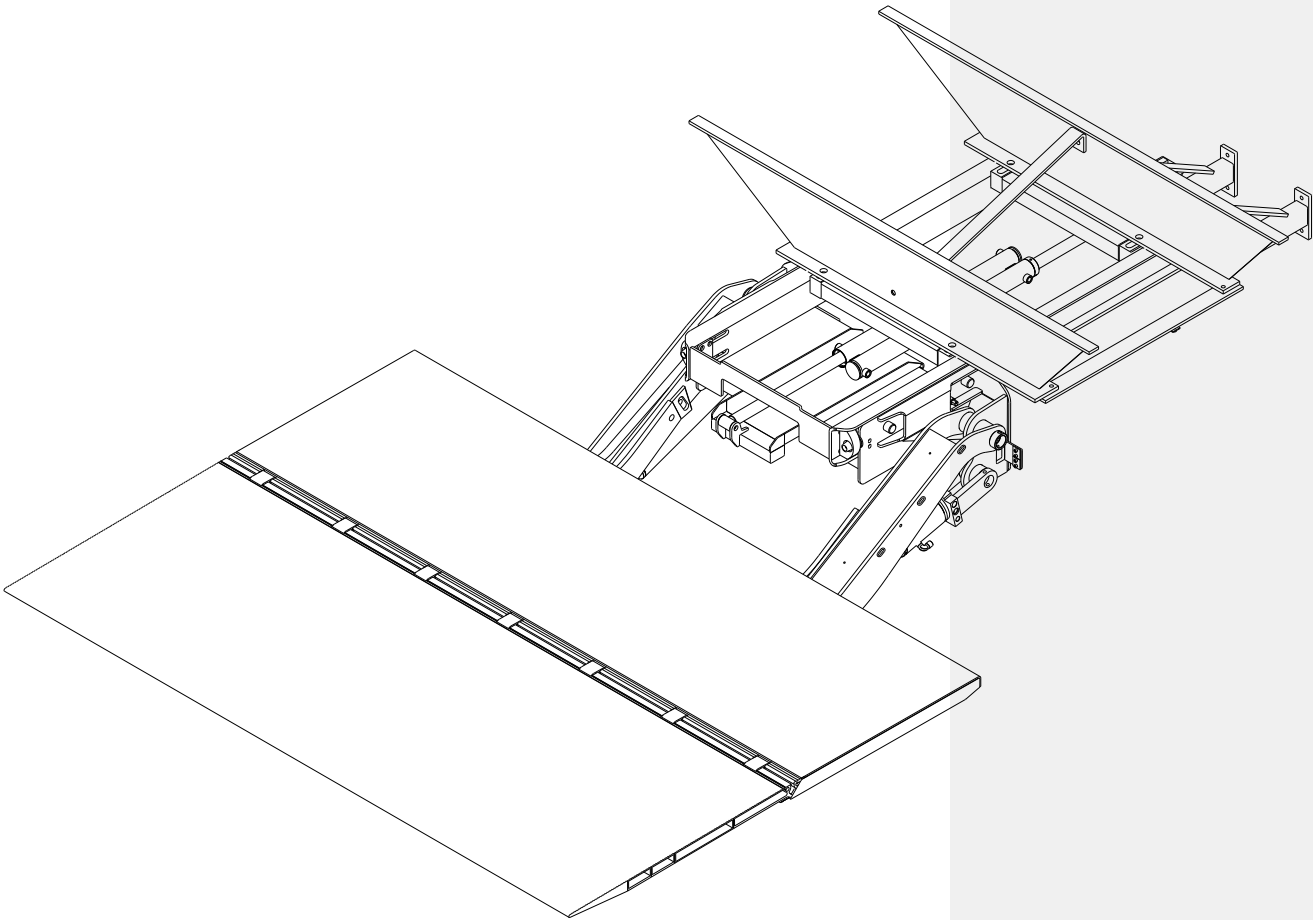


MAXON®

Slidelift



Installation manual

GPSS 33 X1

MAXON®
Lift CORP.

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X1
TECHNOLOGY

Document no.: S 20 907 783
Version 11.05.2005

Installation Manual GPSS 33 X1

Introduction

This installation manual contains all instructions necessary to install the Slidelift and adjust it to the chassis or trailer it was designed for. To determine whether the Slidelift may be installed on a certain vehicle, please contact us. We will provide the necessary information.

If the Slidelift needs to be modified or if it is necessary to deviate from these installation instructions, a written approval from MAXON Lift Corp. needs to be obtained first. Unapproved modifications and deviations from this installation manual may lead to failure and to operating interruptions as well as to hazards for the operator. The warranty for the Slidelift will be voided by "unapproved modifications" and "deviations from the installation directions."

The mounting guidelines of the chassis manufacturer need to be complied with!

Check for damages after arrival

For damages on the liftgate which occurred during transportation, the shipping/forwarding company will be responsible. The lift needs to be checked for damages upon arrival. If any damages occurred during transportation, they need to be recorded on the waybill, so that claims can be raised. Insurance claims can be settled only by Maxon Lift CORP. and the shipping/forwarding company or its insurance.

Trailer hitch

If the vehicle has a trailer hitch, the clearance of the shaft axle to the liftgate and the overall length need to be guaranteed by the installer.

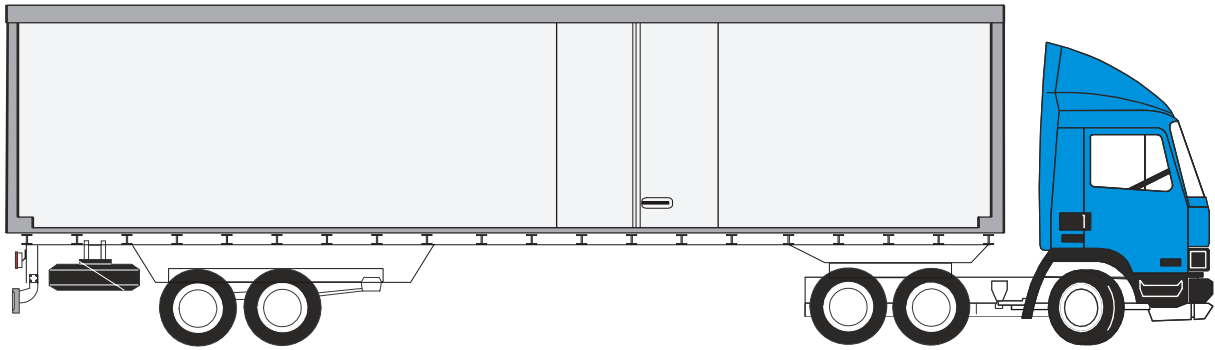
Installation-Safety Precautions

- Before installing, the battery of the vehicle needs to be disconnected. The vehicle needs to be secured against all unintentional shifting.
- The plugs for electronic systems as for example ABS needs to be pulled before welding. Fuel lines, air hoses of the brake system, and cables in the installation area need to be protected against damages.
- Any special safety regulations (if applicable) need to be complied with.
- Safety gear, like protective goggles, work gloves and work boots, need to be made available before installing and are to be used if necessary.
- Safety devices on cranes, forklifts, and other lifting gear necessary for installing are to be checked to see if they are in proper working condition before they are used.

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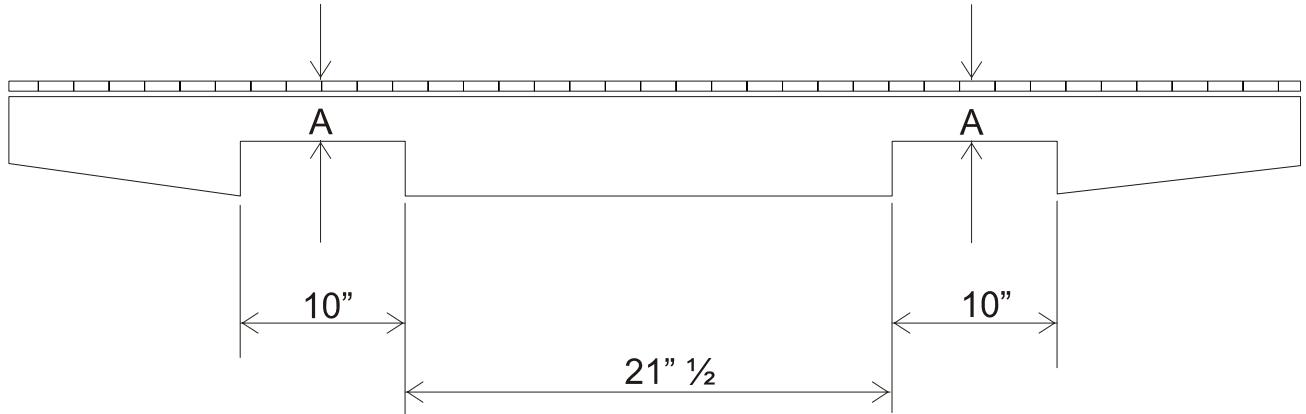
Vehicle preparation

Remove the underride bumper and the tail lights. If there are any U-shaped mounting brackets with threads on both sides, brackets, rivets, spare wheels, or couplings in the installation area of the mounting plates, they need to be removed. If necessary, remove hinges and latches. Cut out openings in the rear frame according to our suggestions chapter "openings in the Rear Frame" on pages 3.

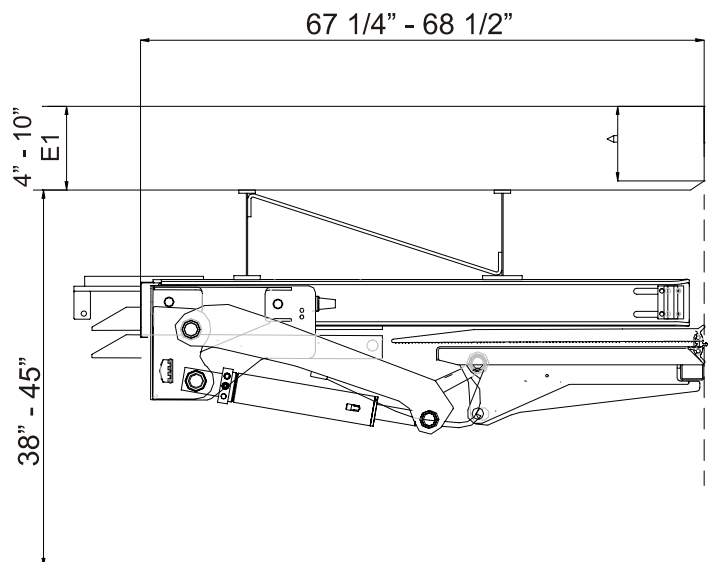


The cabin of the truck should be protected against dirt using protective cloth material

Rear frame cut outs



E1	A max.
4"	6 7/8"
6"	7 5/16"
8"	7 7/8"
10"	8 11/16"



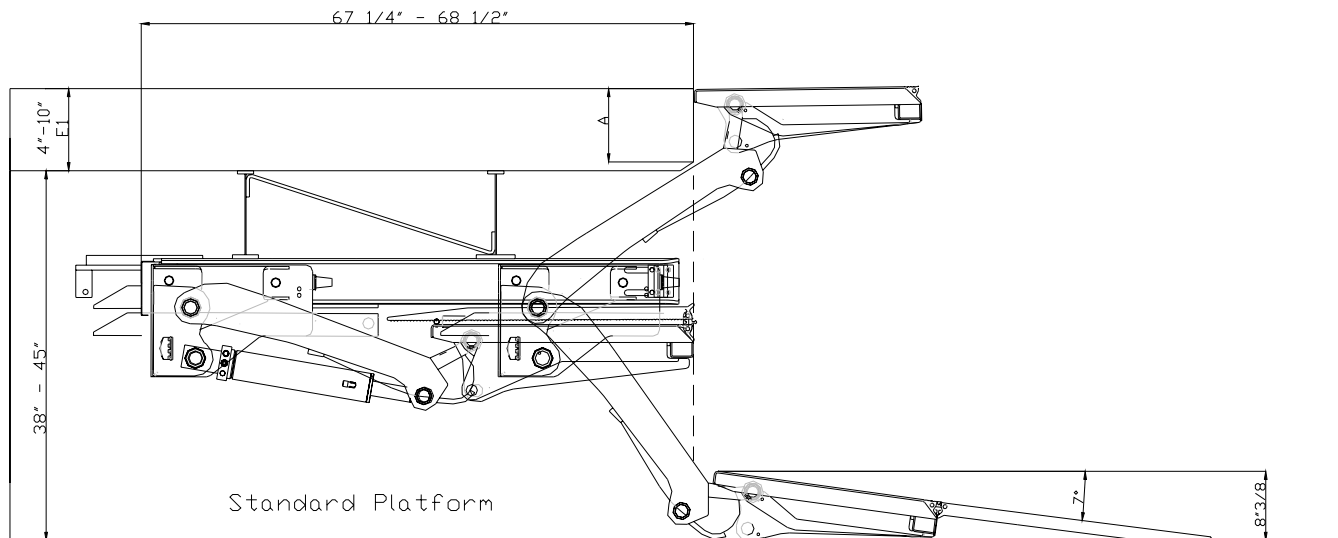
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Installation

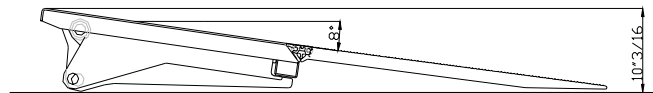
Standard Platform

Heavy Duty Platform

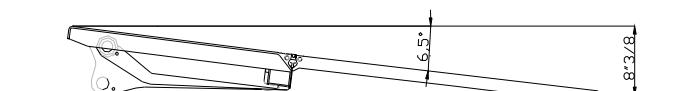
Standard Platform + 4"



Heavy Duty Platform



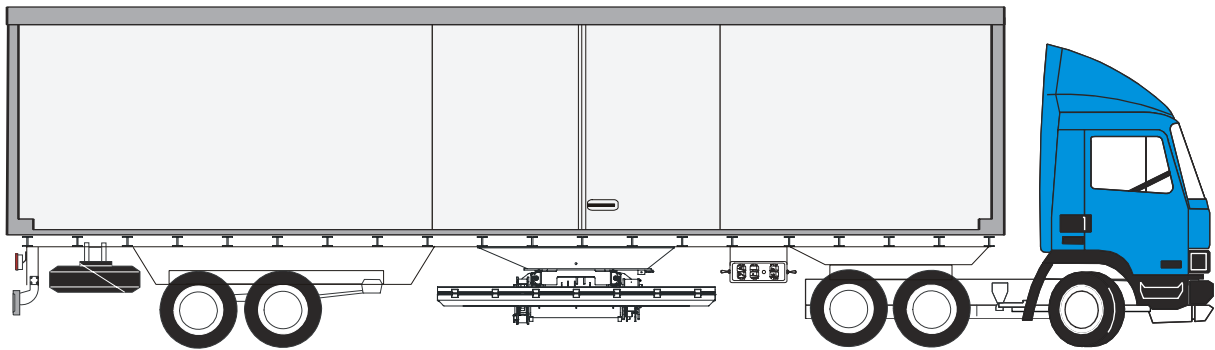
Standard Platform + 4"



Installation instructions

Installation of the electrical equipment

The installation of the electrical equipment should be done before the mounting of the Slidelift itself because at this stage it will be easier to do so (more space available).



schematic → page no.: 3

Connect the set "main circuit fuse" to the battery terminal clip at the positive pole of the battery. Connect the main circuit cable (positive from the main circuit fuse) to the pump box of the Slidelift. Connect it to the power relay. Connect the earth cable from the motor to the negative pole of the battery or, if authorized by the vehicle manufacturer, to the chassis at a scraped clean spot. Take the platform foot control cable along the lifting arm to the pump box and connect it according to the wiring diagram.

The mounting guidelines of the chassis manufacturer need to be complied with!

Slidelift Installation

The Slidelift is completely pre-mounted. The installation is fast and easy. Simply load the Slidelift onto a forklift truck or a pallet jack, drive it under the vehicle's chassis and adjust it according to the maximum vehicle measurements (see installation table underneath) in height and length.

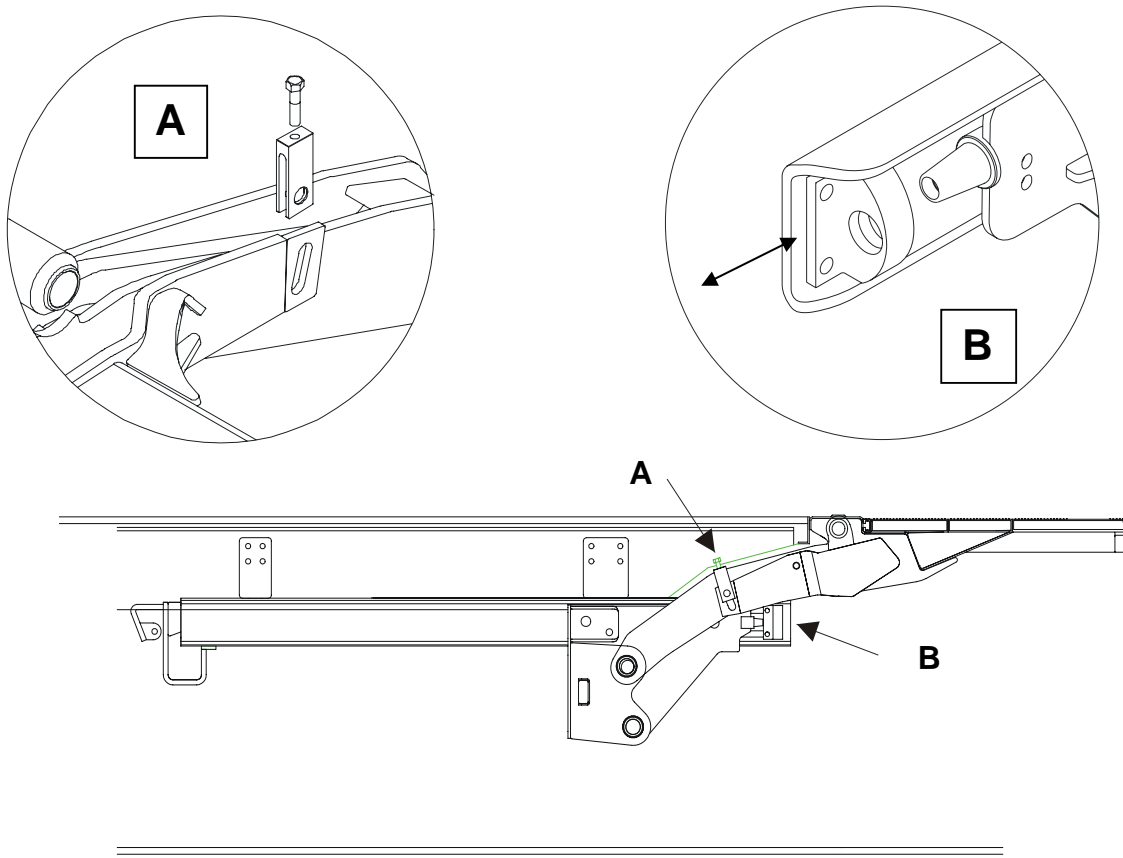
The Slidelift must be installed parallel to the truck's and/or trailers loading platform.

Weld the mounting plates located on beam 1 and 2 on both sides and in addition from underneath or from above on their full length.

If you obtained an installation drawing from Maxon Lift Corp. (serial number of the Slidelift stated on the drawing) the installation must be performed according to the measurements given with that drawing.

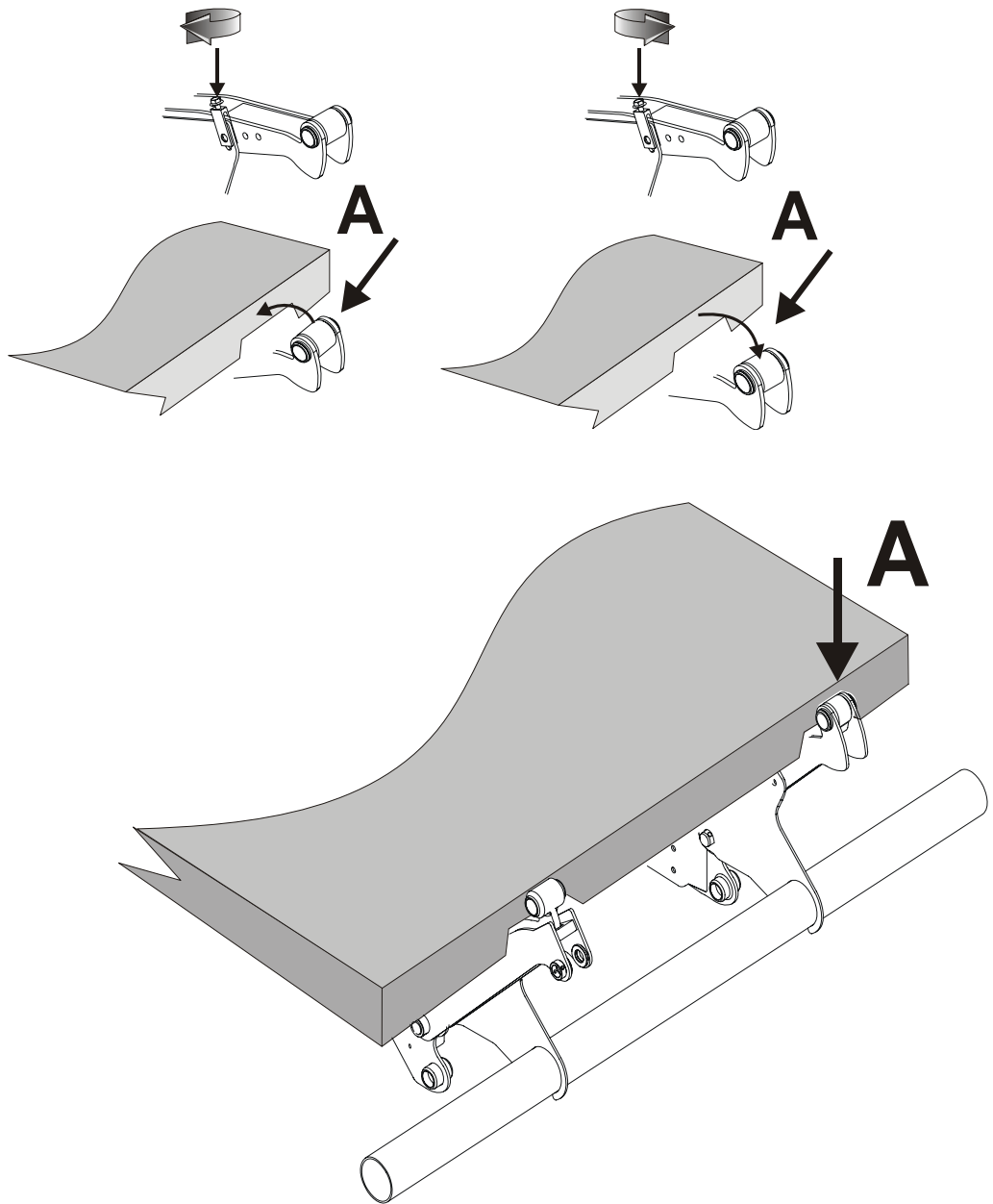
Finel adjustments of the platform to the vehicle bed (A):

ove the hoisting gear with the opened platform hydraulically behind the rear frame. For the adjustment, the lift arms are not to touch the rear frame. Between the rear frame and lift arms, there should be a space of 3/8". With the adjusting screws, the hoisting gear will be adjusted until try vehicle floor and the platform are parallel. After the adjustment, both screws of the anti-underride fastening are to be tightened.



Adjusting the liftheight (B).

After the installation of the Slidelift, please slide out the frame completely, lift the platform to the same height than the vehicle floor and, in that position, slide it back against the chassis frame of the vehicle. Then slide the stops on both sides against the sliding frame of the lift and secure them.



Warning

Welding

Prior to any welding operations, the battery and additional equipment such as anti-blocking and anti-slide controls are to be disconnected (see instructions given by the vehicle manufacturer).
For steel, please use E 5153 B 10 DIN 1913 as additional welding material.

Model	Joint thickness a min
GPSS 33-X1	¼"

Warning

The ground clamp of the welding device must be attached directly to one of the parts to be welded. Otherwise, the hydraulic cylinders may be damaged.

Operating the Slidelift

First operation

Check operation readiness. Check all moving parts for free move (no abrasion on hoses, cables, etc.). Check the hydraulics for leaks.

Hydraulic oil – recommendations

OIL SPECIFICATIONS

Grade ISO - (32)

Gravity, API - 29.5 Degrees

Pour Point, F - (-54 Degrees)

VISCOSITY

@ 40 Degrees C - 31.2 cSt

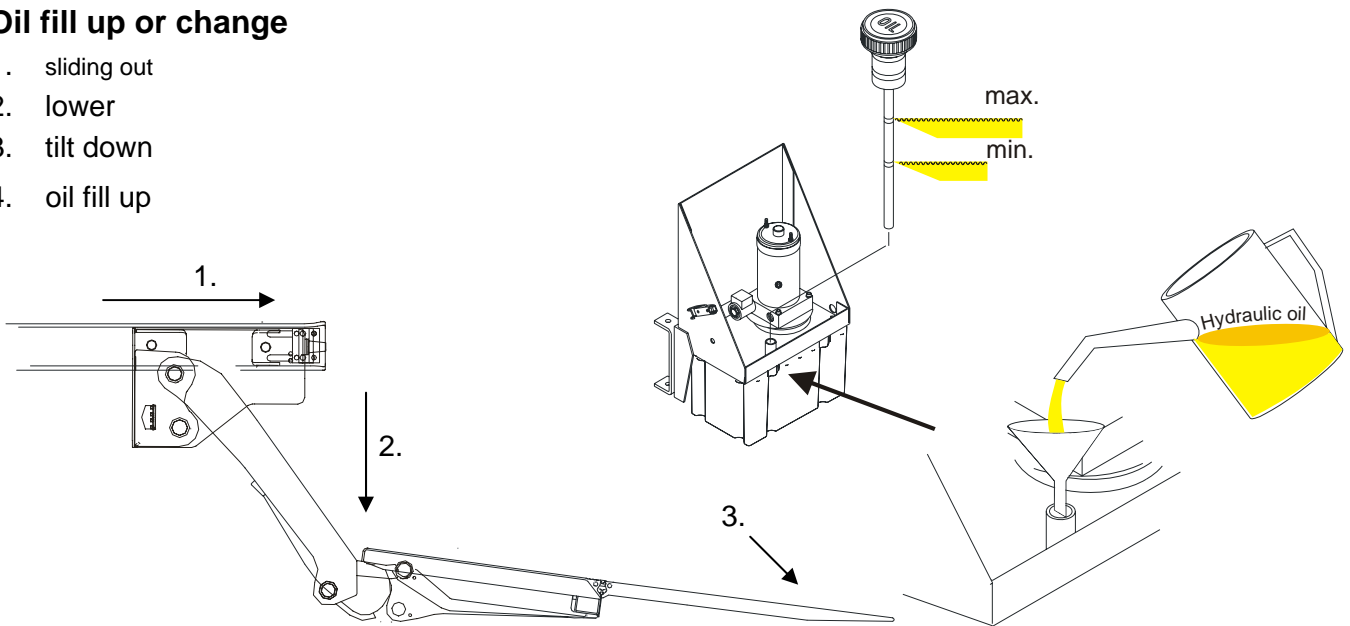
@ 100 Degrees C - 6.2 cSt

VISCOSITY INDEX - 154 VI

Flash Point, F - 325 Degrees

Oil fill up or change

1. sliding out
2. lower
3. tilt down
4. oil fill up



Painting the lift gear

The lift gear is powder-coated black. If another color is required, the bodybuilder or installer needs to provide for this. (Note that the powder-coated surface needs to be roughened before it can be painted.)

Warning

Please observe that the black cylinder rods need to be covered before they can be painted; remove color paint and covering material from the cylinder rods after painting. Otherwise, the Cylinder seals get damaged and the warranty will be void.

Operating information's

Stick "Operating Information" decal on the hand control box.

For problems please contact our Technical Service Department.

Load trial run

Static test

Move the platform vertically to the ground. Place a test load of up to 50% of the rated capacity within the loading distance onto the platform. The loading distance and the rated capacity are engraved on the identification plate which should be fixed to the Slidelift. The loading diagram shows the possible load when changing the loading distance. Test to capacity additional 5 times.

The installer must check the Slidelift for deformation after the static test.

Dynamic test

The functions lifting, lowering, and tilting are to be checked using loads as indicated in the loading diagram.

For problems please contact our Technical Service Department.

Check against lifting an overload

A test needs to guarantee that a load of more than 125% of the maximum rated capacity can not be lifted off the ground.

Safety device check

Let all functions reach their maximum points until the safety devices respond.

Prior to delivery to customer, make sure the platform carriage moves smoothly out without side to side interference and locks into the Quick Lock position. See page (8) for drawings.

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Torque table for all supplied and installed screws on Maxon liftgates

Screw Size	Tightening Torque in ft. lb	Screw Connections	Tightening Torque in ft. lb
8.8			
M4	2	G1/4"	29
M6	7	G3/8"	70
M8	17	G1/2"	96
M10	33	Connection Nuts	
M12	59	M16 x 1.5	44
M14	96	M18 x 1.5	44
M16	143	Plugs	
M20	283	G1/8"	11
		G1/4"	24
10.9		G3/8"	51
M12	85		
M14	132		
M16	202		
M20	398		
Y1 – Y3 – YA - YN - YM	18		
Starter Solenoid			
M8	8		

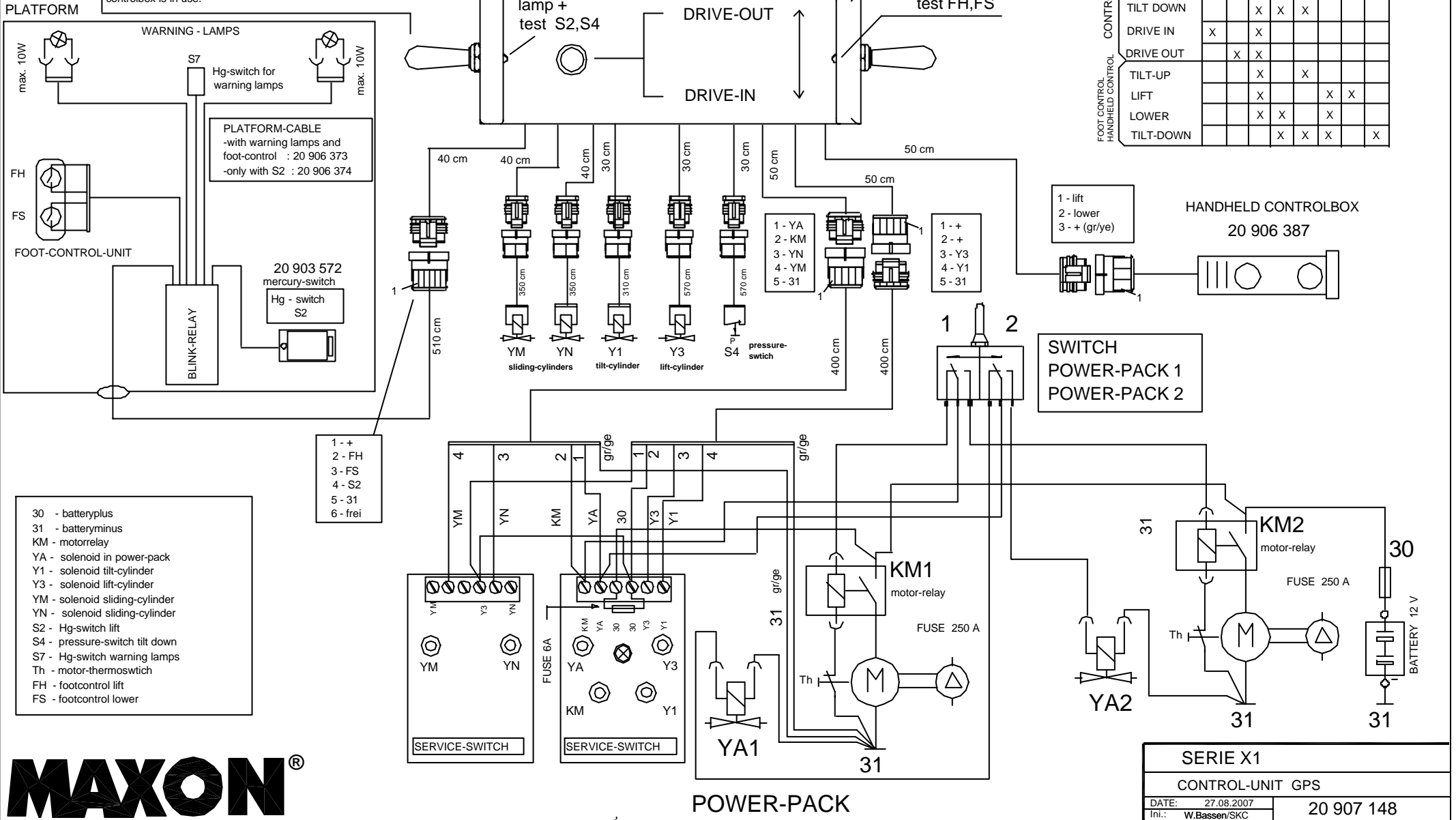
Battery Capacity

Model	GPS 33 X1
Size	2 groupe 31 - 12VDC - parallel

left lamp is out, if FH is pressed and S2 switched at horizontal platform position.
 left lamp is out also, if FS is pressed and S4 switched if platform is on ground (lift-cylinder is without pressure).
 right lamp is out, if foot switch FH or FS is pressed or handheld controlbox is in use.

20 906 378 CONTROL-UNIT GPS 12 V

	YM	YN	KM	YA	Y1	Y3	S2	S4
LIFT			X			X		
TILT-UP			X		X			
LOWER			X	X		X		
TILT DOWN			X	X	X			
DRIVE IN	X		X					
DRIVE OUT		X	X					
TILT-UP			X		X			
LIFT			X			X	X	
LOWER			X	X		X		
TILT-DOWN			X	X	X			X



- 30 - batteryplus
- 31 - batteryminus
- KM - motorrelay
- YA - solenoid in power-pack
- Y1 - solenoid tilt-cylinder
- Y3 - solenoid lift-cylinder
- YM - solenoid sliding-cylinder
- YN - solenoid sliding-cylinder
- S2 - Hg-switch lift
- S4 - pressure-switch tilt down
- S7 - Hg-switch warning lamps
- Th - motor-thermoswitch
- FH - footcontrol lift
- FS - footcontrol lower



SERIE X1	
CONTROL-UNIT GPS	
DATE:	27.08.2007
Ini.:	W.Bassen/SKC
20 907 148	