

# TASCAM SS-R1/SS-CDR1

CONTROL I/O connector  
RS-232C Protocol Specification

Ver.1.00  
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TEAC Corporation

1. Overview

The REMOTE connector equipped on the SS-R1/SS-CDR1 enables you to control the SS-R1/SS-CDR1 from a computer or other external device. In this document, the SS-R1/SS-CDR1 is referred to as the "controlled device," and the external device that controls it is referred to as the "external controller."

2. Specifications

Electrical specifications

Conforms to standard JIS X-5101 (equivalent to former JIS C-6361 and EIA RS-232C)  
 (Not compatible with the RS-422A used in professional VTR units)

Impedance at receiver When measured with an applied voltage of between  $\pm 3$  and 15V, the DC resistance is between 3K $\Omega$  and 7K $\Omega$ .  
 Total load capacitance is less than 2500pF

Open circuit voltage at transmitter Less than 25V

Open circuit voltage at receiver Less than 2V

Signal voltage When the open circuit voltage at the receiver is 0V, the signal voltage is between  $\pm 5$ V and  $\pm 15$ V for a load impedance of between 3K and 7K $\Omega$ .

Signal discrimination Logical "1" Less than -3V  
 Logical "0" More than +3V

Communication format

Circuit type 3-wire, half-duplex

Transmission type Digital binary serial

Data speed (baud rate) 4800/9600/19200/38400 bit/sec

Character length 7/8 bit

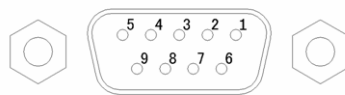
Parity bit Odd/Even/None

Stop bit 1/2 bit

(Data speed, character length, parity bit, and stop bit settings are made on the SS-R1/SS-CDR1.)

Connector pin-out

Connector D-sub 9-pin female (metric thread)

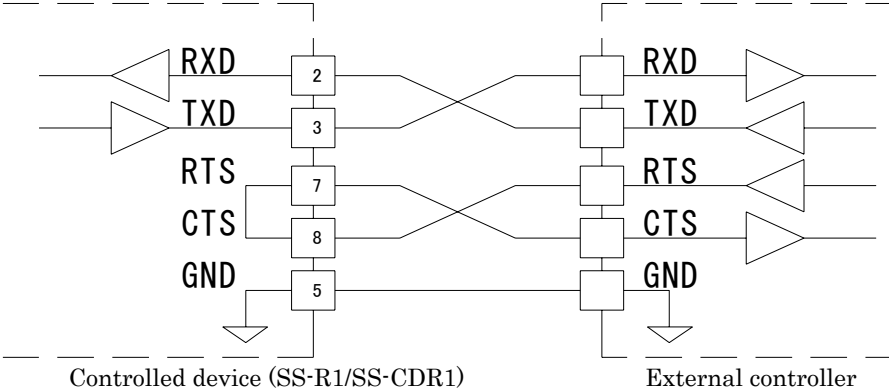


Terminal pin-out and input/output signals

Pin no.	In/Out	Signal name	Description
1	-	NC	Not connected
2	In	Rx Data	Data received at this pin *1
3	Out	Tx Data	Data transmitted from this pin
4	Out	(Reserved)	Reserved
5	-	GND	Ground
6	In	(Reserved)	Reserved
7	In	RTS	Request To Send (input "request to transmit") *2
8	Out	CTS	Clear To Send (output "ready to receive") *2
9	-	NC	Not connected

\*1: A voltage that satisfies the RS-232C specification must be applied to Rx Data.

\*2: RTS/CTS is loopback-connected within the controlled device. If using RTS/CTS control, consider the design of the external controller.



### 3. Command format

#### Command format overview

The command format is as follows.

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	...	Byte n
LF	ID	Command		Data 1	Data 2	Data 3	Data 4	...	CR

Commands begin with a "line feed (LF)," end with a "carriage return (CR)," and are based on the ASCII format.

The type following the LF is the machine ID. The machine ID is described later.

Commands are expressed by two ASCII bytes.

The byte string following the command expresses the data, and is between 0 bytes (for a command that has no data) and a maximum of 98 bytes. For details on the data, refer to the detailed explanation for each command. For commands that use 0-9 and A-F as data values, uppercase characters are used for A-F.

#### Example commands

Example 1: Transmitting a PLAY command to a controlled device of ID=0

When the controlled device is in Stop or Ready mode, this command will initiate playback on the controlled device.

The PLAY command is [12], and is transmitted as follows.

	ID	Command			
ASCII	LF	0	1	2	CR
HEX	0Ah	30h	31h	32h	0Dh

Example 2: Telling a controlled device of ID=0 to perform a direct search for track 123

The command "DIRECT TRACK SEARCH PRESET [23]" is transmitted to perform this action. The data bytes consist of ASCII in two-byte units.

For the "DIRECT TRACK SEARCH PRESET" command, the track number is specified as follows.

- Data 1 Tens digit of the specified track number
- Data 2 Ones digit of the specified track number
- Data 3 Thousands digit of the specified track number
- Data 4 Hundreds digit of the specified track number

Thus, the transmitted command will be as follows.

	ID	Command		Data: track 123					
ASCII	LF	0	2	3	2	3	0	1	CR
HEX	0Ah	30h	32h	33h	32h	33h	30h	31h	0Dh

#### Machine ID

The SS-R1/SS-CDR1 uses Machine ID=0 to receive commands and transmit returns.

If a command with an ID other than Machine ID=0 is received, that command is ignored.

If an unsupported command is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

## List of commands

A list of commands is given below.

Control/Preset/Sense Command		Return Command	
0F	INFORMATION REQUEST	8F	INFORMATION RETURN
10	STOP		
12	PLAY		
13	RECORD		
14	READY		
16	SHUTTLE		
17	FLASH LOAD	97	FLASH LOAD ACKNOWLEDGE
18	EJECT		
1A	TRACK SKIP		
1D	CALL		
20	AUTO CUE LEVEL PRESET	A0	AUTO CUE LEVEL RETURN
21	AUTO TRACK LEVEL PRESET	A1	AUTO TRACK LEVEL RETURN
23	DIRECT TRACK SEARCH PRESET		
25	PITCH DATA PRESET	A5	PITCH DATA RETURN
26	AUTO TRACK TIME PRESET	A6	AUTO TRACK TIME RETURN
27	CLOCK DATA PRESET	A7	CLOCK DATA RETURN
28	SYNC REC LEVEL PRESET	A8	SYNC REC LEVEL RETURN
2C	TIME SEARCH PRESET		
2D	KEY CONTROL DATA PRESET	AD	KEY CONTROL DATA RETURN
30	AUTO CUE SELECT	B0	AUTO CUE SELECT RETURN
31	AUTO TRACK SELECT	B1	AUTO TRACK RETURN
32	EOM TRACK TIME SELECT	B2	EOM TRACK TIME RETURN
33	EOM MEDIA TIME SELECT	B3	EOM MEDIA TIME RETURN
35	PITCH CONTROL SELECT	B5	PITCH CONTROL SELECT RETURN
36	AUTO READY SELECT	B6	AUTO READY SELECT RETURN
37	REPEAT SELECT	B7	REPEAT SELECT RETURN
38	SYNC REC SELECT	B8	SYNC REC SELECT RETURN
3A	INCR PLAY SELECT	BA	INCR PLAY SELECT RETURN
3D	KEY CONTROL SELECT	BD	KEY CONTROL SELECT RETURN
4C	REMOTE/LOCAL SELECT	CC	REMOTE/LOCAL SELECT RETURN
4E	PLAY MODE SENSE	CE	PLAY MODE RETURN
50	MECHA STATUS SENSE	D0	MECHA STATUS RETURN
55	TRACK No. STATUS SENSE	D5	TRACK No. STATUS RETURN
56	MEDIA STATUS SENSE	D6	MEDIA STATUS RETURN
57	CURRENT TRACK INFORMATION SENSE	D7	CURRENT TRACK INFORMATION RETURN
58	CURRENT TRACK TIME SENSE	D8	CURRENT TRACK TIME RETURN
59	NAME SENSE	D9	NAME RETURN
5D	TOTAL TRACK No./TOTAL TIME SENSE	DD	TOTAL TRACK No./TOTAL TIME RETURN
5E	PGM TOTAL TRACK No./TOTAL TIME SENSE	DE	PGM TOTAL TRACK No./TOTAL TIME RETURN
5F	KEYBOARD TYPE SENSE	DF	KEYBOARD TYPE RETURN

		F0	ERROR SENSE REQUEST
		F1	CAUTION SENSE REQUEST
		F2	ILLEGAL STATUS
		F4	POWER ON STATUS
		F6	CHANGE STATUS
78	ERROR SENSE	F8	ERROR SENSE RETURN
79	CAUTION SENSE	F9	CAUTION SENSE RETURN
7F	VENDER COMMAND	FF	VENDER COMMAND RETURN

Command sequence

In most cases the controlled device will not send an ACK in response to transport control or data preset commands sent from the external controller.

The controlled device will send back a return command in response to data sense commands that request a data value specified on the controlled device.

When the status of the controlled device changes, such as from Stop to Play mode, or when an error etc. occurs, the controlled device will send a command indicating this to the external controller.

Examples of the command sequence are given below.

You must leave an interval of at least 20 ms between commands.

Example 1: Controlling the transport of the controlled device

This example describes the Play operation.

When the controlled device receives the PLAY command and enters Play mode, it will transmit a CHANGED STATUS command.

ACK is not transmitted for the PLAY command.

Command		State of controlled device
External controller	Controlled device	
PLAY	->	Stopped
	<- CHANGED STATUS	Transmit when starting Play

Example 2: Presetting data

This example describes setting the AUTO CUE LEVEL.

When the controlled device receives the AUTO CUE LEVEL PRESET (Preset) command, it will set its AUTO CUE LEVEL.

ACK is not transmitted for this command.

Command		State of controlled device
External controller	Controlled device	
AUTO CUE LEVEL PRESET (Preset -54dB)	->	AUTO CUE LEVEL set to -54dB

Example 3: Obtaining specified data

This example describes obtaining the currently-set AUTO CUE LEVEL.

When the controlled device receives the AUTO CUE LEVEL PRESET (Sense) command, it will return the currently-set AUTO CUE LEVEL.

Command		State of controlled device
External controller	Controlled device	
AUTO CUE LEVEL PRESET (Sense)	->	
	<- AUTO CUE LEVEL RETURN	

Example 4: Checking the status of the controlled device, and performing the next operation

When the operating status of the controlled device changes, it will transmit CHANGED STATUS. By using CHANGED STATUS as a trigger for sending MECHA STATUS SENSE, the new operating status can be determined.

This example shows how to check the record-ready status of the controlled device and then initiate recording.

Command		State of controlled device
External controller	Controlled device	
RECORD (Record Ready)	->	Stopped

MECHA STATUS SENSE	<-	CHANGED STATUS	Transmitted when entering record-ready status
	->		
RECORD (Record)	<-	MECHA STATUS RETURN	Returns record-ready status
	->	CHANGES STATUS	Transmitted when entering record status

**Command details**

The commands, data, and machine IDs described here are characters (ASCII).

A command is two character bytes, a machine ID is one character byte, and each item of data is an individual character byte.

The SS-R1/SS-CDR1 can use the following track numbers and group numbers. However if a number not existing on the disc is specified, it will be considered an invalid command.

- Track number (MP3/WAV MEDIA)            maximum 999
- Track number (audio CD)                 maximum 99

**INFORMATION REQUEST**

Requests the controlled device to return information such as the software version.

- Command        0F
- Machine ID     0
- Data            none
- Return         INFORMATION RETURN [8F]

**STOP**

Puts the controlled device in STOP mode, and defeats input monitor mode.

- Command        10
- Machine ID     0
- Data            none
- Return         none

**PLAY**

Puts the controlled device in PLAY mode, or in RECORD mode if it is in record-ready mode.

- Command        12
- Machine ID     0
- Data            none
- Return         none

**RECORD**

Puts the controlled device in RECORD-READY mode. During recording, the command assigns a track. During the No Media status, it puts the controlled device in Input Monitor mode.

- Command        13
- Machine ID     0
- Data            2 bytes

Data 1	Data 2	Description	Remarks
0	1	Record Ready	Puts the device in record-ready mode.
0	2	Track Mark	Assigns a track during recording.
1	0	Input Monitor	Puts the device in Input Monitor mode during the No Media status.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

- Return         none



**READY**

Puts the controlled device in PLAY-READY mode or RECORD-READY mode.

Command 14

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	1	Ready On	Puts the device in PLAY-READY or RECORD-READY mode.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return none

**SHUTTLE**

Puts the controlled device in SHUTTLE mode.

SHUTTLE mode will be maintained until a command such as STOP, PLAY, or READY is received.

Command 16

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Shuttle Forward	Shuttles in the forward direction.
0	1	Shuttle Reverse	Shuttles in the backward direction.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return none

**FLASH LOAD**

Puts the controlled device in FLASH LOAD mode.

Command 17

Machine ID 0

Data none

Return FLASH LOAD ACKNOWLEDGE [97]

**EJECT**

Ejects CD media from the controlled device.

(If the SS-R1 receives this command, it will transmit ILLEGAL [F2].)

The command will be ignored if a device other than CD is selected on the controlled device.

Command 18

Machine ID 0

Data none

Return none

**SKIP**

Causes the controlled device to skip tracks.

After skipping, the device will maintain the mode in which it was when the operation began.

Command 1A

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Track Skip Next	Skips to the next track.
0	1	Track Skip Previous	If the current position is at the beginning of a track, skips to the beginning of the previous track. If the current position is not at the beginning of a track, skips to the beginning of the current track..

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return none

**CALL**

Causes the controlled device to locate to the call point and enter playback-ready mode.

Command 1D

Machine ID 0

Data none

Return none

**AUTO CUE LEVEL PRESET**

Sets the Auto Cue Level of the controlled device.

A return command is returned only if Sense [FF] is specified.

The Auto Cue Mode setting is made using the command "AUTO CUE SELECT [30]."

Command 20

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Preset -24dB	
0	1	Preset -30dB	
0	2	Preset -36dB	
0	3	Preset -42dB	
0	4	Preset -48dB	
0	5	Preset -54dB	
0	6	Preset -60dB	
0	7	Preset -66dB	
0	8	Preset -72dB	
F	F	Sense	Requests that the current preset level be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return AUTO CUE LEVEL RETURN [A0]

**AUTO TRACK LEVEL PRESET**

Sets the Auto Track Level of the controlled device.

A return command is returned only if Sense [FF] is specified.

The Auto Track Mode setting is made using the command "AUTO TRACK SELECT [31]."

Command 21

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Preset -24dB	
0	1	Preset -30dB	
0	2	Preset -36dB	
0	3	Preset -42dB	
0	4	Preset -48dB	
0	5	Preset -54dB	
0	6	Preset -60dB	
0	7	Preset -66dB	
0	8	Preset -72dB	
F	F	Sense	Requests that the current preset level be returned.

- If data other than the above is returned, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return AUTO TRACK LEVEL RETURN [A1]

**DIRECT TRACK SEARCH PRESET**

Searches for the specified track number.

When this command is received while in STOP mode or PLAY mode, the controlled device will enter PLAY mode after searching. If the controlled device had been in any other mode when searching began, it will remain in that mode after searching.

Command 23

Machine ID 0

Data 4 bytes

	Description	Remarks
Data 1	Tens digit of the track number	Track number Example) 2301: track 123
Data 2	Ones digit of the track number	
Data 3	Thousands digit of the track number	
Data 4	Hundreds digit of the track number	

- If the specified track number does not exist on the disc, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return none

**PITCH CONTROL DATA PRESET**

Specifies the playback pitch of the controlled device in % units.

The adjustable range is  $\pm 16.0\%$ .

This can be set independently of the step that is specified by the SS-R1/SS-CDR1's PITCH STEP? setting.

A return command is returned only if Sense [FF] is specified..

If Sense [FF] is specified, the data is two bytes.

The pitch control mode setting is made by the command "PITCH CONTROL SELECT [35]."

Command 25

Machine ID 0

Data 4 bytes or 2 bytes

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	0 1	N1	Preset %	Positive value Negative value N1: Tens digit, N2: Ones digit, N3: First decimal place Example) 2311:-12.3%
F	F	...		Sense	Requests that the currently preset pitch be returned.

- If data other than the above or data outside the specified operating range is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return PITCH DATA RETURN [A5]

**AUTO TRACK TIME PRESET**

Specifies the Auto Track Time setting of the controlled device.

The range that can be specified is 1 to 10 minutes.

A return command is returned only if Sense [FF] is specified.

The Auto Track Mode setting is made by the command "AUTO TRACK SELECT [31]."

Command 26

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
N1	N2	Minutes	N1: Tens digit of minutes, N2: Ones digit of minutes
F	F	Sense	Requests that the currently preset time be returned.

- If data outside the specified range is received, the controlled device will return ILLEGAL[F2].

Return AUTO TRACK TIME RETURN [A6]

**CLOCK DATA PRESET**

Sets the date and time of the controlled device.

Command 27

Machine ID 0

Data 10 bytes or 2 bytes

	Description	Remarks
Data 1	Tens digit of year	e.g., "0802231234" means February 23 <sup>rd</sup> of year 2008 at 34 minutes past twelve o'clock.
Data 2	Ones digit of year	
Data 3	Tens digit of month	If both Data 1 and Data 2 are "F," "Sense" is specified and the SS-R1/SS-CDR1 requests that the currently programmed Clock Data be returned. e.g., FF
Data 4	Ones digit of month	
Data 5	Tens digit of day	
Data 6	Ones digit of day	
Data 7	Tens digit of the hours	
Data 8	Ones digit of the hours	
Data 9	Tens digit of the minutes	
Data 10	Ones digit of the minutes	

- If a date or time outside the possible range is set, the SS-R1/SS-CDR1 will return ILLEGAL [F2].

Return CLOCK DATA PRESET RETURN [A7]

**SYNC REC LEVEL PRESET**

Sets the Sync Rec Level of the controlled device.

A return command is returned only if Sense [FF] is specified.

The SYNC REC MODE setting is made by the command "SYNC REC SELECT [38]."

Command 28

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Preset -24dB	
0	1	Preset -30dB	
0	2	Preset -36dB	
0	3	Preset -42dB	
0	4	Preset -48dB	
0	5	Preset -54dB	
0	6	Preset -60dB	
0	7	Preset -66dB	
0	8	Preset -72dB	
F	F	Sense	Requests that the currently preset level be returned.

- If data outside the above range is received, the SS-R1/SS-CDR1 will return ILLEGAL [F2].

Return SYNC REC LEVEL RETURN [A8]

**TIME SEARCH PRESET**

Searches for the specified track number and time.

If this command is received while in STOP mode or PLAY mode, the device will enter PLAY mode following the search. If the device was in any other mode, it will remain in that mode following the search.

Command 2C

Machine ID 0

Data 12 bytes

	Description	Remarks
Data 1	Tens digit of track number	
Data 2	Ones digit of track number	
Data 3	Thousands digit of track number	
Data 4	Hundreds digit of track number	
Data 5	Tens digit of minutes	
Data 6	Ones digit of minutes	
Data 7	Hundreds digit of minutes	
Data 8	Thousands digit of minutes	
Data 9	Tens digit of seconds	
Data 10	Ones digit of seconds	
Data 11	0	Set to 0
Data 12	0	Set to 0

- If a track number not existing on the disc is specified, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].
- If data outside the operating range is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return none

**KEY CONTROL DATA PRESET**

Specifies the playback key of controlled device.

A range of  $\pm 6$  semitones can be specified.

A return command is returned only if Sense [FF] is specified.

The KEY CONTROL MODE setting is made using the command "KEY CONTROL SELECT [3D]."

Command 2D

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0		Key Up	
1		Key Down	
	0 – 6	Key Change	
F	F	Sense	Requests that the preset content be returned.

- If data outside the operating range is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return KEY CONTROL DATA RETURN [AD]

**AUTO CUE SELECT**

Specifies the auto cue mode setting of the controlled device.

A return command is returned only if Sense [FF] is specified.

The AUTO CUE LEVEL setting is made by the command "AUTO CUE LEVEL PRESET [20]."

Command 30

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Cue Off	
0	1	Auto Cue On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return AUTO CUE SELECT RETURN [B0]

**AUTO TRACK SELECT**

Specifies the auto track mode of the controlled device.

A return command is returned only if Sense [FF] is specified.

Command 31

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Track Off	
0	1	Auto Track On (Level)	Executes auto track according to the specified AUTO TRACK LEVEL.
0	2	Auto Track On (Digital Direct)	Executes auto track according to the track data within the S/P DIF signal.
0	3	Auto Track On (Time)	Executes auto track according to the specified AUTO TRACK TIME.
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return AUTO TRACK RETURN [B1]

**EOM TRACK TIME PRESET**

Specifies the time (in seconds) at which the EOM (End Of Message) will give notice that the end of track is approaching.

The range is 1 to 99 seconds, or OFF.

A return command is returned only if data [FF] is specified.

Command 32

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	EOM Track Off	
N1	N2	Number of seconds	N1: Tens digit of seconds, N2: Ones digit of seconds
F	F	Sense	Requests that the preset content be returned.

- If data outside the range specified above is received, the controlled device will transmit ILLEGAL[F2].

Return EOM TRACK TIME RETURN [B2]

**EOM MEDIA TIME PRESET**

Specifies the time (in seconds) at which the EOM (End Of Message) will give notice that the end of media is approaching.

The range is 1 to 99 seconds, or OFF.

A return command is returned only if data [FF] is specified.

Command 33

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	EOM Media Off	
N1	N2	Number of seconds	N1: Tens digit of seconds, N2: Ones digit of seconds
F	F	Sense	Requests that the preset content be returned.

- If data outside the range specified above is received, the controlled device will transmit ILLEGAL[F2].

Return EOM MEDIA TIME RETURN [B3]

**PITCH CONTROL SELECT**

Specifies the Pitch Control mode of the controlled device.

A return command is returned only if Sens [FF] is specified.

The pitch control value is specified by the command "PITCH CONTROL DATA PRESET [25]."

Command 35

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Pitch Control Off	
0	1	Pitch Control On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return PITCH CONTROL SELECT RETURN [B5]

**AUTO READY SELECT**

Specifies the Auto Ready mode setting of the controlled device.

A return command is returned only if Sense [FF] is specified.

Command 36

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Ready Off	
0	1	Auto Ready On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return AUTO READY SELECT RETURN [B6]



**REPEAT SELECT**

Specifies the Repeat Mode setting of the controlled device.

A return command is returned only if Sense [FF] is specified.

Command 37

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Repeat Off	
0	1	Repeat On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return REPEAT SELECT RETURN [B7]

**SYNC REC SELECT**

Specifies the Sync Rec Mode setting of the controlled device.

A return command is returned only if Sense [FF] is specified.

The Sync Rec Level is specified by the command "SYNC REC LEVEL PRESET [28]."

Command 38

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Sync Rec Off	
0	1	Sync Rec On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return SYNC REC SELECT RETURN [B8]

**INCR PLAY SELECT**

Specifies the Incremental Play Mode of the controlled device.

A return command is returned only if Sense [FF] is specified.

Command 3A

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	INCR Play Off	
0	1	INCR Play On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return INCR PLAY SELECT RETURN [BA]

**KEY CONTROL SELECT**

Specifies the Key Control Mode of the controlled device.

A return command is returned only if Sense [FF] is specified.

The key control value is set by the command "KEY CONTROL DATA PRESET [2D]."

Command 3D

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Key Control Off	
0	1	Key Control On	
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return KEY CONTROL SELECT RETURN [BD]

**REMOTE/LOCAL SELECT**

Enables or disables key operations on the controlled device's own panel.

A return command is returned only if Sense [FF] is specified.

Command 4C

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Remote	Only remote operation via RS-232C and wired remote control will be enabled. Key operations on the device's own panel will be disabled.
0	1	Local	Remote operation and key operations on the device's own panel will be enabled.
F	F	Sense	Requests that the preset content be returned.

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return REMOTE/LOCAL SELECT RETURN [CC]

**PLAY MODE SENSE**

Requests that the status of the controlled device's Play mode be returned.

Command 4E

Machine ID 0

Data none

Return PLAY MODE RETURN [CE]

**MECHA STATUS SENSE**

Requests that the status of the controlled device's mechanism be returned.

Command 50

Machine ID 0

Data none

Return MECHA STATUS RETURN [D0]

**TRACK No. SENSE**

Requests that the current track number be returned.

Command 55

Machine ID 0

Data none

Return TRACK No. RETURN [D5]

**MEDIA STATUS SENSE**

Requests that the presence or absence of media and the type of media be returned.

Command 56  
 Machine ID 0  
 Data none  
 Return MEDIA STATUS RETURN [D6]

**CURRENT TRACK INFORMATION SENSE**

Requests that information for the current track be returned.

Command 57  
 Machine ID 0  
 Data none  
 Return CURRENT TRACK INFORMATION RETURN [D7]

**CURRENT TRACK TIME SENSE**

Requests that the time information for the current track be returned in the specified form.

Command 58  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Elapsed Time	Elapsed track time
0	1	Remain Time	Remaining track time
0	2	Total Elapsed Time	Elapsed disc time
0	3	Total Remain Time	Remaining disc time

- If data other than the above is received, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return CURRENT TRACK TIME RETURN [D8]

**NAME SENSE**

Requests that the name of the specified track be returned.

Command 59  
 Machine ID 0  
 Data 4 bytes

	Description	Remarks
Data 1	Tens digit of the specified number	0001 – 0999 Specify a track name
Data 2	Ones digit of the specified number	
Data 3	Thousands digit of the specified number	
Data 4	Hundreds digit of the specified number	
Data 5 – Data 124	Title	Single byte alphanumeric characters

- If a track number not existing on the media is specified, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].
- If non-ASCII characters are used for the name of the specified track number, the SS-R1/SS-CDR1 will transmit ILLEGAL [F2].

Return NAME RETURN [D9]

**TOTAL TRACK No./TOTAL TIME SENSE**

Requests that the total number of tracks on the disc and the total time be returned.

Command        5D  
Machine ID     0  
Data            none  
Return         TOTAL TRACK No./TOTAL TIME RETURN [DD]

**PGM TOTAL TRACK No./TOTAL TIME SENSE**

Requests that the total number of tracks for program playback and the total time be returned.

Command        5E  
Machine ID     0  
Data            none  
Return         PGM TOTAL TRACK No./TOTAL TIME RETURN [DE]

**KEYBOARD TYPE SENSE**

Requests the type of PS/2 keyboard connected to the controlled device.

Command        5F  
Machine ID     0  
Data            none  
Return         KEYBOARD TYPE RETURN [DF]

**ERROR SENSE**

Requests that error data be returned from the controlled device.

If the controlled device issues an "ERROR SENSE REQUEST [F0]," you should use this command to check the content of the error.

Command        78  
Machine ID     0  
Data            none  
Return         ERROR SENSE RETURN [F8]

**CAUTION SENSE**

Requests that caution data be returned from the controlled device.

If the controlled device issues a "CAUTION SENSE REQUEST [F1]," you should use this command to check the content of the error.

Command        79  
Machine ID     0  
Data            none  
Return         CAUTION SENSE RETURN [F9]

**VENDER COMMAND**

This command controls the functions unique to the SS-1/CDR-1.

The values of Data 1 and Data 2 are used to identify the corresponding function.

Command 7F

Machine ID 0

Data -- byte

Data 1	Data 2	Description	Remarks
0	1	DEVICE SELECT	

Return VENDER COMMAND RETURN [FF]

➤ **DEVICE SELECT**

Switches devices on the controlled device.

(If the SS-R1 receives this command, it will transmit ILLEGAL [F2].)

Data 4byte

Data3	Data4	Description	Remarks
0	0	CF	Switches to CF device.
0	1	CD	Switches to CD device.
F	F	Sense	Requests that the current setting be returned.

**INFORMATION RETURN**

This is the return command in response to the command "INFORMATION REQUEST [0F]."  
It returns the software version of the controlled device.

Command 8F  
Machine ID 0  
Data 4 bytes

Data 1	Tens digit of the software version	Example of Data 1 – Data 4 0100          Version 1.00
Data 2	Ones digit of the software version	
Data 3	First decimal place of the software version	
Data 4	Second decimal place of the software version	

Request INFORMATION REQUEST [0F]

**FLASH LOAD ACKNOWLEDGE**

This is the return command in response to the command "FLASH LOAD [17]."  
It is transmitted when the data reading is successfully completed.

Command 97  
Machine ID 0  
Data none  
Request/Preset FLASH LOAD [17]

**AUTO CUE LEVEL RETURN**

This is the return command in response to the command "AUTO CUE LEVEL PRESET [20]."  
It returns the currently specified auto cue level.

Command A0  
Machine ID 0  
Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	-24dB	
0	1	-30dB	
0	2	-36dB	
0	3	-42dB	
0	4	-48dB	
0	5	-54dB	
0	6	-60dB	
0	7	-66dB	
0	8	-72dB	

Request/Preset AUTO CUE LEVEL PRESET [20]

**AUTO TRACK LEVEL RETURN**

This is the return command in response to the command "AUTO TRACK LEVEL PRESET [21]."  
It returns the currently specified auto track level.

Command        A1  
Machine ID     0  
Data            2 bytes

Data 1	Data 2	Description	Remarks
0	0	-24dB	
0	1	-30dB	
0	2	-36dB	
0	3	-42dB	
0	4	-48dB	
0	5	-54dB	
0	6	-60dB	
0	7	-66dB	
0	8	-72dB	

Request/Preset   AUTO TRACK LEVEL PRESET [21]

**PITCH CONTROL DATA RETURN**

This is the return command in response to the command "PITCH CONTROL DATA PRESET [25]."  
It returns the currently specified pitch control value.

Command        A5  
Machine ID     0  
Data            4 bytes

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	0 1	N1	Preset %	Positive value Negative value N1: Tens digit, N2: Ones digit, N3: First decimal place digit Example) 2311:-12.3%

Request/Preset   PITCH CONTROL DATA PRESET [25]

**AUTO TRACK TIME RETURN**

This is the return command in response to the command "AUTO TRACK TIME PRESET [26]."  
It returns the currently specified auto track time.

Command        A6  
Machine ID     0  
Data            2 bytes

Data 1	Data 2	Description	Remarks
N1	N2	Minutes	N1:Tens digit of the minutes, N2: Ones digit of the minutes

Request/Preset   AUTO TRACK TIME PRESET [26]

**CLOCK DATA RETURN**

This is the return command in response to the command "CLOCK DATA PRESET [27]."

It returns the currently specified date and time value.

Command A7

Machine ID 0

Data 1 2 bytes

	Description	Remarks
Data 1	Tens digit of year	
Data 2	Ones digit of year	
Data 3	Tens digit of month	
Data 4	Ones digit of month	
Data 5	Tens digit of day	
Data 6	Ones digit of day	
Data 7	Tens digit of the hours	
Data 8	Ones digit of the hours	
Data 9	Tens digit of the minutes	
Data 10	Ones digit of the minutes	
Data 11	Tens digit of the seconds	
Data 12	Tens digit of the seconds	

Request/Preset CLOCK DATA PRESET [27]

**SYNC REC LEVEL RETURN**

This is the return command in response to the command "SYNC REC LEVEL PRESET [28]."

It returns the currently specified Sync Rec level.

Command A8

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Preset -24dB	
0	1	Preset -30dB	
0	2	Preset -36dB	
0	3	Preset -42dB	
0	4	Preset -48dB	
0	5	Preset -54dB	
0	6	Preset -60dB	
0	7	Preset -66dB	
0	8	Preset -72dB	

Request/Preset SYNC REC LEVEL PRESET [28]



**KEY CONTROL DATA RETURN**

This is the return command in response to the command "KEY CONTROL DATA PRESET [2D]."

It returns the currently specified key control value.

Command AD

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0		Key Up	
1		Key Down	
	0 – 6	Key Change	Semitone units

Request/Preset KEY CONTROL DATA PRESET [2D]

**AUTO CUE SELECT RETURN**

This is the return command in response to the command "AUTO CUE SELECT [30]."

It returns the Auto Cue on/off status.

Command B0

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Cue Off	
0	1	Auto Cue On	

Request/Preset AUTO CUE SELECT [30]

**AUTO TRACK SELECT RETURN**

This is the return command in response to the command "AUTO TRACK SELECT [31]."

It returns the Auto Track on/off status.

Command B1

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Track Off	
0	1	Auto Track On (Level)	Auto Track is executed according to the specified AUTO TRACK LEVEL.
0	2	Auto Track On (Digital Direct)	Auto Track is executed according to the track data within the S/P DIF signal.
0	3	Auto Track On (Time)	Auto Track is executed according to the specified AUTO TRACK TIME.

Request/Preset AUTO TRACK SELECT [31]

**EOM TRACK TIME RETURN**

This is the return command in response to the command "EOM TRACK TIME PRESET [32]."

It returns the time at which the EOM (End Of Message) function will give notice that the end of the track is approaching.

Command B2

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	EOM track Off	
N1	N2	Number of seconds	N1: Tens digit of seconds, N2: Ones digit of seconds

Request/Preset EOM TRACK TIME PRESET [32]

**EOM MEDIA TIME RETURN**

This is the return command in response to the command "EOM MEDIA TIME PRESET [33]."

It returns the time at which the EOM (End Of Message) function will give notice that the end of the media is approaching.

Command B3

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	EOM Media Off	
N1	N2	Number of seconds	N1: Tens digit of seconds, N2: Ones digit of seconds

Request/Preset EOM MEDIA TIME PRESET [33]

**PITCH CONTROL SELECT RETURN**

This is the return command for the command "PITCH CONTROL SELECT [35]."

It returns the Pitch Control on/off status.

Command B5

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Pitch Control Off	
0	1	Pitch Control On	

Request/Preset PITCH CONTROL SELECT [35]

**AUTO READY SELECT RETURN**

This is the return command for the command "AUTO READY SELECT [36]."

It returns the Auto Ready on/off status.

Command B6

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Auto Ready Off	
0	1	Auto Ready On	

Request/Preset AUTO READY SELECT [36]

**REPEAT SELECT RETURN**

This is the return command for the command "REPEAT SELECT [37]."

It returns the Repeat Mode on/off status.

Command B7

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Repeat Off	
0	1	Repeat On	

Request/Preset REPEAT SELECT [37]

**SYNC REC SELECT RETURN**

This is the return command for the command "SYNC REC SELECT [38]."

It returns the Sync Rec on/off status.

Command B8

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Sync Rec Off	
0	1	Sync Rec On	

Request/Preset SYNC REC SELECT [38]

**INCR PLAY SELECT RETURN**

This is the return command for the command "INCR PLAYSYNC SELECT [3A]."

It returns the Incremental Play on/off status.

Command BA

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	INCR Play Off	
0	1	INCR Play On	

Request/Preset INCR PLAY SELECT [3A]

**KEY CONTROL SELECT RETURN**

This is the return command for the command "KEY CONTROL SELECT [3D]."

It returns the Key Control on/off status.

Command BD

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Key Control Off	
0	1	Key Control On	

Request/Preset KEY CONTROL SELECT [3D]

**REMOTE/LOCAL SELECT RETURN**

This is the return command for the command "REMOTE/LOCAL SELECT [4C]."

It returns the enabled or disabled status for operation of the device's panel keys.

Command CC

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Remote	Only remote operations via RS-232C and the wired remote control unit are valid. Key operations on the device's own panel are disabled.
0	1	Local	Remote operations as well as operations of the device's own panel are valid.

Request/Preset REMOTE/LOCAL SELECT [4C]

**PLAY MODE RETURN**

This is the return command for the command "PLAY MODE SENSE [4E]."

It returns the current Play mode.

Command CE

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Continue	Play all tracks in the play area.
0	1	Single	Play a single track
0	4	Program (Data Empty)	Program Play mode (with no tracks programmed)
0	5	Program	Program Play mode
0	6	Random	Random Play mode

Request/Presets PLAY MODE SENSE [4E]

**MECHA STATUS RETURN**

This is the return command for the command "MECHA STATUS SENSE [50]."

It returns the current operating status of the mechanism.

Command D0

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	No Media	No media is inserted
0	1	Eject	Media is being ejected, or no media is recognized.
1	0	Stop	Stopped
1	1	Play	Playing
1	2	Ready On	Play-ready mode
8	0	Monitor	Input monitor status (no media is inserted)
8	1	Record	Recording
8	2	Record Ready	Record-ready mode
8	3	Information Writing	Writing various information

Request/Presets MECHA STATUS SENSE [50]

**TRACK No. RETURN**

This is the return command for the command "TRACK No. SENSE [55]."

It returns whether the current track number and EOM are shown.

If Group mode is on, the group number is returned.

Command D5

Machine ID 0

Data 6 bytes

	Description	Remarks
Data 1	EOM Status	00: EOM indication not shown
Data 2		01: EOM is displayed
Data 3	Tens digit	0000 Stopped, and track is not cued, etc. 0001 – 0999 Track number
Data 4	Ones digit	
Data 5	Thousands digit	
Data 6	Hundreds digit	

Request/Presets TRACK No. SENSE [55]

**MEDIA STATUS RETURN**

This is the return command for the command "MEDIA STATUS SENSE [56]."

It returns the presence/absence of media, and the type of media.

Command D6

Machine ID 0

Data 4 bytes

Data 1	Media Status	00:Media not present
Data 2		01:Media present
Data 3	Media Type	00:CD-DA 01:CD-R (Audio) 02:CD-RW (Audio)
Data 4		10:CD-Data (Data CD) 11:CD-R (Data) 12:CD-RW (Data)

Request/Presets MEDIA STATUS SENSE [56]

**CURRENT TRACK INFORMATION RETURN**

This is the return command for the command "CURRENT TRACK INFORMATION SENSE [57]."

If the Play mode is Program mode, this returns the program number. For any other Play mode, it returns the track number.

Command D7

Machine ID 0

Data 12 bytes

	Description	Remarks
Data 1	Tens digit of the track number	
Data 2	Ones digit of the track number	
Data 3	Thousands digit of the track number	
Data 4	Hundreds digit of the track number	
Data 5	Tens digit of the minutes	
Data 6	Ones digit of the minutes	
Data 7	Hundreds digit of the minutes	
Data 8	Thousands digit of the minutes	
Data 9	Tens digit of the seconds	
Data 10	Ones digit of the seconds	
Data 11	Tens digit of the frames	
Data 12	Ones digit of the frames	

Request/Presets CURRENT TRACK INFORMATION SENSE [57]

**CURRENT TRACK TIME RETURN**

This is the return command for the command "CURRENT TRACK TIME SENSE [58]."

It returns the current track time or the media time.

Command D8

Machine ID 0

Data 10 bytes

	Description	Remarks
Data 1	Time Mode	00:Track elapsed time 01:Track remaining time 02:Media elapsed time 03:Media remaining time
Data 2		
Data 3	Tens digit of the minutes	
Data 4	Ones digit of the minutes	
Data 5	Hundreds digit of the minutes	
Data 6	Thousands digit of the minutes	
Data 7	Tens digit of the seconds	
Data 8	Ones digit of the seconds	
Data 9	Tens digit of the frames	
Data 10	Ones digit of the frames	

Request/Preset CURRENT TRACK TIME SENSE [58]

**NAME RETURN**

This is the return command for the command "NAME SENSE [59]."

It returns the name of the track.

If no name has been written for the specified track, or if the written name uses non-ASCII characters, this returns the command "ILLEGAL SENSE REQUEST [F2]."

Command D9

Machine ID 0

Data none

Data 5 bytes~124 bytes

	Description	Remarks
Data 1	Tens digit of the specified number	0001 – 0999 Track name
Data 2	Ones digit of the specified number	
Data 3	Thousands digit of the specified number	
Data 4	Hundreds digit of the specified number	
Data 5 – Data 124	Title	

- The name is between 0 and 120 characters in length.

Request/Preset NAME SENSE [59]

**TOTAL TRACK No./TOTAL TIME RETURN**

This is the return command for the command "TOTAL TRACK No./TOTAL TIME SENSE [5D]."  
 It returns the total number of tracks and the total time of the selected play area.

Command DD

Machine ID 0

Data 12 bytes

	Description	Remarks
Data 1	Tens digit of total number of tracks	If Data 1 – Data 4 is 0000, the media is either blank, or no media is inserted.
Data 2	Ones digit of total number of tracks	
Data 3	Thousands digit of total number of tracks	
Data 4	Hundreds digit of total number of tracks	
Data 5	Tens digit of minutes	
Data 6	Ones digit of the minutes	
Data 7	Hundreds digit of the minutes	
Data 8	Thousands digit of the minutes	
Data 9	Tens digit of the seconds	
Data 10	Ones digit of the seconds	
Data 11	Tens digit of the frames	
Data 12	Ones digit of the frames	

Request/Preset TOTAL TRACK No./TOTAL TIME SENSE [5D]

**PGM TOTAL TRACK No./TOTAL TIME RETURN**

This is the return command for the command "PGM TOTAL TRACK No./TOTAL TIME SENSE [5E]."

It returns the total number of tracks and total disc time for Program Play mode.

Command DE

Machine ID 0

Data 12 bytes

	Description	Remarks
Data 1	Tens digit of total number of tracks	If Data 1 – Data 4 is 0000, no program has been created.
Data 2	Ones digit of total number of tracks	
Data 3	Thousands digit of total number of tracks	
Data 4	Hundreds digit of total number of tracks	
Data 5	Tens digit of the minutes	
Data 6	Ones digit of the minutes	
Data 7	Hundreds digit of the minutes	
Data 8	Thousands digit of the minutes	
Data 9	Tens digit of the seconds	
Data 10	Ones digit of the seconds	
Data 11	Tens digit of the frames	
Data 12	Ones digit of the frames	

Request/Preset PGM TOTAL TRACK No./TOTAL TIME SENSE [5E]

**KEYBOARD TYPE RETURN**

This is the return command for the command "KEYBOARD TYPE SENSE[5F]."

It returns the type of PS/2 keyboard.

Command DF

Machine ID 0

Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Japanese Keyboard	The setting when a Japanese keyboard is connected
0	1	US Keyboard	The setting with an English keyboard is connected

Request/Preset KEYBOARD TYPE SENSE [5F]



**ERROR SENSE REQUEST**

This is transmitted when the controlled device is in an error condition.

If this command is transmitted from the controlled device, the external controller device should transmit the command "ERROR SENSE [78]" to determine the content of the error.

Command F0  
 Machine ID 0  
 Data none  
 Request/Preset none

**CAUTION SENSE REQUEST**

This is transmitted when the controlled device is in a caution condition.

If this command is transmitted from the controlled device, the external controller device should transmit the command "CAUTION SENSE [79]" to determine the content of the warning.

Command F1  
 Machine ID 0  
 Data none  
 Request/Preset none

**ILLEGAL STATUS**

This command is returned when an invalid command or data has been sent to the controlled device. If this command is transmitted from the controlled device, the external controller device should re-transmit the correct command or data in compliance with the specifications.

Command F2  
 Machine ID 0  
 Data none  
 Request/Preset none

**POWER ON STATUS**

This command indicates that the controlled device has been powered-on.

Command F4  
 Machine ID 0  
 Data none  
 Request/Preset none

**CHANGED STATUS**

This command indicates that the operation or mode of the controlled device has changed.

Command F6  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Description	Remarks
0	0	Changed Mechanical Status	The status of the mechanism has changed
0	3	Changed Track/EOM Status	The track number has changed. The EOM display/non-display state has changed.

Request/Preset none

**ERROR SENSE RETURN**

This is the return command for the command "ERROR SENSE [78]."

It returns an error code.

Command F8

Machine ID 0

Data 4 bytes

Data 1	N2	Error code (N1-N2N3)	
Data 2	N3	1-01	Rec Error
Data 3	0	1-08	Stand-By Error
Data 4	N1	1-09	Information Write Error

Request/Presets ERROR SENSE [78]

**CAUTION SENSE RETURN**

This is the return command for the command "CAUTION SENSE [79]."

It returns a caution code.

Command F9

Machine ID 0

Data 4 bytes

Data 1	N2	Warning code (N1-N2N3)	
Data 2	N3	1-03	Can't Undo
Data 3	0	1-04	Sure? Text
Data 4	N1	1-05	Eject Error
		1-06	Media Full
		1-07	Track Full
		1-09	D-In Unlock
		1-0A	No Call Point
		1-0B	Can't REC
		1-0C	Write Protected
		1-0D	Not Execute
		1-0F	Can't Edit
		1-13	Can't Select
		1-14	Track Protected
		1-15	Not Fs Unmatch
		1-16	Name Full
		1-18	Play List Error
		1-19	PGM Full
		1-1A	PGM Empty
		1-1B	Ext CLK Err
		1-1D	Not Audio
		1-1E	Decode Error
		1-1F	Media Not Match

Request/Presets none

**VENDER COMMAND RETURN**

This is the return command for the command "VENDER COMMAND [7F]."

The values of Data 1 and Data 2 are used to identify the corresponding function.

Command FF

Machine ID 0

Data -- byte

Data 1	Data 2	Description	Remarks
0	1	DEVICE SELECT SENSE	

Return VENDER COMMAND RETURN [FF]

➤ **DEVICE SELECT SENSE RETURN**

It returns the device select status of the controlled device.

(If the SS-R1 receives this command, it will transmit ILLEGAL [F2].)

Data 4byte

Data3	Data4	Description	Remarks
0	0	CF	Returns the CF device status.
0	1	CD	Returns the CD device status.