

User manual



1) General remarks

- * It is essential that you and any other operator of this product read and understand the content of this manual before installing and using this product !
- * In order to minimize operation errors, this manual must be accessible to the staff at all times.
- * The Hoverboard is only to be used as instructed. Please refer particularly to the user manual of the transport-stretcher.
- * Descriptions do not necessarily depict contents and are not true to scale.
- * We take no liability for damages caused by operating errors or incorrect assembly.
- * Please pay close attention to the country-related, applicable safety regulations for patient transfer.
- * Subject to technical changes.

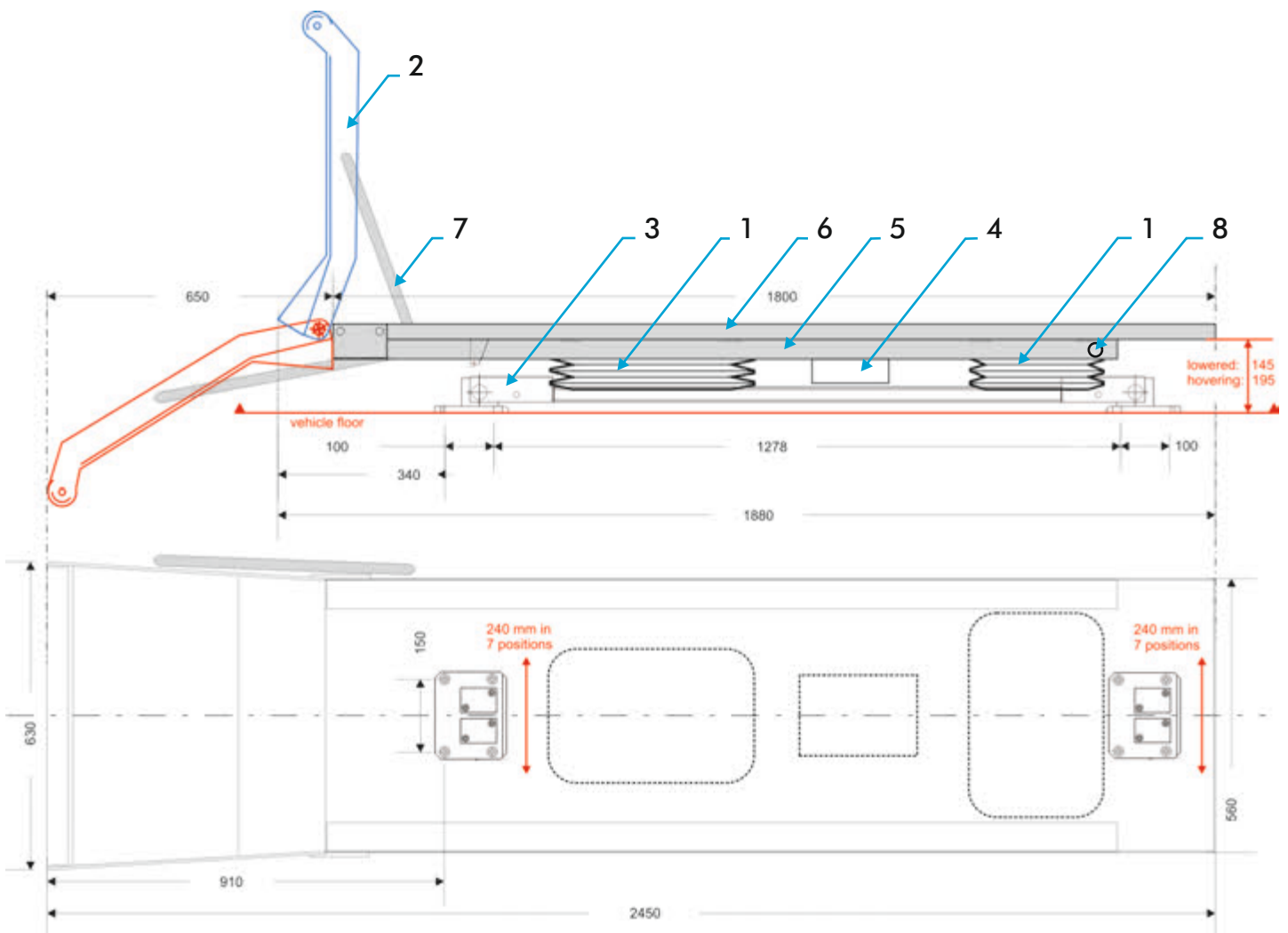
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2) Technical Data

- 1... Pneumatic suspensions with automatic weight adjustment from 40-250 kg and hydraulic shock absorber. Stroke distance 95 mm.
- 2... Tailboard (flap) with cylindric roller
- 3... Lateral movement device, adjustment range 240 mm in 7 positions
- 4... Switch box, contains:
 - a) compressor 12V DC, 25A with check valve and integrated thermal overload protector.
 - b) relay 12V DC
 - c) magnetic valves 12V DC
 - d) terminal block
 - e) noise insulation
- 5... Air pressure tank (3,5 litres) with pressure switch
- 6... Stretcher mounting panel
- 7... Gas spring
- 8... Main switch



Technical data (cont.)

- * Special Hoverboard system for assembly of Ferno F2 combined with Ferno's original fastening system.
- * System height: 145 mm (lowered)
195 mm operating height
- * The total height varies depending on vehicle specifications
- * Total length including closed loading ramp 1880 mm
- * Total weight 97 kg
- * Maximum loading capacity 250 kg (incl. stretcher)

- * Ignition AND main switch ON: Device ready
Ignition OR main switch OFF: Device lowered (eg. for reanimation)
- * Electric connection: brown = ground (wire no. 31)
red = positive (post-ignition) (wire no. 15)

- * Current demand max. 25 A at 12 Volt DC,
Compressor fused 30A
Control circuit fused 5A

3) Disinfection, cleaning and maintenance

- * Disinfection and cleaning of the Hoverboard are to be performed according to the regulations of the respective country.
- * The Hoverboard does not require further maintenance.
In case of faults or queries, please send a mail to

info@hover.at

- * For complete [repair instructions to download](#) please refer to

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4) Starting up

- * After successful assembly and electric connection, start ignition of vehicle and turn on the main switch (8).
- * The compressor will fill the air supply tank (5) to approx. 8,2 bar within about 3 minutes and the Hoverboard is ready.
- * The Hoverboard works automatically --> when the air pressure has lowered to approx. 7,5 bar, the compressor starts automatically for approx. 1 minute again. This allows constant operating pressure.
- * By opening the loading ramp (2) and/or turning off the ignition, the Hoverboard is automatically lowered to allow an easy and energy-efficient loading and unloading.
- * For correct loading and unloading please refer to the instructions of the Ferno F2 stretcher. Pay attention to the correct locking of the stretcher on the Hoverboard.
- * For reanimation, the main switch (8) is to be turned off, the Hoverboard will lower immediately.
- * For moving the Hoverboard left or right, please press one of the pedals in front.

CAUTION !

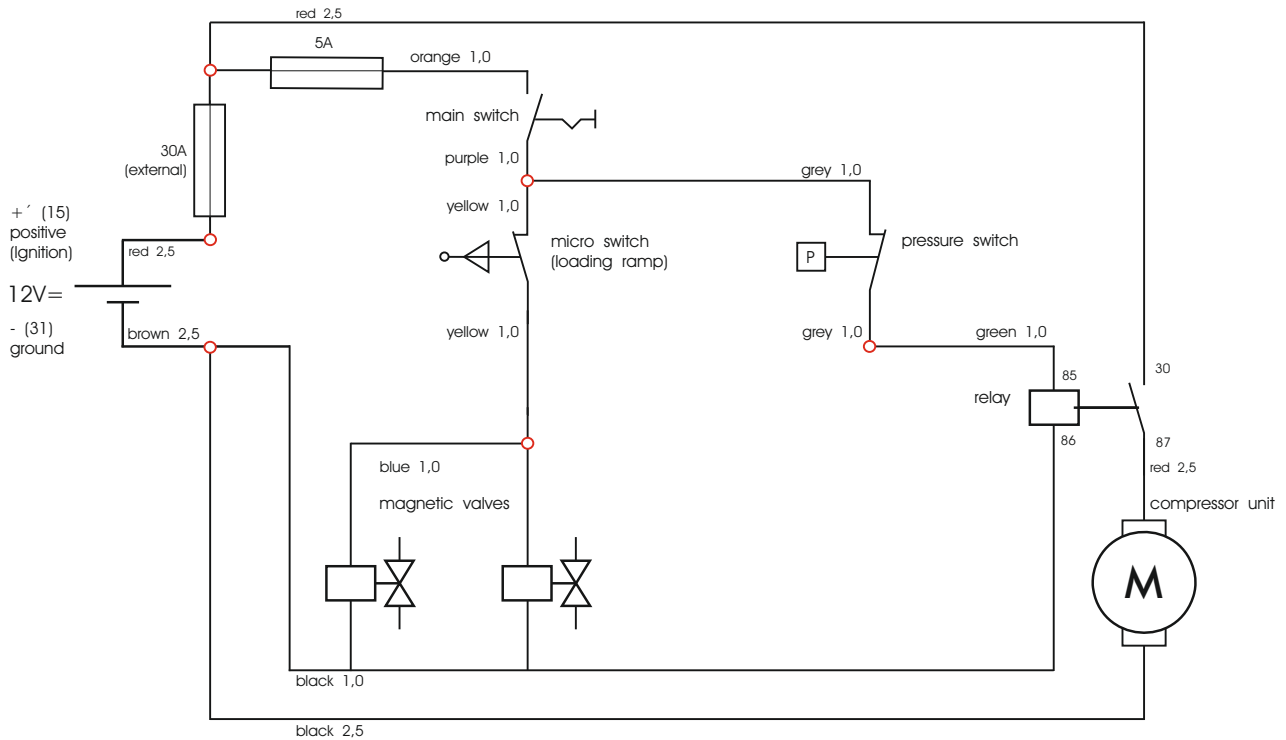
**The stretcher should always be held
when opening the loading ramp !**

**If you have any questions or suggestions,
don't hesitate to contact us**

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Have always a good trip with your new

Circuit diagram



Connection layout

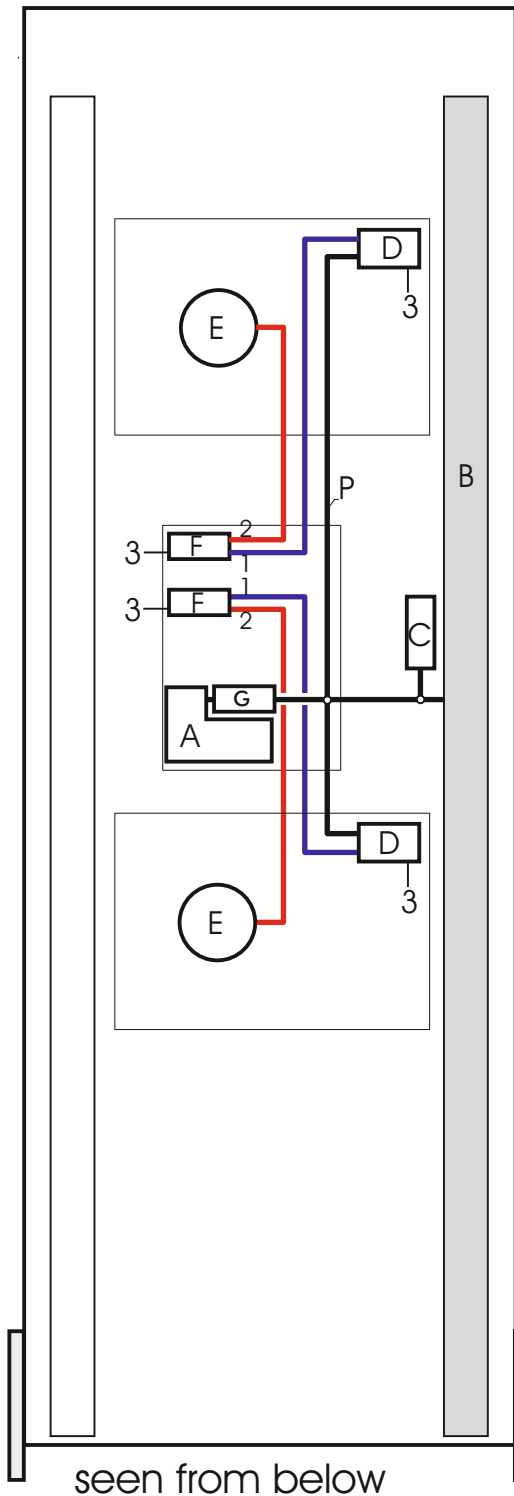
target	colour	cross-section	target	colour	cross-section
micro switch	yellow	1,0	magnetic valve	blue	1,0
check valve	blue	1,0	magnetic valve	blue	1,0
micro switch	yellow	1,0	relay (85)	green	1,0
check valve	black	1,0	pressure switch	grey	1,0
jumper			pressure switch	grey	1,0
jumper			main switch	purple	1,0
relay (86)	black	1,0	magnetic valve	black	1,0
main switch	orange	1,0	magnetic valve	black	1,0
compressor	red	2,5	compressor	black	2,5
relay (87)	red	2,5	ground	brown	2,5
relay (30)	red	2,5	fuse 5A	red	1,0
			fuse 5A	red	1,0
			positive 30A	red	2,5

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Pneumatic connection

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tube colours

Red = working circuit
Blue = inter-valve-circuit
Black = supply circuit

Parts

A... compressor

B... air supply tank

C... pressure switch

D... level control valve

E... air cushion

F... magnetic valve

G... check valve

P ... pressure supply

1... magnetic valve > supply

2... magnetic valve > working press.

3... air release

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Spare parts

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30205 compressor set



30063 pressure switch,
pre-finished



30050 magnetic valve
pre-finished



30270 air fitting set



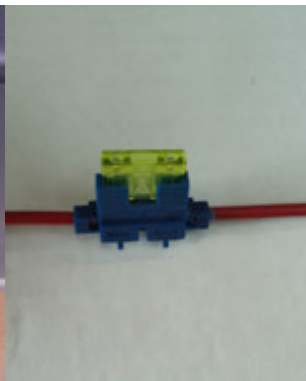
30122 cylindric caster
610 mm



30071 micro switch



30263 main switch



30251 fuse holder
30253 fuse 5A



30520 relay

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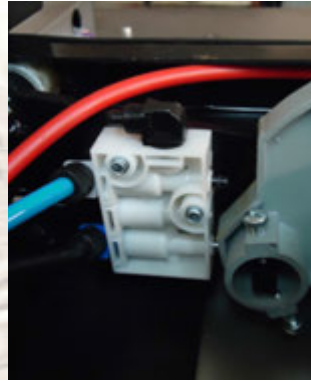
Spare parts

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30100 air suspension
pre-finished
30080 bellows



30290 level control valve



30310 air cushion



30300 shock absorber



30113 gas spring 450 N
(Crafter)



30114 gas spring 300 N
(Sprinter 4x4)



50114 ramp bracket right
50115 ramp bracket left



50116 ramp bracket right
50117 ramp bracket left



30341 bushing

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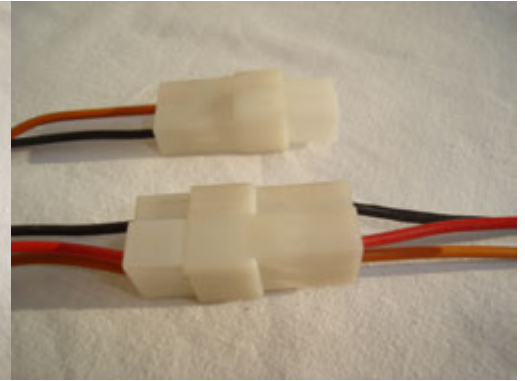
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30220 noise insulation box



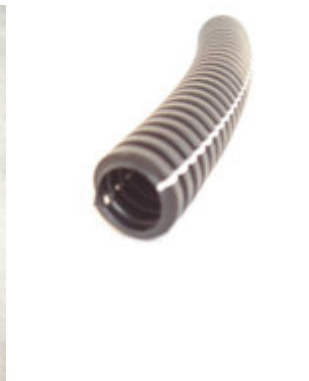
30140 rubber buffer



30500 connector 2 wires



30170 terminal block



30150 wire protective tube



30361 plug 60 x 40



30240 pressure hose red

30241 pressure hose blue

30242 pressure hose black



30243 thermal protective tube



30400 button 6 mm

30401 button 8 mm

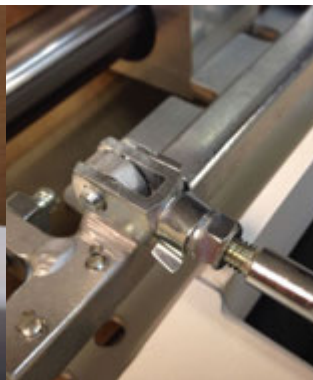
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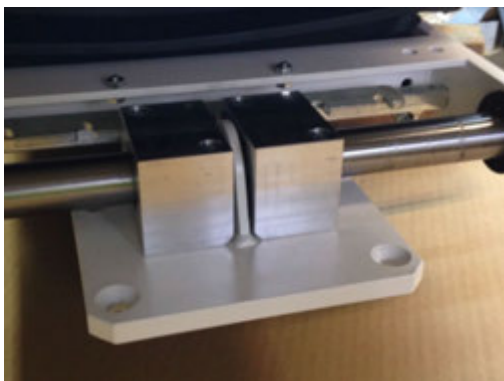
30540 pull spring



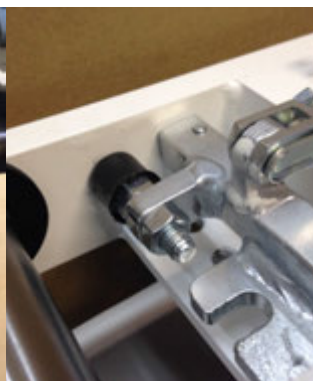
30550 adjustment fork



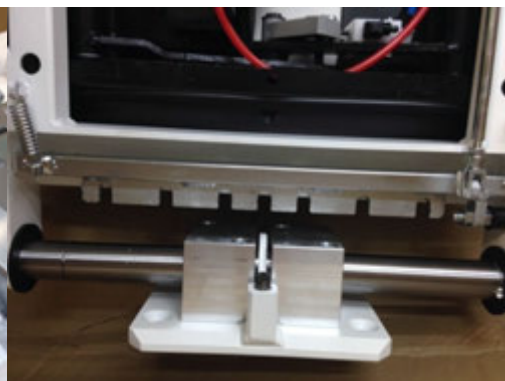
30560 connecting rod



30570 bearing block



30580 stop bolt



30590 toothed rack



30600 pedal rubber
