Proneer seeing and hearing like never before

VSX-9130TXH

RS-232C Protocol

June 2008

Version 0.01.00

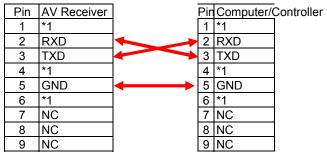
For Custom Installation

Physical Cable Connection

Connector

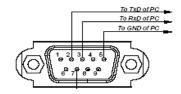
RS232C DB9 Male

Pioneer A/V Receivers use a "crossover" (aka/"null modem" or "twisted pair") cable.



*PinS 1, 4, & 6 are shorted to each other.

RECEIVER PINOUTS



Communication

Communication Speed: 9600bps

Protocol Type: 8data bits,1stop bit,no parity

Notice1

To meet stringent power conservation measures Pioneer A/V receivers consume less than 1 Watt when in the "Standby" or "Off" mode.

To achieve this the main CPU doesn't operate in Standby/Off.

For this reason the receiver may not understand the first command send to it's the RS-232C port but the main CPU will "wake up" with the first command.

In other words, the receiver is using the first command as a trigger to wake up the main CPU and may not respond correctly to it.

For the proper execution of the first command please send the command twice.

Also, please make sure to have at least a 100msec. interval between the first and second command.

Example1

Notice2

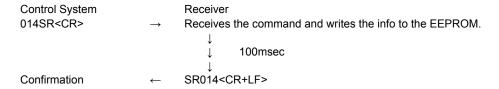
It takes a brief amount of time for the receiver to respond to a command like "Surround Mode" from your control system.

When the receiver receives a command it writes that information to the EEPROM.

Accordingly, you have to keep at least 100msec. before you do a "TIMEOUT" after sending the command to the receiver.

Example2

SR: The receiver's response to the command for PRO LOGIC II MUSIC.



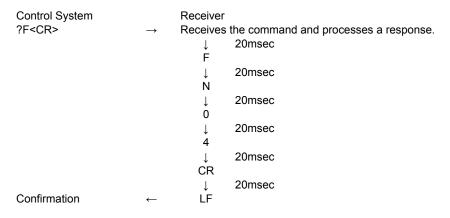
Notice3

The interval between each response sent from the receiver is 20msec.

Therefore you have to wait at least 20msec. before a "TIMEOUT".

Example3

?F: Responding to a request for the current function (input).



VSX-9130TXH RS-232C Commands List

Automatic Feedback

When the input or function status is changed using buttons on the front panel or the remote control of the receiver, the receiver will send it's new status automatically. (VOLXX,PWRX,MUTX,FNXX,SRXXXX,LMXXX)

(For example) The user changes a function on the front panel. Receiver sends: FNXX<CR+LF>

All commands and requests must be followed by a Carriage Return <CR>

X:Argument:ASC code

These commands can be operated only in STEREO MODE..

Status	Request	Com	mand

Command	Command Name	Argument	operation	Answer
?V <cr></cr>	VOLUME LEVEL STATUS REQUEST		Return the VOLUME LEVEL	VOLXX <cr+lf> *1</cr+lf>
?P <cr></cr>	POWER STATUS REQUEST		Return the POWER status	PWRX <cr+lf> *2</cr+lf>
?M <cr></cr>	MUTE STATUS REQUEST		Return the MUTE status	MUTX <cr+lf> *2</cr+lf>
?F <cr></cr>	FUNCTION MODE REQUEST		Return the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
?S <cr></cr>	LISTENING MODE SETTING REQUEST		Return the L.M SETTING	SRXXXX <cr+lf> *4</cr+lf>
?L <cr></cr>	LISTENING MODE REQUEST		Return the L.M	LMXXX <cr+lf> *5</cr+lf>
?TO <cr></cr>	TONE STATUS REQUEST		Return the TONE status	TOX <cr+lf> *6</cr+lf>
?BA <cr></cr>	BASS STATUS REQUEST		Return the BASS Level	BAXX <cr+lf> *7</cr+lf>
?TR <cr></cr>	TREBLE STATUS REQUEST		Return the TREBLE Level	TRXX <cr+lf> *8</cr+lf>
?PR <cr></cr>	TUNER PRESET REQUEST		Return the PRESET number	PRXXX <cr+lf> *9</cr+lf>
?FR <cr></cr>	TUNER FREQ REQUEST		Return the FREQ number	FRXXXXXX <cr+lf> *10</cr+lf>
?AP <cr></cr>	ZONE 2 POWER STATUS REQUEST		Return the POWER status	APRX <cr+lf> *2</cr+lf>
?ZS <cr></cr>	ZONE 2 FUNCTION STATUS REQUEST		Return the FUNCTION MODE	Z2FXX <cr+lf> *3</cr+lf>
?ZV <cr></cr>	ZONE 2 VOLUME STATUS REQUEST		Return the VOLUME LEVEL	ZVXX <cr+lf> *1</cr+lf>
?MC <cr></cr>	MCACC POSITION REQUEST		Return the MCACC POSITION status	MCX <cr+lf> *15</cr+lf>
?EX <cr></cr>	SBch PROCESSING STATUS REQUEST		Return the SBch PROCESSING status	EXXX <cr+lf> *14</cr+lf>
?XM <cr></cr>	XM channel REQUEST (USA model)	000-255	Return XM channel	XMXXX <cr+lf></cr+lf>
?IS <cr></cr>	PHASE CONTROL STATUS REQUEST		Return PHASE CONTROL STATUS	ISX <cr+lf>*16</cr+lf>
?SI <cr></cr>	Sirius channel REQUEST (USA model)	000-255	Return Sirius channel	SIXXX <cr+lf></cr+lf>

Operation command

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Command	Command Name	Argument	Operation	Answer
VU <cr></cr>	VOLUME UP		VOLUME UP	VOLXX <cr+lf> *1</cr+lf>
VD <cr></cr>	VOLUME DOWN		VOLUME DOWN	VOLXX <cr+lf> *1</cr+lf>
XXVL <cr></cr>	VOLUME SET	00-93 *1	Set the VOLUME level	VOLXX <cr+lf> *1</cr+lf>
PO <cr></cr>	POWER ON		POWER ON	PWRX <cr+lf> *2</cr+lf>
PF <cr></cr>	POWER OFF		POWER OFF	PWRX <cr+lf> *2</cr+lf>
MO <cr></cr>	MUTE ON		MUTE ON	MUTX <cr+lf> *2</cr+lf>
MF <cr></cr>	MUTE OFF		MUTE OFF	MUTX <cr+lf> *2</cr+lf>
XXFN <cr></cr>	FUNCTION MODE SET	*3	Set the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
FU <cr></cr>	FUNCTION MODE UP		Change the FUNCTION MODE	FNXX <cr+lf> *3</cr+lf>
XXX(X)SR <cf< td=""><td>R>LISTENING MODE SET</td><td>*4</td><td>Change the LISTENING MODE</td><td>SRXXX(X)<cr+lf> *4</cr+lf></td></cf<>	R>LISTENING MODE SET	*4	Change the LISTENING MODE	SRXXX(X) <cr+lf> *4</cr+lf>
BI <cr></cr>	BASS INCREMENT		BASS INCREMENT	BAXX <cr+lf> *7</cr+lf>
BD <cr></cr>	BASS DECREMENT		BASS DECREMENT	BAXX <cr+lf> *7</cr+lf>
TI <cr></cr>	TREBLE INCREMENT		TREBLE INCREMENT	TRXX <cr+lf> *8</cr+lf>
TD <cr></cr>	TREBLE DECREMENT		TREBLE DECREMENT	TRXX <cr+lf> *8</cr+lf>
TB <cr></cr>	TUNER BAND		change the BAND (AM/FM)	FRXXXXX <cr+lf> *10</cr+lf>
XTP <cr></cr>	TUNER PRESET	0-9	change the TUNER PRESET	PRXXX <cr+lf> *9</cr+lf>
TC <cr></cr>	TUNER CLASS		change the TUNER CLASS	PRXXX <cr+lf> *9</cr+lf>
TPI <cr></cr>	TUNER PRESET INCREMENT		TUNER PRESET INCREMENT	PRXXX <cr+lf> *9</cr+lf>
TPD <cr></cr>	TUNER PRESET DECREMENT		TUNER PRESET DECREMENT	PRXXX <cr+lf> *9</cr+lf>
TFI <cr></cr>	TUNER FREQ INCREMENT		TUNER FREQ INCREMENT	FRXXXXXX <cr+lf> *10</cr+lf>
TFD <cr></cr>	TUNER FREQ DECREMENT		TUNER FREQ DECREMENT	FRXXXXXX <cr+lf> *10</cr+lf>
XXZS <cr></cr>	ZONE2 FUNCTION MODE SET	*3	Set the FUNCTION MODE	Z2FXX <cr+lf> *3</cr+lf>
ZU <cr></cr>	ZONE2 VOLUME UP		VOLUME UP	ZVXX <cr+lf> *1</cr+lf>
ZD <cr></cr>	ZONE2 VOLUME DOWN		VOLUME DOWN	ZVXX <cr+lf> *1</cr+lf>
APO <cr></cr>	ZONE2 POWER ON		ZONE2 POWER ON	APRX <cr+lf> *2</cr+lf>
APF <cr></cr>	ZONE2 POWER OFF		ZONE2 POWER OFF	APRX <cr+lf> *2</cr+lf>
XMC <cr></cr>	MCACC POSITION	0,1,2,3,4,5,6	change the MCACC POSITION	MCX <cr+lf> *15</cr+lf>
XXEX <cr></cr>	SBch PROCESSING SET	0,1,2	Change EXTENDED MODE	EXXX <cr+lf> *14</cr+lf>
STS <cr></cr>	STATUS DISPLAY		to see OSD display	R
XIS <cr></cr>	PHASE CONTROL	0,1,2	PHASE CONTROL ON/OFF	ISX <cr+lf>*16</cr+lf>
CUP <cr></cr>	AMP CURSOR UP		AMP CURSOR UP	R
CDN <cr></cr>	AMP CURSOR DOWN		AMP CURSOR DOWN	R
CRI <cr></cr>	AMP CURSOR RIGHT		AMP CURSOR RIGHT	R
CLE <cr></cr>	AMP CURSOR LEFT		AMP CURSOR LEFT	R
CEN <cr></cr>	AMP CURSOR ENTER		AMP CURSOR ENTER	R
CRT <cr></cr>	AMP RETURN		AMP RETURN	R
APA <cr></cr>	AUDIO PARAMETER		AUDIO PARAMETER	R
VPA <cr></cr>	VIDEO PARAMETER		VIDEO PARAMETER	R
KOF <cr></cr>	KEY OFF (for USB, NETWORK)		KEY OFF	R

About the "KOF<CR>" command for USB/Network: After each command for USB and Network send the KOF command. For instance - the Cursor Up command (CUP<CR>) must be followed by the Key Off command (KOF<CR>) or the Menu will continue to scroll.

XM ra

Command	Command Name	Argument	Operation	Answer
00XM	STATION 10	-	to see OSD display	XM*** <cr+lf></cr+lf>
1XM	1	-	to see OSD display	XM*** <cr+lf></cr+lf>
2XM	2	-	to see OSD display	XM*** <cr+lf></cr+lf>
3XM	3	-	to see OSD display	XM*** <cr+lf></cr+lf>
04XM	4	-	to see OSD display	XM*** <cr+lf></cr+lf>
5XM	5	-	to see OSD display	XM*** <cr+lf></cr+lf>
06XM	6	-	to see OSD display	XM*** <cr+lf></cr+lf>
7XM	7	-	to see OSD display	XM*** <cr+lf></cr+lf>
MX80	8	-	to see OSD display	XM*** <cr+lf></cr+lf>
9XM	9	-	to see OSD display	XM*** <cr+lf></cr+lf>
I0XM	CH + / Cursol DOWNĮ	-	to see OSD display	XM*** <cr+lf></cr+lf>
11XM	CH - / Cursol UP↑	-	to see OSD display	XM*** <cr+lf></cr+lf>
I2XM	PRESET ST + (→)	-	to see OSD display	XM*** <cr+lf></cr+lf>
I3XM	PRESET ST - (←)	-	to see OSD display	XM*** <cr+lf></cr+lf>
I4XM	DISPLAY	-	to see OSD display	XM*** <cr+lf></cr+lf>
I5XM	PRESET	-	to see OSD display	XM*** <cr+lf></cr+lf>
I6XM	CLASS	-	to see OSD display	XM*** <cr+lf></cr+lf>
I7XM	DIRECT ACCESS(CH)	-	to see OSD display	XM*** <cr+lf></cr+lf>
I8XM	MEMORY (EDIT)	=	to see OSD display	XM*** <cr+lf></cr+lf>
I9XM	MENU	=	to see OSD display	XM*** <cr+lf></cr+lf>
21XM	ENTER	=	to see OSD display	XM*** <cr+lf></cr+lf>
22XM	RETURN	=	to see OSD display	XM*** <cr+lf></cr+lf>
23XM	CATEGORY	-	to see OSD display	XM*** <cr+lf></cr+lf>

(when change channel)

Command	Command Name	Argument	Operation	Answer
1200	STATION 10	-	to see OSD display	SI*** <cr+lf></cr+lf>
1SI	1	-	to see OSD display	SI*** <cr+lf></cr+lf>
)2SI	2	-	to see OSD display	SI*** <cr+lf></cr+lf>
)3SI	3	-	to see OSD display	SI*** <cr+lf></cr+lf>
I4SI	4	-	to see OSD display	SI*** <cr+lf></cr+lf>
)5SI	5	-	to see OSD display	SI*** <cr+lf></cr+lf>
16SI	6	-	to see OSD display	SI*** <cr+lf></cr+lf>
7SI	7	-	to see OSD display	SI*** <cr+lf></cr+lf>
)8SI	8	-	to see OSD display	SI*** <cr+lf></cr+lf>
)9SI	9	-	to see OSD display	SI*** <cr+lf></cr+lf>
I0SI	CH + / Cursol DOWNĮ	-	to see OSD display	SI*** <cr+lf></cr+lf>
1SI	CH - / Cursol UP↑	-	to see OSD display	SI*** <cr+lf></cr+lf>
I2SI	PRESET ST + (→)	-	to see OSD display	SI*** <cr+lf></cr+lf>
I3SI	PRESET ST - (←)	-	to see OSD display	SI*** <cr+lf></cr+lf>
I4SI	DISPLAY	-	to see OSD display	SI*** <cr+lf></cr+lf>
I5SI	PRESET	-	to see OSD display	SI*** <cr+lf></cr+lf>
I6SI	CLASS	-	to see OSD display	SI*** <cr+lf></cr+lf>
I7SI	DIRECT ACCESS(CH)	-	to see OSD display	SI*** <cr+lf></cr+lf>
I8SI	MEMORY (EDIT)	=	to see OSD display	SI*** <cr+lf></cr+lf>
9SI	MENU	-	to see OSD display	SI*** <cr+lf></cr+lf>
21SI	ENTER	=	to see OSD display	SI*** <cr+lf></cr+lf>
2SI	RETURN	=	to see OSD display	SI*** <cr+lf></cr+lf>
23SI	CATEGORY	-	to see OSD display	SI*** <cr+lf></cr+lf>

USB Operation

- | [to see OSD display | SI **CK+LF> | (Tween change channel) All commands and requests must be followed by a Carriage Return <CR>

Operation		Don'	Don't forget to use the Key Off command (KOF <cr>).</cr>		
Command	Command Name	Argument	Operation	Answer	
10US	PLAY	=	to see OSD display	R	
11US	PAUSE	=	to see OSD display	R	
12US	PREVIOUS (< <)	=	to see OSD display	R	
13US	NEXT (> >)	=	to see OSD display	R	
14US	REV (< <)	=	to see OSD display	R	
15US	FWD (> >)	=	to see OSD display	R	
16US	REPEAT	=	to see OSD display	R	
17US	RAMDOM	=	to see OSD display	R	
18US	DISPLAY	=	to see OSD display	R	
19US	UP	=	to see OSD display	R	
20US	DOWN	=	to see OSD display	R	
21US	RIGHT	=	to see OSD display	R	
22US	LEFT	=	to see OSD display	R	
23US	ENTER	=	to see OSD display	R	
24US	RETURN	=	to see OSD display	R	
25US	TOP MENU	-	to see OSD display	R	

Error message

Error Message	Error Name	Meaning
E04 <cr+lf></cr+lf>	COMMAND ERROR	Detect Inappropriate Command line
E06 <cr+lf></cr+lf>	ARGUMENT ERROR	Inappropriate Factor

Explanation of argument

*1	VOLUME LEVE	L[2byte]
	93	+12dB
	81	0dB
	01	-80dB
	00	(same as mute)

Example1-1 Command ?V<CR> Answer VOL93<CR+LF>

Request Volume Level. Volume is set to +12dB.

*2 **ON/OFF** [1byte] 0 ON 1 OFF

Example2
Command ?M<CR>
Answer MUT0<CR+LF>

Request Mute Status. Mute On.

	IODE NO.[2byte]	
01	CD	
02	TUNER CDR	
04	DVD	
05	TV	
10 15	VIDEO or VIDEO1 DVR or DVR1	
16	DVR2	
18	XM	
19 20	HDMI1	
25	HDMI2 BDP	
27	SIRIUS	
30	USB (Atype)	
31	HDMI (cyclic)	
	and 04FN <cr> ver FN04<cr+lf></cr+lf></cr>	Change to source 04(DVD).
	and in respect of "?F <cr>" ver FN04<cr+lf></cr+lf></cr>	Request Current Source. Source 04 is selected(DVD).
7 BASS status		
00	+6	
02 04	+4 +2	
06	0	
08	-2	
10	-4	
12	-6	
Ansv	and?BA <cr> ver BA02<cr+lf></cr+lf></cr>	Request BASS Level. BASS is set to +4dB.
8 TREBLE stat		
00	+6 +4	
04	+2	
06	0	
08	-2	
10 12	-4 -6	
9 PRESET num *01	1	* = B : class
*02	3	* = C : class
*04	4	
*05	5	
*06	6	
*07	8	
*08	9	
*10	0	
Example4	nd 2DD/CDS	Pequest PRESET number
Comma	and?PR <cr> ver PRA04<cr+lf> PRC10<cr+lf></cr+lf></cr+lf></cr>	
Comma Answ	ver PRA04 <cr+lf> PRC10<cr+lf></cr+lf></cr+lf>	PRESET number is set to class A
Comma	ver PRA04 <cr+lf> PRC10<cr+lf></cr+lf></cr+lf>	PRESET number is set to class A4
10 FREQ numb Answ A0**** F***** A is AM	ver PRA04 <cr+lf> PRC10<cr+lf></cr+lf></cr+lf>	PRESET number is set to class A4
Comma Answ	ver PRA04 <cr+lf> PRC10<cr+lf> per [7byte]</cr+lf></cr+lf>	PRESET number is set to class A4
Comma Answ 10 FREQ numb A0**** F**** A is AM F is FM * is ASC □ cod Example5	ver PRA04 <cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9</cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC □ cor Example5 Comma	wer PRA04-CR+LF> PRC10-CR+LF> ber [7byte] de 0 - 9 and ?FR <cr></cr>	PRESET number is set to class A: PRESET number is set to class Ct
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC □ cor Example5 Comma	ver PRA04 <cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9</cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class C Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC □ cor Example5 Comma Answ	wer PRA04-CR+LF> PRC10-CR+LF> prc10-CR+LF> oer [7byte] de 0 - 9 and ?FR-CR> wer FRA0890-CR+LF> FRF08010-CR+LF>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F***** A is AM F is FM * is ASC oo Example5 Comma Answ	wer PRA04 <cr+lf> PRC10<cr+lf> prc [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> cessing [1byte]</cr+lf></cr+lf></cr></cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co Request FREQ number FREQ number is set to AM 890 kH
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC □ cor Example5 Comma Answ	wer PRA04-CR+LF> PRC10-CR+LF> prc10-CR+LF> oer [7byte] de 0 - 9 and ?FR-CR> wer FRA0890-CR+LF> FRF08010-CR+LF>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC cod Example5 Comma Answ	wer PRA04 <cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> CESSING [1byte] OFF</cr+lf></cr+lf></cr></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F***** A is AM F is FM * is ASC cor Example5 Comma Answ 14 SBch PROC 0 0 1 1 2	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> ber [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> cessing [1byte] OFF ON AUTO SITION[1byte]</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC col Example5 Comma Answ 14 SBch PROC 0 1 2 15 MCACC PO 0 0	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> FRF08010<cr+lf> in the second of the secon</cr+lf></cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC □ cor Example5 Comma Answ 14 SBch PROC 0 1 2 15 MCACC PO 1 1	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> SESSING [1byte] OFF ON JAUTO SITION[1byte] MCACC OFF MEMORY 1</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class C Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F***** A is AM * is ASC coo Example5 Comma Answ 14 SBch PROC 0 1 2 15 MCACC PO 1 2	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> SESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC cod Example5 Comma Answ 14 SBch PROC 0 1 1 2 15 MCACC PO 0 1 1 2 3	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA0890<cr+lf> FRF08010<cr+lf> SESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2 MEMORY 3</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class A PRESET number is set to class Ct Request FREQ number FREQ number is set to AM 890 kt
Comma Answ 10 FREQ numb A0**** F***** F***** A is AM F is FM * is ASC cor Example5 Comma Answ 14 SBch PROC 0 1 1 2 15 MCACC PO 0 1 1 2 3 4	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FR08010<cr+lf> DOFF ON AUTO SITION[1byte] MEMORY 1 MEMORY 2 MEMORY 3 MEMORY 4 MEMORY 4</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co Request FREQ number FREQ number is set to AM 890 kH
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC cod Example5 Comma Answ 14 SBch PROC 0 1 1 2 15 MCACC PO 0 1 1 2 3	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA0890<cr+lf> FRF08010<cr+lf> SESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2 MEMORY 3</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co Request FREQ number FREQ number is set to AM 890 kH
Comma Answ 10 FREQ numb A0**** F***** A is AM F is FM * is ASC col Example5 Comma Answ 14 SBch PROC 0 1 2 15 MCACC PO 1 2 3 4 5 6	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> ESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2 MEMORY 3 MEMORY 4 MEMORY 5 MEMORY 5 MEMORY 6</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co Request FREQ number FREQ number is set to AM 890 kH
Comma Answ 10 FREQ numb A0**** F**** A is AM * is ASC cod Example5 Comma Answ 14 SBch PROC 0 1 1 2 15 MCACC PO 0 1 2 3 4 5 6	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA0890<cr+lf> FRF08010<cr+lf> ESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2 MEMORY 3 MEMORY 3 MEMORY 4 MEMORY 5 MEMORY 6 MICON[1byte] MEMORY 6 MICON[1byte] MEMORY 6 MICON[1byte] MEMORY 1 MEMORY 3 MEMORY 4 MEMORY 5 MEMORY 6 MICON[1byte]</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class Ad PRESET number is set to class C0
Comma Answ 10 FREQ numb A0**** F***** A is AM F is FM * is ASC col Example5 Comma Answ 14 SBch PROC 0 1 2 15 MCACC PO 1 2 3 4 5 6	wer PRA04 <cr+lf> PRC10<cr+lf> PRC10<cr+lf> oer [7byte] de 0 - 9 and ?FR<cr> wer FRA00890<cr+lf> FRF08010<cr+lf> ESSING [1byte] OFF ON AUTO SITION[1byte] MCACC OFF MEMORY 1 MEMORY 2 MEMORY 3 MEMORY 4 MEMORY 5 MEMORY 5 MEMORY 6</cr+lf></cr+lf></cr></cr+lf></cr+lf></cr+lf>	PRESET number is set to class Ad- PRESET number is set to class Co Request FREQ number FREQ number is set to AM 890 kH

*4 LISTENING MODE SETLISTENING MODE SETTING REQUEST[4byte]
When you set the "Listening Mode" with the product front panel keys and knobs, you are operating the "LISTENING MODE SELECTOR" knob or the "LISTENING CH SELECT" button. Depending on the source, there are some modes which are not available.

Automatic detection for 2ch, 5.1 ch, and 6.1ch is not always available.

With the "SR" command, you can select whichever mode you wish.

Also, you can confirm your selection with the "SR" command by "?S" command.

*) When the LISTENING MODE is changed, the set will dispatch an ANSWER command to let the external controller know the current status automatically; even without receiving a LISTENING MODE SETTING REQUEST from the controller. (Automatic Feedback [1-3byte]:data for mode setting.

Below are the command combinations for the LISTENING MODE command.

Editurate un Schriffen Answer SR0001

Answer SR0001

CR+LF>

Answer LM130<

CR+LF>

Command 78

Answer SR0031

CR+LF>

All command:

set STEREO mode. now become STEREO mode. now 96kHz STEREO play. now LISTENNING mode? now ACTION mode.

Allswe	All commands and requests must be followed by a Car	now ACTION mo	ue.
0XXXSR	All commands and requests must be followed by a Car Set Listening Mode	Group	Comment
001	STEREO (cyclic)	STEREO	Continent
003	STEREU (CYCIIC)	STEREO	
	FRONT STAGE SURROUND ADVANCE FOCUS		
004	FRONT STAGE SURROUND ADVANCE WIDE	STEREO	
005	AUTO SURROUND/STREAM DIRECT (same as key)	AUTO SURR	
006	AUTO SURROUND	AUTO SURR	
007	NORMAL DIRECT	AUTO SURR	
800	PURE DIRECT	AUTO SURR	
009	STEREO (direct command)	STEREO	
010	STANDARD SELECTION (same as key)	STANDARD	
012	PRO LOGIC	STANDARD	for 2ch Source
013	PRO LOGIC MOVIE	STANDARD	
	PRO LOGICE MUCIE		for 2ch Source
014	PRO LOGIC□ MUSIC PRO LOGIC□ GAME	STANDARD	for 2ch Source
015		STANDARD	for 2ch Source
016	Neo:6 CINEMA	STANDARD	for 2ch Source
017	Neo:6 MUSIC	STANDARD	for 2ch Source
018	PRO LOGIC□x MOVIE	STANDARD	for 2ch Source
019	PRO LOGIC□x MUSIC	STANDARD	for 2ch Source
020	PRO LOGIC□x GAME	STANDARD	for 2ch Source
021	Deponding on Source (for Multi-ch)	STANDARD	for Multi-ch Source
022	(Multi-Channel Source) + EX	STANDARD	for Multi-ch Source
	(Multi-Channel Course) + DDO + OCICTy MOVIE		
023	(Multi-Channel Source) + PRO LOGIQIX MOVIE	STANDARD	for Multi-ch Source
024	(Multi-Channel Source) + PRO LOGIQIX MUSIC	STANDARD	for Multi-ch Source
025	DTS + Neo:6	STANDARD	for Multi-ch Source
026	DTS-ES matrix6.1	STANDARD	for Multi-ch Source
027	DTS- ES discrete6.1	STANDARD	for Multi-ch Source
028	XM HD SURROUND	STANDARD	for 2ch Source
029	NEURAL THX	STANDARD	for Multi-ch Source
030	DTS- ES 8ch discrete	STANDARD	for Multi-ch Source
050	THX SELECTION (same as key)	HOME THX	
051	PRO LOGIC + THX CINEMA	HOME THX	for 2ch Source
052	PRO LOGICII MOVIE + THX CINEMA	HOME THX	for 2ch Source
053	Neo:6 CINEMA + THX CINEMA	HOME THX	for 2ch Source
054	PRO LOGICIIX MOVIE + THX CINEMA	HOME THX	for 2ch Source
		HOME THX	
055	THX GAMES MODE (THX SELECT2 GAMES) THX CINEMA		for 2ch Source for Multi-ch Source
056		HOME THX	
057	THX SURROUND EX	HOME THX	for Multi-ch Source
058	PRO LOGICIIX MOVIE + THX CINEMA	HOME THX	for Multi-ch Source
059	DTS + Neo:6 + THX CINEMA	HOME THX	for Multi-ch Source
060	DTS-ES MATRIX + THX CINEMA	HOME THX	for Multi-ch Source
061	DTS-ES DISCRETE6.1 + THX CINEMA	HOME THX	for Multi-ch Source
062	THX SELECT2 CINEMA	HOME THX	for Multi-ch Source
063	THX SELECT2 MUSIC	HOME THX	for Multi-ch Source
064	THX SELECT2 MOSIC THX SELECT2 GAMES	HOME THX	for Multi-ch Source
067	DTS-ES 8ch DISCRETE + THX CINEMA	HOME THX	for Multi-ch Source
068	THX CINEMA	HOME THX	for 2ch Source
069	THX MUSIC	HOME THX	for 2ch Source
070	THX GAMES	HOME THX	for 2ch Source
071	PL2 MUSIC + THX MUSIC	HOME THX	for 2ch Source
072	PL2x MUSIC + THX MUSIC	HOME THX	for 2ch Source
073	Neo:6 MUSIC + THX MUSIC	HOME THX	for 2ch Source
074	PL2 GAME + THX GAMES	HOME THX	for 2ch Source
075	PL2x GAME + THX GAMES	HOME THX	
			for 2ch Source
080	THX MUSIC	HOME THX	for Multi-ch Source
081	THX GAMES	HOME THX	for Multi-ch Source
082	PLIIX MUSIC + THX MUSIC	HOME THX	for Multi-ch Source
083	EX + THX GAMES	HOME THX	for Multi-ch Source
084	Neo:6 + THX MUSIC	HOME THX	for Multi-ch Source
085	Neo:6 + THX GAMES	HOME THX	for Multi-ch Source
086	ES MATRIX + THX MUSIC	HOME THX	for Multi-ch Source
087	ES MATRIX + THX GAMES	HOME THX	for Multi-ch Source
088	ES DISCRETE + THX MUSIC	HOME THX	for Multi-ch Source
089	ES DISCRETE + THX GAMES	HOME THX	for Multi-ch Source
090	ES 8CH DISCRETE + THX MUSIC	HOME THX	for Multi-ch Source
091	ES 8CH DISCRETE + THX GAMES	HOME THX	for Multi-ch Source
100	ADVANCED SURROUND SELECTION (same as key)	ADV.SURR	
101	ACTION	ADV.SURR	
102	SCI-FI	ADV.SURR	
103	DRAMA	ADV.SURR	
104	ENTERTAINMENT SHOW (MUSICAL)	ADV.SURR	
105	MONO FILM	ADV.SURR	
	EXPANDED THEATER (7-D THEATER)		+
106		ADV.SURR	
107	CLASSICAL	ADV.SURR	
109	UNPLUGGED (JAZZ)	ADV.SURR	
110	ROCK/POP (ROCK)	ADV.SURR	
	EXTENDED STEREO (7CH-STEREO)	ADV.SURR	
112	PHONES SURROUND	ADV.SURR	
113	TV SURROUND		
113 116	TV SURROUND	ADV.SURR	
113 116 117	TV SURROUND SPORTS	ADV.SURR ADV.SURR	
113 116	TV SURROUND	ADV.SURR	

LM***
*5 LISTENING (DECODE) MODE REQUEST[3byte]
Below is the list Indicating the combination of the LISTENING MODE selected by "SR" command and the LISTENING MODE determined by the input source signal.

When the LISTENING MODE is set and the format for the source signal is confirmed, the receiver will send an ANSWER COMMAND to the controller to let it know the LISTENING MODE status. It replies automatically and does not need to receive a LISTENING MODE REQUEST.

(Automatic Feedback)
LISTENING MODE shows the current signal format the receiver is detecting or the surround mode which has been added to the original signal.

LMXXX	Listenning Mode Name	Group	Comment
000	PRO LOGICII MOVIE PRO LOGIC□ MUSIC	STANDARD STANDARD	
002	PRO LOGIC	STANDARD	
003	NEO6 CINEMA	STANDARD	
004 005	NEO6 MUSIC PRO LOGIC□ GAME	STANDARD STANDARD	
003	96kHz PRO LOGIC	STANDARD	
009	96kHz PRO LOGICII MOVIE	STANDARD	
010	96kHz PRO LOGICII MUSIC	STANDARD	
011 015	96kHz PRO LOGICII GAME PCM 96KHz	STANDARD STANDARD	
016	DOLBY DIGITAL	STANDARD	
017	DOLBY DIGITAL EX	STANDARD	
019 022	DTS DTS-ES DISC 6.1	STANDARD STANDARD	
023	DTS-ES MTRX 6.1	STANDARD	
030	DTS 96/24	STANDARD	
031 032	PCM ACTION	STANDARD ADV.SURR	
033	SCIFI	ADV.SURR	
034	DRAMA	ADV.SURR	
035 036	ENTERTAINMENT SHOW (MUSICAL) MONOFILM	ADV.SURR ADV.SURR	
043	EXPANDED THEATER (7-D THEATER)	ADV.SURR	
050	PRO LOGIC□x MOVIE	STANDARD	
051 052	PRO LOGIC□x MUSIC NEO6 96K CINEMA	STANDARD STANDARD	
053	NEO6 96K MUSIC	STANDARD	
054	NEO6 88K CINEMA	STANDARD	
055 056	NEO6 88K MUSIC PRO LOGIC□x GAME	STANDARD STANDARD	
057	96kHz PRO LOGIQIX MOVIE	STANDARD	
058	96kHz PRO LOGIQIX MUSIC	STANDARD	
059	96kHz PRO LOGICIIX GAME	STANDARD	
080 081	THX CINEMA THX SURROUND EX	THX THX	
082	THX ULTRA2 CINEMA	THX	
083	THX SELECT2 MUSIC	THX	
085 087	DTS + Neo6 + THX CINEMA PRO LOGICIIX MOVIE + THX CINEMA	THX THX	
090	THX MUSIC	THX	
091	THX GAMES	THX	
096 098	CLASSICAL UNPLUGGED (JAZZ)	ADV.SURR ADV.SURR	
099	ROCK/POP (ROCK)	ADV.SURR	
107	EXTENDED STEREO (7CH-STEREO)	ADV.SURR	
122	NEURAL THX	etc.	
123 124	XM HD SURROUND SACD DIRECT	etc. etc.	
125	PCM DIRECT	etc.	
126	ANALOG DIRECT	etc.	
128 130	STEREO 96KHz STEREO	STEREO STEREO	
134	192kHz STEREO	STEREO	
135	FRONT STAGE SURROUND ADVANCE FOCUS	STEREO	
136 137	FRONT STAGE SURROUND ADVANCE WIDE AUTO LEVEL CONTROL	STEREO STEREO	
140	PCM88.2kHz + PRO LOGIC	STANDARD	
141	PCM88.2kHz + PRO LOGIC MOVIE	STANDARD	
142 143	PCM88.2kHz + PRO LOGIC∃ MUSIC PCM88.2kHz + PRO LOGIC∃ GAME	STANDARD STANDARD	
144	PCM88.2kHz + PRO LOGICIIx MOVIE (for 2ch)	STANDARD	
145	PCM88.2kHz + PRO LOGICIIX MUSIC (for 2ch)	STANDARD	
146 154	PCM88.2kHz + PRO LOGIC□x GAME DOLBY DIGITAL + PRO LOGIC□x MOVIE	STANDARD STANDARD	
155	DOLBY DIGITAL + PRO LOGICIIX MUSIC	STANDARD	
156	DTS + PROLIGIC□x MOVIE	STANDARD	
157	DTS + PROLIGIC X MUSIC	STANDARD	
162 163	PCM88.2kHz + PRO LOGICIX MOVIE (for multichannel) PCM88.2kHz + PRO LOGICIX MUSIC (for multichannel)	STANDARD STANDARD	
164	PCM96kHz + PRO LOGICIIX MOVIE (for multichannel)	STANDARD	
165	PCM96kHz + PRO LOGIQIx MUSIC (for multichannel)	STANDARD	
166 167	DTS Express DTS-HD HIGH RESOLUTION	STANDARD STANDARD	
168	DTS-HD HIGH RESOLUTION DTS-HD MASTER AUDIO	STANDARD	
169	DOLBY DIGITAL PLUS	STANDARD	
170	DOLBY DIGITAL PLUS EX DOLBY DIGITAL PLUS +PRO LOGICIIX MOVIE	STANDARD	
171 172	DOLBY DIGITAL PLUS +PRO LOGICIIX MOVIE DOLBY DIGITAL PLUS +PRO LOGICIIX MUSIC	STANDARD STANDARD	
173	DOLBY DIGITAL PLUS +PRO LOGICIIX MOVIE +THX CINEMA	THX	
174	DOLBY trueHD	STANDARD	
175 176	DOLBY TrueHD EX DOLBY TrueHD +PRO LOGICIIX MOVIE	STANDARD STANDARD	
177	DOLBY TrueHD +PRO LOGICIX MOVIE DOLBY TrueHD +PRO LOGICIX MUSIC	STANDARD	
178	DOLBY TrueHD +PRO LOGICIIX MOVIE +THX CINEMA	THX	
179	DTS-(HD)ES 8ch Discrete	STANDARD	
181 182	TV SURROUND SPORTS	ADV.SURR ADV.SURR	
183	GAME	ADV.SURR	
185	PHONES SURROUND	ADV.SURR	
200	6CH IN 6CH IN + EX	STANDARD STANDARD	
202	7CH IN	STANDARD	
206	8CH IN	STANDARD	
208	6CH IN + PRO LOGICIIX MOVIE	STANDARD	
209 210	6CH IN + PRO LOGICIIX MUSIC 6CH IN + PRO LOGICIIX MOVIE +THX CINEMA	STANDARD THX	
210	MULTI-CH IN	STANDARD	
214	PRO LOGIC□x GAME + THX GAMES	THX	
215	THX ULTRA2 GAMES	THX	
216 219	PRO LOGIC□ GAME + THX GAMES HDMI THROUGH	THX etc.	
220	PRO LOGIC + THX CINEMA	THX	
221	PRO LOGICII MOVIE + THX CINEMA	THX	
222	Neo:6 CINEMA + THX CINEMA	THX	
225	PRO LOGIC□ MUSIC + THX MUSIC	THX	

227	Neo:6 MUSIC + THX MUSIC	THX	
230	DOLBY DIGITAL + PRO LOGICIIX MOVIE + THX CINEMA	THX	
231	DTS + PRO LOGICIIX MOVIE + THX CINEMA	THX	
232	DTS-ES MATRIX6.1 + THX CINEMA	THX	
233	DTS-ES DISCRETE6.1 + THX CINEMA	THX	
235	WMA 9 Pro + PRO LOGICIIX MOVIE + THX CINEMA	THX	
238	PCM + PRO LOGICIIX MOVIE + THX CINEMA	THX	
239	DTS-(HD)ES 8ch Discrete +THX CINEMA	THX	
240	DTS-(HD)ES Discrete +THX CINEMA	THX	
241	DTS-(HD)ES Matrix +THX CINEMA	THX	
242	PCM + PRO LOGIC□x MUSIC + THX MUSIC	THX	
243	PCM + DOLBY EX + THX GAMES	THX	
244	DOLBY DIGITAL + PRO LOGIC X MUSIC + THX MUSIC	THX	
245	DOLBY DIGITAL EX + THX GAMES	THX	
246	DTS + PRO LOGIC□x MUSIC + THX MUSIC	THX	
248	DTS-(HD)ES Matrix	STANDARD	
249	DTS-(HD)ES Discrete	STANDARD	
250	DVD-AUDIO + PRO LOGIC	STANDARD	
251	DVD-AUDIO + PRO LOGIC MOVIE	STANDARD	
252	DVD-AUDIO + PRO LOGIC MUSIC	STANDARD	
253	DVD-AUDIO + PRO LOGIC GAME	STANDARD	
254	DVD-AUDIO + PRO LOGIC SAME	STANDARD	
255	DVD-AUDIO + PRO LOGIC x MUSIC (for 2ch)	STANDARD	
256 257	DVD-AUDIO + PRO LOGIC∃x GAME DVD-AUDIO + PRO LOGIC∃x MOVIE (for multichannel)	STANDARD STANDARD	
258	DVD-AUDIO + PRO LOGIC x MUSIC (for multichannel)	STANDARD	
260 270	DVD-AUDIO 88.2k + PRO LOGIC DVD-AUDIO 96k + PRO LOGIC	STANDARD STANDARD	
280	SACD + PRO LOGIC	STANDARD	
281	SACD + PRO LOGIC□ MOVIE SACD + PRO LOGIC□ MUSIC	STANDARD STANDARD	
282			
283 284	SACD + PRO LOGIC□ GAME SACD + PRO LOGIC□x MOVIE (for 2ch)	STANDARD STANDARD	
285	SACD + PRO LOGIC□x MUSIC (for 2ch)	STANDARD	
286	SACD + PRO LOGIC□x GAME	STANDARD STANDARD	
287	SACD + PRO LOGIC × MOVIE (for multichannel)	STANDARD	
288	SACD + PRO LOGIC x MUSIC (for multichannel)		
300	PCM 88.2KHz	STANDARD	
302	PCM 176.4KHz	STANDARD	
303	PCM 192KHz	STANDARD	
304	PCM 88.2KHz STEREO	STEREO	
305	PCM 96KHz STEREO	STEREO	
306	PCM 176.4KHz STEREO	STEREO	
307	PCM 192KHz STEREO	STEREO	
322	DTS 96/24 STEREO	STEREO	
324	DTS + Neo:6	STANDARD	
330	PCM +EX	STANDARD	
331	PCM 88.2 +EX	STANDARD	
332	PCM 96 +EX	STANDARD	
333	PCM + PRO LOGICIIx MOVIE (for multichannel)	STANDARD	
334	PCM + PRO LOGICIIx MUSIC (for multichannel)	STANDARD	
340	SACD	STANDARD	
342	SACD STEREO	STEREO	
344	SACD +EX	STANDARD	
350	DVD-AUDIO	STANDARD	
351	DVD-AUDIO 88.2KHz	STANDARD	
352	DVD-AUDIO 96KHz	STANDARD	
356	DVD-AUDIO STEREO	STEREO	
358	DVD-AUDIO 88.2KHz STEREO	STEREO	
360	DVD-AUDIO 96KHz STEREO	STEREO	
362	DVD-AUDIO 176KHz STEREO	STEREO	
363	DVD-AUDIO 192KHz STEREO	STEREO	
366	DVD AUDIO +EX	STANDARD	
367	DVD-AUDIO 88.2KHz +EX	STANDARD	
368	DVD-AUDIO 96KHz +EX	STANDARD	
371	DTS 96/24 + Neo:6	STANDARD	
372	DTS 96/24 ES MATRIX	STANDARD	
373	DVD-AUDIO 176KHz	STANDARD	
374	DVD-AUDIO 192KHz	STANDARD	
380	WMA 9 PRO	STANDARD	
382	WMA 9 PRO + EX	STANDARD	
384	WMA 9 Pro + PRO LOGIC□x MOVIE	STANDARD	
385	WMA 9 Pro + PRO LOGIC□x MUSIC	STANDARD	
200	DTS + Neo:6 + THX MUSIC	THX	
300	DTS + Neo:6 + THX MMOSIC DTS + Neo:6 + THX GAMES	THX	
390 391			
391		THX	
391 392	DTS-ES MATRIX6.1 + THX MUSIC	THX THX	
391 392 393	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES	THX	
391 392 393 394	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX MUSIC	THX THX	
391 392 393 394 395	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX MUSIC DTS-ES DISCRETE6.1 + THX GAMES	THX THX THX	
391 392 393 394 395 396	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX MUSIC DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete + THX MUSIC	THX THX THX THX THX	
391 392 393 394 395 396 397	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete + THX MUSIC DTS-(HD)ES 8ch Discrete + THX GAMES	THX THX THX THX THX THX THX	
391 392 393 394 395 396 397 398	DTS-ES MATRIXA.1 + THX MUSIC DTS-ES MATRIXA.1 + THX GAMES DTS-ES DISCRETE.6.1 + THX MUSIC DTS-ES DISCRETE.6.1 + THX GAMES DTS-(HD)ES 8ch Discrete +THX MUSIC DTS-(HD)ES 8ch Discrete +THX GAMES DTS-(HD)ES DISCRETE.1 + THX MUSIC DTS-(HD)ES DISCRETE.1 + THX MUSIC	THX THX THX THX THX THX THX THX	
391 392 393 394 395 396 397 398 399	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete +THX MUSIC DTS-(HD)ES 8ch Discrete +THX GAMES DTS-(HD)ES DIscrete +THX GAMES DTS-(HD)ES DIscrete +THX MUSIC DTS-(HD)ES DIscrete +THX MUSIC	THX	
391 392 393 394 395 396 397 398 399 400	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete + THX MUSIC DTS-(HD)ES 8ch Discrete + THX GAMES DTS-(HD)ES 0ch Discrete + THX GAMES DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Discrete + THX GAMES DTS-(HD)ES Matrix + THX MUSIC	THX	
391 392 393 394 395 396 397 398 399 400 401	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX MUSIC DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete + THX MUSIC DTS-(HD)ES 8ch Discrete + THX GAMES DTS-(HD)ES 8ch Discrete + THX GAMES DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Discrete + THX GAMES DTS-(HD)ES MIX + THX MUSIC DTS-(HD)ES MATIX + THX MUSIC	THX	
391 392 393 394 395 396 397 398 399 400 401 402	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete +THX MUSIC DTS-(HD)ES 8ch Discrete +THX MUSIC DTS-(HD)ES 8ch Discrete +THX GAMES DTS-(HD)ES Discrete +THX GAMES DTS-(HD)ES Discrete +THX GAMES DTS-(HD)ES Discrete +THX GAMES DTS-(HD)ES Matrix +THX MUSIC DTS-(HD)ES Matrix +THX GAMES MPEG-2 AAC + PRO LOGIC · x MUSIC + THX MUSIC	THX	
391 392 393 394 395 396 397 398 399 400 401 402 403	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete + THX MUSIC DTS-(HD)ES 8ch Discrete + THX GAMES DTS-(HD)ES 8ch Discrete + THX GAMES DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Discrete + THX MUSIC DTS-(HD)ES Matrix + THX MUSIC DTS-(HD)ES Matrix + THX GAMES MPEG-2 AAC + PRO LOGIC .x MUSIC + THX MUSIC MPEG-2 AAC + DOLBY EX + THX GAMES	THX	
391 392 393 394 395 396 397 398 399 400 401 402 403 404	DTS-ES MATRIX6.1 + THX MUSIC DTS-ES MATRIX6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-ES DISCRETE6.1 + THX GAMES DTS-(HD)ES 8ch Discrete +THX MUSIC DTS-(HD)ES 8ch Discrete +THX GAMES DTS-(HD)ES Discrete +THX GAMES DTS-(HD)ES Discrete +THX MUSIC DTS-(HD)ES Discrete +THX MUSIC DTS-(HD)ES DISCRETE +THX GAMES DTS-(HD)ES Matrix +THX MUSIC DTS-(HD)ES Matrix +THX GAMES MPEG-2 AAC + PRO LOGIC X MUSIC + THX MUSIC MPEG-2 AAC + DOLBY EX + THX GAMES WMA 9 Pro + PRO LOGIC X MUSIC + THX MUSIC	THX	
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