



Southern O1



F key	Function	Volume CV CV31=16, CV32=1
F0	Lights on if fitted (direction dependent)	
F1	Sound on: chuffs1 & chuffs2 (2-channel) // hiss and blower	259 & 267 // 491
F2	Whistle playable ***	283
F3	Whistle short **	275
	Limit between low and high speed whistle (30 to 230, def. 111)	279 (speed)
F4	In normal mode: Brake1 (CV 179) and brake valve sounds. In shunting mode (F17): Brake2 (CV 180) and brake valve sound ***	291
F5	Open draincocks	299
F6	Whistle fancy	307
F7	Coach doors + Guard // Flange squeal (stationary / moving)	315 // 355
F8	Buffer clashing (loose coupled cars)	323
F9	Forced coasting sound	
F10	Coal shovelling & firebox flicker Aux1	331
	Output for flicker (Aux 1 = value 1, Aux 2 = 2, Aux 1&2 = 12)	335 (value for Aux)
F11	Injector	339
F12	Big ejector	347
F13	Coupler sound	499
F14	Distant whistle w. echo	363
F15	Safety valve	371
F16	Water fill (only when stationary)	379
F17	Shunting / light engine mode, engages: lower speed (CV 101), faster acc/dec (CV 103), small additional brake3 force (CV 181), Automatic coasting (delay = CV 163, max speed = CV 164)	
F18	Vacuum destroy sound *	483
F19	Volume control (short press alters CV 63 by 32)	
F20	Aux 3 (Seuthe smoker)	
F21	Momentum off	
F22	No brake squeal	
F23	Sound fader (min vol = CV 133, fade time = CV 135)	
F24	Forced heavy chuffs and slower acc/dec (CV 104)	
F25	Aux 5	
F26	Reserved	
F27	Light dimming if fitted	
Other	Valve when closing throttle at higher speed Min speed (100 – 250) for valve sound	467 471 (speed)
Brake	Brake squeal sound	CV32=2 259
Brake	Brake-on speed: CV 64 Brake-off speed: CV 65	

****** Different whistles when stationary or while driving or direction dependent.
Very short whistle when in shunting mode (F17 on).

******* Swap F2 & F4: set (in exactly this order):
CV31 = 16, CV32 = 3, CV386 = 16, CV418 = 1, CV434 = 1
Swap back:
CV31 = 16, CV32 = 3, CV386 = 1, CV418 = 16, CV434 = 16