



## Black5 Worn Version on ESU

F key	Function	Volume CV
		<b>CV31=16, CV32=1</b>
<b>F0</b>	Lights on if fitted (direction dependent)	
<b>F1</b>	Sound on: chuffs1 & chuffs2 (2-channel) // hiss and blower	259 & 267 // 491
<b>F2</b>	Hooter variable length ***	283
<b>F3</b>	Hooter short	275
<b>F4</b>	In normal mode: Brake1 (CV 179) and brake valve sounds. In shunting mode (F17): Brake2 (CV 180) and brake valve sound ***	291
<b>F5</b>	Open draincocks	299
<b>F6</b>	Hooter fancy	307
<b>F7</b>	Guard // Flange squeal (stationary / moving)	315 // 355
<b>F8</b>	Buffer clashing (loose coupled cars)	323
<b>F9</b>	Forced coasting sound	
<b>F10</b>	Coal shovelling & firebox flicker Aux1	331
<b>F11</b>	Injector	339
<b>F12</b>	Coach doors (only when stationary)	347
<b>F13</b>	Coupler sound	499
<b>F14</b>	Hooter long (overdone)	363
<b>F15</b>	Safety valve	371
<b>F16</b>	Water fill (only when stationary)	379
<b>F17</b>	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)	
<b>F18</b>	Vacuum destroy sound **	483
<b>F19</b>	Volume control (short press alters CV 63 by 32)	
<b>F20</b>	Aux 2 (Seuthe smoker)	
<b>F21</b>	Momentum off	
<b>F22</b>	No brake squeal	
<b>F23</b>	Sound fader (min vol = CV 133, fade time = CV 135)	
<b>F24</b>	Forced heavy chuffs and slower acc/dec (CV 104)	
<b>F25</b>	Aux 5	
<b>F26</b>	Reserved	
<b>F27</b>	Light dimming if fitted	
<b>F28</b>	Reserved	
<b>Brake</b>	Brake squeal sound	<b>CV32=2</b> 259
<b>Brake</b>	Brake-on speed: CV 64 Brake-off speed: CV 65	

\*\* CV170 = 0 → NO automatic vacuum destroy sound after stopping  
CV170 = 1 → automatic vacuum destroy sound after stopping (except when in shunting mode)

\*\*\* 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