MIDI Solutions Programmable Output Selector Operating Instructions

The MIDI Solutions Programmable Output Selector (hereafter referred to as POS) has a single MIDI input, two MIDI outputs, and a footswitch input. The outputs that incoming MIDI data is routed to are programmable and can be controlled by sending the POS Program Change messages or tapping a footswitch. There are nine options for the LED to indicate which outputs are selected. The POS can be programmed to send the All-Notes-Off and Sustain off messages when an output is turned on or off. All programmed settings are retained by the unit even after power is removed.

After receiving the following programming commands, the POS's LED will flash rapidly for about a second to indicate that it has been programmed. Please allow a few seconds for the setting to be stored in the POS's memory before sending the next command. Refer to the table below for conversions to hexadecimal values.

► The POS can store up to 128 programs which specify the outputs the MIDI data is routed to. To store these programs in memory, send the POS the following System Exclusive message (all values in Hexadecimal):

F0 00 00 50 1B 01 ab ab ab ... F7 where ab ab ab ... are the program settings starting with Program #0

a and b are set as follows: a = 0: Nothing sent to OutA

a = 1: All MIDI messages except notes sent to OutA

a = 2: All MIDI messages sent to OutA

b = 0: Nothing sent to OutB

b = 1: All MIDI messages except notes sent to OutB

b = 2: All MIDI messages sent to OutB

Example: To program the POS to route all messages to OutA in response to Program Change #0, and all messages to OutB in response to Program Change #1, send it the following programming command:

F0 00 00 50 1B 01 20 02 F7

▶ The POS can be programmed to change programs in response to incoming Program Change messages, or by holding down or tapping a footswitch. The POS can also send All-Notes-Off and Sustain-Off whenever an output is turned on or off. To program these parameters, send the POS the following System Exclusive message (all values in Hexadecimal):

F0 00 00 50 1B 00 aa tt (cc) F7 (cc is optional) aa, tt, and cc are set as follows:

aa = 00: Don't send All-Notes-Off and Sustain-Off

aa = 01: Send out All-Notes-Off and Sustain-Off whenever turning an output ON

aa = 02: Send out All-Notes-Off and Sustain-Off whenever turning an output OFF

tt = 00: Tap OFF - footswitch open selects Program #0, footswitch closed selects Program #1

tt = 01: Tap ON - tapping the footswitch increments through Programs

cc = MIDI channel to respond to Program Change messages on (see channel table below for values)

- if cc is omitted then incoming Program Changes are ignored and POS responds to footswitch only

► The POS's LED can be programmed to flash in a variety of ways to indicate the output status. With **ab** defined as above, the LED indication **ii** corresponding to the state of **ab** is programmed as follows:

F0 00 00 50 1B 02 ab ii F7 where ii is set as follows:

ii = 00: LED OFF ii = 01: LED flashes once/second ii = 02: LED flashes twice/second

ii = 03: LED flashes three times/second ii = 04: LED constant flash ii = 05: LED rapid flash

ii = 06: LED ON ii = 07: LED ON flashing OFF briefly when data is passed through POS

ii = 08: LED OFF flashing ON briefly when data is passed through POS

Example: To program the POS's LED to flash rapidly when all MIDI messages are being routed to OutA and OutB, send it the following command: **F0 00 00 50 1B 02 22 05 F7**

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Dec/Hex		H	EX	AD	EC	M	AL	CC)N	VE	RS	101	1 T	ABI	LE
0	00	16	10	32	20	48	30	64	40	80	50	96	60	112	70
1	01	17	11	33	21	49	31	65	41	81	51	97	61	113	71
2	02	18	12	34	22	50	32	66	42	82	52	98	62	114	72
3	03	19	13	35	23	51	33	67	43	83	53	99	63	115	73
4	04	20	14	36	24	52	34	68	44	84	54	100	64	116	74
5	05	21	15	37	25	53	35	69	45	85	55	101	65		75
6	06	22	16	38	26	54	36	70	46	86	56	102	66	118	76
7	07	23	17	39	27	55	37	71	47	87	57	103	67	119	77
8	80	24	18	40	28	56	38	72	48	88	58	104	68	120	78
9	09	25	19	41	29	57	39	73	49	89	59	105	69	121	79
10	0A	26	1A	42	2A	58	3A	74	4A	90	5A	106	6A	122	7A
11	0B	27	1B	43	2B	59	3B	75	4B	91	5B	107	6B		7B
12	0C	28	1C	44	2C	60	3C	76	4C	92	5C	108	6C	124	7C
13	0D	29	1D	45	2D	61	3D	77	4D	93	5D	109	6D		7D
14	0E	30	1E	46	2E	62	3E	78	4E	94	5E	110	6E		7E
15	0F	31	1F	47	2F	63	3F	79	4F	95	5F	l 111	6F	127	7F I

MIDI CHANNEL TABLE

cc must be set according to the following table:

Char	١.	CC	Chan.	CC	Chan.	CC
1	-	00	7 -	06	13 -	0C
2	-	01	8 -	07	14 -	0D
3	-	02	9 -	80	15 -	0E
4	-	03	10 -	09	16 -	0F
5	-	04	11 -	0A	ALL -	7F
6	_	05	12 -	0B		