF>

Other Automatic Feedback status table.		
AV Receiver	status	Response
POWER		PWR**<CR+LF>
VOLUME		VOL**<CR+LF>
MUTE		MUT**<CR+LF>
INPUT SOURCE		FN**<CR+LF>
LISTENING MODE SET		SR*****<CR+LF>
LISTENING MODE		LM***<CR+LF>
SPEAKERS		SPK**<CR+LF>
HDMI OUTPUT SELECT		HO**<CR+LF>
SBC PROCESSING		EX**<CR+LF>
MCACC MEMORY		MC**<CR+LF>
PHASE CONTROL		IS**<CR+LF>
TONE		TO**<CR+LF>
BASS		BA**<CR+LF>
TREBLE		TR**<CR+LF>
HDMI AUDIO		HA**<CR+LF>
TUNER PRESET		PR****<CR+LF>
TUNER FREQUENCY		FR*****<CR+LF>
XM CHANNEL		XM***<CR+LF>
SIRIUS CHANNEL		SIR***<CR+LF>
ZONE 2 POWER		APR**<CR+LF>
ZONE 3 POWER		BPR**<CR+LF>
ZONE 2 VOLUME		ZV**<CR+LF>
ZONE 3 VOLUME		YV**<CR+LF>
ZONE 2 MUTE		Z2MUT**<CR+LF>
ZONE 3 MUTE		Z3MUT**<CR+LF>
ZONE 2 INPUT		Z2F**<CR+LF>
ZONE 3 INPUT		Z3F**<CR+LF>
PQLS		PQ**<CR+LF>

POWER

Command	Function	Response	Parameter	Example
P0<CR>	POWER ON	PWR*<CR+LF>	0 : ON 1 : OFF	
PF<CR>	POWER OFF			
?P<CR>	Request POWER status.			Command: ?P<CR> Response : PWR0<CR+LF> (now POWER ON)

SC-27 /CUXJCA	SC-25 /CUXJCA	VSX- 23TXH /CUXJCA	VSX- 21TXH /CUXJCA
○	○	○	○
○	○	○	○
○	○	○	○

VOLUME

Command	Function	Response	Parameter	Example
VU<CR>	VOLUME UP	VOL***<CR+LF>	***: 000 to 185 by ASCII code. (1step = 0.5dB)	
VD<CR>	VOLUME DOWN		185 : +12.0dB 184 : +11.5dB 161 : 0.0dB 001 : -80.0dB 000 : ---.dB (MIN)	061VL<CR> (set to -50.0dB.)
***VL<CR>	VOLUME SET			
?V<CR>	Request VOLUME LEVEL.			Command: ?V<CR> Response: VOL160<CR+LF> (VOLUME is set to 0.0dB)

SC-27 /CUXJCA	SC-25 /CUXJCA	23 TXH /CUXJCA	21 TXH /CUXJCA
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

MUTE

Command	Function	Response	Parameter	Example
MO<CR>	MUTE ON	MUT*<CR+LF>	0: ON	
MF<CR>	MUTE OFF		1 : OFF	
?M<CR>	Request MUTE ststus.			Command: ?M<CR> Response:MUT1<CR+LF> (MUTE OFF)

SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
○	○	○	○
○	○	○	○
○	○	○	○

INPUT

Command	Function	Response	Parameter	Example
FN<CR>	INPUT CHANGE	FN*<CR+LF>	04: DVD 25: BD 05: TV/SAT 15: DVR 10: VIDEO 1 14: VIDEO 2 19: HDMI 1 20: HDMI 2 21: HDMI 3 22: HDMI 4 26: HOME MEDIA GALLERY 17: iPod/USB 18: XM RADIO 27: SIRIUS 01: CD 03: CD-R/TAPE 02: TUNER	15FN<CR> (set to DVR.)

		29: AUX 00: PHONO 12: MULTI CH IN 31: HDMI (cyclic)	
FU<CR>	INPUT CHANGE (cyclic)		Command: ?F<CR> Response: FN05<CR+LF> (TV/SAT is selected.)
?F<CR>	Request INPUT source		

LISTENING MODE

There are some modes which is not available depending on the input signal.

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	Z3THX Z1THX
****SR<CR>	LISTENING MODE SET	SR*****<CR+LF>	0001: STEREO (cyclic) 0009: STEREO (direct set) 0151: Auto Level Control (A.L.C.) 0003: Front Stage Surround Advance Focus 0004: Front Stage Surround Advance Wide 0010: STANDARD 0011: (2ch source) 0013: PRO LOGIC2 MOVIE 0018: PRO LOGIC2x MOVIE 0014: PRO LOGIC2 MUSIC 0019: PRO LOGIC2x MUSIC 0015: PRO LOGIC2 GAME 0020: PRO LOGIC2x GAME 0012: PRO LOGIC 0016: Neo:6 CINEMA 0017: Neo:6 MUSIC 0029: NEURAL THX 0028: XM HD SURROUND 0021: (Multi ch source) 0022: (Multi ch source)+DOLBY EX 0023: (Multi ch source)+PRO LOGIC2x MOVIE 0024: (Multi ch source)+PRO LOGIC2x MUSIC 0025: DTS-ES Neo:6 0026: DTS-ES matrix 0027: DTS-ES discrete 0030: DTS-ES 8ch discrete 0100: ADVANCED SURROUND (cyclic) 0101: ACTION 0103: DRAMA 0102: SCI-FI 0105: MONO FILM 0104: ENTERTAINMENT SHOW 0106: EXPANDED THEATER 0116: TV SURROUND 0118: ADVANCED GAME 0117: SPORTS 0107: CLASSICAL 0110: ROCK/POP 0109: UNPLUGGED 0112: EXTENDED STEREO 0113: PHONES SURROUND 0050: THX (cyclic) 0051: PROLOGIC + THX CINEMA 0052: PL2 MOVIE + THX CINEMA 0053: Neo:6 CINEMA + THX CINEMA 0054: PL2x MOVIE + THX CINEMA 0055: THX SELECT2 GAMES 0068: THX CINEMA (for 2ch) 0069: THX MUSIC (for 2ch) 0070: THX GAMES (for 2ch) 0071: PL2 MUSIC + THX MUSIC 0072: PL2x MUSIC + THX MUSIC 0073: Neo:6 MUSIC + THX MUSIC 0074: PL2 GAME + THX GAMES 0075: PL2x GAME + THX GAMES 0076: THX ULTRA2 GAMES 0077: PROLOGIC + THX MUSIC 0078: PROLOGIC + THX GAMES 0056: THX CINEMA (for multi ch) 0057: THX SURROUND EX 0058: PL2x MOVIE + THX CINEMA 0059: ES Neo:6 + THX CINEMA 0060: ES MATRIX + THX CINEMA 0061: ES DISCRETE + THX CINEMA 0067: ES 8ch DISCRETE + THX CINEMA 0062: THX SELECT2 CINEMA 0063: THX SELECT2 MUSIC 0064: THX SELECT2 GAMES 0065: THX ULTRA2 CINEMA 0066: THX ULTRA2 MUSIC 0079: THX ULTRA2 GAMES 0080: THX MUSIC (for multi ch) 0081: THX GAMES (for multi ch) 0082: PLIX MUSIC + THX MUSIC 0083: EX + THX GAMES 0084: Neo:6 + THX MUSIC 0085: Neo:6 + THX GAMES 0086: ES MATRIX + THX MUSIC 0087: ES MATRIX + THX GAMES 0088: ES DISCRETE + THX MUSIC 0089: ES DISCRETE + THX GAMES	0102SR<CR> (set to SCI-FI mode.) 0008SR<CR> (set to PURE DIRECT mode.)	x o o o o o o	x o o o o o o	x o o o o o o

215: THX ULTRA2 GAMES	○	×	×	×
216: PRO LOGICII GAME + THX GAMES	○	○	○	○
219: HDMI THROUGH	○	○	○	○
220: PRO LOGIC + THX CINEMA	○	○	○	○
221: PRO LOGICII MOVIE + THX CINEMA	○	○	○	○
222: Neo:6 CINEMA + THX CINEMA	○	○	○	○
224: THX SELECT2 GAMES (for 2ch)	×	○	○	○
225: PRO LOGICII MUSIC + THX MUSIC	○	○	○	○
226: PRO LOGICIIx MUSIC + THX MUSIC	○	○	○	○
227: Neo:6 MUSIC + THX MUSIC	○	○	○	○
228: PRO LOGIC + THX MUSIC	○	○	○	○
229: PRO LOGIC + THX GAMES	○	○	○	○
230: DOLBY D + PLIIx MOVIE + THX CINEMA	○	○	○	○
231: DTS + PIIx MOVIE + THX CINEMA	○	○	○	○
232: DTS-ES MATRIX6.1 + THX CINEMA	○	○	○	○
233: DTS-ES DISCRETE6.1 + THX CINEMA	○	○	○	○
234: MPEG-2 AAC + PLIIx MOVIE + THX CINEMA	○	○	○	○
235: WMA 9 Pro + PLIIx MOVIE + THX CINEMA	○	○	○	○
236: THX SELECT2 CINEMA	×	○	○	○
237: THX SELECT2 GAMES	×	○	○	○
238: PCM + PLIIx MOVIE + THX CINEMA	○	○	○	○
239: DTS-(HD)ES 8ch Discrete +THX CINEMA	○	○	○	○
240: DTS-(HD)ES Discrete +THX CINEMA	○	○	○	○
241: DTS-(HD)ES Matrix +THX CINEMA	○	○	○	○
242: PCM + PLIIx MUSIC + THX MUSIC	○	○	○	○
243: PCM + DOLBY EX + THX GAMES	○	○	○	○
244: DOLBY D + PLIIx MUSIC + THX MUSIC	○	○	○	○
245: DOLBY DIGITAL EX + THX GAMES	○	○	○	○
246: DTS + PLIIx MUSIC + THX MUSIC	○	○	○	○
248: DTS-(HD)ES Matrix	○	○	○	○
249: DTS-(HD)ES Discrete	○	○	○	○
280: SACD + PRO LOGIC	○	○	○	○
281: SACD + PRO LOGICII MOVIE	○	○	○	○
282: SACD + PRO LOGICII MUSIC	○	○	○	○
283: SACD + PRO LOGICII GAME	○	○	○	○
284: SACD + PRO LOGICIIx MOVIE (for 2ch)	○	○	○	○
285: SACD + PRO LOGICIIx MUSIC (for 2ch)	○	○	○	○
286: SACD + PRO LOGICIIx GAME	○	○	○	○
287: SACD + PRO LOGICIIx MOVIE (for multi ch)	○	○	○	○
288: SACD + PRO LOGICIIx MUSIC (for multi ch)	○	○	○	○
322: DTS 96/24 STEREO	○	○	○	○
324: DTS + Neo:6	○	○	○	○
330: PCM +EX	○	○	○	○
333: PCM + PRO LOGICIIx MOVIE (for multi ch)	○	○	○	○
334: PCM + PRO LOGICIIx MUSIC (for multi ch)	○	○	○	○
340: SACD	○	○	○	○
342: SACD STEREO	○	○	○	○
344: SACD +EX	○	○	○	○
371: DTS 96/24 + Neo:6	○	○	○	○
372: DTS 96/24 ES MATRIX	○	○	○	○
380: WMA 9 PRO	○	○	○	○
382: WMA 9 PRO + EX	○	○	○	○
384: WMA 9 Pro + PRO LOGICIIx MOVIE	○	○	○	○
385: WMA 9 Pro + PRO LOGICIIx MUSIC	○	○	○	○
390: DTS + Neo:6 + THX MUSIC	○	○	○	○
391: DTS + Neo:6 + THX GAMES	○	○	○	○
392: DTS-ES MATRIX6.1 + THX MUSIC	○	○	○	○
393: DTS-ES MATRIX6.1 + THX GAMES	○	○	○	○
394: DTS-ES DISCRETE6.1 + THX MUSIC	○	○	○	○
395: DTS-ES DISCRETE6.1 + THX GAMES	○	○	○	○
396: DTS-(HD)ES 8ch Discrete +THX MUSIC	○	○	○	○
397: DTS-(HD)ES 8ch Discrete +THX GAMES	○	○	○	○
398: DTS-(HD)ES Discrete +THX MUSIC	○	○	○	○
399: DTS-(HD)ES Discrete +THX GAMES	○	○	○	○
400: DTS-(HD)ES Matrix +THX MUSIC	○	○	○	○
401: DTS-(HD)ES Matrix +THX GAMES	○	○	○	○
402: MPEG-2 AAC + PLIIx MUSIC + THX MUSIC	○	○	○	○
403: MPEG-2 AAC + DOLBY EX + THX GAMES	○	○	○	○
404: WMA 9 Pro + PLIIx MUSIC + THX MUSIC	○	○	○	○
405: WMA 9 Pro + DOLBY EX + THX GAMES	○	○	○	○
408: DOLBY D PLUS +PLIIx MUSIC +THX MUSIC	○	○	○	○
409: DOLBY D PLUS + DOLBY EX + THX GAMES	○	○	○	○
410: DOLBY True HD + PLIIx MUSIC +THX MUSIC	○	○	○	○
411: DOLBY True HD + DOLBY EX + THX GAMES	○	○	○	○

TONE CONTROL

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
TO<CR>	TONE ON/BYPASS	TO*<CR+LF>	0: BYPASS 1: ON	Command: ?TO<CR> Response: TO0<CR+LF> (now TONE BYPASS.)	○	○	○	○
?TO<CR>	Request TONE status				○	○	○	○
BI<CR>	BASS INCREMENT	BA**<CR+LF>			○	○	○	○
BD<CR>	BASS DECREMENT				○	○	○	○
?BA<CR>	Request BASS status		**: 00 to 12 by ASCII code. (1step=1dB) 00: +6dB 06: 0dB 12: -6dB	Command: ?BA<CR> Response: BA02<CR+LF> (BASS is set to +4dB.)	○	○	○	○
TI<CR>	TREBLE INCREMENT	TR**<CR+LF>			○	○	○	○
TD<CR>	TREBLE DECREMENT				○	○	○	○
?TR<CR>	Request TREBLE status			Command: ?TR<CR> Response: TR10<CR+LF> (TREBLE is set to -4dB.)	○	○	○	○

DSP FUNCTION

Command	Function	Response	Parameter	Example
MC<CR>	MCACC MEMORY SET	MC<CR+LF>		
?MC<CR>	Request MCACC MEMORY status		0: MCACC MEMORY (cyclic) 1: MEMORY 1 2: MEMORY 2 3: MEMORY 3 4: MEMORY 4 5: MEMORY 5 6: MEMORY 6	Command: ?MC<CR> Response: MC3<CR+LF> (now MEMORY 3 is selected.)
EX<CR>	SBch PROCESSING SET	EX<CR+LF>		
?EX<CR>	Request SBch PROCESSING status		0: OFF 1: ON 2: AUTO	Command: ?EX<CR> Response: EX2<CR+LF> (now AUTO is selected.)
IS<CR>	PHASE CONTROL	IS<CR+LF>		
?IS<CR>	Request PHASE CONTROL status		0: PHASE CONTROL OFF 1: PHASE CONTROL ON 2: FULL BAND PHASE CONTROL ON	Command: ?IS<CR> Response: IS1<CR+LF> (now PHASE CONTROL ON is selected.)

AMP FUNCTION

Command	Function	Response	Parameter	Example
SPK<CR>	SPEAKERS	SPK<CR+LF>		
?SPK<CR>	Request SPEAKERS status		0: SPEAKER OFF 1: SPEAKER A ON 2: SPEAKER B ON 3: SPEAKER A+B ON	Command: ?SPK<CR> Response: SPK1<CR+LF> (now SPEAKER A ON.)
HO<CR>	HDMI OUTPUT SELECT	HO<CR+LF>		
?HO<CR>	Request HDMI OUTPUT status		0: HDMI OUT ALL 1: HDMI OUT 1 2: HDMI OUT 2	Command: ?HO<CR> Response: HO0<CR+LF> (now HDMI OUT ALL is selected.)
HA<CR>	HDMI AUDIO	HA<CR+LF>		
?HA<CR>	Request HDMI AUDIO status		0: AMP 1: THROUGH	Command: ?HA<CR> Response: HA0<CR+LF> (now AMP is selected.)
PQ<CR>	PQLS	PQ<CR+LF>		
?PQ<CR>	Request PQLS setting status		0: OFF 1: AUTO	Command: ?PQ<CR> Response: PQ0<CR+LF> (now PQLS setting OFF is selected.)

SC-27 /CUUXJCA	SC-25 /CUUXJCA	23TXH /CUUXJCA	21TXH /CUUXJCA
○	○	○	○
○	○	○	○
○	○	○	×
○	○	○	×
○	○	○	○
○	○	○	○
○	○	○	○

KEY LOCK

Command	Function	Response	Parameter	Example
PKL<CR>	PANEL KEY LOCK	PKL<CR+LF>		*PKL<CR>
?PKL<CR>	Request PANEL KEY LOCK status		0: PANEL KEY LOCK (& VOLUME) OFF 1: PANEL KEY LOCK ON 2: PANEL KEY & VOLUME LOCK ON	Command: ?PKL<CR> Response: PKL1<CR+LF> (now PANEL KEY LOCK ON.)
RML<CR>	REMOTE LOCK	RML<CR+LF>		*RML<CR>
?RML<CR>	Request REMOTE LOCK status		0: REMOTE LOCK OFF 1: REMOTE LOCK ON	Command: ?RML<CR> Response: RML1<CR+LF> (now REMOTE LOCK ON.)

SC-27 /CUXJCA	SC-25 /CUUXJCA	23TXH	21TXH
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

CURSOR OPERATION

Command	Function	Response	Parameter	Example
STS<CR>	STATUS DISPLAY	R<CR+LF>		
CUP<CR>	AMP CURSOR UP	R<CR+LF>		
CDN<CR>	AMP CURSOR DOWN	R<CR+LF>		
CRI<CR>	AMP CURSOR RIGHT	R<<CR+LF>		
CLE<CR>	AMP CURSOR LEFT	R<CR+LF>		
CEN<CR>	AMP CURSOR ENTER	R<CR+LF>		
CRT<CR>	AMP RETURN	R<CR+LF>		
APA<CR>	AUDIO PARAMETER	R<CR+LF>		
VPA<CR>	VIDEO PARAMETER	R<CR+LF>		
KOF<CR>	KEY OFF (for iPod, NETWORK)	R<CR+LF>	When this equipment continue command mode after sending the operation command, it needs to send "KOF" command.	

About "KOF<CR>" command :

ZONE POWER

Command	Function	Response	Parameter	Example
APO<CR>	ZONE 2 POWER ON	APR*<CR+LF>	0: ON 1: OFF	
APF<CR>	ZONE 2 POWER OFF			
?AP<CR>	Request ZONE 2 POWER status			Command: ?AP<CR> Response: APR0<CR+LF> (ZONE 2 POWER ON)
BPO<CR>	ZONE 3 POWER ON	BPR*<CR+LF>		
BPF<CR>	ZONE 3 POWER OFF			
?BP<CR>	Request ZONE 3 POWER status			Command: ?BP<CR> Response: BPR1<CR+LF> (ZONE 3 POWER OFF)

SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUWJCA	21TXH /CUWJCA
○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	×
○	○	○	×
○	○	○	×

ZONE INPUT

Command	Function	Response	Parameter	Example
ZSCR>	ZONE 2 INPUT CHANGE	Z2F<CR+LF>	04: DVD	02ZS<CR>

			05: TV/SAT 15: DVR 10: VIDEO 1 14: VIDEO 2 26: HOME MEDIA GALLERY 17: iPod/USB 18: XM RADIO 27: SIRIUS 01: CD 03: CD-R/TAPE 02: TUNER 29: AUX	(change to TUNER INPUT.)	
?ZS<CR>	Request ZONE 2 INPUT			Command: ?ZS<CR> Response: Z2F04<CR+LF> (DVD is selected.)	
ZT<CR>	ZONE 3 INPUT CHANGE	Z3F<CR+LF>	04: DVD 05: TV/SAT 15: DVR 10: VIDEO 1 14: VIDEO 2 26: HOME MEDIA GALLERY 17: iPod/USB 18: XM RADIO 27: SIRIUS 01: CD 03: CD-R/TAPE 02: TUNER 29: AUX	03TS<CR> (change to CD-R)	
?ZT<CR>	Request ZONE 3 INPUT			Command: ?ZT<CR> Response: Z2F01<CR+LF> (CD is selected.)	

ZONE VOLUME

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
ZU<CR>	ZONE 2 VOLUME UP	ZV**<CR+LF>			○	○	○	○
ZD<CR>	ZONE 2 VOLUME DOWN				○	○	○	○
**ZV<CR>	ZONE 2 VOLUME SET		**: 00 to 81 by ASCII code. (1step=1dB)		○	○	○	○
?ZV<CR>	Request ZONE 2 VOLUME LEVEL.		81: 0.0dB 01: -80.0dB 00: ---dB(MIN)	14ZV<CR> (set ZONE 2 VOLUME to -67.0dB)	○	○	○	○
YU<CR>	ZONE 3 VOLUME UP	YV**<CR+LF>		Command: ?ZV<CR> Response: ZV14<CR+LF> (ZONE 2 VOLUME is set to -67.0dB)	○	○	○	○
YD<CR>	ZONE 3 VOLUME DOWN				○	○	○	○
**YV<CR>	ZONE 3 VOLUME SET			25YV<CR> (set ZONE 3 VOLUME -56.0dB)	○	○	○	○
?YV<CR>	Request ZONE 3 VOLUME LEVEL.			Command: ?YV<CR> Response: YV25<CR+LF> (ZONE 3 VOLUME is set to -56.0dB)	○	○	○	○

ZONE MUTE

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
Z2MO<CR>	ZONE 2 MUTE ON	Z2MUT*<CR+LF>	0: ON		○	○	○	○
Z2MF<CR>	ZONE 2 MUTE OFF		1: OFF		○	○	○	○
?Z2M<CR>	Request ZONE 2 MUTE status			Command: ?Z2M<CR> Response: Z2MUT1<CR+LF> (now ZONE 2 MUTE OFF)	○	○	○	○
Z3MO<CR>	ZONE 3 MUTE ON	Z3MUT*<CR+LF>			○	○	○	○
Z3MF<CR>	ZONE 3 MUTE OFF				○	○	○	○
?Z3M<CR>	Request ZONE 2 MUTE status			Command: ?Z3M<CR> Response: Z3MUTO<CR+LF> (now ZONE 3 MUTE ON)	○	○	○	○

TUNER

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
TFI<CR>	TUNER FREQ INCREMENT	FR*****<CR+LF>			○	○	○	○
TFD<CR>	TUNER FREQ DECREMENT				○	○	○	○
?FR<CR>	Request TUNER FREQUENCY		A: AM F: FM FREQUENCY: 0 to 9 by ASCII code A00530=AM 530kHz A01700=AM 1700kHz F08750=FM 87.50MHz F10800=FM 108.00MHz	Command: ?FR<CR> Response: FRF08800<CR+LF> (now FM 88.00MHz)	○	○	○	○
TB<CR>	TUNER BAND				○	○	○	○
*TP<CR>	TUNER PRESET	PR***<CR+LF>	*: 0 to 9 by ASCII code.	8TP<CR> (set to preset number 8.)	○	○	○	○
TC<CR>	TUNER CLASS change				○	○	○	○
TPI<CR>	TUNER PRESET INCREMENT		A01: CLASS "A", NUMBER 1 ... G09: CLASS "G", NUMBER 9		○	○	○	○
TPD<CR>	TUNER PRESET DECREMENT		(CLASS = A to G, NUMBER = 01 to 09)	Command: ?PR<CR> Response: PRB04<CR+LF> (now tuner preset No. is B4)	○	○	○	○
?PR<CR>	Request TUNER PRESET NO.				○	○	○	○

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
00XM	0 (number key)	XM***<CR+LF>	***: Channel number by ASCII code.		○	○	○	○
01XM	1 (number key)	(↑ when change channel)			○	○	○	○
02XM	2 (number key)				○	○	○	○
03XM	3 (number key)				○	○	○	○
04XM	4 (number key)				○	○	○	○
05XM	5 (number key)				○	○	○	○
06XM	6 (number key)				○	○	○	○
07XM	7 (number key)				○	○	○	○
08XM	8 (number key)				○	○	○	○
09XM	9 (number key)				○	○	○	○
10XM	CH + / Cursor DOWN↓				○	○	○	○
11XM	CH - / Cursor UP↑				○	○	○	○
12XM	PRESET ST + (→)				○	○	○	○
13XM	PRESET ST - (←)				○	○	○	○
14XM	DISPLAY				○	○	○	○
15XM	RESET				○	○	○	○
16XM	CLASS				○	○	○	○
17XM	DIRECT ACCESS (CH)				○	○	○	○
18XM	MEMORY (EDIT)				○	○	○	○
19XM	MENU				○	○	○	○
21XM	ENTER				○	○	○	○
22XM	RETURN				○	○	○	○
23XM	CATEGORY				○	○	○	○
?XM<CR>	Request XM channel No.			Command: ?XM<CR> Response: XM025<CR+LF> (now channel 25 is selected.)	○	○	○	○

Sirius Operation (USA model only)

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
00SI	0 (number key)	SIR****<CR+LF>	****: Channel number by ASCII code.		○	○	○	○
01SI	1 (number key)		(↑ when change channel)		○	○	○	○
02SI	2 (number key)				○	○	○	○
03SI	3 (number key)				○	○	○	○
04SI	4 (number key)				○	○	○	○
05SI	5 (number key)				○	○	○	○
06SI	6 (number key)				○	○	○	○
07SI	7 (number key)				○	○	○	○
08SI	8 (number key)				○	○	○	○
09SI	9 (number key)				○	○	○	○
10SI	CH + / Cursor DOWN↓				○	○	○	○
11SI	CH - / Cursor UP↑				○	○	○	○
12SI	PRESET ST + (→)				○	○	○	○
13SI	PRESET ST - (←)				○	○	○	○
14SI	DISPLAY				○	○	○	○
15SI	RESET				○	○	○	○
16SI	CLASS				○	○	○	○
17SI	DIRECT ACCESS (CH)				○	○	○	○
18SI	MEMORY (EDIT)				○	○	○	○
19SI	MENU				○	○	○	○
21SI	ENTER				○	○	○	○
22SI	RETURN				○	○	○	○
23SI	CATEGORY				○	○	○	○
?SIR<CR>	Request SIRIUS channel No.			Command: ?SIR<CR> Response: SIR019<CR+LF> (now channel 19 is selected.)	○	○	○	○

iPod Operation

Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	23TXH /CUXJCA	21TXH /CUXJCA
00IP	PLAY	R<CR+LF>			○	○	○	○
01IP	PAUSE				○	○	○	○
02IP	STOP*				○	○	○	○
03IP	PREVIOUS (< <)				○	○	○	○
04IP	NEXT (> >)				○	○	○	○
05IP	REV (< <)				○	○	○	○
06IP	FWD (> >)				○	○	○	○
07IP	REPEAT				○	○	○	○
08IP	SHUFFLE				○	○	○	○
09IP	DISPLAY				○	○	○	○
10IP	iPod CONTROL				○	○	○	○
13IP	Cursor UP				○	○	○	○
14IP	Cursor DOWN				○	○	○	○
15IP	Cursor RIGHT				○	○	○	○
16IP	Cursor LEFT				○	○	○	○
17IP	ENTER				○	○	○	○
18IP	RETURN				○	○	○	○
19IP	TOP MENU				○	○	○	○

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Command	Function	Response	Parameter	Example	SC-27 /CUXJCA	SC-25 /CUXJCA	TXH /CUXJCA	TXH /CUXJCA
00NW	0 (number key)	R<CR+LF>			○	○	×	×
01NW	1 (number key)				○	○	×	×
02NW	2 (number key)				○	○	×	×
03NW	3 (number key)				○	○	×	×
04NW	4 (number key)				○	○	×	×
05NW	5 (number key)				○	○	×	×
06NW	6 (number key)				○	○	×	×

07NW	7 (number key)
08NW	8 (number key)
09NW	9 (number key)
10NW	PLAY
11NW	PAUSE
12NW	PREVIOUS ((< <)
13NW	NEXT ((> >)
18NW	DISPLAY
20NW	STOP
26NW	UP
27NW	DOWN
28NW	RIGHT
29NW	LEFT
30NW	ENTER
31NW	RETURN
32NW	PROGRAM
33NW	CLEAR
34NW	REPEAT
35NW	RANDOM
36NW	MENU
37NW	EDIT
38NW	CLASS

Error message

Error Mess	Error Name	Meaning	Example
E04<CR+LF>	COMMAND ERROR	Detect inappropriate Command line.	Command:ABCD<CR> Response:E04<CR+LF> (unknown "ABCD" Command.)
E06<CR+LF>	PARAMETER ERROR	Detect inappropriate Parameter.	Command:99FN<CR> Response:E06<CR+LF> (unknown "99" Parameter.)
B00<CR+LF>	BUSY	Now AV Receiver is Busy. Please wait few seconds.	

SC-27 /CUXJCA	SC-25 /CUXJCA	TXH /CUXJCA	TXH /CUXJCA
○	○	○	○
○	○	○	○
○	○	○	○