

1. Receive Data

■ Channel Voice Messages

● Control Change

Status	2nd byte	3rd byte
BnH	ccH	vvH

n = MIDI Channel number : 0H - 0FH (ch.1 - ch.16)

cc = Controller number : 01H - 1FH (1 - 31),
: 21H - 3FH (32 - 63),
: 40H - 5FH (64 - 95),
vv = Control value : 00H - 7FH (0 - 127)

* When "CC IN" is set to ON, the RV-200 receives only the channel of set to "MIDI RECEIVE CHANNEL". If "MIDI RECEIVE CHANNEL" is set to OFF, the RV-200 does not receive any messages.

* Correspondence between CC value and parameter value is as follows:

Parameter	Value
TIME CC	ROOM, HALL, PLATE, SPRING, SHIMMER, ARPVERB, SLOWVERB, LO-FI, GATE 0.1s(00H) - 10.0s(7FH) +DELAY 0.1s(00H) - 1.00s(7FH) REVERSE 0.1s(00H) - 1.0s(7FH)
PRE-DELAY CC	PRE-DELAY knob position 00 00H - 7F 7FH : 14bit value 00H - 7FH : 7bit value
E.LEVEL CC	E.LEVEL knob position 0(00H) - 100(7FH)
PARAM CC	PARAM knob position Min(00H) - Max(7FH) Mode dependent
LOW CC	LOW value -50(00H) - 50(7FH)
HIGH CC	HIGH value -50(00H) - 50(7FH)
ON/OFF SWITCH CC	ON/OFF switch Release: 00H - 3FH Press 40H - 7FH
MEMORY CC	MEMORY switch Release: 00H - 3FH Press 40H - 7FH
CTL1 CC	CTL1 switch Release: 00H - 3FH Press 40H - 7FH
CTL2 CC	CTL2 switch Release: 00H - 3FH Press 40H - 7FH
EXPRESSION CC	EXP pedal position Min(00H) - Max(7FH)
EFFECT ON/OFF CC	OFF 00H - 3FH ON 40H - 7FH

● Program Change

Status	2nd byte
CnH	ppH

n = MIDI Channel number : 0H - FH (ch.1 - ch.16)

pp = Program number : 00H - 7FH (prog.1 - prog.128)

* When "PC IN" is set to ON, the RV-200 receives only the channel number that set "MIDI RECEIVE CHANNEL". If "MIDI RECEIVE CHANNEL" is set to OFF, the RV-200 does not receive any messages.

* The correspondence between the program number and the memory number follows by "P 1" - "P128" parameters.

* If the value of "P 1" - "P128" parameter is set to "OFF," EFFECT SW is turn off.

※ The RV-200 ignores BANK SELECT (controller number: 0, 32) messages.

■ System Realtime Messages

● Active Sensing

Status
FEH

* After receiving the active sensing, the RV-200 will begin monitoring the interval of all further messages. While monitoring, if the interval between messages exceeds 450 ms, the RV-200 will reset the internal state and stop monitoring the interval of all messages.

■ System Exclusive Messages

Status	Data byte	Status
F0H	iiH, ddH,, eeH	F7H

F0H: System Exclusive Message status

ii = ID number: an ID number (manufacturer ID) to indicate the manufacturer whose Exclusive message this is. Roland's manufacturer ID is 41H. ID numbers 7EH is extensions of the MIDI standard; Universal Non-realtime Messages (7EH).

dd, ..., ee = data: 00H~7FH (0~127)

F7H: EOX (End Of Exclusive)

● Universal Non-realtime System Exclusive Messages

○ Identity Request Message

Status	Data byte	Status
F0H	7EH, dev, 06H, 01H	F7H

Byte Explanation

F0H: Exclusive status

7EH: ID number (Universal Non-realtime Message)

dev: Device ID (dev:10H, 7FH) * 7FH = Broadcast

06H: Sub ID # 1 (General Information)

01H: Sub ID # 2 (Identity Request)

F7H: EOX (End Of Exclusive)

* When this message is received, the RV-200 will transmit Identity Reply message.

2. Transmit data

* When “MIDI THRU” is set to ON, all received messages are transmitted.

■Channel Voice Messages

●Control Change

Status	2nd byte	3rd byte
BnH	ccH	vvH

n = MIDI Channel number : 0H – FH (ch.1 - ch.16)

cc = Controller number : 01H – 1FH (1 - 31),
: 21H - 3FH (33 - 63),
: 40H – 5FH (64 - 95)

vv = Control value : 00H - 7FH (0 - 127)

* When “CC OUT” is set to ON, the RV-200 transmits this message with the channel value set to the “MIDI TRANSMIT CHANNEL”. If “MIDI TRANSMIT CHANNEL” is set to OFF, the RV-200 does not transmit any messages.

* Correspondence between operator or parameter value and CC value is as follows:

Operator / Parameter VALUE	CC value
TIME: time value	ROOM, HALL, PLATE, SPRING, SHIMMER, ARPVERB, SLOWVERB, LO-FI, GATE 00H (0.1s) – 7FH (10.0s) +DELAY 00H (0.1s) – 7FH (1.00s) REVERSE 00H (0.1s) – 7FH (1.0s)
PRE-DELAY: value	00 00H (0) – 7F 7FH (200) : Controller number 01H – 1FH 00H (0) – 7FH (200) : Controller number 40H – 5FH
E.LEVEL: value	00H (0) – 7FH (100)
PARAM: knob position	00H (min) – 7FH (max)
LOW: value	00H (-50) – 7FH (50)
HIGH: value	00H (-50) – 7FH (50)
ON/OFF SWITCH	00H (RELEASE) 7FH (PRESS)
MEMORY SWITCH	00H (RELEASE) 7FH (PRESS)
CTL1 SWITCH	00H (RELEASE) 7FH (PRESS)
CTL2 SWITCH	00H (RELEASE) 7FH (PRESS)
EXPRESSION: position	00H (min) – 7FH (max)
EFFECT ON/OFF	00H (OFF) 7FH (ON)

●Program Change

Status	2nd byte
CnH	ppH

n = MIDI Channel number : 0H - FH (ch.1 - ch.16)

pp = Program number : 00H - 7FH (prog.1 - prog.128)

* When “PC OUT” is set to ON, the RV-200 transmits this message with the channel value set to the “MIDI TRANSMIT CHANNEL”. If “MIDI TRANSMIT CHANNEL” is set to OFF, the RV-200 does not transmit any messages.

* The correspondence between the MEMORY number and the program number is as follows:

MEMORY number	Program number
MANUAL	1
MEMORY 1	2
MEMORY 2	3
:	:
MEMORY 125	126
MEMORY 126	127
MEMORY 127	128

* Not modifiable (fixed)

* The RV-200 does not transmit BANK SELECT.

■System Realtime Messages

●Active Sensing

Status
FEH

* The RV-200 transmits active sensing at intervals of approximately 270 ms.

■System Exclusive messages

●Universal Non-realtime System Exclusive message

○Identity Reply message

When the RV-200 receives the appropriate “Identity Request Message” message, the RV-200 will transmit the requested data.

Status	Data byte	Status
F0H	7EH, dev, 06H, 02H, 41H, 0BH, 05H, 00H, 00H, r1, r2, r3, r4	F7

Byte	Explanation
F0H:	Exclusive status
7EH:	ID number (Universal non-realtime message)
dev:	Device ID (dev:10H)
06H:	Sub ID # 1 (General Information)
02H:	Sub ID # 2 (Identity Reply)
41H:	Manufacturer ID (Roland)
0BH 05H:	Device family code (RV-200)
00H:	Device family number code
r1 r2 r3 r4:	Software revision level (00H 00H 00H 00H)
F7H:	EOX (End Of Exclusive)

[REVERB]

Model RV-200

MIDI Implementation Chart

Date : Nov. 1, 2023

Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic	Default	1 - 16	1 - 16	Memorized
Channel	Changed	1 - 16, OFF	1 - 16, OFF	(Non-volatile)
Mode	Default	Mode 3	Mode 3	
	Messages	X	X	
	Altered	*****	X	
Note		X	X	
Number	True voice	*****		
Velocity	Note ON	X	X	
	Note OFF	X	X	
After	Key's	X	X	
Touch	Ch's	X	X	
Pitch Bend		X	X	
Control	0, 32	X	X	bank select
	1 - 31	o *1	o *1	*2
	33 - 63	o *1	o *1	*2 *3
	64 - 95	o *1	o *1	*2
Change				
Program		o *1	o *1	
Change	True Number	*****	0 - 127	
System Exclusive		o	o	
System	Song Position	X	X	
	Song Select	X	X	
	Tune Request	X	X	
System	Clock	X	X	
	Real Time Commands	X	X	
Aux	All Sounds OFF	X	X	
	Reset All Controllers	X	X	
	Local ON/OFF	X	X	
	All Notes OFF	X	X	
	Active Sensing	o	o	
	Reset	X	X	
Notes		*1 Switchable to o or x. *2 cc# is depends on the parameters. *3 If the range is greater than 127 and the CC# is 1 - 31(MSB), these (LSB) are used.		

Mode 1 : Omni On, Poly
Mode 3 : Omni Off, Poly

Mode 2 : Omni On, Mono
Mode 4 : Omni Off Mono

o : Yes
X : No