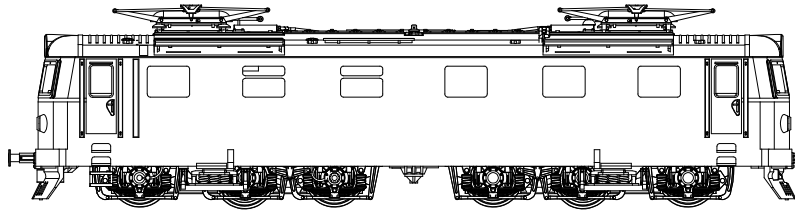


Model of electric locomotive type 181/182/183 (former E669.1-3)

H0 1:87



Locomotive type 181-183 was produced in Škoda factory in Pilsen during 1961-71 at three series, with small improved differences between. They was marked as E669.1 to E669.3 and used for heavy cargo trains on rail network of Czechoslovakia republic under 3kV supply. Totally produced 360pcs loco. This loco was used for development export type loco Cs2 for USSR railways.



Qty of locos was reduced in 90th years, but they are still in service for transport of cargo trains of ČD / ČD Cargo company. Many locos was sold to private train operators in Polish after year 2000, some of them also sold to czech private operator.

Parameters of model: length over buffers: 214mm, weight: 615g, Supply: 12VDC/ 0.5Amax, minimum curve radius: 380mm

Safety Instructions and Warranty

This model is made of plastic and metal parts and is only suitable for use by persons 14 years and older. It is comprised of small parts which present a choking hazard for small children. This product is an electronic device. Take all precautions to avoid electric shock. Power supply should not exceed a voltage output of 12 VDC with a maximum current output of 1 amp. Only a power supply that is in compliance with local regulations should be used. This model is only to be used in non-commercial applications. There is a warranty period of 1 year after the invoice date. Excluded from the warranty are misprints, paint errors and wearable parts such as friction tires, carbon brushes, etc. Damage caused by incorrect handling, incorrect maintenance, commercial use, utilization of a supply voltage in excess of 12 VDC, the use of violence, unlawful activity, overheating, incorrect transport and storage without the appropriate box is excluded from the warranty. A sales invoice from the original point of purchase must be supplied for any warranty claims.

Storage and Maintenance

Storage and transport should only be done in the original box. The model must be protected from intensive sunlight and temperatures above 30 degrees Celsius. Before using the model, it should run 15 minutes in both directions at different velocities in order to run in the components. Cleaning of the wheels and contact wipers should only be done with soft tissues wetted with alcohol or methyl alcohol. The model comes lubricated with high viscosity oil for long time storage. For lubrication of the axle and gears, only use resin free and acid free lubricants. To lubricate the bogie remove the bogie cover plates carefully, by pressing the plate end and lifting the plate downwards (see illustration 1). It is recommended before first usage to lubricate the worm gears with fine oil.

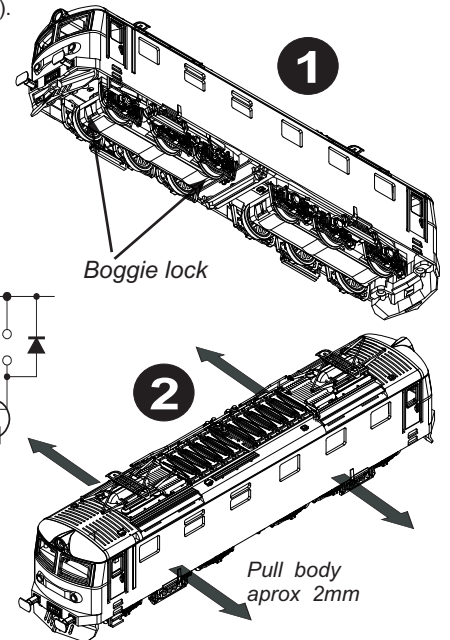
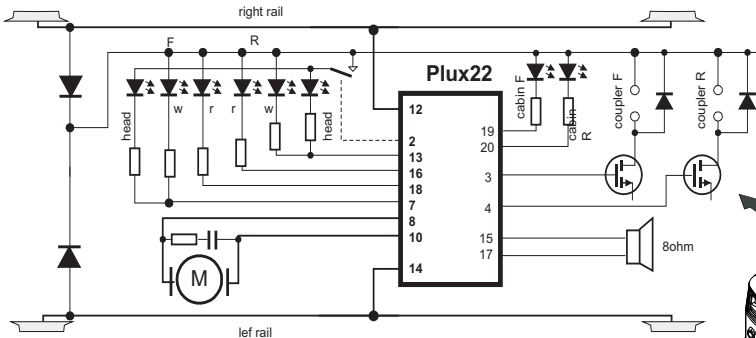
Installation of the Plux22 DCC Decoder

Remove body by pulling out 2 millimetres to release locks (pict 2). Work over soft table, to absorb falling of heavy weight zinc frame to avoid damage of gears! Mind the details on roof to avoid damage. Model use standardised connector Plux22 with analog bypass PCB. Remove bypass and insert DCC decoder. For sound decoder the connection point to repro are on PCB, see pict 6.

GPIO-C	1	2	AUX3 / main head light
GPIO-B/ coupler F	3	4	GPIO-A/ coupler R
GND	5	6	+V / n.c.
F0f / lights	7	8	motor1
+V / n.c.	9	10	motor2
		12	right rail
F0r/ lights	13	14	left rail
LSA/ repro1	15	16	AUX1-F0r/ red light R
LSB/ repro2	17	18	AUX2-F0f/ red light F
AUX4/cabin light FW	19	20	AUX5/cabin light R
AUX6-F6	21	22	AUX7-F7

forward F dir ← → rear R dir

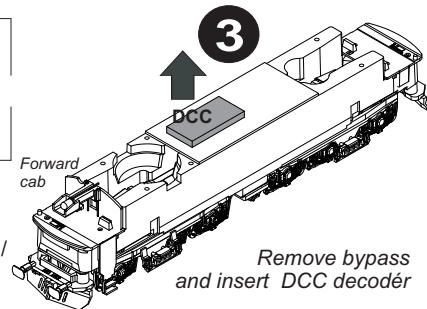
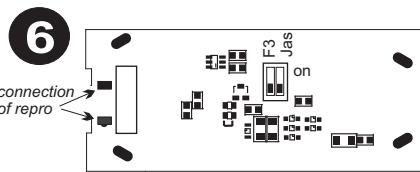
connection of pins Plux22, main PCB



Control of main head light and cabin light

DCC decoder can control head light by function F3. When switched standard light F0, then decoder can control on/off head light by F3 function. This can be configured by DIP switch, see pict 6.

Decoder DCC can also control switch on light in front/forward cabin for example in shunting mode.



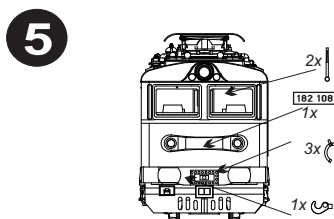
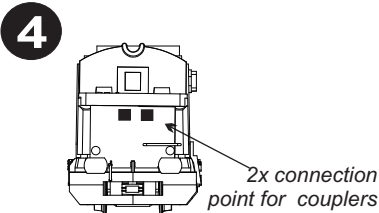
Electric control of couplers

Model is designed for electric controlled couplers, see pict 4. DCC decoder must support this function.

DIP Switch Functions

F3: On = permanently switched on frontal light / Off = control frontal lights with function F3

Jas: On = increased brightness frontal lights / Off = standard frontal brightness of light



Installation Accessories

The model is supplied with extra parts, which the user should assemble himself. Fig. 5 shows the location of the parts

Repair and Disposal

Contact your dealer for repair inquiries. During the warranty period, report problems to your dealer with a copy of the sales invoice. The dealer will confirm if the repair is eligible for warranty coverage. If a request for repair is not a warranty case or a sales invoice is not provided, shipping and repair costs will be charged to the end user. The model should not be disposed of casually, but as electronic waste.

Producer: MTB, Segala group s.r.o. Prague Czech Republic-EU



0508131115

www.mtb-model.com

H0182_partA_EN v1.0