

```

; written by Owen Jones
; first input board REVISION 20110926 REV 7
; revision 8 20120129
; revision 9 20120131 add real orchbells
; revision 10 20120207 code tidy up
; revision 11 20120209 transpose experiments.
; revision 14 20120425 stop layout changed
; revision 15 20120503 new trash drawers
; revision 16 20120515 replaced first module with a type b.
; revision 17 20120530 rewrite code for input board 4

```

```

*umidi_module_b ;module 1 INPUT BD 1; PEDAL AND ACCOMP STOPS
*input_64 ;input bd 1
*ibit=ped_contra_dipahone_32 *bit=1 c11n1
*ibit=ped_contra_bourdon_32 *bit=2 c11n2
*ibit=ped_post_horn_16 *bit=3 c11n3
*ibit=ped_tuba_horn_16 *bit=4 c11n4
*ibit=ped_diaphone_16 *bit=5 c11n5
*ibit=ped_diaphonic_horn_16 *bit=6 c11n6
*ibit=ped_tibia_clausa_16 *bit=7 c11n7
*ibit=ped_violone_16 *bit=8 c11n8
*ibit=ped_oboe_horn_16 *bit=9 c11n9
*ibit=ped_bourdon_16 *bit=10 c11n10
*ibit=ped_post_horn_8 *bit=11 c11n11
*ibit=ped_acc_to_pedal *bit=12 c11n12
*ibit=ped_solo_to_pedal *bit=13 c11n13
*ibit=ped_tuba_horn_8 *bit=14 c11n14
*ibit=ped_open_diapason_8 *bit=15 c11n15
*ibit=ped_horn_diapason_8 *bit=16 c11n16
*ibit=ped_tibia_clausa_8 *bit=17 c11n17
*ibit=ped_tibia_pizzicato_8 *bit=18 c11n18
*ibit=ped_clarinet_8 *bit=19 c11n19
*ibit=ped_strings_8 *bit=20 c11n20
*ibit=ped_concert_flute_8 *bit=21 c11n21
*ibit=ped_piano_16 *bit=22 c11n22
*ibit=ped_piano_8 *bit=23 c11n23
*ibit=ped_bass_drum *bit=24 c11n24
*ibit=ped_cymbal *bit=25 c11n25
*ibit=acc_dolce_8 *bit=26 c11n26
*ibit=acc_open_diapason_4 *bit=27 c11n27
*ibit=acc_octave_horn_4 *bit=28 c11n28
*ibit=acc_tibia_clausa_m_4 *bit=29 c11n29
*ibit=acc_solo_string_4 *bit=30 c11n30
*ibit=acc_vdo_4 *bit=31 c11n31
*ibit=acc_salicional_4 *bit=32 c11n32
*ibit=acc_post_horn_8 *bit=33 c11n33
*ibit=acc_tuba_mirabilis_8 *bit=34 c11n34
*ibit=acc_brass_trumpet_8 *bit=35 c11n35
*ibit=acc_tuba_horn_8 *bit=36 c11n36
*ibit=acc_diaphone_8 *bit=37 c11n37
*ibit=acc_open_diapason_8 *bit=38 c11n38
*ibit=acc_horn_diapason_8 *bit=39 c11n39
*ibit=acc_tibia_clausa_m_8 *bit=40 c11n40
*ibit=acc_clarinet_8 *bit=41 c11n41
*ibit=acc_oboe_horn_8 *bit=42 c11n42
*ibit=acc_solo_string_8 *bit=43 c11n43
*ibit=acc_vdo_8 *bit=44 c11n44
*ibit=acc_salicional_8 *bit=45 c11n45
*ibit=acc_quintadena_8 *bit=46 c11n46
*ibit=acc_lieblich_flute_8 *bit=47 c11n47
*ibit=acc_concert_flute_8 *bit=48 c11n48
*ibit=acc_vox_humana_s_8 *bit=49 c11n49
*ibit=acc_vox_humana_m_8 *bit=50 c11n50
*ibit=great_post_horn_16 *bit=51 c11n51
*ibit=great_tuba_mirabilis_16 *bit=52 c11n52
*ibit=great_brass_trumpet_16 *bit=53 c11n53
*ibit=acc_quintadena_4 *bit=54 c11n54
*ibit=acc_lieblich_flute_4 *bit=55 c11n55
*ibit=acc_concert_flute_4 *bit=56 c11n56
*ibit=acc_vox_humana_m_4 *bit=57 c11n57

```

*ibit=acc_dolce_4	*bit=58	c11n58
*ibit=acc_twelfth_223	*bit=59	c11n59
*ibit=acc_tibia_clausa_m_2	*bit=60	c11n60
*ibit=acc_piccolo_2	*bit=61	c11n61
*ibit=acc_piano_8	*bit=62	c11n62
*ibit=acc_marimba_8	*bit=63	c11n63
*ibit=acc_marimba_4	*bit=64	c11n64

\*umidi\_module ;module 2 INPUT BD 2; ACCOMP AND GREAT STOPS

*input_64 ;input bd 2		
*ibit=acc_chrysoglott	*bit=1	c12n1
*ibit=acc_orch_harp	*bit=2	c12n2
*ibit=acc_octave	*bit=3	c12n3
*ibit=acc_solo_to_accomp	*bit=4	c12n4
*ibit=great_vox_humana_s_8	*bit=5	c12n5
*ibit=great_vox_humana_m_8	*bit=6	c12n6
*ibit=great_tibia_quint_513	*bit=7	c12n7
*ibit=great_trumpet_d_16	*bit=8	c12n8
*ibit=great_tuba_horn_16	*bit=9	c12n9
*ibit=great_open_diapason_16	*bit=10	c12n10
*ibit=great_diaphonic_horn_16	*bit=11	c12n11
*ibit=great_tibia_clausa_s_16	*bit=12	c12n12
*ibit=great_tibia_clausa_m_16	*bit=13	c12n13
*ibit=great_clarinet_16	*bit=14	c12n14
*ibit=great_krumet_16	*bit=15	c12n15
*ibit=great_orch_oboe_16	*bit=16	c12n16
*ibit=great_musette_16	*bit=17	c12n17
*ibit=great_saxophone_16	*bit=18	c12n18
*ibit=great_solo_string_16	*bit=19	c12n19
*ibit=great_strings_16	*bit=20	c12n20
*ibit=great_oboe_horn_16	*bit=21	c12n21
*ibit=great_bourdon_16	*bit=22	c12n22
*ibit=great_vox_humana_s_16	*bit=23	c12n23
*ibit=great_vox_humana_m_16	*bit=24	c12n24
*ibit=great_post_horn_8	*bit=25	c12n25
*ibit=great_tuba_mirabilis_8	*bit=26	c12n26
*ibit=great_brass_trumpet_8	*bit=27	c12n27
*ibit=great_tuba_horn_8	*bit=28	c12n28
*ibit=great_trumpet_d_8	*bit=29	c12n29
*ibit=great_open_diapason_8	*bit=30	c12n30
*ibit=great_horn_diapason_8	*bit=31	c12n31
*ibit=great_tibia_clausa_s_8	*bit=32	c12n32
*ibit=great_tibia_clausa_m_8	*bit=33	c12n33
*ibit=great_clarinet_8	*bit=34	c12n34
*ibit=great_krumet_8	*bit=35	c12n35
*ibit=great_orch_oboe_8	*bit=36	c12n36
*ibit=great_kinura_8	*bit=37	c12n37
*ibit=great_musette_8	*bit=38	c12n38
*ibit=great_saxophone_8	*bit=39	c12n39
*ibit=great_orchestral_strings_8	*bit=40	c12n40
*ibit=great_solo_string_8	*bit=41	c12n41
*ibit=great_vdo_8	*bit=42	c12n42
*ibit=great_salicional_8	*bit=43	c12n43
*ibit=great_spitz_flute_cel_8	*bit=44	c12n44
*ibit=great_oboe_horn_8	*bit=45	c12n45
*ibit=great_spitz_flute_8	*bit=46	c12n46
*ibit=great_quintadena_8	*bit=47	c12n47
*ibit=great_lieblich_flute_8	*bit=48	c12n48
*ibit=great_concert_flute_8	*bit=49	c12n49
*ibit=great_dolce_8	*bit=50	c12n50
*ibit=great_open_diapason_4	*bit=51	c12n51
*ibit=great_tibia_clausa_s_4	*bit=52	c12n52
*ibit=great_tibia_clausa_m_4	*bit=53	c12n53
*ibit=great_strings_IV_4	*bit=54	c12n54
*ibit=great_vdo_4	*bit=55	c12n55
*ibit=great_salicional_4	*bit=56	c12n56
*ibit=great_lieblich_flute_4	*bit=57	c12n57
*ibit=great_concert_flute_4	*bit=58	c12n58
*ibit=great_vox_humana_s_4	*bit=59	c12n59
*ibit=great_dolce_4	*bit=60	c12n60
*ibit=great_tibia_315	*bit=61	c12n61

*ibit=great_tibia_213	*bit=62	c12n62
*ibit=great_flute_twelfth_213	*bit=63	c12n63
*ibit=great_tibia_clausa_s_2	*bit=64	c12n64

\*umidi\_module\_b ;module 3 INPUT BD 3; GREAT AND SOLO STOPS

*input_64 ;input bd 3		
*ibit=great_tibia_clausa_m_2	*bit=1	c13n1
*ibit=great_salicional_2	*bit=2	c13n2
*ibit=great_piccolo_2	*bit=3	c13n3
*ibit=great_tibia_clausa_135	*bit=4	c13n4
*ibit=great_fife_1	*bit=5	c13n5
*ibit=great_piano_16	*bit=6	c13n6
*ibit=great_piano_8	*bit=7	c13n7
*ibit=great_harp_wood_4	*bit=8	c13n8
*ibit=great_xylophone_4	*bit=9	c13n9
*ibit=great_chrysoglott_4	*bit=10	c13n10
*ibit=great_glockenspiel_2	*bit=11	c13n11
*ibit=great_sub_octave_16	*bit=12	c13n12
*ibit=great_unison_off	*bit=13	c13n13
*ibit=great_octave	*bit=14	c13n14
*ibit=great_solo_sub_to_great	*bit=15	c13n15
*ibit=great_solo_to_great	*bit=16	c13n16
*ibit=great_solo_to_great_pizz	*bit=17	c13n17
*ibit=solo_post_horn_16	*bit=18	c13n18
*ibit=solo_post_horn_8	*bit=19	c13n19
*ibit=solo_tuba_mirabilis_8	*bit=20	c13n20
*ibit=solo_brass_trumpet_8	*bit=21	c13n21
*ibit=solo_trumpet_d_8	*bit=22	c13n22
*ibit=solo_tuba_horn_8	*bit=23	c13n23
*ibit=solo_diaphone_8	*bit=24	c13n24
*ibit=solo_open_diapason_8	*bit=25	c13n25
*ibit=solo_tibia_clausa_s_8	*bit=26	c13n26
*ibit=solo_tibia_clausa_m_8	*bit=27	c13n27
*ibit=solo_clarinet_8	*bit=28	c13n28
*ibit=solo_krumet_8	*bit=29	c13n29
*ibit=solo_orch_oboe_8	*bit=30	c13n30
*ibit=solo_kinura_8	*bit=31	c13n31
*ibit=solo_musette_8	*bit=32	c13n32
*ibit=solo_saxophone_8	*bit=33	c13n33
*ibit=solo_gambas_8	*bit=34	c13n34
*ibit=solo_strings_IV_8	*bit=35	c13n35
*ibit=solo_french_horn_8	*bit=36	c13n36
*ibit=great_melody_coupler	*bit=39	c13n39
*ibit=solo_oboe_horn_8	*bit=37	c13n37
*ibit=solo_lieblich_flute_8	*bit=38	c13n38
*ibit=solo_quintadena_8	*bit=40	c13n40
*ibit=solo_orchestral_flute_8	*bit=41	c13n41
*ibit=solo_vox_humana_s_8	*bit=42	c13n42
*ibit=solo_tibia_clausa_s_4	*bit=43	c13n43
*ibit=solo_tibia_clausa_m_4	*bit=44	c13n44
*ibit=solo_tibia_clausa_s_213	*bit=45	c13n45
*ibit=solo_tibia_clausa_s_2	*bit=46	c13n46
*ibit=solo_tibia_clausa_s_135	*bit=47	c13n47
*ibit=solo_tibia_clausa_s_113	*bit=48	c13n48
*ibit=solo_tibia_clausa_s_1	*bit=49	c13n49
*ibit=solo_piano_8	*bit=50	c13n50
*ibit=solo_harp_wood_8	*bit=51	c13n51
*ibit=solo_vibraphone	*bit=52	c13n52
*ibit=solo_chrysoglott	*bit=53	c13n53
*ibit=solo_orchestral_harp	*bit=54	c13n54
*ibit=solo_chrysoglott_4	*bit=55	c13n55
*ibit=solo_xylophone	*bit=56	c13n56
*ibit=solo_orchbell	*bit=57	c13n57
*ibit=solo_cathedral_chimes	*bit=58	c13n58
*ibit=solo_sub_octave_16	*bit=59	c13n59
*ibit=solo_unison_off	*bit=60	c13n60
*ibit=solo_octave_4	*bit=61	c13n61
*ibit=solo_super_octave_2	*bit=62	c13n62
*ibit=solo_17th_135	*bit=63	c13n63

```

*umidi_module_b      ;module 4 INPUT BD 4, ACCOMP PISTONS, TRAPS, TREMS SWELLS CRESCENDO.
*control=mainswell  *midi_channel=8  *bit=1  *midi_controller=7 *range=0,127
*control=soloswell  *midi_channel=9  *bit=2  *midi_controller=7 *range=0,127
*control=crescendo  *midi_channel=10 *bit=3  *midi_controller=2 *range=0,127

```

```

;modified code to be inserted here. 20120530

```

```



```

```
;  
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

```
*umidi_module_b ;module 5 PISTONS;  
*hv64 ;input bd 5  
*ibit=gen_6 *bit=1 c15n34  
*ibit=gen_7 *bit=2 c15n35  
*ibit=gen_8 *bit=3 c15n36  
*ibit=gen_9 *bit=4 c15n37  
*ibit=gen_10 *bit=5 c15n38  
*ibit=great_pp *bit=6 c15n39  
*ibit=great_p *bit=7 c15n40  
*ibit=great_mf *bit=8 c15n41  
*ibit=great_f *bit=9 c15n42  
*ibit=great_ff *bit=10 c15n43  
*ibit=great_1 *bit=11 c15n44  
*ibit=great_2 *bit=12 c15n45  
*ibit=great_3 *bit=13 c15n46  
*ibit=great_4 *bit=14 c15n47  
*ibit=great_5 *bit=15 c15n48  
*ibit=great_6 *bit=16 c15n49  
*ibit=great_7 *bit=17 c15n50  
*ibit=great_8 *bit=18 c15n51  
*ibit=great_9 *bit=19 c15n52  
*ibit=great_10 *bit=20 c15n53  
*ibit=great_11 *bit=21 c15n54  
*ibit=great_12 *bit=22 c15n55  
*ibit=great_13 *bit=23 c15n56  
*ibit=great_cancel *bit=24 c15n57; grt #14  
*ibit=hw_cancel *bit=25 c15n58; grt #15  
;*ibit=mem_minus *bit=26 c15n59 ;included in inc-dec statement  
;*ibit=mem_plus *bit=27 c15n60 ;included in inc-dec statement  
*ibit=gen_1 *bit=28 c16n40  
*ibit=gen_2 *bit=29 c16n41  
*ibit=gen_3 *bit=30 c16n42  
*ibit=gen_4 *bit=31 c16n43  
*ibit=gen_5 *bit=32 c16n44  
*ibit=acc_pp *bit=33 c16n45  
*ibit=acc_p *bit=34 c16n46  
*ibit=acc_mf *bit=35 c16n47  
*ibit=acc_f *bit=36 c16n48  
*ibit=acc_ff *bit=37 c16n49  
;*ibit=trans_minus *bit=38 c16n50 ;included in inc-dec statement  
;ibit=trans_plus *bit=39 c16n51 ;included in inc-dec statement  
*ibit=map_button *bit=40 c16n52  
*ibit=set_button *bit=41 c16n53  
*ibit=gen_11 *bit=42 c16n54  
*ibit=gen_12 *bit=43 c16n55  
*ibit=gen_13 *bit=44 c16n56  
*ibit=gen_14 *bit=45 c16n57;  
*ibit=gen_15 *bit=46 c16n58;  
*ibit=solo_pp *bit=47 c16n59  
*ibit=solo_p *bit=48 c16n60  
*ibit=solo_mf *bit=49 c16n61  
*ibit=solo_f *bit=50 c16n62  
*ibit=solo_ff *bit=51 c16n63
```

```
; if the clear transpose toe stud is pressed to revert the pitch to normal,  
;then we need to re-initialise the *inc-dec (transpose)  
;to the value of seven or normal pitch;  
;it has nothing to do the the actual value in controller 17.  
;GREAT SLIP PISTONS LEFT HAND SIDE.  
*inc_dec=memory *bits=27,26 *range=0,11 *init=0 c16c56
```

```
;ACCOMP SLIP PISTONS LEFT HAND SIDE  
*inc_dec=transpose *bits=39,38 *range=1,13 *init=7 c16c17
```

```
*umidi_module_b ;module 6 ; PEDALBOARD
```

```
*hv64 ;input bd 6 ; ACCOMP & SOLO PISTONS 1 ~ 15
*division=ped *bits= 1,32 c3n36 ;c3n36
```

```
*ibit=solo_1          *bit=33      c15n1
*ibit=solo_2          *bit=34      c15n2
*ibit=solo_3          *bit=35      c15n3
*ibit=solo_4          *bit=36      c15n4
*ibit=solo_5          *bit=37      c15n5
*ibit=solo_6          *bit=38      c15n6
*ibit=solo_7          *bit=39      c15n7
*ibit=solo_8          *bit=40      c15n8
*ibit=solo_9          *bit=41      c15n9
*ibit=solo_10         *bit=42      c15n10
*ibit=solo_11         *bit=43      c15n11
*ibit=solo_12         *bit=44      c15n12
*ibit=solo_13         *bit=45      c15n13
*ibit=solo_14         *bit=46      c15n14
*ibit=solo_cancel     *bit=47      c15n15; was solo #15
*ibit=trem_s_on       *bit=48      c15n16; was accomp #1
*ibit=trem_s_off      *bit=49      c15n17; was accomp #2
*ibit=acc_3           *bit=50      c15n18
*ibit=acc_4           *bit=51      c15n19
*ibit=acc_5           *bit=52      c15n20
*ibit=acc_6           *bit=53      c15n21
*ibit=acc_7           *bit=54      c15n22
*ibit=acc_8           *bit=55      c15n23
*ibit=acc_9           *bit=56      c15n24
*ibit=acc_10          *bit=57      c15n25
*ibit=acc_11          *bit=58      c15n26
*ibit=acc_12          *bit=59      c15n27
*ibit=acc_13          *bit=60      c15n28
*ibit=accomp_cancel   *bit=61      c15n29; was accomp #14
*ibit=gen_cancel      *bit=62      c15n30; was accomp #15
```

```
*umidi_module_b ;module 7 lighted pistons - stops
```

```
*LIGHTED_STOP *COUNT=1 c12n70
*ibit=solo_lieblich_flute_4 *bit=1 ; 70 1
*ibit=solo_strings_4 *bit=2 ; 71 2
*ibit=solo_voxes_4 *bit=3 ; 72 3
*ibit=solo_twelfth_223 *bit=4 ; 73 4
*ibit=solo_lieblich_flute_2 *bit=5 ; 74 5
*ibit=solo_vox_dolce *bit=6 ; 75 6
*ibit=solo_sleigh_bells *bit=7 ; 76 7
*ibit=solo_string_to_flauto *bit=8 ; 77 8
```

```
*LIGHTED_STOP *COUNT=1 c12n78
*ibit=swell_master *bit=1 ; 78 9
*ibit=air_chamber_noise *bit=2 ; 79 10
*ibit=dampers *bit=3 ; 80 11
*ibit=ped_bass_drum_roll *bit=4 ; 81 12
*ibit=ped_timpani_reit *bit=5 ; 82 13
*ibit=ped_timpani *bit=6 ; 83 14
*ibit=ped_kinura_8 *bit=7 ; 84 15
*ibit=piano_sustain *bit=8 ; 85 16
```

```
*LIGHTED_STOP *COUNT=1 c12n86
*ibit=ped_temple_block *bit=1 ; 86 17
*ibit=perc_reit *bit=2 ; 87 18
*ibit=acc_french_horn_8 *bit=3 ; 88 19
*ibit=acc_maracas *bit=4 ; 89 20
*ibit=acc_sand_block *bit=5 ; 90 21 *ibit=ped_string_bass
*bit=6 ; 91 22
```

```
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
*umidi_module; module 8 SPLITTER used to take stop info straight to the PC
```

```
*midi_command (clear_memory) c16c56,0
```

```
*midi_command (clear_transpose) c16c17,6
```

```
; there must be a method of also initialising the inputs for these when these commands
; are received. The idea is to zero the memory and transpose, so that when either of
```

```

these
; buttons are pressed, they will not revert back the number last pressed plus or minus.
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
;MODULE DEFINITION FOR DUAL MAGNETIC STOPS.
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 9 DRIVER BOARD ONE
*rank_driver=mag1 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 10 DRIVER BOARD TWO
*rank_driver=mag2 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 11 DRIVER BOARD THREE
*rank_driver=mag3 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 12 DRIVER BOARD FOUR
*rank_driver=mag4 ;40 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 13 DRIVER BOARD FIVE
*rank_driver=mag5 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 14 DRIVER BOARD SIX
*rank_driver=mag6 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 15 DRIVER BOARD SEVEN
*rank_driver=mag7 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 16 DRIVER BOARD EIGHT
*rank_driver=mag8 ;32 stops
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
;KEYBOARDS
*umidi_module_b ;module 17 SOLO AND GREAT KEYBOARDS
*hv64 ;input board 7
*division=solo *bits= 1,61 c4n36 ;C4n36
*hv64 ;input board 8
*division=grt *bits= 1,61 c1n36 ;c1n36
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 18 ACCOMP KEYBOARD
*hv64 ;input board 9
*division=acc *bits= 1,61 c2n36 ;c2n36
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 19 ACCOMP2ND TOUCH; GREAT 2ND TOUCH
*hv64 ;input board 10
*division=acc2nd *bits= 1,61 c5n36
*hv64 ;input board 11
*division=grt2nd *bits= 1,61 c6n36
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module_b ;module 20 COUPLERS AND TRANSPOSE
;INTERNAL COUPLERS NO TABS
*coupler (1) grt to grt
*coupler (grt2_solo_to_grt2_8) solo to grt2nd *offset=0
*coupler (grt2_solo_to_grt2_16) solo to grt2nd *offset=-12
*coupler (1) grt2nd to grt2nd
*coupler (1) solo to solo
*coupler (ped_solo_to_pedal) solo to ped *offset=0
*coupler (1) acc to acc
*coupler (1) ped to ped
*coupler (1) acc2nd to acc2nd
;*coupler (acc_solo_to_accomp) solo to acc
*coupler (ped_grt_to_pedal_8) grt to ped *offset=0
*coupler (solo_super_octave_2) solo to solo *offset=24
*coupler (solo_17th_135) solo to solo *offset=28
*coupler (great_solo_sub_to_great) solo to grt *offset=-12
*coupler (great_solo_to_great) solo to grt *offset=0

;INTERNAL
*transpose ((transpose !=0) * (transpose - 6))

;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*umidi_module ; module 21 SPLITTER used to take the LCD out of the MIDI chain
*rank_driver *rank=orchbells *bits=1,60
*relay (solo_orchbell) *div=solo *rank=orchbells

```

```

*midi_channel_truncate=07,0
*midi_channel_truncate=08,0
*midi_channel_truncate=09,0
*midi_channel_truncate=10,0
*midi_channel_truncate=11,0
*midi_channel_truncate=12,0
*midi_channel_truncate=13,0
*midi_channel_truncate=14,0
*midi_channel_truncate=15,0
*midi_channel_truncate=16,0

;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
;DISPLAY UNIT
*umidi_module_b ;Module 22
*serial_lcd
*contrast (55)
*backlight (100)
"\004\020\024"
*unsigned *decimal 2
*line 1 "Cres=" (crescendo) " Mem=" (memory)
*signed *decimal 1
*if(transpose !=0) { " Tr=" (transpose - 6) } *else { " " }
*unsigned *decimal 2
*line 2
*if(gen_cancel) { " " }
*if(solo_cancel) { " " }
*if(accomp_cancel) { " " }
*if(set_button | map_button) { " " }
*if(solo_lieblich_flute_4) { "T4 " } *else { " " }
*if(solo_strings_4) { "S4 " } *else { " " }
*if(solo_voxes_4) { "V4 " } *else { " " }
*if(solo_twelfth_223) { "12 " } *else { " " }
*if(solo_lieblich_flute_2) { "T2 " } *else { " " }
*if(solo_vox_dolce) { "SV " } *else { " " }
*if(solo_string_to_flauto) { "SF" } *else { " " }

*if(!c16n53 & !c16n52) {
*line 3 }
*if(gen_cancel) { " " }
*if(solo_cancel) { " " }
*if(accomp_cancel) { " " }
*if(solo_sleigh_bells) { "SB " } *else { " " }
*if(ped_temple_block) { "TB " } *else { " " }
*if(swell_master) { "SM " } *else { " " }
*if(air_chamber_noise) { "AN " } *else { " " }
*if(dampers) { "DM " } *else { " " }
*if(piano_sustain) { "PS " } *else { " " }
*if(perc_reit) { "RE" } *else { " " }
*line 4
*if(gen_cancel) { " " }
*if(solo_cancel) { " " }
*if(accomp_cancel) { " " }
*if(acc_french_horn_8) { "FH " } *else { " " }
*if(acc_maracas) { "MA " } *else { " " }
*if(acc_sand_block) { "SA " } *else { " " }
*if(ped_string_bass) { "ST " } *else { " " }
*if(ped_kinura_8) { "PK " } *else { " " }

; if timp is on and timp reit is off, display TM else display blank.

*if(ped_timpani & !ped_timpani_reit) { "TM " } ;*else { " " }
*if(ped_timpani & ped_timpani_reit) { "TR " } ;*else { " " }
*if(!ped_timpani & ped_timpani_reit) { "TR " } ;*else { " " }
*if(!ped_timpani | !ped_timpani_reit) { " " } ;*else { " " }

; if timp is on and timp reit is on, display TR else display blank.
;*if(ped_timpani_reit) { "TR " } *else { " " }

*if(ped_bass_drum_roll) { "BR" } *else { " " }

```



```
*if(c16n53 & !c16n52) {
*line 4 "SET PISTON FUNCTION "
}
*if(!c16n53 & c16n52) {
*line 4 "MAP DISPLAY FUNCTION"
}
*if(c16n53 & c16n52) {
*line 4 " SET / MAP FUNCTION "
}
```

```
;xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
*combination_action
*set=set_button
*map=map_button
*memory_select=memory
*piston=accomp_cancel
*piston=solo_cancel
*piston=great_cancel
*piston=gen_cancel
*piston=gen_1
*piston=gen_2
*piston=gen_3
*piston=gen_4
*piston=gen_5
*piston=gen_6
*piston=gen_7
*piston=gen_8
*piston=gen_9
*piston=gen_10
*piston=gen_11
*piston=gen_12
*piston=gen_13
*piston=gen_14
*piston=gen_15
*piston=acc_pp
*piston=acc_p
*piston=acc_mf
*piston=acc_f
*piston=acc_ff
*piston=treams_on; was accomp #1
*piston=treams_off; was accomp #2
*piston=acc_3
*piston=acc_4
*piston=acc_5
*piston=acc_6
*piston=acc_7
*piston=acc_8
*piston=acc_9
*piston=acc_10
*piston=acc_11
*piston=acc_12
*piston=acc_13
;*piston=acc_14; now accomp cancel
;*piston=acc_15; now general cancel
*piston=great_pp
*piston=great_p
*piston=great_mf
*piston=great_f
*piston=great_ff
*piston=great_1
*piston=great_2
*piston=great_3
*piston=great_4
*piston=great_5
*piston=great_6
*piston=great_7
*piston=great_8
*piston=great_9
*piston=great_10
```

```

*piston=great_11
*piston=great_12
*piston=great_13
;*piston=great_14; now great cancel.
;*piston=great_15; now hauptw cancel.
*piston=solo_pp
*piston=solo_p
*piston=solo_mf
*piston=solo_f
*piston=solo_ff
*piston=solo_1
*piston=solo_2
*piston=solo_3
*piston=solo_4
*piston=solo_5
*piston=solo_6
*piston=solo_7
*piston=solo_8
*piston=solo_9
*piston=solo_10
*piston=solo_11
*piston=solo_12
*piston=solo_13
*piston=solo_14
;*piston=solo_15; now solo cancel
;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
;DUAL MAGNETIC STOPS
;
;SAMS DRIVER BOARD ONE
*dmt=ped_contra_dipahone_32 *on=mag1:1 *off=mag1:2 ; 1
*dmt=ped_contra_bourdon_32 *on=mag1:3 *off=mag1:4 ; 2
*dmt=ped_post_horn_16 *on=mag1:5 *off=mag1:6 ; 3
*dmt=ped_tuba_horn_16 *on=mag1:7 *off=mag1:8 ; 4
*dmt=ped_diaphone_16 *on=mag1:9 *off=mag1:10 ; 5
*dmt=ped_diaphonic_horn_16 *on=mag1:11 *off=mag1:12 ; 6
*dmt=ped_tibia_clausa_16 *on=mag1:13 *off=mag1:14 ; 7
*dmt=ped_violone_16 *on=mag1:15 *off=mag1:16 ; 8
*dmt=ped_oboe_horn_16 *on=mag1:17 *off=mag1:18 ; 9
*dmt=ped_bourdon_16 *on=mag1:19 *off=mag1:20 ; 10
*dmt=ped_post_horn_8 *on=mag1:21 *off=mag1:22 ; 11
*dmt=ped_acc_to_pedal *on=mag1:23 *off=mag1:24 ; 12
*dmt=ped_solo_to_pedal *on=mag1:25 *off=mag1:26 ; 13
*dmt=ped_tuba_horn_8 *on=mag1:27 *off=mag1:28 ; 14
*dmt=ped_open_diapason_8 *on=mag1:29 *off=mag1:30 ; 15
*dmt=ped_horn_diapason_8 *on=mag1:31 *off=mag1:32 ; 16
*dmt=ped_tibia_clausa_8 *on=mag1:33 *off=mag1:34 ; 17
*dmt=ped_tibia_pizzicato_8 *on=mag1:35 *off=mag1:36 ; 18
*dmt=ped_clarinet_8 *on=mag1:37 *off=mag1:38 ; 19
*dmt=ped_strings_8 *on=mag1:39 *off=mag1:40 ; 20
*dmt=ped_concert_flute_8 *on=mag1:41 *off=mag1:42 ; 21
*dmt=ped_piano_16 *on=mag1:43 *off=mag1:44 ; 22
*dmt=ped_piano_8 *on=mag1:45 *off=mag1:46 ; 23
*dmt=ped_bass_drum *on=mag1:47 *off=mag1:48 ; 24
*dmt=ped_cymbal *on=mag1:49 *off=mag1:50 ; 25
*dmt=acc_dolce_8 *on=mag1:51 *off=mag1:52 ; 26
*dmt=acc_open_diapason_4 *on=mag1:53 *off=mag1:54 ; 27
*dmt=acc_octave_horn_4 *on=mag1:55 *off=mag1:56 ; 28
*dmt=acc_tibia_clausa_m_4 *on=mag1:57 *off=mag1:58 ; 29
*dmt=acc_solo_string_4 *on=mag1:59 *off=mag1:60 ; 30
*dmt=acc_vdo_4 *on=mag1:61 *off=mag1:62 ; 31
*dmt=acc_salicional_4 *on=mag1:63 *off=mag1:64 ; 32
;
;SAMS DRIVER BOARD TWO
*dmt=acc_post_horn_8 *on=mag2:1 *off=mag2:2 ; 1
*dmt=acc_tuba_mirabilis_8 *on=mag2:3 *off=mag2:4 ; 2
*dmt=acc_brass_trumpet_8 *on=mag2:5 *off=mag2:6 ; 3
*dmt=acc_tuba_horn_8 *on=mag2:7 *off=mag2:8 ; 4
*dmt=acc_diaphone_8 *on=mag2:9 *off=mag2:10 ; 5
*dmt=acc_open_diapason_8 *on=mag2:11 *off=mag2:12 ; 6
*dmt=acc_horn_diapason_8 *on=mag2:13 *off=mag2:14 ; 7

```

```

*dmt=acc_tibia_clausa_m_8      *on=mag2:15      *off=mag2:16      ;      8
*dmt=acc_clarinet_8           *on=mag2:17      *off=mag2:18      ;      9
*dmt=acc_oboe_horn_8          *on=mag2:19      *off=mag2:20      ;     10
*dmt=acc_solo_string_8        *on=mag2:21      *off=mag2:22      ;     11
*dmt=acc_vdo_8                 *on=mag2:23      *off=mag2:24      ;     12
*dmt=acc_salicional_8         *on=mag2:25      *off=mag2:26      ;     13
*dmt=acc_quintadena_8         *on=mag2:27      *off=mag2:28      ;     14
*dmt=acc_lieblich_flute_8     *on=mag2:29      *off=mag2:30      ;     15
*dmt=acc_concert_flute_8      *on=mag2:31      *off=mag2:32      ;     16
*dmt=acc_vox_humana_s_8       *on=mag2:33      *off=mag2:34      ;     17
*dmt=acc_vox_humana_m_8       *on=mag2:35      *off=mag2:36      ;     18
*dmt=great_post_horn_16       *on=mag2:37      *off=mag2:38      ;     19
*dmt=great_tuba_mirabilis_16  *on=mag2:39      *off=mag2:40      ;     20
*dmt=great_brass_trumpet_16   *on=mag2:41      *off=mag2:42      ;     21
*dmt=acc_quintadena_4         *on=mag2:43      *off=mag2:44      ;     22
*dmt=acc_lieblich_flute_4     *on=mag2:45      *off=mag2:46      ;     23
*dmt=acc_concert_flute_4      *on=mag2:47      *off=mag2:48      ;     24
*dmt=acc_vox_humana_m_4       *on=mag2:49      *off=mag2:50      ;     25
*dmt=acc_dolce_4              *on=mag2:51      *off=mag2:52      ;     26
*dmt=acc_twelfth_223          *on=mag2:53      *off=mag2:54      ;     27
*dmt=acc_tibia_clausa_m_2     *on=mag2:55      *off=mag2:56      ;     28
*dmt=acc_piccolo_2            *on=mag2:57      *off=mag2:58      ;     29
*dmt=acc_piano_8              *on=mag2:59      *off=mag2:60      ;     30
*dmt=acc_marimba_8            *on=mag2:61      *off=mag2:62      ;     31
*dmt=acc_marimba_4            *on=mag2:63      *off=mag2:64      ;     32
;

```

;SAMS DRIVER BOARD THREE

```

*dmt=acc_chrysoglott          *on=mag3:1        *off=mag3:2        ;      1
*dmt=acc_orch_harp            *on=mag3:3        *off=mag3:4        ;      2
*dmt=acc_octave                *on=mag3:5        *off=mag3:6        ;      3
*dmt=acc_solo_to_accomp       *on=mag3:7        *off=mag3:8        ;      4
*dmt=great_vox_humana_s_8     *on=mag3:9        *off=mag3:10       ;      5
*dmt=great_vox_humana_m_8     *on=mag3:11       *off=mag3:12       ;      6
*dmt=great_tibia_quint_513    *on=mag3:13       *off=mag3:14       ;      7
*dmt=great_trumpet_d_16       *on=mag3:15       *off=mag3:16       ;      8
*dmt=great_tuba_horn_16       *on=mag3:17       *off=mag3:18       ;      9
*dmt=great_open_diapason_16   *on=mag3:19       *off=mag3:20       ;     10
*dmt=great_diaphonic_horn_16  *on=mag3:21       *off=mag3:22       ;     11
*dmt=great_tibia_clausa_s_16  *on=mag3:23       *off=mag3:24       ;     12
*dmt=great_tibia_clausa_m_16  *on=mag3:25       *off=mag3:26       ;     13
*dmt=great_clarinet_16        *on=mag3:27       *off=mag3:28       ;     14
*dmt=great_krumet_16          *on=mag3:29       *off=mag3:30       ;     15
*dmt=great_orch_oboe_16       *on=mag3:31       *off=mag3:32       ;     16
*dmt=great_musette_16         *on=mag3:33       *off=mag3:34       ;     17
*dmt=great_saxophone_16       *on=mag3:35       *off=mag3:36       ;     18
*dmt=great_solo_string_16     *on=mag3:37       *off=mag3:38       ;     19
*dmt=great_strings_16         *on=mag3:39       *off=mag3:40       ;     20
*dmt=great_oboe_horn_16       *on=mag3:41       *off=mag3:42       ;     21
*dmt=great_bourdon_16         *on=mag3:43       *off=mag3:44       ;     22
*dmt=great_vox_humana_s_16    *on=mag3:45       *off=mag3:46       ;     23
*dmt=great_vox_humana_m_16    *on=mag3:47       *off=mag3:48       ;     24
*dmt=great_post_horn_8        *on=mag3:49       *off=mag3:50       ;     25
*dmt=great_tuba_mirabilis_8   *on=mag3:51       *off=mag3:52       ;     26
*dmt=great_brass_trumpet_8    *on=mag3:53       *off=mag3:54       ;     27
*dmt=great_tuba_horn_8        *on=mag3:55       *off=mag3:56       ;     28
*dmt=great_trumpet_d_8        *on=mag3:57       *off=mag3:58       ;     29
*dmt=great_open_diapason_8    *on=mag3:59       *off=mag3:60       ;     30
*dmt=great_horn_diapason_8    *on=mag3:61       *off=mag3:62       ;     31
*dmt=great_tibia_clausa_s_8   *on=mag3:63       *off=mag3:64       ;     32
;

```

;SAMS DRIVER BOARD FOUR

```

*dmt=great_tibia_clausa_m_8   *on=mag4:1        *off=mag4:2        ;      1
*dmt=great_clarinet_8         *on=mag4:3        *off=mag4:4        ;      2
*dmt=great_krumet_8           *on=mag4:5        *off=mag4:6        ;      3
*dmt=great_orch_oboe_8        *on=mag4:7        *off=mag4:8        ;      4
*dmt=great_kinura_8           *on=mag4:9        *off=mag4:10       ;      5
*dmt=great_musette_8          *on=mag4:11       *off=mag4:12       ;      6
*dmt=great_saxophone_8        *on=mag4:13       *off=mag4:14       ;      7
*dmt=great_orchestral_strings_8 *on=mag4:15       *off=mag4:16       ;      8
*dmt=great_solo_string_8      *on=mag4:17       *off=mag4:18       ;      9
*dmt=great_vdo_8              *on=mag4:19       *off=mag4:20       ;     10

```

```

*dmt=great_salicional_8      *on=mag4:21      *off=mag4:22      ;      11
*dmt=great_spitz_flute_cel_8 *on=mag4:23      *off=mag4:24      ;      12
*dmt=great_oboe_horn_8      *on=mag4:25      *off=mag4:26      ;      13
*dmt=great_spitz_flute_8    *on=mag4:27      *off=mag4:28      ;      14
*dmt=great_quintadena_8     *on=mag4:29      *off=mag4:30      ;      15
*dmt=great_lieblich_flute_8 *on=mag4:31      *off=mag4:32      ;      16
*dmt=great_concert_flute_8  *on=mag4:33      *off=mag4:34      ;      17
*dmt=great_dolce_8         *on=mag4:35      *off=mag4:36      ;      18
*dmt=great_open_diapason_4  *on=mag4:37      *off=mag4:38      ;      19
*dmt=great_tibia_clausa_s_4 *on=mag4:39      *off=mag4:40      ;      20
*dmt=great_tibia_clausa_m_4 *on=mag4:41      *off=mag4:42      ;      21
*dmt=great_strings_IV_4     *on=mag4:43      *off=mag4:44      ;      22
*dmt=great_vdo_4           *on=mag4:45      *off=mag4:46      ;      23
*dmt=great_salicional_4     *on=mag4:47      *off=mag4:48      ;      24
*dmt=great_lieblich_flute_4 *on=mag4:49      *off=mag4:50      ;      25
*dmt=great_concert_flute_4  *on=mag4:51      *off=mag4:52      ;      26
*dmt=great_vox_humana_s_4   *on=mag4:53      *off=mag4:54      ;      27
*dmt=great_dolce_4         *on=mag4:55      *off=mag4:56      ;      28
*dmt=great_tibia_315       *on=mag4:57      *off=mag4:58      ;      29
*dmt=great_tibia_213       *on=mag4:59      *off=mag4:60      ;      30
*dmt=great_flute_twelfth_213 *on=mag4:61      *off=mag4:62      ;      31
*dmt=great_tibia_clausa_s_2 *on=mag4:63      *off=mag4:64      ;      32
*dmt=great_tibia_clausa_m_2 *on=mag4:65      *off=mag4:66      ;      33
*dmt=great_salicional_2     *on=mag4:67      *off=mag4:68      ;      34
*dmt=great_piccolo_2       *on=mag4:69      *off=mag4:70      ;      35
*dmt=great_tibia_clausa_135 *on=mag4:71      *off=mag4:72      ;      36
*dmt=great_fife_1         *on=mag4:73      *off=mag4:74      ;      37
*dmt=great_piano_16        *on=mag4:75      *off=mag4:76      ;      38
*dmt=great_piano_8         *on=mag4:77      *off=mag4:78      ;      39
*dmt=great_harp_wood_4     *on=mag4:79      *off=mag4:80      ;      40

```

;

;SAMS DRIVER BOARD FIVE

```

*dmt=great_xylophone_4      *on=mag5:1      *off=mag5:2      ;      1
*dmt=great_chrysoglott_4    *on=mag5:3      *off=mag5:4      ;      2
*dmt=great_glockenspiel_2   *on=mag5:5      *off=mag5:6      ;      3
*dmt=great_sub_octave_16    *on=mag5:7      *off=mag5:8      ;      4
*dmt=great_unison_off       *on=mag5:9      *off=mag5:10     ;      5
*dmt=great_octave          *on=mag5:11     *off=mag5:12     ;      6
*dmt=great_solo_sub_to_great *on=mag5:13     *off=mag5:14     ;      7
*dmt=great_solo_to_great    *on=mag5:15     *off=mag5:16     ;      8
*dmt=great_solo_to_great_pizz *on=mag5:17     *off=mag5:18     ;      9
*dmt=solo_post_horn_16     *on=mag5:19     *off=mag5:20     ;      10
*dmt=solo_post_horn_8      *on=mag5:21     *off=mag5:22     ;      11
*dmt=solo_tuba_mirabilis_8 *on=mag5:23     *off=mag5:24     ;      12
*dmt=solo_brass_trumpet_8  *on=mag5:25     *off=mag5:26     ;      13
*dmt=solo_trumpet_d_8      *on=mag5:27     *off=mag5:28     ;      14
*dmt=solo_tuba_horn_8      *on=mag5:29     *off=mag5:30     ;      15
*dmt=solo_diaphone_8       *on=mag5:31     *off=mag5:32     ;      16
*dmt=solo_open_diapason_8  *on=mag5:33     *off=mag5:34     ;      17
*dmt=solo_tibia_clausa_s_8  *on=mag5:35     *off=mag5:36     ;      18
*dmt=solo_tibia_clausa_m_8 *on=mag5:37     *off=mag5:38     ;      19
*dmt=solo_clarinet_8       *on=mag5:39     *off=mag5:40     ;      20
*dmt=solo_krumet_8         *on=mag5:41     *off=mag5:42     ;      21
*dmt=solo_orch_oboe_8      *on=mag5:43     *off=mag5:44     ;      22
*dmt=solo_kinura_8         *on=mag5:45     *off=mag5:46     ;      23
*dmt=solo_musette_8        *on=mag5:47     *off=mag5:48     ;      24
*dmt=solo_saxophone_8      *on=mag5:49     *off=mag5:50     ;      25
*dmt=solo_gambas_8         *on=mag5:51     *off=mag5:52     ;      26
*dmt=solo_strings_IV_8     *on=mag5:53     *off=mag5:54     ;      27
*dmt=solo_french_horn_8    *on=mag5:55     *off=mag5:56     ;      28
*dmt=great_melody_coupler  *on=mag5:57     *off=mag5:58     ;      29

```

;

;SAMS DRIVER BOARD SIX

```

*dmt=solo_oboe_horn_8      *on=mag6:1      *off=mag6:2      ;      1
*dmt=solo_lieblich_flute_8 *on=mag6:3      *off=mag6:4      ;      2
*dmt=solo_quintadena_8     *on=mag6:5      *off=mag6:6      ;      3
*dmt=solo_orchestral_flute_8 *on=mag6:7      *off=mag6:8      ;      4
*dmt=solo_vox_humana_s_8   *on=mag6:9      *off=mag6:10     ;      5
*dmt=solo_tibia_clausa_s_4 *on=mag6:11     *off=mag6:12     ;      6
*dmt=solo_tibia_clausa_m_4 *on=mag6:13     *off=mag6:14     ;      7
*dmt=solo_tibia_clausa_s_213 *on=mag6:15     *off=mag6:16     ;      8

```

*dmt=solo_tibia_clausa_s_2	*on=mag6:17	*off=mag6:18	; 9
*dmt=solo_tibia_clausa_s_135	*on=mag6:19	*off=mag6:20	; 10
*dmt=solo_tibia_clausa_s_113	*on=mag6:21	*off=mag6:22	; 11
*dmt=solo_tibia_clausa_s_1	*on=mag6:23	*off=mag6:24	; 12
*dmt=solo_piano_8	*on=mag6:25	*off=mag6:26	; 13
*dmt=solo_harp_wood_8	*on=mag6:27	*off=mag6:28	; 14
*dmt=solo_vibraphone	*on=mag6:29	*off=mag6:30	; 15
*dmt=solo_chrysoglott	*on=mag6:31	*off=mag6:32	; 16
*dmt=solo_orchestral_harp	*on=mag6:33	*off=mag6:34	; 17
*dmt=solo_chrysoglott_4	*on=mag6:35	*off=mag6:36	; 18
*dmt=solo_xylophone	*on=mag6:37	*off=mag6:38	; 19
*dmt=solo_orchbell	*on=mag6:39	*off=mag6:40	; 20
*dmt=solo_cathedral_chimes	*on=mag6:41	*off=mag6:42	; 21
*dmt=solo_sub_octave_16	*on=mag6:43	*off=mag6:44	; 22
*dmt=solo_unison_off	*on=mag6:45	*off=mag6:46	; 23
*dmt=solo_octave_4	*on=mag6:47	*off=mag6:48	; 24
*dmt=solo_super_octave_2	*on=mag6:49	*off=mag6:50	; 25
*dmt=solo_17th_135	*on=mag6:51	*off=mag6:52	; 26

;SAMS DRIVER BOARD SEVEN

*dmt=spare_1	*on=mag7:1	*off=mag7:2	; 1
*dmt=perc_unexp	*on=mag7:3	*off=mag7:4	; 2
*dmt=celestes_off	*on=mag7:5	*off=mag7:6	; 3
*dmt=gen_celestes	*on=mag7:7	*off=mag7:8	; 4
*dmt=lieb_off	*on=mag7:9	*off=mag7:10	; 5
*dmt=tib_minor_on	*on=mag7:11	*off=mag7:12	; 6
*dmt=acc2_posthorn_8	*on=mag7:13	*off=mag7:14	; 7
*dmt=acc2_brass_trumpet_8	*on=mag7:15	*off=mag7:16	; 8
*dmt=acc2_trumpet_d_8	*on=mag7:17	*off=mag7:18	; 9
*dmt=acc2_tuba_horn_8	*on=mag7:19	*off=mag7:20	; 10
*dmt=acc2_diaphone_8	*on=mag7:21	*off=mag7:22	; 11
*dmt=acc2_tibia_8	*on=mag7:23	*off=mag7:24	; 12
*dmt=acc2_clarinet_8	*on=mag7:25	*off=mag7:26	; 13
*dmt=acc2_tibia_4	*on=mag7:27	*off=mag7:28	; 14
*dmt=acc2_piano_8	*on=mag7:29	*off=mag7:30	; 15
*dmt=acc2_harp_8	*on=mag7:31	*off=mag7:32	; 16
*dmt=acc2_chrysoglott	*on=mag7:33	*off=mag7:34	; 17
*dmt=acc2_octave_glock	*on=mag7:35	*off=mag7:36	; 18
*dmt=acc2_solo_to_acc2_8	*on=mag7:37	*off=mag7:38	; 19
*dmt=acc2_grt_to_acc2_4	*on=mag7:39	*off=mag7:40	; 20
*dmt=acc2_traps_to_acc2	*on=mag7:41	*off=mag7:42	; 21
*dmt=grt2_solo_to_grt2_16	*on=mag7:43	*off=mag7:44	; 22
*dmt=grt2_solo_to_grt2_8	*on=mag7:45	*off=mag7:46	; 23
*dmt=grt_sostenuto	*on=mag7:47	*off=mag7:48	; 24
*dmt=grt_to_solo_8	*on=mag7:49	*off=mag7:50	; 25
*dmt=grt_to_solo_4	*on=mag7:51	*off=mag7:52	; 26

;SAMS DRIVER BOARD EIGHT

*dmt=ped_brush_cymbal	*on=mag8:1	*off=mag8:2	; 1
*dmt=ped_tap_cymbal	*on=mag8:3	*off=mag8:4	; 2
*dmt=ped_finger_cymbal	*on=mag8:5	*off=mag8:6	; 3
*dmt=ped_triangle	*on=mag8:7	*off=mag8:8	; 4
*dmt=ped_contra_violone_32	*on=mag8:9	*off=mag8:10	; 5
*dmt=ped_grt_to_pedal_8	*on=mag8:11	*off=mag8:12	; 6
*dmt=acc_snare_roll	*on=mag8:13	*off=mag8:14	; 7
*dmt=acc_snare_stick	*on=mag8:15	*off=mag8:16	; 8
*dmt=acc_cymbal	*on=mag8:17	*off=mag8:18	; 9
*dmt=acc_brush_cymbal	*on=mag8:19	*off=mag8:20	; 10
*dmt=acc_tap_cymbal	*on=mag8:21	*off=mag8:22	; 11
*dmt=acc_hihat_cymbal	*on=mag8:23	*off=mag8:24	; 12
*dmt=acc_tom_tom	*on=mag8:25	*off=mag8:26	; 13
*dmt=acc_cowbell	*on=mag8:27	*off=mag8:28	; 14
*dmt=acc_tambourine	*on=mag8:29	*off=mag8:30	; 15
*dmt=acc_castanets	*on=mag8:31	*off=mag8:32	; 16
*dmt=acc_chinese_block	*on=mag8:33	*off=mag8:34	; 17
*dmt=trems_main_1	*on=mag8:35	*off=mag8:36	; 18
*dmt=trems_solo_1	*on=mag8:37	*off=mag8:38	; 19
*dmt=trems_tibia_vox_sax	*on=mag8:39	*off=mag8:40	; 20
*dmt=trems_strings	*on=mag8:41	*off=mag8:42	; 21
*dmt=trems_clarinet	*on=mag8:43	*off=mag8:44	; 22

```

*dmt=trems_tuba_horn_trumpet_d *on=mag8:45          *off=mag8:46          ; 23
*dmt=trems_brass_trumpet      *on=mag8:47          *off=mag8:48          ; 24
*dmt=trems_tuba_mirabilis     *on=mag8:49          *off=mag8:50          ; 25
*dmt=trems_vibraphone_chrys   *on=mag8:51          *off=mag8:52          ; 26
*dmt=grt_dulciana_8           *on=mag8:53          *off=mag8:54          ; 27
;*dmt=                         *on=mag8:55          *off=mag8:56          ; 28
;*dmt=                         *on=mag8:57          *off=mag8:58          ; 29
;*dmt=                         *on=mag8:59          *off=mag8:60          ; 30
;*dmt=                         *on=mag8:61          *off=mag8:62          ; 31
;*dmt=                         *on=mag8:63          *off=mag8:64          ; 32
;*dmt=                         *on=mag8:65          *off=mag8:66          ; 33
;*dmt=                         *on=mag8:67          *off=mag8:68          ; 34
;*dmt=                         *on=mag8:69          *off=mag8:70          ; 35
;*dmt=                         *on=mag8:71          *off=mag8:72          ; 36
;*dmt=                         *on=mag8:73          *off=mag8:74          ; 37
;*dmt=                         *on=mag8:75          *off=mag8:76          ; 38

*end

```