## <u>Maintenance instructions for T80 inclined stair lifts</u> The work is to be carried out by qualified technical personnel only!

The following work may be carried out **<u>by qualified personnel only</u>**:

Installation Adjustments and settings **Maintenance work** Fault finding/rectification

Qualified personnel are persons who

- know how the machine works
- have received instruction on how it works
- have read and understood the operating, installation and service manuals
- are aware of the dangers posed by the machine (and also its components)
- know and understand the interrelationships between the mechanical components
- know and understand the interrelationships between the electrical components
- have the appropriate tools/measuring instruments and know how to use them
- have a sufficient understanding of the German or English language respectively

When carrying out any work on the machine, please note:

- Do not allow other persons to access the machine when there is an increased danger potential (covers removed, safety devices disabled etc.).
- Avoid the risk of tripping up due to the open machine, tools lying around, electrical cables etc.
- The potential dangers of the machine may not have been increased after conclusion of the work on the machine
- Parts of the machine that are not yet firmly connected to the building/running rail are to be secured against falling over



Original parts and accessories are specially designed for our platform lifts. We expressly draw your attention to the fact that parts and accessories not supplied by us have also not been tested and approved by us. The installation and/or use of such products can therefore, under certain circumstances, negatively affect the constructive specified characteristics of the lift and impair the active and/or passive travelling safety as a result. The manufacturer accepts no liability whatsoever for damage caused by the use of non-original parts and accessories.

## Tools / operating resources and auxiliary materials / measuring and testing devices

Torque wrench 110 Nm (10 to 24 mm) Spanner, open-ended/ring (7 / 8 / 10 / 13 / 14 / 17 / 30 / 40 mm) Hexagon keys (2 / 3 / 4 /5 / 6 mm) Taper pin punch (4 / 6 mm) Long nose pliers Side cutters Circlip pliers A01, A11 Phillips screwdriver (PH1, PH2) Flat blade screwdriver (1 x 6 mm / 0.6 x 4.5 mm)

Loctite 243 Cable drum Lamp Voltmeter (230 V AC / 30 V DC)

9V block battery (1x) 1.5 V AA battery (2x for each external control unit)

Lubricants:

OKS 469 NLGL 2 plastic and elastomer lubricant (- 40 °C to 150 °C) (further designation: S1) E-COLL NLGI 2 multi-purpose graphite grease II (- 30 °C to 120 °C) (further designation: S2) E-COLL NLGI 2 multi-purpose grease I, lithium soaped (- 30 °C to 120 °C) (further designation: S3) Fina Marson L2 (further designation: S4)

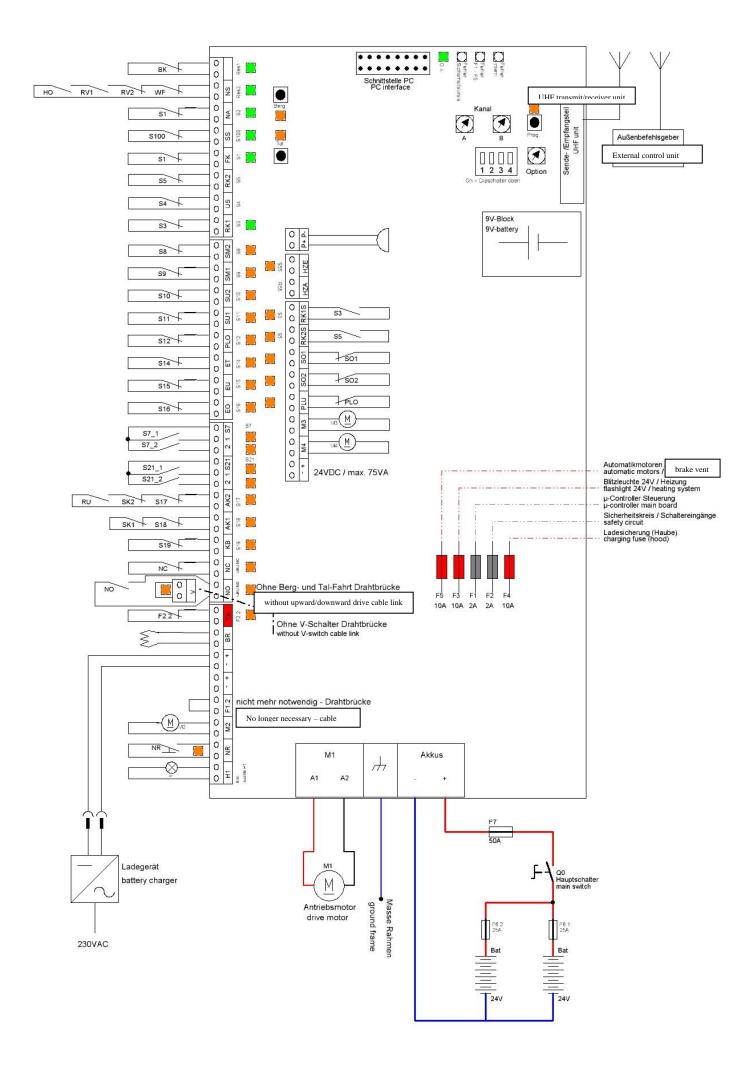
Wearing parts / parts that should be carried in case exchange is necessary: 6 V batteries (4 x) 12 V batteries (4 x) Roller lever switch (1x) Plunger switch (1x) Microswitch (2x interior area, 2x exterior area) Guide rollers incl. bearings (4x)

	Maintenance plan based on EN 13015		E Lift GmbH se 48, D-32657 Lemgo	L	ocation:
	Page 1 of 4	Designation of the lift: Inclined s	tair lift T80 (chair lift)	Se	erial no.:
Seq. no.	Work to be carried ou (by qualified technical		Measuring and testing devices, operating resources and auxiliary materials		Remarks
1.	Supports				If present
1.1	Check firm seating			Α	
1.2	Examine for corrosion, bro	eakages and deformations		Α	
2.	Running track				
2.1	Fastening				
2.1.1	Examine for corrosion, br	eakages and deformations		Α	
2.1.2	Check firm seating			Α	
2.2	Support steelwork: Examin	ne for corrosion, breakages and deformations		В	
2.3	Vertical rods: Examine for	$\cdot$ corrosion, breakages and deformations		В	
2.4	Traps				
2.4.1	Check function			Α	
2.4.2	Examine for corrosion, br	eakages and deformations		Α	
2.5	Limit switch curves				
2.5.1	Examine for corrosion			Α	
2.5.2	Check position, function a	nd firm seating		Α	
2.6	Unlocking curves			Α	If present
2.6.1	Examine for corrosion and	l breakages		Α	Replace plastic if necessary
2.6.2	Check position, function a	nd firm seating		Α	
2.9	Battery charging station				
2.9.1	Examine for breakages, de	formation, corrosion and wear		Α	
2.9.2	Check contact, function, a	djustment and fastening	Voltmeter	A	Voltage at the battery charging station must lie between 25.5 V and 29.5 V
2.10	Running track tube: Exam	ine for corrosion, breakages and deformations		В	

Maintenance plan based on EN 13015 Page 2 of 4			Manufacturer:LIPPE Lift GmbH Weststrasse 48, D-32657 LemgoDesignation of the lift:Inclined stair lift T80 (chair lift)		Location: Serial no.:	
		Designation of the lift: Inclined s				
Seq. no.	Work to be carried out (by qualified technical per	rsonnel only)	Measuring and testing devices, operating resources and auxiliary materials		Remarks	
3.	Lifting unit					
3.1	Roller set					
3.1.1	Examine for corrosion, breaka			Α		
3.1.2	Examine the fastening of the lo		A	Insert grubscrew with Loctite 243 (work very carefully!!)		
3.1.3	Check function, adjustment and	d play		Α		
3.1.4	Examine for noises, deformation	on, wear and dirt		Α		
3.2	Rotating drive					
3.2.1	Examine for corrosion, breaka		Α			
3.2.2	Check adjustment, arrester, firm seating, cotter pins, function and lubrication		Grease: Plastic guide: S1 Lugs/blocks (metal on metal): S2	A	Grease: for arrester bearing: S3	
3.2.3	Main drive chain (duplex)					
3.2.3.1	Check adjustment, play, lubric	ation/ re-tension via eccentric bush	Grease: S2			
3.3	Controller: Check firm seating			В		
3.3.1	Replace battery (for acoustic si	ignals)	9V block battery	А		
3.4	Barriers / armrests					
3.4.1	Check adjustment, function, pla	ay and lubrication (bearings and linkage).	Grease: S4	Α		
3.4.2	Check function and wear of the	e locking device		Α		
3.4.3	Examine for corrosion and dire	t		Α		
3.5	Contact base (carry out only w	ith the base folded up)				
3.5.1	Examine for deformation and dirt			Α		
3.5.2	Check function, fastening and	play		Α		
3.6	Interior controller					
3.6.1	Check function, fastening,			Α		
3.6.2	Examine for breakages and mi	ssing labelling		Α		
			Intervals:	A =	once per year $B = every 2$ years	

Maintenance plan based on EN 13015Manufacturer:Page 3 of 4Designation of the		Manufacturer:	Weststrasse 48, D-32657 Lemgo		Location:	
		Designation of the			erial no.:	
Seq. no.	Work to be carried out (by qualified technical		Measuring and testin devices, operating resources a auxiliary materials		Remarks	
3.7	Exterior controller					
3.7.1	Check function, fastening			А		
3.7.2	Examine for breakages and	d missing labelling		А		
3.7.3	Replace battery		2x 1.5 V AA	Α		
3.8	Motor: Check fastening			А		
3.9	All switches					
3.9.1	Examine for breakages, we	ear and dirt		A		
3.9.2	Check function, adjustmen	t, fastening and play		A		
3.10	Main switch					
3.10.1	Examine for breakages, we	ear and dirt		В		
3.10.2	Check function and fasteni	ing		A		
3.11	Worm gear: Examine for b	reakages and leaks		В		
3.12	Rear wall: Check fastening			В		
3.13	Batteries (6 V and/or 12 V	)				
3.13.1	Examine for corrosion and	l dirt		В		
3.13.2	Check firm seating, function	on and voltage	Voltmeter	A	The voltage of each individual battery: min. 6.3 V (12.3 V). Difference between the individual batteries max. 0.2 V (only replace complete blocks!)	
3.14	Battery charger					
3.14.1	Examine for breakages and	d dirt		А		
3.14.2	Check function and fasteni	ing		A		
			Interv	als: A	= once per year $B$ = every 2 years	

	Maintenance plan based on EN 13015	Manufacturer:	Manufacturer: LIPPE Lift GmbH Weststrasse 48, D-32657 Lemgo		Location:	
Page 4 of 4Designation of the lift: Inclined stair lift T80 (chair lift)			: Inclined stair lift T80 (chair lift)	Serial no.:		
Seq. no.	Work to be carried out (by qualified technical		Measuring and testing devices, operating resources and auxiliary materials		Remarks	
3.15	Charging circuit breaker					
3.15.1	Examine for breakages and	dirt		Α		
3.15.2	Check function and fastenin	18		A	Short-circuit test: Short-circuit the charging brushes on the lifting unit (activate the circuit breaker again afterwards)	
3.16	Charging brushes					
3.16.1	Examine for breakages, def	formation and wear		A		
3.16.2	Check function, adjustment	and fastening		A		
3.17	Folding seat / safety belt				If present	
3.17.1	Examine for breakages, tea	rs and deformation		A		
3.17.2	Check function and fastenin	ng		A		
3.18	Hand wheel: Check fastenin	ig and labelling		A		
3.19	Emergency call: Check fund	ction		A	Check batteries if present	
3.20	Changeover switch for drive	ing uphill/downhill			If present	
3.20.1	Check adjustment, function	and fastening		A		
3.21	Contact switch, underside o	f frame				
3.21.1	Check function, adjustment	and play		A		
3.22	Contact switch, top side hoo	bd				
3.22.1	Check function, adjustment	and play		A		
4.	Others					
4.1	Test drive: Check all function	ons and driving behaviour		A		
4.2	Labelling (stickers, warning	g notices etc.): complete		A	Possibly not supplemented at customer's request?	
			Intervals:	A	= once per year B $=$ every 2 years	



## Key to PCB

S15   EU   Endschalter Unten   Limit switch DOWN     S16   EO   Endschalter Oben   Limit switch UP     S7   S7 / 1 / 2   Schlüsselschalter am LAM   Key switch on carriage     S21   S21 / 1 / 2   Befehlsgeber am LAM   Control unit on carriage     S17   AK2   Auffahrklappe TAL   Switch for ramp (bottom station)     S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktbodenüberwachung (optional)   Contact base (series)     KBÜ   NC   Kontaktbodenüberwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     Y1   BS   Bremslüfter M1   Brake vent     1X20   + / -   Notladebuchse   Emergency battery charging socket     1X30   + / -   Ladegerät   Battery charger     F1.2   F1.2   Ladesicherung 6A   Charging circuit breaker 6A     M2   M2   Automatikmotor Boden(optional)   Automatic base motor (optional)     S55   HZE   Fühler Heizung   Temergency call switch (optional) <td< th=""><th>Mainboard</th><th>Connectors</th><th>Anschluß</th><th>Connection</th></td<>	Mainboard	Connectors	Anschluß	Connection
RES2     NS     Drahbrücke     Cable link       S2     NA     NOT-HALT     Emergency stop       S100     SS     Sicherheitsleisteloptional)     Switch for safety board (option)       S1     FK     Fangschalter     Switch for safety board (option)       S3     RK2     Riegelschalter TAL     Switch for locking (bottom station)       S4     US     Umgehungsschalter     By-pass-switch       S5     RK1     Riegelschalter BERG     Switch for barrier (bottom station)       S8     SM2     Schranke TAL Unten     Switch for barrier (bottom station) down       S11     SU2     Schranke BERG Unten     Switch for barrier (top station) down       S12     PLO     Platformboden Oben     Platform botor switch, floor up (optional)       S14     ET     Etgenschalter     Switch for intermediate station (optional)       S15     EU     Endschalter Oben     Limit switch DOWN       S16     EO     Endschalter am LAM     Key switch on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     A	DEQ1	DES1	Drabtbrücke	Cable link
S2 NA NOT-HALT Emergency stop   S100 SS Sicherheitsleiste(optional) Switch for safety board (option)   S1 FK Fangschalter Switch for iocking (bottom station)   S3 RK2 Riegelschalter TAL Switch for locking (bottom station)   S4 US Umgehungsschalter By-pass-switch   S5 RK1 Riegelschalter BERG Switch for locking (top station)   S8 SM2 Schranke TAL Mitte Switch for barrier (top station)   S9 SM1 Schranke TAL Unten Switch for barrier (top station) down   S11 SU1 Schranke TAL Unten Switch for barrier (top station) down   S12 PLO Plattformboden Oben Platform floor switch, floor up (optional)   S14 ET Etagenschalter Switch for intermediate station) down   S15 EU Endschalter Oben Limit switch DWN   S16 EO Endschalter Oben Limit switch for arrage   S21 S21 / 1 / 2 Schlüsselschalter an LAM Key switch or arraige   S18 AK1 Auffahrklappe TAL Switch for ramp (top station)   S19 KB Kontaktboden (Serie) Contact base monitor switch (optional)   S19 KB Kontaktbodenübe				
S100     SS     Sicherheitsleiste(optional)     Switch for safety board (option)       S1     FK     Fangschalter     Switch for safety board (option)       S4     US     Umgehungsschalter     Switch for locking (bottom station)       S4     US     Umgehungsschalter     By-pass-switch       S5     RK1     Riegelschalter BERG     Switch for locking (bottom station)       S8     SM2     Schranke TAL Unten     Switch for barrier (top station) middle       S9     SM1     Schranke BERG Unten     Switch for barrier (top station) down       S11     SU2     Schranke BERG Unten     Switch for intermediate station (optional)       S14     ET     Etagenschalter     Switch for intermediate station (optional)       S15     EU     Endschalter Unten     Limit switch UP       S7     S7 / 1 / 2     Schlüsselschalter am LAM     Control unit on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (top station)       S18     AK1     Auffahrklappe TAL     Switch for ramp (top station)       S19     KB     Kontaktbodenüberwachung (optional)     Contract base monitor switch (op				
S1 FK Fangschalter Switch on arrester OSG   S3 RK2 Riegelschalter TAL Switch for locking (bottom station)   S4 US Umgehungsschalter By-pass-switch   S5 RK1 Riegelschalter EERG Switch for boking (top station)   S8 SM2 Schranke TAL Mitte Switch for barrier (bottom station)   S9 SM1 Schranke TAL Unten Switch for barrier (top station) middle   S10 SU2 Schranke TAL Unten Switch for barrier (top station) down   S11 SU1 Schranke TAL Unten Switch for barrier (top station) down   S12 PLO Platformboden Oben Platform floor switch DOWN   S16 EO Endschalter Unten Limit switch DP   S7 S7 /1 / 2 Schlüsselschalter am LAM Key switch on carriage   S21 S21 / 1 / 2 Befehlsgeber am LAM Control unit on carriage   S18 AK1 Auffahrklappe BERG Switch for ramp (top station)   S19 KB Kontaktboden (Serie) Contact base monitor switch (optional)   KBÜ NC Kontaktbodenüberwachung (optional) Contact base monitor switch (optional)   V V Geschwindigkeit (optional) Speed switch (optional)   Y1 BS </td <td></td> <td></td> <td></td> <td></td>				
S3 RK2 Riegelschalter TAL Switch for locking (bottom station)   S4 US Umgehungsschalter By-pass-witch   S5 RK1 Riegelschalter BERG Switch for locking (top station)   S8 SM2 Schranke TAL Mitte Switch for barrier (bottom station) middle   S9 SM1 Schranke BERG Mitte Switch for barrier (bottom station) down   S11 SU2 Schranke TAL Unten Switch for barrier (top station) middle   S12 PLO Plattformboden Oben Platform floor switch, floor up (optional)   S14 ET Etagenschalter Switch for intermediate station (optional)   S16 EU Endschalter Oben Limit switch DOWN   S17 S7 / 1 / 2 Schlüsselschalter am LAM Key switch on carriage   S21 S21 / 1 / 2 Befehisgeber am LAM Control unit on carriage   S17 AK2 Auffahrklappe TAL Switch for ramp (top station)   S18 AK1 Auffahrklappe TAL Switch for switch (optional)   S19 KB Kontaktboden (Serie) Contact base monitor switch (optional)   V V Geschwindigkeit (optional) Contact base monitor switch (optional)   Y2 V Geschwindigkeit (optional) Speed switch (optional)			· · · · · ·	
S4     US     Umgehungsschalter     By-pass-switch       S5     RK1     Riegelschalter BERG     Switch for locking (top station)       S8     SM2     Schranke TAL Mitte     Switch for barrier (top station) middle       S9     SM1     Schranke BERG Mitte     Switch for barrier (top station) down       S11     SU2     Schranke BERG Unten     Switch for barrier (top station) down       S12     PLO     Platformboden Oben     Platform floor switch, floor up (optional)       S14     ET     Etagenschalter Onen     Limit switch DOWN       S15     EU     Endschalter Onen     Limit switch DOWN       S16     EO     Endschalter Onen     Limit switch DOWN       S17     AK2     Auffankthappe TAL     Switch for arang (top station)       S18     AK1     Auffankthappe BERG     Switch for aram (top station)       S19     KB     Kontaktbodenüberwachung     Contact base (series)       KBÜ     NC     Kontaktbodenüberwachung     Contact base monitor switch (optional)       Y1     BS     Bremslütter M1     Brake vent       Y2.2.     TK <t< td=""><td></td><td></td><td></td><td></td></t<>				
S5     RK1     Riegelschalter BERG     Switch for locking (top station) SWitch for barrier (bottom station) middle       S9     SM1     Schranke TAL Mitte     Switch for barrier (top station) middle       S10     SU2     Schranke BERG Mitte     Switch for barrier (top station) down       S11     SU1     Schranke BERG Unten     Switch for barrier (top station) down       S12     PLO     Platform floor switch, floor up (optional)       S14     ET     Etagenschalter     Switch for intermediate station (optional)       S15     EU     Endschalter Unten     Limit switch DWN       S16     EO     Endschalter Oben     Limit switch on carriage       S17     S7 / 1 / 2     Schlüsselschalter am LAM     Key switch on carriage       S18     AK1     Auffahrklappe TAL     Switch for interm (top station)       S18     AK1     Auffahrklappe BERG     Switch for intermal switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       V     V     Geschwindigkeit (optional)     Speed switch (optional)       F2.2     TK     Thermokontakt M1     Dri				
S8     SM2     Schranke TAL Mitte     Switch for barrier (bottom station) middle       S9     SM1     Schranke BERG Mitte     Switch for barrier (top station) middle       S10     SU2     Schranke TAL Unten     Switch for barrier (top station) down       S11     SU1     Schranke BERG Unten     Switch for barrier (top station) down       S12     PLO     Plattformboden Oben     Plattform floor switch, floor up (optional)       S15     EU     Endschalter Unten     Limit switch OVMN       S16     EO     Endschalter Oben     Limit switch UP       S7     S7 / 1 / 2     Schlägeber am LAM     Key switch on carriage       S11     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     Auffahrklappe BERG     Switch for ramp (top station)       S19     KB     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       V     V     Geschwindigkei (optional)     Speed switch (optional)       V     V     Geschwindigkei (optional)     Speed switch (optional)       Y1     BS     Bremslüfter M1     Brake vent				
middle       S9     SM1     Schranke BERG Mite     Switch for barrier (top station) middle       S10     SU2     Schranke TAL Unten     Switch for barrier (top station) down       S11     SU1     Schranke BERG Unten     Switch for barrier (top station) down       S12     PLO     Platformboden Oben     Platform floor switch, floor up (optional)       S15     EU     Endschalter Unten     Limit switch DOWN       S16     EO     Endschalter Oben     Limit switch DOWN       S16     EO     Endschalter Oben     Limit switch for orang (pottom station)       S17     S7 / 1 / 2     Schlüsselschalter am LAM     Key switch on carriage       S17     AK2     Auffahrklappe BERG     Switch for ramp (top station)       S18     AK1     Auffahrklappe BERG     Switch for sem (top station)       S19     KB     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       Y1     BS     Bremslüfter M1     Brake vent       Y30     + / -     Notladebuchse				
S10 SU2 Schranke TAL Unten Switch for barrier (bottom station) down   S11 SU1 Schranke BERG Unten Switch for barrier (top station) down   S12 PLO Platformboden Oben Platform floor switch, floor up (optional)   S14 ET Etagenschalter Switch for intermediate station (optional)   S15 EU Endschalter Unten Limit switch DOWN   S16 EO Endschalter Unten Limit switch OV   S7 S7 / 1 / 2 Schlüsselschalter am LAM Key switch on carriage   S21 S21 / 1 / 2 Befehlsgeber am LAM Control unit on carriage   S17 AK2 Auffahrklappe TAL Switch for ramp (bottom station)   S18 AK1 Auffahrklappe BERG Switch for ramp (top station)   S19 KB Kontaktboden überwachung (optional) Contact base monitor switch (optional)   KBÚ NO Kontaktbodenüberwachung (optional) Contact base monitor switch (optional)   V V Geschwindigkeit (optional) Speed switch (optional)   Y1 BS Berensüter M1 Brake vent   1X20 + / - Notladebuchse Emergency battery charging socket   1X30 + / - Ladegerät Battery charging socket   1X30				middle
S11   SU1   Schranke BERG Unten   Switch for barrier (top station) down     S12   PLO   Plattformboden Oben   Platform floor switch, floor up (optional)     S14   ET   Etagenschalter   Switch for intermediate station (optional)     S15   EU   Endschalter Unten   Limit switch DOWN     S16   EO   Endschalter Oben   Limit switch UP     S7   S7 / 1 / 2   Befehlsgeber an LAM   Key switch on carriage     S11   S21 / S21 / 1 / 2   Befehlsgeber an LAM   Control unit on carriage     S17   AK2   Auffahrklappe TAL   Switch for ramp (bottom station)     S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktboden (Serie)   Contact base (series)     KBÜ   NO   Kontaktbodenüberwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     Y1   BS   Bremslüfter M1   Drive motor thermal switch     Y1   BS   Bremslüfter M1   Battery charger     Y1   S50   NR   Notrutaster (optional)   Automatikmotor Boden			Schranke BERG Mitte	
S12     PLO     Plattformboden Oben     Platform floor switch, floor up (optional)       S14     ET     Etagenschalter     Switch for intermediate station (optional)       S15     EU     Endschalter Unten     Limit switch DOWN       S16     EO     Endschalter Oben     Limit switch UP       S7     S7 / 1 / 2     Befehlsgeber am LAM     Key switch on carriage       S21     S21 / 1 / 2     Befehlsgeber am LAM     Control unit on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     Auffahrklappe BERG     Switch for ramp (bottom station)       S19     KB     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       V     V     Geschwindigkeit (optional)     Speed switch (optional)       F2.2     TK     Thermokontakt M1     Drive motor thermal switch       Y1     BS     Bremslütter M1     Brake vent       1X30     + / -     Ladegerät     Battery charging socket       1X3			Schranke TAL Unten	Switch for barrier (bottom station) down
S14     ET     Etagenschalter     Switch for intermediate station (optional)       S15     EU     Endschalter Unten     Limit switch DOWN       S16     EO     Endschalter Oben     Limit switch DWN       S7     S7 / 1 / 2     Schlüsselschalter am LAM     Key switch on carriage       S21     S21 / 1 / 2     Befehlsgeber am LAM     Control unit on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     Auffahrklappe BERG     Switch for ramp (top station)       S19     KB     Kontaktboden (Serie)     Contact base monitor switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       V     V     Geschwindigkeit (optional)     Speed switch (optional)       F2.2     TK     Thermokontakt M1     Drive motor thermal switch       Y1     BS     Bremslüfter M1     Brake vent       1X20     + / -     Notladebuchse     Emergency battery charging socket       1X30     + / -     Ladegerät     Battery charger       F1.2     F1.2			Schranke BERG Unten	Switch for barrier (top station) down
S15     EU     Endschalter Unten     Limit switch DOWN       S16     EO     Endschalter Oben     Limit switch UP       S7     S7 / 1/2     Schlüsselschalter am LAM     Key switch on carriage       S21     S21 / 1/2     Befehlsgeber am LAM     Control unit on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     Auffahrklappe BERG     Switch for ramp (top station)       S19     KB     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       Y     V     Geschwindigkeit (optional)     Speed switch (optional)       F2.2     TK     Thermokontakt M1     Drive motor thermal switch       Y1     BS     Bremslüfter M1     Brake vent       1X20     + / -     Notladebuchse     Emergency battery charging socket       1X30     + / -     Ladegerät     Battery charger       F1.2     F1.2     Ladesicherung 6A     Charging circuit breaker 6A       M2     M2				Platform floor switch, floor up (optional)
S16     EO     Endschalter Oben     Limit switch UP       S7     S7 / 1 / 2     Schlüsselschalter am LAM     Key switch on carriage       S21     S21 / 1 / 2     Befehlsgeber am LAM     Control unit on carriage       S17     AK2     Auffahrklappe TAL     Switch for ramp (bottom station)       S18     AK1     Auffahrklappe BERG     Switch for ramp (top station)       S19     KB     Kontaktboden (Serie)     Contact base (series)       KBÜ     NO     Kontaktboden überwachung (optional)     Contact base monitor switch (optional)       KBÜ     NC     Kontaktbodenüberwachung (optional)     Contact base monitor switch (optional)       V     V     Geschwindigkeit (optional)     Speed switch (optional)       Y1     BS     Bremslüfter M1     Brake vent       1X20     + / -     Notadebuchse     Emergency battery charging socket       1X30     + / -     Ladegerät     Battery charger       F1.2     F1.2     Ladesicherung 6A     Charging circuit breaker 6A       M2     M2     Automatikmotor Boden(optional)     Emergency call switch (optional)       S55 <td>S14</td> <td>ET</td> <td></td> <td>Switch for intermediate station (optional)</td>	S14	ET		Switch for intermediate station (optional)
S7   S7 / 1 / 2   Schlüsselschalter am LAM   Key switch on carriage     S21   S21 / 1 / 2   Befehlsgeber am LAM   Control unit on carriage     S17   AK2   Auffahrklappe TAL   Switch for ramp (bottom station)     S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktboden überwachung (optional)   Contact base (series)     KBÜ   NO   Kontaktbodenüberwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     Y1   BS   Bremslüfter M1   Brake vent     1X20   + / -   Notladebuchse   Emergency battery charging socket     1X30   + / -   Ladegerät   Battery charger     F1.2   F1.2   Ladegicherung 6A   Charging circuit breaker 6A     M2   M2   Automatikmotor Boden(optional)   Automatic base moor (optional)     S55   HZE   Fühler Heizung   Temperature sensor     S55   HZE   Fühler Heizung   Temperature sensor	S15	EU	Endschalter Unten	Limit switch DOWN
S21   S21 / 1 / 2   Befehlsgeber am LAM   Control unit on carriage     S17   AK2   Auffahrklappe TAL   Switch for ramp (bottom station)     S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktboden überwachung (optional)   Contact base monitor switch (optional)     KBÜ   NO   Kontaktboden überwachung (optional)   Contact base monitor switch (optional)     KBÜ   NC   Kontaktboden überwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     F2.2   TK   Thermokontakt M1   Drive motor thermal switch     Y1   BS   Bremslüter M1   Brake vent     1X20   + / -   Ladegerät   Battery charging socket     1X30   + / -   Ladegerät   Battery charger     F1.2   F1.2   Ladesicherung 6A   Charging circuit breaker 6A     M2   M2   Automatikmotor Boden(optional)   Futery charger     S50   NR   Notruftaster (optional)   Flashing light (optional)     S55   HZE   Fühler Heizung   Temperature sensor	S16	EO	Endschalter Oben	Limit switch UP
S17   AK2   Auffahrklappe TAL   Switch for ramp (bottom station)     S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktboden (Serie)   Contact base (series)     KBÜ   NO   Kontaktbodenüberwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     F2.2   TK   Thermokontakt M1   Drive motor thermal switch     Y1   BS   Berenslüfter M1   Brake vent     1X20   + / -   Ladegerät   Battery charging socket     1X30   + / -   Ladegerät   Battery charging socket     1X30   + / -   Ladegerät   Battery charging socket     M2   M2   Automatikmotor Boden(optional)   Automatic base motor (optional)     S50   NR   Notruftaster (optional)   Emergency call switch (optional)     H1   H1   Bitzleuchte (optional)   Emergency call switch (optional)     S55   HZE   Fühler Heizung   Temperature sensor     S	S7	S7 / 1 / 2	Schlüsselschalter am LAM	Key switch on carriage
S18   AK1   Auffahrklappe BERG   Switch for ramp (top station)     S19   KB   Kontaktboden (Serie)   Contact base (series)     KBÜ   NO   Kontaktboden überwachung (optional)   Contact base monitor switch (optional)     KBÜ   NC   Kontaktboden überwachung (optional)   Contact base monitor switch (optional)     V   V   Geschwindigkeit (optional)   Speed switch (optional)     F2.2   TK   Thermokontakt M1   Drive motor thermal switch     Y1   BS   Bremslüfter M1   Brake vent     1X20   + / -   Notladebuchse   Emergency battery charging socket     1X30   + / -   Ladegerät   Battery charger     F1.2   F1.2   Ladesicherung 6A   Charging circuit breaker 6A     M2   M2   Automatikmotor Boden(optional)   Automatic base motor (optional)     S50   NR   Notruftaster (optional)   Emergency call switch (toptional)     H1   H1   Blitzleuchte (optional)   Flashing light (optional)     S55   HZE   Fühler Heizung   Temperature sensor     S55   RK1S   Riegelschalter TAL(Schliesser)   Locking switch (top station) <td>S21</td> <td>S21/1/2</td> <td>Befehlsgeber am LAM</td> <td>Control unit on carriage</td>	S21	S21/1/2	Befehlsgeber am LAM	Control unit on carriage
S19KBKontaktboden (Serie)Contact base (series)KBUNOKontaktbodenüberwachung (optional)Contact base monitor switch (optional)KBUNCKontaktbodenüberwachung (optional)Contact base monitor switch (optional)VVGeschwindigkeit (optional)Speed switch (optional)F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)H1H1Blitzleuchte (optional)Flashing light (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsS51RK1SRiegelschalter BERG(Schliesser)Locking switch (top station)S01Schranke BERG obenBarrier switch (bottom station) upS01Schranke TAL obenBarrier switch (top station)M3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (top station)24V+ -24V24 VM1 / A1/A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKK	S17	AK2	Auffahrklappe TAL	Switch for ramp (bottom station)
KBÜNOKontaktbodenüberwachung (optional)Contact base monitor switch (optional)KBÜNCKontaktbodenüberwachung (optional)Contact base monitor switch (optional)VVGeschwindigkeit (optional)Speed switch (optional)F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)H1H1Blitzleuchte (optional)Flashing light (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsS51RK1SRiegelschalter BERG(Schliesser)Locking switch (top station)S31RK2SRiegelschalter TAL(Schliesser)Locking switch (top station)S01Schranke BERG obenBarrier switch (bottom station) upS02Schranke TAL obenBarrier switch (top station)M3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (top station)24V+ -24V24 VM1 / A1/A2A1 / A2AntriebsmotorDrive motorA	S18	AK1	Auffahrklappe BERG	Switch for ramp (top station)
KBÜNCKontaktbodenüberwachung (optional)Contact base monitor switch (optional)VVGeschwindigkeit (optional)Contact base monitor switch (optional)F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsP+P-PieperBuzzerS5RK1SRiegelschalter BERG(Schliesser)Locking switch (top station)S3RK2SRiegelschalter TAL(Schliesser)Locking switch (bottom station)S01Schranke BERG obenBarrier switch (bottom station) upPLUPlattformboden untenPlatform floor switch, floor downM3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (top station)24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeable batteries 24 V 9Ah	S19	KB	Kontaktboden (Serie)	Contact base (series)
KBÜNCKontaktbodenüberwachung (optional)Contact base monitor switch (optional)VVGeschwindigkeit (optional)Speed switch (optional)F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)H1H1Blitzleuchte (optional)Flashing light (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsP+P-PieperBuzzerS5RK1SRiegelschalter TAL(Schliesser)Locking switch (top station)S3RK2SRiegelschalter TAL(Schliesser)Locking switch (bottom station)S01Schranke BERG obenBarrier switch (bottom station) upS02Schranke TAL obenBarrier switch (bottom station) upM3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (top station)24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeabl	KBÜ	NO		Contact base monitor switch (optional)
VVGeschwindigkeit (optional)Speed switch (optional)F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)H1H1Blitzleuchte (optional)Flashing light (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsP+P-PieperBuzzerS5RK1SRiegelschalter BERG(Schliesser)Locking switch (bottom station)S01Schranke BERG obenBarrier switch (bottom station) upS02Schranke TAL obenBarrier switch (bottom station) upM3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)A4V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeab	KBÜ	NC	Kontaktbodenüberwachung	Contact base monitor switch (optional)
F2.2TKThermokontakt M1Drive motor thermal switchY1BSBremslüfter M1Brake vent1X20+ / -NotladebuchseEmergency battery charging socket1X30+ / -LadegerätBattery chargerF1.2F1.2Ladesicherung 6ACharging circuit breaker 6AM2M2Automatikmotor Boden(optional)Automatic base motor (optional)S50NRNotruftaster (optional)Emergency call switch (optional)H1H1Blitzleuchte (optional)Flashing light (optional)S55HZEFühler HeizungTemperature sensorS56HZAHeizelementeHeating elementsP+ P-PieperBuzzerS5RK1SRiegelschalter BERG(Schliesser)Locking switch (top station)S3RK2SRiegelschalter TAL(Schliesser)Locking switch (top station) upS01Schranke BERG obenBarrier switch (top station) upPLUPlattformboden untenPlatform floor switch, floor downM3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU 24VAKKU 24V 9AhRechargeable batteries 24 V 9Ah	V	V		Speed switch (optional)
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PLUPlattformboden untenPlatform floor switch, floor downM3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeable batteries 24 V 9 Ah				
M3M3Automatikmotor Schranke BergAutomatic barrier motor (top station)M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)24V+ -24V24VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeable batteries 24 V 9 Ah				· · · · ·
M4M4Automatikmotor Schranke TalAutomatic barrier motor (bottom station)24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeable batteries 24 V 9 Ah	M3			,
24V+ -24V24 VM1 / A1 / A2A1 / A2AntriebsmotorDrive motorAKKU 24VAKKU + -Akkus 24V 9AhRechargeable batteries 24 V 9 Ah			*	
M1 / A1 / A2     A1 / A2     Antriebsmotor     Drive motor       AKKU 24V     AKKU + -     Akkus 24V 9Ah     Rechargeable batteries 24 V 9 Ah				
AKKU 24V AKKU + - Akkus 24V 9Ah Rechargeable batteries 24 V 9 Ah				
v				
Kanmen Masse I (INI) I Masse Kahmen I (Iround chassis	Rahmen Masse	GND	Masse Rahmen	Ground chassis

zusätzliche, nicht in der S	teuerung aufgeführten Schalter und Sicherun	gen				
additional switches and board	fuse, not mentioned on the control					
Q0	Hauptschalter	main switch				
F4	Ladesicherung extern	external charging fuse				
F6.1/F6.2	Sicherungen Akku´s	rechargeable battery fuses				
F7	Hauptsicherung	main fuse				
SK1	Seitenkontakt BERG	side contact, top station				
SK2	Seitenkontakt TAL	side contact, bottom station				
RV1	Kontakt Rückverkleidung BERG	contact, rear cover, top station				
RV2	RV2 Kontakt Rückverkleidung TAL contact, rear cover, bottom static					
RU	Kontakt Rahmen Unterseite	contact, underside of frame				
НО	Kontakt Haube	hood contact, top				
BK	Beladungskontrolle	load monitor				