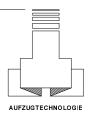
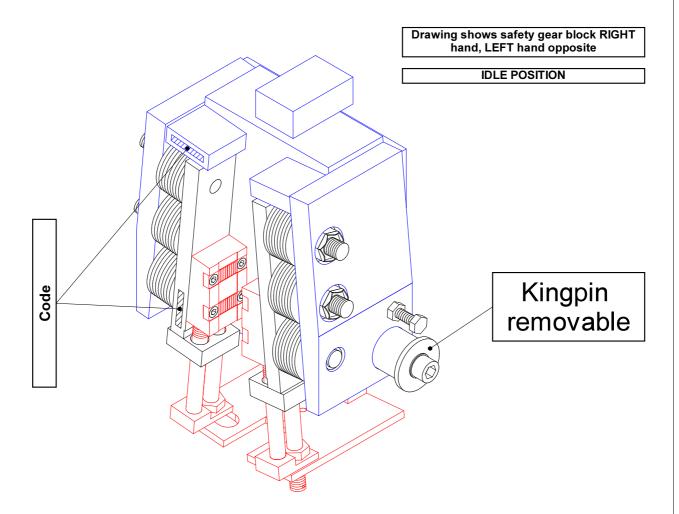


KB 55 S ↓



Progressive safety gear - working in DOWN direction only = rated load + car weight in DOWN direction (FREE FALL)

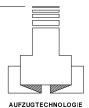
Activated by overspeed governor through overspeed governor rope (standard finish with tension weight in pit)



General Information	 5270.800.002
Nomination of parts and Outer housing	 5270.800.003
Installation and Maintenance	 5270.800.004
Adjustment on Site	 5270.800.005
Check	 5260.800.006
Safety Book - GENERAL - 1	 5230.800.016
Safety Book - GENERAL - 2	 5230.800.017
Safety Book - CHECKLISTE	 5260.800.007
Safety Switch in Idle Position	 5230.800.018

Edition: 26.07.2001	₩		MANUAL KB 55 S ↓			Drawing No.: 5270.800.001
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KB 55 S ↓



Construction - Function:

The knurled tungsten wedge grip on the brake shoe pulls self-locking after engaging and tensions the spring washers

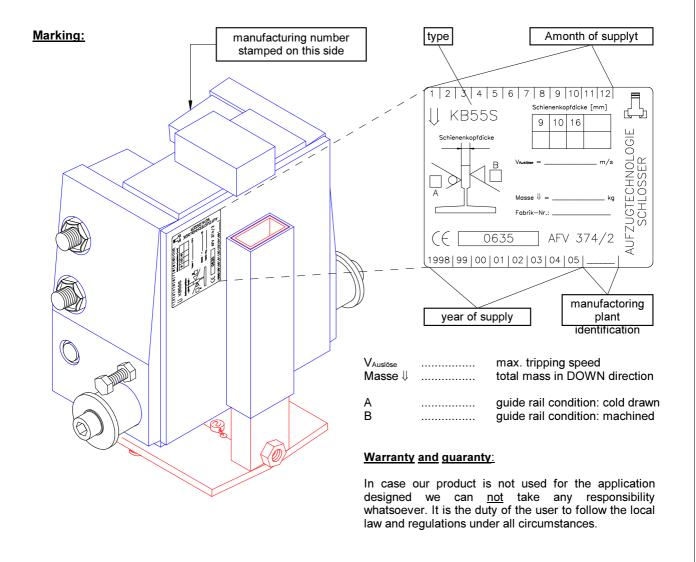
Parameter:

safety gear type guidethickness guide rail surface total mass contract speed tripping speed KB 55 S

gaccord. EEC type examination certificate ...
AFV 374 /

Guide rail condition: either cold drawn or machined, surface can be either dry or lubricated. Lubricant must be in accordance with DIN 51517, part 1.

The safety gear type KB 55 S is certified to European Standards and hold certificates to DIN EN 81.



Edition:
26.07.2001

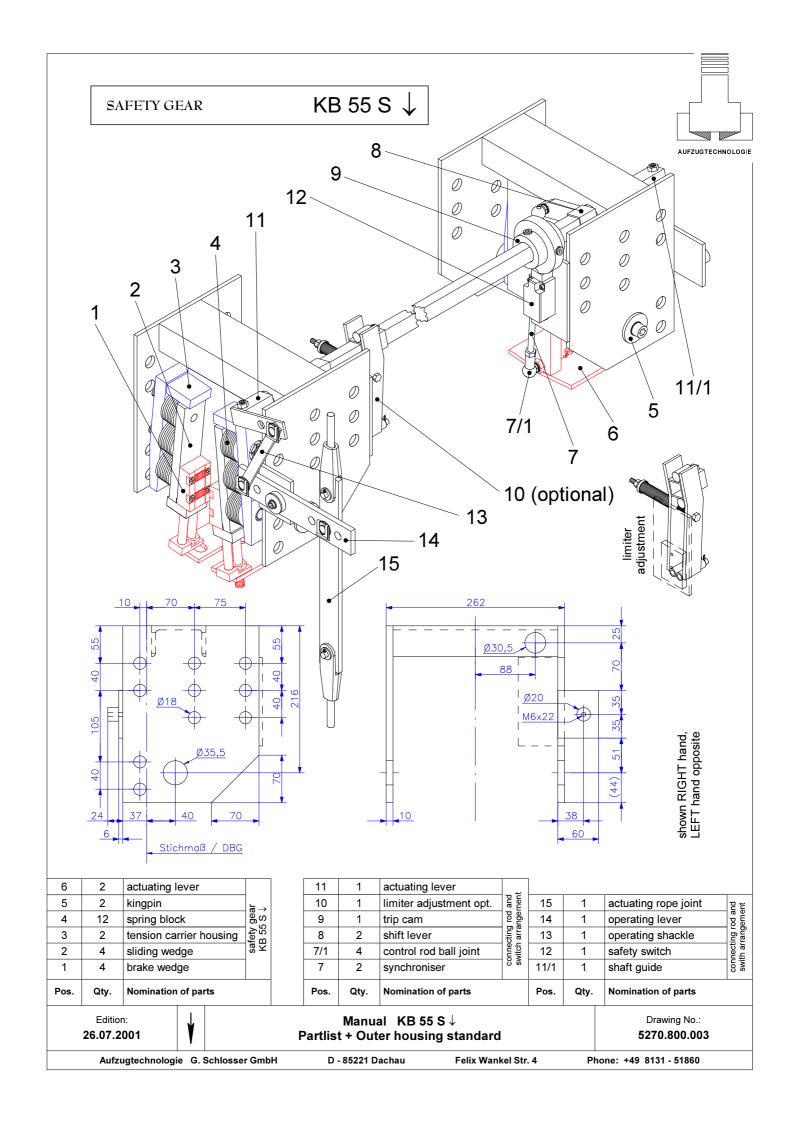
Manual KB 55 S ↓
General Information

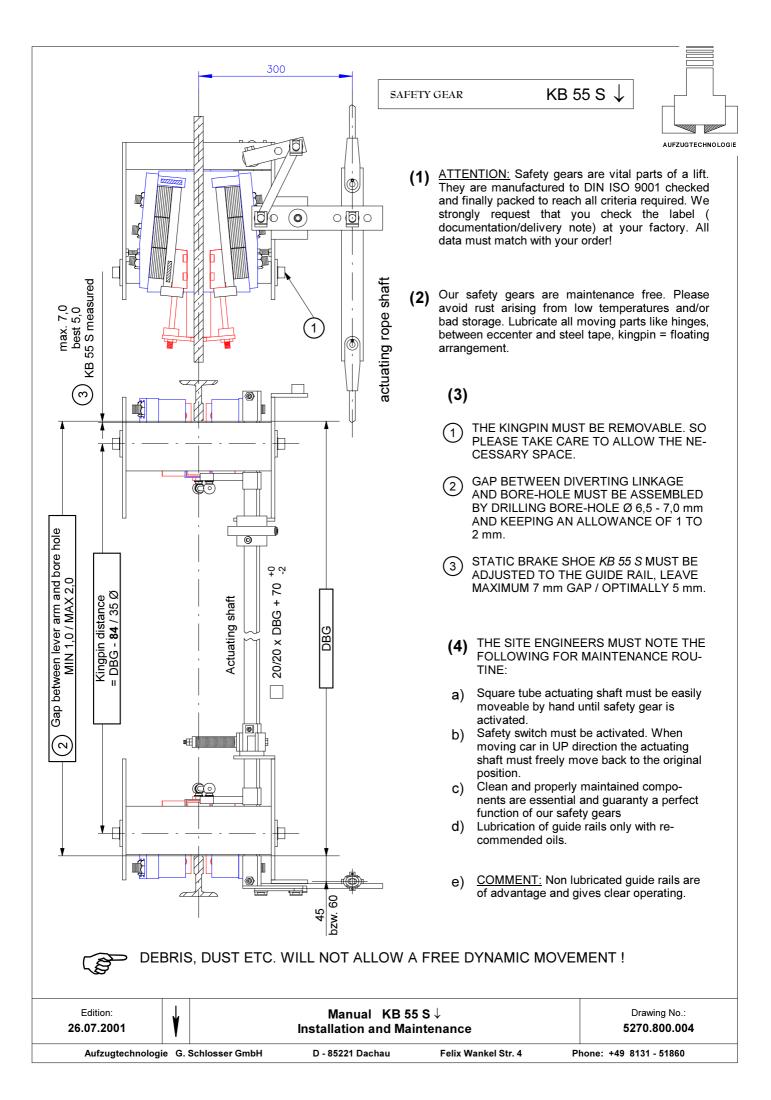
Drawing No.:
5270.800.002

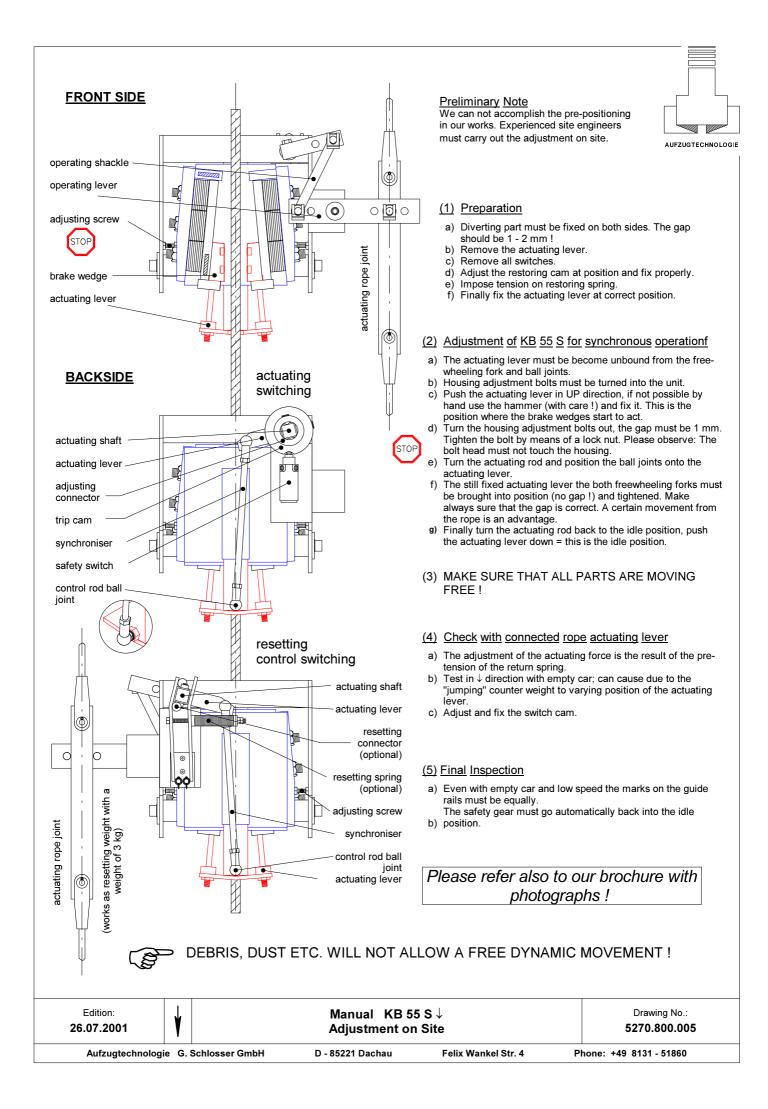
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Testing the Safety Gear: ↓



AUFZUGTECHNOLOGIE

The friction depends on several factors like hardness of the guide rail surface, roughness and the surface hardness of the brake shoes of the safety gear unit. The brake force is also vital. The brake force depends on the adjusted end point of the selcted springs. The friction coefficient is the result of:

- a) Material and form of the brake shoes
- b) -> Hardness and roughness of the guide rails
 - -> Type and viscosity of the lubrication oil

Experienced lift engineers will before starting the installation drive check the installed car sling. The actuating, braking distance, and engaging should be checked before hand. During this test the overspeed governor will be checked as well.



WE ARE PLEASED TO HAND OVER THE SPRING LOAD CHARACTERIS-TICS CURVES AND ADJUST- AND RE-ADJUST INSTRUCTIONS TO LIFT ENGINEERS WILLING TO ACCEPT RESPONSIBILITY.

reading of marks



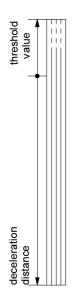
DOWN





Before handing over, a safety gear test must be performed.

- a) 1,25 x contract load, open brake on gear, do not loop safety switches of overspeed governor and safety gear
- **b)** contract load, open brake on gear, do not loopsafety switches of overspeed governor and safety gear





CANCEL THE BRAKE POSITION: FAST PASSING

Depending on site condition you may test the lift several times to assure that under all conditions the system is working perfect. The principle is main ropes under tension - main ropes slack. In case you can not get the car out of the safety gear a traction sheave clamp is useful. Also with the assistance of the hand winding procedure it will ease the car.

In the DOWN direction mode during a short threshold period and in the deceleration mode a massive energy conversion will take place.

deceleration [g]:
$$a = v^2 = []^2$$

 $2 \cdot s \cdot 10$ $2 \cdot [] \cdot 10$

v = deceleration start speed [m/s]; s = deceleration distance [m]; a = deceleration [g];



DEBRIS, DUST ETC. WILL NOT ALLOW A FREE DYNAMIC MOVEMENT!

Edition:
26.07.2001

Manual KB 55 / KB 55 S ↓
Check

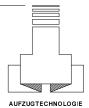
Drawing No.:
5270.800.006

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WHY ARE YOU NOT MAKING YOUR LIFE EASIER!

Working with lifts needs a sense of responsibility and is also sometimes hard physical work. You can take a lot of the strain from your site engineers by following our suggestion based on our long experience in the field.



The kingpin must be easily removed.

Keep easy access for works on the safety gear.

Keep sufficient room at the car framework to check actuating gear and safety switch and each part.

(b) Make sure free ans easy running:

At turning the actuating shaft no obstacle is to be feeled.

At stressed resetting spring and safety switch screwed on the pulling force on the governor rope may not surpass 300 N.

(C) DO NOT USE HEAVY OVERSPEED GOVERNOR ROPE TENSION WEIGHT:

Our tension weight DrawingNo. 5230.260.300 is tailor made for our units.

Tension weight exceeding 60 kg demolishes the actuating shaft components and complicated the release of the safety gear blocks.

- (d) CHECK ALL THE COMPONENTS IN ACCORDANCE TO EN 81.
- (e) READ OUR INSTRUCTION MANUAL CAREFULLY.
- (f) THE SAFETY GEAR IS THE SIGNIFICANT PART OF THE LIFT CONSTRUCTION. HENCE MAKE ABSOLUTELY SURE EVERY CARE IS TAKEN TO INSTALL THE COMPONENTS CORRECT.
 - Clean and properly maintained components are essential and guaranty a perfect function of our safety gears!

Edition:
26.07.2001

Safety Book - GENERAL - 1
Safety Gear - ENVIRONMENT

Drawing No.:
5230.800.016

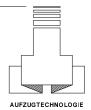
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Annex D





:

D.2 Tests and verifications

:

j) car safety gear (9.8):

the energy which the safety gear is capable of absorbing at the moment of engagement will have been verified in accordance with F.3. The aim of the best before putting into service is to check the correct mounting, correct setting and the soundness of the complete assembly, comprising car, safety gear, guide rails and their fixing to the building.

The test shall be made while the car is descending, with the required load uniformly distributed over the car area, with the machine running until the ropes slib or become slack, and under the following conditions:

.

2. progressive safety gear:

the car shall be loaded with 125 % of the rated load, and travel at rated speed or lower.

When the test is made with lower than rated speed, the manufacturer shall provide curves to illustrate the behaviour of the type tested progressive safety gear when dynamically tested with the suspen-sions attached.

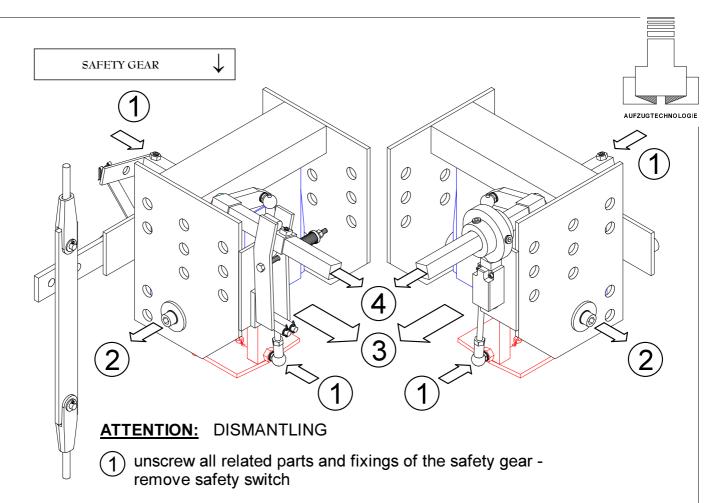
After the test, it shall be ascertained that no deterioration, which could adversely affect the normal use of the lift has occurred. If necessary, friction components may be replaced. Visual check is considered to be sufficient.

Note:

In order to faciliate disengagement of the safety gear, it is recommended that the test be carried out opposite a door in order to be able to unload the car.

Edition: **26.07.2001**

Safety Book - GENERAL - 2 Extract from European Standard prEN 81-1 Drawing No.: **5230.800.017**



- (2) unscrew the fixings and remove the kingpins
- 3 the complete safety gear unit must be removable without taking any parts of the car sling

ATTENTION: ACTUATING SHAFT

(4) actuating shaft with axial gap of 1-2mm, movable by hand

ATTENTION: ASSEMBLING

NOnly clean guide rails and brake shoe surface will give you the full performance - don't put the safety gear units in before you checked this.

- → Fwe tested paint thinner "LUSIN 400"
- → otherwise: Cold Cleaner

Dieseloil

Rust Preventer

→ Follow the recommendations of the guide rail suppliers!

ATTENTION: TAKE CARE TO USE JUST APPROPRIATE LUBRICANTS!

DEBRIS, DUST, ETC. WILL NOT ALLOW A FREE DYNAMIC MOVEMENT!

 Edition:
 Safety Book - CHECKLIST
 Drawing No.:

 26.07.2001
 Safety Gear ↓ KB 55 / KB 55 S
 5260.800.007

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