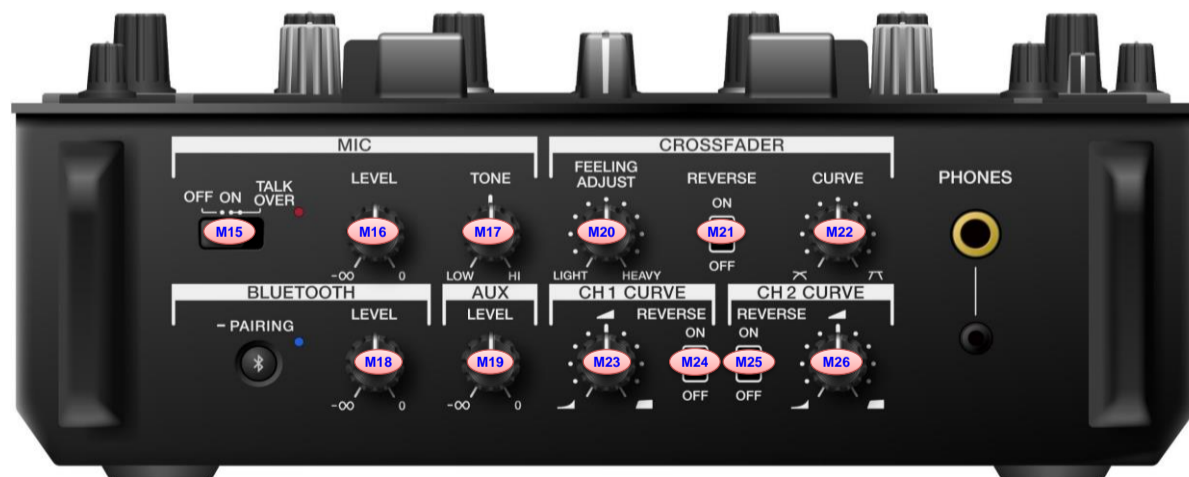
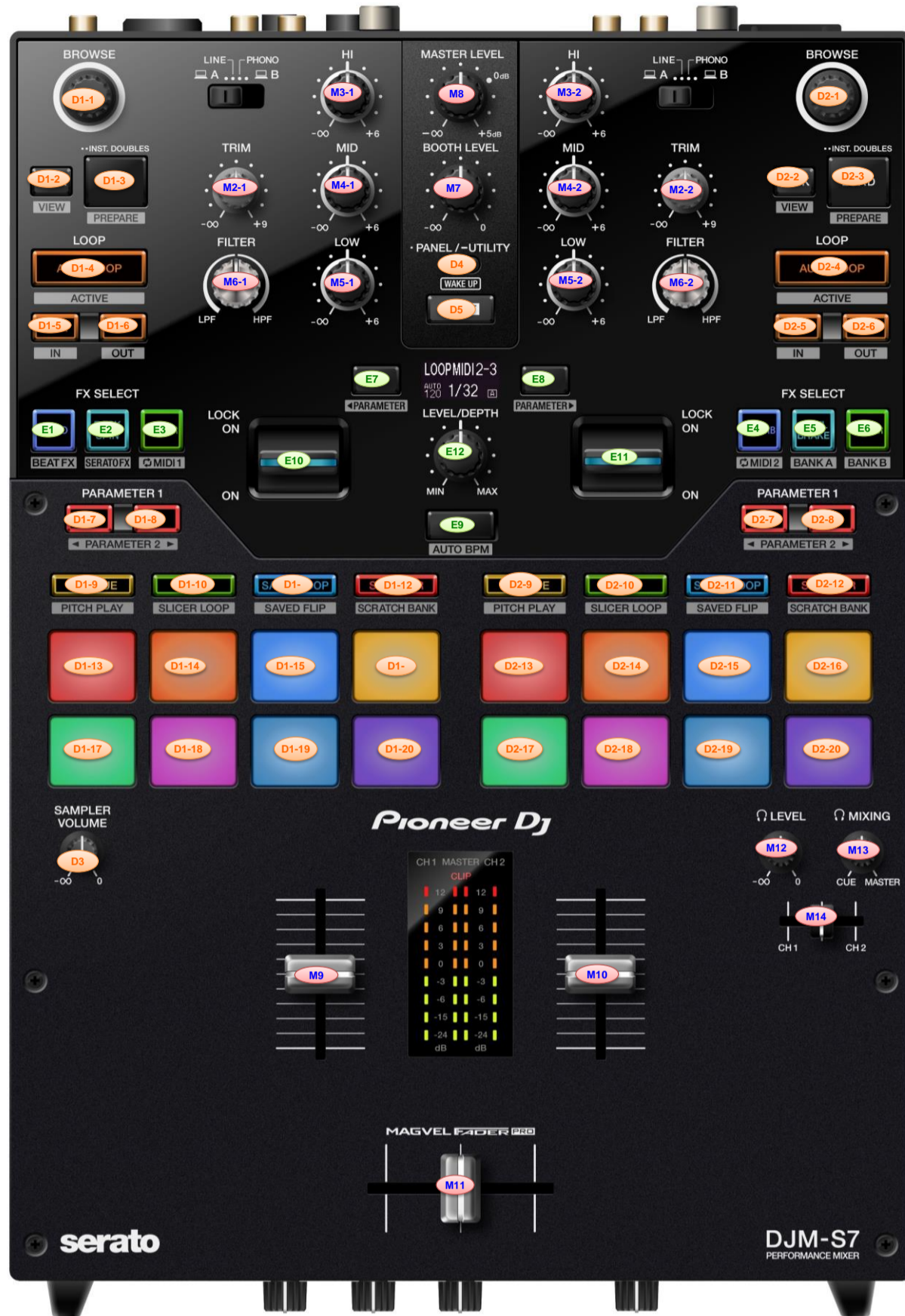


DJM-S7

List of MIDI message



【MIDI channel assignment】

MIDI channel is defined as shown below.

0x9* :Note * : value of channel No.(n/m/p)
 0xB* :Control Change(CC)

Channel Category	MIDI Channel	*(Hex)
DECK1	1	n=0
DECK2	2	n=1
FX DECK1	5	m=4
FX DECK2	6	m=5
Browser,Global Section	7	m=6
PERFORMANCE PAD (DECK1)	8	p=7
PERFORMANCE PAD (DECK2)	9	p=8

As a reference for MIDI assign, MIDI message sent from buttons and knobs of this controller are listed in decimal numbers and English scale. Please utilize this reference depending on the notation of your MIDI compatible software

NOTE is a term used for MIDI to express that a key of a keyboard or a piano is pressed or your finger is released from it. English scale uses alphabetical letters of C, D, E, F, G, A and B as well as # to indicate half tone

Group	Part No.	User Interface				MIDI assign reference				MIDI-IN (to computer)			MIDI-OUT (from computer)			Details(Data2)	
		UI name	Trigger	+SHIFT	Condition (mode)	MIDI Channel (Dec)	NOTE / CC	MIDI Data (Data 1)		Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)		
								(Dec)	(English scale)								
MIXER	M2-1 M2-2	TRIM	rotate			1/2	CC	4 36	-	Bn	04 24	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M3-1 M3-2	ISO HIGH	rotate			1/2	CC	7 39	-	Bn	07 27	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M4-1 M4-2	ISO MID	rotate			1/2	CC	11 43	-	Bn	0B 2B	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M5-1 M5-2	ISO LOW	rotate			1/2	CC	15 47	-	Bn	0F 2F	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M6-1 M6-2	FILTER	rotate			1/2	CC	1 33	-	Bn	01 21	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M7	BOOTH LEVEL	rotate			7	CC	9 41	-	B6	09 29	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	M8	MASTER LEVEL	rotate			7	CC	8 40	-	B6	08 28	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	D5	SHIFT	push			7	NOTE	63	D#4	96	3F	hh	/	/	/		
	M9 M10	CH FADER	slide	+SHIFT	Zero -> not Zero	1/2	NOTE	102	F#7	9n	66	hh	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) Min at bottom end, Max at top end	
						1/2	NOTE	81	A5	9n	51	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start with Sync Setting	
						1/2	NOTE	83	B5	9n	53	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from Current Cue Point.	
						1/2	NOTE	82	A#5	9n	52	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from HOT CUE1 Point.	
	M11	CROSSFADER	slide	+SHIFT	Min -> not Min	2	NOTE	102	F#7	91	66	hh	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) CROSSFADER REVERSE OFF : Min at left side, Max at right side CROSSFADER REVERSE ON : Min at right side, Max at left side	
						2	NOTE	81	A5	91	51	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start with Sync Setting	
						2	NOTE	83	B5	91	53	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from Current Cue Point.	
						2	NOTE	82	A#5	91	52	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from HOT CUE1 Point.	
						Max -> not Max	1	NOTE	102	F#7	90	66	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start with Sync Setting
							1	NOTE	81	A5	90	51	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from Current Cue Point.
							1	NOTE	83	B5	90	53	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F) Start from HOT CUE1 Point.
							1	NOTE	82	A#5	90	52	hh	/	/	/	OFF = 0 (0x00), ON = 127 (0x7F)
M12	HEADPHONE VOL	rotate			7	CC	13 45	-	B6	0D 2D	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M13	HEADPHONE MIX	rotate			7	CC	12 44	-	B6	0C 2C	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M14	HEADPHONE CUEFADER	slide			7	CC	14 46	-	B6	0E 2E	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M15	MIC ON/OFF/TALKOVER	slide			7	CC	79	G5	B6	4F	hh	/	/	/	OFF=0x00, ON=0x40, TALKOVER=0x7F		
M16	MIC LEVEL	rotate			/	/	/	/	/	/	/	/	/	/	Hardware Control		
M17	MIC TONE	rotate			7	CC	4 36	-	B6	04 24	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M18	BLUETOOTH LEVEL	rotate			7	CC	4 37	-	B6	05 25	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M19	AUX LEVEL	rotate			7	CC	11 43	-	B6	0B 2B	MSB LSB	/	/	/	Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383		
M20	CROSSFADER FEELING ADJUST	rotate			/	/	/	/	/	/	/	/	/	/	Hardware Control		

M21	CROSS FADER REVERSE	slide		7	NOTE	24	C1	96	18	hh				OFF=0x00, ON=0x7F	
M22	CROSS FADER CURVE	rotate		7	CC	1 33	-	B6	01 21	MSB LSB				Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
M23	CHANNEL 1 FADER CURVE	rotate		7	CC	2 34	-	B6	02 22	MSB LSB				Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
M24	CHANNEL1 FADER REVERSE	slide		7	NOTE	25	C#1	96	19	hh				OFF=0x00, ON=0x7F	
M25	CHANNEL 2 FADER REVERSE	slide		7	NOTE	32	G#1	96	20	hh				OFF=0x00, ON=0x7F	
M26	CHANNEL 2 FADER CURVE	rotate		7	CC	7 39	-	B6	07 27	MSB LSB				Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
EFFECT	E1	ECHO	push	BEAT FX selected	7	NOTE	0	C-1	96	00	hh				ON=0x7F
				SERATO FX selected	5	NOTE	112	E8	94	70	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	48	C3	96	30	hh				ON=0x7F
				LOOP MIDI2 selected	7	NOTE	54	F#3	96	36	hh				ON=0x7F
				+SHIFT	7	NOTE	12	C0	96	0C	hh				OFF=0x00, ON=0x7F
	E2	BACKSPIN	push	BEAT FX selected	7	NOTE	1	C#-1	96	01	hh				ON=0x7F
				SERATO FX selected	5	NOTE	113	F8	94	71	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	49	C#3	96	31	hh				ON=0x7F
				LOOP MIDI2 selected	7	NOTE	55	G3	96	37	hh				ON=0x7F
				+SHIFT	7	NOTE	13	C#0	96	0D	hh				OFF=0x00, ON=0x7F
	E3	FLANGER	push	BEAT FX selected	7	NOTE	2	D-1	96	02	hh				ON=0x7F
				SERATO FX selected	7	NOTE	114	F#8	94	72	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	50	D3	96	32	hh				ON=0x7F
				LOOP MIDI2 selected	7	NOTE	56	G#3	96	38	hh				ON=0x7F
				+SHIFT	7	NOTE	14	D0	96	0E	hh				OFF=0x00, ON=0x7F
	E4	REVERB	push	BEAT FX selected	7	NOTE	3	D#-1	96	03	hh				ON=0x7F
				SERATO FX selected	7	NOTE	112	E8	95	70	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	51	D#3	96	33	hh				ON=0x7F
				LOOP MIDI2 selected	7	NOTE	57	A3	96	39	hh				ON=0x7F
				+SHIFT	7	NOTE	15	D#0	96	0F	hh				OFF=0x00, ON=0x7F
	E5	VINYL BRAKE	push	BEAT FX selected	7	NOTE	4	E-1	96	04	hh				ON=0x7F
				SERATO FX selected	7	NOTE	113	F8	95	71	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	52	E3	96	34	hh				ON=0x7F
				LOOP MIDI2 selected	7	NOTE	58	A#3	96	3A	hh				ON=0x7F
				+SHIFT	7	NOTE	21	E0	96	15	hh				OFF=0x00, ON=0x7F
	E6	PHASER	push	BEAT FX selected	7	NOTE	5	F-1	96	05	hh				ON=0x7F
				SERATO FX selected	7	NOTE	114	F#8	96	72	hh				ON=0x7F
				LOOP MIDI1 selected	7	NOTE	53	F3	96	35	hh				ON=0x7F
LOOP MIDI2 selected				7	NOTE	59	B3	96	3B	hh				ON=0x7F	
+SHIFT				7	NOTE	23	F0	96	17	hh				OFF=0x00, ON=0x7F	
E7	BEAT LEFT	push	BEAT FX selected	7	NOTE	6	F#-1	96	06	hh				OFF=0x00, ON=0x7F	
			SERATO FX selected FX1-1/2/3	5	NOTE	6	F#-1	94	06	hh				OFF=0x00, ON=0x7F	
			SERATO FX selected FX2-1/2/3	6	NOTE	6	F#-1	95	06	hh				OFF=0x00, ON=0x7F	
			+SHIFT SERATO FX selected FX1-1/2/3	5	NOTE	18	F#0	94	12	hh				OFF=0x00, ON=0x7F	
			+SHIFT SERATO FX selected FX2-1/2/3	6	NOTE	18	F#0	95	12	hh				OFF=0x00, ON=0x7F	
E8	BEAT RIGHT	push	BEAT FX selected	7	NOTE	7	G-1	96	07	hh				OFF=0x00, ON=0x7F	
			SERATO FX selected FX1-1/2/3	5	NOTE	7	G-1	94	07	hh				OFF=0x00, ON=0x7F	
			SERATO FX selected FX2-1/2/3	6	NOTE	7	G-1	95	07	hh				OFF=0x00, ON=0x7F	
			+SHIFT SERATO FX selected FX1-1/2/3	5	NOTE	19	G0	94	13	hh				OFF=0x00, ON=0x7F	
			+SHIFT SERATO FX selected FX2-1/2/3	6	NOTE	19	G0	95	13	hh				OFF=0x00, ON=0x7F	
E9	TAP	push		7	NOTE	10	A#-1	96	0A	hh				OFF=0x00, ON=0x7F	
			+SHIFT	7	NOTE	22	A#0	96	16	hh				OFF=0x00, ON=0x7F	

	5	NOTE	80	G#5	94	50	hh				OFF=0x00, ON=0x7F
SERATO FX selected ECHO	5	NOTE	71	B4	94	47	hh				OFF=0x00, ON=0x7F
SERATO FX selected BACK SPIN	5	NOTE	72	C5	94	48	hh				OFF=0x00, ON=0x7F
SERATO FX selected FLANGER	5	NOTE	73	C#5	94	49	hh				OFF=0x00, ON=0x7F
SERATO FX selected REVERB	6	NOTE	71	B4	95	47	hh				OFF=0x00, ON=0x7F
SERATO FX selected VINYL BRAKE	6	NOTE	72	C5	95	48	hh				OFF=0x00, ON=0x7F
SERATO FX selected PHASER	6	NOTE	73	C#5	95	49	hh				OFF=0x00, ON=0x7F
LOOP MIDI1 selected ECHO	5	NOTE	48	C3	94	30	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected BACK SPIN	5	NOTE	49	C#3	94	31	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected FLANGER	5	NOTE	50	D3	94	32	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected REVERB	5	NOTE	51	D#3	94	33	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected VINYL BRAKE	5	NOTE	52	E3	94	34	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected PHASER	5	NOTE	53	F3	94	35	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected ECHO	5	NOTE	54	F#3	94	36	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected BACK SPIN	5	NOTE	55	G3	94	37	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected FLANGER	5	NOTE	56	G#3	94	38	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected REVERB	5	NOTE	57	A3	94	39	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected VINYL BRAKE	5	NOTE	58	A#3	94	3A	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected PHASER	5	NOTE	59	B3	94	3B	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
	5	NOTE	102	F#7	94	66	hh				OFF=0x00, ON=0x7F
LOOP MIDI1 selected ECHO	5	NOTE	115	G8	94	73	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI1 selected BACK SPIN	5	NOTE	116	G#8	94	74	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI1 selected FLANGER	5	NOTE	117	A8	94	75	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI1 selected REVERB	5	NOTE	118	A#8	94	76	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI1 selected VINYL BRAKE	5	NOTE	119	B8	94	77	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI1 selected PHASER	5	NOTE	120	C9	94	78	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected ECHO	5	NOTE	121	C#9	94	79	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected BACK SPIN	5	NOTE	122	D9	94	7A	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected FLANGER	5	NOTE	123	D#9	94	7B	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected REVERB	5	NOTE	124	E9	94	7C	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected VINYL BRAKE	5	NOTE	125	F9	94	7D	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
LOOP MIDI2 selected PHASER	5	NOTE	126	F#9	94	7E	hh				MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.
	6	NOTE	80	G#5	95	50	hh				OFF=0x00, ON=0x7F
SERATO FX selected ECHO	5	NOTE	71	B4	94	47	hh				OFF=0x00, ON=0x7F
SERATO FX selected BACK SPIN	5	NOTE	72	C5	94	48	hh				OFF=0x00, ON=0x7F
SERATO FX selected FLANGER	5	NOTE	73	C#5	94	49	hh				OFF=0x00, ON=0x7F
SERATO FX selected REVERB	6	NOTE	71	B4	95	47	hh				OFF=0x00, ON=0x7F
SERATO FX selected VINYL BRAKE	6	NOTE	72	C5	95	48	hh				OFF=0x00, ON=0x7F
SERATO FX selected PHASER	6	NOTE	73	C#5	95	49	hh				OFF=0x00, ON=0x7F
LOOP MIDI1 selected ECHO	5	NOTE	48	C3	94	30	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected BACK SPIN	5	NOTE	49	C#3	94	31	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected FLANGER	5	NOTE	50	D3	94	32	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected REVERB	5	NOTE	51	D#3	94	33	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected VINYL BRAKE	5	NOTE	52	E3	94	34	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI1 selected PHASER	5	NOTE	53	F3	94	35	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected ECHO	5	NOTE	54	F#3	94	36	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected BACK SPIN	5	NOTE	55	G3	94	37	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected FLANGER	5	NOTE	56	G#3	94	38	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected REVERB	5	NOTE	57	A3	94	39	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected VINYL BRAKE	5	NOTE	58	A#3	94	3A	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.
LOOP MIDI2 selected PHASER	5	NOTE	59	B3	94	3B	hh				While the lever switch is ON, a MIDI signal is transmitted periodically at the set beat.

E10

CH1 EFFECT LEVER

push

+SHIFT

E11

CH2 EFFECT LEVER

push

						6	NOTE	102	F#7	95	66	hh			OFF=0x00, ON=0x7F					
						6	NOTE	115	G8	95	73	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	116	G#8	95	74	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	117	A8	95	75	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	118	A#8	95	76	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	119	B8	95	77	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
					+SHIFT	6	NOTE	120	C9	95	78	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	121	C#9	95	79	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	122	D9	95	7A	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	123	D#9	95	7B	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	124	E9	95	7C	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	125	F9	95	7D	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
						6	NOTE	126	F#9	95	7E	hh			MIDI signal transmission only once when using SHIFT + LEVER. Not repeat.					
E12	LEVEL/DEPTH	rotate				7	CC	2 34	-	B6	0A 2A	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						5	CC	4 36	-	B4	02 22	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						5	CC	4 36	-	B4	04 24	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						5	CC	6 38	-	B4	06 26	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						6	CC	2 34	-	B5	02 22	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						6	CC	4 36	-	B5	04 24	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
						6	CC	6 38	-	B5	06 26	MSB LSB			Min(MSB:0x00 LSB:0x00)-Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383					
DECK	D1-1 D2-1	BROWSE	rotate	+ FX button		7	CC	64	-	Bn	40	hh			Difference count value from when previous operated Turn clockwise: 0x01~0x1E(max) (1~30clicks/40msec) Turn counterclockwise: 0x7F~0x62(max) (1~30clicks/40msec)					
						+SHIFT	7	CC	100	-	Bn	64	hh							
						rotate while pressing ECHO button (SERATO FX selected)	5	CC	80	-	B4	50	hh							
						rotate while pressing BACK SPIN button (SERATO FX selected)	5	CC	81	-	B4	51	hh							
						rotate while pressing FLANGER button (SERATO FX selected)	5	CC	82	-	B4	52	hh							
						rotate while pressing REVERB button (SERATO FX selected)	6	CC	83	-	B5	53	hh							
						rotate while pressing VINYL BRAKE button (SERATO FX selected)	6	CC	84	-	B5	54	hh							
						rotate while pressing PHASER button (SERATO FX selected)	6	CC	85	-	B5	55	hh							
						push	7	NOTE	65	F4	9n	41	hh				OFF=0x00, ON=0x7F			
						+SHIFT	7	NOTE	66	F#4	9n	42	hh				OFF=0x00, ON=0x7F			
					D1-2 D2-2	BACK	push			7	NOTE	104	#7	9n		68	hh			OFF=0x00, ON=0x7F
							+SHIFT			7	NOTE	103	G7	9n		67	hh			OFF=0x00, ON=0x7F
					D1-3 D2-3	LOAD	push			1/2	NOTE	70	A#4	9n		46	hh			OFF=0x00, ON=0x7F
							+SHIFT			1/2	NOTE	71	B4	9n		47	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F
D1-4 D2-4	AUTO LOOP	push			1/2	NOTE	68	G#4	9n	44	hh	← Same as MIDI-IN		OFF=0x00, 1/4beat = 0x01, 1/2beat = 0x02, 1beat = 0x03, 2beats = 0x04, 4beats = 0x05, 8beats = 0x06, 16beats = 0x07, LOOP OPTION=ON						
		+SHIFT			1/2	NOTE	20	G#0	9n	14	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F LOOP OPTION=OFF						
D1-5 D2-5	LOOP HALF	push			1/2	NOTE	18	F#0	9n	12	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						
		+SHIFT			1/2	NOTE	16	E0	9n	10	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						
D1-6 D2-6	LOOP DOUBLE	push			1/2	NOTE	19	G0	9n	13	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						
		+SHIFT			1/2	NOTE	17	F0	9n	11	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						
D1-7 D2-7	PARAM1 (LEFT)	push			1/2	NOTE	36	C2	9n	24	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						
		+SHIFT			1/2	NOTE	1	C#-1	9n	01	hh	← Same as MIDI-IN		OFF=0x00, ON=0x7F						

D1-8 D2-8	PARAM1 (RIGHT)	push		1/2	NOTE	44	G#2	9n	2C	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		1/2	NOTE	9	A-1	9n	09	hh	← Same as MIDI-IN
D1-9 D2-9	HOT CUE	push		1/2	NOTE	27	D#1	9n	1B	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		1/2	NOTE	105	A7	9n	69	hh	← Same as MIDI-IN
D1-10 D2-10	ROLL	push		1/2	NOTE	30	F#1	9n	1E	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		1/2	NOTE	107	B7	9n	6B	hh	← Same as MIDI-IN
D1-11 D2-11	SAVED LOOP	push		1/2	NOTE	32	G#1	9n	20	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		1/2	NOTE	109	C#8	9n	6D	hh	← Same as MIDI-IN
D1-12 D2-12	SAMPLER	push		1/2	NOTE	34	A#1	9n	22	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		1/2	NOTE	111	D#8	9n	6F	hh	← Same as MIDI-IN
D1-13 D2-13	PAD1	push		8/9	NOTE	0	C-1	9p	00	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	8	G#-1	9p	08	hh	← Same as MIDI-IN
D1-14 D2-14	PAD2	push		8/9	NOTE	1	G#-1	9p	01	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	9	A-1	9p	09	hh	← Same as MIDI-IN
D1-15 D2-15	PAD3	push		8/9	NOTE	2	D-1	9p	02	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	10	A#-1	9p	0A	hh	← Same as MIDI-IN
D1-16 D2-16	PAD4	push		8/9	NOTE	3	D#-1	9p	03	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	11	B-1	9p	0B	hh	← Same as MIDI-IN
D1-17 D2-17	PAD5	push		8/9	NOTE	4	E-1	9p	04	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	12	C0	9p	0C	hh	← Same as MIDI-IN
D1-18 D2-18	PAD6	push		8/9	NOTE	5	F-1	9p	05	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	13	C#0	9p	0D	hh	← Same as MIDI-IN
D1-19 D2-19	PAD7	push		8/9	NOTE	6	F#-1	9p	06	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	14	D0	9p	0E	hh	← Same as MIDI-IN
D1-20 D2-20	PAD 8	push		8/9	NOTE	7	G-1	9p	07	hh	← Same as MIDI-IN	OFF=0x00, ON=0x7F
			+SHIFT		8/9	NOTE	15	D#0	9p	0F	hh	← Same as MIDI-IN
D3	SAMPLER VOLUME	rotate		7	CC	3 35	-	B6	03 23	MSB LSB		Min(MSB:0x00 LSB:0x00)~Max(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383
D4	PANEL	push		7	NOTE	120	F#5	96	78	hh		OFF=0x00, ON=0x7F
			+SHIFT		7	NOTE	121	G5	96	79	hh	