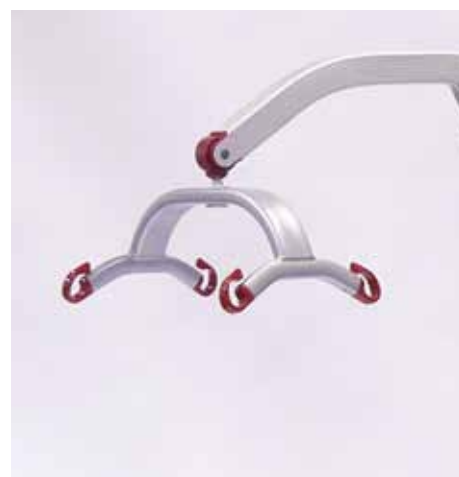


TECHNICAL MANUAL

Molift Mover 180



Etac AS
Etac Supply Gjøvik
Hadelandveien 2
N - 2816 Gjøvik

molift[®]
by Etac

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Etac AS, Etac Supply Gjøvik

Hadelandsveien 2

2816 Gjøvik, Norway

Teleph: (+47) 40001004

www.molift.com

Fax: (+47) 40001008

molift@etac.com

General Advice

This technical manual contains important information about the lift, including safety precautions. Study the manual carefully before handling and repairing the patient lift.

Explanation of Symbols

A① Refers to Appendix A, Position 1. on figure.



This symbol appears in the manual next to information related to workplace safety, and when a potential risk for injury to personell may occur. Always follow all these instructions and be extra observant and careful.



This symbol refers to important information about the correct use of the equipment described in this manual. Failure to take notice of the information may lead to functional faults or damages to the equipment.



This symbol highlights information, which is especially useful. If instructions are followed, you may be able to use the equipment more efficiently. The information simplifies work tasks or explains complicated facts.

Safety Precautions

Repair of the lift involves lifting and handling objects, which are heavy, long and/or sharp. Assembly or disassembly of parts may affect the stability of the lift, and this creates a risk that it may topple over or collapse.



Read the operator manual and follow general safety precautions.

Disclaimer

Etac Supply Gjøvik does not accept responsibility for damages and functional faults if the instructions in the manual have not been followed. Claims covered by the warranty should be made immediately after a deficiency has been discovered, and marked with the serial number of the lift and any identification number to the service personnel. Normal wear is not covered by the warranty.

All technical information, data and instructions in this manual was completely up-to-date at the time this manual was sent for printing. The manual was compiled on the basis of our experience and to the best of our ability and intentions. We reserve the right to make technical modifications in connection with further development and improvement of the product described in this manual. Claims may therefore not be based on information, illustrations and descriptions contained in this manual.

We do not take responsibility for any kind of damages and faults wich occurs from unintended use related to failure to follow the manual or insufficient maintenance. We want to emphasize that only Molift spare parts and equipment approved by us may be used.

For safety reasons, the installation and use of unapproved spare parts or equipment, and unauthorised modification and alteration of the product is not allowed. Etac Supply Gjøvik does not accept responsibility for damages caused by such.

With the exception of indirect damages, Etac Supply Gjøvik takes responsibility for faults and deficiencies of the product within the scope of what is described in the purchase agreement. Claims for damages are excepted, regardless of whatever legal foundation such claims may be based on. Only the documentation related to the product is valid.

If safety directions or other regulations described in this manual have not been followed, the conformity declaration (CE declaration), delivered with this product in accordance with the Directions for Medical Equipment (93/42/EØF), is considered invalid.

Technical Description

Main Components

The lift is delivered in three main parts:

1. Chassis with legs.
2. Lifting arm and column with battery holder and electronics.
3. Suspension.

Chassis and Legs

The chassis **B**① is made of steel. The adjustable legs are made from aluminium profiles and are attached to the chassis with a leg parting mechanism and a motor **B**⑪.

Column and Battery Holder

The column **C**③, placed in the holder on the chassis **B**①, is an aluminium profile. There is an operation handle and a battery holder on the column. The battery holder contains all the electronics and the control card.

The lifting arm **C**① is suspended at the top of the column and can be raised and lowered.

Electronics

The electronics consists of a PCB (printed circuit board) **F**⑤ with remote control, emergency stop and emergency lowering, battery and service lights. All functions rely on the control card. The control card has a counter, which registers the number of seconds with activity. After a certain time, it signals to activate the service light to inform the user that the lift needs service. An electric emergency lowering switch **E**⑭ is located above the stop switch. In case of power failure the electric emergency lowering will not work and the manual emergency function on lifting motor **C**⑦ must be used.

Battery

The battery **A**④ is placed in the battery holder and consists of 12-cell NiMH battery pack.

Arm and Suspension

The lifting arm **C**① and suspension **A**③ are of aluminium. The lifting arm is suspended on the column. A motor **C**⑦ operates the lifting arm. The suspension **A**③ has 2 or 4 safety hooks for the sling. The coupling has a locking pin to make suspension substitution easy.

Hand Control Unit

The hand control **A**⑤ has four buttons for lift operation; "up", "down", "legs out" and "legs in". A light indicates when the battery needs charging. The remote control socket is located at the bottom of the battery holder.

Charger and Battery

Molift Mover 180 runs on a battery consisting of a 14,4 V battery pack **A**④. The Battery is charged in a table top charger **A**⑥ or with an integrated charger on the lift. With table top charger one battery can be charged while another operates the lift.

Technical Specifications

Empty weight, total:

excl. battery and suspension: 32 kg / 70,5 lbs
 Chassis: 16 kg / 35 lbs
 Lift column: 16 kg / 35 lbs
 Battery: 0,85 kg / 1,9lbs
 Suspension: 0,9 kg / 2 lbs

Material:

Aluminium, steel and plastic composite

Motors:

Lift motor: 12 VDC
 Leg adjustment motor: 12 VDC

Battery:

14.4 V NiMH 2.2 Ah,
 20 A fuse (ATO Fuse)

Battery charger:

Mascot 2215,
 10-22 cells NiCd/NiMH

Casing:

IP24

Number of lifts with fully charged battery:

50 (75 kg, 50 cm / 165 lbs, 19,7 inches up/down)

Safe Working Load (SWL):

180 kg / 400lbs

Lifting range:

1360 mm / 53,5 inches
 min/max: 370-1730mm / 14,5-68 inches

2 point suspension min/max lifting range:

370-1730mm / 14,5-68 inches

4 point suspension min/max lifting range:

270-1630mm / 10,6-64,2 inches

Lifting speed:

46 mm/sec / 1,06 inches/sec (With 75kg / 165 lbs)

Sound level, max A-weighted sound power level:

$L_{WA} = 49.4$ dB

Key force:

Buttons on handset: 3.4 N

Leg height:

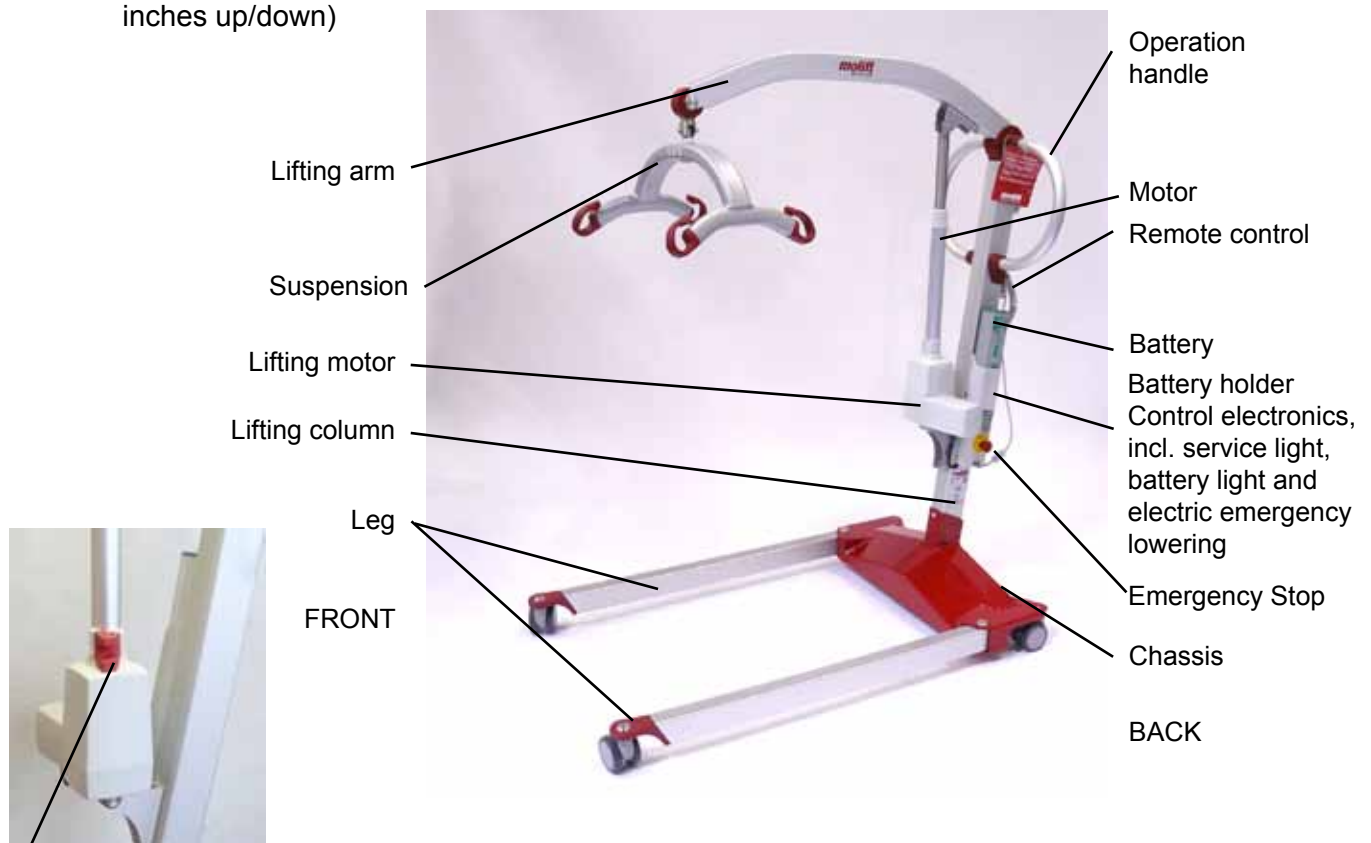
Max. 115 mm / 4,52 inches

Turning circle:

1350 mm / 53,15 inches

Dimensions:

1250 x 695 x 1270 mm /
 49,2 x 27,36 x 50 inches (LxWxH)



- Operation handle
- Motor
- Remote control
- Battery
- Battery holder
- Control electronics, incl. service light, battery light and electric emergency lowering
- Emergency Stop
- Chassis
- BACK
- Lifting arm
- Suspension
- Lifting motor
- Lifting column
- Leg
- FRONT

Manual emergency lowering Mover 180

Service

Molift Mover 180 is a mobile lift with few parts and require low maintenance. By following the regular service regulations, you will enjoy Molift Mover 180 for many years. Service can only be carried out by authorised personnel.

In addition to the required service, Etac Supply Gjøvik recommends regular inspections to detect unforeseen damages and faults. A checklist for periodic inspections is found in the User Manual.

Notice of Service

The lift has a service light on the battery holder, which indicates when service is needed. Green light indicates normal status. The electronics registers the loads and use of the lift. After a certain time of operation, a signal will give a warning that service is needed. The light will turn yellow, then red. The lift may still be used, but order service from your local service partner. An additional buzzer indicates when the lift needs service urgently.



Use the Molift Service tool and read the lift data and number of lifts. The Molift Service tool is also used for resetting the service light after service.

Service

Service should be carried out when the service light indicates so, or at least every five years.


- Replacing the motor must be performed when service lamp gives signal.
- Replace worn and damaged parts.

If you have any questions regarding service and maintenance, please contact your local service partner/dealer or Etac Supply Gjøvik.

All repair and service on the lift must be logged for each lift. After service and/or repair, the lift should be checked using the Inspection diagram on page 15.

The owner of the lift is responsible for storing information regarding inspections, service and repair.

Cleaning

 *Detergents should be pH-neutral. Do not use solvents or other strong fluids, which may damage or ruin outside surfaces or change the characteristics of lift materials. If disinfection is necessary, use isopropyl alcohol. Avoid using abrasives and corrosives.*

Clean the outside with a damp cloth and suitable detergent.

Troubleshooting

If the lift is not functioning, first check that the power supply is in order. Then check the battery light, and that the service light is not indicating a need for service. See the troubleshooting table in the user manual.

Should the troubleshooting table not yield a fault diagnosis, use your judgment and a process of elimination.



Use only original spare parts from Etac Supply Gjøvik.

Repair



Remove the battery before maintenance to make sure the lift does not move unintentionally.

Replacing Motor

You will need:

- Loctite 243 or similar
- Special tool, Allen key x 2
- Hot air gun

Procedure

- Remove the suspension.
- Remove column with lifting arm from chassis and put it on a worktop.
- Dismantle connector (27) from column, and unplug both wires for motor.
- Remove both allen screws holding battery support (24). This will make it possible to pull motorcable out of the hole in the column.



Heat the screw/bolt to loosen the Loctite. Limit the heat to as small an area, and as low temperature, as possible.



The motor will be disconnected, and may fall down during the next steps. Secure the motor to prevent this.

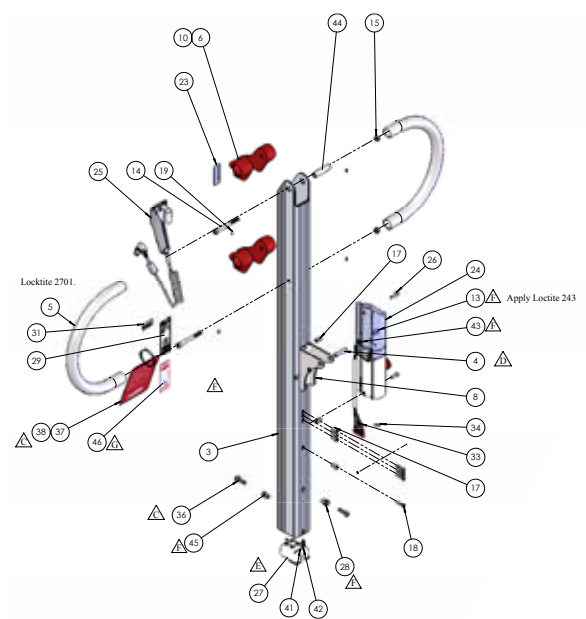
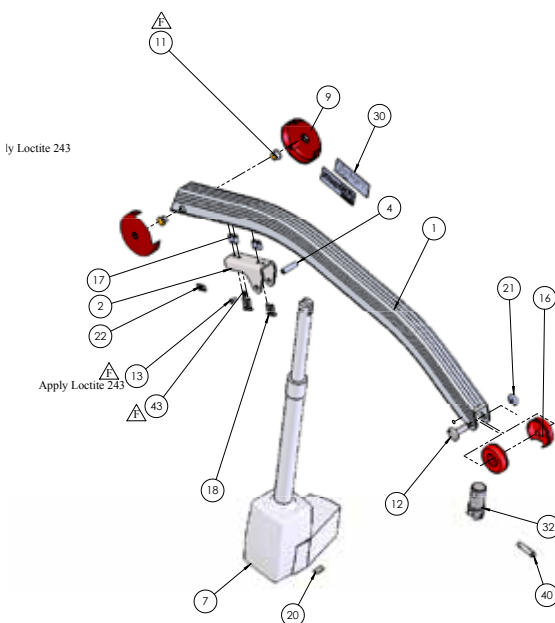
- and carefully remove them by press/knock.
- Remove the motor and put it down gently.
- Install a new motor (7). Be careful to install with motor housing turned the right way.
- Mount the bolts.
- Use Loctite 243 or similar on the screws and tighten.
- Insert motor cable through hole in column behind batteryholder. Connect both wires for motor to connector (27). Refer to Electrical diagram.
- Mount both allens screws for battery support (24). The battery support works as a strain relief for the motor cable. Make sure that cable is strain relieved.

Disassembly of arm

- Remove the suspension.
- Remove column with lifting arm from chassis and place it on a worktop.
- Disconnect the motor by unscrewing the screw (13) and remove the bolt (4), which holds it to the bracket.
- Remove the handle by drilling out the rivet. Gently knock the handle off the column.
- Remove nuts and bolts (14,15) on upper and lower bracket for handle.



The parts are loose and may fall apart.



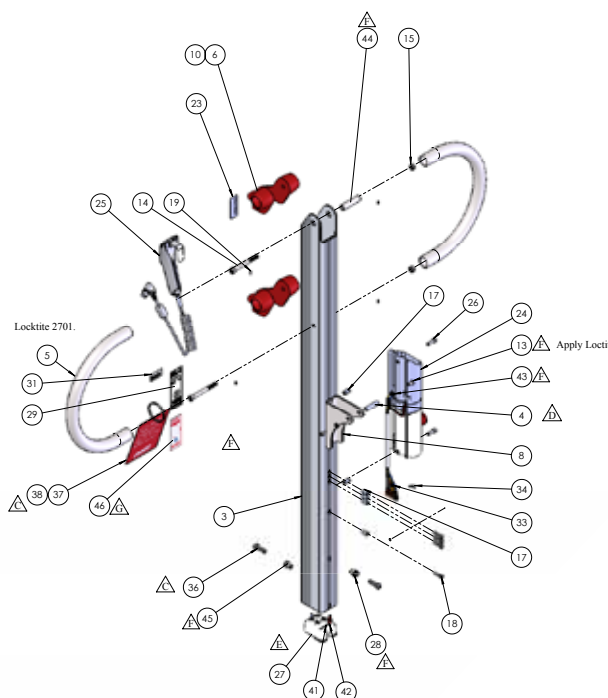
- Loosen lower and the upper screw (14) at the column using the Allen Key.
- Push both bolts (4), or use a bolt or similar

- Remove the bolt (44) holding the arm to the column.
- Remove special bolt and nut (12,13)

- Take out the bulb and fork (16,32). Remove Use a punch carefully on the inside to separate the covers (16).

Disassembly of Column

- Remove the lifting arm, drive handles and motor as described in disassembly of lifting arm.
- Disconnect and remove connector (27)
- Remove battery holder (24).
- The column can now be replaced; assembly is done in the opposite order.

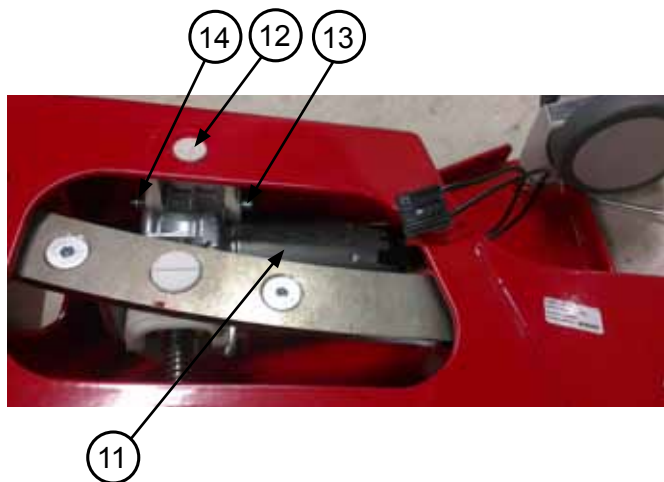


Replacing chassis parts

i Position the legs in centre for best access to chassis parts during disassembly.

- Remove column with lifting arm from chassis by removing 2x Allen screws and put it sideways in a safe place.
- Place the chassis on a work stand.

Disassembly of Leg Parting Motor



- Loosen the leg parting motor (11) from the bracket (12) by removing screws (13) and nut (14).

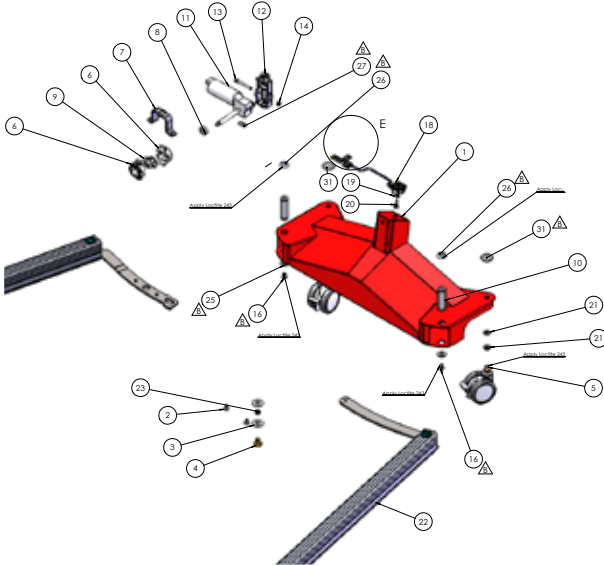
i External power is needed for running the motor out of the spindle nut.

! Make sure fingers do not get caught when running the leg parting mechanism.

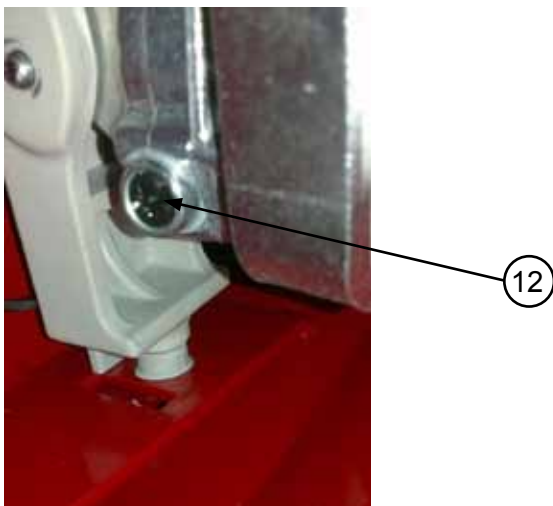
- Remove the leg parting motor wire, and connect external power, 12 V. Motor wire connector has a snap hook. Use flat tip screwdriver or similar to release.
- Run the leg parting motor inwards until the spindle is free from its nut.

! WARNING! Do not run the legs to the end positions as the end stop does not work.

- Remove the motor and disconnect external power.
- The bracket (7), nut holder (6) with spindle nut (9) can be removed by loosening the screws (2). Heat the screws to loosen.



- The bracket (12) is removed by turning it until the pin goes into the slot, and then gently pulling it out.



Assembly of Leg Parting Motor

- Mount spindle nut (9) and nut holder (6) to bracket (7). Put Loctite 241 on the screws

(2).

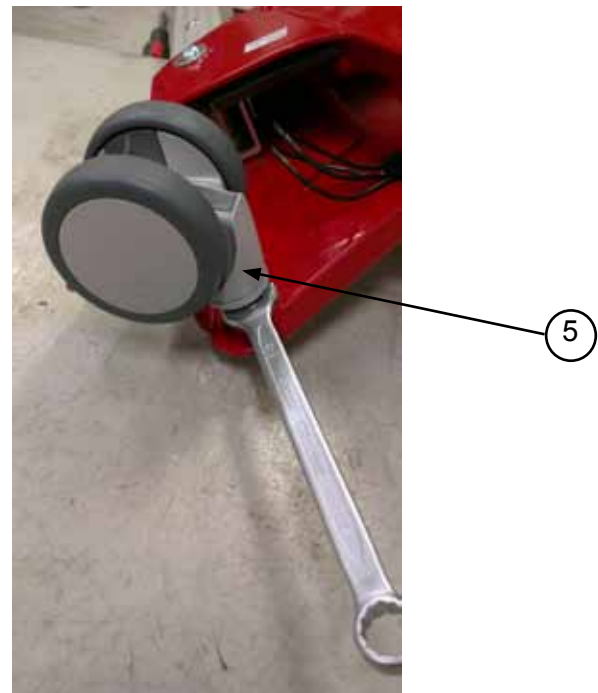
- Mount the bracket (12) by placing flange into slot. Lift and turn it into place.
- Place the motor (11) in the correct position. Connect external power and run the spindle out until it fastens to the spindle nut (centred on the spindle).
- Fasten the leg parting motor to the bracket with screw (13) and nut (14).
- Connect the power wire to the motor.
- Mount column with lifting arm on chassis.
- Perform a safety test on the lift.

Wheels

i Place the lift in a stable horizontal position. Remove column and suspension for easy handling.

Back Wheel

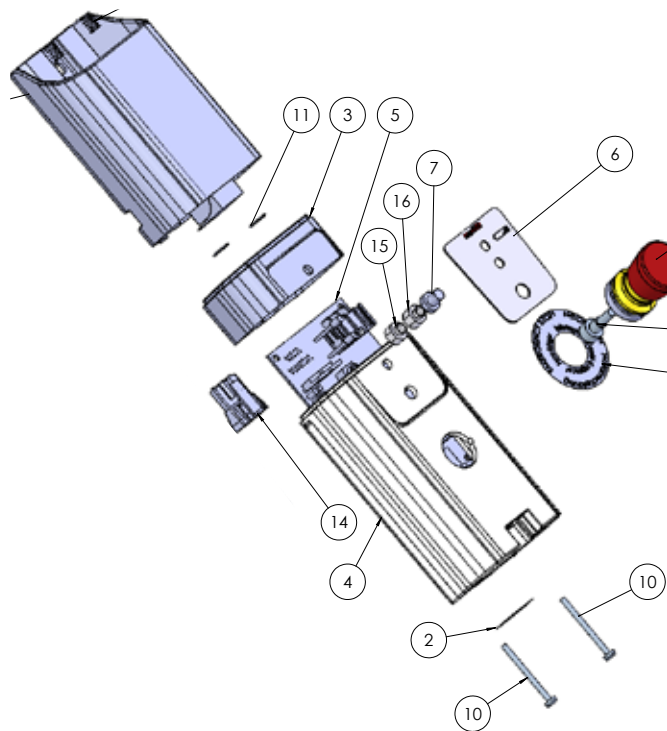
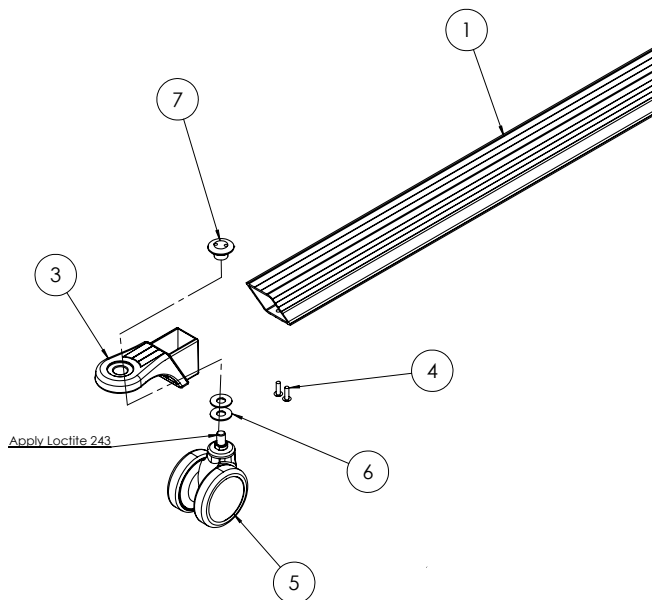
- Loosen the wheel (5).



- Assembly is done in the opposite order. Use Loctite 2701 on the bolt on the wheel.

Front Wheel

- Special tool is required to remove nut (7). Use heat to loosen the special nut from wheel (5).
- Use Loctite 241 on the screw of the new wheel and mount it.



- Gently pull out the control card and loosen wires (5).



Watch the extensions for the emergency lowering switch.

Control Card



The control card may only be replaced if all the data can be copied over from the old card to the new one. If copying is impossible, the lift should be sent to Etac Supply Gjøvik.


- Copy the data from the card using the Molift Service tool. Connect lift and copy to PC. Connect the new control card and copy from PC to card according to the instruction.
- Remove battery and lifting arm with suspension and place the column on a worktop.
- Loosen connector **C27** and disconnect wires.
- Remove both screws **C26** and dismantle battery holder with wires from column.
- Loosen membranes (6) and open battery holder by loosening screw (10) and removing the upper and middle part.

Replacing Emergency Stop Switch

- Loosen the emergency stop switch from the inside. Watch the extension, end piece and nut.
- Pull out the emergency stop switch.
- Mount a new emergency stop switch and secure it with the nut.
- Make sure the extension, end piece and washer are correctly placed on the card in relation to the switch.

Mounting of Control Card

- Remove the piece of paper on the card's buzzer before mounting the card.
- Connect all wires and place the card in the battery holder.

 *Check that all LED are correctly positioned in the LED guides.*

- Mount the extensions for the emergency lowering switch.
- Put the upper part of the battery holder into place.
- Place battery in the holder and check light/buzz.
- Place a new membrane on the battery holder.
- Mount column with lifting arm on chassis.
- Perform a safety test on the lift.

Marking

Check all markings/stickers - replace any damaged markings/stickers.

Inspection Diagram after Service and Repair

Molift Mover 180

- The lift has been visually checked for damages, faulty function and deformation, and it is in order. Checked that the suspension has no cracks or other damages.
- The lift has no loose parts, and correct mounting. The column is locked with both allen screws to chassis.
- Remote control works. Wire and socket for remote control are undamaged.
- Suspension can easily be disassembled / assembled.
- Lift run all the way up and down several times without load. Lift functions are in working order without abnormal noise. End stop works. Test repeated with a load of around 100 kg.
- Leg parting mechanism run all the way in and out several times without load. End stop works and legs travels easy both ways. Test repeated with a load of 100 kg.
- Emergency stop and lowering (electric and manual) checked and working.
- Battery light is green and there are no lights on service lamp.
- Marked lift with safety sticker with month/year and certificate number for completed safety inspection. Inspecting person must sign safety sticker and this diagram.

During service:

- Used the Molift Service tool and read the lift data and noted number of lifts. NB!: Write down "Sum" from right-hand column. This shows total number of lifts (equiv. to class 2 lift/15 sec) and remaining lifts until next service. NB!: The service light must ONLY be reset after completed service!

No. of lifts (Sum): _____ Service completed: _____

- Service is completed (always when service light is on): - Replaced the suspension. Replaced lifting motor. Checked visually for damages. Worn, damaged or malfunctioning parts, are replaced. See description for parts replacement. Use the Molift Service tool and read the lift status and service data.

- Completed safety inspection after service.

- Service light was reset using Molift Service tool. NB!: The service light must ONLY be reset after completed service!

Inspection, repair and service should be done by a person certified by, or on behalf of Etac Supply Gjøvik.

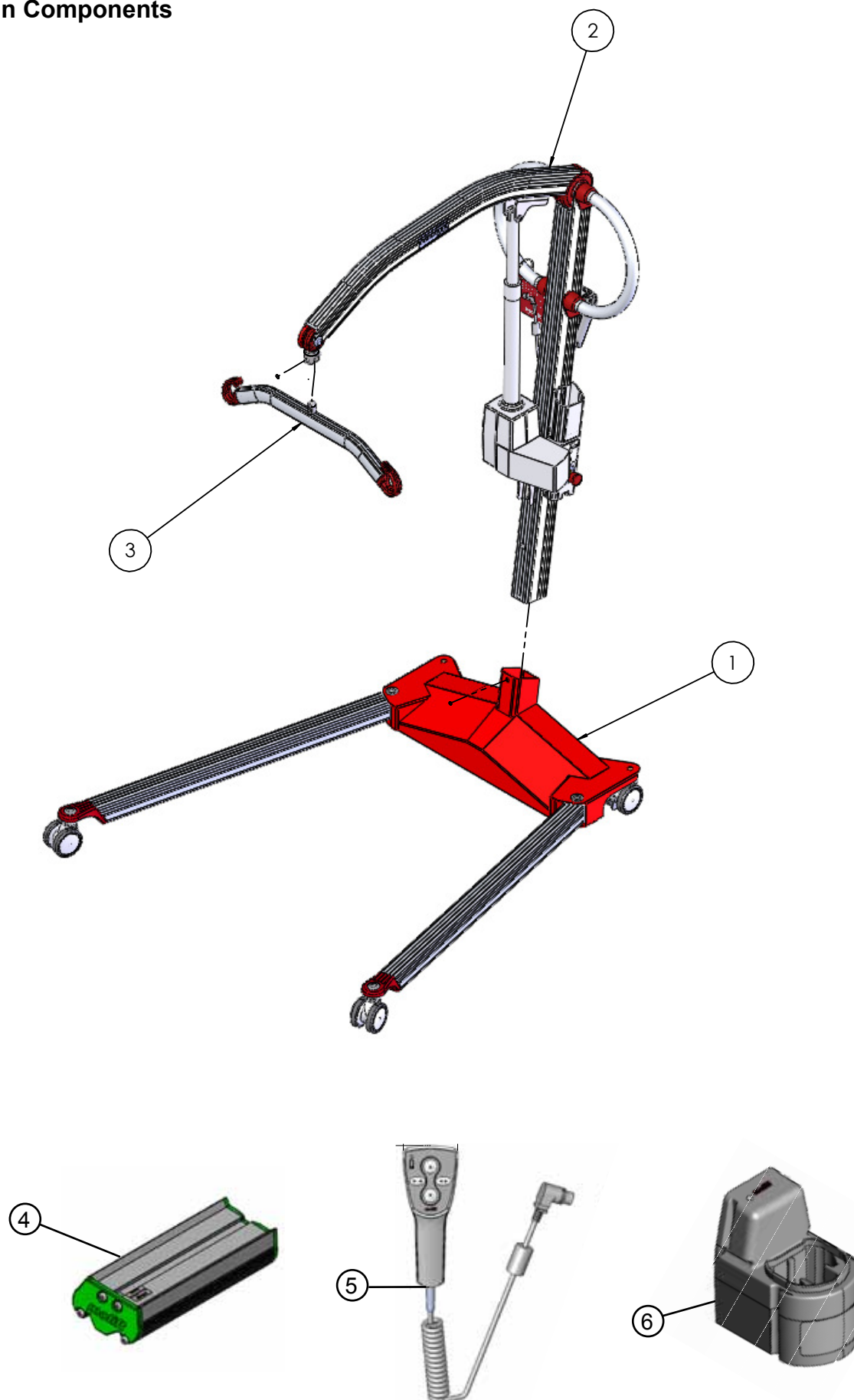
Client: _____ Serial number of lift: _____

Date: _____ Signature: _____

Appendix A

Pos.	Item no.	Qty.	Description
			Molift Mover 180
1	18200001	1	Chassis assy
2	1810001	1	Coloumn assy
3	1830001	2	2-pt suspension Large
	1830002		2-pt suspension Medium
	1830003		2-pt suspension Small
	1830011		4-pt suspension Medium
	1830010		4-pt suspension Large
4	0541000	1	Battery 14,4 V NiMH PowerPac
5	2018004	1	Hand Control 4 Buttons
6	1340100	1	Battery Charger

Main Components



Appendix B

	Item no.	Qty.	Description
1	1820021	1	Chassis welded
2	1320206	2	Screw DIN 7991
3	1320123	2	Washer, Nylon
4	1320122	1	Bolt
5	1320108	2	Wheel
6	1320116	2	Nut holder 1/2 part
7	1320114	1	Bracket Leg spreading P205/255
8	1320131	1	PUR ring
9	1320117	1	Nut spindle
10	0910151	2	Bolt for leg, Smart
11	1320150	1	Motor
12	1320118	1	Sviwel joint
13	1320208	1	Screw DIN 912
14	0228125	1	Nut, Lock DIN 985
15	1820058	1	Right leg assy
	0228125	1	Left leg assy (wheel Ø100)
	1820049	1	Right leg assy (wheel Ø100)
16	1101534	4	Screw ISO 7380
17	1120320	4	Washer DIN 9021 ø8,4xø24x2 Elzn
	0220121	4	Washer DIN 9021
18	1820024	1	Lower contact assy
19	1820025	2	Disc-Spring-SF-TAF-4256-DIN2093
20	0540508	1	Screw, Pan Head
21	0220122	4	Washer DIN 125
22	1820059	1	Left leg assy
23	0228138	1	Bushing bronze 5MM
24	1820040	1	Cardboard Box
25	1820041	1	Cardboard Inlay
26	0910158	2	Screw M6 Special
27	1310308	1	Label, Purchase no.
28	1320132	1	AMP-contact
29	1320133	1	AMP-cover
30	1420112	2	Cable contact
31	1820065	2	Safety Walk

Left leg

2.1	1820055	1	Leg profile
2.2	1810057	1	Flat bar left
2.3	0910199	1	Wheel Bracket
2.4	0920212	2	Rivet Dowel 4,8X18 TIDA 4818TP
2.5	0920107	1	Wheel Ø75
2.6	1120312	2	Fender washer
2.7	0910153	1	Nut, Special M10
2.8	0910180	2	Bushing, Flanged TFF 20115
2.9	1410118	2	Monobolt ø6,4x19

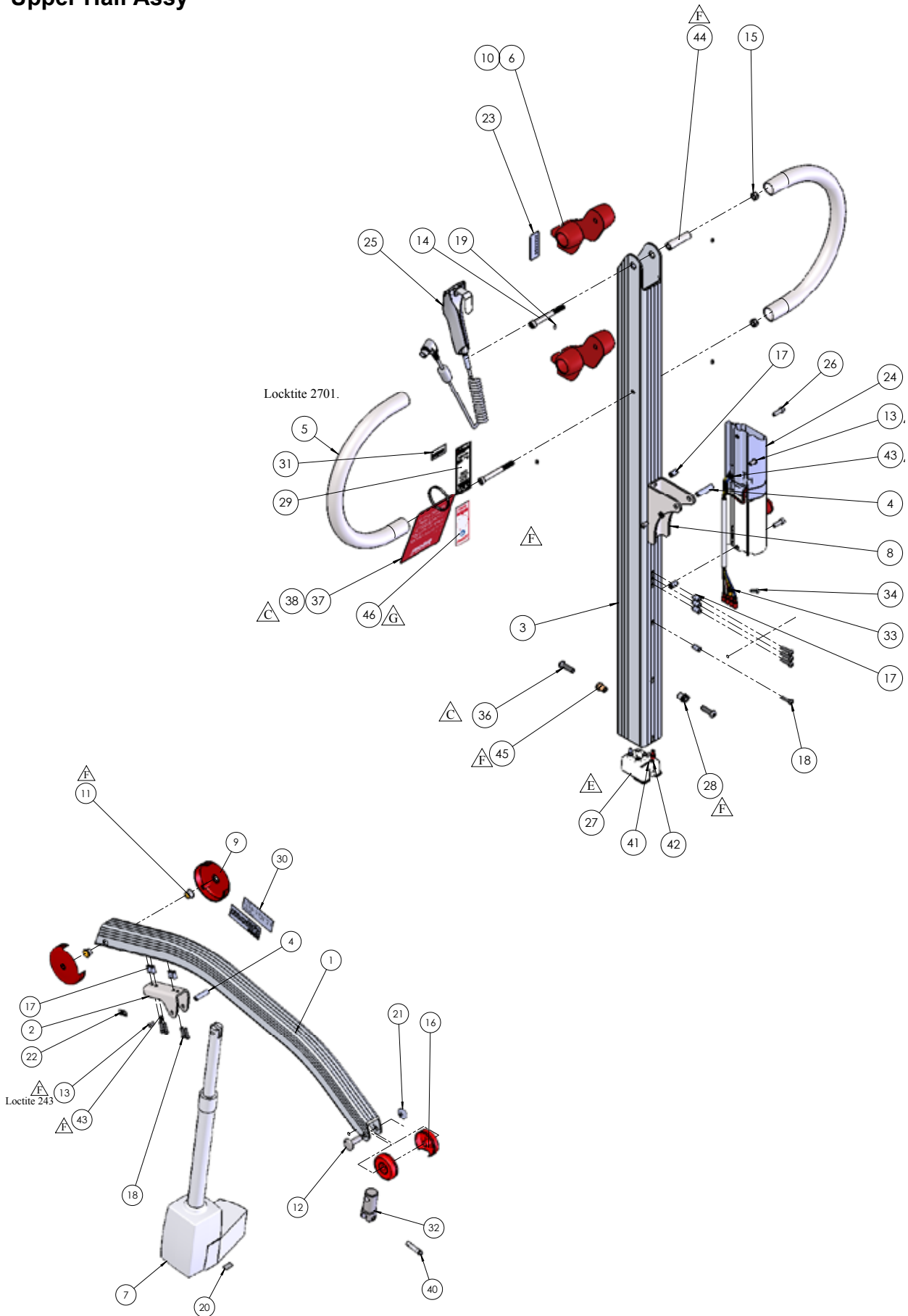
Right leg

3.1	1820055	1	Leg profile
3.2	1810056	1	Flat bar right
3.3	0910199	1	Wheel Bracket
3.4	0920212	2	Rivet Dowel 4,8X18 TIDA 4818TP
3.5	0920107	1	Wheel Ø75
3.6	1120312	2	Fender washer
3.7	0910153	1	Nut, Special M10
3.8	0910180	2	Bushing, Flanged TFF 20115
3.9	1410118	2	Monobolt ø6,4x19

Appendix C

	Item no.	Qty.	Description
1	0910124	1	Lifting arm for Linak LA 34
2	1820028	1	Motor Bracket Upper
3	1820011	1	Column
4	0910159	2	Bolt For Actuator
5	0910107	2	Drive handle, Smart/205
6	1820030	2	Push bar sleeve
7	0920115	1	Actuator LA34
8	1820029	1	Motor bracket lower
9	0910197	2	Plastic cover arm/column Smart
10	1220339	1	Pop-Rivet DIN7337 ø4x16 Al/st.
11	0910181	2	Bearing, Flanged PAF 25115-P10
12	0910136	1	Bolt w/head
13	2150404	4	Screw, Buttonhead
14	0920201	2	Screw DIN 912
15	1150414	2	Nut, Lock DIN 985
16	0910196	2	Plastic cover, arm/susp, Smart
17	0920216	10	Rivet Nut
18	0920202	8	Screw ISO 7380
19	0232103	4	Spirol Pin
20	1310306	1	Label, Art. Nr. Brady 25,4x12,7
21	0910158	1	M6 Special Screw
22	1820014	1	Label, SWL 180 kg
23	0210305	1	Label: Slinglabel (XXS-XXL)
24	1820060	1	Battery Support Mover 180
25	2018004	1	Handcontrol, 4 button
26	0220120	2	Screw DIN 912 8.8 ELZN
27	1820020	1	Upper contact assy.
28	1820018	1	Rivet Nut
29	1820016	1	Label
30	1820015	2	Label Molift Mover 180
31	0421135	1	Decal: ID,no
32	1820017	1	Fork bolt
33	0920119	1	Wire Anchorage 6,4mm 55-022-16
34	0540508	1	Screw DIN7981C
35	1820019	1	EI diagram Mover 180
36	1101535	2	Pan head screw ISO 7380
37	0920011	1	Product tag
38	0910012	1	Strips natural
39	1120505	1	Allen Key Hexagon Socket
40	1810010	1	QR-Bolt
41	1820063	1	Cable Connector Male
42	1410135	1	Cable Connector Female
43	0220121	4	Washer
44	0910160	1	Sleeve for Column Smart
45	1820064	1	Rivet Nut Countersunk
46	1100303	1	Periodic control label

Upper Half Assy



Appendix D

2 Point Suspension Small

	Item no.	Qty.	Description
1	1820035	1	Suspension Nut Machined
2	1820038	2	Set Screw
3	1820037	2	Flange bearing
4	1820036	1	Bolt
5	0228125	2	Lock nut
6	1410140	2	Composite Hook Suspension
7	1410152	1	Mid Profile 340
8	1431011	2	Set screw M4x6 DIN 914
9	1820014	1	Safe working load
10	1310306	1	Art. and ID. no

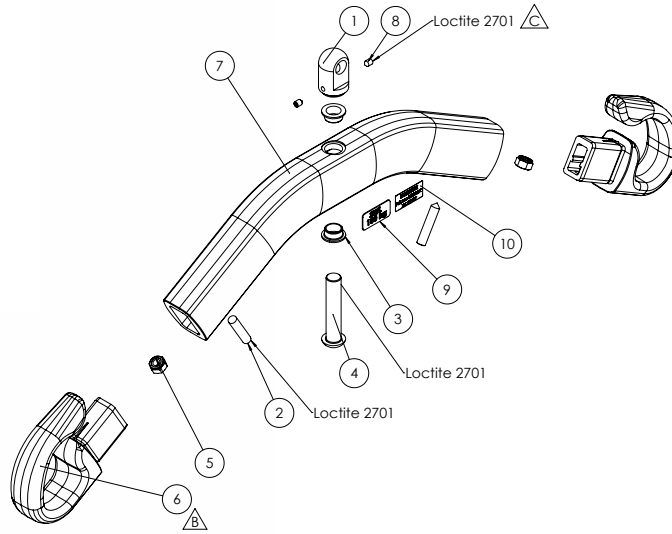
2 Point Suspension Medium

	Item no.	Qty.	Description
1	1820035	1	Suspension Nut Machined
2	1820038	2	Set Screw
3	1820037	2	Flange bearing
4	1820036	1	Bolt
5	0228125	2	Lock nut
6	1410140	2	Composite Hook Suspension
7	1410151	1	Mid Profile 440
8	1431011	2	Screw, Set DIN 914
9	1820014	1	Safe working load 180 kg label
10	1310306	1	Art. and ID. no

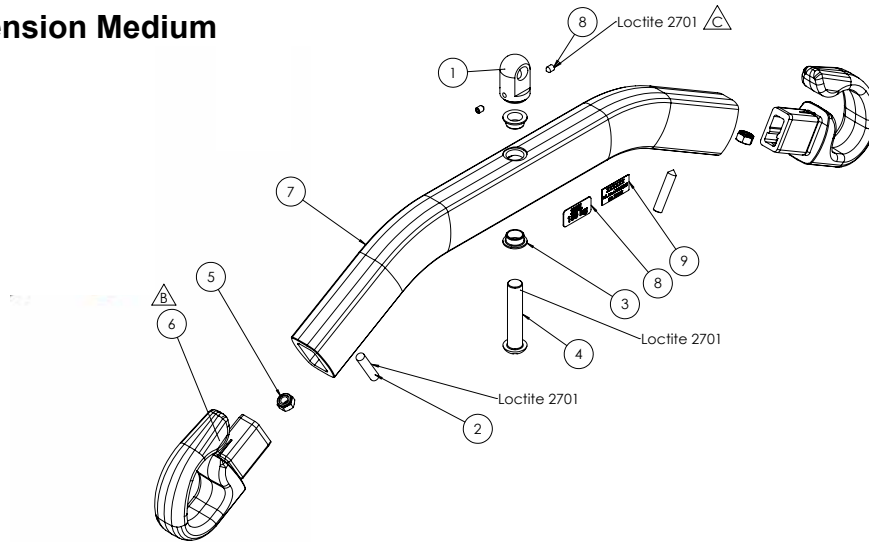
2 Point Suspension Large

	Item no.	Qty.	Description
1	1410150	1	Mid profile 540 2-pt Suspension
2	1820035	1	Suspension bolt
3	1820036	1	Bolt
4	1820037	2	Flange bearing
5	1820038	2	Set screw
6	0228125	2	Nut, Lock M6
7	1410140	2	Hook
8	1431011	2	Set screw M4x6
9	1820014	1	Safe Working Load 180 kg label
10	1310306	1	Art. and ID. no

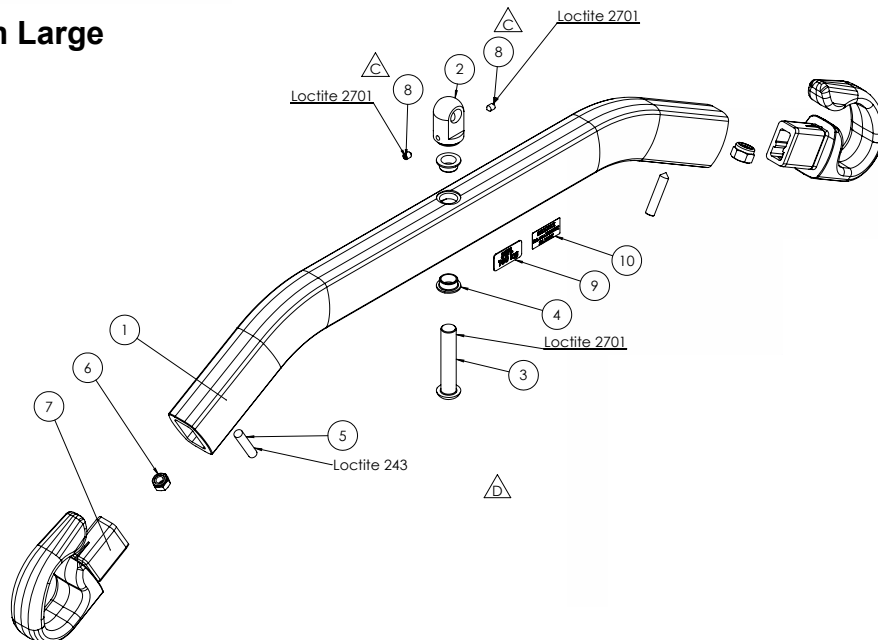
2 Point Suspension Small



2 Point Suspension Medium



2 Point Suspension Large



Appendix E

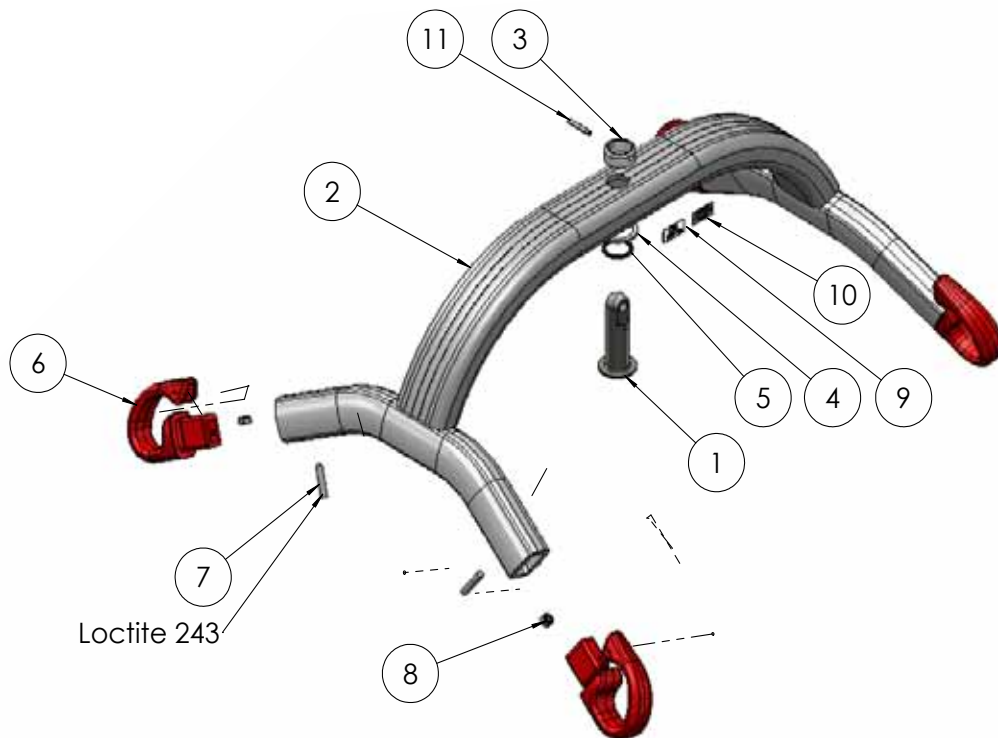
4 Point Suspension Large

1	1820042	1	Bolt
2	1410142	1	Suspension welded
3	1820043	1	Cover
4	1820044	1	Ring
5	1820045	1	O-ring
6	1410139	4	Composite hook suspension
7	1820038	4	Set Screw ISO 4027 M6x30 N
8	0228125	4	Nut, Lock DIN 985 M6 Elzn
9	1820014	1	Safe Working Load 180kg label
10	1310306	1	Art. and ID.no
11	0210119	1	Spring Pin DIN 1481 4 x 26

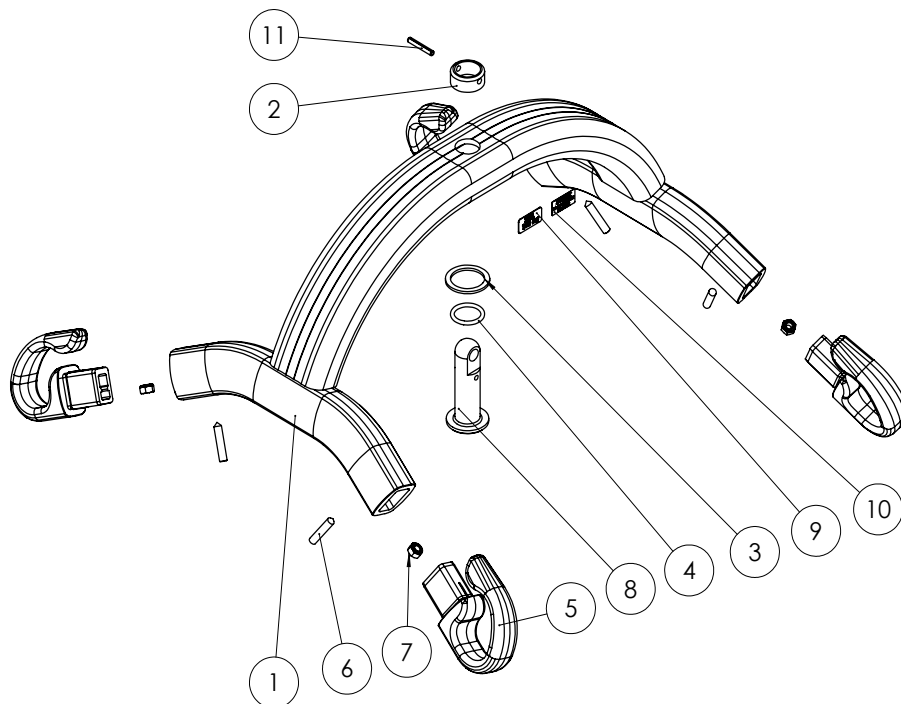
4 Point Suspension Medium

1	1410141	1	Suspension welded
2	1820043	1	Cover
3	1820044	1	Ring
4	1820045	1	O-ring
5	1410140	4	Composite hook suspension
6	1820038	4	Set Screw
7	0228125	4	Lock Nut
8	1820042	1	Bolt
9	1820014	1	Safe Working Load 180kg label
10	1310306	1	Art. and ID.no
11	0210119	1	Spring Pin

4 pkt suspension large w coupling



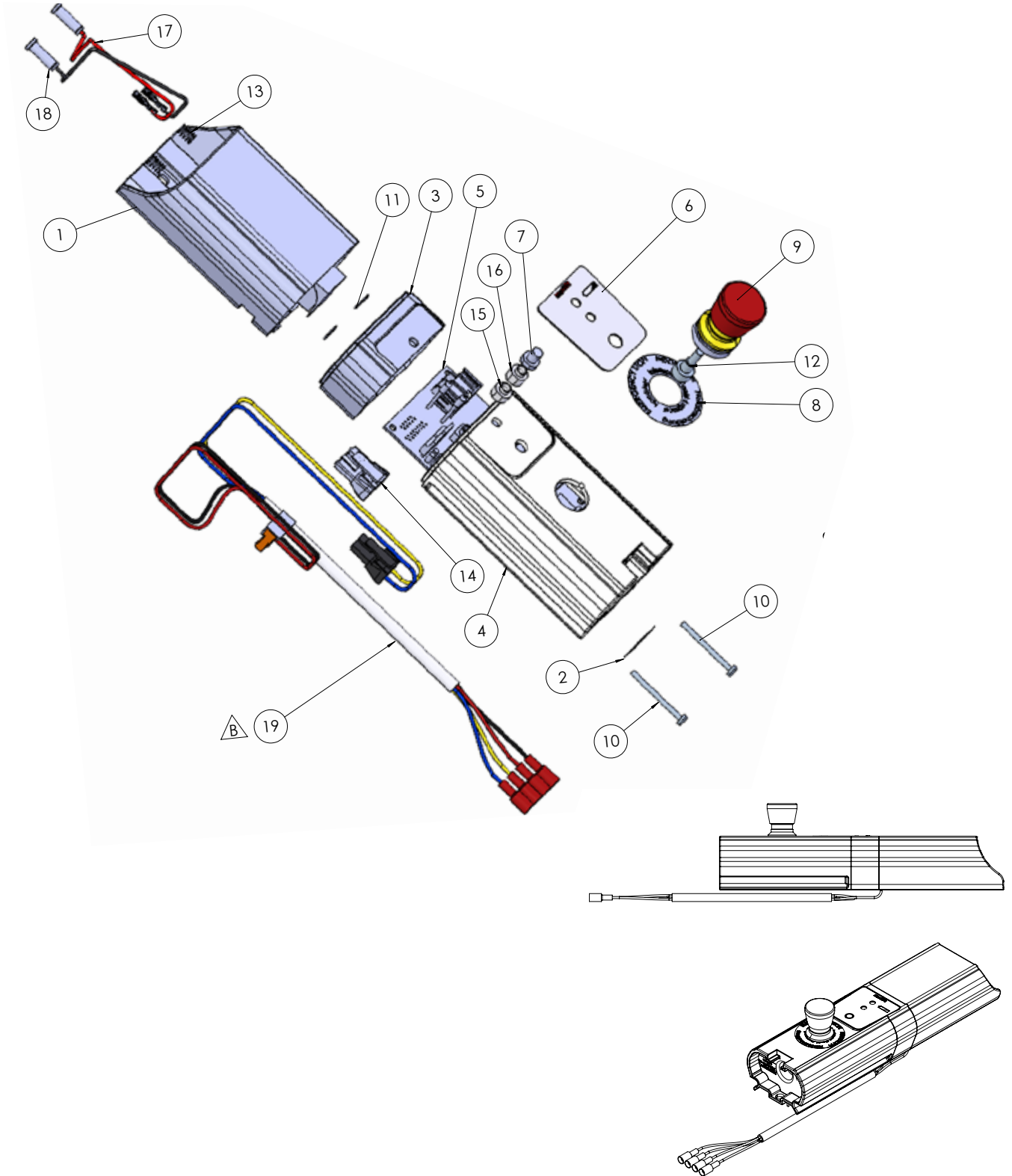
4 pkt suspension medium w coupling



Appendix F

	Item no.	Qty.	Description
1	0920063	1	Upper mould battery support
2	1310308	1	Label, Purchase no.
3	0920064	1	Middle mould battery support
4	0920065	1	Lower mould battery support
5	1320112	1	Main PCB
6	1310122	1	Membraenpanel
7	1310136	1	Mec Cap
8	0220307	1	Label emergency stop
9	0920114	1	Emergency switch
10	0920066	2	Plastic screw
11	0920094	2	Circlip DIN 6799
12	0920067	1	Emergency stop extender
13	0920068	2	Spring battery probes
14	0920069	1	Molex plug
15	0920077	1	Mec extender, 6mm
16	0920079	1	Mec extender, 7mm
17	0920092	1	Battery cable red (+)
18	0920093	1	Battery cable black (-)
19	1820061	1	Cable harness Mover 180

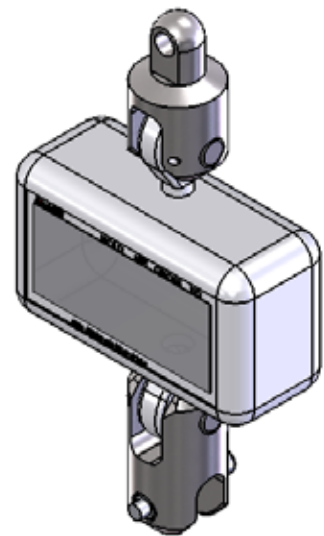
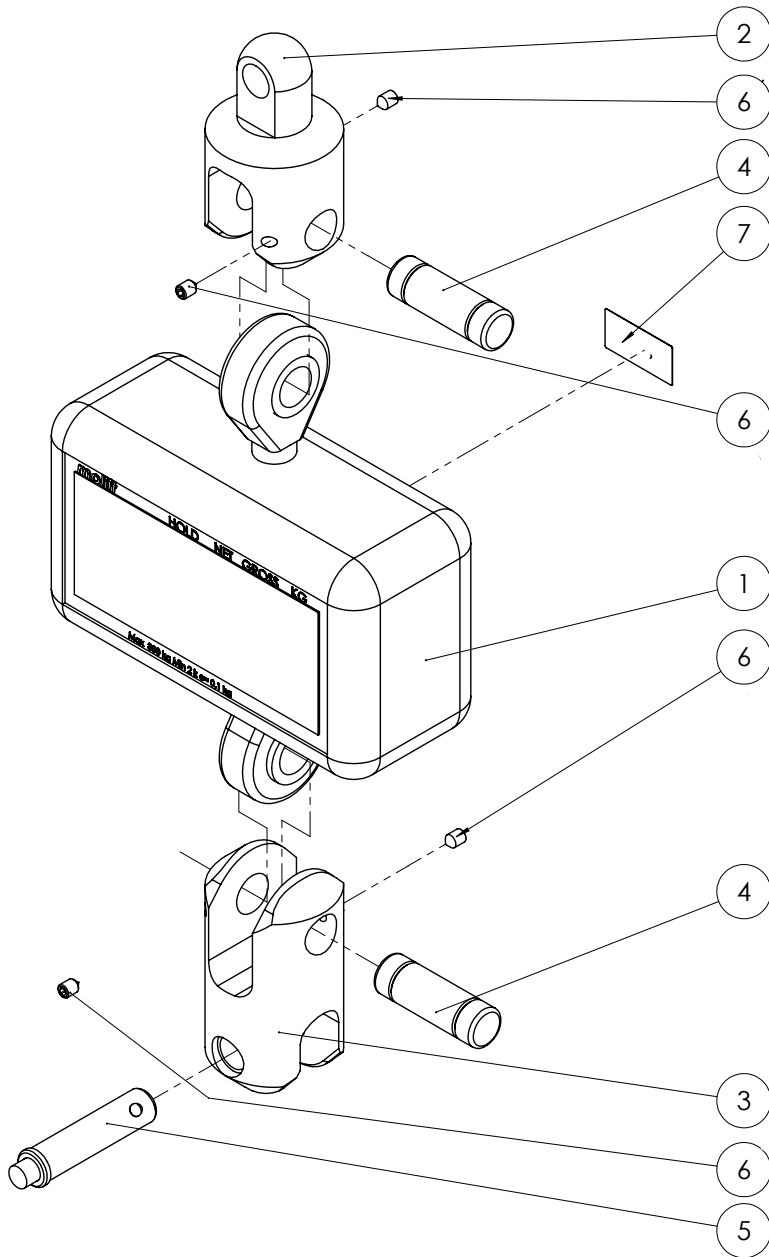
Battery Support



Appendix G

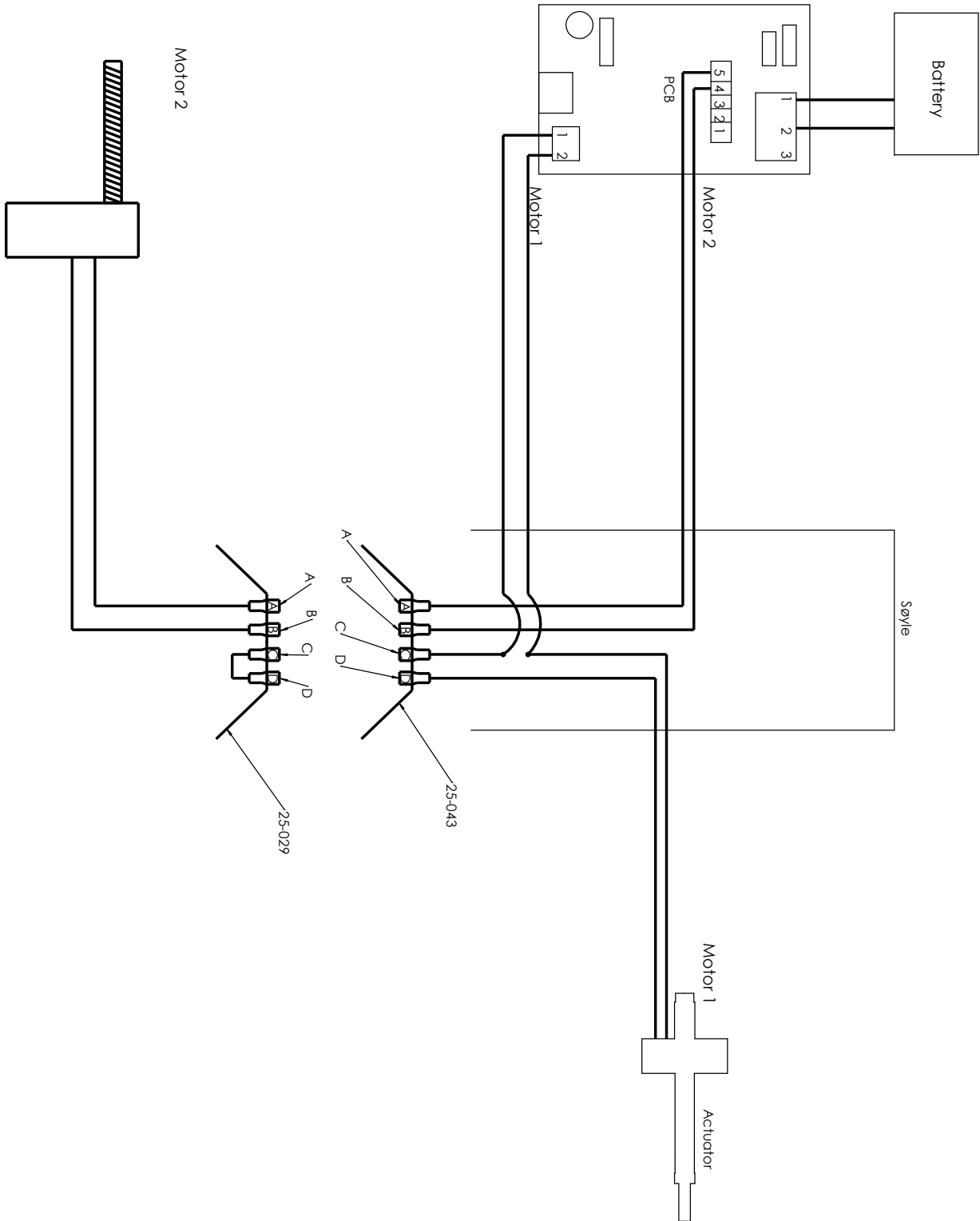
	Item no.	Qty.	Description
1	1431007	1	Scale MHS 2500 Charder
2	1820066	1	Top Fork
3	1820067	1	Twin Fork
4	1820068	2	Bolt
5	1810010	1	QR-axle M180 ø10-30
6	1431011	2	Set Screw M4x6

Scale Set



Appendix H

Electrical diagram



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