

Mat '64



Prototype:

The NS Mat '64 or Materieel '64 electric multiple units were built by Werkspoor and later by Düwag and Waggonfabrik Talbot between 1961 and 1976. They are operated, in decreasing numbers, in the Netherlands by the Nederlandse Spoorwegen (NS). The class is actually called Plan T and Plan V: the Plan T is a 4-car EMU and the Plan V is a 2-car EMU.

Source Wikipedia

function	arrangement	function output	sound-function
F0	Light on/off	white light driver's cab 1(FA0v) on forward driving, white light driver's cab 2(FA0r) on reversing	
F1	Sound on/off		
F2			high horn
F3			low horn
F4			conductor's whistle
F5			compressor
F6	half speed- and deactivating momentum button		
F7		FA1, railcar interior light	
F8			door opening and door closing
F9			
F10			
F11			
F12			
F13			
F14	mute on/off		

random effect	sound
Z1	compressor

Modified CVs

CV# 1 = 3	CV# 108 = 52	CV# 295 = 1	CV# 328 = 0
CV# 2 = 4	CV# 112 = 64	CV# 296 = 255	CV# 329 = 0
CV# 4 = 10	CV# 124 = 35	CV# 297 = 55	CV# 330 = 0
CV# 5 = 140	CV# 136 = 24	CV# 298 = 50	CV# 331 = 0
CV# 9 = 95	CV# 144 = 128	CV# 299 = 240	CV# 332 = 0
CV# 13 = 1	CV# 148 = 1	CV# 310 = 1	CV# 333 = 0
CV# 29 = 14	CV# 155 = 6	CV# 311 = 0	CV# 334 = 0
CV# 35 = 0	CV# 156 = 6	CV# 312 = 0	CV# 335 = 0
CV# 36 = 0	CV# 158 = 68	CV# 313 = 114	CV# 336 = 0
CV# 37 = 0	CV# 254 = 46	CV# 314 = 0	CV# 337 = 0
CV# 38 = 0	CV# 266 = 54	CV# 315 = 0	CV# 338 = 0
CV# 39 = 0	CV# 273 = 10	CV# 316 = 0	CV# 344 = 40
CV# 40 = 0	CV# 274 = 0	CV# 317 = 0	CV# 351 = 0
CV# 42 = 0	CV# 275 = 50	CV# 318 = 0	CV# 352 = 0
CV# 43 = 0	CV# 276 = 50	CV# 319 = 0	CV# 357 = 60
CV# 44 = 0	CV# 283 = 50	CV# 320 = 0	CV# 358 = 10
CV# 45 = 0	CV# 286 = 50	CV# 321 = 0	CV# 361 = 25
CV# 46 = 0	CV# 287 = 100	CV# 322 = 0	CV# 363 = 0
CV# 56 = 33	CV# 288 = 30	CV# 323 = 0	CV# 372 = 200
CV# 61 = 97	CV# 290 = 100	CV# 324 = 0	CV# 373 = 40
CV# 105 = 161	CV# 292 = 60	CV# 325 = 0	
CV# 106 = 1	CV# 293 = 160	CV# 326 = 0	
CV# 107 = 83	CV# 294 = 255	CV# 327 = 0	