

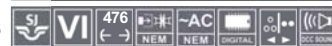


## SET DI DUE LOCOMOTIVE ELETTRICHE “TRANSMONTANA”

69209



65209s



### Motorized Loco

F-keys	Funzione / Function	F. Uscite / F. Out-	Direzione /	Suono / Sound	NOTE
F0	Luci di testa / Headlights	FO0fwd / FO0bwd	fwd / bkw	-	Seguono il senso di marcia Lights changing with direction
F1	Luci rosse di coda Red tail lights	FO2fwd / FO1bwd	fwd / bkw	-	Seguono il senso di marcia / Lights changing with direction
F2				Tromba mix corta / Horn mix short	Script
F3				Tromba suono alto / Horn high loop	Script
F4				Tromba suono grave / Horn low loop	Script
F5				Fischio capotreno Conductor whistle	Script
F6	Velocità e luci di manovra Shunting speed + lights	FO0fwd + FO0bwd	fwd + bkw	-	Luci bianche su entrambe le testate. Luci rosse si spengono automaticamente. / All white lights on. Red lights off automatically.
F7				Stridio curve / Curve squeal	
F8				Sound on / off	
F9				Mute on / off	
F10				-	
F11	Velocità ventola / Fan mx			Ventola / Fan	
F12				Aggancio - Sgancio Coupling - uncoupling	
F13				Funzione locomotiva singola Single driving key	
F14	Terzo faro / Third light	FO3	fwd / bkw	-	
F15	Luce in cabina / Cab light	FO4	fwd / bkw	-	
F16	Luce banco di manovra Dashboard light	FO6	fwd / bkw	-	
F17	Luce carrelli / Bogie lights	FO5	fwd + bkw	-	
F18				Compressore ausiliario / Auxiliary	
F19				Freno di stazionamento / Stationary	Script
F20				Comunicazioni radio in svedese Swedish Radio intercom	Script
F21				Scarico aria / Air drain	
F22				Freno di emergenza / Emergency	Script
F23				Trombe mix lungo / Horn mix long	Script
F24				Chiusura porta motocomp. Motor comp. door close	Script
F25				Porta interna aperta-chiusa Inner door open - close	Script
F26				Sabbia / Sand	
F27				Volume +	
F28				Volume -	free

#### F13 Funzionamento locomotive separate

**Quando non attivo (loco in doppia):** alcune funzioni sono attive solo direzionalmente su entrambi i modelli. I fari tra le locomotive sono spenti. (entrambi i modelli devono muoversi nella stessa direzione!), F2, F3, F4, F5, F20, F23, F24, F25 sono direzionali solo in avanti con la loco motorizzata, gli stessi tasti funzionano solo con la loco dummy. **Quando attivo (loco separate):** tutte le funzioni luminose e sonore sul modello motore funzionano in modo bidirezionale, le luci sul modello dummy sono spente, i suoni dello script sono disattivati, F5, F24, F25 funzionano solo finché il suono è attivo.

### Dummy Loco

F-keys	Funzione / Function	F. Uscite / F. Out-	Direzione /	Suono / Sound	NOTE
F0	Luci di testa / Headlights	FO0fwd / FO0bwd	bkw	-	Seguono il senso di marcia Lights changing with direction
F1	Luci rosse di coda Red tail lights	FO2fwd / FO1bwd	bkw	-	Seguono il senso di marcia Lights changing with direction
F2				Tromba mix corta / Horn mix short	Script bkw only
F3				Tromba suono alto / Horn high loop	Script bkw only
F4				Tromba suono grave / Horn low loop	Script bkw only
F5				Fischio capotreno Conductor whistle	Bkw only
F6	Velocità e luci di manovra Shunting speed + lights	FO0fwd + FO0bwd	fwd + bkw	-	Luci bianche su entrambe le testate. Luci rosse si spengono automaticamente. / All white lights on. Red lights off automatically.
F7				Stridio curve / Curve squeal	
F8				Sound on / off	
F9				Mute on / off	
F10				-	
F11	Velocità ventola / Fan mx			Ventola / Fan	Coasting step 2
F12				Aggancio - Sgancio Coupling - uncoupling	
F13				Funzione locomotiva singola Single driving key	Vedi nota in basso See note below
F14	Terzo faro / Third light	FO3	bkw	-	direzionale / directional
F15	Luce in cabina / Cab light	FO4	fwd / bkw	-	direzionale / directional
F16	Luce banco di manovra Dashboard light	FO6	fwd / bkw	-	direzionale / directional
F17	Luce carrelli / Bogie lights	FO5	fwd + bkw	-	
F18				Compressore ausiliario / Auxiliary	
F19				Freno di stazionamento / Stationary	Script
F20				Comunicazioni radio in svedese Swedish Radio intercom	Script bkw only
F21				Scarico aria / Air drain	
F22				Freno di emergenza / Emergency	Script
F23				Trombe mix lungo / Horn mix long	Script bkw only
F24				Chiusura porta motocomp. Motor comp. door close	Script
F25				Porta interna aperta-chiusa Inner door open - close	Script
F26				Sabbia / Sand	
F27				Volume +	
F28				Volume -	free

#### F13 Single driving key

**When not active:** several functions work only directional on both models. The lights are suppressed in between (both models need to drive in the same direction!), F2, F3, F4, F5, F20, F23, F24, F25 are directional only fwd with the motor model, same keys only work with the dummy model. **When active:** all light and sound functions on motor model work bi-directional, lights on the dummy model are turned off, Script sounds are off, F5, F24, F25 only work as long as Sound is on.

## Motorized Loco

CV# 1 = 3 Loco address	CV# 454 = 16 ZIMO Mapping 5 F-key
CV# 2 = 4 Start voltage (minimum speed)	CV# 455 = 96 ZIMO Mapping 5 M-key
CV# 3 = 18 Acceleration rate	CV# 456 = 102 ZIMO Mapping 5 A1 forw.
CV# 4 = 16 Deceleration rate	CV# 458 = 102 ZIMO Mapping 5 A1 rev.
CV# 5 = 200 Top speed	CV# 460 = 17 ZIMO Mapping 6 F-key
CV# 6 = 60 Medium speed	CV# 461 = 96 ZIMO Mapping 6 M-key
CV# 9 = 58 Motor control frequency	CV# 462 = 133 ZIMO Mapping 6 A1 forw.
CV# 13 = 129 Analog functions F1-F8	CV# 464 = 133 ZIMO Mapping 6 A1 rev.
CV# 28 = 3 RailCom Configuration	CV# 466 = 6 ZIMO Mapping 7 F-key
CV# 29 = 14 DCC configuration (binary)	CV# 467 = 29 ZIMO Mapping 7 M-key
CV# 56 = 0 Motor regulation: PID	CV# 468 = 14 ZIMO Mapping 7 A1 forw.
CV# 57 = 160 Motor regulation: voltage reference	CV# 469 = 15 ZIMO Mapping 7 A2 forw.
CV# 105 = 145 User Data 1	CV# 470 = 14 ZIMO Mapping 7 A1 rev.
CV# 111 = 10 Emergency stop deceleration rate	CV# 471 = 15 ZIMO Mapping 7 A2 rev.
CV# 125 = 88 Effects F0 front	CV# 472 = 6 ZIMO Mapping 8 F-key
CV# 126 = 88 Effects F0 rear	CV# 473 = 1 ZIMO Mapping 8 M-key
CV# 127 = 88 Effects F1	CV# 474 = 194 ZIMO Mapping 8 A1 forw.
CV# 128 = 88 Effects F2	CV# 476 = 193 ZIMO Mapping 8 A1 rev.
CV# 129 = 88 Effects F3	CV# 478 = 13 ZIMO Mapping 9 F-key
CV# 147 = 100 Motor regulation: minimum timeout	CV# 479 = 253 ZIMO Mapping 9 M-key
CV# 148 = 100 Motor regulation: D-Value	CV# 482 = 15 ZIMO Mapping 9 A1 rev.
CV# 149 = 150 Motor regulation: fixed P-Value	CV# 484 = 13 ZIMO Mapping 10 F-key
CV# 155 = 6 Half-speed key	CV# 485 = 225 ZIMO Mapping 10 M-key
CV# 156 = 6 Shunting key accel./decel.	CV# 486 = 2 ZIMO Mapping 10 A1 forw.
CV# 190 = 12 Up-dimming time for FO	CV# 490 = 13 ZIMO Mapping 11 F-key
CV# 191 = 8 Down-dimming time for FO	CV# 491 = 238 ZIMO Mapping 11 M-key
CV# 254 = 213 Project-ID	CV# 494 = 35 ZIMO Mapping 11 A1 rev.
CV# 256 = 1 n.a.	CV# 540 = 22 F10 soundnumber
CV# 273 = 15 Starting delay	CV# 541 = 64 F10 volume
CV# 287 = 25 Threshold for brake squeal	CV# 542 = 72 F10 information on loop
CV# 288 = 100 Brake squeal time spent driving	CV# 546 = 37 F12 soundnumber
CV# 290 = 0 Thyristor pitch at medium speed	CV# 547 = 91 F12 volume
CV# 291 = 0 Thyristor pitch at maximum speed	CV# 548 = 72 F12 information on loop
CV# 293 = 7 Thyristor volume at constant speed	CV# 564 = 39 F18 soundnumber
CV# 294 = 60 Thyristor volume during acceleration	CV# 565 = 23 F18 volume
CV# 295 = 50 Thyristor Volume at delay trip	CV# 566 = 8 F18 information on loop
CV# 296 = 160 Electromotor largest volume	CV# 575 = 31 soundnumber change of direc-
CV# 297 = 25 Electromotor: begin of audible noise	CV# 576 = 91 volume change of direction
CV# 298 = 60 Electromotor: begin of full volume	CV# 577 = 40 soundnumber squeal
CV# 307 = 128 cornering squeal inputs	CV# 578 = 128 volume squeal
CV# 308 = 7 cornering squeal key	CV# 585 = 4 Soundnumber electromotor
CV# 313 = 109 Mute button	CV# 603 = 36 cornering squeal sound number
CV# 314 = 40 Mute fade time	CV# 604 = 64 cornering squeal volume
CV# 315 = 100 Random Z1 min interval	CV# 676 = 43 F21 soundnumber
CV# 316 = 140 Random Z1 max interval	CV# 677 = 181 F21 volume
CV# 317 = 8 Random generator Z1 playback time	CV# 691 = 35 F26 soundnumber
CV# 374 = 11 Raising key	CV# 692 = 32 F26 volume
CV# 375 = 2 Raising step	CV# 693 = 72 F26 information on loop
CV# 394 = 128 ZIMO configuration 4 (binary)	CV# 744 = 22 Soundnumber Z1
CV# 396 = 28 Volume decrease key	CV# 745 = 64 Volume Z1
CV# 397 = 27 Volume increase key	CV# 746 = 8 Information on loop Z1
CV# 430 = 29 ZIMO Mapping 1 F-key	CV# 981 = 128
CV# 431 = 96 ZIMO Mapping 1 M-key	CV# 982 = 32
CV# 432 = 14 ZIMO Mapping 1 A1 forw.	CV# 983 = 91
CV# 436 = 1 ZIMO Mapping 2 F-key	CV# 985 = 91
CV# 437 = 96 ZIMO Mapping 2 M-key	CV# 986 = 32
CV# 440 = 1 ZIMO Mapping 2 A1 rev.	CV# 987 = 46
CV# 442 = 14 ZIMO Mapping 3 F-key	CV# 988 = 128
CV# 443 = 96 ZIMO Mapping 3 M-key	CV# 989 = 91
CV# 444 = 35 ZIMO Mapping 3 A1 forw.	CV# 991 = 181
CV# 448 = 15 ZIMO Mapping 4 F-key	CV# 992 = 181
CV# 449 = 96 ZIMO Mapping 4 M-key	CV# 993 = 181
CV# 450 = 68 ZIMO Mapping 4 A1 forw.	CV# 994 = 181
CV# 452 = 68 ZIMO Mapping 4 A1 rev.	

## Dummy Loco

CV# 1 = 4 Loco address	CV# 456 = 102 ZIMO Mapping 5 A1 forw.
CV# 2 = 4 Start voltage (minimum speed)	CV# 458 = 102 ZIMO Mapping 5 A1 rev.
CV# 3 = 18 Acceleration rate	CV# 460 = 17 ZIMO Mapping 6 F-key
CV# 4 = 16 Deceleration rate	CV# 461 = 96 ZIMO Mapping 6 M-key
CV# 5 = 200 Top speed	CV# 462 = 133 ZIMO Mapping 6 A1 forw.
CV# 6 = 60 Medium speed	CV# 464 = 133 ZIMO Mapping 6 A1 rev.
CV# 9 = 58 Motor control frequency	CV# 466 = 6 ZIMO Mapping 7 F-key
CV# 13 = 129 Analog functions F1-F8	CV# 467 = 29 ZIMO Mapping 7 M-key
CV# 19 = 3 Consist address low	CV# 468 = 14 ZIMO Mapping 7 A1 forw.
CV# 21 = 127 Consist function F1-F8	CV# 469 = 15 ZIMO Mapping 7 A2 forw.
CV# 22 = 191 Consist function F0, F9-F12	CV# 470 = 14 ZIMO Mapping 7 A1 rev.
CV# 28 = 3 RailCom Configuration	CV# 471 = 15 ZIMO Mapping 7 A2 rev.
CV# 29 = 14 DCC configuration (binary)	CV# 472 = 6 ZIMO Mapping 8 F-key
CV# 56 = 0 Motor regulation: PID	CV# 473 = 1 ZIMO Mapping 8 M-key
CV# 57 = 160 Motor regulation: voltage reference	CV# 478 = 13 ZIMO Mapping 9 F-key
CV# 105 = 145 User Data 1	CV# 479 = 157 ZIMO Mapping 9 M-key
CV# 111 = 10 Emergency stop deceleration rate	CV# 484 = 13 ZIMO Mapping 10 F-key
CV# 125 = 88 Effects F0 front	CV# 485 = 129 ZIMO Mapping 10 M-key
CV# 126 = 88 Effects F0 rear	CV# 490 = 13 ZIMO Mapping 11 F-key
CV# 127 = 88 Effects F1	CV# 491 = 142 ZIMO Mapping 11 M-key
CV# 128 = 88 Effects F2	CV# 496 = 13 ZIMO Mapping 12 F-key
CV# 129 = 88 Effects F3	CV# 497 = 143 ZIMO Mapping 12 M-key
CV# 147 = 100 Motor regulation: minimum timeout	CV# 502 = 13 ZIMO Mapping 13 F-key
CV# 148 = 100 Motor regulation: D-Value	CV# 503 = 144 ZIMO Mapping 13 M-key
CV# 149 = 150 Motor regulation: fixed P-Value	CV# 525 = 38 F5 soundnumber
CV# 155 = 6 Half-speed key	CV# 526 = 46 F5 volume
CV# 156 = 6 Shunting key accel./decel.	CV# 527 = 32 F5 information on loop
CV# 190 = 12 Up-dimming time for FO	CV# 540 = 22 F10 soundnumber
CV# 191 = 8 Down-dimming time for FO	CV# 541 = 64 F10 volume
CV# 254 = 214 Project-ID	CV# 542 = 72 F10 information on loop
CV# 256 = 1 n.a.	CV# 546 = 37 F12 soundnumber
CV# 273 = 15 Starting delay	CV# 547 = 91 F12 volume
CV# 287 = 25 Threshold for brake squeal	CV# 548 = 72 F12 information on loop
CV# 288 = 100 Brake squeal time spent driving	CV# 564 = 39 F18 soundnumber
CV# 290 = 0 Thyristor pitch at medium speed	CV# 565 = 23 F18 volume
CV# 291 = 0 Thyristor pitch at maximum speed	CV# 566 = 8 F18 information on loop
CV# 293 = 7 Thyristor volume at constant speed	CV# 575 = 31 soundnumber change of direction
CV# 294 = 60 Thyristor volume during acceleration	CV# 576 = 91 volume change of direction
CV# 295 = 50 Thyristor Volume at delay trip	CV# 577 = 40 soundnumber squeal
CV# 296 = 160 Electromotor largest volume	CV# 578 = 128 volume squeal
CV# 297 = 25 Electromotor: begin of audible noise	CV# 585 = 4 Soundnumber electromotor
CV# 298 = 60 Electromotor: begin of full volume	CV# 603 = 36 cornering squeal sound number
CV# 307 = 128 cornering squeal inputs	CV# 604 = 64 cornering squeal volume
CV# 308 = 7 cornering squeal key	CV# 676 = 43 F21 soundnumber
CV# 313 = 109 Mute button	CV# 677 = 181 F21 volume
CV# 314 = 40 Mute fade time	CV# 685 = 5 F24 soundnumber
CV# 315 = 100 Random Z1 min interval	CV# 686 = 128 F24 volume
CV# 316 = 140 Random Z1 max interval	CV# 687 = 40 F24 information on loop
CV# 317 = 8 Random generator Z1 playback time	CV# 688 = 12 F25 soundnumber
CV# 374 = 11 Raising key	CV# 689 = 91 F25 volume
CV# 375 = 2 Raising step	CV# 690 = 40 F25 information on loop
CV# 394 = 128 ZIMO configuration 4 (binary)	CV# 691 = 35 F26 soundnumber
CV# 396 = 28 Volume decrease key	CV# 692 = 32 F26 volume
CV# 397 = 27 Volume increase key	CV# 693 = 72 F26 information on loop
CV# 430 = 29 ZIMO Mapping 1 F-key	CV# 744 = 22 Soundnumber Z1
CV# 431 = 96 ZIMO Mapping 1 M-key	CV# 745 = 64 Volume Z1
CV# 434 = 15 ZIMO Mapping 1 A1 rev.	CV# 746 = 8 Information on loop Z1
CV# 436 = 1 ZIMO Mapping 2 F-key	CV# 800 = 13 ZIMO Mapping 14 F-key
CV# 437 = 96 ZIMO Mapping 2 M-key	CV# 801 = 145 ZIMO Mapping 14 M-key
CV# 438 = 2 ZIMO Mapping 2 A1 forw.	CV# 981 = 128
CV# 442 = 14 ZIMO Mapping 3 F-key	CV# 982 = 32
CV# 443 = 96 ZIMO Mapping 3 M-key	CV# 983 = 91
CV# 446 = 35 ZIMO Mapping 3 A1 rev.	CV# 985 = 91
CV# 448 = 15 ZIMO Mapping 4 F-key	CV# 986 = 32
CV# 449 = 96 ZIMO Mapping 4 M-key	CV# 991 = 181
CV# 450 = 68 ZIMO Mapping 4 A1 forw.	CV# 992 = 181
CV# 452 = 68 ZIMO Mapping 4 A1 rev.	CV# 993 = 181
CV# 454 = 16 ZIMO Mapping 5 F-key	CV# 994 = 181
CV# 455 = 96 ZIMO Mapping 5 M-key	

## Sound samples

4	Motor
5	Door open / close
12	Engine room door open / close
13	ATC signal
14	Emergency brake air
22	Compressor
23	SV-Radio_01_half-meter
24	SV-Radio_02_forward
25	SV-Radio_03_cartwheel
26	SV-Radio_04_good-stop
27	Horn high short
28	Horn high long
29	Horn low short
30	Horn low long
31	Changing direction
32	Parking brake on
33	Parking brake off
35	Sanding
36	Cornering squeal
37	Coupling
38	Conductor's whistle
39	Auxiliary compressor
40	Brake squeal
41	Horn both short
42	Horn both long
43	Air



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