



Motion Lift

Quick Guide Manual

Safety · Operation · Maintenance · Assembly Reference

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ASY-288-2001	Top Level Assembly	ASY-288-2402	Platform Ally Assembly
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ASY-288-2202	Deutsch Clip Plate Assembly	ASY-288-2502	Extension Ally Assembly
ASY-288-2203	Motor Bracket Assembly LH	ASY-288-2503	Extension Full Assembly
ASY-288-2301	Upper LH Arm Assembly	ASY-288-2601	Bridge Plate Assembly
ASY-288-2302	Lower Left Arm Assembly	ASY-288-2701	Handrail Assembly
ASY-288-2303	Arm Brace Assembly	ASY-288-2801	Roll Off Ramp Assembly
ASY-288-2304	Full Arms Assembly	ASY-288-2901	Cylinder Full Assembly
ASY-288-2401	Platform Assembly (Sheets 1-2)	ELE-288-3002	Motion Lift Wiring Diagram

The drawing sheets in Section 2 are presented in the order above; each sheet carries its own drawing number and parts list.

General

Manufacturer

Passenger Lift Solutions Limited

Unit 2, Summit Crescent Ind. Est., Smethwick, West Midlands, B66 1BT, U.K.

Tel: +44 (0)121 552 0660

Compliance and Identification

The lift is manufactured in compliance with the EC directives applicable when it was placed on the market. It is classed as a medical device under directive 2007/47/EC (article 2, point 1, letter a) and complies with the directives and standards listed in the enclosed Declaration of Conformity.

Each lift has an identification (ID) sticker showing the lift serial number. ID stickers are fitted in three locations:

- The front of the Roll Off Ramp (visible when the lift is stowed)
- The lift carriage
- The power pack



Quote the Lift Serial Number in **ALL** correspondence with the factory.

CUSTOMER NAME

INSTALLER NAME

DATE OF INSTALLATION

SERIAL NUMBER



DO NOT REMOVE OR TAMPER WITH THE ID STICKERS

Using the Manual

This manual gives users and operators the information they need to use the Motion lift safely and correctly.

This manual is part of the lift. The purchaser must keep it safe and make it available to all operators.

The contents of this manual comply with the Directive 2007/47/EC and were drafted following the guidelines given in UNI 10893:2000. They also comply with the requirements of UNI EN ISO 10535:2007 and BS EN 1789:2007 and A2:2014.

Data and drawings are indicative only. PLS may change the contents without notice as its products are developed.

This manual must not be disclosed, edited or used for any other purpose.



Read this manual before operating the lift. If any instruction is unclear, contact the PLS technical department.

Operator's Responsibilities

Lift owner: the person who purchases the lift or uses or oversees its use. The owner is legally responsible for the safe use of the lift.

Operator: the accompanying person who operates the lift. The operator is responsible for the safe operation of the lift and the safety of its users.



Anyone operating the lift must be:

- Physically capable of operating the lift safely and of monitoring the safety of other occupants of the lift.
- Suitably trained in the safe and proper use of the equipment.
- Not under the influence of alcohol or drugs.



The lift owner must make sure every operator has read and understood this manual before operating the lift.



The lift must not be modified without prior written authority from a PLS director.



A full risk assessment should be completed by the operator based on their own individual working conditions and operational environments.



Do not use the lift if you believe it is unsafe. Report any concerns to your manager or PLS.

Safety Instructions

IMPORTANT: familiarise yourself with the controls and safety procedures **before** using the lift.

Tail Lift Safety

- Only an authorised (fully trained) operator must control the lift.
- Secure vehicle doors fully open, well clear of the lift platform.
- Keep within the stated maximum safe working load (SWL).
- Keep people away from the operating area (inside and outside of vehicle).
- Ensure that the platform is always level (horizontal, not more than 5°).
- NEVER leave the lift unattended at ground level if passengers are on board.
- When lift is not in use the controls should be deactivated.
- Ensure that the lift is correctly stowed after loading.

Vehicle Safety

- Do not operate the lift on a steep hill, camber or uneven ground.
- Ensure that the vehicle handbrake is firmly applied.
- Do not move the vehicle with the platform lowered near the ground.
- Do not move the vehicle with a person/passenger on the platform.

Pedestrian Passengers Ensure That:

- They keep clear of the platform edges.
- They hold onto the handrails.
- They remain stationary while the lift is in motion.
- They do not leave the platform until it has reached the ground.

Wheelchair Passengers Ensure That:

- The operator is behind the wheelchair at all times.
- Upon entering the vehicle, the operator is behind the wheelchair.
- Upon exiting the vehicle, the operator precedes the wheelchair.
- They are safe and secure in their wheelchair.
- No objects or material overhang the platform.
- The wheelchair (if powered) is engaged in neutral.
- The wheelchair has its handbrake securely applied.

Inside the Vehicle Ensure That:

- Wheelchairs are securely clamped down at all times.
- Seatbelts are used at all times.

Safety Instructions for 'Scooters' and Large Powered Wheelchairs

Before Operating the Tail Lift

Fully familiarise yourself with the lift controls, relevant safety procedures and possible hazards, signified by warning labels or highlighted in your Operator's Risk Assessment.

Tail Lift Safety

- Only an authorised (fully trained) operator must control the lift.
- Secure vehicle doors fully open, well clear of the lift platform.
- Keep within the stated maximum safe working load (SWL).
- Keep people away from the operating area (inside and outside of vehicle).
- Ensure that the platform is always level (horizontal, not more than 5°).
- NEVER leave the lift unattended at ground level if passengers are on board.
- When lift is not in use the controls should be deactivated.
- Ensure that the lift is correctly stowed after loading.

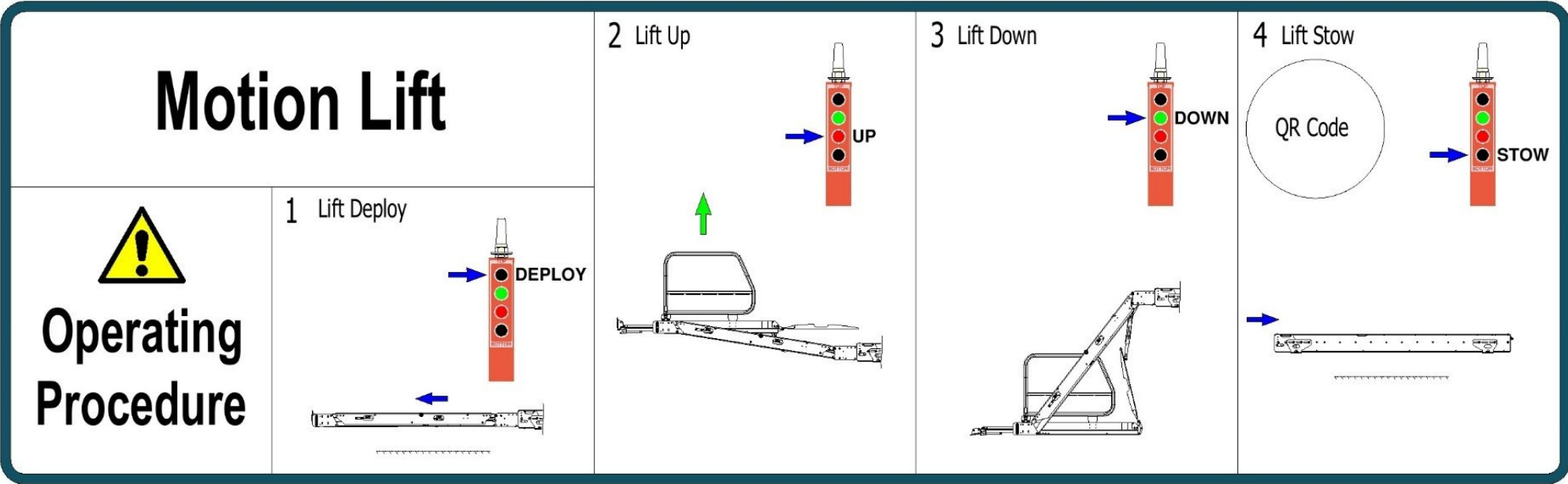
Operators Ensure That:

- Lift will lower to firm, level ground.
- Scooter or powered wheelchair is not larger than lift platform in any direction.
- Tail lift is in a FULLY operational condition. Report any defects.
- Lift bridging-plate lands flat onto vehicle floor.
- Roll-off ramp is set vertically (approx. 80°), and fully operational.
- Accompany the passenger on the lift if possible, but do not overload the lift.
- You have a clear view of the lift platform before the scooter moves onto it.
- NEVER leave passengers unattended at any time.
- The passenger should not be required to operate ANY controls.

Loading & Unloading Procedure

1. Explain to passenger the sequence of movements that will occur.
2. Where possible passenger should dismount scooter and board vehicle separately.
3. Ensure that the lift platform and area around the lift are free from obstruction.
4. Ensure that the lift platform is in the correct position before moving onto it.
5. Scooter should be pushed onto the lift platform, NOT DRIVEN.
6. Ensure that persons or equipment do not overhang the platform.
7. Scooter brakes are applied BEFORE lift begins motion (or wheels blocked).
8. All power to scooter is turned OFF.
9. Operate lift platform to vehicle floor.
10. Scooter is pushed off the lift platform, NOT DRIVEN.
11. The scooter should be clamped to the vehicle floor using the correct equipment.
12. The passenger utilises the static vehicle seats and seatbelts.

Please note: the transportation of scooters and large powered wheelchairs may require a 'non-standard' tail lift size or specification. Where possible, PLS can provide longer, wider platforms and higher roll-off ramps to help combat the increased hazards related to larger passenger vehicle transportation.

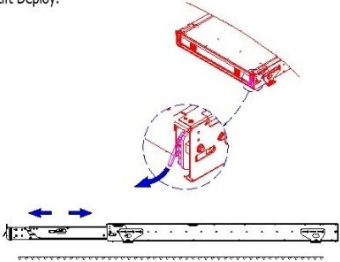
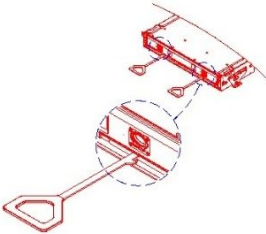
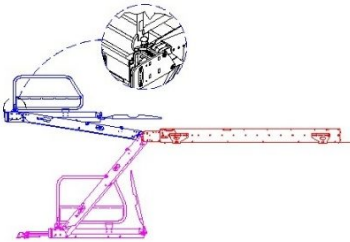
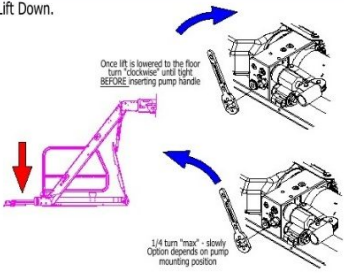
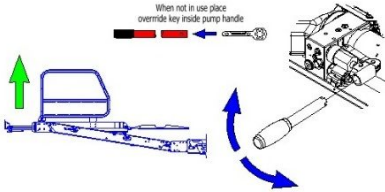
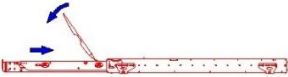
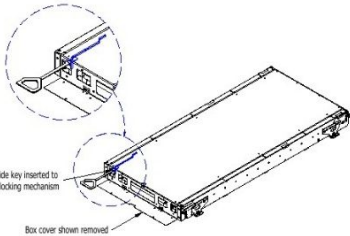
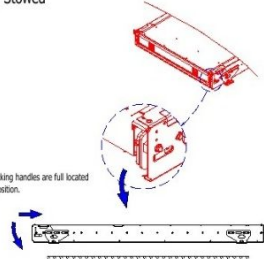


SECTION 1 · INFORMATION





**Manual
Override
Procedure**

1 Lift Deploy. 	2 Override keys used to deploy carriage. 	3 Handrails Lifted and Locked into position. 	4 Lift Down. 
5 Lift Up. 	6 Handrails Lowered and Carriage pushed into Box. 	7 Carriage Lock Released. 	8 Lift Fully Stowed 

Cleaning

Motion Cleaning Instructions

Regular cleaning keeps your Motion lift working smoothly and helps protect its finish and moving parts. Take great care throughout the cleaning process and clean the lift by hand only.



**DO NOT USE AGGRESSIVE DETERGENTS, SOLVENTS OR ABRASIVE CLEANERS.
DO NOT USE WATER JETS, PRESSURE WASHERS OR HOT WATER JET CLEANERS.**

You Will Need

A bucket of clean water, a mild non-aggressive detergent, a soft cloth or sponge, a soft brush for the platform, and ACF-50 for protecting and lubricating moving parts.

Cleaning Products by Area

Area of lift	Suitable products
Platform surface	Water, mild detergent, soft sponge
Platform sides, handrails and arms	Water, mild detergent, soft non-abrasive sponge or cloth

Cleaning Procedure

- 1 Clean the lift structure.** Wipe down the arms, platform sides and handrails using a soft cloth or sponge soaked in a mild detergent solution.
- 2 Clean the platform.** Scrub the platform surface gently with a soft brush and detergent solution, working along the grip strips to lift out dirt and grit.
- 3 Rinse.** Wipe all cleaned surfaces with a cloth dampened with clean water to remove any detergent residue. Avoid soaking the lift or letting water pool around moving parts.
- 4 Dry.** Wipe the lift dry with a clean cloth, or allow it to air dry fully before use.
- 5 Re-lubricate.** Check all moving parts and re-lubricate where necessary.
Note: See the Lubrication Diagram included in this manual.

Daily Inspections

Lift inspection checks are required on a **daily** basis by the lift operating company. The working life of your Motion lift will be greatly prolonged if these steps are followed. Daily checks should include the following:

No.	Daily Inspection Check	OK
1	Check the oil level visually using the dipstick or against the oil level indicator marks on the oil tank.	
2	Check for oil contamination, usually a white creamy liquid on the underside of the filler cap, or visible water.	
3	Visually check for any leaks or obvious signs of damage, and notify a manager if necessary.	
4	Ensure the operation instructions are visible.	
5	Ensure the hand pump handle is present.	
6	Ensure the handset control is working correctly and there are no signs of damage.	
7	Ensure the platform is clean and dry.	
8	Ensure the carriage stop lock is working correctly.	
9	Ensure the handrails are clean, working correctly and rust free.	
10	Ensure the handrail guards are present and undamaged.	
11	Ensure the roll-off ramp operates correctly and lands on the ground.	
12	Ensure the warning lights are operating correctly before using the lift (if fitted).	
13	Ensure the warning buzzer is working.	

If in doubt, contact Passenger Lift Solutions.

Monthly Inspections

Lift inspection checks are required on a **monthly** basis by the lift operating company. The working life of your Motion lift will be greatly prolonged if these steps are followed. Monthly checks should include the following:

No.	Monthly Inspection Check	OK
1	Check the oil level visually using the dipstick or against the oil level indicator marks on the oil tank. Top up the reservoir (with the lift at ground position) with PLS Blue hydraulic oil, do NOT overfill.	
2	Check for oil contamination, usually a white creamy liquid on the underside of the filler cap, or visible water.	
3	Check the Up/Down pump for fluid leaks and loose or corroded electrics. Coat any exposed electrics with dielectric grease (or similar) to protect.	
4	Check for obvious signs of damage and replace parts as necessary. Notify a manager if necessary.	
5	Ensure the operation instructions are visible.	
6	Ensure the hand pump handle is present.	
7	Ensure the handset control is working correctly and there are no signs of damage.	
8	Check the operation and stowing of the lift. If the platform base is touching the bottom of the box, adjust the stow height by raising the N/S and O/S stowing bolts.	
9	Check the box lock operation by attempting to pull the lift out of the box with the lock engaged. If this can be achieved, the hook will need to be LOWERED in relation to the handle and the lock nut firmly re-tightened.	
10	Ensure the carriage stop lock is working correctly. Check the carriage lock operation by attempting to push the lift back into the box once the platform has been fully deployed. If this can be achieved, the carriage lock mechanism will require adjustment.	
11	Ensure the platform is clean and dry, and the platform extension legs are correctly lubricated using ACF-50 spray. When cleaning the vehicle, wash the working platform of the lift.	
12	Check platform extension operation and security of the alloy sheet. Do not overtighten the fastenings which hold the extension alloy. Check platform end stops are tight and vertically aligned.	
13	Ensure the bridge plate is working correctly, landing fully and flat on the vehicle floor, and lubricated using ACF-50 spray. See the full lift manual for adjustment instructions.	
14	Ensure the bridge plate springs are correctly lubricated using ACF-50.	

No.	Monthly Inspection Check	OK
15	Ensure the handrails are clean, working correctly, secure and rust free. If components are corroded they should be replaced due to the potential hazard to users. Check location pivot pins are fully secure.	
16	Ensure the handrail guards are present and undamaged.	
17	Ensure the handrail bases and mechanisms are working correctly and lubricated using ACF-50 spray.	
18	Ensure the roll-off ramp operates correctly and lands on the ground. Check the ramp 'dummy pin' which holds the ramp in the vertical position whilst the lift is stowed. Lubricate roll-off pivots with ACF-50.	
19	Ensure the micro switches are working correctly and lubricated using ACF-50 spray and silicone dielectric grease.	
20	Ensure the warning lights are operating correctly before using the lift (if fitted).	
21	Ensure the warning buzzer is working.	
22	Lubricate the lift in accordance with the Lubrication Diagram.	

If in doubt, contact Passenger Lift Solutions.

6 Monthly Service, by Approved Engineers

As the monthly inspections, plus:

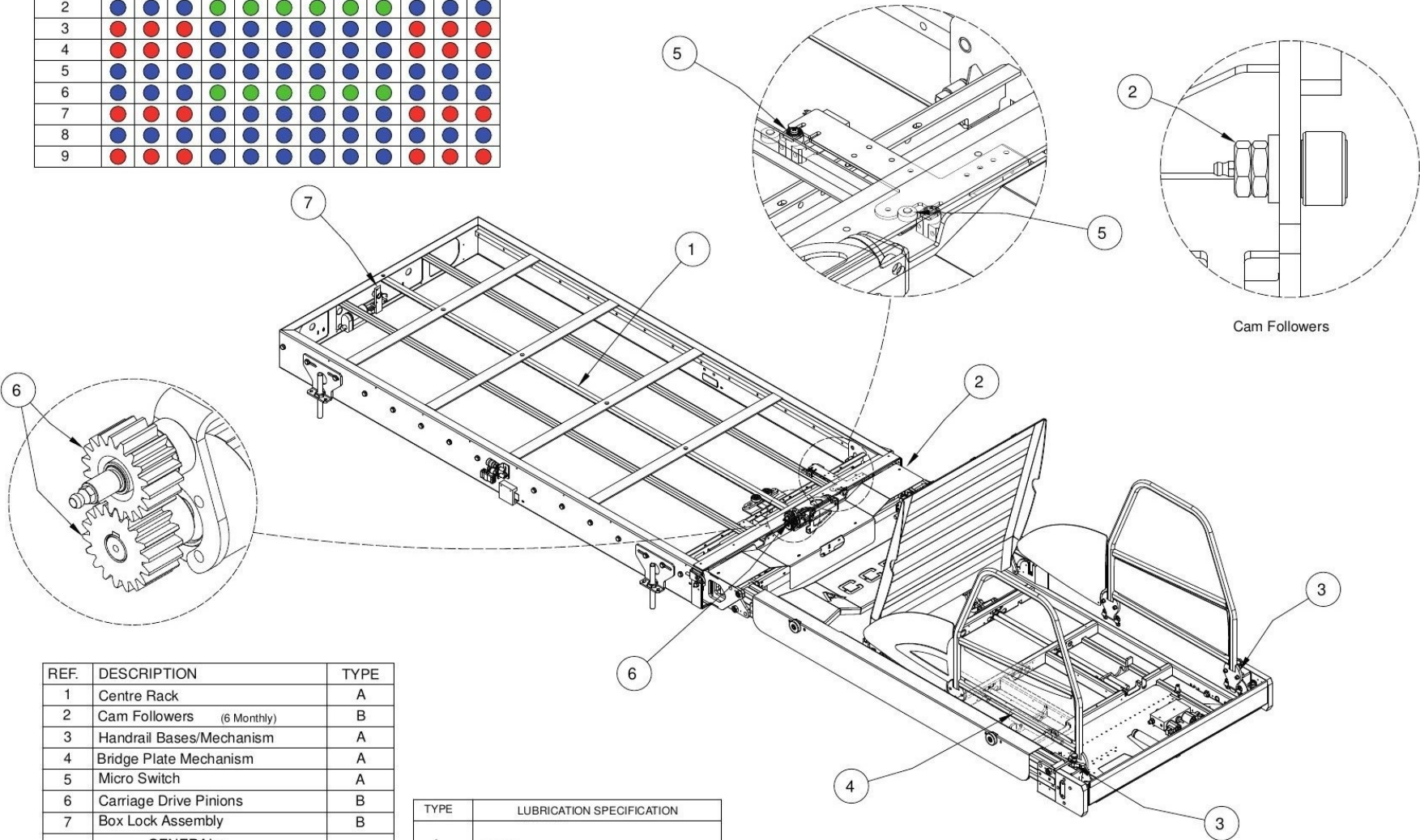
No.	6 Monthly Service Check	OK
1	Check arm pivot pins, bushes, bearings and retaining grub screws.	
2	Check cylinder rod clevis and grub screws.	
3	Check cylinders for oil leaks. Replace the piston seal if excessive oil is leaking from the cylinder.	
4	Remove the bottom sheet and check all hoses and fittings for leaks, wear or perishing. When the bottom sheet is replaced, remember to position retaining bolts with nuts on the OUTSIDE of the stowage box. If access to the lift is not possible, COMPLETELY REMOVE THE LIFT FROM THE STOWAGE BOX.	
5	Check guide bearings, cam followers and carriage mechanisms.	
6	With the lift fully powered out and the bottom sheet removed: clean the interior of the stowage cassette and degrease the side tracks and guide racks with solvent. DO NOT GREASE TRACKS OR CENTRE GUIDE. USE ACF-50 ONLY.	
7	Check the umbilical (the main hydraulic/electrical cable between the carriage and inside of the box) for signs of wear. If split or damaged this must be replaced! NOTE: the umbilical should not be twisted.	
8	Check platform wear strips (on the underside of the platform extension surface) for wear or fastening protrusion; replace if necessary.	
9	Check the bridging plate for correct operation. The bridging plate must land flush with the vehicle floor and NOT form a trip hazard.	
10	Check that the platform does not have a side-to-side 'kick'. If a 'kick' is present, the lifting cylinders should be adjusted.	
11	Check that the lift mounting brackets and track bolts are tight, secure and free from damage. Corrosion in this area of the lift is likely to occur; however, if in an advanced state, components should be exchanged for new items.	
12	Check manual hand pump operation (see Auxiliary Hand Pump Operation Procedure) and lubricate all pivot points. REMEMBER TO RETURN ANY MANUAL OVERRIDE TAPS TO THEIR CLOSED POSITION.	
13	Check condition and security of arm side guards; replace if damaged.	
14	Check the right hand arm hose tray, check hose and cable condition, and confirm all cable ties are in place correctly.	
15	Check the handset wiring by powering the lift whilst manipulating the cable in any direction.	

If in doubt, contact Passenger Lift Solutions.

Lubrication Diagram Motion Lift

Weekly = ●
Monthly = ● 6 Monthly Inspection = ●

Ref	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	●	●	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●	●	●
9	●	●	●	●	●	●	●	●	●	●	●	●



Torque Settings

The current torque settings for the Motion lift are available online. Scan the QR code with your phone camera, or visit the web address below.



SCAN TO VIEW TORQUE SETTINGS
www.passengerliftsolutions.com/torque

If in doubt, contact Passenger Lift Solutions.

Troubleshooting

Find the problem in the left column, then work through the possible faults in order.

Problem	Fault	Action
Lift not operating	Circuit breaker or fuse tripped	Reset circuit breaker or replace fuse
	Cab switch not turned on	Turn cab switch on
	Door switch sticking	Lubricate and free switch
	Low voltage	Charge battery
	Poor earth	Check battery cables and earth points
	Corrosion on crimped cables	Re-crimp cables and clean corrosion
	Loose power pack electrical connections	Check electrical connections
	Handset failure	Replace handset
Lift stuck in box	Lift is pressurised up in box	Press Down on handset to lower lift, or open the down valve to release pressure
	Box strap damaged underneath	Repair or replace box
Lift not powering IN	Motor cut-off switch (In switch)	Check switch adjustment and lubricate
	Umbilical damaged	Replace umbilical cable
	Carriage solenoid failure	Replace solenoid
	Motor failure	Replace motor
	Carriage lock not lowering correctly	Check and readjust carriage lock stowing
	Carriage lock switch failure	Check switch adjustment and lubricate
Lift not powering OUT	Lift Up switch (Out switch)	Check switch adjustment and lubricate
	Umbilical damaged	Replace umbilical cable
	Carriage solenoid failure	Replace solenoid
	Motor failure	Replace motor
	Loose carriage electrical connections	Check plugs, sockets and pins

Problem	Fault	Action
Lift not powering UP	Low oil	Top up with PLS Blue Hydraulic Oil
	No pump pressure	Check and readjust pressure relief valve
	Hose burst	Replace hose
	Lift Up switch (Out switch)	Check switch adjustment and lubricate
	Manual release left open	Close manual override
	Down valve stuck open (contamination)	Remove, clean and refit
	Low voltage	Charge battery
Lift not lowering DOWN	Contamination in PC burst valves	Replace PC burst valve set
	Crash valves locked (cold weather)	Replace flow regulators
	Down valve not opening due to low voltage	Charge battery
	Down valve sticking (contamination)	Remove, clean and refit
	Down valve coil failure	Check or replace coil
Platform extension will not extend	Handrails not raised	Raise handrails into locked position
	Extension legs not free from stow bolts	Power lift UP to a higher position
	Lack of lubrication	Lubricate moving parts using ACF-50 spray
	End stops loose	Tighten end stops
	Extension pipe or hose catching in platform	Reposition hose or pipe
Platform extension will not retract	Extension pipe or hose catching in platform	Reposition hose or pipe
	Extension legs hitting stow bolts	Power lift UP to a higher position
	Lack of lubrication	Lubricate moving parts using ACF-50 spray
	Extension pulled out too hard, end stops jammed on rollers	Reset or replace extension end stops

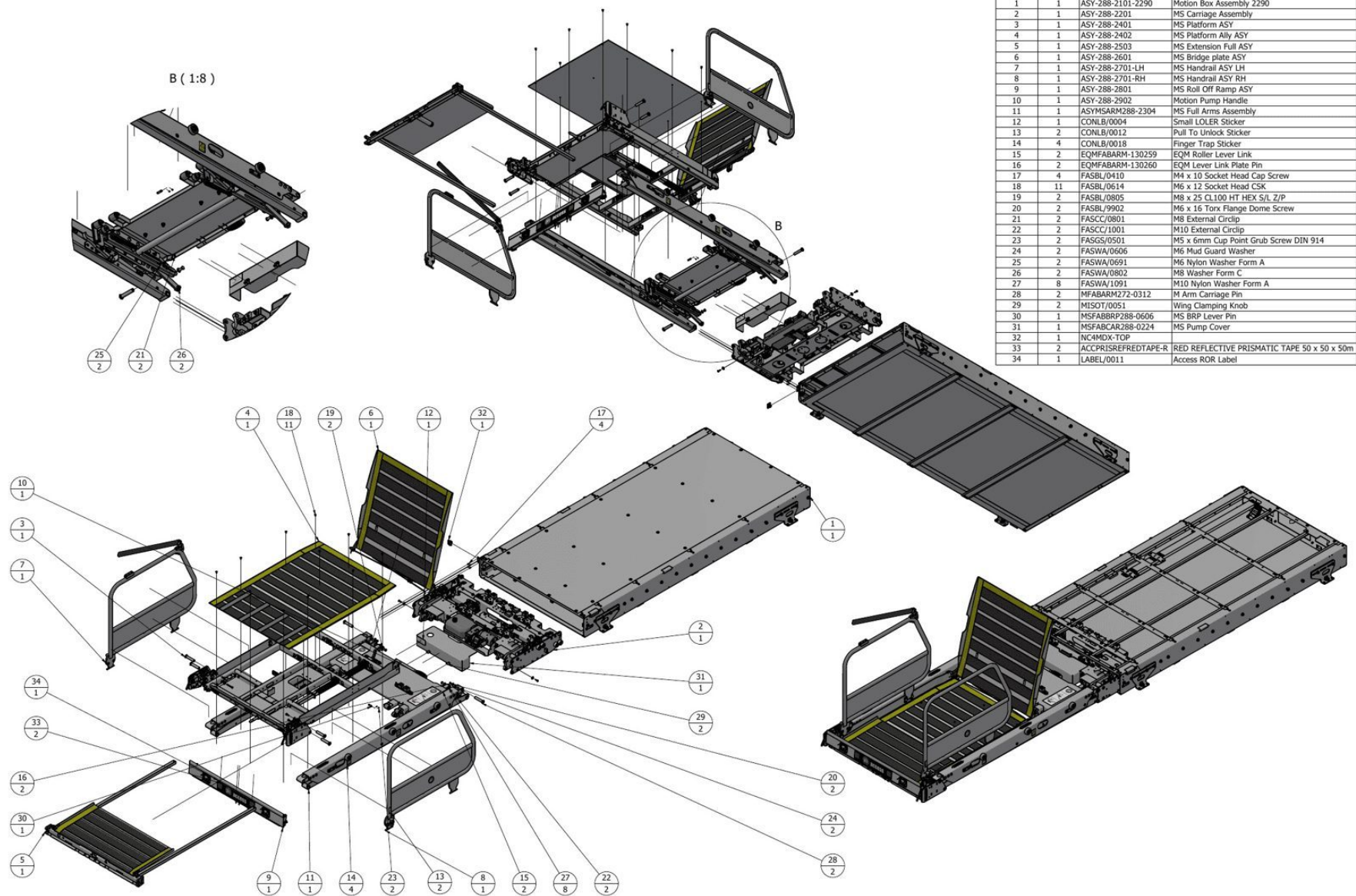
Problem	Fault	Action
Ramp will not deploy	Lack of lubrication	Lubricate pivots and moving parts using ACF-50 spray
	Ramp damaged	Replace ramp
	Cylinder failure	Replace cylinder
	Air in cylinder	Bleed air out of cylinder
Bridge plate not operating smoothly or noisy	Lack of lubrication	Lubricate pivots and moving parts using ACF-50 spray
	Bridge plate parts damaged	Replace damaged parts
Bridge plate not touching vehicle floor	Push rod position incorrect	Adjust toggle joints or adjustable crank
Bridge plate not lifting to vertical when lowering lift	Bridge plate compression spring force too low	Replace springs
Bridge plate not lifting to vertical when powering lift out of box	Torsion bars twisted or broken	Replace torsion bars/springs. Check stabiliser bar setting
Lift platform jamming on arms when powering UP	Extension under-stowed (incorrect operation)	Lower lift and retract extension
Handrail rattling or loose	Handrail pins loose or missing	Reset or replace pins
Handrails not locking when raised	Handrail damaged	Replace handrail
	Handrail lock out of adjustment	Readjust handrail lock
Auxiliary hand pump not working	Air in system	Open manual override valve, pump hand pump 10 times to bleed air, close valve and try again

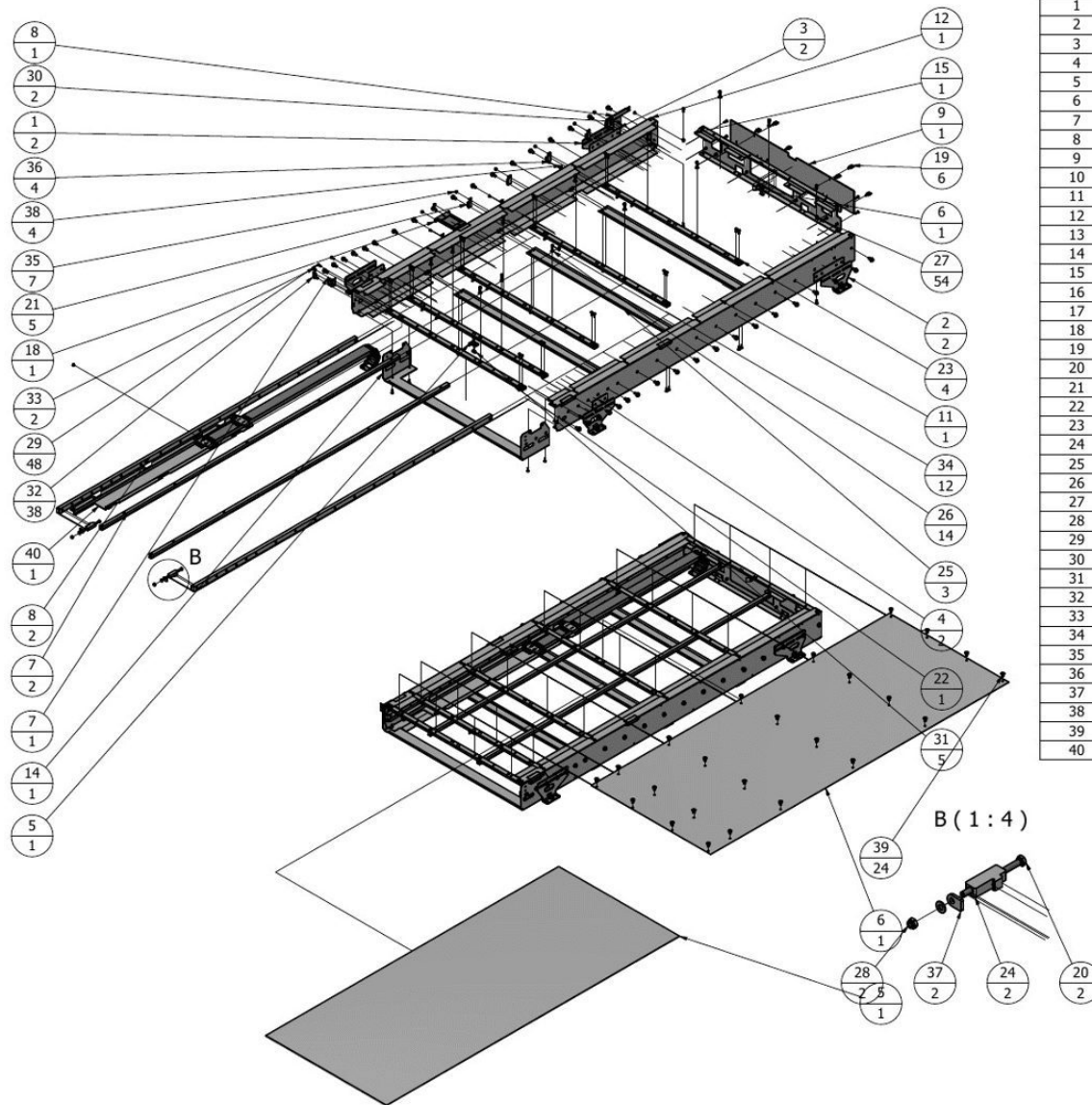
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Assembly Drawings

18 drawings · 20 drawing sheets

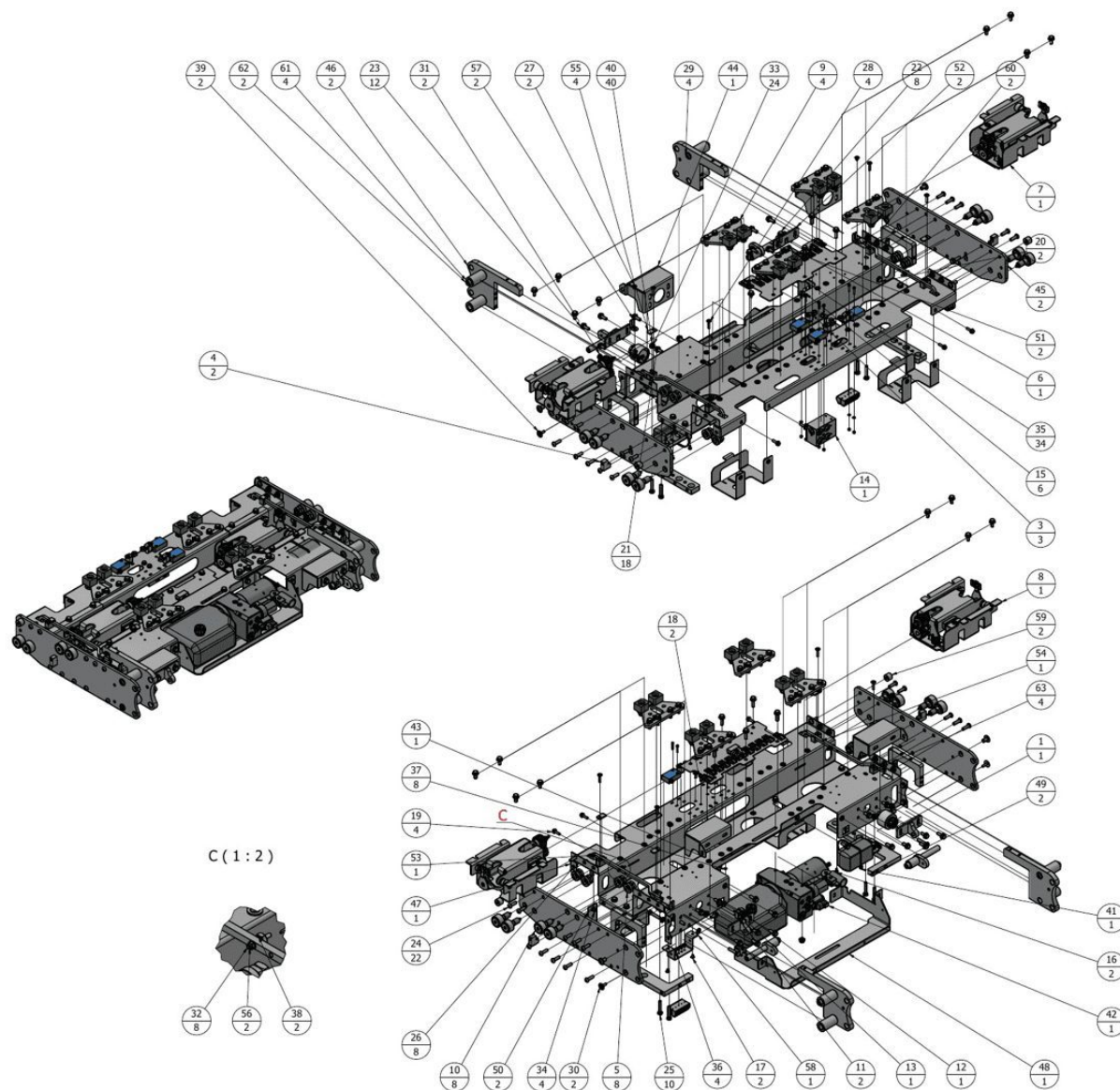




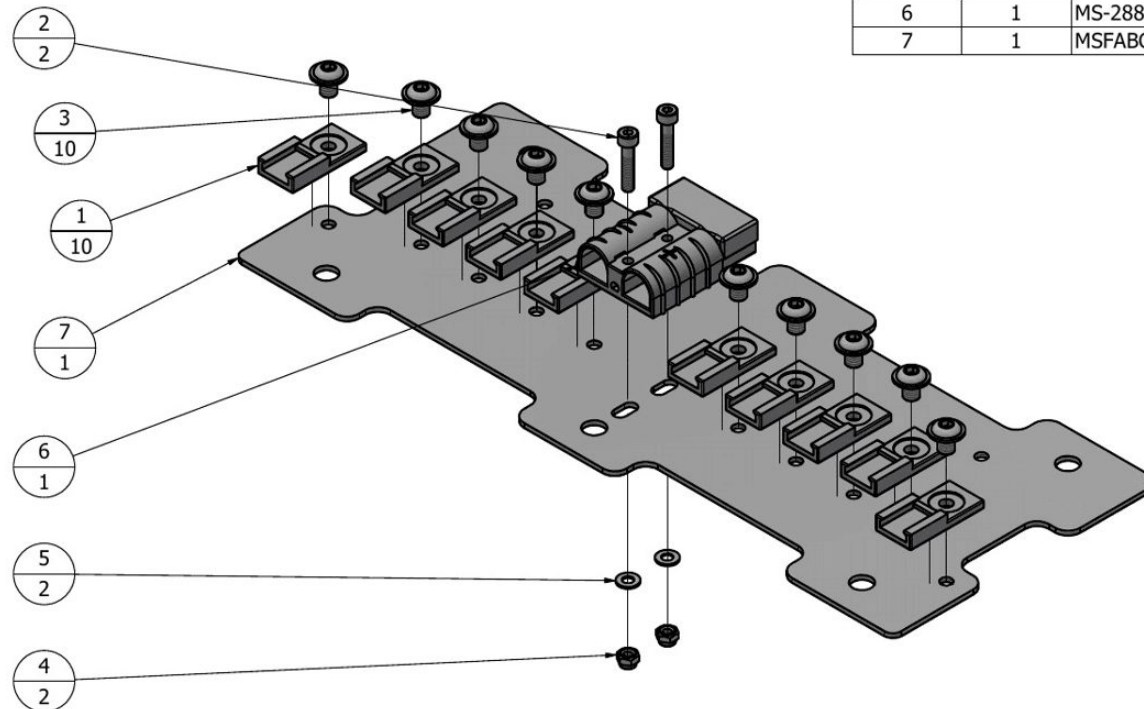
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	MSFITFAB288-0901_RH	EQ Mounting Bracket
2	2	MSFITFAB288-0901_LH	EQ Mounting Bracket
3	2	MSFABFIT288-0903	MS VDL Rear Bracket Spacer
4	2	MSFABFIT288-0902	MS VDL Front Bracket Spacer
5	1	MSFABBOX288-0119-LH	MS Front Switch BRKT LH
6	1	MSFABBOX288-0118_RH	MS Switch BRKT RH
7	1	MSFABBOX288-0117	MS Nutrik BRKT
8	1	MSFABBOX288-0116	MS Box Connector BRKT
9	1	MSFABBOX288-0114	MS Box Rear Cover
10	1	MSFABBOX288-0113-2050	MS Bottom Sheet 2050
11	1	MSFABBOX288-0112-2050	MS Top Sheet 2050
12	2	MSFABBOX288-0111-2050	MS Centre Rack 2050
13	2	MSFABBOX288-0110-2050	MS Side Track 2050
14	1	MSFABBOX288-0103	MS Front Lower Brace
15	1	MSFABBOX288-0102	MS Box Rear Plate
16	1	MSFABBOX288-0101-2050-RH	MS Box Side Plate 2050 RH
17	1	MSFABBOX288-0101-2050-LH	MS Box Side Plate 2050 LH
18	1	MS-288-0120	MS Umbilical Port
19	6	MISOT/0051	Wing Clamping Knob
20	2	MFABBOX272-0145	M Adjuster Bolt
21	4	MFABBOX272-0144	M Clamp BRKT
22	1	MFABBOX272-0129	M Front Top Brace
23	4	MFABBOX272-0128	M Top Brace
24	2	MFABBOX272-0119	M Box Stop
25	3	MFABBOX272-0110	M Lower Brace
26	14	FASWA/0801	M8 Plain Washer Form A
27	54	FASRV/0016	Hex Rivnut M6
28	2	FASNT/0801	M8 Nyloc Nut
29	48	FASBL/9911-BLACK	M6 x 20 Torx Flange Dome Screw Black
30	2	FASBL/9901	M6 x 8 Torx Flange Dome Screw
31	5	FASBL/9611	M6 x 8 Socket Large Flange Head Set A2
32	36	FASBL/1001	M10 x 20 CL 100 HT HEX S/CZ/P
33	2	FASBL/0892	M8 x 12 Socket Head Dome
34	12	FASBL/0819	M8 x 16 Socket Head Cap Screw
35	6	FASBL/0668	M6 x 8 CL100 HT HEX S/L Z/P
36	4	FASBL/0652	M6 x 10 Socket Head Dome
37	2	EQSFABBOX130037	EQ Box Stop Plate
38	4	ELEOT/0003	P Clip
39	24	CONEC/0019	Push Fit Expanding Rivet
40	1	ASY-288-2103	Motion Umbilical Tray Assembly

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	FASBL/0532	M5 x 12 Socket Flange Head Set A2
2	6	FASNT/0501	M5 Nyloc Nut
3	6	FASWA/0501	M5 Plain Washer Form A
4	1	MFABBOX272-0131	M Umbilical Tray
5	2	MFABBOX272-0139	M E-Chain MTG
6	1	MS-288-6403	Motion Conduit E Chain

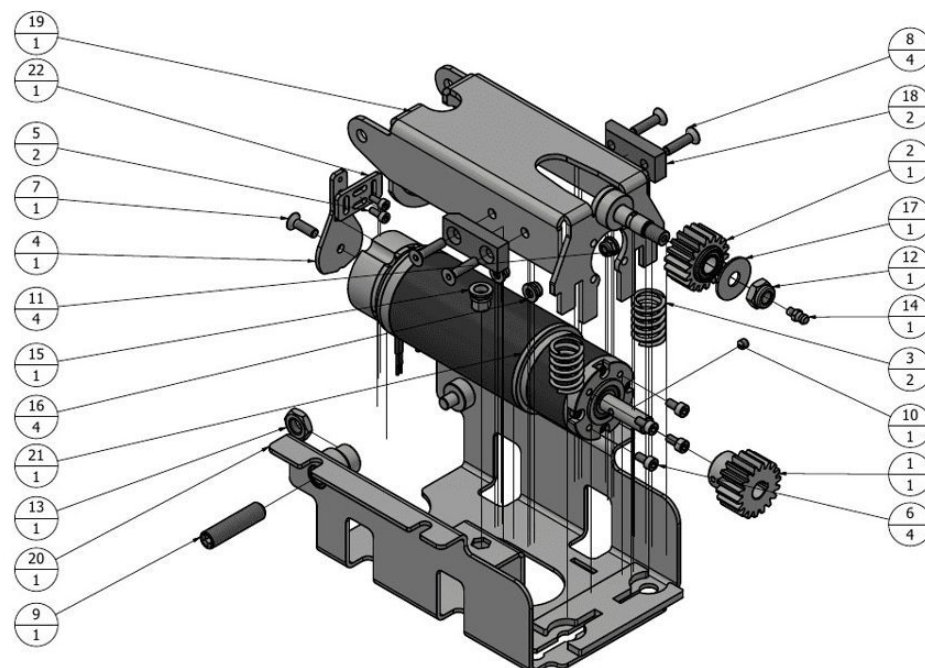




PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACC27024	Buzzer Assembly
2	1	ACC27424	SW688-1 12V Contactor On Bracket
3	3	ACC50690	Blue Switch (XCMN2115L1) With Deustch Plug
4	2	ACCFABCAR281-0218	ACC arriage Stop Plate
5	8	ACCFABCAR50194	ECO Cam Spacer
6	1	ASY-288-2202	MS Deustch Clip Plate Assembly
7	1	ASY-288-2203	MS Motor Bracket Assembly LH
8	1	ASY-288-2203-RH	MS Motor Bracket Assembly RH
9	4	ASYACCAR281-2202	ACC Rear EXT Bearing Block ASY
10	8	BEACF/0001	Cam Follower Straight Nipple MCFR 35 58X-MGL
11	2	ELEFU/0001	Panel Fuse Holder
12	1	ELEFU/0003	10A Fuse P - Red
13	1	ELEFU/0004	25A Fuse P - Transparent
14	1	EQ-130132	
15	6	FASBL/0402	M4 x 20 Socket Head Cap Screw
16	2	FASBL/0530	M5 x 8 Socket Head Dome
17	2	FASBL/0536	M5 x 8 Socket Large Flange Head Set A2
18	2	FASBL/0601	M6 x 16 CL100 HT HEX S/L Z/P
19	4	FASBL/0660	M6 X 20 CL100 HT HEX S/L Z/P
20	2	FASBL/0802	Hex Head Set Screw M8 x 25
21	18	FASBL/0804	M8 x 16 CL 100 HT HEX S/L Z/P
22	8	FASBL/0805	M8 x 25 CL100 HT HEX S/L Z/P
23	12	FASBL/0812	M8 x 20 CL 100 HT HEX S/L Z/P
24	22	FASBL/0826	M8 x 25 Socket Head Dome
25	10	FASBL/0834	M8 x 40 Hex Head Set Screw
26	8	FASBL/0896	M8 x 12 CL 100 HT HEX S/L Z/P
27	2	FASBL/9901	M6 x 8 Torx Flange Dome Screw
28	4	FASBL/9903.ipt	M6 x 25 Torx Flange Dome Screw
29	4	FASBL/9908	M10 x 16 Torx Flange Dome Screw
30	2	FASBL/9911	M6 x 20 Torx Flange Dome Screw
31	2	FASBL-0831	M8 x 35 Hex Head Set Screw
32	8	FASNT/0401	M4 Nyloc Nut
33	24	FASNT/0801	M8 Nyloc Nut
34	4	FASRV/0016	Hex Rivnut M6
35	34	FASRV/0017	Hex Rivnut M8
36	4	FASSC/8005	Pozi Flange AB Self Tappers No.8 x 1/2in
37	8	FASWA/0401	M4 Plain Washer Form A
38	2	FASWA/0501	M5 Plain Washer Form A
39	2	FASWA/0606	M6 Mud Guard Washer
40	40	FASWA/0801	M8 Plain Washer Form A
41	1	GXELCP1PVD4008-12V	GX PIPO Solenoid 12V Assembly
42	1	HYD-288-4001	MS Power Pack
43	1	MSCARFAB288-0212-LH	MS Carriage Lever MTG LH
44	1	MSCARFAB288-0212-RH	MS Carriage Lever MTG RH
45	2	MSFABCAR288-0201	MS Outer Side Plate
46	2	MSFABCAR288-0202	MS Inner Side Plate
47	1	MSFABCAR288-0205	MS Carriage BRKT
48	1	MSFABCAR288-0207	MS Pump BRKT
49	2	MSFABCAR288-0208	MS Web Plate
50	2	MSFABCAR288-0209	MS Umbilical BRKT
51	2	MSFABCAR288-0211	MS Carriage Rocker Pivot
52	2	MSFABCAR288-0213	MS Carriage Lever Pivot
53	1	MSFABCAR288-0214-LH	MS Rear Override Bar LH
54	1	MSFABCAR288-0214-RH	MS Rear Override Bar RH
55	4	MSFABCAR288-0217	MS Override Block Plate
56	2	MSFABCAR288-0221	MS Magnetic Pin
57	2	MSFABCAR288-0223	MS Carriage Cable Clip
58	1	MSFABCAR288-0225	Wago BRKT
59	2	MSFABCAR288-0226	MS Carriage Stop
60	2	MSFABCAR288-0230	MS Inner Web Plate
61	4	MSFABCAR288-0231	MS Spacer Boss
62	2	MSFABCAR288-0232	MS Spacer Pin
63	4	MSPLACAR288-0216	MS Override Block

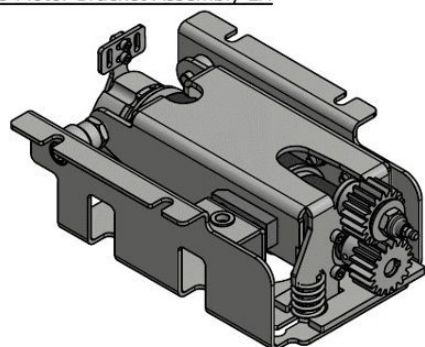


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	10	ELECT/0002	Deutsch Clip (2-6 way female)
2	2	FASBL/0402	M4 x 20 Socket Head Cap Screw
3	10	FASBL/9611	M6 x 8 Socket Large Flange Head Set A2
4	2	FASNT/0401	M4 Nyloc Nut
5	2	FASWA/0401	M4 Plain Washer Form A
6	1	MS-288-0602	Anderson 50A Connector
7	1	MSFABCAR288-0222	MS Carriage Deutsch Clip Plate

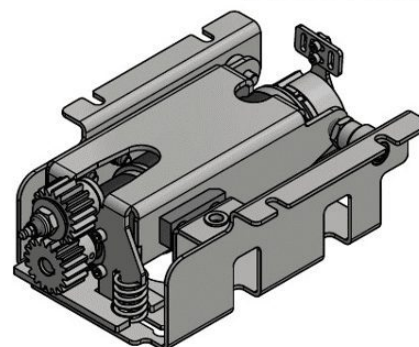


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABCAR50144	ACC Carriage Drive Spur Gear 18T
2	1	ACCFABCAR50145	ACC Rack Gear 18 Tooth
3	2	ACCSPRPLA50333	ACC 200mm Strong Bridge Plate Spring
4	1	ELE-288-3008	Motion Motor Pivot Plate
5	2	FASBL/0410	M4 x 10 Socket Head Cap Screw
6	4	FASBL/0531	M5 x 10 Socket Cap Head Screw
7	1	FASBL/0620	M6 x 20 Socket Head CSK A2
8	4	FASBL/0626	M6 x 25 Socket Head CSK A2
9	1	FASBL/9121	M12 x 50 mm Cup Point Grub Screw
10	1	FASGS/0605	M6 x 6mm Cup Point Grub Screw
11	4	FASNT/0601	M6 Nylock Nut
12	1	FASNT/1001	M10 Nyloc Nut
13	1	FASNT/1203	M12 Half Nut
14	1	FASOT/0501	M5 Grease Nipple
15	1	FASRV/2001	Hex Rivnut M8
16	4	FASWA/0601	M6 Plain Washer Form A
17	1	FASWA/1004	M10 x 30 Repair Washer
18	2	GXPLAEXT40443	GX Extension Guide Block
19	1	MFABCAR272-0207	M Motor Brake BRKT
20	1	MFABCAR272-0236-LH	Motor MTG BRKT LH
21	1	MS-288-0233	MS Motor
22	1	MSFABCAR288-0220	MS Magentic Lock Plate

ASY-288-2203
MS Motor Bracket Assembly LH

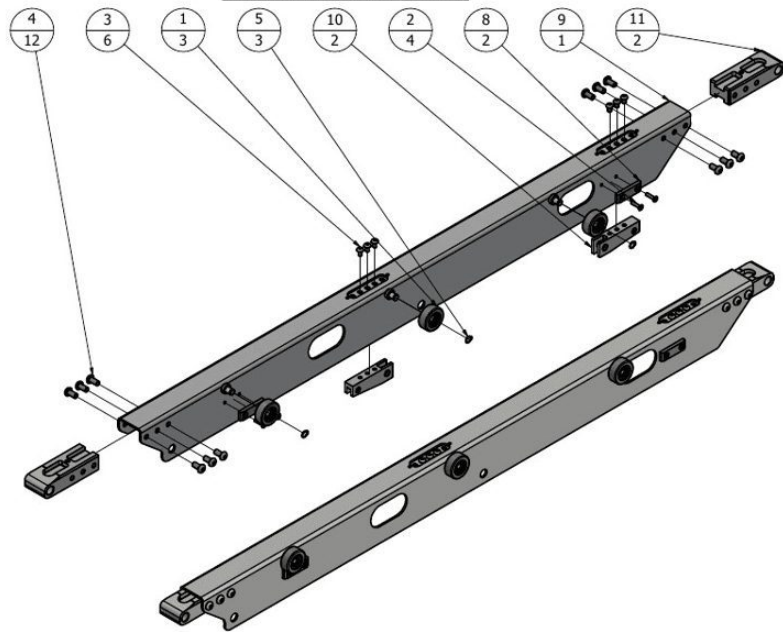


ASY-288-2203-RH
MS Motor Bracket Assembly RH



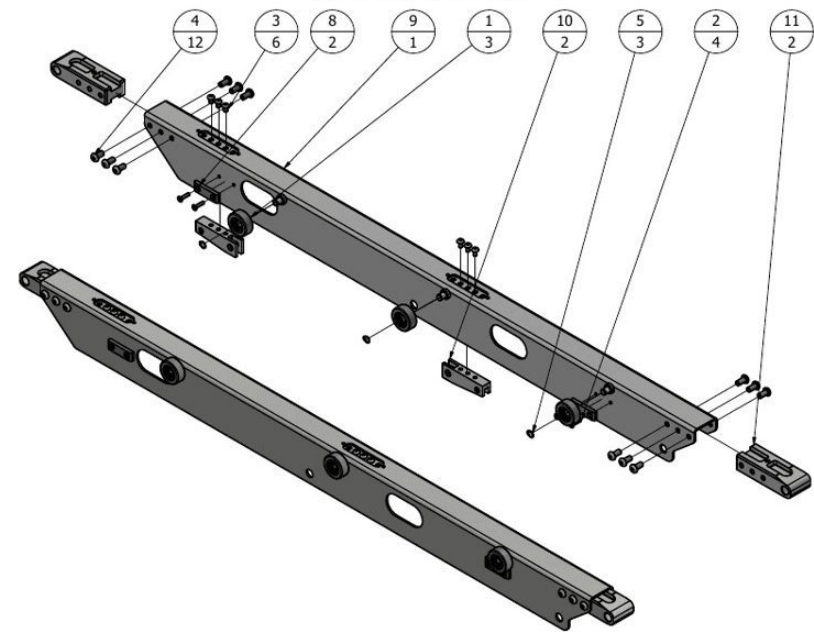
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	EQSPLAARM130241	EQ Arm Roller
2	4	FASBL/0626	M6 x 25 Socket Head CSK A2
3	6	FASBL/0892	M8 x 12 Socket Head Dome
4	12	FASBL/1020	M10 x 20 Socket Head Dome
5	3	FASCC/1201	M12 External Circlip
6	4	FASNT/0601	M6 Nylock Nut
7	4	FASWA/0601	M6 Plain Washer Form A
8	2	MPLAARM272-0319	M Side Block
9	1	MSFABARM288-0301-LH	MSL Upper Arm 1600 LH
10	2	MSFABARM288-0303	MSL Arm Cylinder Fork
11	2	MSFABARM288-0314	MS Arm Pivot Block

ASY-288-2301-LH (1 : 6)



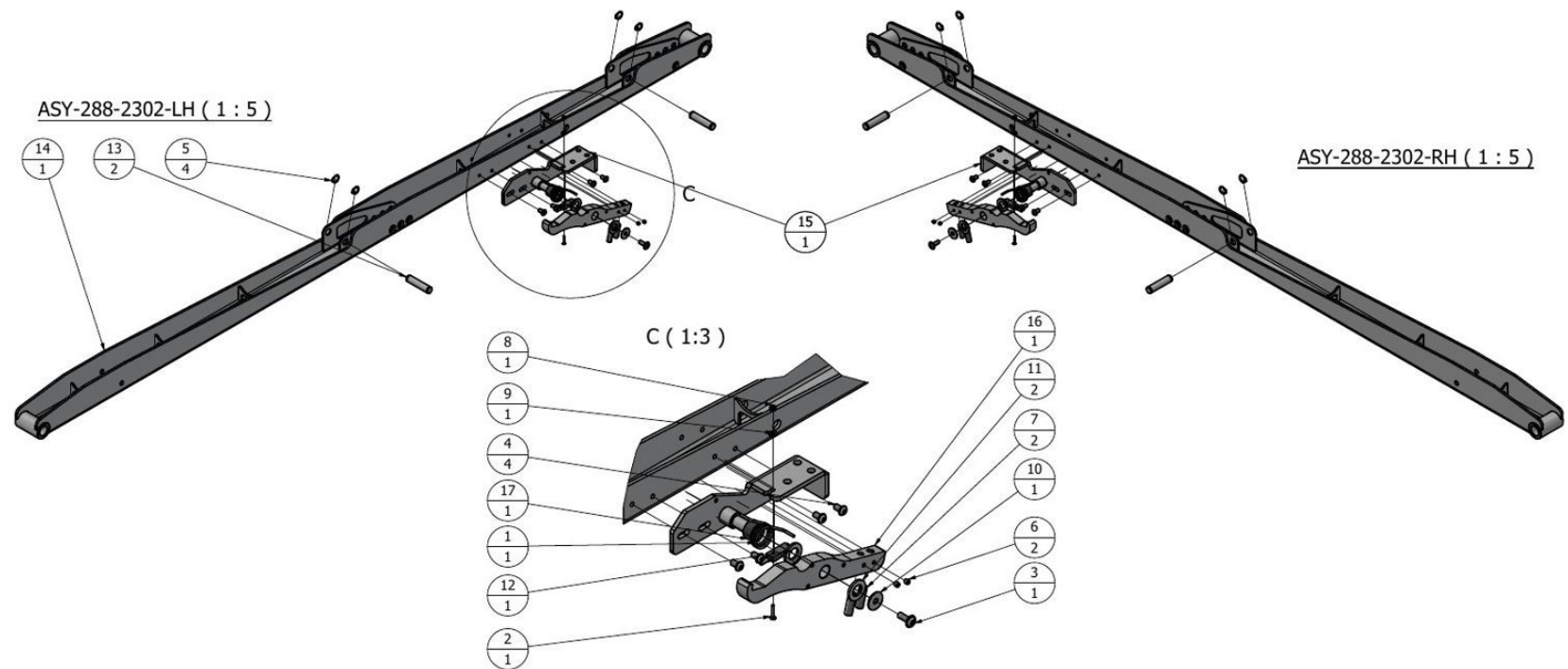
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	EQSPLAARM130241	EQ Arm Roller
2	4	FASBL/0626	M6 x 25 Socket Head CSK A2
3	6	FASBL/0892	M8 x 12 Socket Head Dome
4	12	FASBL/1020	M10 x 20 Socket Head Dome
5	3	FASCC/1201	M12 External Circlip
6	4	FASNT/0601	M6 Nylock Nut
7	4	FASWA/0601	M6 Plain Washer Form A
8	2	MPLAARM272-0319	M Side Block
9	1	MSFABARM288-0301-RH	MSL Upper Arm 1600 RH
10	2	MSFABARM288-0303	MSL Arm Cylinder Fork
11	2	MSFABARM288-0314	MS Arm Pivot Block

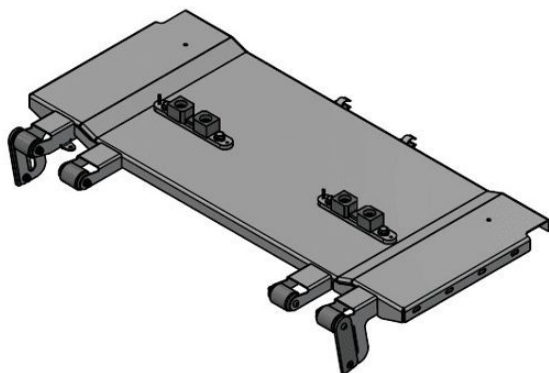
ASY-288-2301-RH (1 : 6)



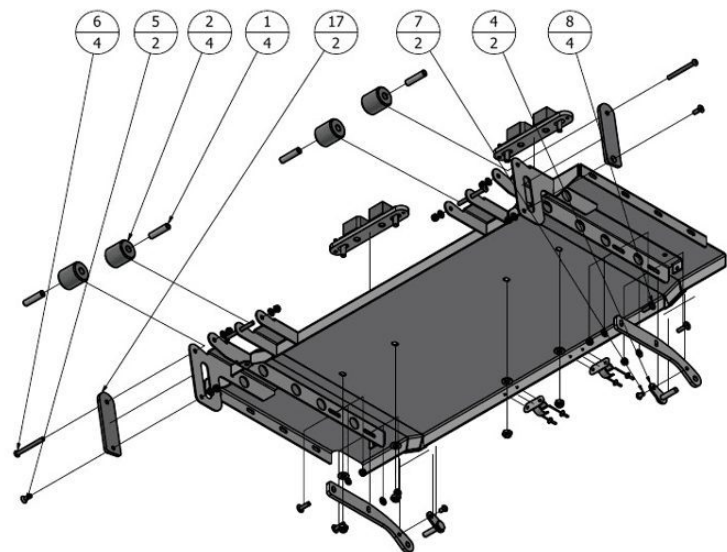
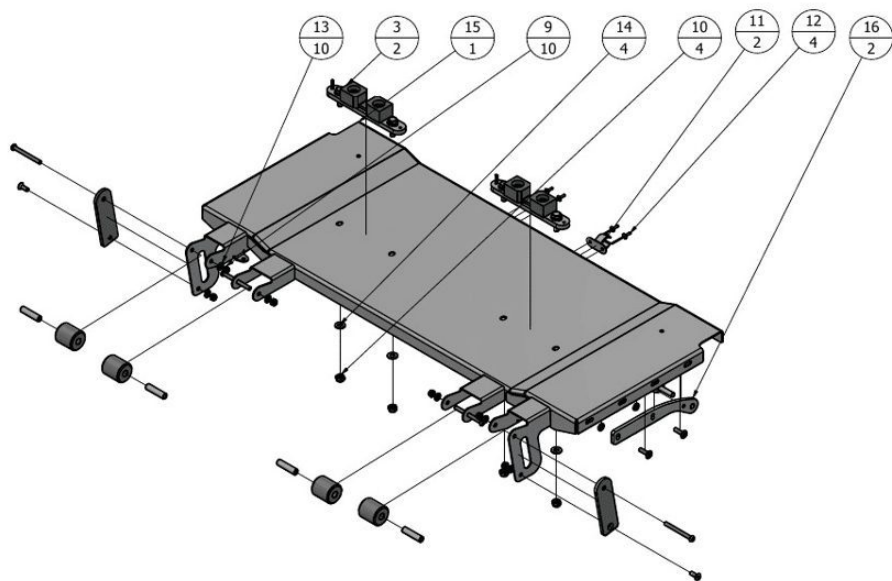
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	EQSSPRROR130403-LH	EQ Ramp Lock Spring LH
2	1	FASBL/0302	M3 x 16 Socket Head CSK
3	1	FASBL/9603	M6 x 16 Socket Flange Dome Head A2
4	4	FASBL/9612	M6 x 10 Socket Flange Head Set A2
5	4	FASCC/1201	M12 External Circlip
6	2	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
7	2	FASGS/0801	M8 x 25mm Flat Point Grub Screw
8	1	FASNT/0301	M3 Nyloc Nut
9	1	FASWA/0401	M4 Plain Washer Form A
10	1	FASWA/0606	M6 Mud Guard Washer
11	2	FASWA/1291	M12 Nylon Washer Form A
12	1	MELESWH288-3001	Stow Sensor
13	2	MFABARM272-0317	M CYL Pin
14	1	MSFABARM288-0302	MS Lower Arm 1600
15	1	MSFABARM288-0307-LH	MSL Rocker Bracket LH
16	1	MSFABARM288-0313	MS Arm Rocker
17	1	MSFABARM288-0315	MS Arm Spring Insert

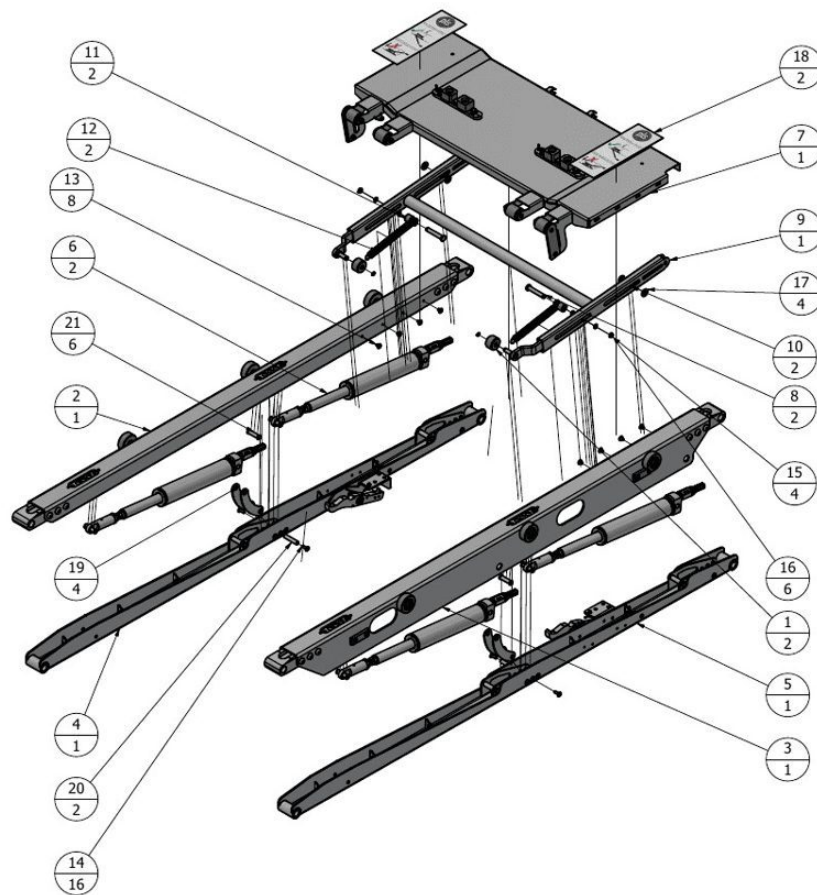
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	EQSSPRROR130403-RH	EQ Ramp Lock Spring RH
2	1	FASBL/0302	M3 x 16 Socket Head CSK
3	1	FASBL/9603	M6 x 16 Socket Flange Dome Head A2
4	4	FASBL/9612	M6 x 10 Socket Flange Head Set A2
5	4	FASCC/1201	M12 External Circlip
6	2	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
7	2	FASGS/0801	M8 x 25mm Flat Point Grub Screw
8	1	FASNT/0301	M3 Nyloc Nut
9	1	FASWA/0401	M4 Plain Washer Form A
10	1	FASWA/0606	M6 Mud Guard Washer
11	2	FASWA/1291	M12 Nylon Washer Form A
12	1	MELESWH288-3001	Stow Sensor
13	2	MFABARM272-0317	M CYL Pin
14	1	MSFABARM288-0302	MS Lower Arm 1600
15	1	MSFABARM288-0307-RH	MSL Rocker Bracket RH
16	1	MSFABARM288-0313	MS Arm Rocker
17	1	MSFABARM288-0315	MS Arm Spring Insert



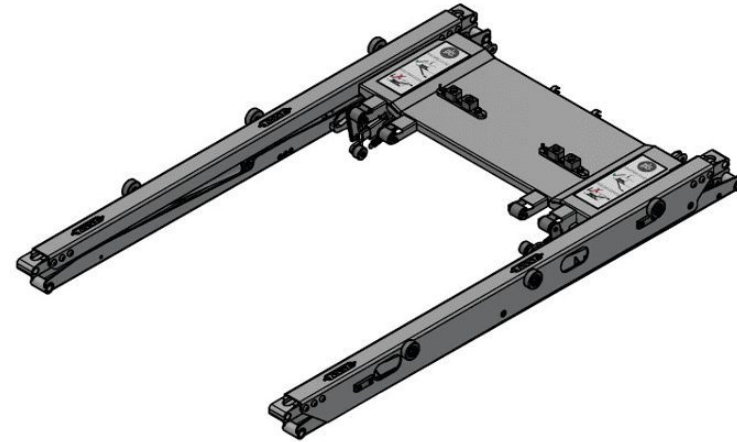


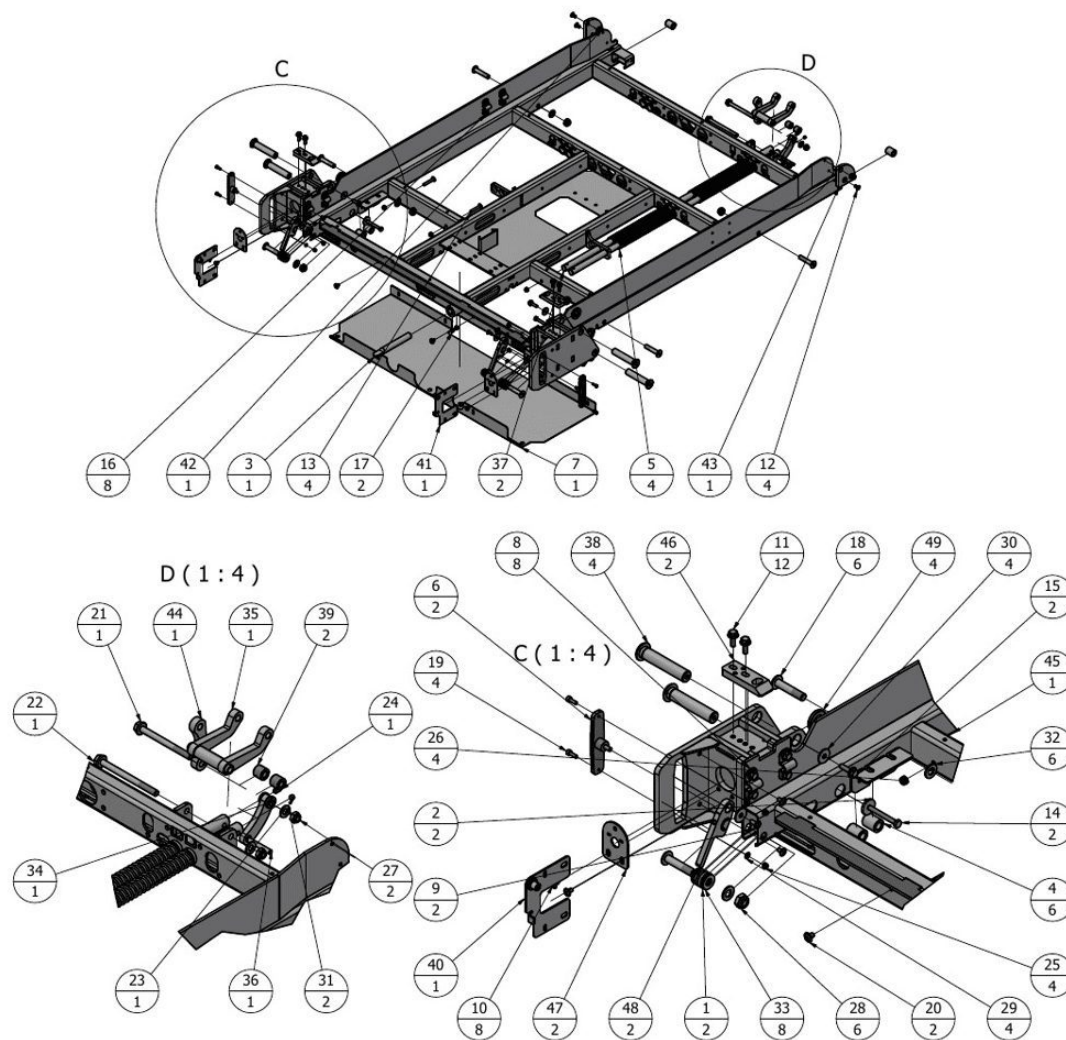
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	ACCFABARM50231-40	ACC Roller Tube 40mm
2	4	ACCPAARM50240	ACC Roller Bridge Plate Roller 38mm
3	2	ASYACCCAD281-2204	ACC Rear Bearing Block ASY
4	2	EQMFABARM-130252	EQM Brace Guide
5	2	FASBL/0616	M6 x 16 Socket Head CSK A2
6	4	FASBL/0646	M6 x 60 Socket Button Head
7	2	FASBL/9612	M6 x 10 Socket Flange Head Set A2
8	4	FASBL/9911	M6 x 20 Torx Flange Dome Screw
9	10	FASNT/0601	M6 Nyloc Nut
10	4	FASNT/0801	M8 Nyloc Nut
11	2	FASOT/0009	3/4" Metal Tool Clip 82075 Black
12	4	FASRV/0008-BLK	3.2 x 12 Large Flange Head Rivet Black
13	10	FASWA/0601	M6 Plain Washer Form A
14	4	FASWA/0801	M8 Plain Washer Form A
15	1	MSFABARM288-0304	MS Arm Brace
16	2	MSFABARM288-0308	MS Roller Plate
17	2	MSFABARM288-0312	MS Bridge Plate Slide





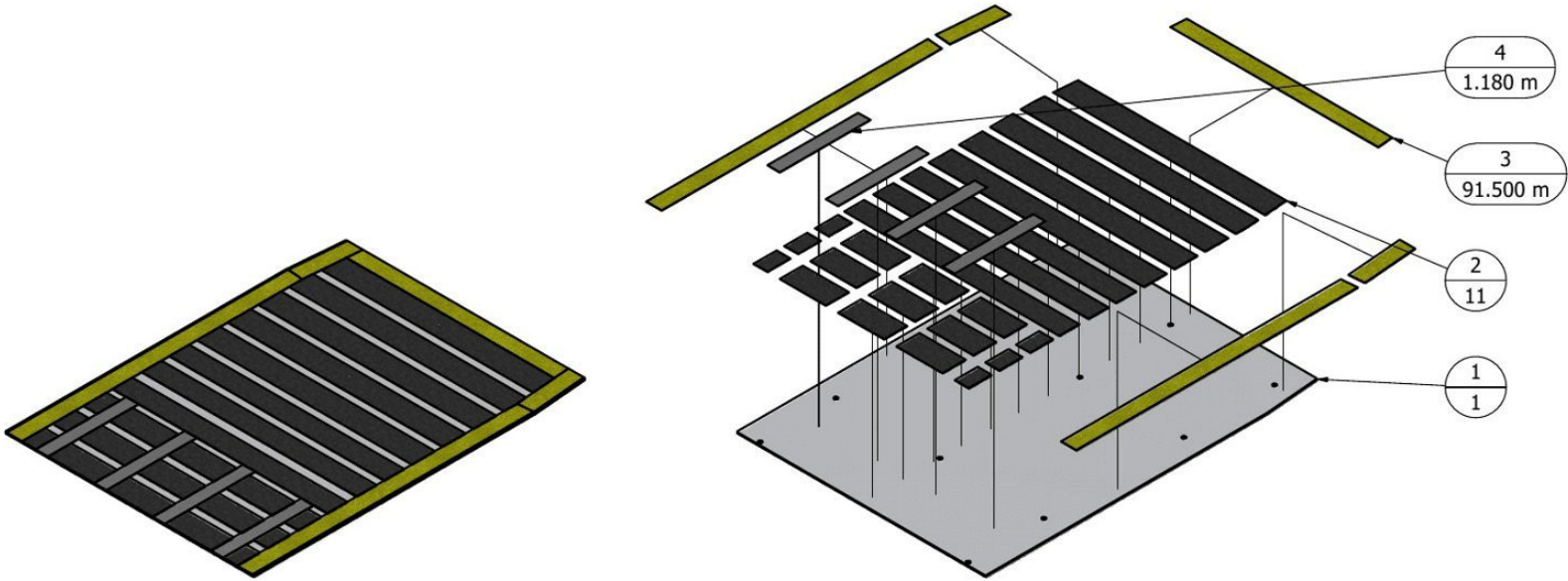
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ACCPLAARM50247	Roller Bridge Plate Roller 22 Wide
2	1	ASY-288-2301-LH	Motion Upper LH Arm ASY
3	1	ASY-288-2301-RH	Motion Upper RH Arm ASY
4	1	ASY-288-2302-LH	Motion Lower Left Arm Assembly
5	1	ASY-288-2302-RH	Motion Lower Right Arm Assembly
6	2	ASY-288-2901	MS Cylinder Full ASY
7	1	ASYMSARM288-2303	MS Arm Brace Assembly
8	2	EQFABARM130266	EQM Brace Spring Pin
9	1	EQMFABARM130253	EQM Arm Lever Brace
10	2	EQMFABARM130254	EQM Arm Lever Slide
11	2	EQPLAARM130267	EQ Arm Spring Roller
12	2	EQSPRARM130264	EQ Brace Spring
13	8	FASBL/9901	M6 x 8 Torx Flange Dome Screw
14	16	FASBL/9902	M6 x 16 Torx Flange Dome Screw
15	4	FASCC/0801	M8 External Circlip
16	6	FASWA/0691	M6 Nylon Washer Form A
17	4	FASWA/1091	M10 Nylon Washer Form A
18	2	LABEL/0039	EQM Throw In Sticker
19	4	MSFABARM288-0305	MS Tie Plate
20	2	MSFABARM288-0306	MS Arm Lower Tie Pin
21	6	MSFABARM288-0310	MS Arm Upper Tie Pin

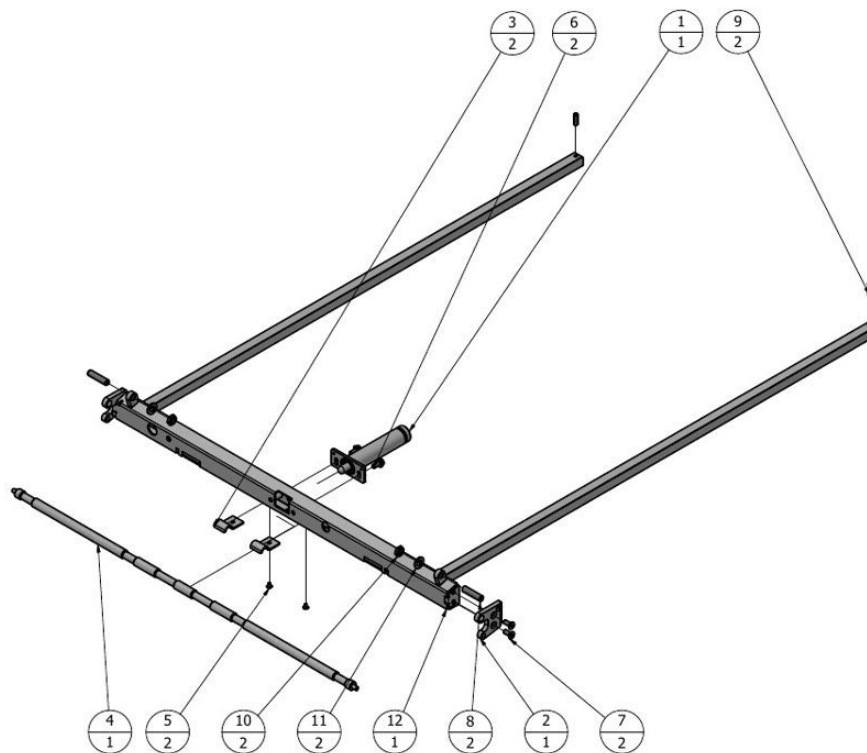




PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ACC25542	Platform Bearing HF003 (NA49002-RS)
2	2	ACCFABARM50287	ACC ECO Arm Pin Washer
3	1	ACCFABPLA50358	ACC Dummy Pin High Cut
4	6	ACCFABPLA50368	ACC Platform Extension Roller
5	4	ACCSRPPLA50333	ACC 200mm Strong Bridge Plate Spring
6	2	ELELR/0001	6 LED Light 24V Red
7	1	EQ2PFABPLA130346	EQ Platform Front Landing Plate
8	8	EQSFABPLA130343	EQ Handrail Hinge Plate
9	2	FASBL/0532	M5 x 12 Socket Flange Head Set A2
10	8	FASBL/0536	M5 x 8 Socket Large Flange Head Set A2
11	12	FASBL/0601	M6 x 16 CL100 HT HEX S/L Z/P
12	4	FASBL/0614	M6 x 12 Socket Head CSK
13	4	FASBL/0633	M6 X 35 Socket Flange Head
14	2	FASBL/0641	M6 x 50 Hex Head Set Screw
15	2	FASBL/0660	M6 X 20 CL100 HT HEX S/L Z/P
16	8	FASBL/0668	M6 x 8 CL100 HT HEX S/L Z/P
17	2	FASBL/0814	M8 x 10mm Cup Point Grub Screw DIN 914
18	6	FASBL/1027	M10 x 50 Machined Platform Roller Bolt
19	4	FASBL/9051	M4 x 12 Socket Head Cap Screw
20	2	FASBL/9901	M6 x 8 Torx Flange Dome Screw
21	1	FASBL/9906	M8 x 90 CL100 HT HEX S/L Z/P
22	1	FASBL/9915	M8 x 100 CL100 HT HEX S/L Z/P
23	1	FASGS/0605	M6 x 6mm Cup Point Grub Screw
24	1	FASGS/9001	M6 x 10mm Cup Point Grub Screw
25	4	FASNT/0401	M4 Nyloc Nut
26	4	FASNT/0601	M6 Nylock Nut
27	2	FASNT/0801	M8 Nylock Nut
28	6	FASNT/1001	M10 Nylock Nut
29	4	FASWA/0401	M4 Plain Washer Form A
30	4	FASWA/0606	M6 Mud Guard Washer
31	2	FASWA/0801	M8 Plain Washer Form A
32	6	FASWA/1001	M10 Plain Washer Form A
33	8	FASWA/1091	M10 Nylon Washer Form A
34	1	GNXAFABPLA60361	GNXA Pull Lever A
35	1	GXFABBRP40571	GX BRP Pull Lever B
36	1	GXFABBRP40577	GNXA Hydraulic BP Pull Lever Pin
37	2	GXFABBRP40578	GX Pull Rod
38	4	MFABARM272-0312	M Arm Carriage Pin
39	2	MS-288-0605	Motion Lever Spacer
40	1	MSFAB288-0409-LH	MS LED Override BRKT LH
41	1	MSFAB288-0409-RH	MS LED Override BRKT RH
42	1	MSFABBRP288-0602-LH	MS Hinge Plate LH
43	1	MSFABBRP288-0602-RH	MS Hinge Plate RH
44	1	MSFABBRP288-0604	MS Pull Lever C Plate
45	1	MSFABPLA288-0401	MSL Platform
46	2	MSFABPLA288-0404	MSL PLA Lock Plate
47	2	MSFABPLA288-0407	MS Bracket LED Plate
48	2	MSFABPLA288-0408	MS Override Lever
49	4	MSPLAARM288-0311	MS Arm Spacer

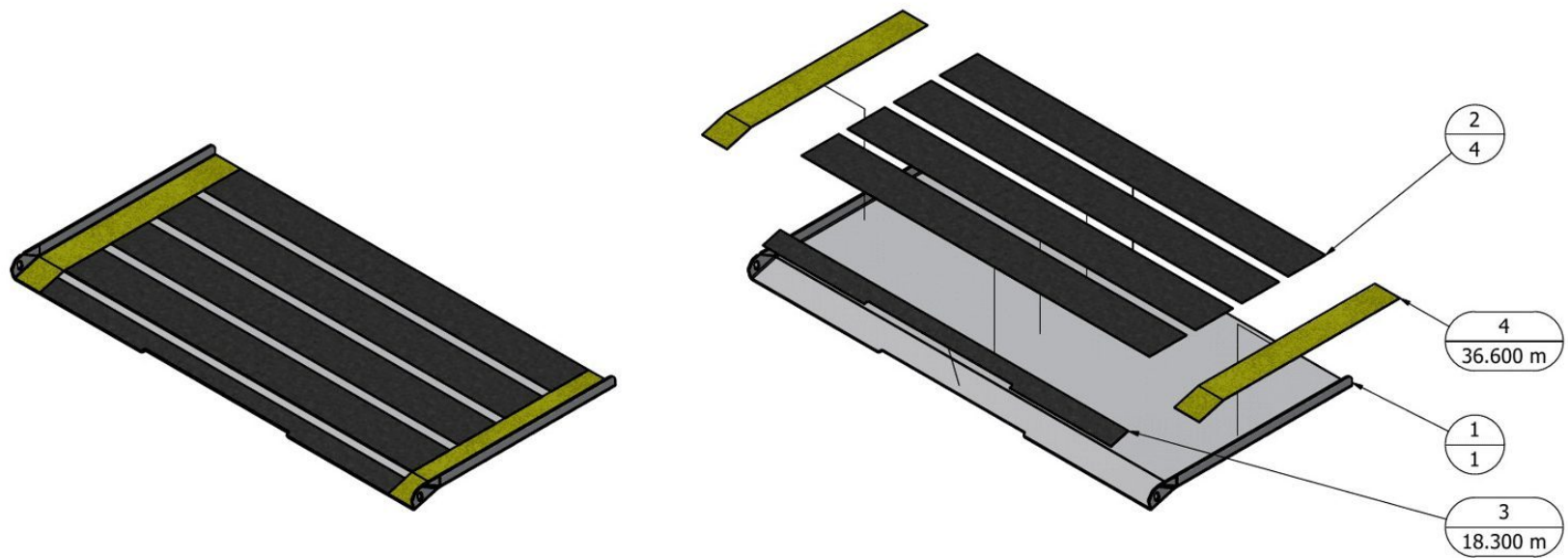
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MSALYPLA288-0406	MSL Platform Aluminum
2	11	HASCL/0740	Black Cleating 75 x 740mm
3	91.500 m	HASCL/0002	50mm Yellow Cleating Roll 18.3m
4	1.180 m	ACCH3418	Handrail H3418 Tape 40mm x 18.3m Black



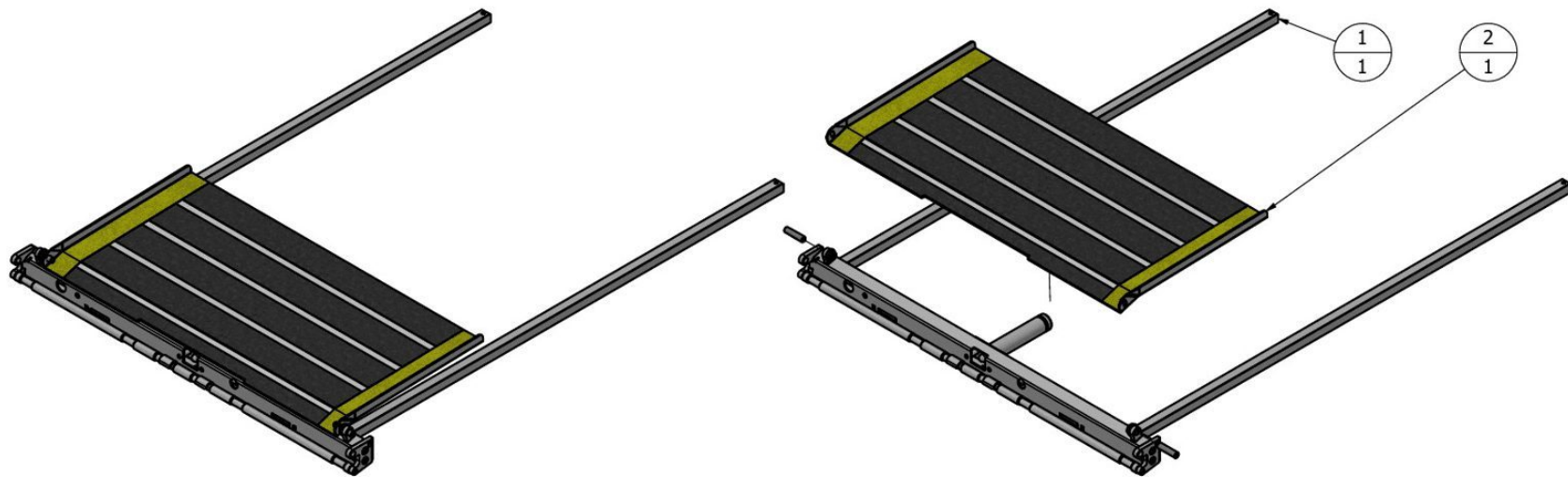


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACC26295	NX Hydraulic Ramp Cylinder
2	1	EQ2PFABEXT130803	EQ Extension Ramp Roller Plate
3	2	EQ2PFABEXT130805	EQS Ramp Roller Support
4	1	EQ2PFABEXT130806	EQ Extension Roller
5	2	FASBL/0536	M5 x 8 Socket Large Flange Head Set A2
6	2	FASBL/0804	M8 x 16 CL 100 HT HEX S/L Z/P
7	2	FASBL/0823	M8 x 20 Socket Head CSK
8	2	FASBL/9121	M12 x 50 mm Cup Point Grub Screw
9	2	FASGS/0801	M8 x 25mm Flat Point Grub Screw
10	2	FASNT/1203	M12 Half Nut
11	2	FASWA/1201	M12 Plain Washer Form A
12	1	MSEXTFAB288-0501	MSL Extension

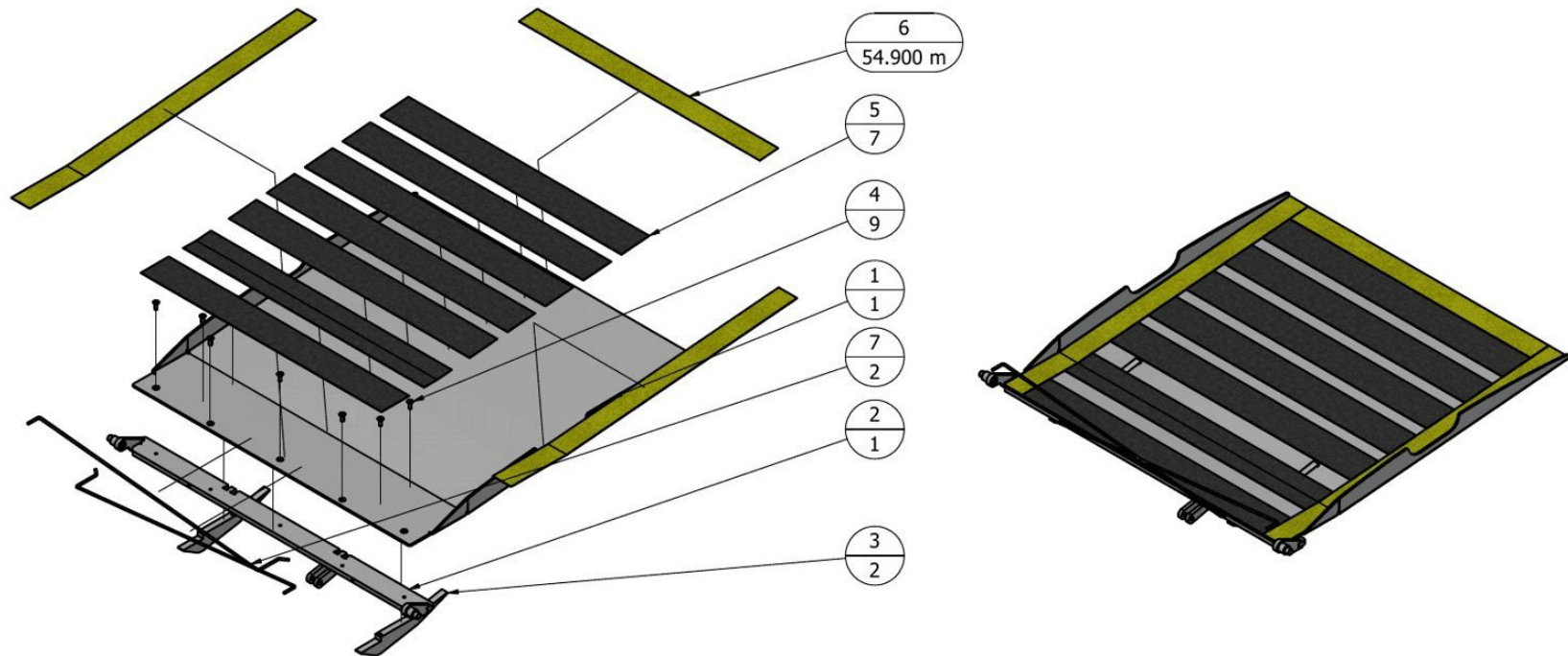
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MSALYEXT288-0502	MS Extension Aluminum
2	4	HASCL/0740	Black Cleating 75 x 740mm
3	18.300 m	HASCL/0001	75mm Black Cleating Roll 18.3m
4	36.600 m	HASCL/0002	50mm Yellow Cleating Roll 18.3m



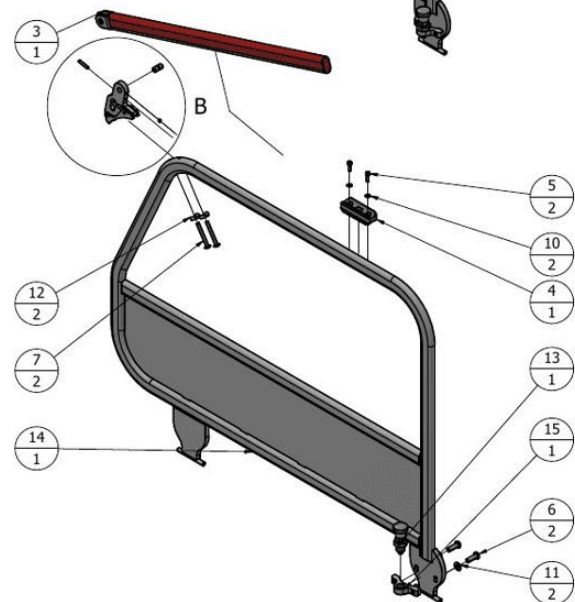
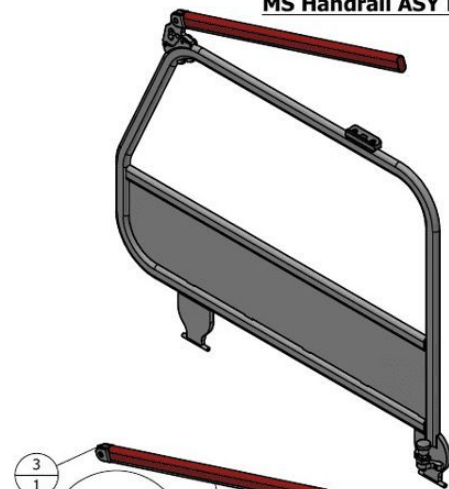
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ASYMSEXT288-2501	MSL Extension ASY
2	1	ASY-288-2502	MS Extension Ally ASY



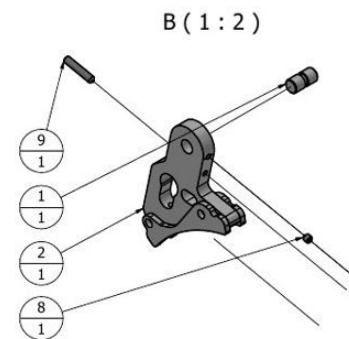
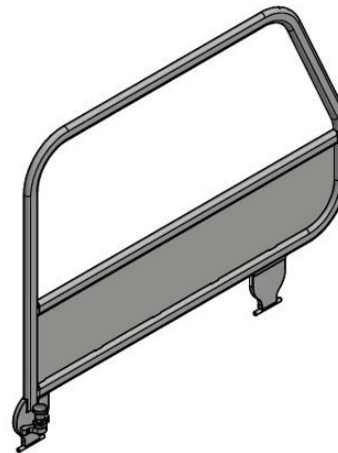
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MSALYBRP288-0601-775	MS BRP Aluminum 775
2	1	MSMFABBRP288-0603	MS Bridge Plate Hinge
3	2	EQMPLABRP130608	EQM Bridge Plate Guide Wedge
4	9	FASBL/0616	M6 x 16 Socket Head CSK A2
5	7	HASCL/0740	Black Cleating 75 x 740mm
6	54.900 m	HASCL/0002	50mm Yellow Cleating Roll 18.3m
7	2	ACCSPRBRP50532-4.0	ACC Bridge Plate Torsion Bar 4.0



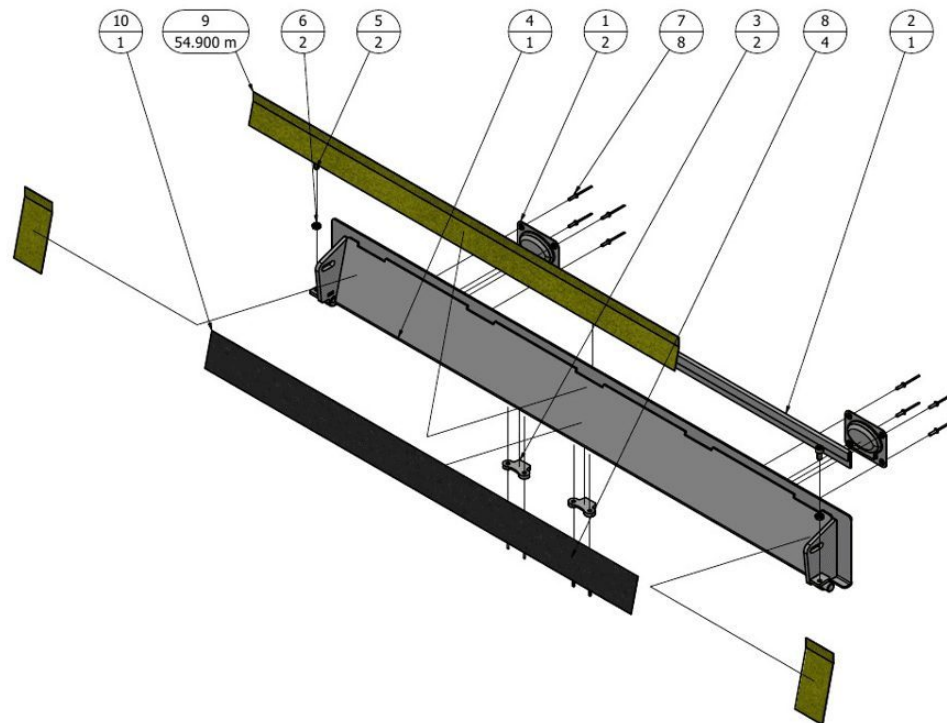
ASY-288-2701-LH
MS Handrail ASY LH



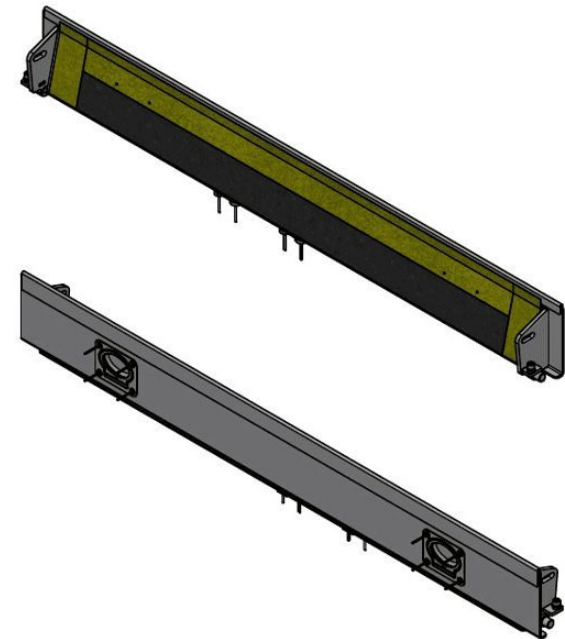
ASY-288-2701-RH
MS Handrail ASY RH

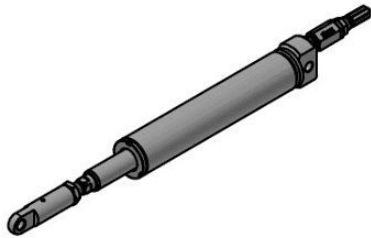


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABHAN50706	ACC Handrail Throw Over Pin
2	1	ACCFABHAN50746	ACC Handrail Throw Over Base
3	1	EQFABHAN130535	EQ Handrail Throw Over
4	1	EQPLAHAN130536	EQ Handrail Throw Block
5	2	FASBL/0518	M5 x 16 Socket Head Capscrew
6	2	FASBL/0826	M8 x 25 Socket Head Dome
7	2	FASBL/9618	M6 x 50 Socket Flange Dome Head A2
8	1	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
9	1	FASGS/0503	M5 x 25mm Cup Point Grub Screw BZP
10	2	FASWA/0501	M5 Plain Washer Form A
11	2	FASWA/0801	M8 Plain Washer Form A
12	2	FSTM6-WSH-SADDLE	M6 Saddle WSH. 102.0200.000.01
13	1	GN717-8-M16x1.5-BK-NI	S/Steel M16 Index Plunger & Nut
14	1	MSHANFAB288-0701	MS Handrail Frame
15	1	MSHANFAB288-0702	MSL Handrail Lock Support Plate

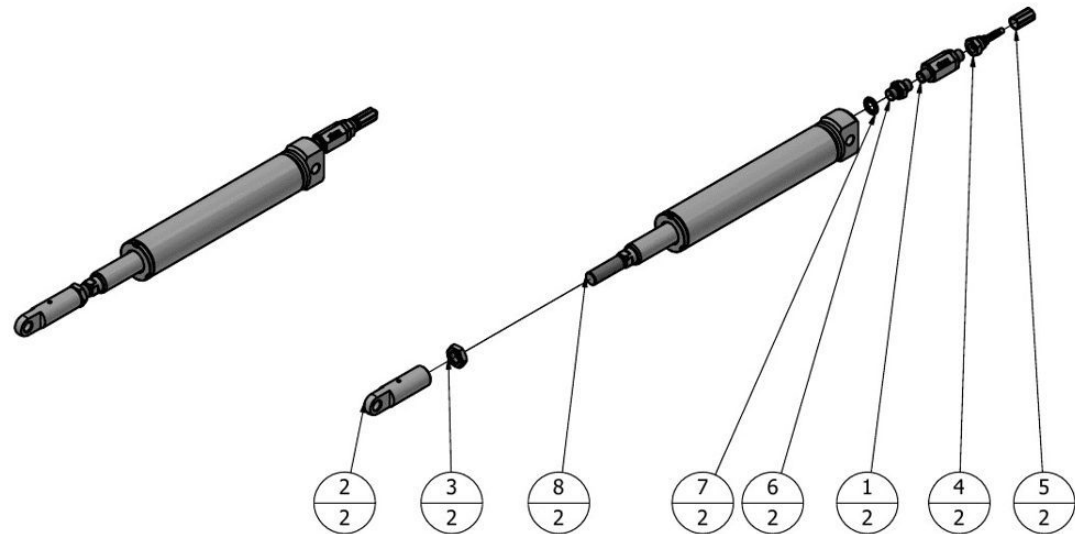


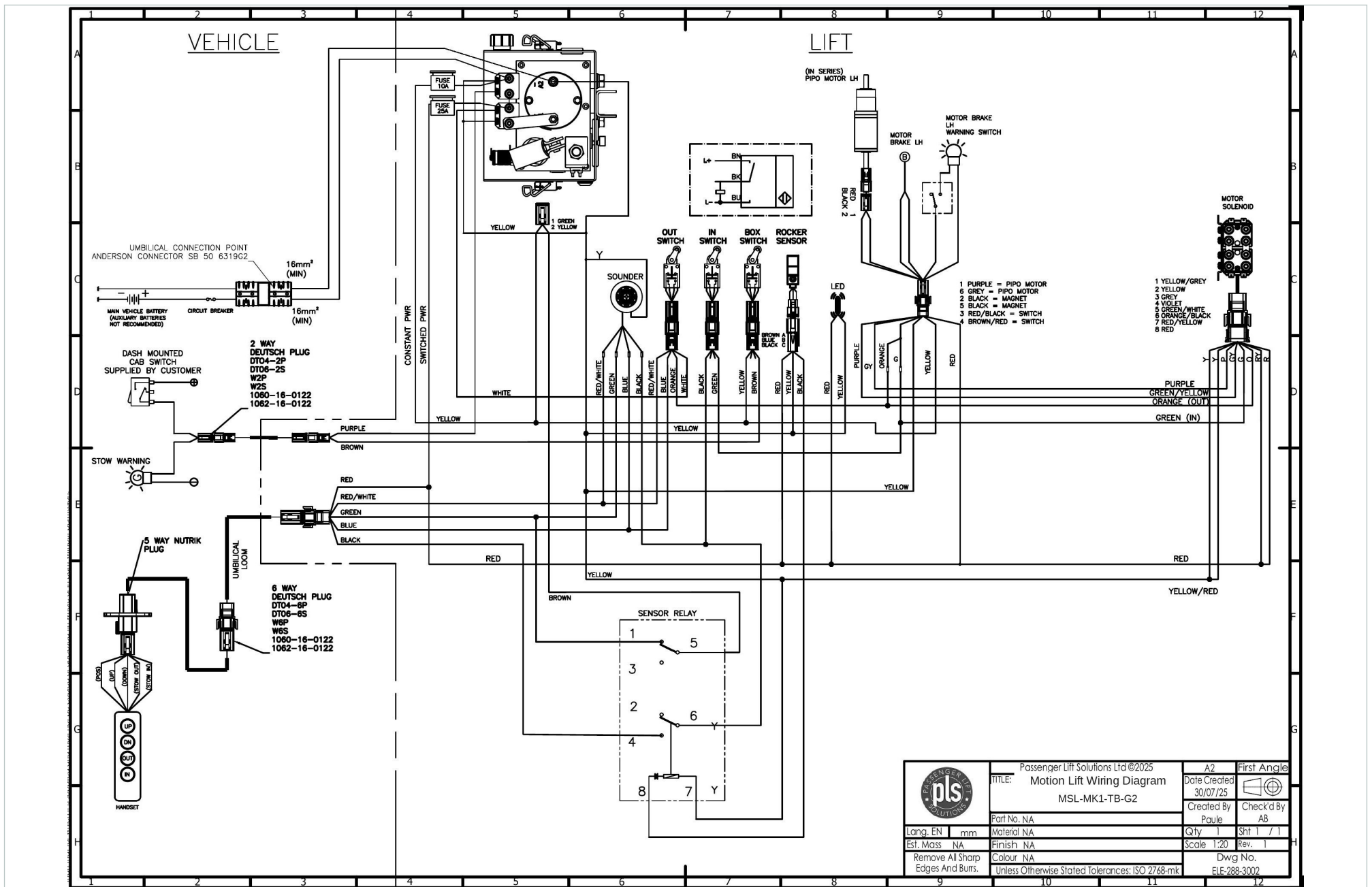
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ELERS/0011	Stainless Steel Pull Handle
2	1	EQSFABROR130401	Ramp Edge
3	2	EQSFABROR130402	EQ Ramp Piston Plate
4	1	EQSFABROR130410	EQ Ramp With Handles
5	2	FASBL/0613	M6 x 12 Socket Cap Head Screw
6	2	FASNT/0602	M6 Half Nut
7	8	FASRV/0013	3.2 x 12 Domed Head Rivet Aluminum
8	4	FASRV/9001	4.8 x 16 Dome Head Rivet Steel
9	54.900 m	HASCL/0002	50mm Yellow Cleating Roll 18.3m
10	1	HASCL/0740	Black Cleating 75 x 740mm





PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ACC27119	PC Valves-100420-Crash Valve New Type (Pair)
2	2	ACCFABARM50295-000	ACC Cylinder Rod Clevis STD
3	2	FASNT/1603	M16 Half Nut
4	2	HYDFITFEST0404	1/4" FE ST 1/4" TAIL (PLS I.D. 'Y')
5	2	HYDFITFRLK104	FERRULE 1 W RUBBER (PLS I.D. 'C')
6	2	HYDFT/0004	1/4 BSP Male Male Straight
7	2	HYDWA/0001	1/4 BSP Dowty Seal (Bonded Washer)
8	2	MHYDCYL272-4001	M Arm Cylinder







Passenger Lift Solutions

Smethwick · West Midlands · United Kingdom