



— NUMBER ONE IN THE FOREST —

Sit Right automatic seat leveller. Instruction for "Model 2007 S/S"

****What can the unit do**

The unit compensates for machine tilting sidewise on slopes (max 13 degrees).
The unit control and adjust automatically needed settings at every powering up.
The unit has two working modes: AUTOMAT and HOME
The unit can be manually controlled when needed
The unit can be programmed for 7 different speeds. Individually for 3 drivers.
The unit can be programmed for different positioning of the limit-switches, individually for 3 drivers.
The unit have an active distress stop. (se security information)

**** Security information**

Be aware of the risk of squeezing when the unit is moving. See that no lose objects can go in between the units upper and down parts.
The unit is closed down after 5 seconds if it can not perform ordered movement.
The unit is protected of an 5 ampere fuse placed on the power cable.

**** What do I need to know to use the unit in the right manor.**

START:

* When powering (normally the ingnition key) the LED on driver 1 on control box will light.

***Then you have to activate the unit** by pushing on A/H on the control box.

One push activate AUTO (LED at A/H twinkling) next push activate HOME (LED at A/H have steady light). Next push activate AUTO and so on.

* During activation of the unit there is a start sequence. The unit controls that the settings are correct and if needed adjust them. During this control the unit goes some strokes side to side over the middle point of the stroke. After that the chosen working mode is activated. If you have pushed A/H once it is AUTO if you pushed twice it is HOME.

AUTO means that the unit automatically compensate for machine tilting on slope.

HOME means that the unit is locked in the middle until AUTO is activated.

STOP:

The unit is switched of by cutting the power (normally ignition key).

PROGRAMMING

Is done with help of the control box. It has 5 keys which have the following functions.

<u>Key</u>	<u>Function</u>
Left arrow	Manual moving to the left and also for programming.
Right arrow	Manual moving to the right and also for programming.
A/H	Alternately activating of AUTO/HOME. When Auto is activated the LED twinkles, when Home is activated the LED has steady light.
D/P	For programming of limit-switches and selection of driver.
S	For selection of programming mode and for programming of speed.
LED	Shows selected driver 1,2 or 3. The one above A/H key shows which function is activated.

NOTE: the unit goes out from programming mode if you do not press any key within 8 sec. When changing speed the timelimit is 4 sek

Limit switch no 1 left arrow key, see picture on page 3.

Push D/P for 8 sec.,LED twinkle. Push two times on S- key (LED 1 twinkle) With the arrow keys go to wished position for the limit-switch and then push D/P for setting (the LED twinkling faster). Wait until the twinkle has stopped and the programming is done.

Limit switch no 2 right arrow key, see picture on page 3.

Push D/P for 8 sec.,LED twinkle. Push three times on S- key (LED 3 twinkle) With the arrow keys go to wished position for the limit-switch and then push D/P for setting (the LED twinkling faster). Wait until the twinkle has stopped and the programming is done.

Speed

Can be set individually for driver 1,2,3. With a short push on D/P you can step forward to wished driver. Then push S-key and LED start to twinkle. You can now set speed in 7 steps. Left arrow key is declining speed and right arrow key is increasing speed. (Wait for twinkle to stop and the programming of speed is ready).

The factory setting for DRIVER 1-3 = 1=50%, 2=lowest, 3= highest

NOTE the unit always start on driver no1. When you like to go on other drivers you have to change with D/P as explained above.

****If something goes wrong what do I do.**

There are 3 areas of possible faults.

1. Fault outside of the unit like: power fault, ground fault, broken cables, broken fuse.

- * Check there is 24 Volt DC to the unit.
- * Lose- or cut off powercable or groundconnection cable
- * Fuse broken ?
- * Cables loosen from contacts at unit.

2. Electronic fault like component fault or connection fault in cables and contacts for the unit.

NOTE! When fault in the electronic unit it is easy to exchange in the machine when there is only two screws to unscrew and two contacts to take out.

3. Mechanical fault.

NOTE! To take care of mechanical faults you have to dismount the whole seat leveller.


- * We have a exchange system. We send out an exchange unit so you can mount a unit at the same time as you remove the faulty unit.

If fault happens to the unit and you can not take care of it directly there are two security links on the back of the unit to lock it with. Cut out the power (easiest by taking out the fuse). Then you can continue to work and do the repair at a suitable time. If the unit stops when tilting you can turn it back, to middle, manually. See the picture page 3.. With a screwdriver you can turn the plate to the right position.

****Technical information**

Unit / control box
Placement of cables

**Activated driver
Shown by LED**

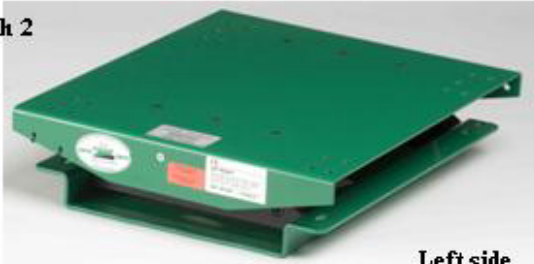


Arrow key left
Arrow key right
A/H
Activation key
1 push = AUTO
Twinkling LED
2 push = HOME
Steady light LED

D/P
Programming
Choose of driver


S
Choose of programming mode
Activate speed setting

View of front side




**Right side
Limit switch 2**

**Left side
Limit switch 1**



**Control box with cable
Fuse holder and contact**

View of backside



**Manuel turning of unit
With screwdriver**

**Security links for
Locking the unit**

**Cables for Elektronik 300220-xxxxxxx
Sit Right automatic seat leveller M-07.**

contact 7-pol for power and control box

Power 24 V DC (+) red	—	⊗	□
Ground. (-) black	—	⊗	□
Control box (+) white	—	⊗	□
Control box (-) brown	—	⊗	□
Manöverdosa data signal yellow	—	⊗	□
Not used in this application	—	⊗	□
Not in use in this application	—	⊗	□



Contact 8-pol for motor power, pulssensor and hallsensor

⊗	Power. (+) puls- & hallsensor red + red (fine)
⊗	Ground. (-) puls- & hallsensor black +black (fine)
⊗	Power Motor red thick
⊗	Power Motor black thick
⊗	Watch pulssensor green
⊗	Data signal pulssensor yellow
⊗	Signal from hallsensor green (fine)
⊗	Signal from hallsensor yellow (fine)



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