

CT SL51-4 Extended Function Mapping

Example Mapping

	Output	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0				
	Notes																							
		Guard's Whistle / Announcement	Drain cocks / Injector	Ventilator / Truck squeal	Cylinder release / Coach rattle	Water filling / Wheel flange	Coal shovelling / Coupling	Long whistle / Whistle 4	Short whistle / Whistle 3				Not used	Not used	Not used	Not used	Smoke	Firebox glow	Lamps (rear)	Lamps (front)				
Function Key	CV	Aux Sound 8	Aux Sound 7	Aux Sound 6	Aux Sound 5	Aux Sound 4	Aux Sound 3	Aux Sound 2	Aux Sound 1	Alternate Sounds	Main Sounds	Shunting Mode	Output 7 (solder pad)	Output 6 (solder pad)	Output 5 (solder pad)	Output 4 (solder pad)	Output 3 (purple)	Output 2 (green)	Output 1 (yellow)	Output 0 (white)	Function key	Programmed Action	CV	CV Value
F0 (fwd)	CV33												128	64	32	16	8	4	2	1	F0 (fwd)	Lamps (front)	CV33	1
	CV163				128	64	32	16	8	4	2	1											CV163	0
F0 (rev)	CV34												128	64	32	16	8	4	2	1	F0 (rev)	Lamps (rear)	CV34	2
	CV164				128	64	32	16	8	4	2	1											CV164	0
F1	CV35												128	64	32	16	8	4	2	1	F1	Main running sounds on/off	CV35	0
	CV165				128	64	32	16	8	4	2	1											CV165	2
F2	CV36												128	64	32	16	8	4	2	1	F2	Alternate Sounds (switch between sounds 1-8 and 9-16)	CV36	0
	CV166				128	64	32	16	8	4	2	1											CV166	4
F3	CV37												128	64	32	16	8	4	2	1	F3	Firebox glow	CV37	4
	CV167				128	64	32	16	8	4	2	1											CV167	0
F4	CV38									128	64	32	16	8	4	2	1				F4	Smoke	CV38	1
	CV168	128	64	32	16	8	4	2	1														CV168	0
F5	CV39									128	64	32	16	8	4	2	1				F5	Sound 1 (Short whistle) / Sound 9 (Alt - Whistle 3)	CV39	0
	CV169	128	64	32	16	8	4	2	1														CV169	1
F6	CV40									128	64	32	16	8	4	2	1				F6	Sound 2 (Long whistle) / Sound 10 (Alt - Whistle 4)	CV40	0
	CV170	128	64	32	16	8	4	2	1														CV170	2
F7	CV41									128	64	32	16	8	4	2	1				F7	Sound 3 (Coal shovelling) / Sound 11 (Alt - Coupling)	CV41	0
	CV171	128	64	32	16	8	4	2	1														CV171	4
F8	CV42									128	64	32	16	8	4	2	1				F8	Sound 4 (Water filling) / Sound 12 (Alt - Wheel flange)	CV42	0
	CV172	128	64	32	16	8	4	2	1														CV172	8
F9	CV43									128	64	32	16	8	4	2	1				F9	Sound 5 (Cylinder release) / Sound 13 (Alt - Coach rattle)	CV43	0
	CV173	16	8	4	2	1																	CV173	2
F10	CV44									128	64	32	16	8	4	2	1				F10	Sound 6 (Ventilator) / Sound 14 (Alt - Truck squeal)	CV44	0
	CV174	16	8	4	2	1																	CV174	4
F11	CV45									128	64	32	16	8	4	2	1				F11	Sound 7 (Drain cocks) / Sound 15 (Alt - Injector)	CV45	0
	CV175	16	8	4	2	1																	CV175	8
F12	CV46									128	64	32	16	8	4	2	1				F12	Sound 8 (Guard's Whistle) / Sound 16 (Alt - Announcement)	CV46	0
	CV176	16	8	4	2	1																	CV176	16

Each function key may control multiple outputs, although there is some restriction on which function keys can access which outputs as can be seen where the matrix entry is blank. There are 2 CVs relating to each function key to define the key's action. Add the values shown in the corresponding cells to get the function mapping you want.

Example: if you want F5 to operate Sound 3 and also to switch on Function Output 3, you should set CV39=1 and CV169=4.

Note that if you map a function key to the 'Alt' action, this means that while that function is activated, any sounds played will be from the alternate set of sounds (sounds 9-16) instead of the first set (sounds 1-8).