

Digitrax Function Remapping

The CV values that are permitted for function remapping are limited to 8 bits, a maximum value of 255. Therefore only 8 functions can be mapped to each function key. Digitrax uses CV33-CV46 to handle remapping according to published standards.

Throttle Function Key	Map CV	Factory Setting DEC/HEX	Function Lead Color (Number)								9	10	11	12				
			Wht 0	Yel 0	Grn 1	Vio 2	Brn 3	Wht/Yel 4	Wht Grn 5	Wht/Blu 6								
F0F	CV33	001/x001	1	2	4	8	16	32	64	128								
F0R	CV34	002/x002	1	2	4	8	16	32	64	128								
F1	CV35	004/x004	1	2	4	8	16	32	64	128								
F2	CV36	008/x008	1	2	4	8	16	32	64	128								
F3	CV37	016/x10	1	2	4	8	16	32	64	128								
F4	CV38	004/x004	values not assignable for leads in these columns				1	2	4	8					16	32	64	128
F5	CV39	008/x008					1	2	4	8					16	32	64	128
F6	CV40	016/x10					1	2	4	8					16	32	64	128
F7	CV41	032/x20					1	2	4	8					16	32	64	128
F8	CV42	064/x40					1	2	4	8					16	32	64	128
F9	CV43	016/x10					1	2	4	8					16	32	64	128
F10	CV44	032/x20	1	2	4	8	16	32	64	128								
F11	CV45	064/x40	1	2	4	8	16	32	64	128								
F12	CV46	128/x80	1	2	4	8	16	32	64	128								

Function remapping is easy! Just follow these simple steps

1. Locate the row for the Throttle Function Key that you want to use.
2. Locate the column of the Function Lead Color (number) you want to control.
3. Note the value at the intersection of the row and column.
4. Program that value into the the CV listed next to the Throttle Function Key.

Example 1. Single Function Remapping

You want to Control a whistle with the Throttle Function F2 key which will blow the whistle for as long as you hold the key down. The sound board that creates the whistle is wired to the Brown lead (function output 3).

1. Locate the row for the Throttle Function Key F2 you want to use.
2. Locate the column of the Function Lead Color (function output number) you want to control, Brown (3).
3. Note the value, 16, at the intersection of the row and column (Yellow box with red outline in chart).
4. Enter this value, 16, into the the CV listed next to the Throttle Function Key, CV36.
5. The Throttle Function Key will now control the item connected to the Brown function lead.

Example 2. Multiple Function Remapping

You want to control two lights with a single Throttle Function Key. The lights are cab lights and running lights that only come on at night. One light is wired to the Brown (3) lead and one is wired to the White/Yellow (4) lead. You want to use Throttle Function Key 8 to control these lights.

1. Find row for Throttle Function Key F8 and follow it across to the column for the Brown lead and note the value, 2. Continue to the White Yellow column and note the value, 4.(Green boxes in chart)
2. Since you want both function leads to work at the same time, add the two values together, 2+4=6.
3. Enter this value, 6, into the the CV listed next to the Throttle Function Key F8, CV42.
4. The functions connected to Brown and the White/Yellow leads will now turn on and off with Throttle Function Key 2.