



UK Version

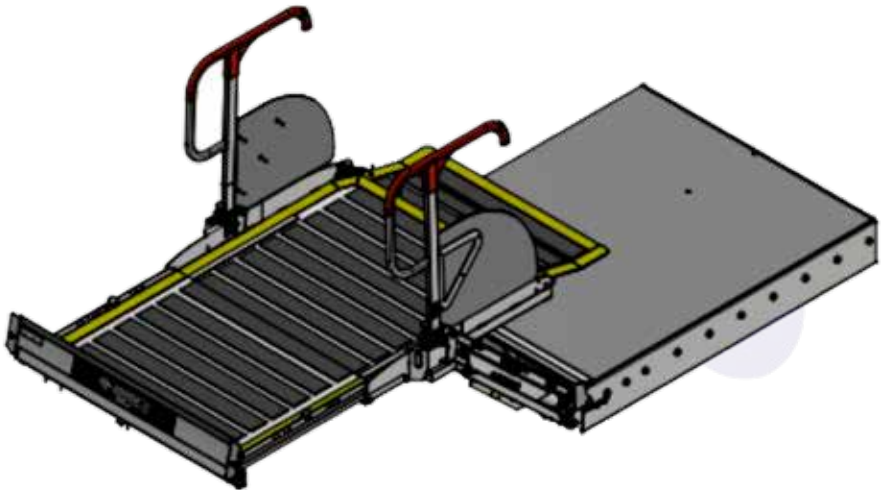


Revision: 1.4.5
Year: 2021
BS EN 1756-2:2004
and A1:2009

Instruction Manual

Access + ECO

ACC-1150, ACC-1200, ACC-1280, ACC-1300, ACC-1330, ACC-1380



Access + ECO

www.passengerliftsolutions.co.uk



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General

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1.1 Manufacture Access + ECO



Passenger Lift Solutions Limited

Unit 2, Summit Crescent Ind. Est.,
Smethwick,
West Midlands
B66 1BT. U.K.
Tel: +44 (0)121 552 0660

1.2 Manufacture Access + ECO

The lift device is manufactured in compliance with the relevant EC directives applicable on the date of entering the market. Considered a "medical device" pursuant to article 2, point 1), letter a), first paragraph of directive 2007/47/EC, the device carries a specific identification plate which, in addition to the specific technical data also includes the CE marking, guarantee of the compliance of the device to the directives/ standards referred to the enclosed Declaration of Conformity.

The plate, a facsimile of which is shown here, is printed with the data indicating the specific model and unit.

NOTE: The Lift Serial number will be required for ALL correspondence with factory



CUSTOMER NAME:	_____
INSTALLER NAME:	_____
DATE OF INSTALLATION:	_____
SERIAL NUMBER:	_____



IT IS PROHIBITED TO REMOVE OR TAMPER WITH THE IDENTIFICATION PLATE

1.3 Using the Manual Access + ECO

This manual aims to provide users and operators with all the information they require to ensure that they are able both to use the lift appropriately and are able to manage it as autonomously and safely as possible.

Before performing any operations on the lift, users and operators must carefully read the instructions given in this publication.

In the event of doubt over the correct interpretation of the instructions, contact the PLS technical department to obtain the required clarifications.

This manual is an integral part of the lift, it must be kept safely by the purchaser and made available for use by the 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; with a view to the continuous development and updating of its products, the manufacturer may modify the contents without notice.

It is prohibited to disclose, edit or use this manual for any other purposes.



This symbol indicates **IMPORTANT** Information used by the Manufacturer and the User.



This symbol indicates areas that need routine maintenance.



This symbol indicates Operators areas of responsibility.



This symbol indicates **IMPORTANT** areas for the Safe operation of the Lift.



This symbol indicates that a potentially hazardous situation could occur.



This symbol indicates improper use of the lift.



1.4 Operators Responsibility Access + ECO

The operator is individually responsible for the safe use and maintenance of the lift.

They are also responsible for the lift users and their own personal safety and in the event of an accident they will be prosecuted to the full extent of the law if they are deemed negligent.

Legal action will also be taken if any unauthorised modifications are made to the lift without direct prior written authority by a PLS director.



The lift owner is the person who purchases the product, uses or oversees the use of the lift, this person is legally responsible for the lift's safe use.



The accompanying person, also known as the operator is responsible for the safe operation of the lift.

The operator must be full trained in all the operation aspects of the lift such as the transportation of people with motor deficiencies or disabilities. The operator must exhibit the following characteristics/ attributes for them to safely operate the lift:

PHYSICAL – Possess the required physical qualities/ characteristics sufficiently to ensure safe operation of lift in a safe and controlled manner. Examples include:

- Good hearing & sight
- Physically capable of performing all operational functions of lift
- Not impaired by the consumption of legal and/or illegal substances (such as alcohol and/ or drugs)

MENTAL - Possess the required mental qualities / characteristics sufficiently to ensure safe operation of lift in a safe and controlled manner. Examples include:

- Understanding & application of the safety rules and procedures while operating the lift.
- Be constantly aware and pro-active to ensure the safety of the operator, user and nearby people.
- Have the knowledge/ skills to perform as an assistant and/ or operator in all aspects of lift operation. E.g. the safe transportation, loading and unloading of disabled and other passengers.

EMOTIONAL - Possess the required emotional qualities/ characteristics sufficiently to ensure safe operation of lift in a safe and controlled manner. Examples include:

- Work in a calm & safe manner while under stress so to prevent stress from impairing good judgement.
- To be emotionally stable during normal or abnormal situations

TRAINING – Possess the required training qualities sufficiently to ensure safe operation of lift in a safe and controlled manner. Examples include:

- Completed operational training supervised by an experienced operator in PLS lifts in an environment which is safe and controlled. Such supervised training should allow the trainee to gain working experience in all operation aspects of the lift.



The lift owner is responsible for distributing and ensuring that a copy of this manual is read and fully understood by all potential lift operators before operating the lift.



No operator will use the lift if they believe it is unsafe and doing so could injure themselves or others, they MUST report their concerns directly to their manager or PLS.



1.5 Health & Safety (Scooters) Access + ECO

Safety Instructions for 'Scooters' and Large Powered Wheelchairs

Before operating tail lift:

Fully familiarize yourself with lift controls, relevant safety procedures and possible hazards, signified by warning labels or highlighted in your 'Operators 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% slope in any direction).
- 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.

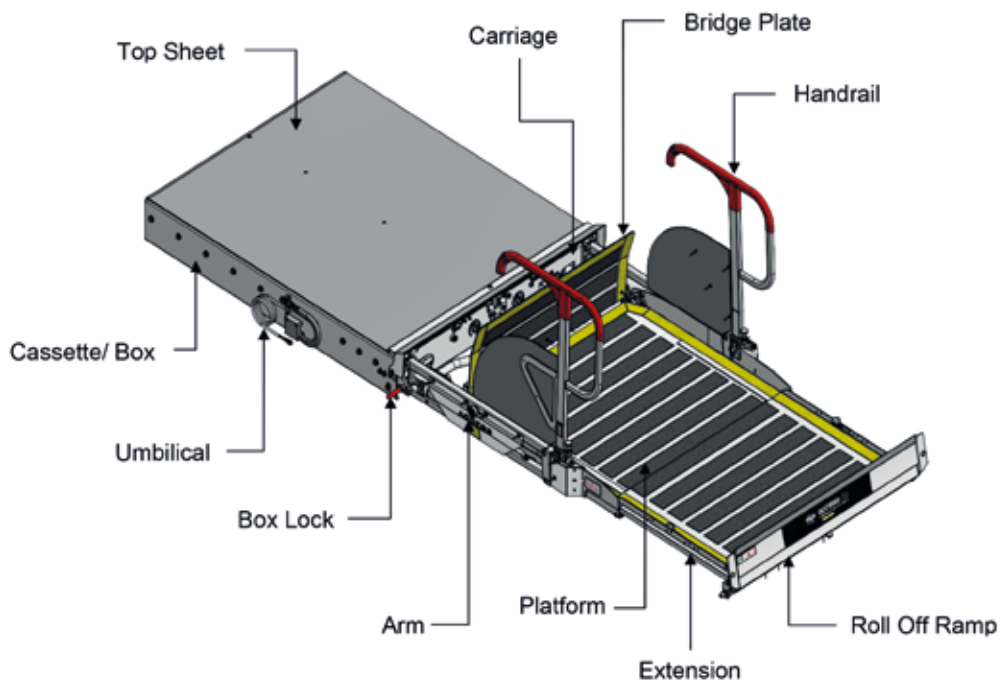
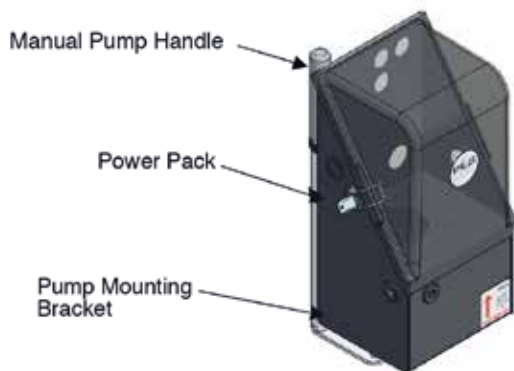
Loading & Unloading procedure:

- Explain to passenger the sequence of movements that will occur.
- Where possible the passenger should dismount scooter and board vehicle separately.
- Ensure that the lift platform and area around the lift are free from obstructions.
- Ensure that the lift platform is in the correct position before moving onto it.
- Scooter should be pushed onto the lift platform, NOT DRIVEN.
- Ensure that persons or equipment do not overhang the platform.
- Scooter breaks are applied BEFORE lift begins motion (or wheels blocked).
- All power to scooter is turned OFF.
- Operate lift platform to vehicle floor.
- Scooter is pushed off the lift platform, NOT DRIVEN.
- The scooter should be clamped to the vehicle floor using the correct equipment.
- 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, higher roll-off ramps to help combat the increased hazards related to larger passenger vehicle transportation.



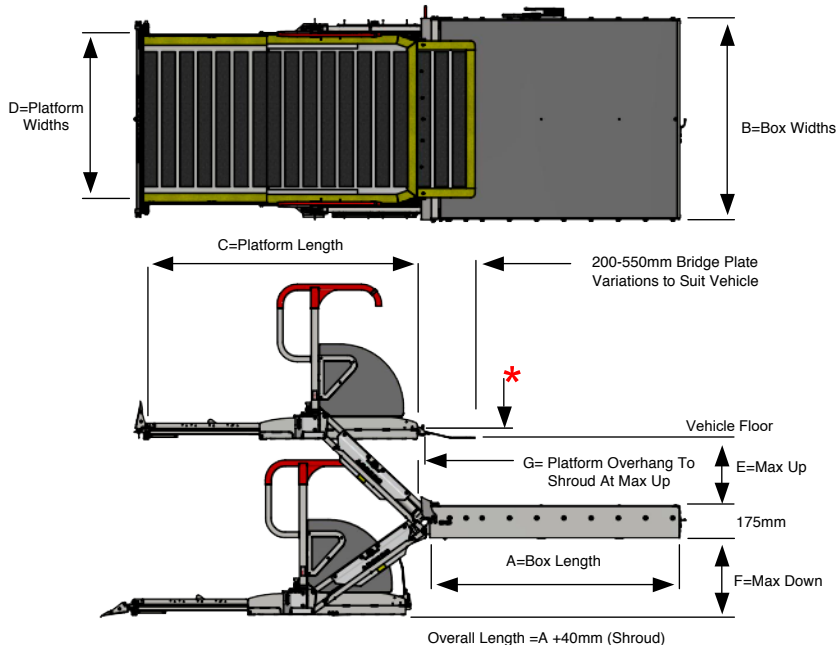
2.1 Main Components Access + ECO





2.2 Dimensions Access + ECO

REFERENCE ONLY, CONTACT MANUFACTURER TO CONFIRM SPECIFICATION



	ACC-1150	ACC-1200	ACC-1280	ACC-1300	ACC-1330	ACC-1380
A	1150mm	1200mm	1280mm	1300mm	1330mm	1380mm
B	1000mm	1000mm	1000mm	1000mm	1000mm	1000mm
	1100mm	1100mm	1100mm	1100mm	1100mm	1100mm
C	1390mm	1410mm	1410mm	1510mm	1410mm	1510mm
D	825mm	825mm	825mm	825mm	825mm	825mm
	925mm	925mm	925mm	925mm	925mm	925mm
E	325mm	390mm	435mm	390mm	435mm	435mm
F	365mm	395mm	465mm	395mm	465mm	465mm
G	95mm	100mm	70mm	100mm	20mm	70mm

* Platform Set Above Vehicle Floor

2.3 Technical Data Access + **ECO**

The Lift is designed To Transport:



One person in a wheelchair with or without an attendant, with a size not larger than the width/ length of platform space available, or weight over the stated 'SWL' capacity

Or:



Two walking passengers. The operator should not attempt to transport more than two people at a time of increased risk of passenger discomfort. The passengers also may require extra space for mobility devices such as sticks and frames

	ACC-1150	ACC-1200	ACC-1280	ACC-1300	ACC-1330	ACC-1380
SWL (Kg)	400	400	400	400	400	400
Voltage (DC)	12V	12V	12V	12V	12V & 24V	12V
Pressure (Bar)	130	140	160	140	160	160
Auxiliary Hand Pump	Yes	Yes	Yes	Yes	Yes	Yes
Lift Control	2 Button Handset	2 Button Handset	2 Button Handset	2 Button Handset	2 Button Handset	2 Button Handset

Note: Lift weight not including Power-pack & Installation Kit.
Pressure may vary depending on what compartment the Lift is fitted in.

3

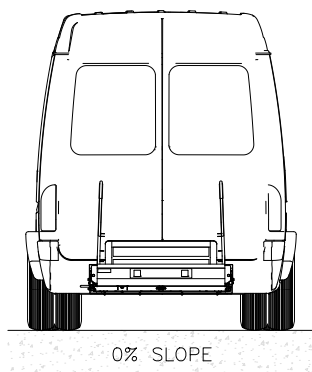
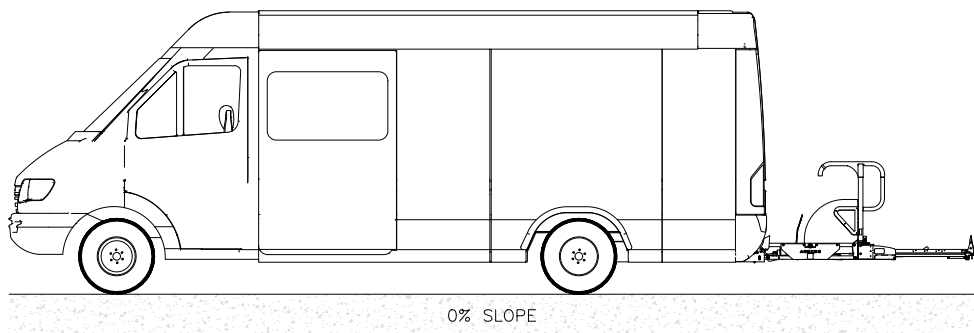
Product Use



3.1 Intended Use Access + ECO

The lift is designed for installation on the loading floor of a vehicle designed for transportation of the disabled in wheelchairs, within the limits of the performances and capacities indicated in the technical characteristics.

The lift must only be used by an authorised and trained operator, known as the accompanying person, who possesses the knowledge and physical requirements to safely perform operations with disabled persons.



Anything that is not specifically referred to in chapter 3.1 is considered **IMPROPER USE**.



THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR DAMAGE CAUSED TO PERSONS OR PROPERTY OR TO THE LIFT ITSELF DUE TO ANY USE OTHER THAN THAT DESCRIBED IN THIS MANUAL.



Product Use

3

3.2 Improper Use Access + ECO

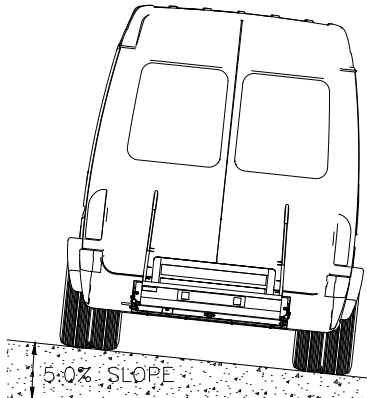
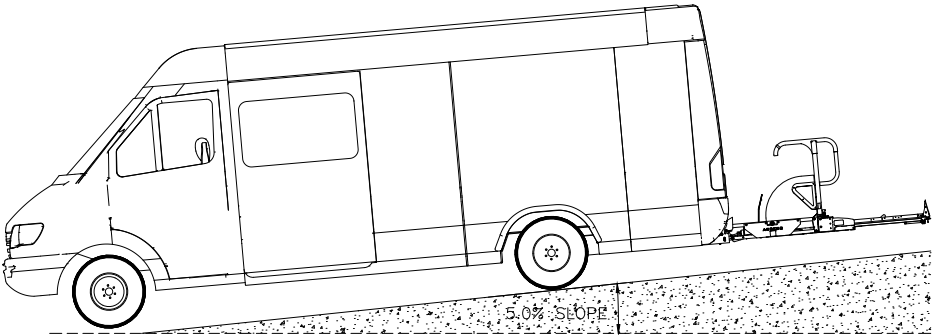
Anything that is not specifically referred to in chapter 3.1 is considered **IMPROPER USE.**



IT IS FORBIDDEN to climb onto the lift or any of its parts whilst in operation.

It is advisable to always attempt to use the lift on flat/ level ground.

The lift should not be operated if there is more than a 5.0% slope from level, in any direction. (refer to operation Risk Assessment).



Anything that is not specifically referred to in chapter 3.1 is considered **IMPROPER USE.**



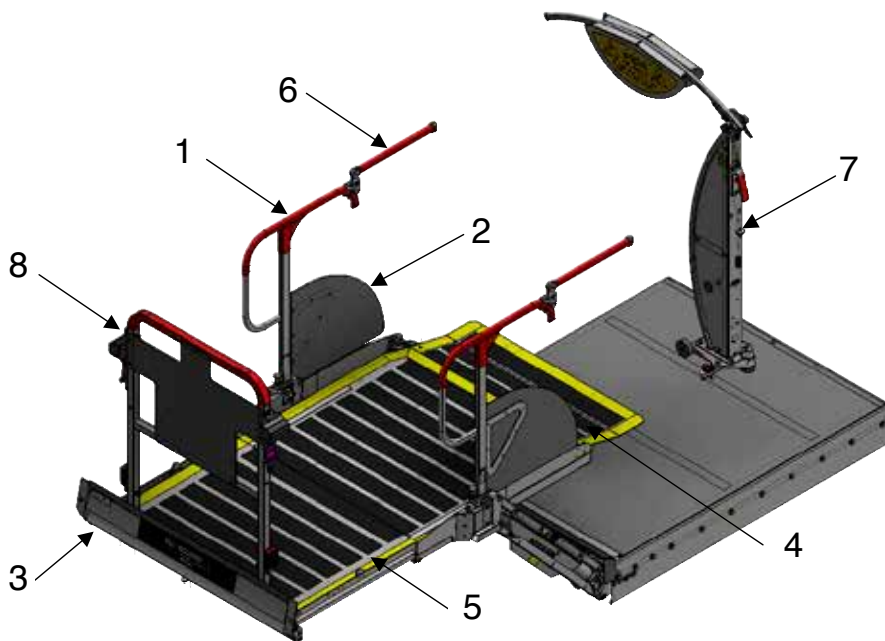
THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR DAMAGE CAUSED TO PERSONS OR PROPERTY OR TO THE LIFT ITSELF DUE TO ANY USE OTHER THAN THAT DESCRIBED IN THIS MANUAL.

4

Safety Devices



4.1 Description of Safety Devices Access + ECO



1	Handrail	Standard
2	Handrail Guard	Standard
3	Roll Off Ramp	Standard
4	Bridge Plate	Standard
5	Anti-Slip Surface Cleating	Standard
6	Handrail Extension	Optional
7	Door Safe	Optional
8	Stop Safe	Optional



IT IS FORBIDDEN TO DISABLE, REMOVE OR TAMPER WITH THE EXISTING SAFETY SYSTEMS.



Warning Labels & Stickers

5

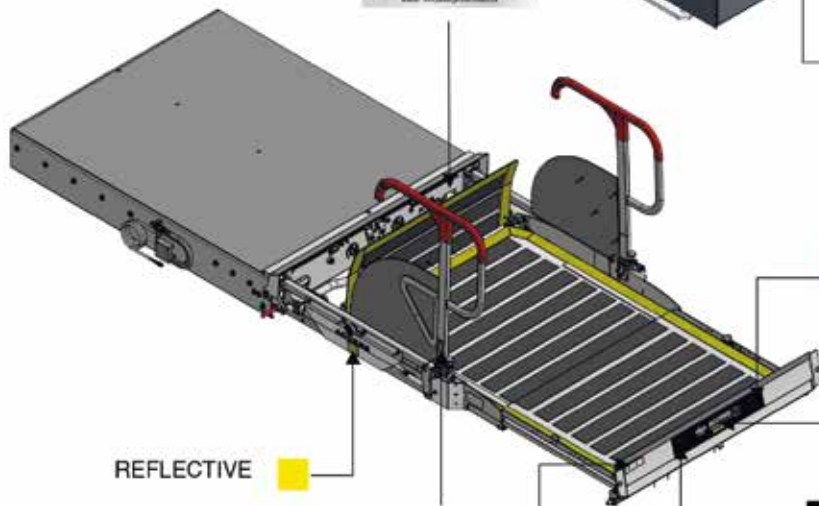
5.1 Description of Labels & Stickers Access + ECO



ACC25130-DB
Access Operation Instructions
Board



ACC 26469



REFLECTIVE



REFLECTIVE



REFLECTIVE





6.1 Receipt and Inspection Access + ECO

Upon delivery of the lift, you need to perform the following inspections:

- Ensure the product delivered corresponds to the relevant documentation e.g. the order specification and the transport document.
- Examine packaging to ensure it is undamaged and all parts are intact during transportation.
- With great care, examine all devices to ensure they haven't been damaged during transportation and all parts haven't been tampered or removed.
- Ensure all documentation required for installation has been supplied.



IF THE DELIVERED DEVICE DOES NOT COMPLY WITH THESE REQUIREMENTS, NOTIFY THE MANUFACTURER IMMEDIATELY.

6.2 Storing the Lift Access + ECO

If the lift is not used, proceed as follows:

- Transport lift to an appropriate storage area, free from atmospheric agents / elements.
- Ensure all electrical / electronic devices are insulated from external environment so to prevent humidity damaging those components.
- Storage area selected **MUST** ensure temperature variation is between 5°C to 50°C fresh hold.
- Ensure all sliding parts (guides, cylinders ...) are adequately protected from dust, rust and water damage.

Note: If a lift is to be dry stored for more than 12 months then all cylinder seals **MUST** be checked before operation.



STORAGE OF THE LIFT IN CONDITIONS THAT DO NOT COMPLY WITH THE ABOVE DESCRIPTION SHALL NULLIFY THE WARRANTY FOR ANY PARTS TO BE REPLACED.



6.3 Handling Access + ECO

All lifting and short workshop distance transportation of packages lifts must be carried out using a forklift truck.

Safe lifting can only be achieved when using suitably rated load capacity equipment (Please refer to Technical Data Table for indicated lift weight)



HANDLING STAFF MUST WEAR: SAFETY SHOES WITH STEEL TOE CAP AND NON-SLIP SOLES.



MAKE SURE THAT NO UNAUTHORISED PERSONS ARE STANDING WITHIN THE RADIUS OF ACTION OF THE LIFTING/HANDLING MEANS (FORK LIFT TRUCK, TRANSPALLET, ETC.) DURING THE LIFTING, TRANSPORT AND HANDLING OPERATIONS.

Procedures for packaging removal are explained below:

- Using a Stanley Knife with a maximum blade length of 10mm, cut along the 4 sides of the base of the packaging, remove tape and ensure waste cardboard is recycled
- For wooden crates, remove nails from top panel and those present on the side walls.



STAFF REMOVING THE PACKAGING MUST WEAR: SAFETY SHOES WITH STEEL TOE CAP AND NON-SLIP SOLES, GLOVES AND SAFETY GLASSES.

7.1 General Installation - Risk Assessment Access + ECO

Location: Passenger Lift Services Ltd		Rev No:								
Operation/Activity: Lift Operation										
List below the operations, in your opinion, which involve a significant hazard, risk of injury?	Severity		Likelihood		Risk Rating					
	1	2	3	4	5	1	2	3	4	5
Stability of lift during operation	2		1		2					
Entrapment from moving parts	2		1		2					
Slips, trips and falls	3		1		3					
Operating environment	3		2		6					
Manual operation of lift	2		3		2					
Contact with hazardous substances	2		1		2					
Fire	1		1		1					
List persons at		Operators	No injury just minor damage to plant, equipment or structure Minor injury – small cut or bruise Serious – medical treatment required – doctor or small injury clinic Major – attendance at hospital accident and emergency department Fatalities	Rare - may occur only in exceptional circumstances. (0-20% chance) Moderate - could occur at sometime. (41-60% chance) Likely - not surprised could occur several times. (61-80% chance) Certain - to be expected, will occur repeatedly. (81-100% chance)	18 Overall risk rating					
Risk rating has been defined taking into account the following control measures										
Control measures include (engineering quality control, specialist equipment information / instruction, Customer responsibilities maintained.										
Action Plan / Controls:- All lifts are supplied with safety instructions and safe operating procedures with visual instruction for the automatic and manual operation of lifts. Safety instruction is also generated and supplied for the use of lifts by scooters and large powered wheelchairs. Supply and fitted lifts have a weight test certificate and an installation and examination report completed by a competent engineer complying to; Lifting Operations and Lifting Equipment Regulations 1998. Additional controls are to be implemented and maintained by the end user, with six monthly inspections carried out on all lifting equipment conforming to; Lifting Operations and Lifting Equipment Regulations 1998.										
Has the overall risk rating been reduced to Low?		Controls are deemed adequate- proceed with the operation/activity			1-7					
Has the overall risk rating been reduced to Medium?	X	Consider additional controls, strict monitoring of controls required - proceed with caution			8-20					
Has the overall risk rating remained High?		Operation / activity is NOT to be undertaken until additional controls have been implemented - contact safety officer			21-30					
Can the risk be reduced to low by introducing additional preventative and/or protective measures? No See Risk Assessment Action Plan for additional precautions / controls to be implemented.										

Assessment carried out by:

Position:

Date:

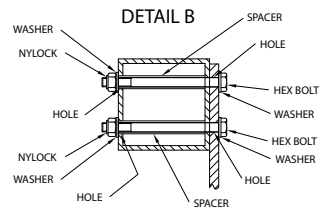
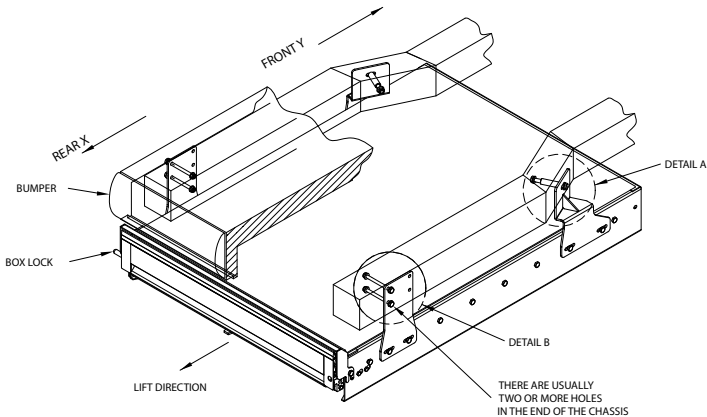
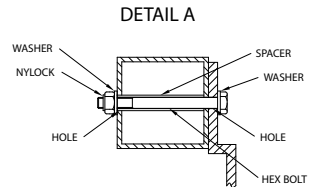
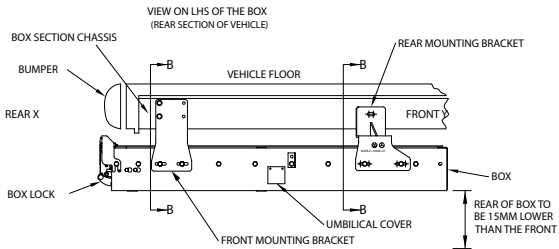
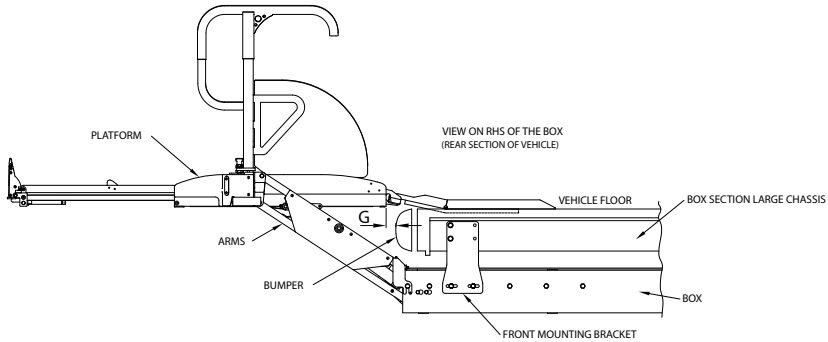
REMEMBER: REVIEW THE ASSESSMENT IF THE CIRCUMSTANCES CHANGE SIGNIFICANTLY



Installation

7

7.2 General Installation - Box Section Chassis Access + ECO

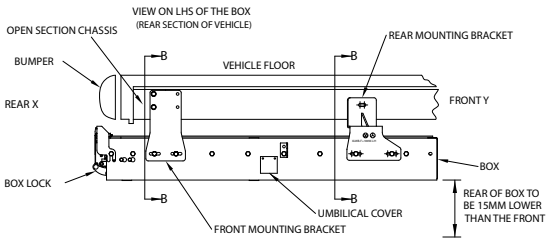
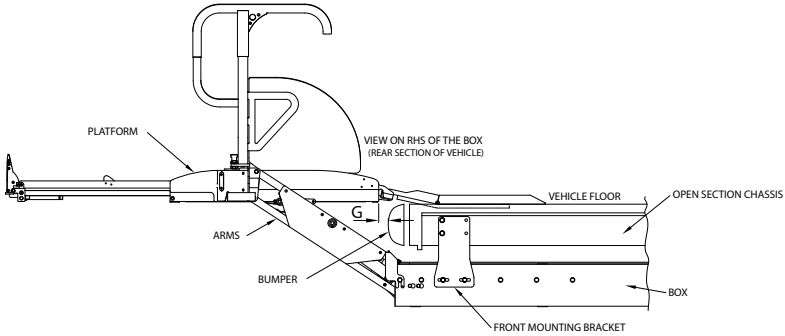


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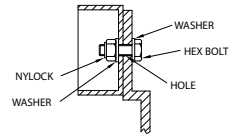
Installation



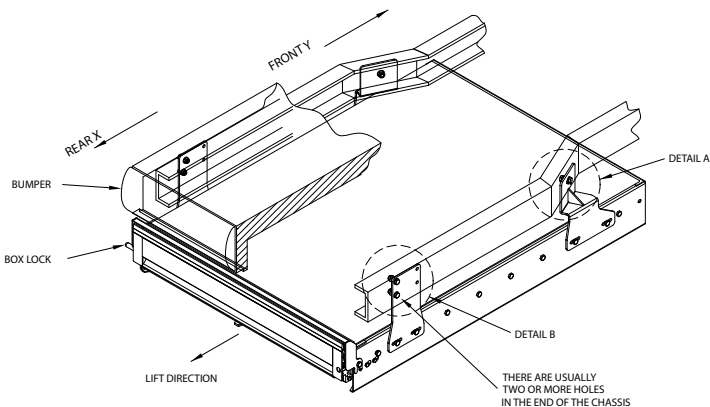
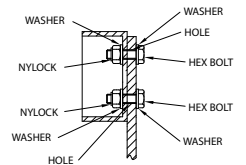
7.3 General Installation - Open Section Chassis Access + ECO



DETAIL A



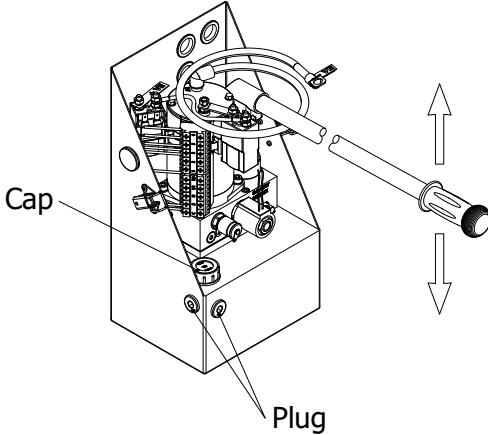
DETAIL B



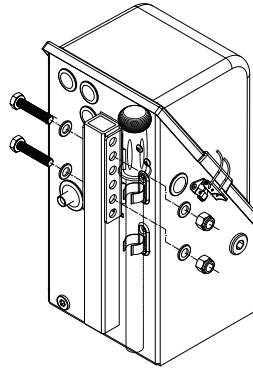


7.4 Power Pack Mounting Options Access + ECO

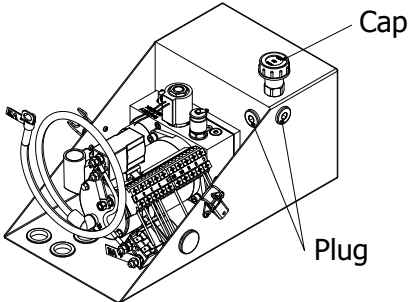
VERTICAL MOUNTING



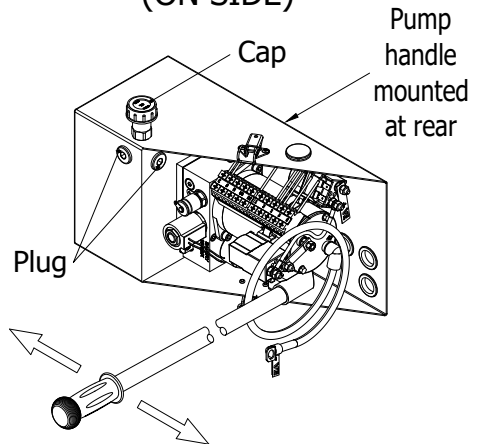
MOUNTING



HORIZONTAL MOUNTING (ON BACK)



HORIZONTAL MOUNTING (ON SIDE)



MOUNTING BRACKETS WILL VARY CONTACT PLS

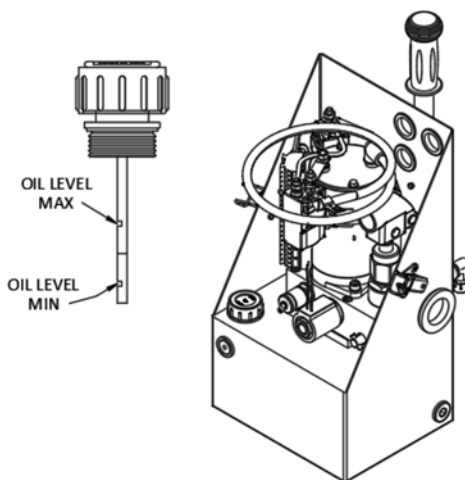
7.5 Checking the Power Pack Oil Level Access + ECO

Ensure Pump is clean during service life and not enclosed in wet or dry road debris. Externally mounted Pumps should not be submerged in water! Mud Guards or Splash protection is recommended for externally mounted pumps where possible. Oil level & condition must be visually checked during every service interval for contamination, every three years the oil tank MUST be completely drained, thoroughly cleaned and then refilled with filtered PLS Blue oil.

Before checking the Oil Level, ensure the vehicle is securely parked on flat level ground; operate the lift so that the lift platform sits completely on the ground.

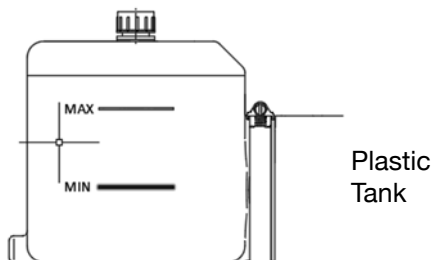
Metal tank with a dip stick:-

Ensure any loose dirt is removed from around the tank filler cap with a clean dry cloth. Remove Oil filler cap and wipe any residual oil from the dip stick using a clean dry cloth. Re-fit the dip stick fully into the Oil filler, remove and then check to see where the oil is indicated on the dip stick. If the oil is on or below the min mark then top up slowly with filtered PLS Blue oil only, repeat checking procedure as above until the oil is mid way between min/ max levels.



Plastic tank with NO dip stick:-

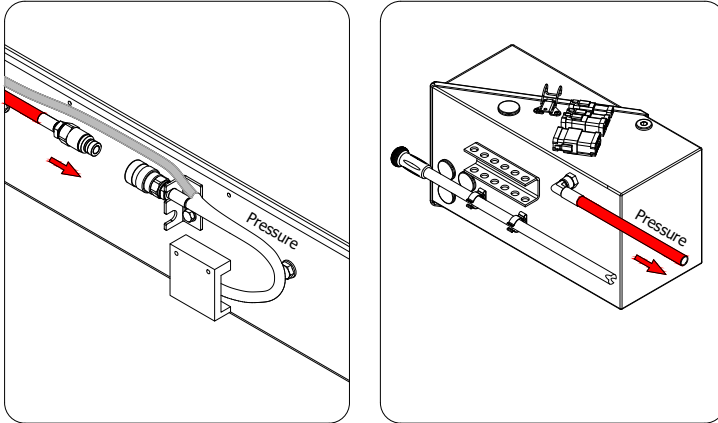
Ensure any loose dirt is removed from around the tank filler cap and oil level indicator marks with a clean dry cloth. Visually check the oil level within the translucent oil tank, if the oil is on or below the min mark then top up slowly with filtered PLS Blue oil only, repeat checking procedure as above until the oil is mid way between min/ max levels.



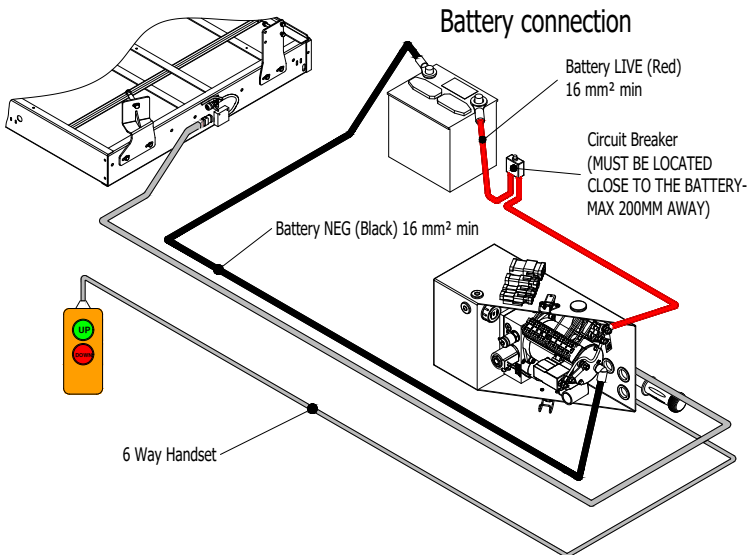


7.6 Hydraulic and Electrical Fittings Access + ECO

HYDRAULICS FITTING

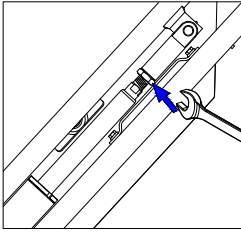


ELECTRICS FITTING

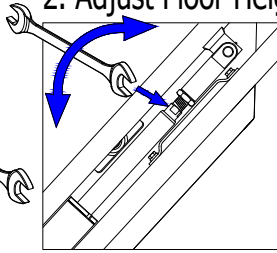


7.7 Floor Height Adjustment Access + ECO

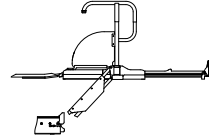
1. Loosen Lock Nut



2. Adjust Floor Height

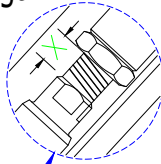
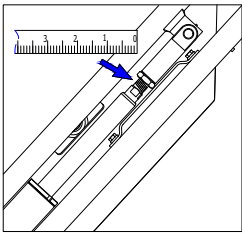


↑ Anti Clockwise = UP



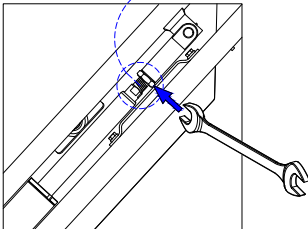
↓ Clockwise = DOWN

3. Check Thread Length

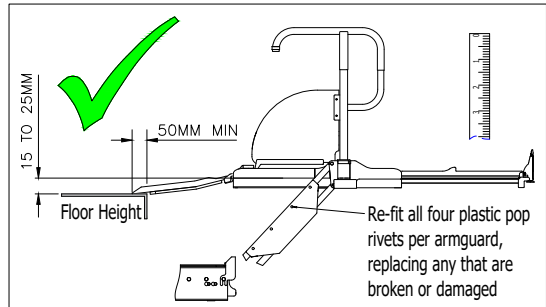


Thread Length 5mm To 20mm ✓
Thread Length Over 20mm ✗

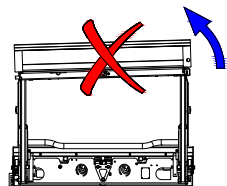
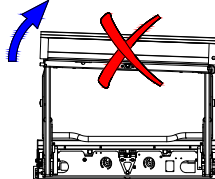
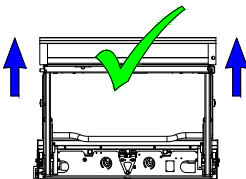
4. Lock



5. Check Floor Height



6. Check Cylinder Balance (kick)





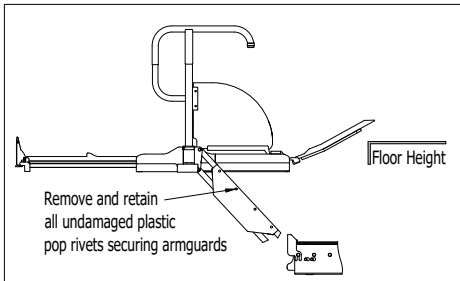
Installation

7

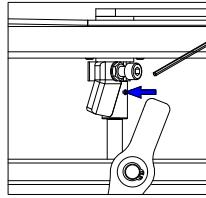
7.8 Bridge Plate Adjustment Access + ECO

Access is gained from underneath the platform

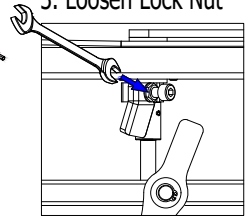
1. Lift position for Relax and Adjustment



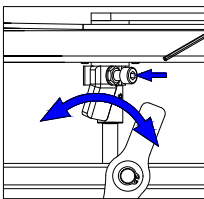
2. Loosen Grub Screw



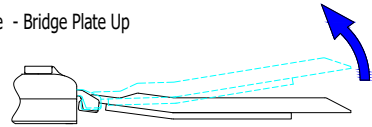
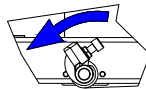
3. Loosen Lock Nut



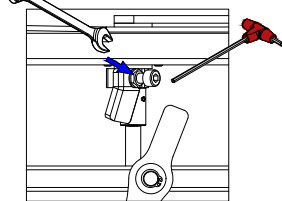
4. Adjust Bridge Plate



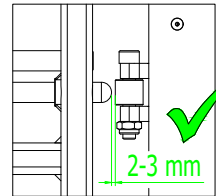
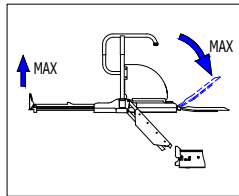
Anti Clockwise - Bridge Plate Up



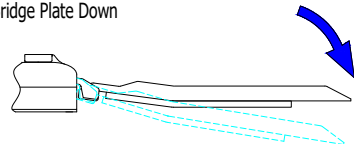
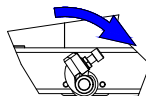
5. Lock



6. Check. Power Lift to Maximum Up Position



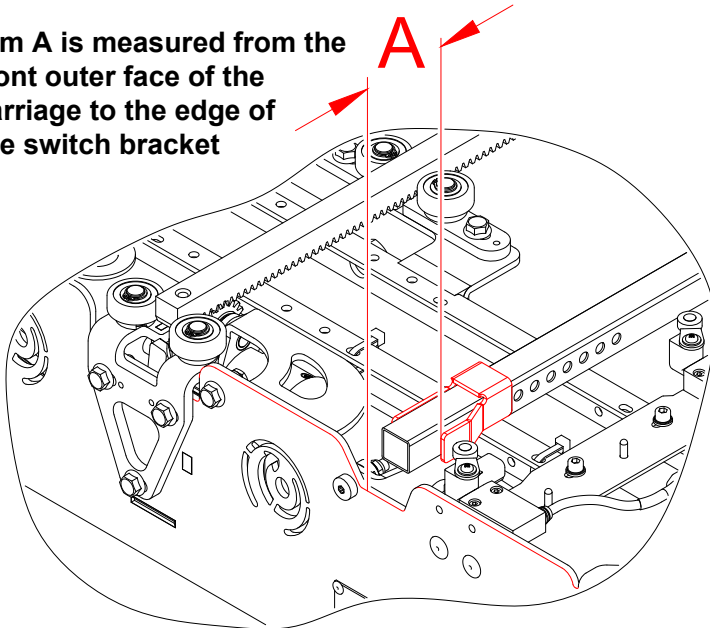
Clockwise - Bridge Plate Down



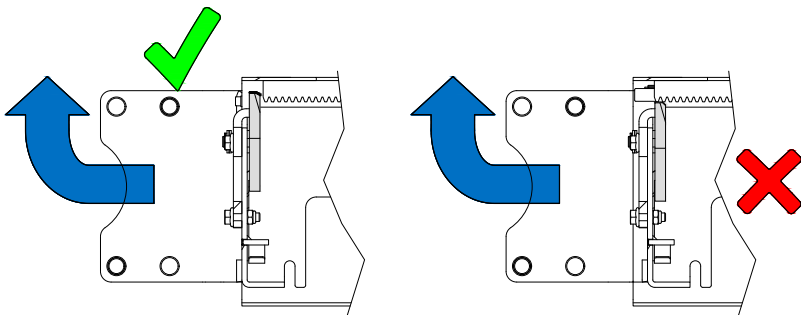
7.9 Switch Bracket Adjustment Access + ECO

Switch adjustment & operation must be checked during installation, servicing and maintenance.

Dim A is measured from the front outer face of the carriage to the edge of the switch bracket



Set dim 'A' between 35mm & 45mm.
Check if carriage lock is engaging correctly; change to suit if required.





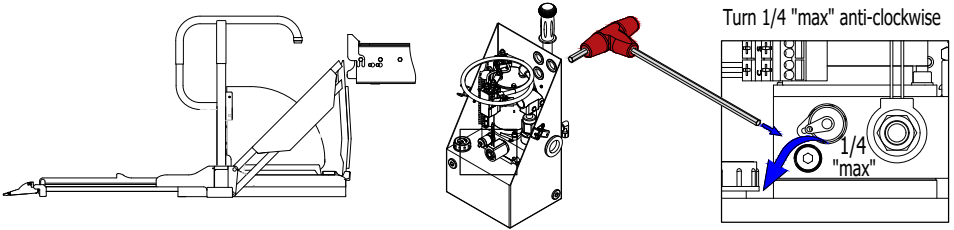
Installation

7

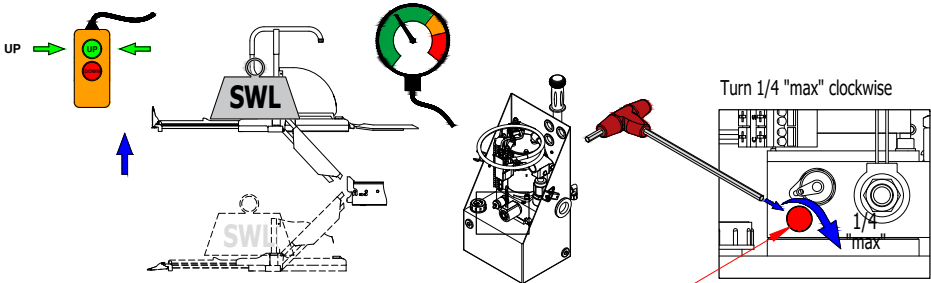
7.10 Weight Test Access + ECO

Dynamic

1 Reduce Power Pack Pressure

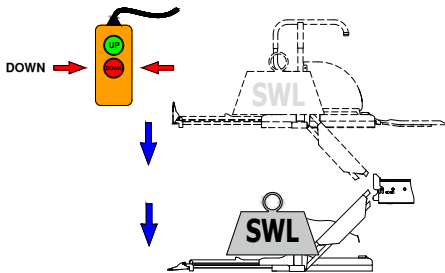


2 Power Up Lift, Increase Pressure Gradually To Lift

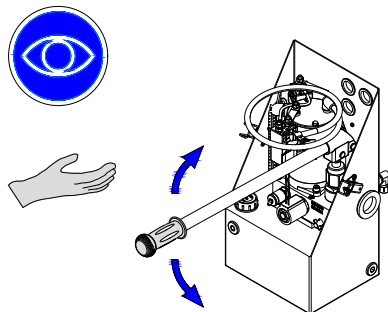


ENSURE "RED" SECURITY PLUG IS CORRECTLY FITTED AFTER FINAL ADJUSTMENTS

3 Power Down Lift



Check Manual Pump



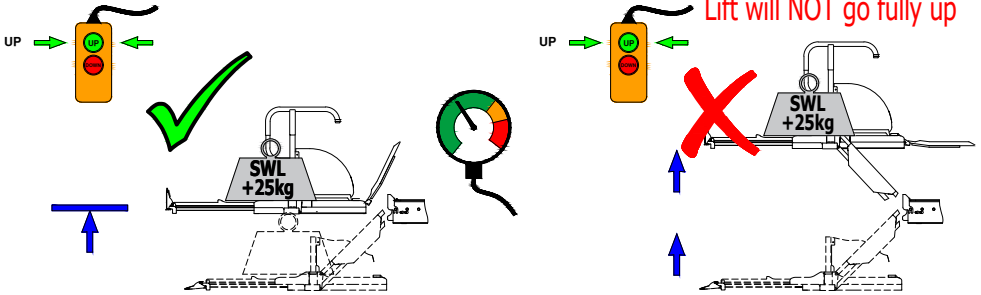
7

Installation

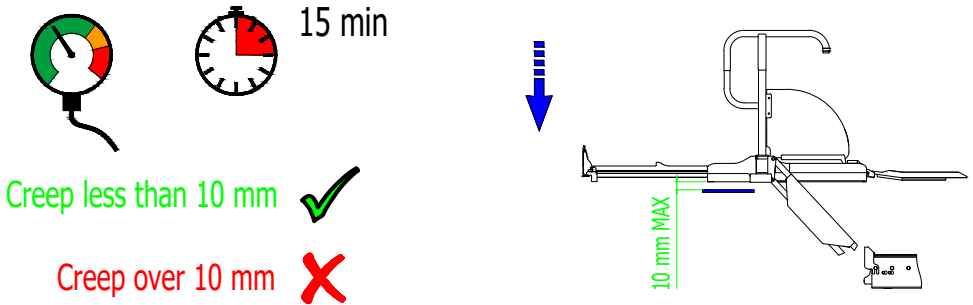


7.11 Installation Check List Access + ECO

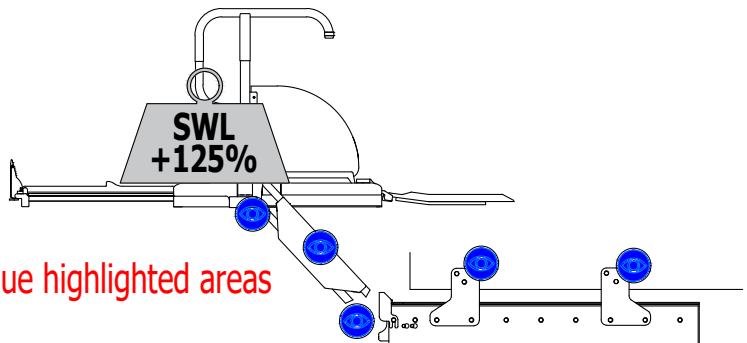
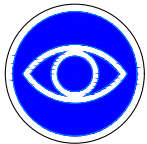
Overload



Drift



Static



Check all blue highlighted areas
AFTER test



Installation

7

7.12 Installation Check List Access + ECO

<u>Installation Checklist</u>		
Engineer Name:		
Date:		
Customer Details:		
Address Contact:		
Tel Number:		
Lift Serial Number:		
No	Item	Checked
1	Check lift to order supplied by PLS	
2	Dispose of any excess parts / materials appropriately	
3	Ensure enough time is allowed to install the lift in one full day	
4	Check vehicle is (Standard), anything other than (Standard) should be reported immediately. This includes spare wheels, fuel tank, modification of suspension, air conditioning unit, exhaust and all parts of exhaust	
5	Installation should commence in correlation to guidelines set out by PLS	
6	Hand control cable through door – Vehicle cable bush	
7	Door plug (Nutrik) 20mmØ hole required.	
8	Door switch 12mmØ hole. One required if no cab switch?	
9	Rubber boot on 70 amp isolator.	
10	Drill chassis 20mmØ, and used tube spacers.	
11	Shroud nitto plastic taken off.	
12	Bond top sheet on using correct adhesive, then use tape on box back holding top sheet in place (alloy tape to be used).	
13	Once lift is installed and correctly adjusted, Loler inspection certificate to be completed. A full weight test to be conducted in accordance with the weight certificate. (BS:EN 1756-2-2004 15 minute creep test)	
14	Note CORRECT bolts to be used: Track bolts only 20mm long. Through ANY bracket into track min 25mm to be used. Note: do note use 30mm bolts as these could pass through track and impede lifts operational performance.	



15	First weight test to be tested to 125% stated S.W.L load (I.e. 400kgs = 500kgs full test). Photographs are to be taken of the weight applied. CHECK BRIDGE-PLATE TO VEHICLE FLOOR.	
16	After load test, pump should be reset to (400kgs < 420kgs max)	
17	Once test weights are removed, to visually inspect lift / brackets / all fastenings, if necessary check with tools (Calibrated torque wrench)	
18	After load test check AGAIN Floor height & bridge-plate to floor. Bridge-plate should be over floor end by min 50mm, have a slight incline UP (not too steep) and no trip hazard is present (eg flush with floor).	
19	Cosmetics of the installation are standardised by the following:	
	o Operation board to be screwed in with appropriate fastenings	
	o Handset located in standard / correct position	
	o Handset cable correctly wired through door and door hinge	
	o Door or cab switch correctly installed and adjusted	
	o Hydraulic pump topped up to correct level of fluid	
	o All cabling correctly tightened and exposed ends rubber booted (correctly over terminal)	
	o Conduit on all cables	
	o 70 amp isolator relay routed on bracket (40 amp if 24V)	
	o Power pack is fused correctly as supplied by the factory, any modifications required or witnessed should be fully documented and reported to all parties concerned.	
	o Hand pump handle should be correctly clipped to power pack or customer's preferred location	
	o Pump c & s link wire taken out	
20	Lift to be fully cleaned down and checked in accordance with new equipment automotive supply. (Air blow and silicone, lubricate)	
21	Remaining photographs to be taken of lift fully up / lift fully down / lift cassette box from under vehicle, to include weight test photo. Photos to be emailed to Head Office	
22	Relevant manager to be contacted to inspect installation and sign off relevant paperwork	
23	Work area to be cleaned to a satisfactory level	



Installation

7.13 Torque Settings in Nm Access + ECO

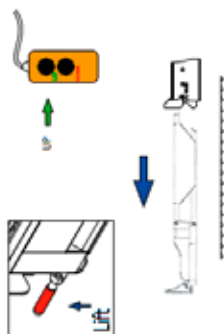

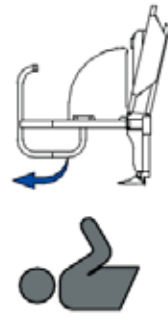
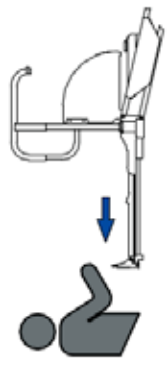
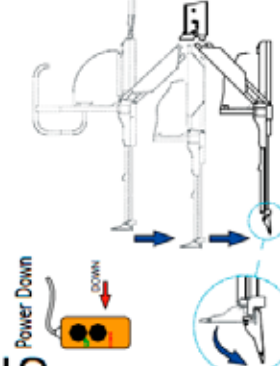
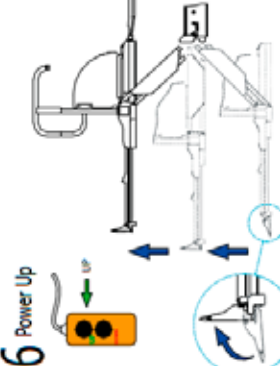
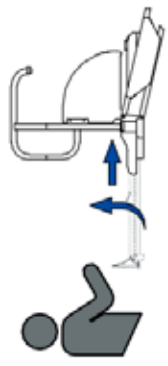
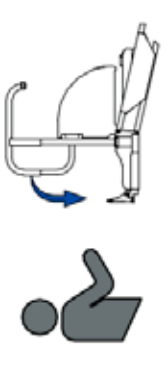
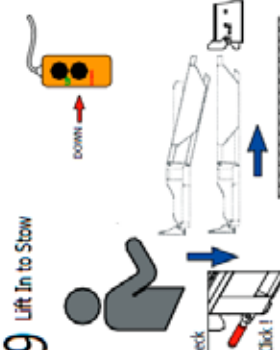
Thread Size	Tightening Torque Nm		
	Property Class		
HTS	8.8	10.9	12.9
M4	2.9	4.1	4.95
M5	5.75	8.1	9.7
M6	9.9	14.0	16.5
M8	24.0	34.0	40.0
M10	48.0	67.0	81.0
M12	83.0	117.0	140.0
M14	132.0	185.0	220.0
M16	200.0	285.0	340.0

Thread Size	Tightening Torque Nm		
	Property Class		
HTS Hex Flange	8.8	10.9	12.9
M6	9.0	14.7	16.8
M8	20.0	35.6	41.0
M10	40.0	70.6	81.0

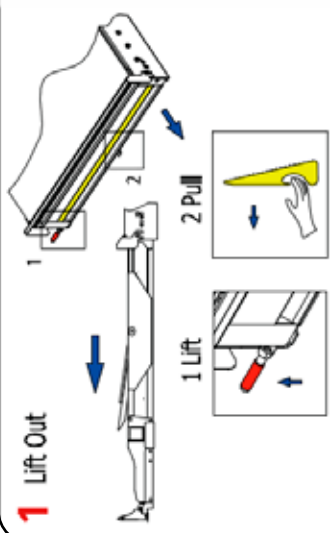
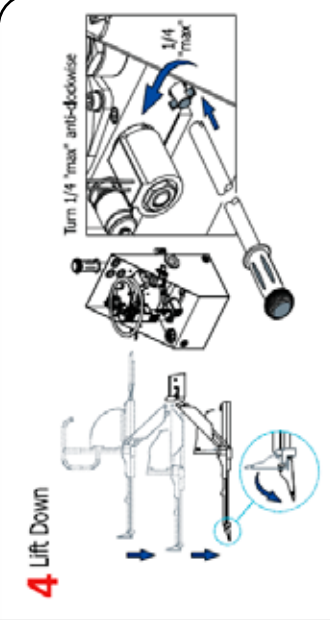
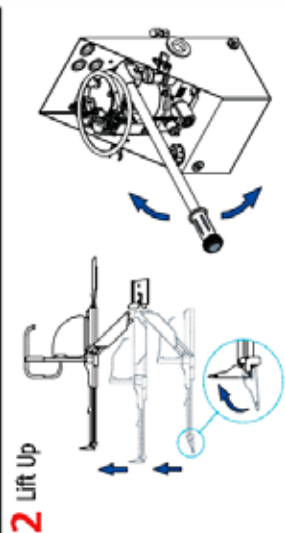
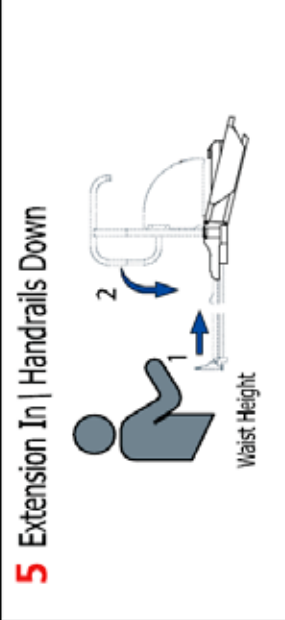
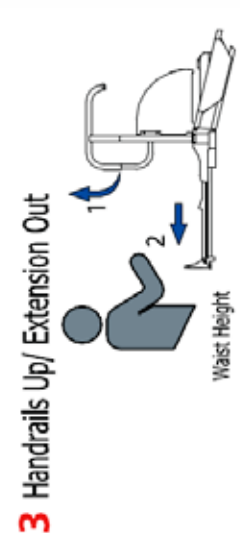
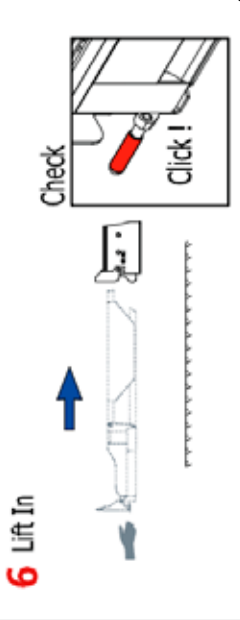
Thread Size	Tightening Torque Nm	
	Property Class	
Stainless Steel	A2-70	A4-80
M4	2.6	3.5
M5	5.1	6.9
M6	8.8	11.8
M8	21.4	28.7
M10	44.0	58.0
M12	74.0	100.0
M14	119.0	159.0
M16	183.0	245.0

Thread Size	Tightening Torque Nm
Hydraulic Fitting BSP	
1/8	17.0
1/4	34.0
3/8	47.0

8.1 Standard Access + ECO

<p>1 Lift Out</p> 	<p>2 Power Up to reach</p> 	<p>3 Raise Up Handrails</p>  <p>Ensure Handrails are Correctly Engaged</p>
<p>4 Pull Out Extension</p>  <p>Ensure Aluminium Drops and Locks</p>	<p>5 Power Down</p> 	<p>6 Power Up</p> 
<p>7 Lift Up Aluminium Push Extension In</p> 	<p>8 Fold Down Handrails</p> 	<p>9 Lift In to Stow</p> 

8.2 Manual Access + ECO

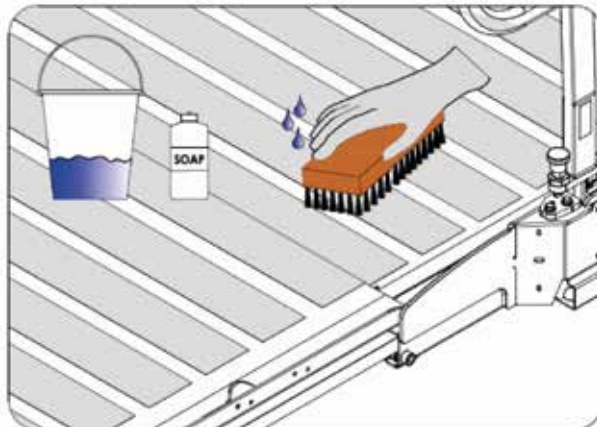
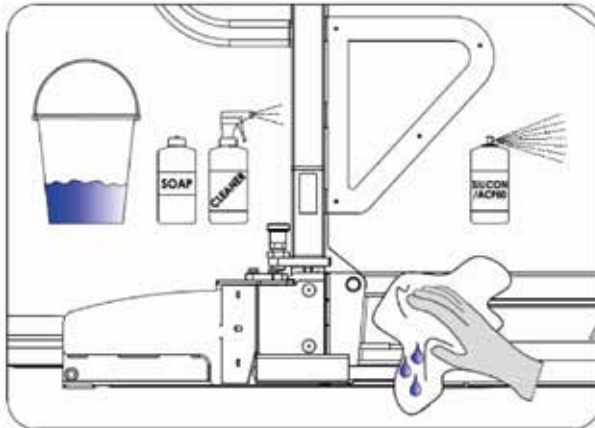
<p>1 Lift Out</p> 	<p>4 Lift Down</p>  <p>Turn 1/4 "max" anti-clockwise</p> <p>1/4 "max"</p>
<p>2 Lift Up</p> 	<p>5 Extension In Handrails Down</p>  <p>Waist Height</p>
<p>3 Handrails Up/ Extension Out</p>  <p>Waist Height</p>	<p>6 Lift In</p>  <p>Check</p> <p>Click!</p>

9.1 Cleaning Instructions Access + ECO

Great care needs to be taken during the cleaning process, all cleaning is to be carried out by hand using a gentle cloth or sponge soaked in non-aggressive detergent and then rinsed with a cloth dampened with water. Ensure all moving parts are re-lubricated where necessary.



**DO NOT USE AGGRESSIVE DETERGENTS.
DO NOT USE WATER JETS OR HOT WATER JET CLEANERS.**



Check and re-lubricate parts as described in section 10.7



Service & Maintenance

10

10.1 Warranty Access + ECO

Warranty Cover & Period

The PLS Warranty covers parts and labour, and is effective for 36 months from the date of initial commission by PLS or a certified authorised engineer.

If the date of initial commission is in excess of 90 days from date of despatch, the warranty will start from the date of despatch.

Procedure:

1. To qualify for this warranty, it is necessary to register the Lift and Vehicle details on line www.passengerliftservices.co.uk or via post within 45 days of the initial LOLER inspection.
2. An operator requiring attention to a unit will contact PLS directly and quote the lift serial number.
- 3.
4. PLS will then instruct a company engineer or an authorised approved Service Agent by issuing an official order number to affect the repair.

NB: ANY WORK CARRIED OUT WITHOUT AUTHORISATION WILL NOT BE REIMBURSED.

Conditions:

Warranty does not extend to lifts that have not been regularly serviced by a PLS engineer, or factory trained and authorised engineer. This includes the 6 monthly LOLER inspection and separate weight test, which must be current at the date of the Warranty Claim.

All previous LOLER and Weight Test Certificates must have been copied to PLS and run concurrently.

The lift must be made available during the hours of 08.30 and 17.00, Monday to Friday excluding public holidays.

No delivery costs or travel time will be reimbursed except by prior agreement, as specified on the original Purchase Order.

The initial Warranty period applies to original parts only. Replacement parts changed under warranty, and new parts purchased, carry 12 months warranty only.

New parts that have been purchased and require a warranty repair will require either a copy of the original Purchase Order or details of the original Purchase Order number to qualify.

The serial number(s) for the component claiming warranty must match the serial number(s) recorded to the lift it was originally fitted to.

If a customer has an invoice unpaid beyond PLS terms and conditions or is in dispute customers lift will not be visited.

Warranty Exclusions:

Hydraulic Power packs that are fitted to the exterior of the vehicle only carry 12 months warranty (if cover is missing warranty void).

Hydraulic Power packs fitted to the interior of the vehicle qualify for the 24 months warranty.

The following are all excluded from warranty:

Consumable parts e.g. Fuses, Bulbs, Electrical Connectors, Bearings, Hydraulic Hoses (with the exception of manufacturing defects). Fastenings which should be checked at the service intervals. Driver misuse Accident damage. Items that are subject to the level of wear & tear which would normally involve replacement during normal service, maintenance and operating conditions.

Handsets carry 12 months warranty only.

No claim will be accepted for:

Replacement vehicle hire or loss of earnings.

The Warranty Agreement does not supersede the Suppliers liability for all components as defined in the Sale of Goods act 1982.

Months 24 to 36 of the Warranty:

The vehicle will be required to be returned to the PLS Factory for 'free of charge' warranty work.

When this is not possible, labour and travel will be charged at the current PLS hourly rate, weather it is a PLS engineer or an agent working on behalf of PLS Ltd that conducts the repair.

If an agent is used, it will be at the discretion of PLS Ltd as to who will affect the repair.

Any parts sent to an agent for warranty work within the 24-36 Month period, will incur the relevant courier costs at commercial rates, and will be at the expense of the customer.

Extended Warranty:

Extended Warranty is available for months 37-60 with a written agreement of PLS Ltd, initiated BEFORE month 37 starts.

This warranty will follow the same basis as the 24-36 month period.

Extended Warranty does not include Power packs, motors, hydraulic cylinders and hoses.

Passenger Lift Services Ltd,
Unit 2, Summit Crescent, Smethwick, West Midlands. B66 1BT
enquiries@pls-access.co.uk • www.passengerliftservices.co.uk
Tel: 01215520660 fax: 01215520200





10.2 Loler Access + **ECO**



This lifting equipment is covered by the
“Lifting Operations & Lifting Regulations Act 1998. “LOLER”.

It is the lift operating company or duty holders responsibility to ensure that
at regular **SIX** monthly intervals this equipment is **INSPECTED,**
SERVICED & WEIGHT TESTED by a competent tail lift engineer.

For more information, please contact
PLS Service Department direct line:

0121 559 0466



Service & Maintenance

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10.3 Daily Inspections Access + ECO

Lift Inspection checks are required on a DAILY basis by the lift operating company. The working life of your lift will be greatly prolonged if these steps are adhered to. This should include the following:

Daily Inspection Check List		Lift no:
		Vehicle Reg:
Engineer's Name:		Date:
Customer Details:		
Address, Contact:		
Tel Number:		OK
1	Check oil level visually using the dip stick 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 damage.	
4	Check for obvious signs of damage, and notify as manager if necessary.	
5	Ensure that 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	Ensure the Platform is clean and dry.	
9	Ensure the Box Lock is working correctly.	
10	Ensure the Carriage centre lock is working correctly.	
11	Ensure the Handrails are clean, working correctly and rust free.	
12	Ensure the Handrail guards are present and undamaged.	
13	Ensure the Roll-Off-Ramp operates correctly and lands on the ground.	
14	Ensure the warning lights are operating correctly before using the lift (If fitted).	

IF IN DOUBT, CONTACT THE MANUFACTURER



10.4 Weekly Inspections Access + ECO

Lift Inspection checks are required on a weekly basis by the lift operating company. The working life of your lift will be greatly prolonged if these steps are adhered to. This should include the following:

Weekly Inspection Check List		Lift no:
		Vehicle Reg:
Engineer's Name:		Date:
Customer Details:		
Address, Contact:		
Tel Number:		OK
1	Check oil level visually using the dip stick 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 damage.	
4	Check for obvious signs of damage, and notify as manager if necessary.	
5	Ensure that 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	Ensure the Platform is clean and dry.	
9	Ensure the Box Lock is working correctly.	
10	Ensure the Carriage centre lock is working correctly.	
11	Ensure the Handrails are clean, working correctly and rust free.	
12	Ensure the Handrail guards are present and undamaged.	
13	Ensure the Roll-Off-Ramp operates correctly and lands on the ground.	
14	Ensure the warning lights are operating correctly before using the lift (If fitted).	

IF IN DOUBT, CONTACT THE MANUFACTURER



Service & Maintenance

10

10.5 Monthly Inspections Access + ECO

Lift Inspection checks are required on a MONTHLY basis by the lift operating company.

The working life of your lift will be greatly prolonged if these steps are adhered to.

This should include the following:

Monthly Inspection Check List		Lift no:
		Vehicle Reg:
Engineer's Name:		Date:
Customer Details:		
Address, Contact:		
Tel Number:		OK
1	Check oil level visually using the dip stick 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	Check for obvious signs of damage, and notify as manager if necessary.	
4	Ensure that 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/ dry & Platform extension legs are correctly lubricated using ACF-50 Silicone spray.	
8	Ensure the Box Lock is working correctly & lubricated using ACF-50, or Silicone spray.	
9	Ensure the Bridge plate is working correctly & lubricated using ACF-50, or Silicone spray.	
10	Ensure the Bridge plate springs are correctly lubricated using copper slip.	
11	Ensure the Carriage centre lock is working correctly.	
11	Ensure the Handrails are clean, working correctly and rust free.	
13	Ensure the Handrail guards are present and undamaged.	
14	Ensure the Handrail bases/ mechanisms are working correctly & lubricated using ACF-50, or Silicone spray.	
15	Ensure the Roll-Off-Ramp operates correctly and lands on the ground.	
16	Ensure Micro switch is working correctly & lubricated using ACF-50, or Silicone spray.	
17	Ensure the warning lights are operating correctly before using the lift (If fitted).	

IF IN DOUBT, CONTACT THE MANUFACTURER



10.6 Six Monthly Inspections Access + ECO

For Factory Trained Lift Engineers

As monthly safety checks plus:

Six Monthly Inspection Check List		Lift no:
		Vehicle Reg:
Engineer's Name:		Date:
Customer Details:		
Address, Contact:		
Tel Number:		OK
1	Check all fixing bolts and brackets connecting lift onto vehicle chassis.	
2	Remove pump box cover and check hydraulics / electrics for wear or damage.	
3	Check lifting cylinders for leaks, change seals if necessary. Adjust/tighten hoses if required (35 N/m of torque for hydraulic fittings).	
4	Remove outside 'arm side guard' cover. Check bridge plate gas strut operation. Check all linkages, fittings and wheels for wear. Tighten & replace if necessary.	
5	Check all visible hoses and fittings for leaks or damage.	
6	Check handrail fittings are tight.	
7	Check condition/security of arm side guards.	
8	Check all fittings are tight particularly the arm pins.	
9	Check bridge plate and platform hinges for correct operation.	
10	Check roll-off ramp assemblies for correct operation.	
11	Check vertical stow rubber for wear (located in rear corners of platform).	
12	Check condition of SWL sticker and other lift decals.	
13	Coat all electrical connections with petroleum jelly or proprietary electrical grease.	
14	Check hand pump operation, lubricate all pivot points. REMEMBER TO RETURN MANUAL-TAP(S) TO THEIR ORIGINAL POSITION.	
15	Perform weight test in accordance with current Loler standards.	
16	Ensure that all grease points, Cam followers, Centre rack, Centre bearing assembly & Carriage Drive pinions are correctly lubricated.	

IF IN DOUBT, CONTACT THE MANUFACTURER

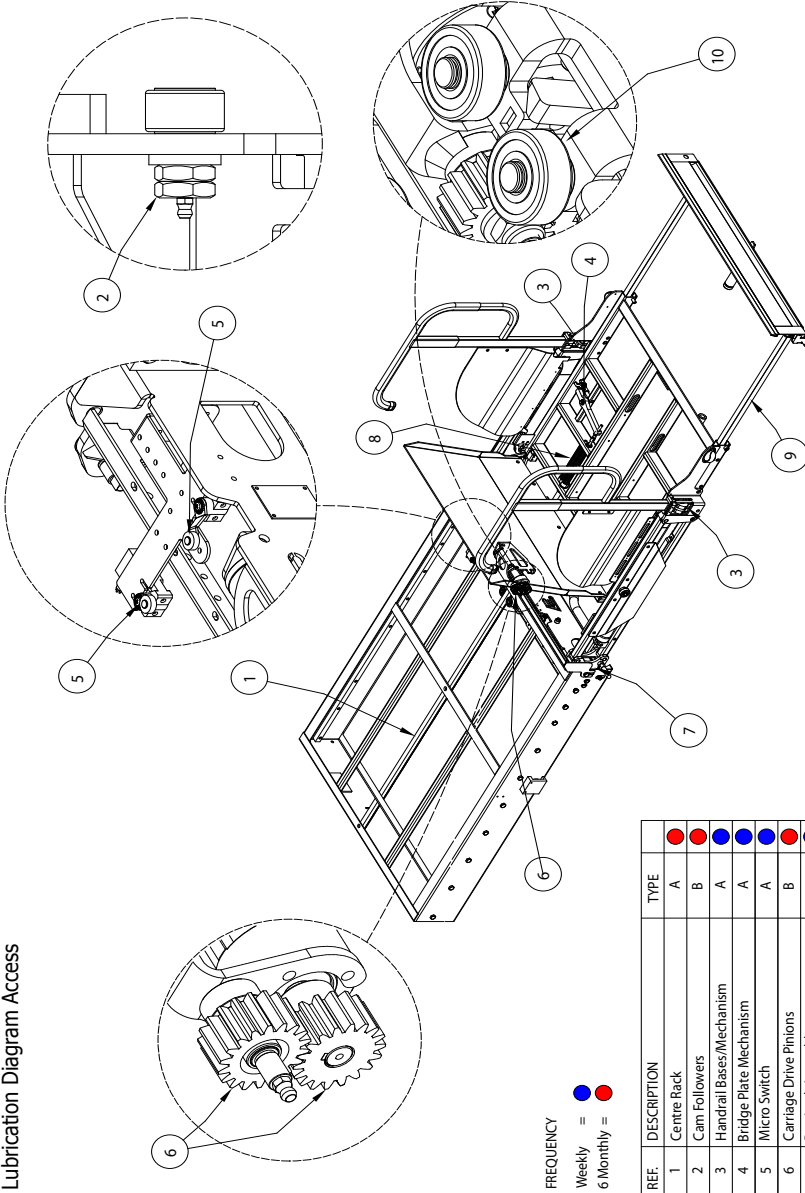


Service & Maintenance

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10.7 Lubrication Access + ECO

Lubrication Diagram Access



FREQUENCY
 Weekly = ●
 6 Monthly = ●

REF.	DESCRIPTION	TYPE
1	Centre Rack	A ●
2	Cam Followers	B ●
3	Handrail Bases/Mechanism	A ●
4	Bridge Plate Mechanism	A ●
5	Micro Switch	A ●
6	Carriage Drive Pinions	B ●
7	Box Lock Assembly	A ●
8	Bridge Plate Springs	A ●
9	Platform Extension Legs	C ●
10	Centre Bearing Assy	B ●
	All Other Springs	A ●

TYPE	LUBRICATION SPECIFICATION
A	ACF50
B	LITHIUM GREASE EP-2
C	HEAVY DUTY SILICON TYPE 40

*Lift MUST be cleaned, lubricated and maintained in accordance with current LOLER regulations. Do not Grease any components externally as this attracts dirt and dust.



10.8 Check List Access + ECO

LOLER / SERVICE Repair Check List		Lift no:		
Engineer's Name:		Vehicle Rag:		
Customer Details:		Date:		
Address, Contact:				
Tel. Number:		Poor	Ok	Good
1	Ramp stop (roll-off) operation/condition			
2	Condition of ramp stop cylinder (corrosion, leaks, loose caps)			
3	Bridging plate operation/condition			
4	Carriage lock and rocker(s) working correctly			
5	Platform stability			
6	Platform extension operation (stops tight)			
7	Platform stowage set correctly			
8	Handrail and side guard operation/condition			
9	Cleating and wearstrip condition			
10	All set pins secure/ Grub screws tight			
11	All fasteners tight			
12	In/Out Motor operation/condition/ check top cog			
13	Condition of all bearings and camfollowers/ grease x 4			
14	Umbilical hose condition			
15	Check lift isolator (cab or door switch)			
16	Condition of lifting cylinders (corrosion, leaks, loose caps)			
17	Up/Down hydraulic pump operation/condition (relief valve) with SWL on lift			
18	Hand pump operation/condition/ check tightness			
19	All hoses in good condition/ arm hose/ cylinder hoses and platform pipe & hose.			
20	Hydraulic fittings in good condition/ ports on power pack tight			
21	Wiring loom condition (crimps, fuse holder, earth wires, etc)			
22	Box lock operation/condition			
23	Condition of box tracks (not bent or indented)			
24	Top and bottom sheets secure			
25	Box brushes present and secure			
26	Condition of stowage box and fitting brackets			
27	Lift correctly lubricated/ cam followers / extension/ switches and cam and cranks.			
28	If powermatic, in/out operation & switches set correctly			
29	Speed of operation acceptable			
30	Handset condition			
31	Labels and operating instructions			



Service & Maintenance

10

33	LOLER sticker correctly fitted and displayed			
34	Fluid levels to correct level.			
Engineers Comments				



11.1 Safe Disposal Access + ECO



PLS Environmental & Lift End of Life Policy:

All materials used in the construction of our products are widely recycled. The Company also offer a full 100% and certificated service which provides for your Lift to be sustainably recycled, please enquire for more information.

Generally the machine should be disassembled and identical materials grouped together these must then be disposed of in accordance with local environmental legislation.

Contact the local Authority to ensure that specific materials such as lubricants, electrical/ electronic components are disposed of correctly.



YOU MUST RETURN THE MACHINE ID PLATES AND ANY OTHER CONNECTED DOCUMENTS TO PLS WHEN THE PRODUCT HAS BEEN RECYCLED.

Passenger Lift

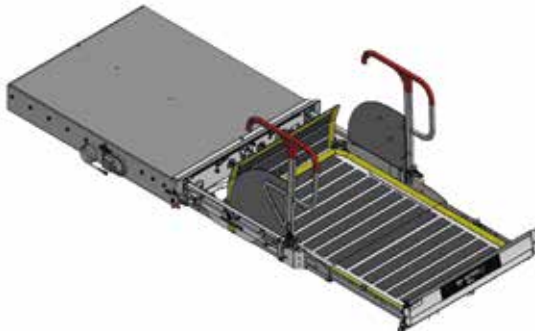
Materials	Percentage (%)
Metal	81.6
Oil	0.56
Electrical	1.4
Plastics	3.3
Rubber	0.14
Aluminium	11.6
Hose	1.4

Information based on Average Lift

Hydraulic Power Pack

Materials	Percentage (%)
Metal	43.75
Oil	16.6
Electrical	16.6
Plastics	2.5
Rubber	0
Aluminium	18.58
Hose	2.0

Information based on Average Power Pack





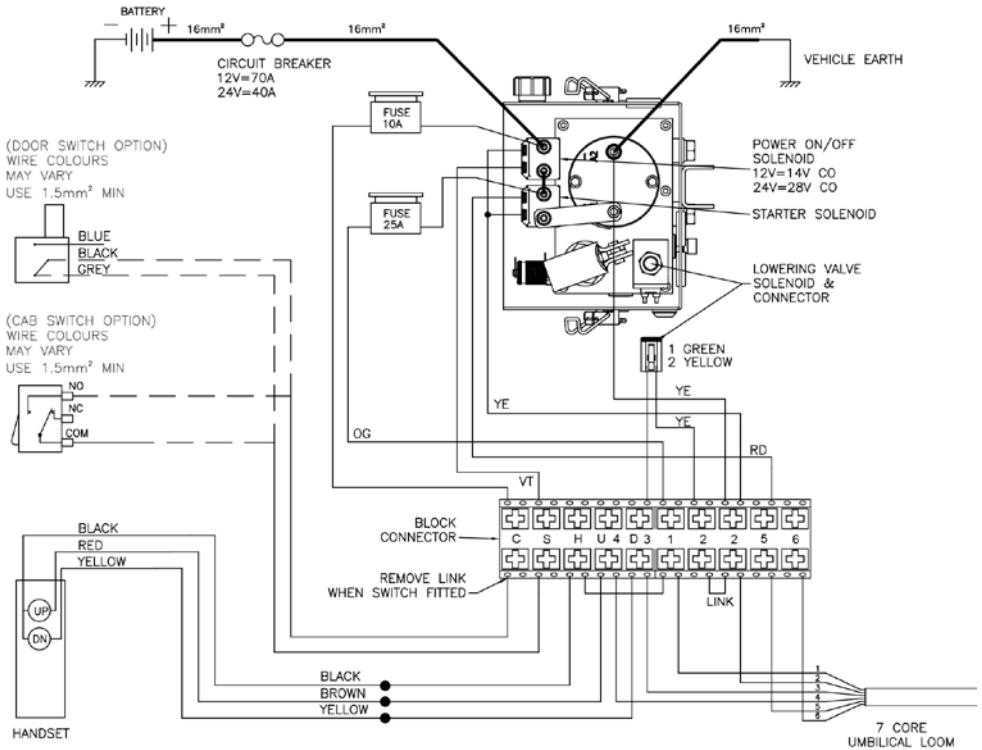
12.1 Trouble Shooting Instructions Access + ECO

Problem	Fault	Solution
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 & 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	Box lock not fully disengaged
Lift is pressurized up in box		Press Down on handset to lower lift or open the down valve to release pressure
Box grounded and damaged underneath		Repair / replace box
Lift not powering IN	Motor cut-off switch (In switch)	Check switch adjustment & lubricate
	Umbilical damaged	Replace umbilical cable
	Carriage solenoid failure	Replace solenoid
	Motor failure	Replace motor
	Carriage lock not lowering correctly	Check & readjust carriage lock stowing
	Carriage lock switch failure	Check switch adjustment & lubricate
Lift not powering OUT	Lift Up switch (Out switch)	Check switch adjustment & lubricate
	Umbilical damaged	Replace umbilical cable
	Carriage solenoid failure	Replace solenoid
	Motor failure	Replace motor
	Loose carriage electrical connections	Check plugs, sockets & pins
Lift not powering UP	Low oil	Add PLS Blue Hydraulic oil
	No pump pressure	Check and readjust pressure relief
	Hose burst	Replace
	Lift Up switch (Out switch)	Check switch adjustment & lubricate
	Manual release left open	Close manual override
	Down valve stuck open (contamination)	Remove / clean and replace
	Low voltage	Charge battery
Lift not lowering DOWN	Contamination in PC Burst valves	Replace PC burst valve set
	Crash valves locked (cold weather)	Readjust crash valve gap
	Down valve not opening due to low voltage	Charge battery
	Down valve sticking (contamination)	Remove / clean and replace
	Down valve coil failure	Check / replace

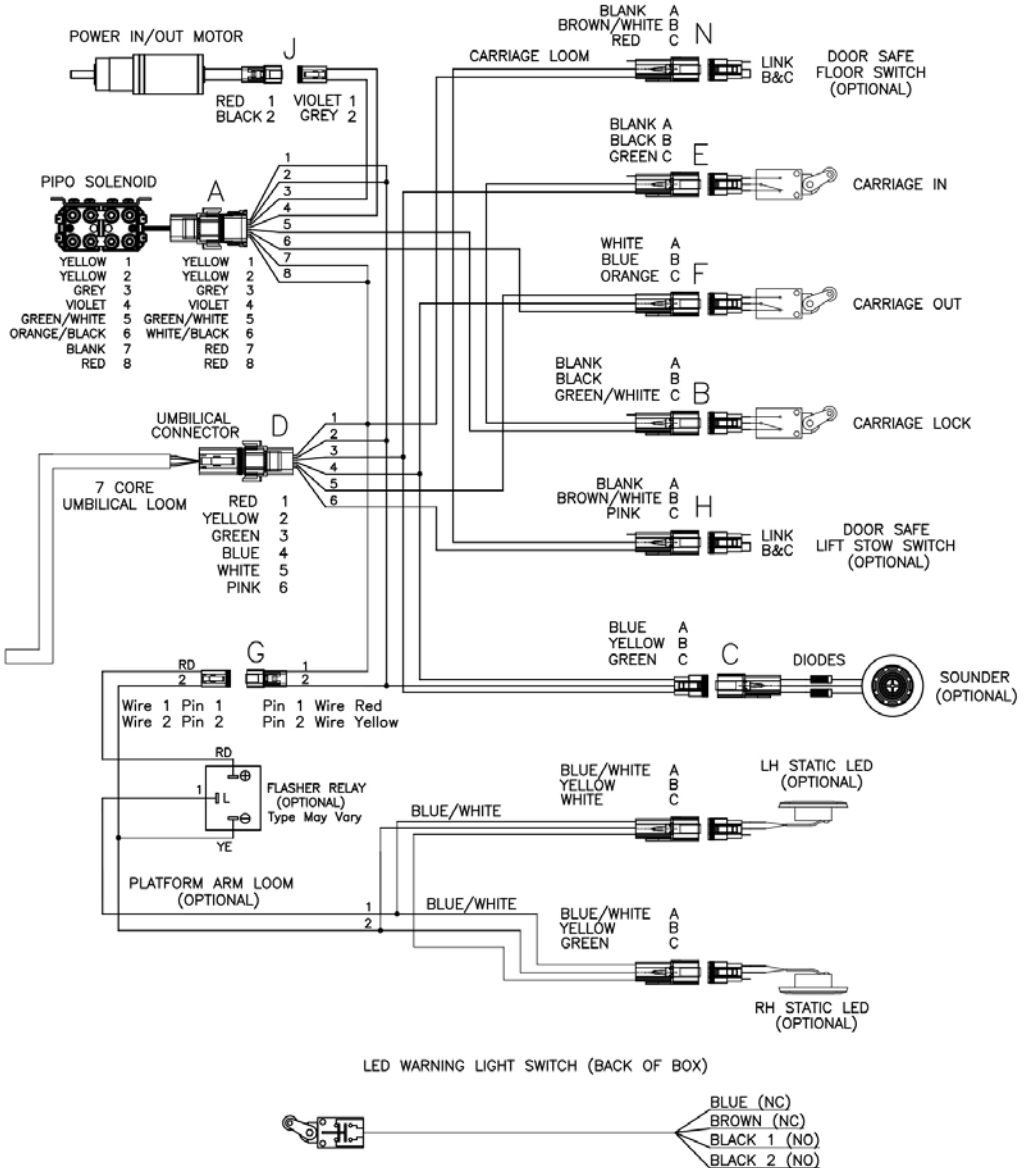


Problem	Fault	Solution
Platform Extension will not extend	Handrails not raised up	Raise up handrails into locked position
	Extension legs not free from stow bolts	Power lift UP to higher position
	Lack of lubrication	Lubricate moving parts
	End stops loose	Tighten end stops
	Extension pipe / hose catching in platform	Reposition hose / pipe
Platform Extension will not retract	Extension pipe / hose catching in platform	Reposition hose / pipe
	Extension legs hitting stow bolts	Power lift UP to higher position
	Lack of lubrication	Lubricate moving parts
	Extension pulled out to hard, End stops jammed on rollers	Reset, Replace extension end stops
Ramp will not deploy	Lack of lubrication	Lubricate pivot sand moving parts
	Ramp damaged	Replace
	Cylinder failure	Replace
	Air in Cylinder	Bleed out air in cylinder
Bridge Plate operation not operating smoothly / noisy	Lack of lubrication	Lubricate pivot sand moving parts
	Bridge plate parts damaged	Replace damaged parts
Bridge plate not touching vehicle floor	Push rod position incorrect	Adjust toggle joints or adjustable crank
	Cam & Crank slipped	Reset, Replace Cam & Cranks
Bridge plate not lifting to vertical position when lowering lift	Bridge plate compression springs force to low	Adjust spring collars (do not bottom out springs)
Bridge plate not lifting to vertical position when powering lift out of box	Torsion bars twisted / broken	Replace Torsion Bars
Lift platform jamming on arms when powering UP	Incorrect operation due to Under stowing extension	Lower lift and retract extension
Handrail rattling / loose	Handrail pins loose or missing	Reset, Replace pins
Handrails not locking when raised up	Handrail damaged	Replace
	Handrail lock out of adjustment	Readjust Handrail Lock
Auxiliary hand pump not working	Air in system	Bleed out air, open manual override valve and pump hand pump 10 times, close and try again

13.1 Wiring Diagram - Power Pack Access + ECO



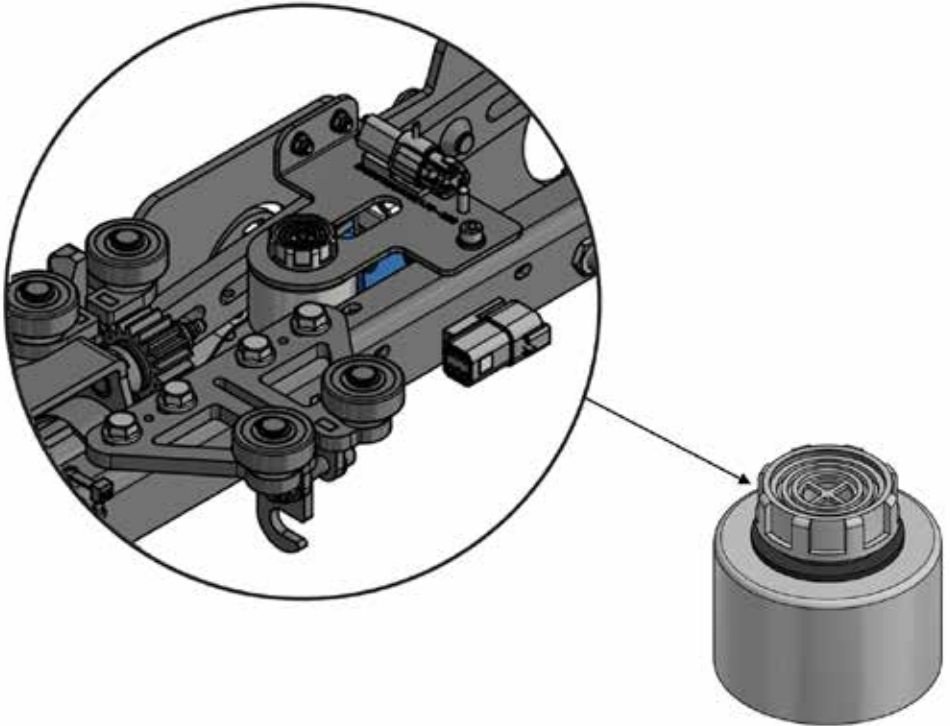
13.2 Wiring Diagram - Lift Access + ECO



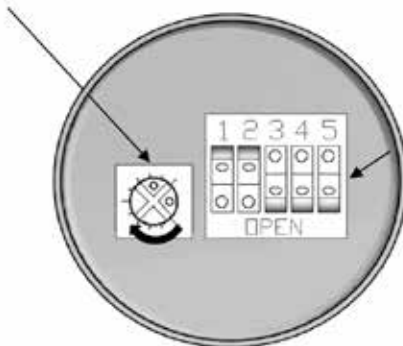
This micro switch is used to signal when the lift is IN & OUT of stow. It can be used to signal a warning light or buzzer on the dashboard. It should NOT be hardwired to the vehicle brakes.



13.3 Wiring Diagram - Buzzer Dip Switch Settings Access + ECO



Volume Control
(Turn clockwise to increase)



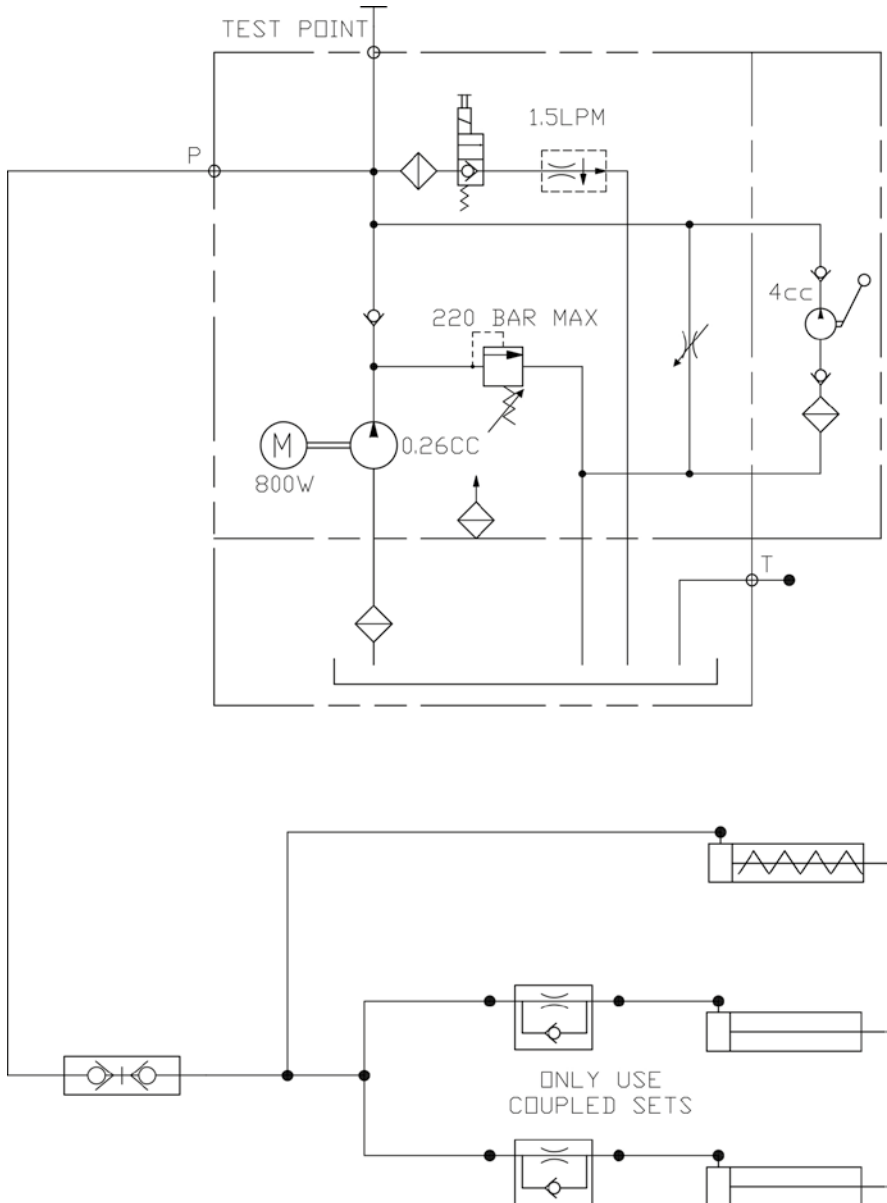
Dip Switches

Buzzer Dip Switches
1,2 Open
3,4,5 Closed

View on underside of Buzzer



13.4 Hydraulic Diagram Access + ECO





14.1 List of Spare Parts Access + ECO



For spare parts, either, use the assembly drawings to identify the required part, then add these to the following form or contact the PLS spare parts department and talk to one of our staff.

1. Box Assembly
2. Box Rear Switch
3. Box Lock Assembly LH
4. Box Umbilical
5. Carriage Assembly
6. In/ Out Motor Assembly
7. Front Centre Bearing
8. Carriage Extended Rear Bearing
9. Carriage Switch Bracket Assembly
10. DS2 Ready Standard Spec (Up to Feb 2018)
11. DS2 Ready Lite Spec (Up to Feb 2018)
12. Carriage Hydraulics
13. Handrail "H" Assembly
14. Single Throw In Handrail
15. Single Throw Out Handrail
16. Lower Left Arm
17. Lower Right Arm
18. Upper Left Arm
19. Upper Right Arm
20. Arm Cylinders
21. Arm Brace
22. Bridge Plate Assembly Pre 2019
23. Bridge Plate Assembly Post 2019
24. Bridge Plate Alloy
25. Platform "H" Single Mechanism
26. Platform Alloy
27. Platform Extension
28. Extension Alloy
29. Extension Pipe and Hoses
30. Roll-Off-Ramp
31. External Enclosed Pack, Horizontal Position
32. Internal Enclosed Pack, Vertical Position
33. Standard Handset Kit
34. Handset Kit
35. Moulded Handrail Assembly
36. ECO Box Assembly
37. ECO Carriage Assembly
38. ECO Platform "H" Single Mechanism
39. ECO Platform Extension
40. ECO Lower Left Arm
41. ECO Lower Right Arm
42. ECO Upper Left Arm
43. ECO Upper Right Arm
44. ECO Roll-Off-Ramp

14

Spare Parts



14.2 Spare Parts - Request Form Access + ECO



SPARE PARTS REQUEST FORM

FROM

Mr.

SPARE PARTS DEPARTMENT
Email: parts@pls-access.co.uk

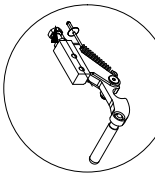
DESCRIPTION

Qty

DESCRIPTION	Qty

PRIORITY	URGENT <input type="checkbox"/>	NORMAL <input type="checkbox"/>
SHIPMENT		
PAYMENT		
DESTINATION		
SIGNATURE	DATE	

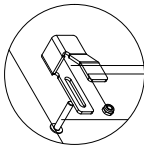
Box Assembly



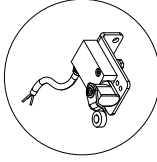
Detail A
(Enlarged)



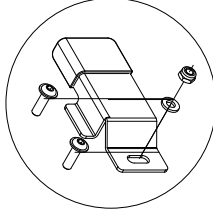
Detail C
(Enlarged)



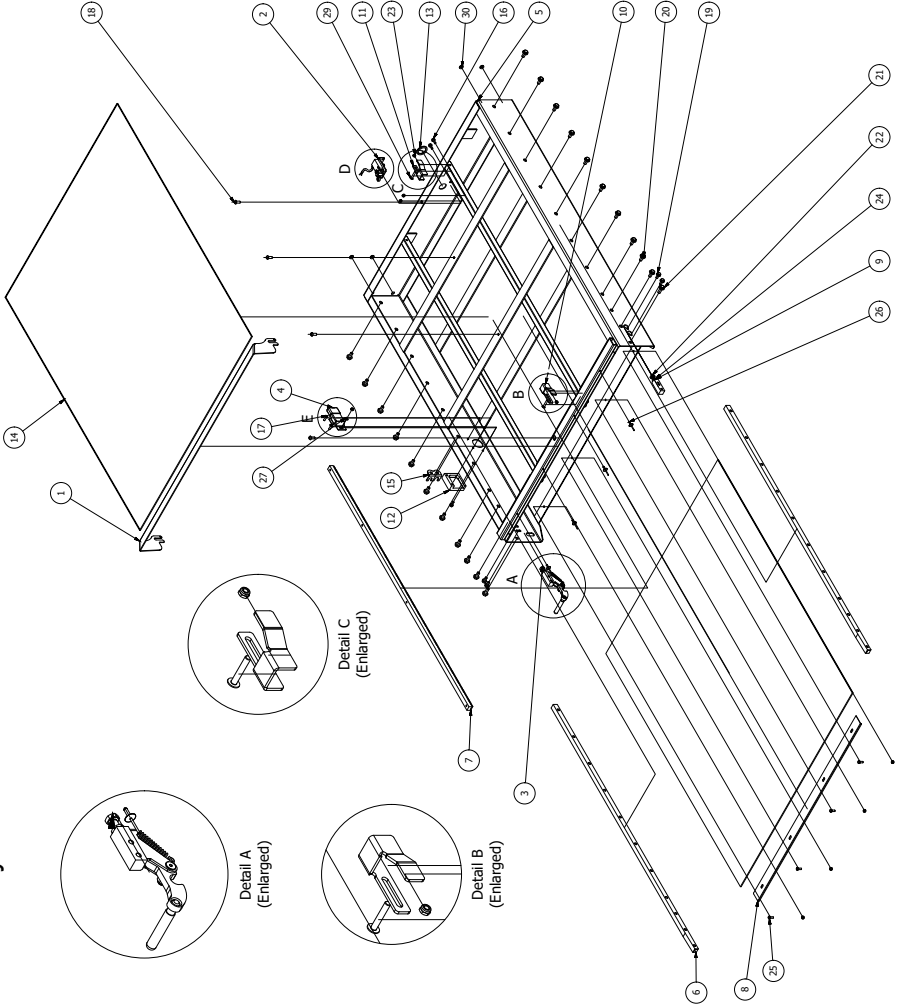
Detail B
(Enlarged)



Detail D
(Enlarged)



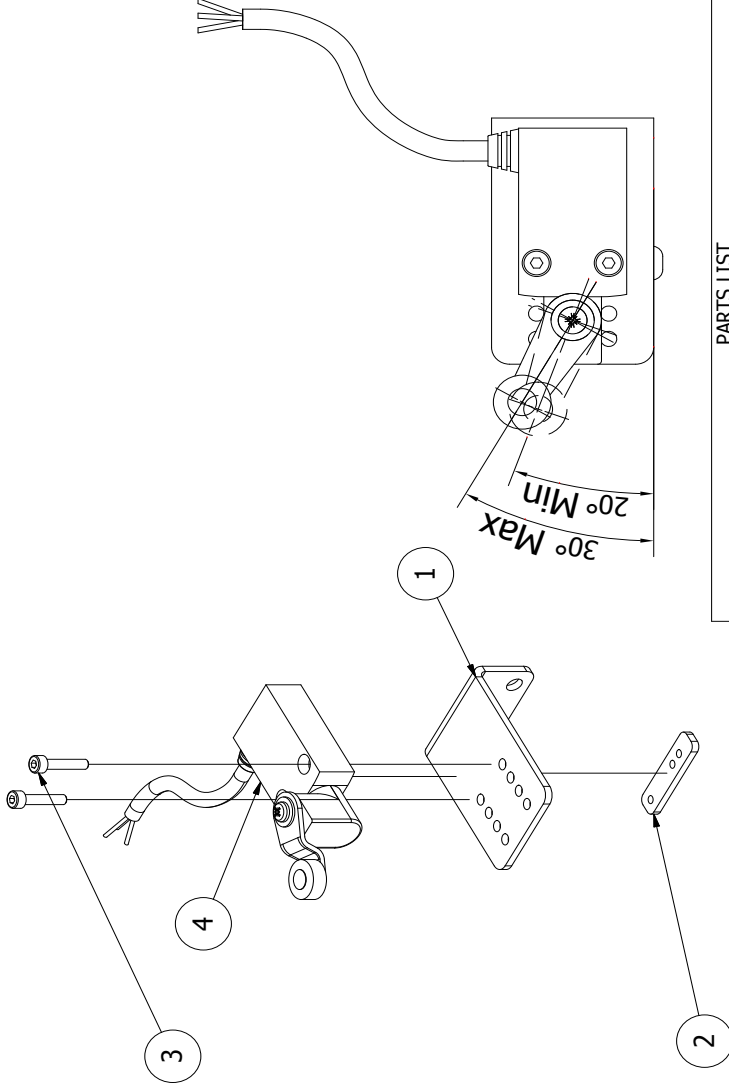
Detail E
(Enlarged)



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	CONTRACT PLS	ACE Box Straps
2	1	POWERSHIP 010 0132	ACE Box Straps
3	1	POWERSHIP 010 0133	ACE Box Lock Assembly LH
4	1	POWERSHIP 010 0134	ACE Box Lock Assembly RH
5	1	CONTRACT PLS	ACE FR Back Box 2 Strap
6	2	CONTRACT PLS	ACE Box Sash Track
7	1	CONTRACT PLS	ACE Center Back TB
8	1	CONTRACT PLS	ACE Box Strap
9	1	CONTRACT PLS	ACE Box Strap
10	1	ACE/4800/0008-F	ACE Durability Rail Switch
11	1	ACE/4800/0008-R	ACE Durability Rail Switch
12	1	ACE/4800/0008-L	ACE Durability Rail Switch
13	1	CONTRACT PLS	Backrest Base
14	2	COMPS/0003	Backrest Base
15	1	ACE/4800/0104-3	Backrest Base
16	3	FASTR/06/24	150mm x 100mm x 4mm
17	2	FASTR/06/24	150mm x 100mm x 4mm
18	4	FASTR/06/01	150mm x 100mm x 4mm
19	4	FASTR/06/04	150mm x 100mm x 4mm
20	20	FASTR/10/01	150mm x 100mm x 4mm
21	2	FASTR/10/02	150mm x 100mm x 4mm
22	1	FASTR/10/12	150mm x 100mm x 4mm
23	9	FASTR/10/01	150mm x 100mm x 4mm
24	1	FASTR/10/03	150mm x 100mm x 4mm
25	4	FASTR/10/01	150mm x 100mm x 4mm
26	4	FASTR/10/01	150mm x 100mm x 4mm
27	1	FASTR/10/01	150mm x 100mm x 4mm
28	2	FASTR/10/01	150mm x 100mm x 4mm
29	2	FASTR/10/01	150mm x 100mm x 4mm
30	4	COMPS/0001	150mm x 100mm x 4mm

Note: Finings may vary

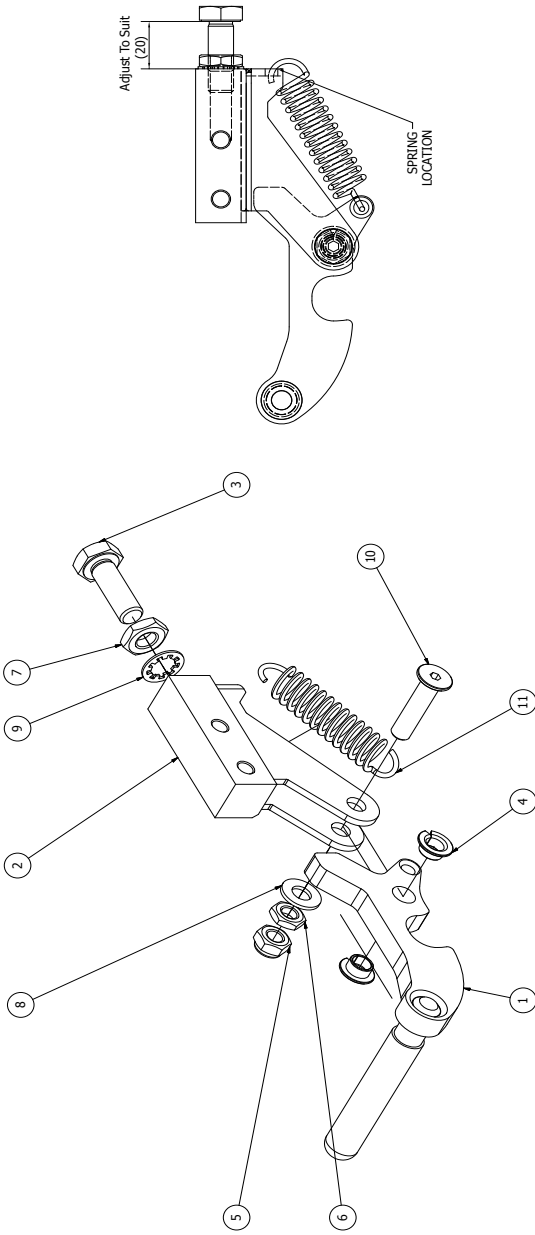
2 Box Rear Switch



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABCAR50132	ACC Rear Switch Box Bracket
2	1	GNXAFABBOX60039	GNXA Box Lock Tapping Plate
3	2	FASBL/0402	M4 x 20 Socket Head Cap Screw
4	1	MIN_550690	Switch XCMN2115L1

Note:- Fixings may vary

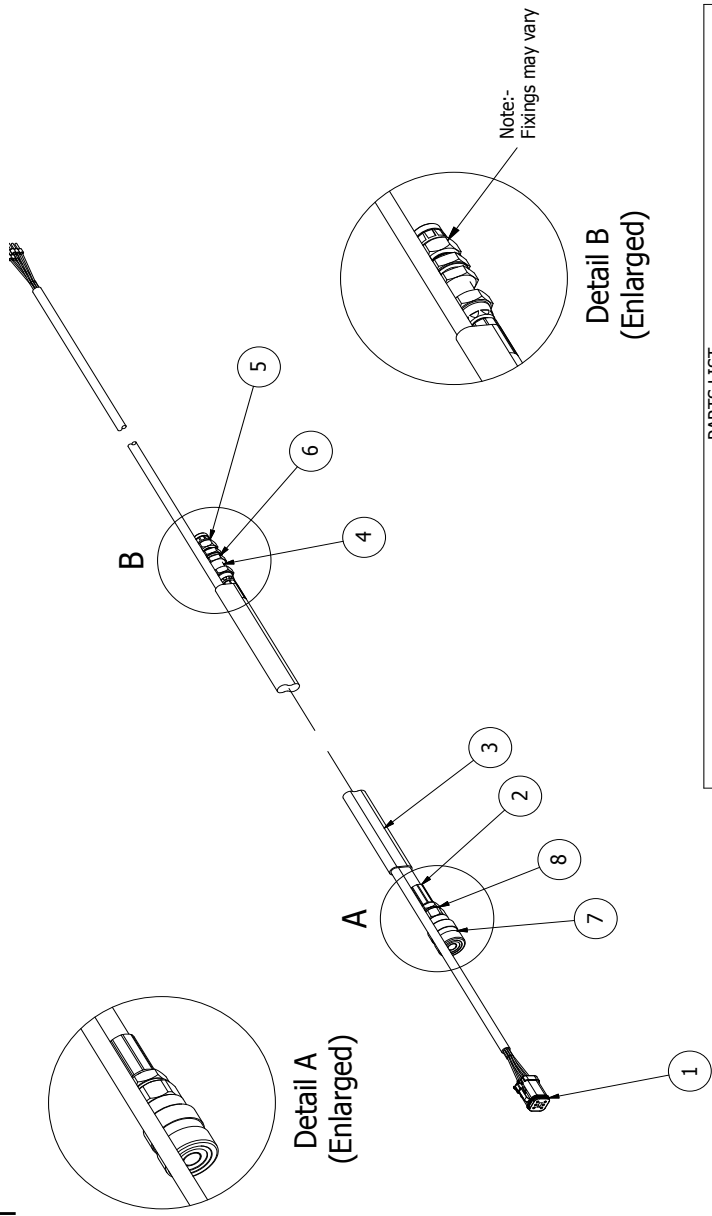
Box Lock Assembly



PARTS LIST				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	ACCFABBOX50083	8	ACC Box Lock Hook Handle
2	1	ACCFABBOX50084	4	ACC Box Stop Lock Bracket
3	1	FASBJ/1012	1	M10 X 30 Hex Head Set Screw
4	2	FASBJ/0001	1	Flange Glacier Bush 10x8x5.5
5	1	FASNT/0801	1	M8 Nylon Nut
6	1	FASNT/0802	1	M8 Half Nut
7	1	FASNT/1003	1	M10 Half Nut
8	1	FASWA/0801	1	M8 Plain Washer Form A
9	1	FASWA/1003	1	M10 Internal Star Washer
10	1	GXFABBOX40087	1	GX Box Lock Hook Pin
11	1	GXSPRBOX40084	2	GX Box Lock Spring

Note:- Fixings may vary

4 Box Umbilical



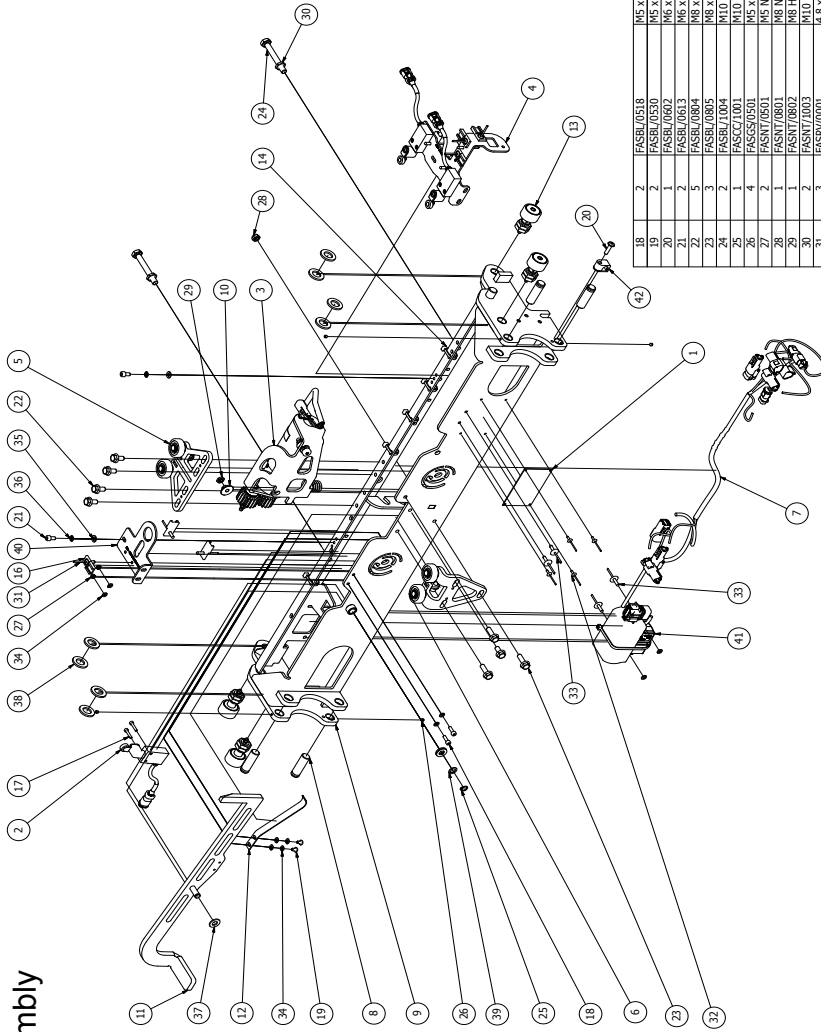
**Detail A
(Enlarged)**

**Detail B
(Enlarged)**

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACC26246	ACC 7 Core Umbilical Loom 3.5m
2	1	Contact PLS	ACC Umbilical Hose
3	Various	ELEHS/0001	25.4mm 3:1 adhesive per heat shrink tube 25m rolls
4	1	HYDFT/0001	1/4 BSP Bulkhead MM (PLS1)
5	1	HYDFT/0011	Cap 1/4 PLS7
6	1	HYDFT/0014	1/4 BSP Locknut (PLS10)
7	1	HYDPR/0002	QRC CARRIER FEMALE (204000044)
8	1	HYDWA/0001	1/4 BSP Dowty Seal (Bonded Washer)

Note:- Fixings may vary

Carriage Assembly

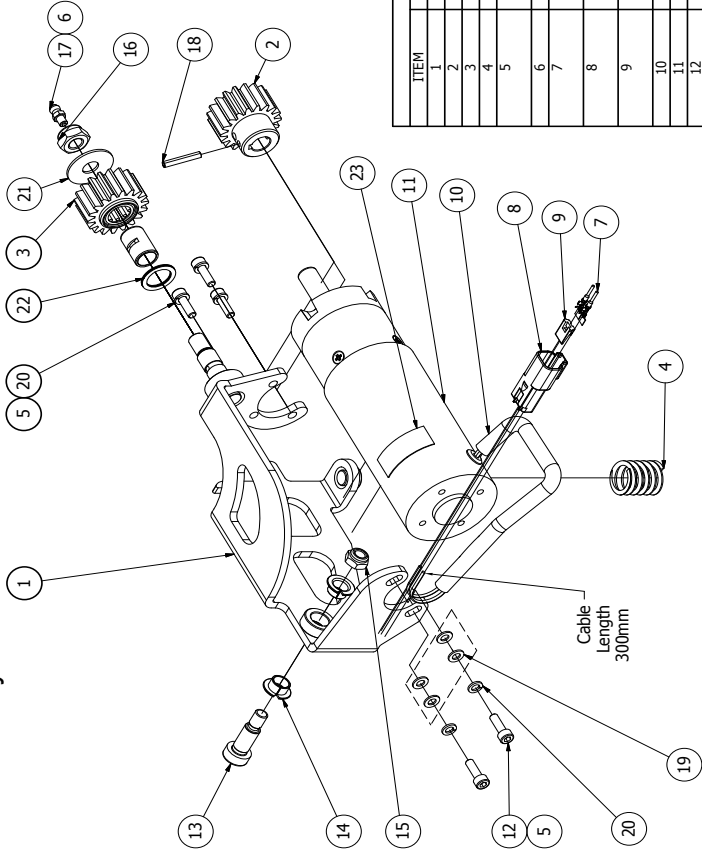


Note: Fixings may vary

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACC27520	400 SML Aluminium Serial Number Plate
2	1	ACC35060	Blue Switch (MCHN2115L1) With Deutsch Plug
3	1	CARACCASV510427-12	ACC 12V Parvalux Motor Assembly
4	1	CARACCASV510425	ACC Carriage Switch Bracket Assembly
5	1	CARACCASV510426	ACC Carriage Extended Rear Bearing Assembly
6	1	CARACCASV510427	ACC Front Centre Bearing Assembly
7	1	ACCCLCLO	ACC Carriage Lite Wiring Harness
8	4	ACCFBARAK69266	ACC Arm Pin Plain
9	1	Contact PLS	ACC Carriage Pin
10	1	ACCFBARAS0143	ACC Motor Support Boss
11	1	Contact PLS	ACC Carriage Lock Lile
12	1	ACCSRRCAR50136	ACC Carriage Lock Leaf Spring
13	4	BEACF/0001	Cam Follower Straight Nipple MCFR 35
14	5	CONCT/0001	SBR-MGL
15	50,000 g	CONCT/0002	Shim 300 x 4.8
16	3	ELECT/0002	Debnert Attachment Cigs (2-5 way female)
17	2	FASBL/0402	M4 x 20 Socket Head Cap Screw

18	2	FASBL/0518	M5 x 16 Socket Head Cap Screw
19	2	FASBL/0530	M5 x 8 Socket Head Dome
20	1	FASBL/0802	M6 x 25 Socket Flange Dome Head A2
21	2	FASBL/0613	M6 x 12 Socket Cap Head Screw
22	5	FASBL/0804	M8 x 16 CL 1.00 FT HEX S/L Z/P
23	3	FASBL/0805	M8 x 25 CL100 FT HEX S/L Z/P
24	2	FASBL/1004	M10 x 80 Hex Head Set Screw
25	4	FASBL/0501	M5 External Cup
26	2	FASBL/0501	M5 External Flat Head Screw DIN 914
27	2	FASBL/0501	M5 N/OC Nut
28	1	FASNT/0801	M8 N/OC Nut
29	1	FASNT/0802	M8 Half Nut
30	1	FASNT/1003	M10 Half Nut
31	3	FASNT/0801	4.8 x 16 Dome Head Rivet
32	4	FASNT/0801	4.2 x 10 Large Flange Head Rivet Black
33	4	FASNT/0801	4.2 x 10 Large Flange Head Rivet
34	12	FASNT/0801-BLK	M5 Plain Washer Form A
35	2	FASNT/0801	M6 Plain Washer Form A
36	2	FASNT/0603	M6 Internal Star Washer
37	3	FASNT/091	M10 Nylon Washer Form A
38	8	FASNT/061	M16 Plain Washer Form A
39	1	FASNT/010	M10 x 1.0mm S/S Shim Washer
40	1	GAELCPHW0408-120	120mm S/S Shim Washer
41	1	GAELCPHW0408-12V	12V S/S Shim Washer
42	1	HYDQL/0001	GAELCPHW0408-12V Assembly

6 In / Out Motor Assembly

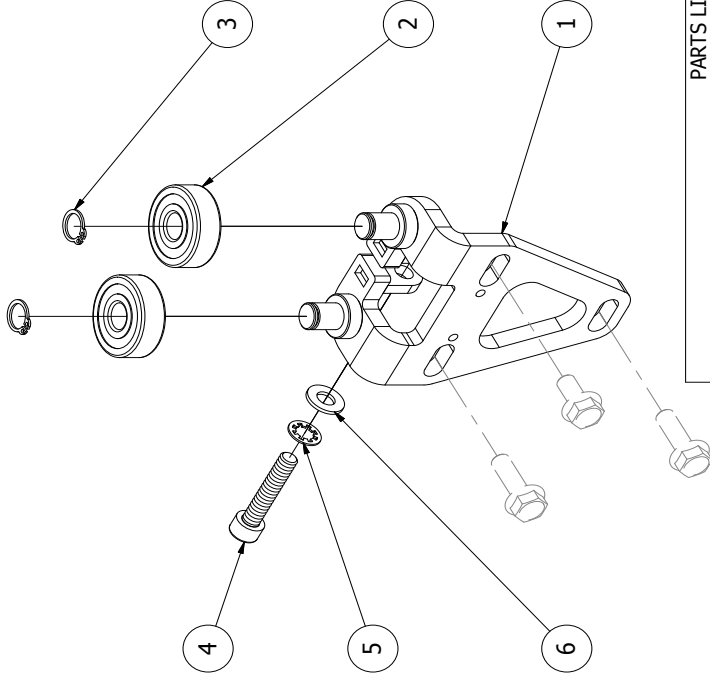


***CRITICAL**
FAILURE TO USE ALL FOUR WASHERS
WILL RESULT IN MOTOR BURN OUT

Note:- Fixings may vary

ITEM	QTY	PART'S LIST PART NUMBER	DESCRIPTION
1	1	ACCFABCAR50133	ACC Carriage Motor Bracket
2	1	ACCFABCAR50144	ACC Carriage Drive Gear 18T
3	1	ACCFABCAR50145	ACC Back Gear 18 Tooth
4	1	ACCSRBCARS0146	ACC Carriage Motor Spring
5	0.005 l	ADTHR/0001	A1042 Threadlock Adhesive PermaBond 50ml
6	50,000 g	CONOT/0002	Deutscher EP2 grease 400g
7	2	ELEDE/0001	Deutscher EP2 Pins 1060-16-0122 (4000 p/reel)
8	1	ELEDE/0003	A104-2P-R001BLK 2 WAY RECEPTACLE (DIO4-2P-CE02)
9	1	ELEDE/0009	RECEPTACLE WEDGE
10	0.250 m	ELEHS/0003	Heat Shrink 9.5mm OD 60m Roll
11	1	Contact PLS	PaveLux Carriage Motor
12	5	FASBU/0518	M5 x 16 Socket Head Capscrew
13	1	FASBU/9802	S/S Socket Shoulder Screw M6x10x20
14	2	FASBU/0003	Flange Glacier Bush 10x12x7
15	1	FASNT/0801	M8 Nyloc Nut
16	1	FASNT/1001	M10 Nyloc Nut
17	1	FASOT/0501	M5 Grease Nipple
18	1	FASPN/0401	Spiral Pin 4 x 24mm
19	4	FASVA/0501	M5 Plain Washer Form A
20	5	FASVA/0504	M5 Spring Washer
21	1	FASWA/1004	M10 x 30 Repair Washer
22	3	FASWA/1604	M16 Shim Washer
23	1	CONLE/0002	W128 LABEL LEGEND TESTED (PACK 350)

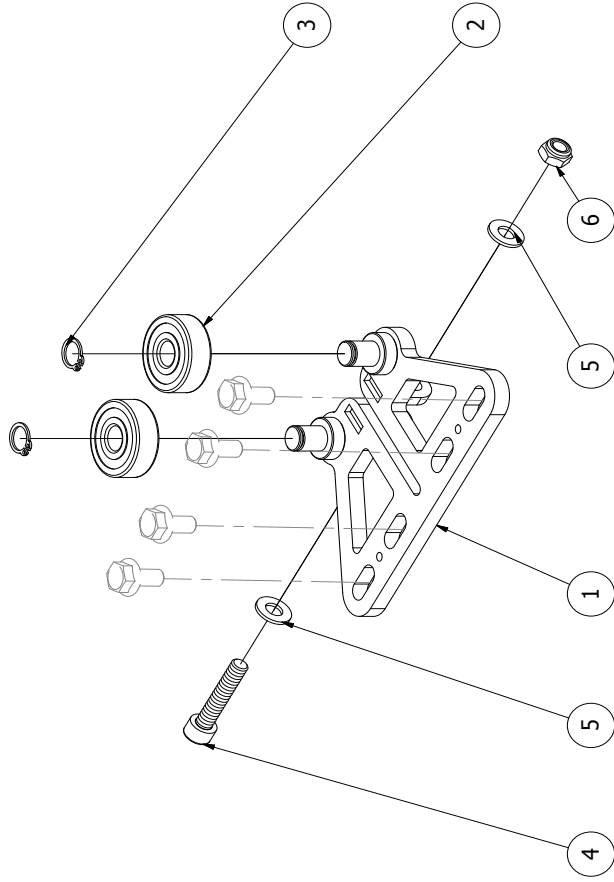
Front Centre Bearing



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABCAR50135	ACC Carriage Front Bearing BRKT
2	2	BEARN/0001	Front & Rear Centre Bearing 6301-2RS1
3	2	FASCC/1201	M12 External Circlip
4	1	FASBL/0803	M8 x 40 Socket Head Capscrew
5	1	FASWA/0803	M8 Internal Star Washer
6	1	FASWA/0801	M8 Plain Washer Form A

Note:- Fixings may vary

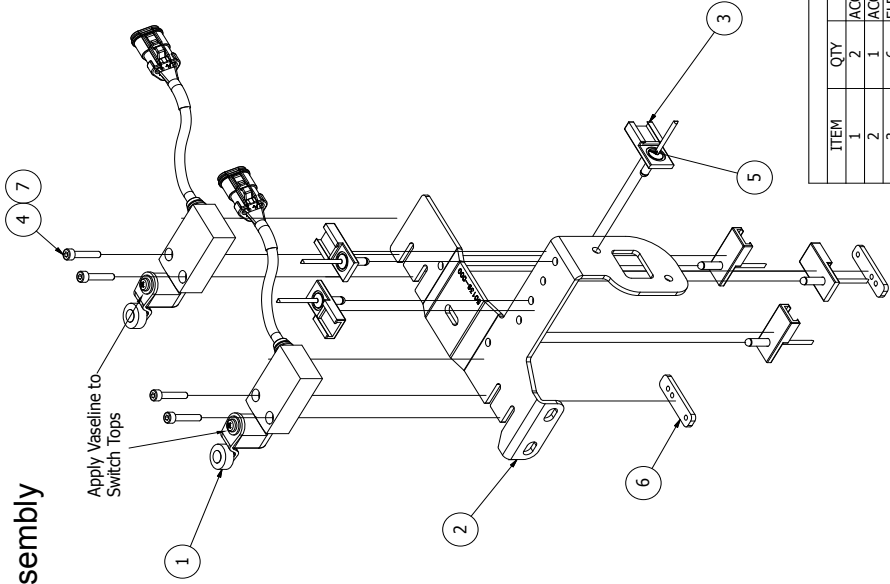
∞ Carriage Extended



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	ACC FABCAR50137 ACC Rear Extended Bearing Bracket
2	2	BEARN/0001 Front & Rear Centre Bearing 6301-2RS1
3	2	FASCC/1201 M12 External Circlip
4	1	FASBL/0803 M8 x 40 Socket Head Capscrew
5	2	FASWA/0801 M8 Plain Washer Form A
6	1	FASNT/0801 M8 Nyloc Nut

Note:- Fixings may vary

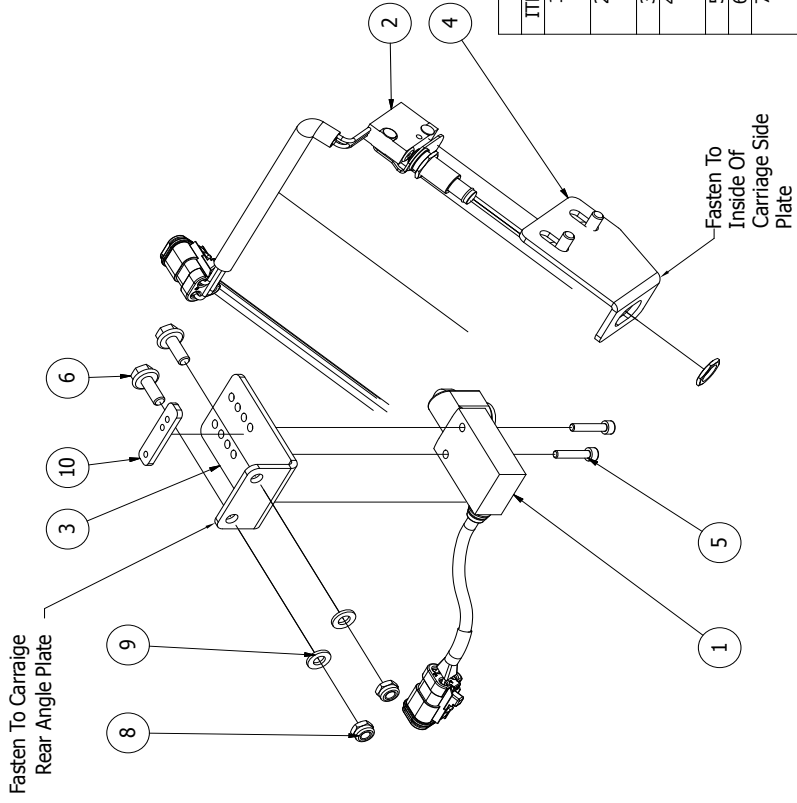
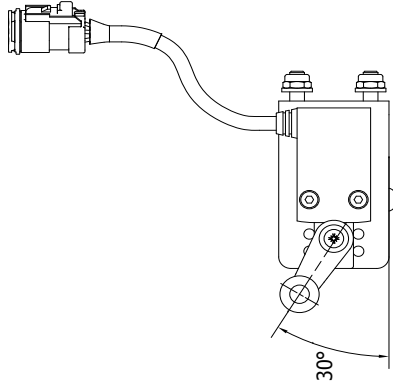
Carriage Switch Bracket Assembly



PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	2	ACC550690	Blue Switch (XCMN2115L) With Deutsch Plug
2	1	ACCFCAR50139-000	ACC Carriage Switch Bracket
3	1	ELECT/0002	Deutsch Attachment Clips (2-6 way female)
4	4	FASRL/0402	M4 x 20 Socket Head Cap Screw
5	6	FASRV/0001	4.8 x 1.6 Dome Head Rivet
6	2	GNXAFABBOX60039	GNXA Box Lock Tapping Plate
7	0.0051	ADTHR/0001	Al042 Threadlock Adhesive Permabond 50ml

Note:- Fixings may vary

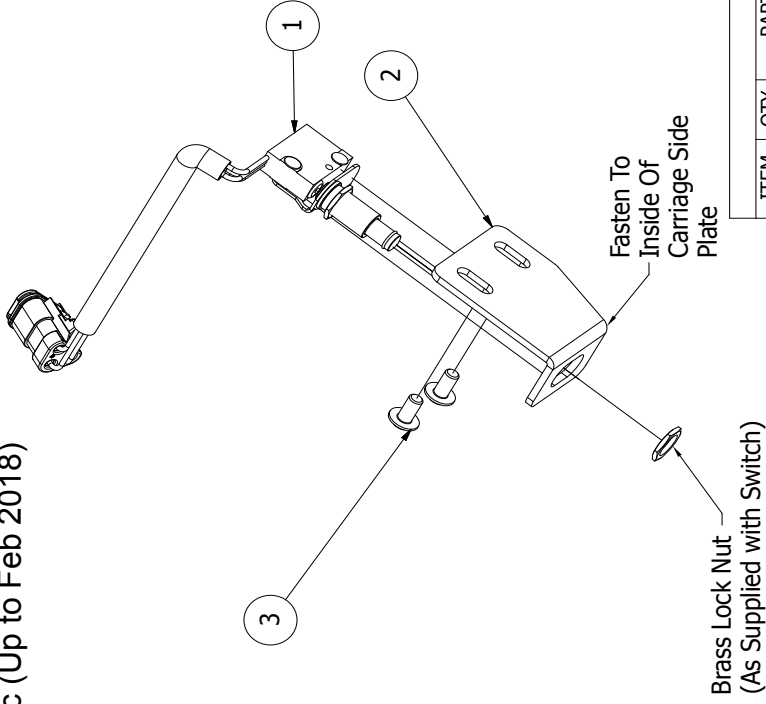
DS2 Ready Standard Spec (Up to Feb 2018)



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	Blue Switch (XCMV2115L1) With Deutsch Plug
2	1	ACC DS2 Carriage Switch Wiring Harness Assembly
3	1	ACC Rear Switch Box Bracket
4	1	ACC Carriage DS2 Arm Switch Bracket
5	2	M4 x 20 Socket Head Cap Screw
6	2	M6 x 16 CL100 HT HEX S/L Z/P
7	2	M6 x 12 Socket Flange Dome Head A2
8	2	M6 Nylonlock Nut
9	2	M6 Plain Washer Form A
10	1	GNXA Box Lock Tapping Plate
11	1	Door Safe Ready Sticker

Note:- Fixings may vary

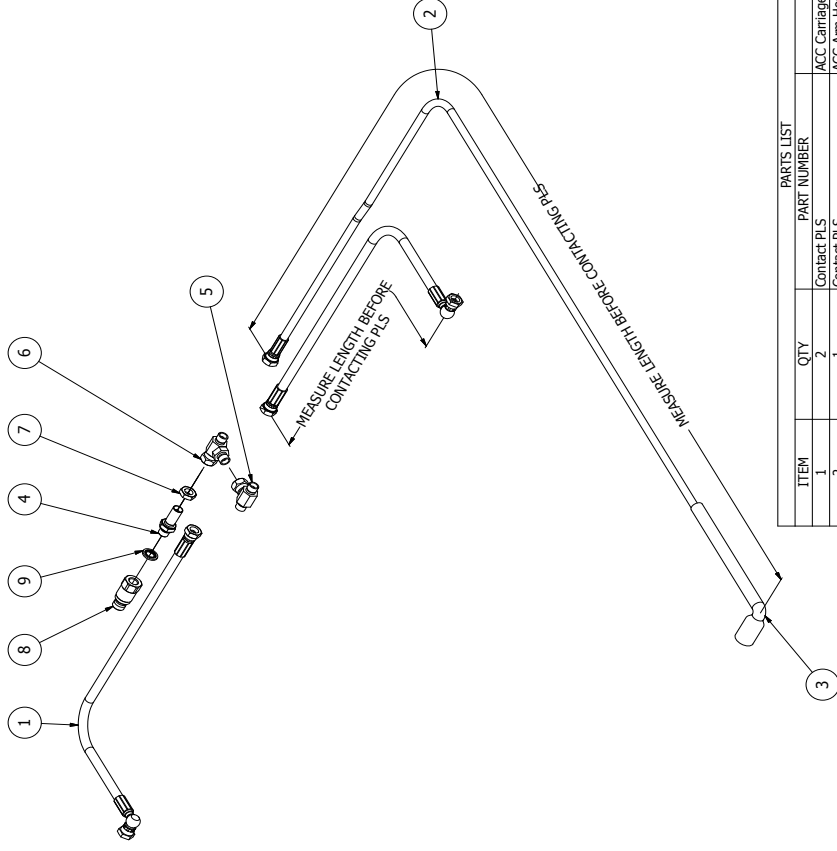
DS2 Ready Lite Spec (Up to Feb 2018)



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCELEWHA540-002	ACC DS2 Carriage Switch Wiring Harness Assembly
2	1	ACCFABCAR50141	ACC Carriage DS2 Arm Switch Bracket
3	2	FASBL/9601	M6 x 12 Socket Flange Dome Head A2
4	1	DS2-READY	Door Safe Ready Sticker

Note:- Fixings may vary

12 Carriage Hydraulics

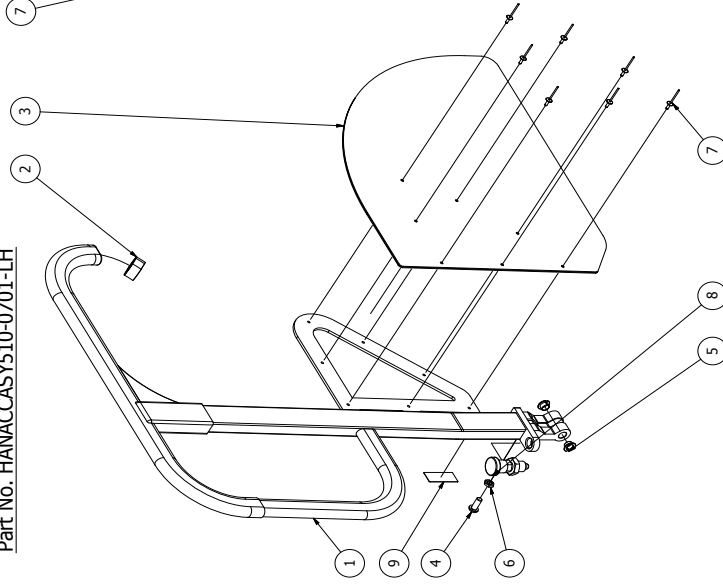


PARTS LIST		QTY	PART NUMBER	DESCRIPTION
1	Contact PLS	2	ACC Carriage Hose	
2	Contact PLS	1	ACC Arm Hose	
3	0.250 m	1	ELEHS/0001	25.4mm 3:1 adhesive pe heat shrink tube 25m rolls
4		1	HYDFT/0001	1/4 BSP Bulkhead MM (PLS1)
5		1	HYDFT/0002	1/4 BSP Tee MMF (PLS12)
6		1	HYDFT/0003	1/4 BSP Tee MMF
7		1	HYDFT/0014	1/4 BSP Locknut (PLS10)
8		1	HYDPR/0001	ORC PROBE MALE (20/40000045)
9		1	HYDMA/0001	1/4 BSP Donky Seal (Bonded Washer)

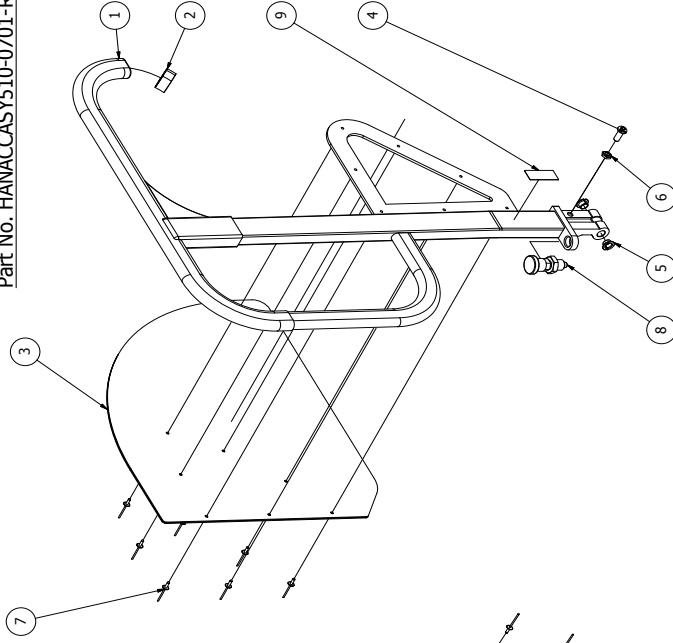
Note:- Fixings may vary

Handrail "H" Assembly

Part No. HANACCASY510-0701-LH



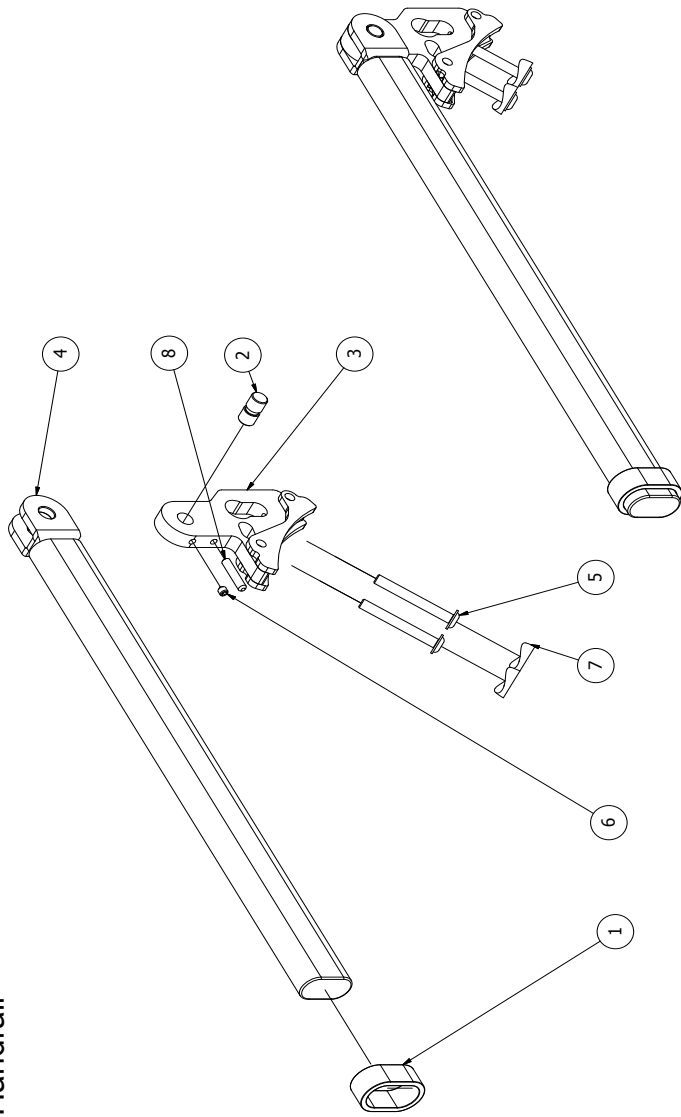
Part No. HANACCASY510-0701-RH



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFAHANS0703-LH/RH	ACC Handrail Frame 'H' LH/RH
2	1	ACCP/AHANS0730	ACC Handrail Rubber Bands
3	1	ACCP/AHANS0781	ACC Handrail Guard 'H'
4	1	FASBU/0801	MB x 20 Sckt Dome Hd Set
5	2	FASBU/0803	Flange Glacier Bush 10x12x7
6	1	FASNT/0802	MB Half Nut
7	7	FASRV/0008-BLK	3.2 x 10 Large Flange Head Rivet Black
8	1	GN717-8-M16x1.5-BK-NT	S/Steel M16 Index Plunger & Nut
9	1	CONLB/0012	Pull to Unlock Sticker

Note:- Fixings may vary

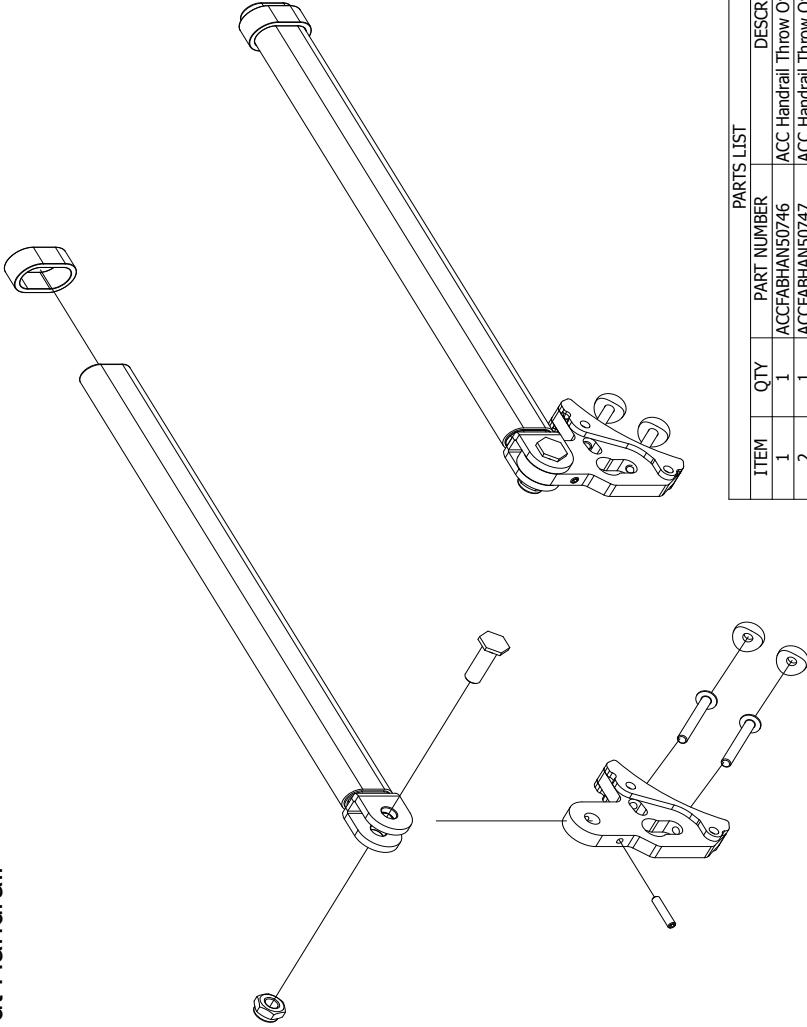
14 Single Throw In Handrail



PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	ACCPLAHAN50730	ACC Handrail Rubber Bands
2	1	ACCFABHAN50706	ACC Handrail Throw Over Pin
3	1	ACCFABHAN50746	ACC Handrail Throw Over Base
4	1	ACCFABHAN50747	ACC Handrail Throw Over
5	2	FASBL/9618	M6 x 50 Socket Flange Dome Head A2
6	1	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
7	2	FSTM6-WSH-SADDLE	M6 Saddle WSH_102.0200.000.01
8	1	FASGS/0503	M5 x 25mm Cup Point Grub Screw BZP

Note:- Fixings may vary

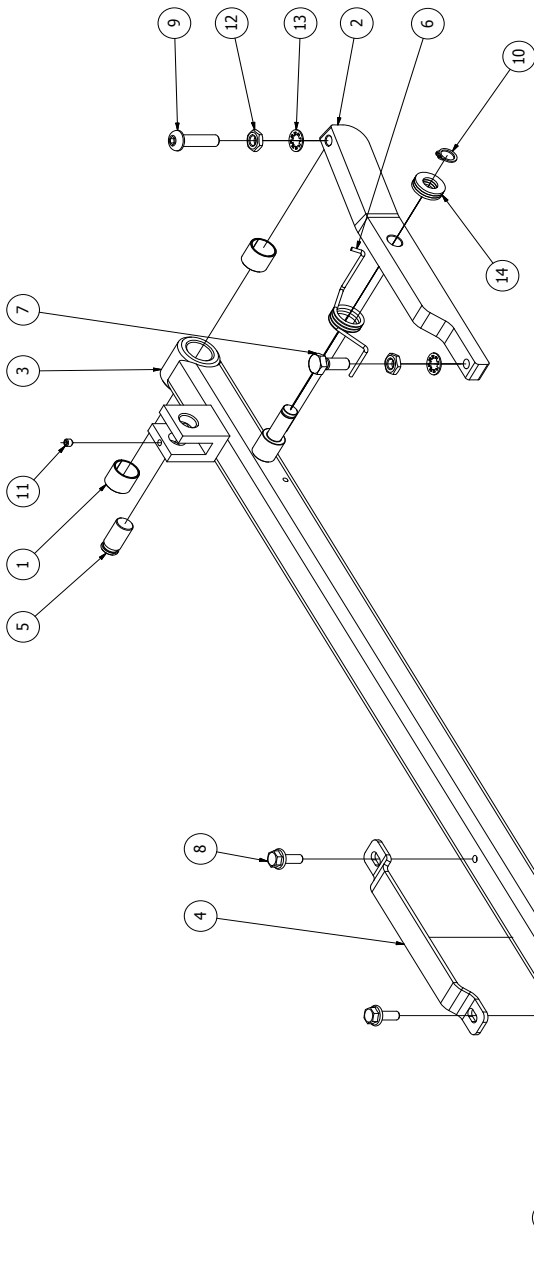
Single Throw Out Handrail



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABHAN50746	ACC Handrail Throw Over Base
2	1	ACCFABHAN50747	ACC Handrail Throw Over
3	1	ACCPLAHAN50730	ACC Handrail Rubber Bands
4	1	FASBL/1016	M10 x 30 Hex Head Set Screw Turned Down
5	2	FASBL/9618	M6 x 50 Socket Flange Dome Head A2
6	1	FAGGS/0503	M5 x 25mm Cup Point Grub Screw BZP
7	1	FASNT/1001	M10 Nyloc Nut
8	2	FSTM6-W5H-SADDLE	M6 Saddle W5H. 102.0200.000.01

Note:- Fixings may vary

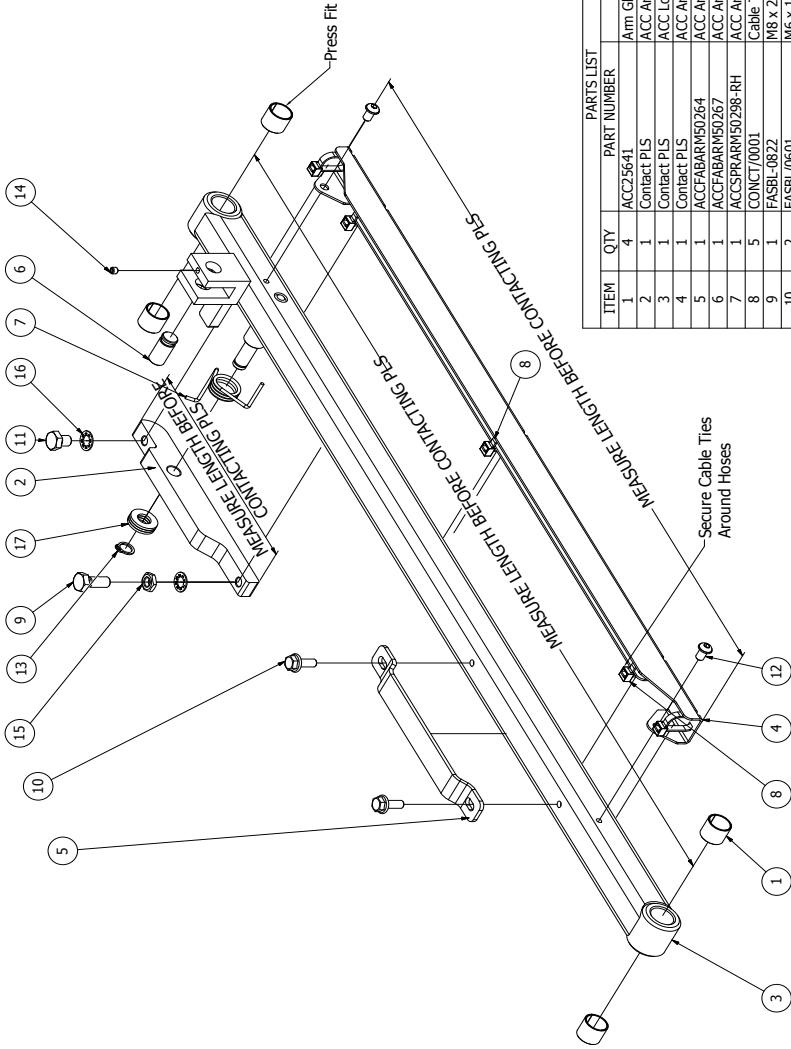
16 Lower Left Arm



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	4	ACC25641 Arm Glacier Bush 16x18x15
2	1	ACCFABARM50299 ACC Arm Rocker 'B' LH
3	1	ACCFABARM50200-B ACC Lower Left Arm B
4	1	ACCFABARM50264 ACC Arm Top Hat
5	1	ACCFABARM50267 ACC Arm Cylinder Pin
6	1	ACCSPRARM50298-LH ACC Arm Rocker Spring LH
7	1	FASBL-0822 M6 x 20 Hex Head Set Screw
8	2	FASBL/0601 M6 x 16 CL100 HT HEX S/L ZIP
9	1	FASBL/0830 M8 x 30 Socket Head Dome
10	1	FASCC/1001 M10 External Circlip
11	1	FASGS/0501 M5 x 6mm Cup Point Grub Screw DIN 914
12	2	FASNT/0802 M8 Half Nut
13	2	FASWA/0803 M8 Internal Star Washer
14	3	FASWA/1091 M10 Nylon Washer Form A

Note:- Fixings may vary

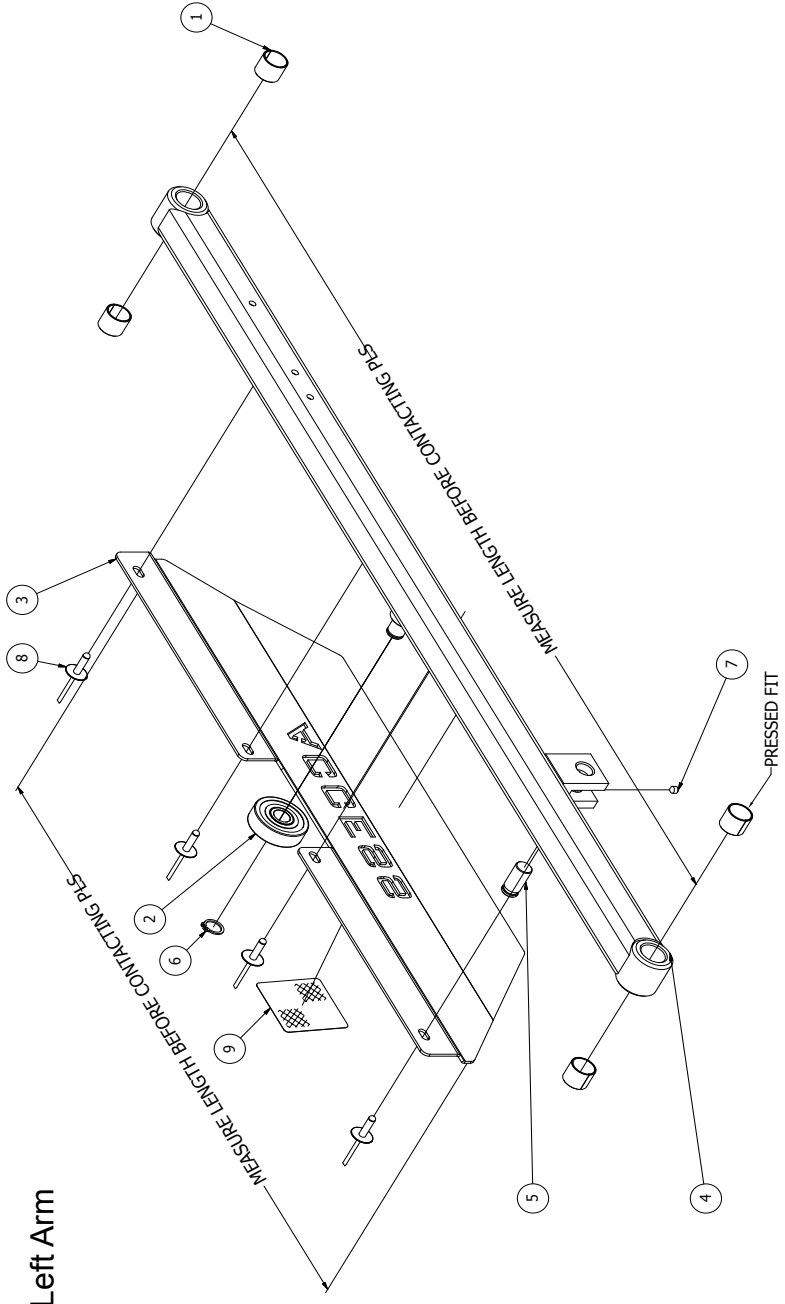
Lower Right Arm



PARTS LIST		
ITEM	QTY	PART NUMBER DESCRIPTION
1	4	ACC25641 Arm Glacier Bush 16x18x15
2	1	Contact PLS ACC Arm Rocker RH
3	1	Contact PLS ACC Lower Right Arm
4	1	Contact PLS ACC Arm Hose Tray
5	1	ACCFABARM50264 ACC Arm Top Hat
6	1	ACCFABARM50267 ACC Arm Cylinder Pin
7	1	ACCSPRARM50298-RH ACC Arm Rocker Spring RH
8	5	CONCT/0001 Cable Tie 300 x 4.8
9	1	FASBL-0822 M8 x 20 Hex Head Set Screw
10	2	FASBL/0601 M6 x 16 CLL00 HT HEX S/L Z/P
11	1	FASBL/0813 M8 x 10 Hex Head Set Screw
12	2	FASBL/9612 M6 x 10 Socket Flange Head Set A2
13	1	FASCC/1001 M10 External Circlip
14	1	FASGS/0501 M5 x 6mm Cup Point Grub Screw DIN 914
15	1	FASNT/0802 M8 Half Nut
16	2	FASVA/0803 M8 Internal Star Washer
17	3	FASWA/1091 M10 Nylon Washer Form A

Note:- Fixings may vary

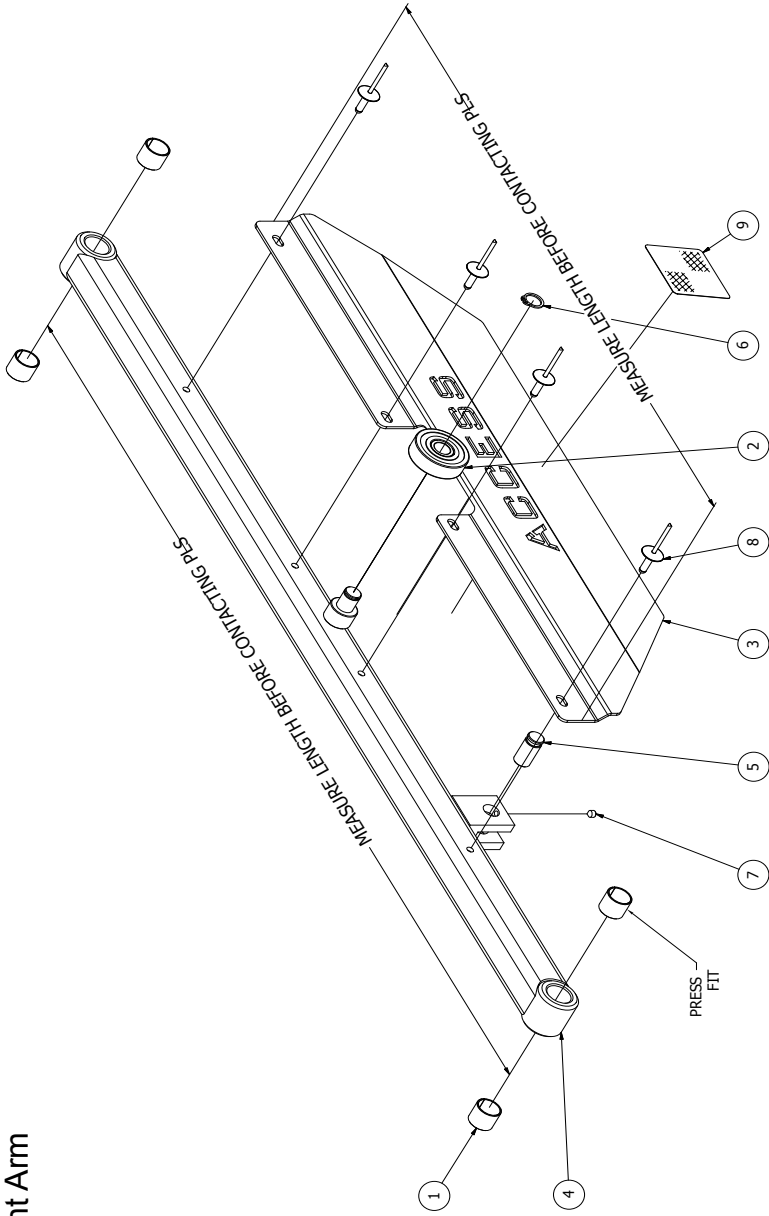
18 Upper Left Arm



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	ACC26376	Arm Bearing 6203 2RS With Insert
3	1	Contact PLS	ACC Arm Guard
4	1	Contact PLS	ACC Upper Left Arm
5	1	ACCBARARMS0267	ACC Arm Cylinder Pin
6	1	FASCC/J201	M12 External Circlip
7	1	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
8	4	FASRV/0014	4.8 x 16 Large Flange Head Rivet
9	1	ACCPRIKREFYELTAPE-Y	YELLOW REFLECTIVE PRISMATIC TAPE 50 x 50 x 50m

Note:- Fixings may vary

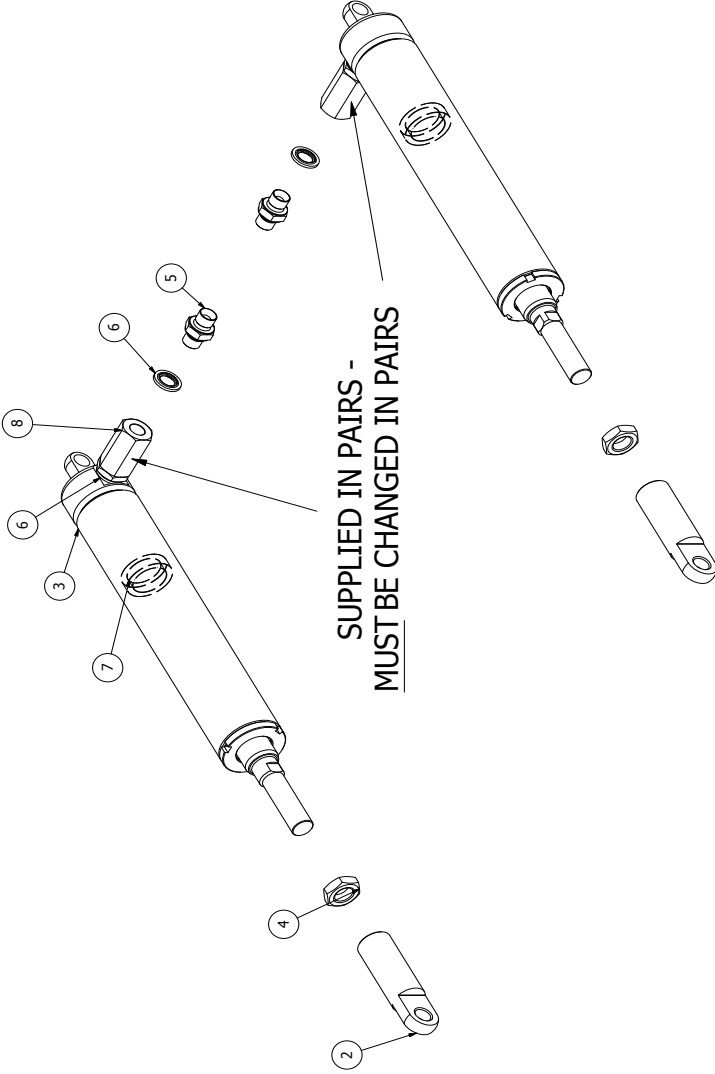
Upper Right Arm



PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	ACC26376	Arm Bearing 6203 2RS With Insert
3	1	Contact PLS	ACC Arm Guard
4	1	Contact PLS	ACC Upper Right Arm
5	1	ACCFAARM50267	ACC Arm Cylinder Pin
6	1	FASCC/1201	M12 External Circlip
7	1	FASGS/0501	M5 x 6mm Cup Point Grub Screw DIN 914
8	4	FASRV/0014	4.8 x 16 Large Flange Head Rivet
9	1	ACCPRISREFYELTAPE-Y	YELLOW REFLECTIVE PRISMATIC TAPE 50 x 50 x 50m

Note:- Fixings may vary

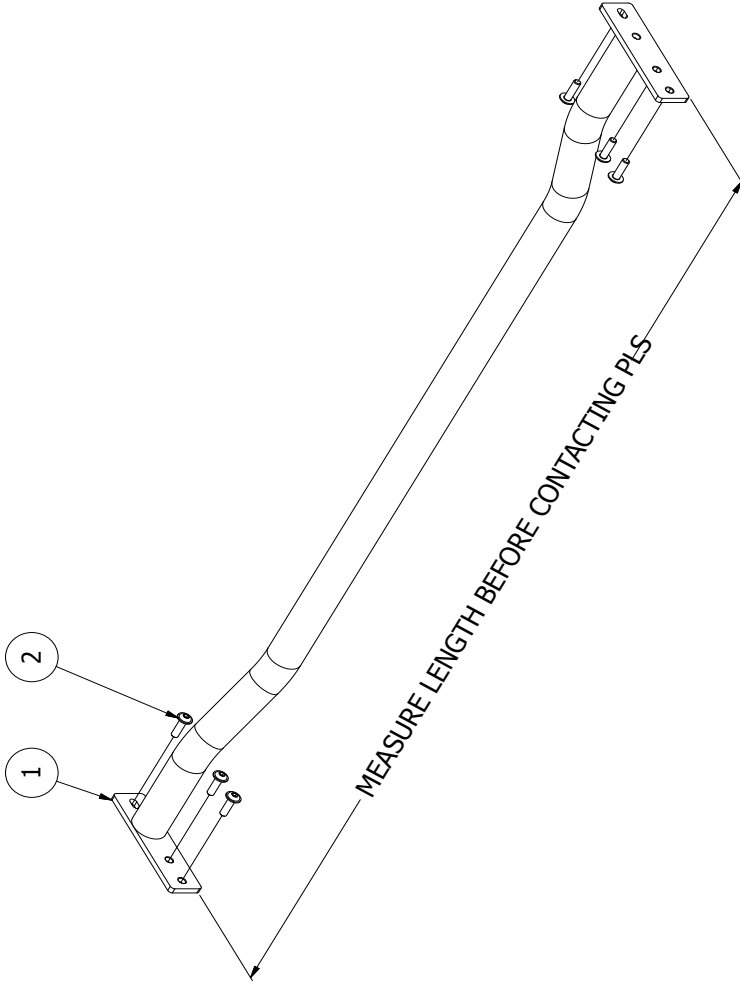
2 Arm Cylinders



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
2	2	ACCFABARM50295-000	ACC Cylinder Rod Clevis STD
3	2	ACCHYDCYL8962	Access Lite Cylinder (Mega 1)
4	2	EASNT/1603	M16 Half Nut
5	2	HYDFT/0004	1/4 BSP Male Male Straight
6	4	HYDWA/0001	1/4 BSP Downy Seat (Bonded Washer)
7	2	Contact PLS	8962 Cylinder Spacer
8	1	ACC27119	PC Valves-100420-Crash Valve New Type (Pair)

Note:- Fixings may vary

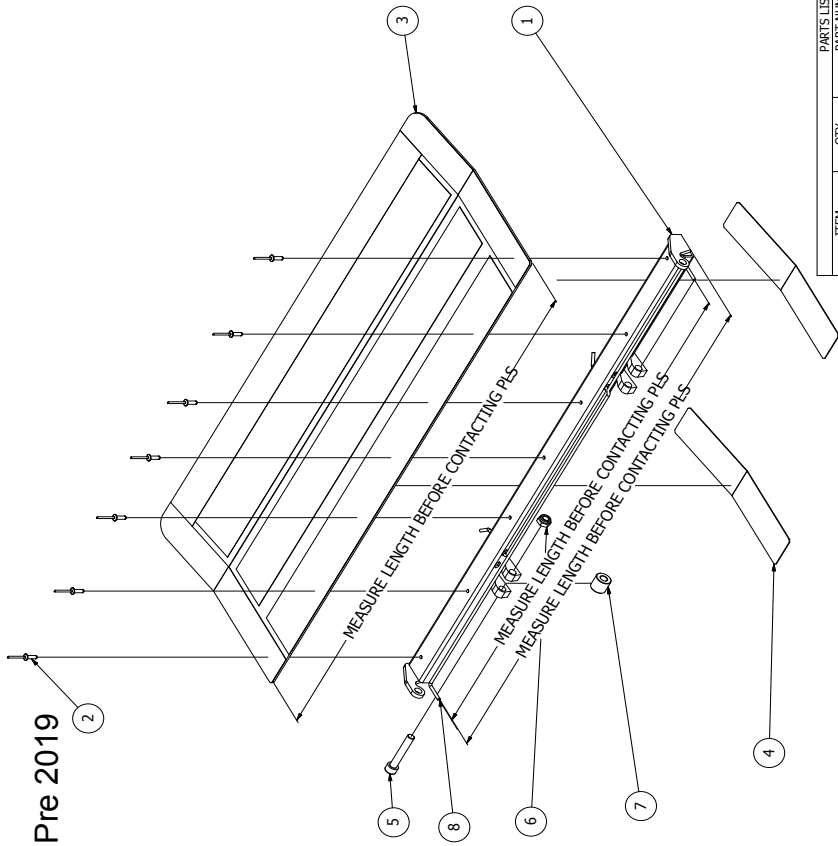
Arm Brace



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Contact PLS	ACC Arm Stabilizer
2	6	FASBL/0624	M6 x 20 Socket Flange Dome Head A2

Note:- Fixings may vary

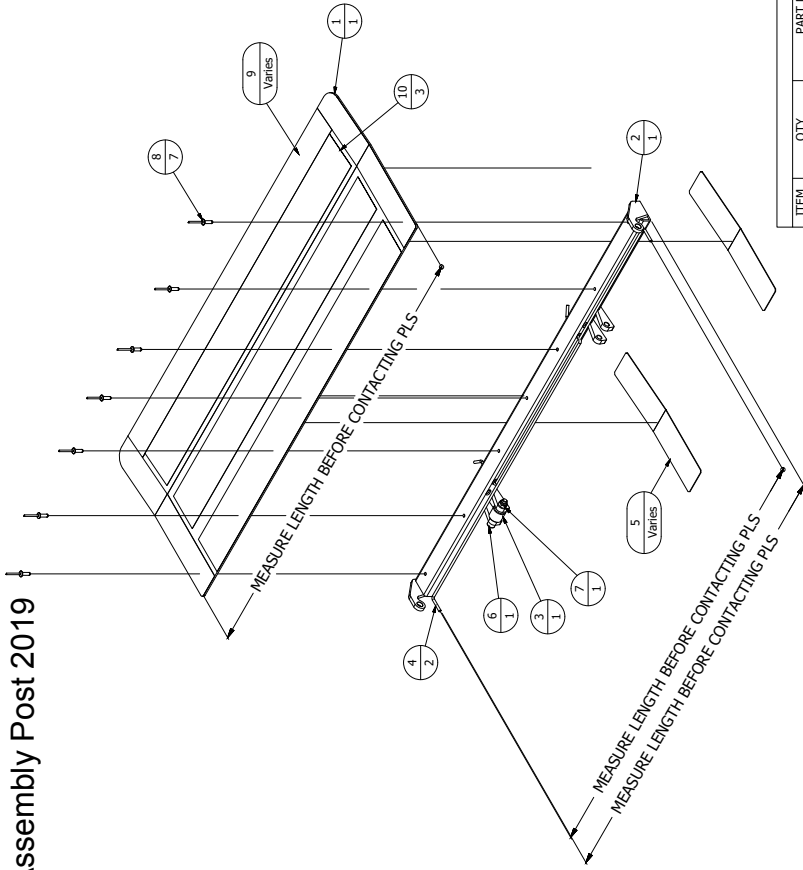
2 Bridge Plate Assembly Pre 2019



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Contact PLS	ACC Bridge Plate Hinge Lite
2	7	FASRV/0001	4.8 x 1.6 Dome Head Rivet
3	1	Contact PLS	ACC Bridge Plate Ally Assembly
4	0.295 m	ADSA7/0050	BI60-T-005-050-G1 Tribio Tape 50mm wide - 50 Mtr Roll
5	1	FASBL/1005	Socket Capscrew M10 x 60 BZP
6	1	FASNT/1001	M10 Nyloc Nut
7	1	ACCFABBRP0530-22	ACC Bridge Plate Roller Z2
8	2	Contact PLS	ACC Bridge Plate Torsion Bar

Note:- Fixings may vary

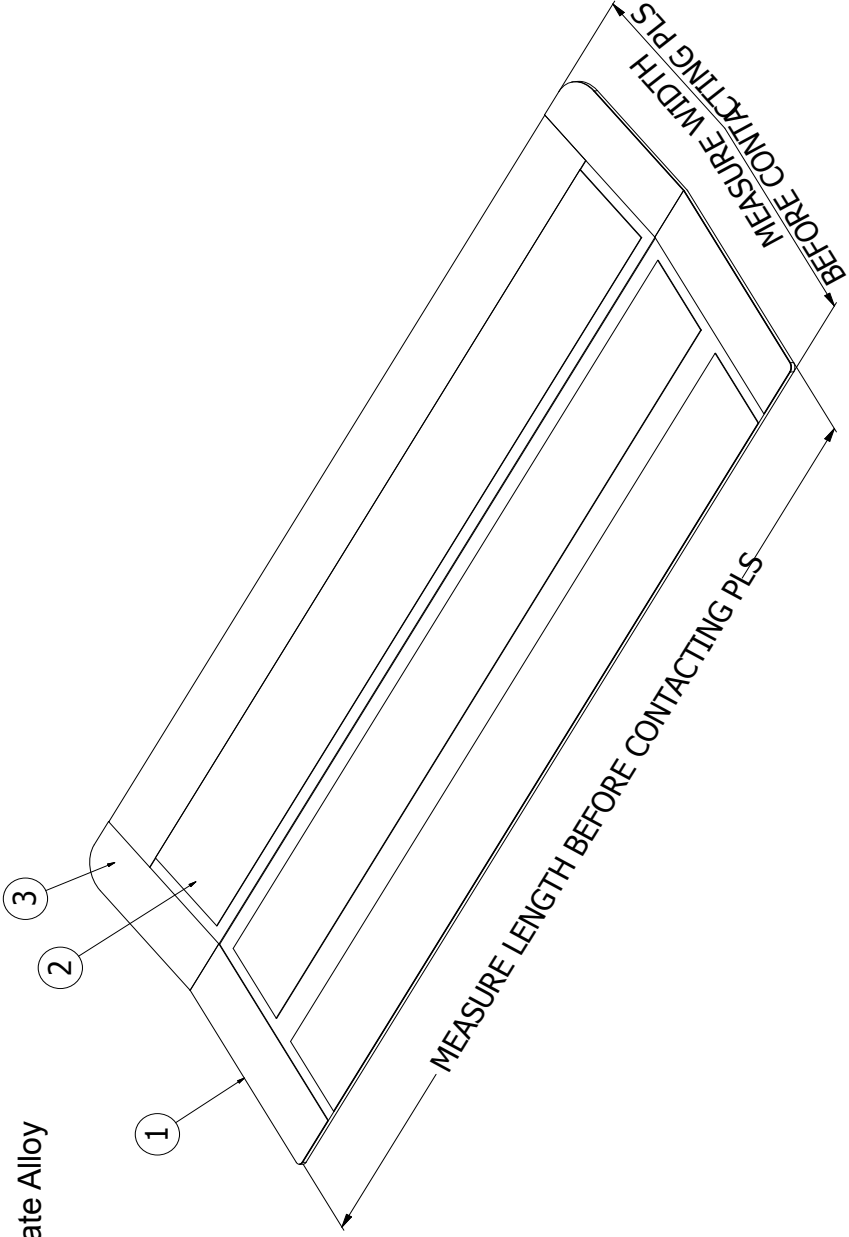
Bridge Plate Assembly Post 2019



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Contact PLS	ACC Bridge Plate CR ALLY
2	1	Contact PLS	ACC Bridge Plate Flange 2019
3	1	ACCP48BRP50544-22	ACC Bridge Plate Roller - 2019 - 22mm
4	2	Contact PLS	ACC Bridge Plate Torsion Bar
5	Varies	Contact PLS	B166P-1005-050-G1 Tribo Tape 50mm wide - 30 m Roll
6	1	FASB1/0839	18 X 5/16 Socket Capscrew
7	1	FASB1/0893	1/8" Hex Nut
8	7	FASB1/0901	4.8 X 1.5 Dome Head Rivet
9	Varies	Contact PLS	50mm Width Clearing Roll
10	3	HASCL07240	Black Clearing 75 x 740mm

Note:- Fixings may vary

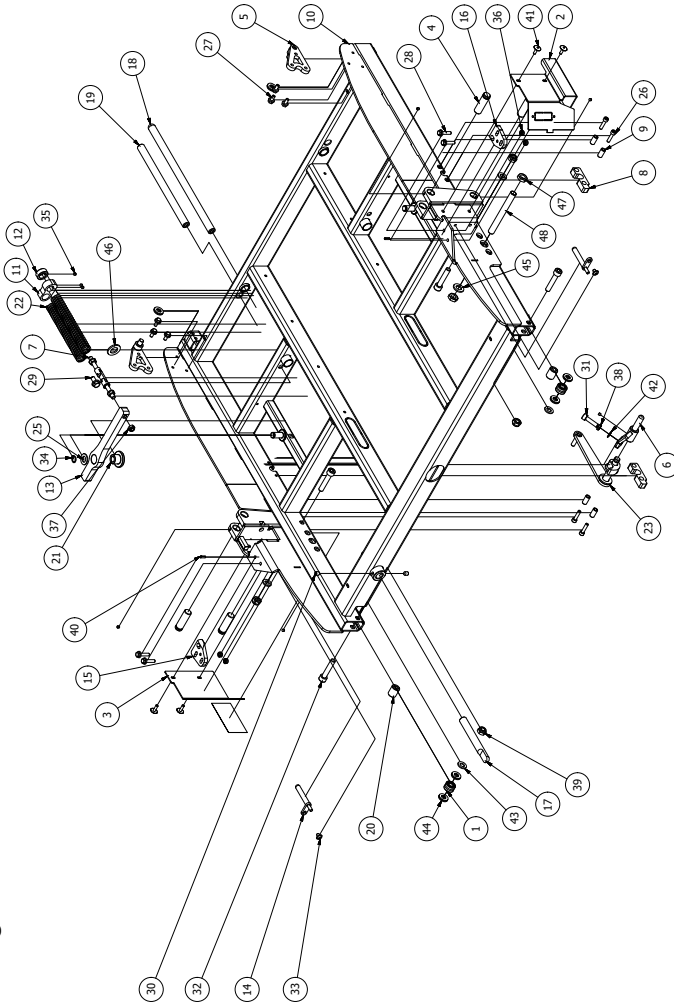
24 Bridge Plate Alloy



PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	Contact PLS	ACC Bridge Plate Folded Alloy
2	3	HASCL/0740	Black Clearing 75 x 740mm
3	1.470 m	HASCL/0002	50mm Yellow Clearing Roll 18.3m

Note:- Fixings may vary

Platform "H" Single Mechanism



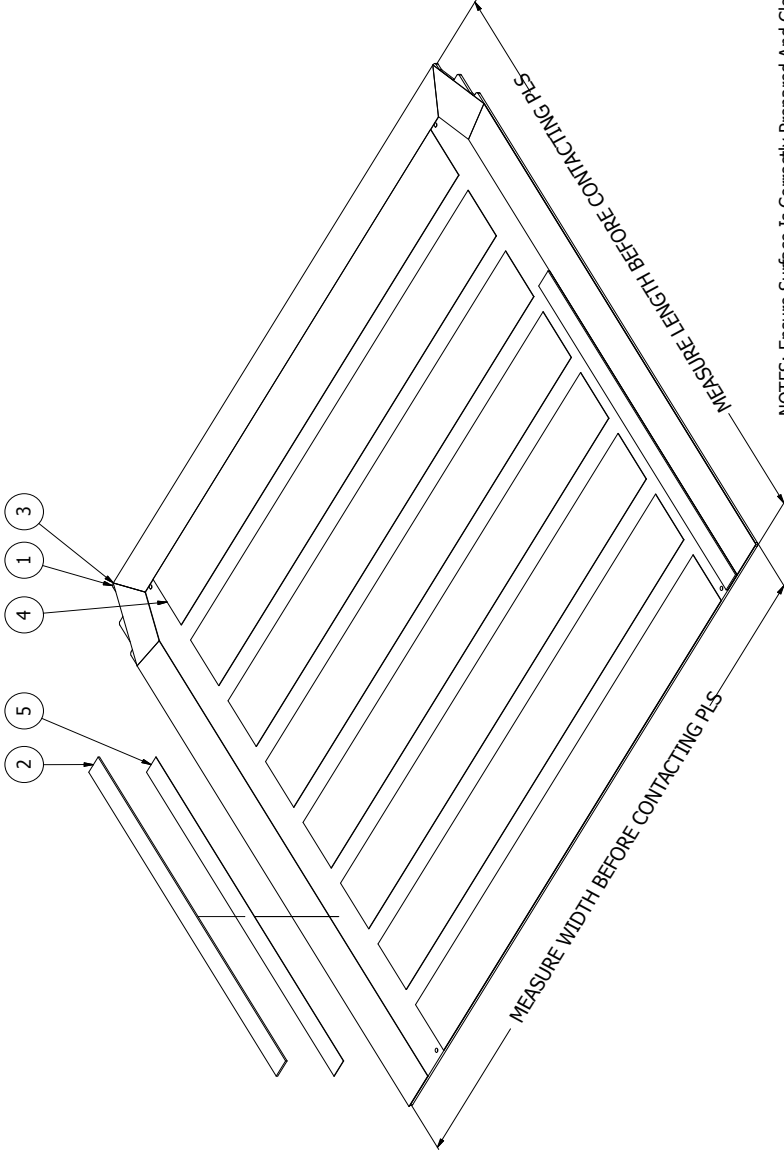
Note:- Fixings may vary

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ACC25542	Platform Bearing LH/R3 (NA49002-R5)
2	1	ACCALYPLA50349	ACC Platform Side Post RH
3	1	ACCALYPLA50350	ACC Platform Side Post LH
4	4	ACCFCBARMS0266	ACC Arm Pin Plain
5	2	ACCFCBARMS0268	ACC Bridge Plate Hinge Plate Pivot
6	1	ACCFCBARMS0269	ACC Bridge Plate Adjuster Cam LH
7	1	ACCFCBARMS0270	ACC Platform Swivel Joint
8	2	ACCFCBARMS0271	ACC Crank Pivot Plate
9	4	ACCFCBARMS0272	ACC Crank Pivot Plate Spacer
10	1	ACCFCBARMS0273	ACC Crank Pivot Plate
11	1	ACCFCBARMS0274	ACC Platform Double Collar
12	1	ACCFCBARMS0275	ACC Platform Single Collar
13	1	ACCFCBARMS0276	ACC Platform Rocker Bar
14	2	ACCFCBARMS0277	ACC Platform Handrail Pin

15	1	ACCFCBARMS0335-LH	ACC Platform Handrail Block LH
16	1	ACCFCBARMS0335-RH	ACC Platform Handrail Block RH
17	1	ACCFCBARMS0336	ACC Platform Handrail Pin Nut
18	1	ACCFCBARMS0337	ACC Platform Push Rod
19	1	ACCFCBARMS0338	ACC Platform Double Push Rod
20	2	ACCFCBARMS0339	ACC Platform Extension Roller
21	1	ACCFCBARMS0340	ACC Platform Rocker Bar Plug
22	2	ACCFCBARMS0341	ACC 200mm Slong Bridge Plate Spring
23	1	BRPACAS1510-9610-LH	ACC Bridge Plate Crank High LH Assembly
24	1	CONLB/0004	Small LOUER Sticker
25	1	FASBU087	M12 Form B Washer A2
26	4	FASBU088	M6 x 25 Socket Head Cap Screw
27	4	FASBU089	M6 x 16 Flat Washer Form A
28	6	FASBU090	M6 x 16 CL100 HT HEX S/L Z/P
29	4	FASBU091	M6 x 16 Flat Washer Form A
30	2	FASBU092	M8 x 10mm Cup Point Grub Screw DIN 914
31	1	FASBU093	M8 x 30 Socket Head Cap Screw

32	4	FASBU1041	M10 x 50 Socket Head Cap Screw
33	2	FASBU1042	M6 x 8 Socket Large Flange Head Set A2
34	1	FASBU1043	Internal Cup
35	6	FASBU1044	M5 x 6mm Cup Point Grub Screw DIN 914
36	4	FASBU1045	M6 Nylock Nut
37	1	FASBU1046	M8 Nylock Nut
38	1	FASBU1047	M8 Half Nut
39	4	FASBU1048	M10 Nylock Nut
40	2	FASBU1049	4.8 x 16 Large Flange Head Rivet
41	4	FASBU1050	M8 Internal Star Washer
42	1	FASBU1051	M10 Plain Washer Form A
43	12	FASBU1052	M6 Plain Washer Form A
44	1	FASBU1053	M12 Plain Washer Form A
45	1	FASBU1054	M16 Plain Washer Form A
46	2	FASBU1055	1/4 BSP Locknut (PLS10)
47	2	FASBU1056	1/4 BSP Barrel All thread (PLS14)
48	1	FASBU1057	HYDROT/0001

26 Platform Alloy

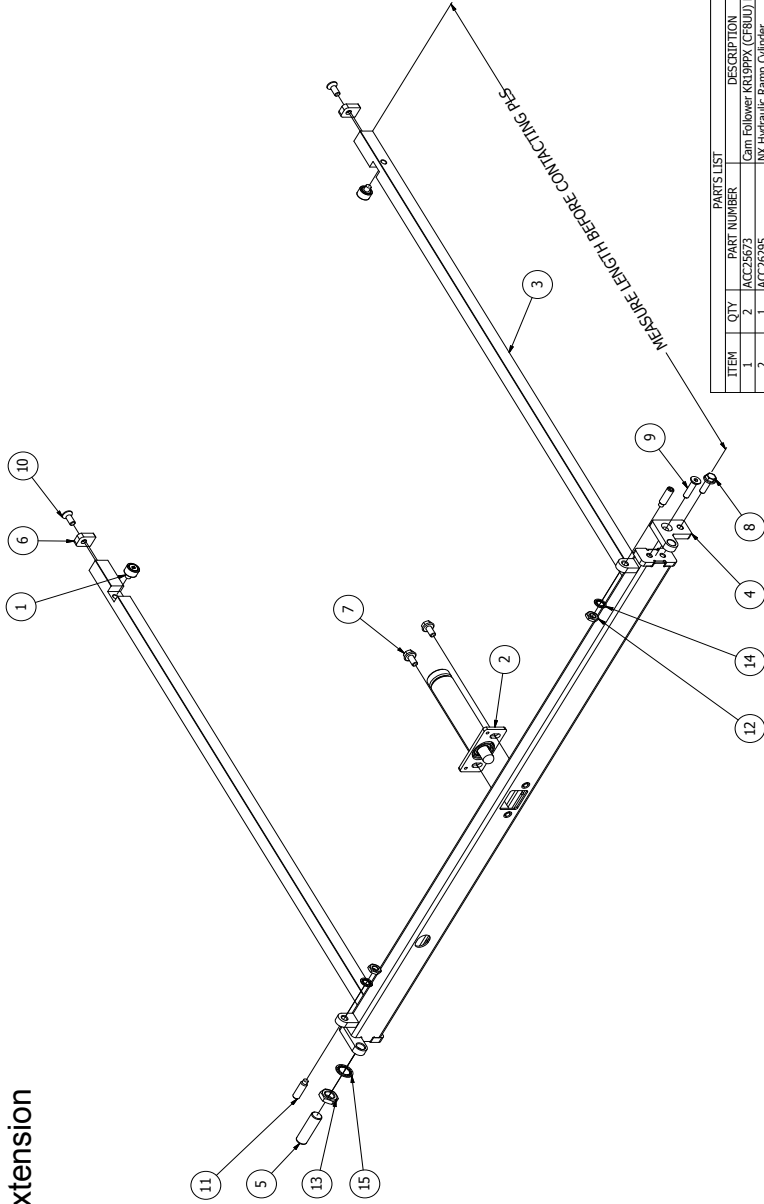


NOTES: Ensure Surface Is Correctly Prepared And Cleaned

PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	Contact PLS	ACC Platform Ally	
2	2	ACC25742/A	Nylon Wear Strip 500 x 25 x 2mm	
3	2.620 m	HASCL/0002	50mm Yellow Clearing Roll 18.3m	
4	8	HASCL/0740	Black Clearing 75 x 740mm	
5	1.000 m	PACTP/0001	25 mm Double Sided Tape / Glue	

Note:- Fixings may vary

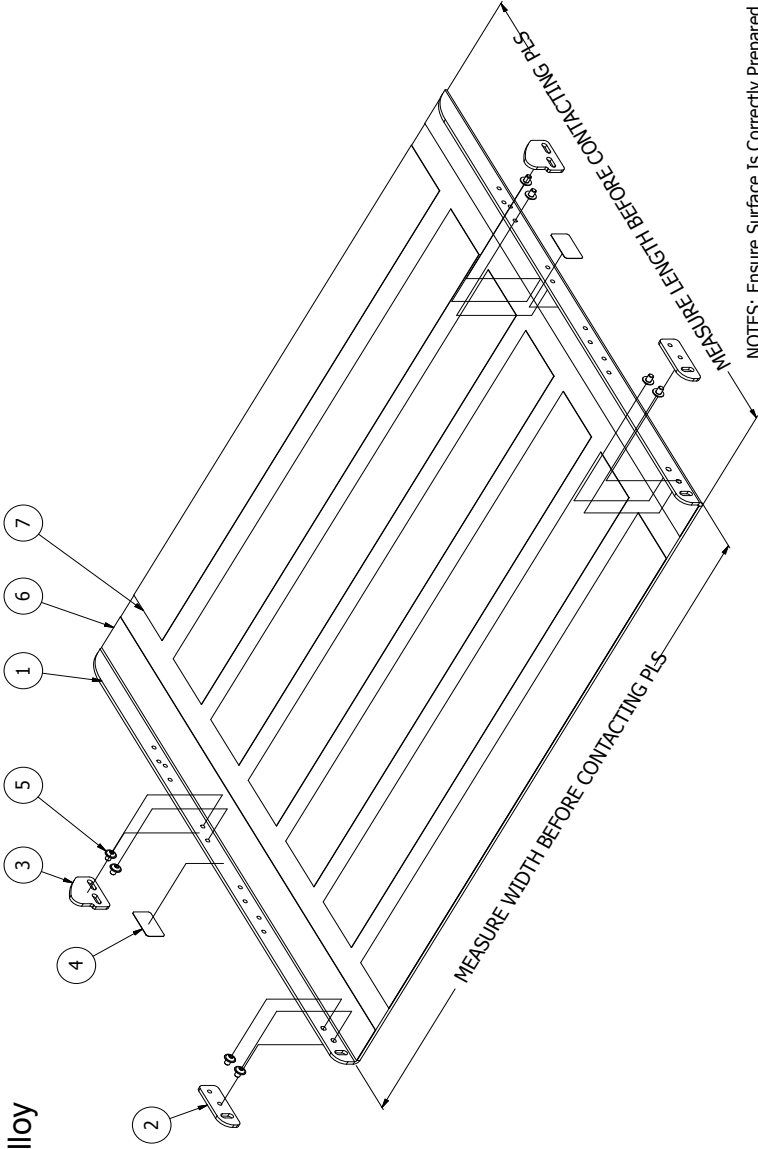
Platform Extension



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	2	ACC-FE24
2	1	ACC-FE205
3	1	ACC-FE206
4	1	ACC-FE207
5	1	ACC-FE208
6	2	ACC-FE209
7	2	ACC-FE210
8	1	ACC-FE211
9	1	ACC-FE212
10	2	ACC-FE213
11	OR	ACC-FE214
12	2	ACC-FE215
13	1	ACC-FE216
14	2	ACC-FE217
15	1	ACC-FE218

Note:- Fitings may vary

28 Extension Alloy

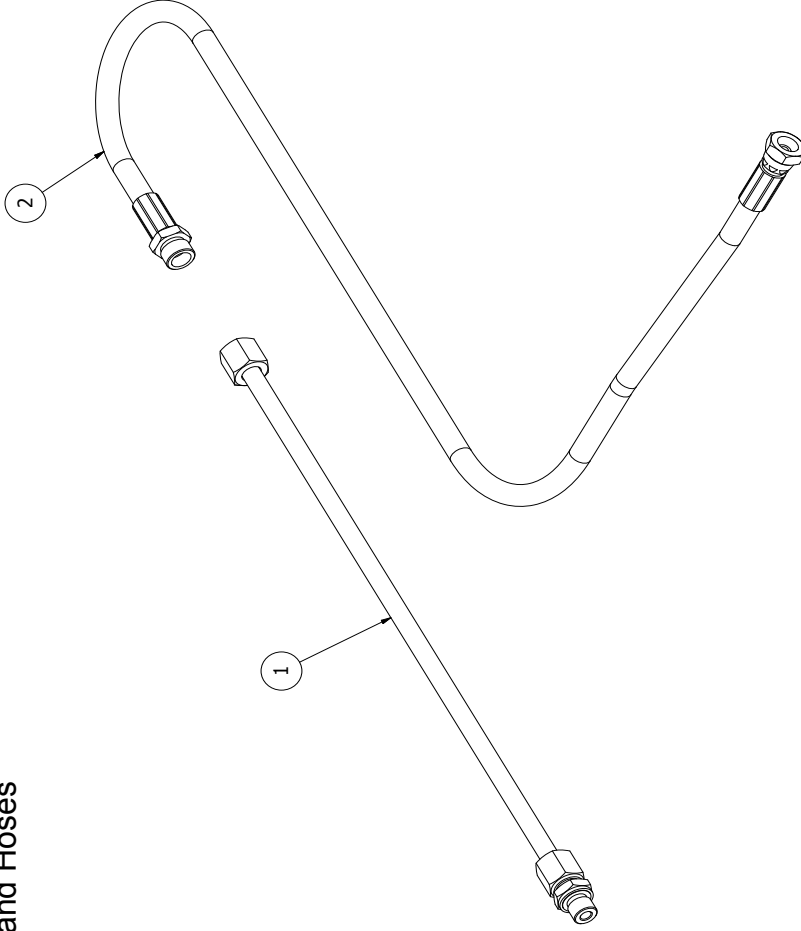


NOTES: Ensure Surface Is Correctly Prepared And Cleaned

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	Contact PLS
2	2	Contact PLS
3	2	Contact PLS
4	0.048 m	ACC Extension Handrail Stop
5	8	ACC Extension Aluminum
6	1.400 m	ACC Extension End Plate
7	7	ACC Extension Handrail Stop
		Handrail H3418 Tape 40mm x 18.3m Black
		M6 x 8 Socket Large Flange Head Set A2
		50mm Yellow Clearing Roll 18.3m
		Black Clearing 75 x 740mm

Note:- Fixings may vary

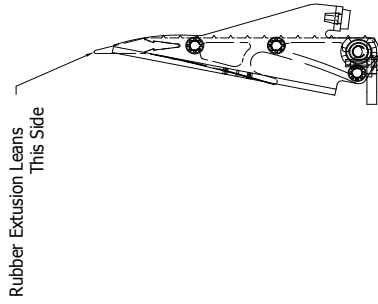
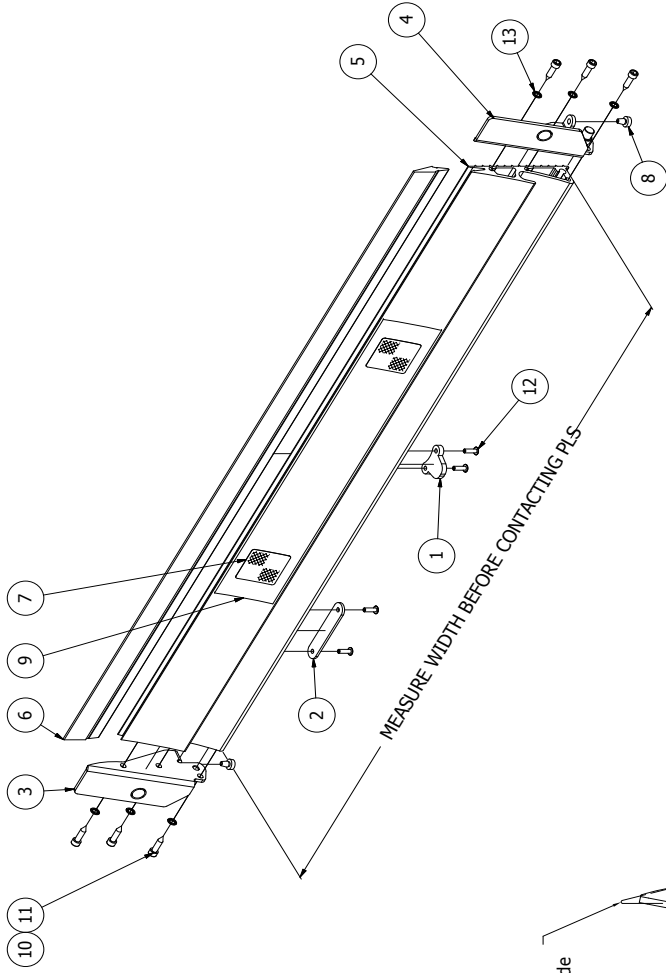
Extension Pipe and Hoses



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACC26199-T	10 x 1.5 x 395mm Extension Tube
2	1	ACCYDHO530-005-885	ACC Extension Pipe Hose 885

Note:- Fixings may vary

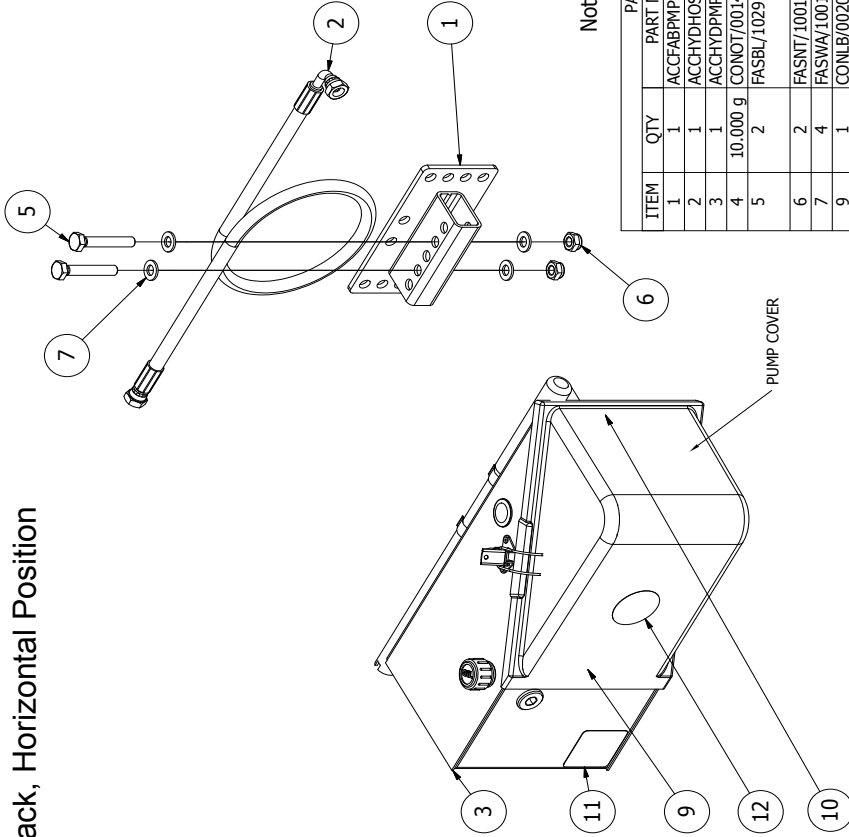
30 Roll-Off-Ramp



PARTS LIST		
ITEM	QTY	PART NUMBER DESCRIPTION
1	1	ACCFABROR50654 ACC Piston Plate
2	1	ACCFABROR50655 ACC 3mm Dummy Plate
3	1	ACCFABROR50656-LH ACC Roll Off Ramp Hinge Plate LH
4	1	ACCFABROR50656-RH ACC Roll Off Ramp Hinge Plate RH
5	1	ACC Extruded Ramp 2015
6	1	Contact PLS
7	2	ACCPRISREFRREDTAPE-R RED REFLECTIVE PRISMATIC TAPE 50 x 50 x 50mm
8	2	CONIEG/0001 Handrail Rubber Stop
9	1	CONIB/0014 Access Ramp Sticker PLS314
10	0.005	ADTHR/0001 AT1042 Threadlock Adhesive PermaBond 50ml
11	6	FASFC/9001 6.3 x 2.5mm A2 Socket Cap Head Self Tapper (per 100)
12	4	FASRV/0001 4.8 x 16 Dome Head Rivet
13	6	FASWA/0603 M6 Internal Star Washer

Note:- Fixings may vary

External Enclosed Pack, Horizontal Position

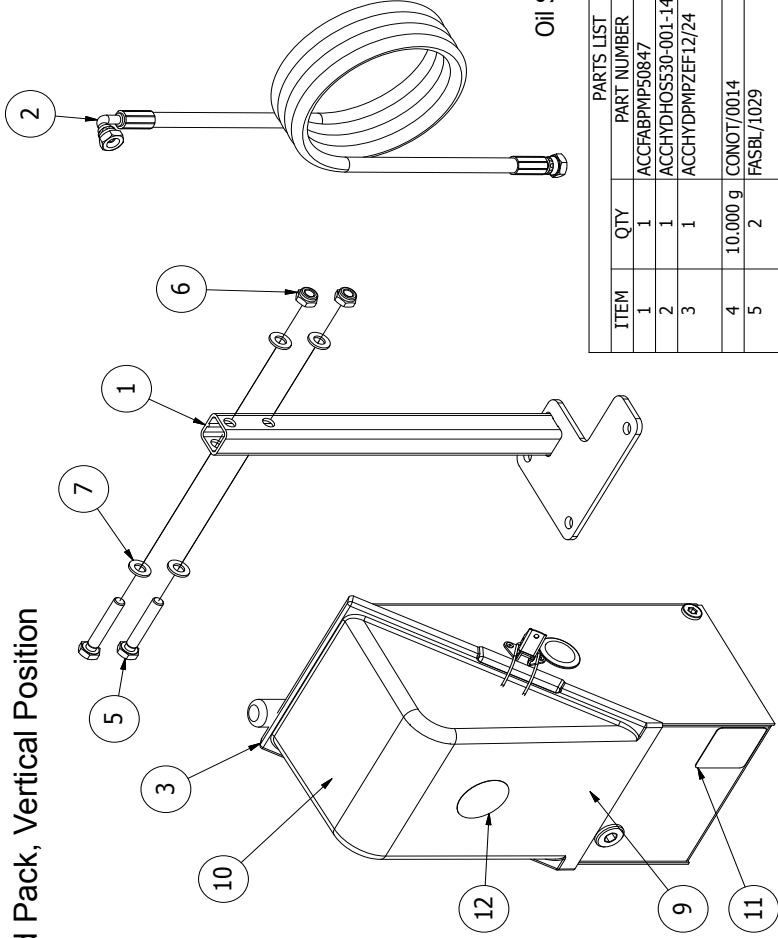


Note: Oil Supplied Separately

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	ACC External Pump Bracket
2	1	ACC Outer Box Hose 700
3	1	RFP Enclosed Pack 12V/24V
4	10,000 g	500g Petroleum Jelly
5	2	M10 x 60 Hex Head Set Screw
6	2	M10 Nylon Nut
7	4	M10 Plain Washer Form A
9	1	AF26 Alu Foil w/on Labels Serial No. (Pack 350)
10	1	WL28 LABEL LEGEND TESTED (PACK 350)
11	1	This Way Up & PLS Blue Sticker
12	1	Vinyl Round PLS Label

Note: - Fixings may vary

Internal Enclosed Pack, Vertical Position

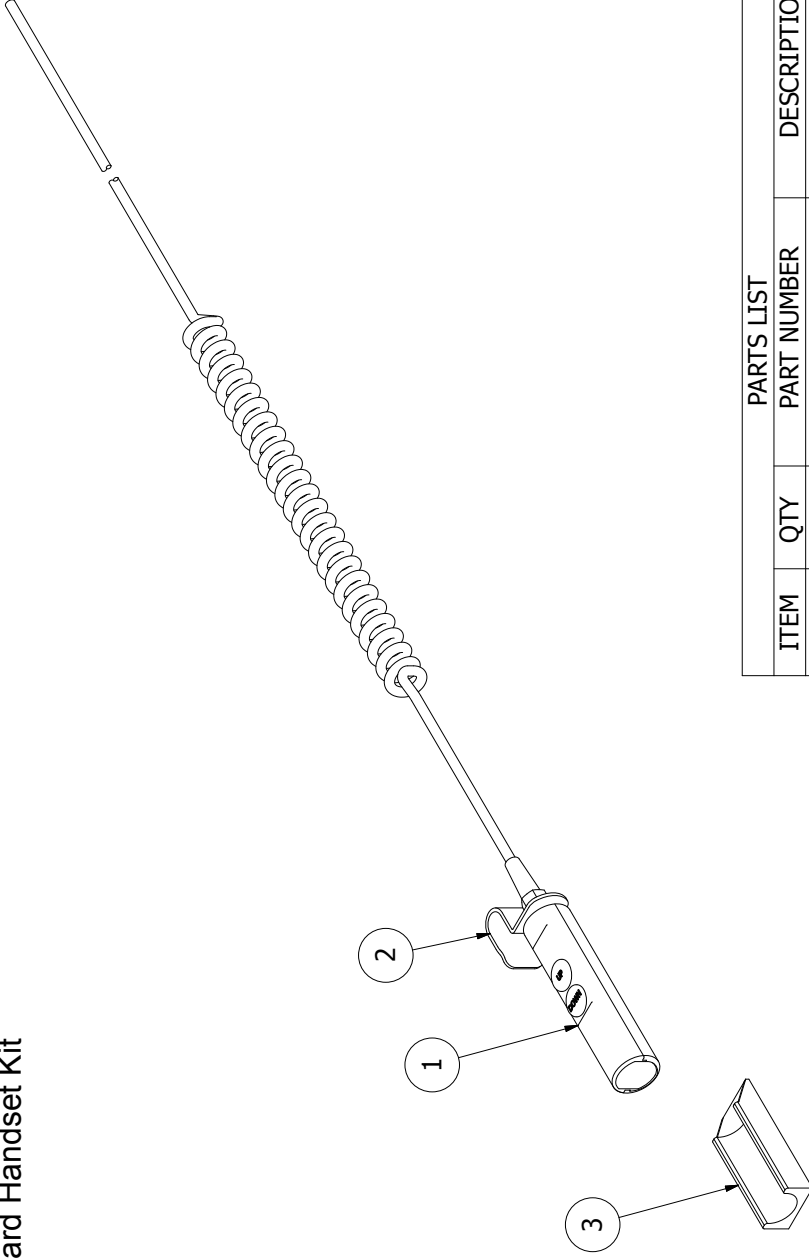


Notes:
Oil Supplied Separately

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	ACC Internal Pump Bracket
2	1	ACC Outer Box Hose 1400
3	1	RFP Enclosed High Pressure Pack 12V/24V
4	10.000 g	500g Petroleum Jelly
5	2	M10 x 60 Hex Head Set Screw
6	2	M10 Nyloc Nut
7	4	M10 Plain Washer Form A
9	1	AF26 Alu Foil w/on Labels Serial No. (Pack 350)
10	1	WL28 LABEL LEGEND TESTED (PACK 350)
11	1	This Way Up & PLS Blue Stricker
12	1	Vinyl Round PLS Label

Note:- Fixings may vary

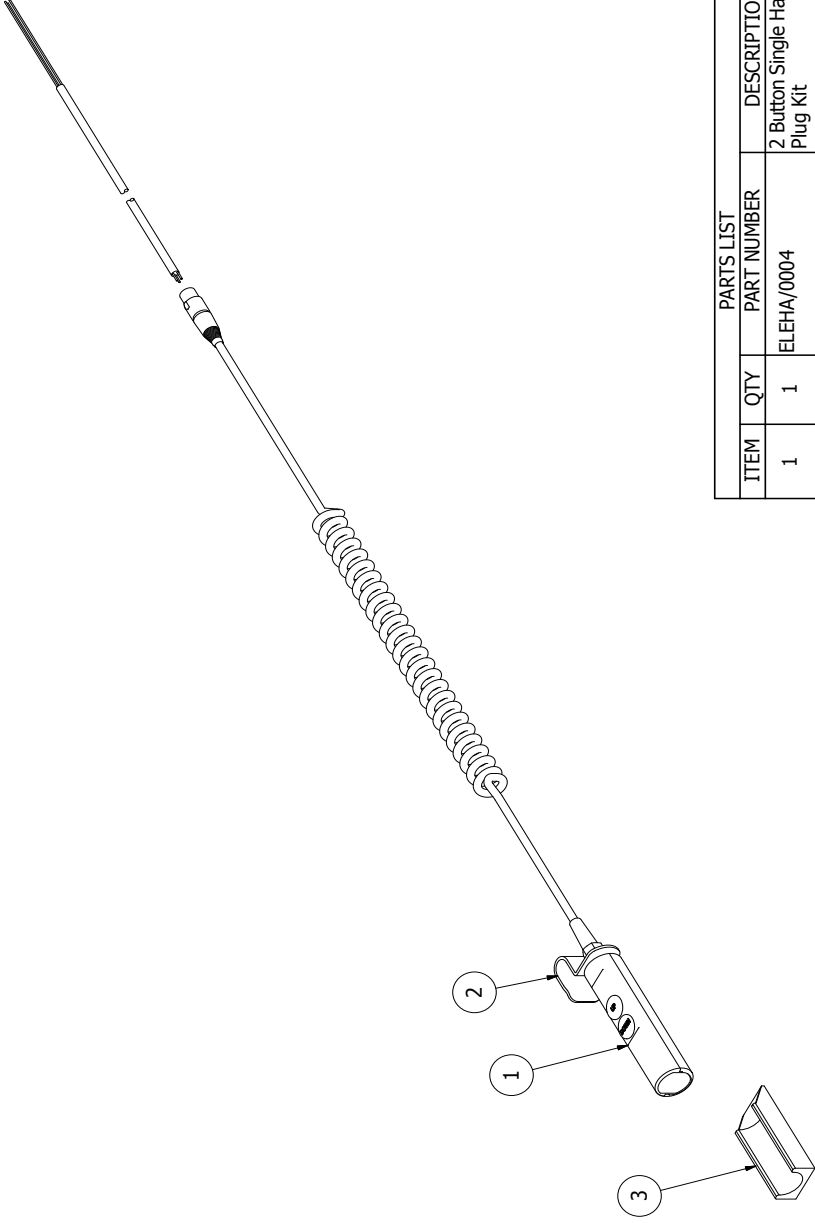
Standard Handset Kit



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCCHSET15035-01	Handset Unit 2-Button 1mm>2
2	1	ACCALYHAN50735	ACC Standard Handset Hook
3	1	ACC25631	Holster

Note:- Fixings may vary

34 Handset Kit

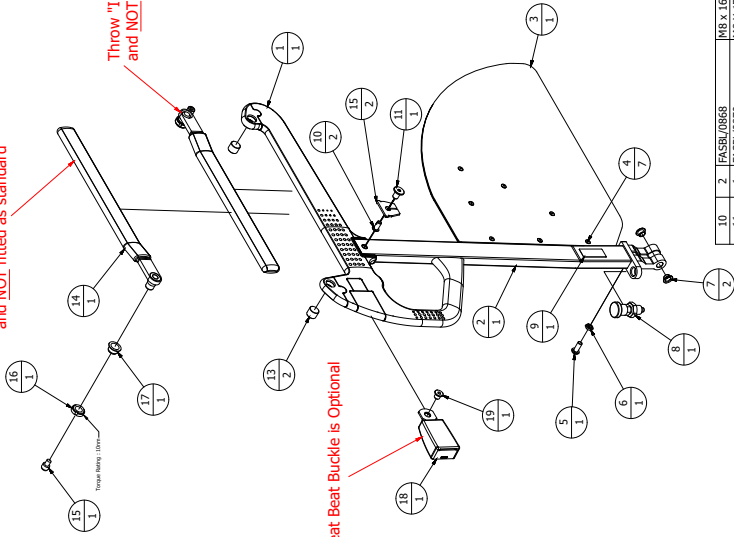


PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	2 Button Single Handset Plug Kit
2	2	ACC Standard Handset Hook
3	1	ACC25631 Holster

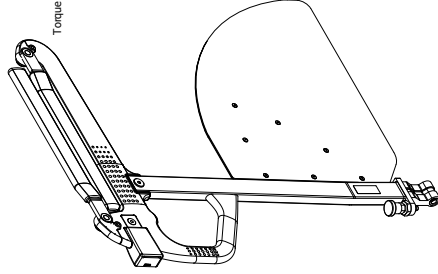
Note:- Fixings may vary

Moulded Handrail Assembly

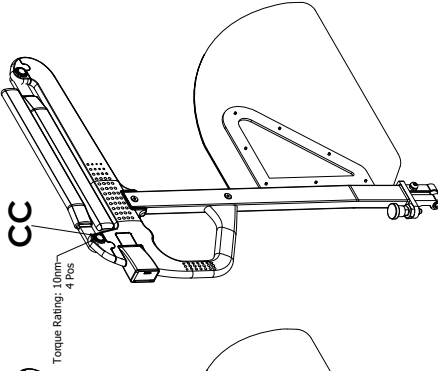
Throw "Out" Handrail is Optional and **NOT** fitted as standard



ASYACCHAN510-0708 LH



ASYACCHAN510-0708 RH

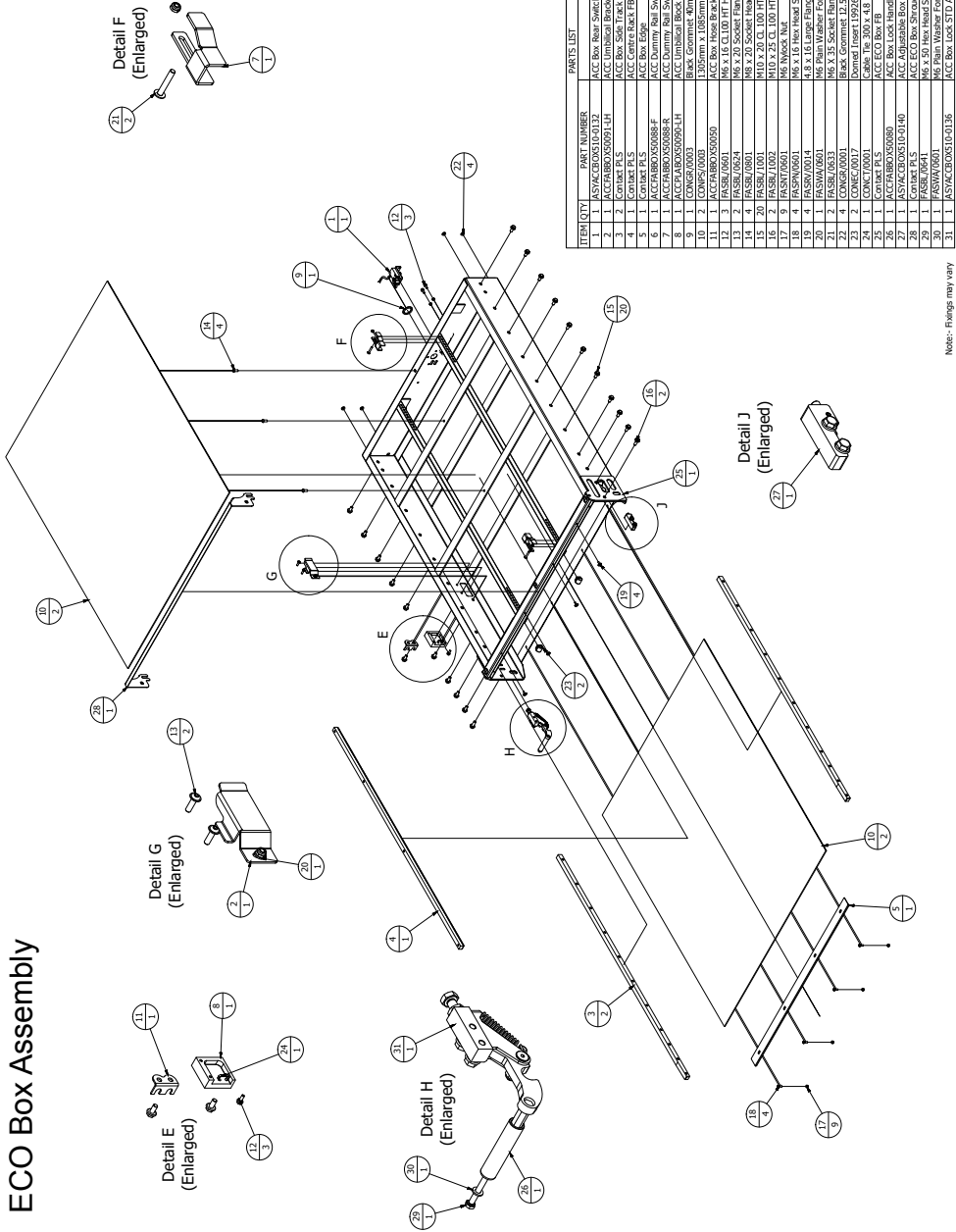


ITEM	QTY	PART NUMBER	DESCRIPTION
10	2	FASBU/0868	M8 x 16 Socket Head Cap Screws Special Low Profile
11	1	FASBU/0870	M8 X 15 Flat Head Socket Innerscrew
12	2	ACCFBANHS0793	M10M Insert Hole Plug
13	1	ACCFBANHS0791	ACC Handrail Guard LH
14	1	ACCFBANHS0789	ACC Handrail Guard LH
15	1	FASBU/0869	M8 x 10 Socket Head Cap Screw
16	1	FASNT/1502	GLUS Self Locking Nut 15x1
17	1	ACCB672	IGUS Flang Bush 16x18x9
18	1	98BLADEBUCKLE	90mm Blade Buckle
19	1	FASBU/1056	M10 x 10 Socket Head Cap Screws Special Low Profile

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFBANHS0788	ACC Moulded Handrail Guard LH
2	1	ACCFBANHS0781	ACC Handrail Guard LH
3	1	ACCFBANHS0781	ACC Handrail Guard LH
4	7	FASBU/0008-BLK	3.2 x 10 Large Flange Head Rivet Black
5	1	FASNT/0801	M8 x 20 Socket Head Dome
6	1	FASNT/0802	M8 Half Nut
7	2	FASBU/0003	Flange Glacer Bush 10x12x7
8	1	GN717-R-M16x1.5-BK-NI	S/S Steel M16 Index Plunger & Nut
9	1	CONLB/0012	Pull To Unlock Sticker

Note:
Material To Be Removed To Suit Options

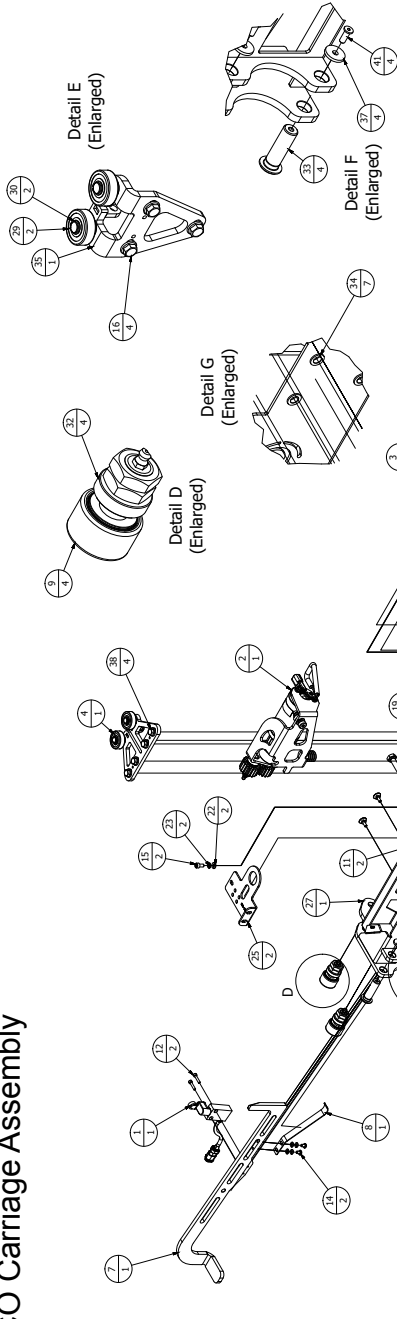
36 ECO Box Assembly



ITEM QTY	PART NUMBER	DESCRIPTION
1	ASVACB030051D-0136	ECO Box, STD Assembly
1	ASVACB030051D-0137	ECO Box, STD Assembly
1	ACC FABR0250099-LH	ACC Unimodal Bracket LH
3	ACC FABR0250099-RH	ACC Box Side Track
2	Combit PLS	Combit PLS
4	Combit PLS	Combit PLS
1	ACC FABR0250099-F	ACC Box Edge Rail Switch Bracket Front
1	ACC FABR0250099-R	ACC Box Edge Rail Switch Bracket Rear
7	ACC FABR0250099-LH	ACC Unimodal Bracket LH
8	ACC FABR0250099-RH	ACC Unimodal Bracket RH
10	CONWS/0005	105 Qty x 105mm x 4.8mm 105 Qty x 105mm x 4.8mm
11	ACC FABR0250099	ACC Box Hose Bracket
12	FASW/0001	106 x 16 CL 100 HT HEX S/L Z/P
13	FASW/0004	106 x 20 SS Hex Head Dome Head AZ
14	FASW/0004	106 x 20 SS Hex Head
15	FASW/1001	M10 x 20 CL 100 HT HEX S/L Z/P
16	FASW/1002	M16 x 25 CL 100 HT HEX S/L Z/P
17	FASW/0001	106 x 16 Hex Head
18	FASW/0001	106 x 16 Hex Head Set Screw
19	FASW/0014	4.8 x 16 Large Elong Hex Head Rivet
20	FASW/0001	106 Plain Washer Form A
21	CONWS/0003	106 x 35 SS Hex Head
22	CONWS/0003	106 x 35 SS Hex Head Set Screw
23	CONWS/0017	106 x 17 SS Hex Head
24	CONWS/0017	106 x 17 SS Hex Head Set Screw
25	CONWS/0001	Downrod Insert 1.99x250
26	CONWS/0001	Capex Tee 300 x 4.8 Block
27	ASVACB030051D-0140	ECO Box, STD Assembly
28	Combit PLS	ACC Adaptable Box Lock Assembly
29	FASW/0001	106 x 16 Hex Head
30	FASW/0001	106 x 16 Hex Head Set Screw
31	ASVACB030051D-0136	ACC Box, LOGS STD Assembly

Note: Flanges may vary

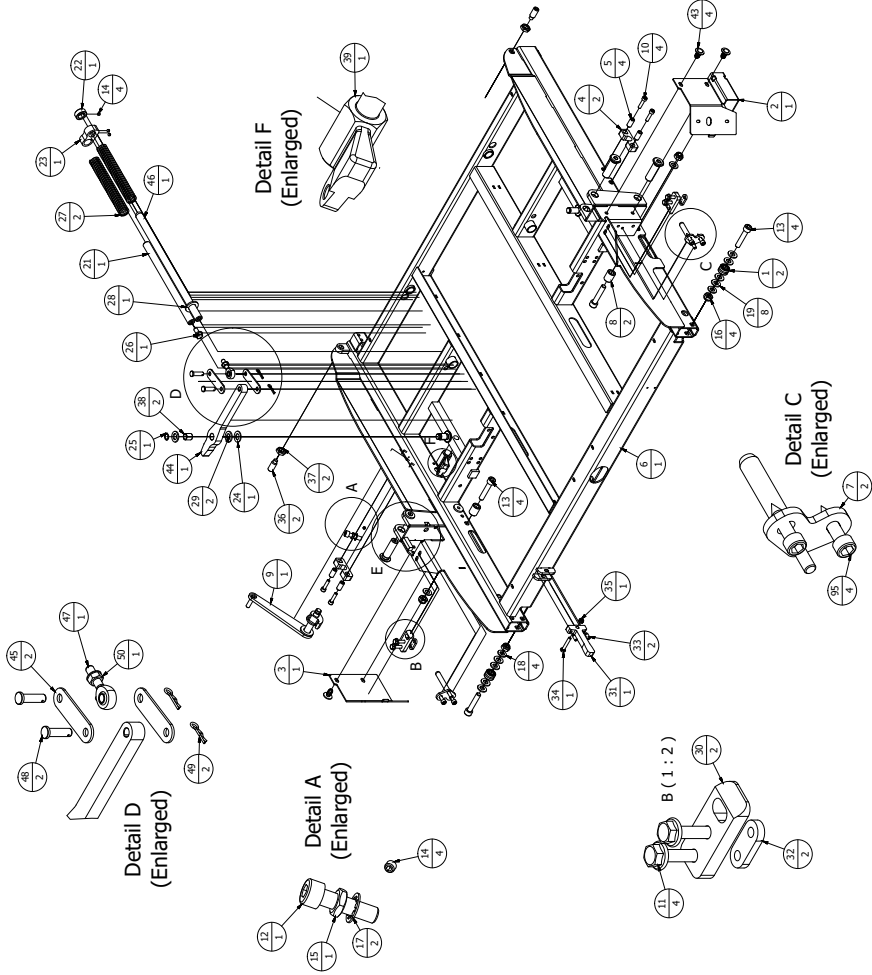
ECO Carriage Assembly



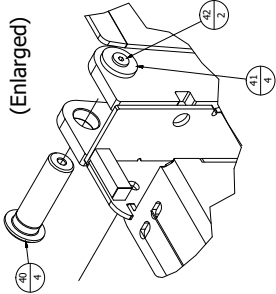
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFBARANS0113	ACC Switch (MCRN2113) With Dustcap Plug
2	1	ACCFBARANS01022R	ACC Switch Bracket Assembly 2018
3	2	ASVACCOARS10-022R	ACC Switch Bracket Assembly 2018
4	1	ASVACCOARS10-022R	ACC Switch Bracket Assembly 2018
5	1	ASVACCOARS10-022R	ACC Switch Bracket Assembly 2018
6	1	ACCECCOARS0113	ACC Carriage Wiring Harness
7	1	Contract PLS	ACC ECO Carriage Lock
8	1	ACCSRCBAR01136	ACC Carriage Lock Leaf Spring
9	4	BEACF0001	Cam Follower Straight Nipple MCRF 35 SBR-MGL
10	2	ELEC170002	Electrical Connector 2 Pin
11	2	ELEC170002	Electrical Connector 2 Pin
12	2	FASRN/0402	4.8 x 16 Large Flange Head Rivet
13	2	FASRN/0518	M6 x 20 Socket Head Cap Screw
14	2	FASRN/0613	M6 x 12 Socket Cap Head Screw
15	2	FASRN/0613	M6 x 12 Socket Cap Head Screw
16	4	FASRN/0605	M8 x 25 CL100 HT HEX SL Z/P
17	2	FASRN/0501	M5 NIOS Nut
18	2	FASRN/0501	M5 NIOS Nut
19	3	FASRN/0501	M5 NIOS Nut
20	4	FASRN/0014	4.8 x 16 Large Flange Head Rivet
21	12	FASRN/0501	M5 Plain Washer Form A
22	2	FASRN/0501	M5 Plain Washer Form A
23	2	FASRN/0603	M6 Internal Star Washer
24	1	FASRN/1091	M10 Nylon Washer Form A
25	2	GNVAFBAR05013000	GNVA Carriage Anti Twist Bracket STD
26	1	Contract PLS	GNVA Carriage Anti Twist Bracket STD
27	1	Contract PLS	GNVA Carriage Anti Twist Bracket STD
28	1	ACCFBARANS01132	ACC ECO Carriage Lock Pin
29	2	BEARN/0001	BEARN/0001
30	1	FASRN/1001	M10 NIOS Nut
31	2	FASRN/1001	M10 NIOS Nut
32	4	ACCFBARANS01134	ACC ECO Carriage Lock Pin
33	4	ACCFBARANS01134	ACC ECO Carriage Lock Pin
34	1	ACCFBARANS01135	ACC ECO Carriage Lock Pin
35	7	ACCFBARANS01135	ACC ECO Carriage Lock Pin
36	3	FASRN/0018	Hex Rivet M10
37	4	ACCFBARMS02097	ACC ECO Arm Pin Washer
38	4	FASRN/1004	M10 x 1.5 CL100 HT HEX SL Z/P
39	3	FASRN/1004	M10 x 1.5 CL100 HT HEX SL Z/P
40	3	FASRN/1004	M10 x 1.5 CL100 HT HEX SL Z/P
41	4	FASRN/0619	M6 x 16 Socket Head Cap Screw Special Low Profile

Note: - Flange may vary

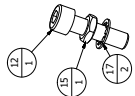
ECO Platform "H" Single Mechanism



Detail E
(Enlarged)



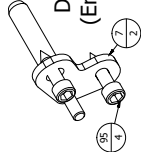
Detail A
(Enlarged)



Detail F
(Enlarged)



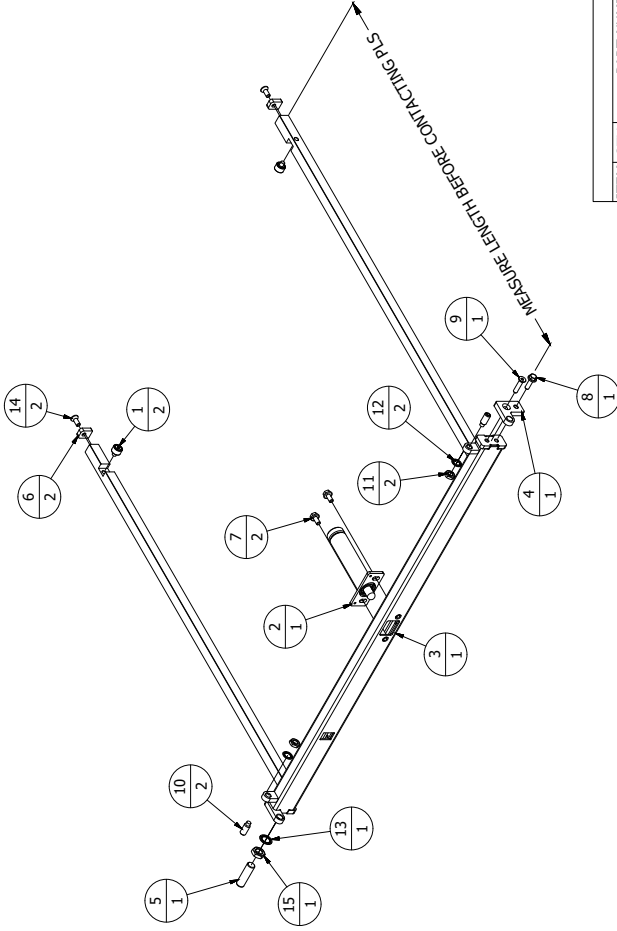
Detail C
(Enlarged)



ITEM NO.	PART NUMBER	PART LIST
1	KAC-251-452	FRONT BRACKET
2	KAC-251-452	FRONT BRACKET
3	KAC-251-452	FRONT BRACKET
4	KAC-251-452	FRONT BRACKET
5	KAC-251-452	FRONT BRACKET
6	KAC-251-452	FRONT BRACKET
7	KAC-251-452	FRONT BRACKET
8	KAC-251-452	FRONT BRACKET
9	KAC-251-452	FRONT BRACKET
10	KAC-251-452	FRONT BRACKET
11	KAC-251-452	FRONT BRACKET
12	KAC-251-452	FRONT BRACKET
13	KAC-251-452	FRONT BRACKET
14	KAC-251-452	FRONT BRACKET
15	KAC-251-452	FRONT BRACKET
16	KAC-251-452	FRONT BRACKET
17	KAC-251-452	FRONT BRACKET
18	KAC-251-452	FRONT BRACKET
19	KAC-251-452	FRONT BRACKET
20	KAC-251-452	FRONT BRACKET
21	KAC-251-452	FRONT BRACKET
22	KAC-251-452	FRONT BRACKET
23	KAC-251-452	FRONT BRACKET
24	KAC-251-452	FRONT BRACKET
25	KAC-251-452	FRONT BRACKET
26	KAC-251-452	FRONT BRACKET
27	KAC-251-452	FRONT BRACKET
28	KAC-251-452	FRONT BRACKET
29	KAC-251-452	FRONT BRACKET
30	KAC-251-452	FRONT BRACKET
31	KAC-251-452	FRONT BRACKET
32	KAC-251-452	FRONT BRACKET
33	KAC-251-452	FRONT BRACKET
34	KAC-251-452	FRONT BRACKET
35	KAC-251-452	FRONT BRACKET
36	KAC-251-452	FRONT BRACKET
37	KAC-251-452	FRONT BRACKET
38	KAC-251-452	FRONT BRACKET
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43	KAC-251-452	FRONT BRACKET
44	KAC-251-452	FRONT BRACKET
45	KAC-251-452	FRONT BRACKET
46	KAC-251-452	FRONT BRACKET
47	KAC-251-452	FRONT BRACKET
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49	KAC-251-452	FRONT BRACKET
50	KAC-251-452	FRONT BRACKET

Note: - Flings may vary

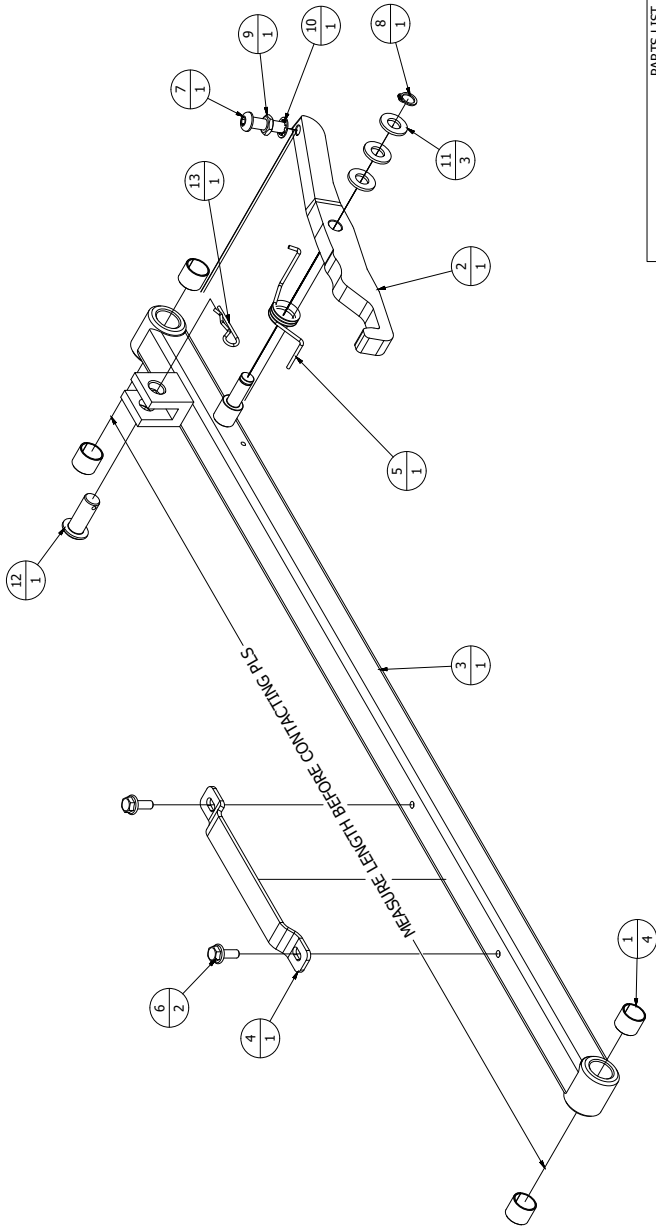
ECO Platform Extension



ITEM QTY	PART NUMBER	DESCRIPTION
1 2	ACCZ5673	Extension Cam Follower KR19PPX (CF8UU)
2 1	ACCZ6295	INX Hydraulic Ramp Cylinder
3 1	Contact PLS	ACC ECO Extension
4 1	ACCFABEXT50431-RH	ACC Extension Ramp Hinge Plate RH
5 1	ACCFABEXT150433	ACC Extension Lock Pin
6 2	ACCFABEXT50434-MS	ACC Platform Extension Stop Mild Steel
7 2	FASBL/0804	M8 x 16 CL 100 HT HEX S/L Z/P
8 1	FASBL/0805	M8 x 25 CL 100 HT HEX S/L Z/P
9 1	FASBL/0806	M8 x 35 Socket Head CSK
10 2	FASBL/1230	M12 x 30 Stainless Steel Socket Set
11 2	FASNT/1203	M12 Half Nut
12 2	FASWA/1203	M12 Internal Star Washer
13 1	FASWA/1603	M16 Internal Star Washer
14 2	FASBL/0823	M8 x 20 Socket Head CSK
15 1	FASNT/1603	M16 Half Nut

Note:- Fixings may vary

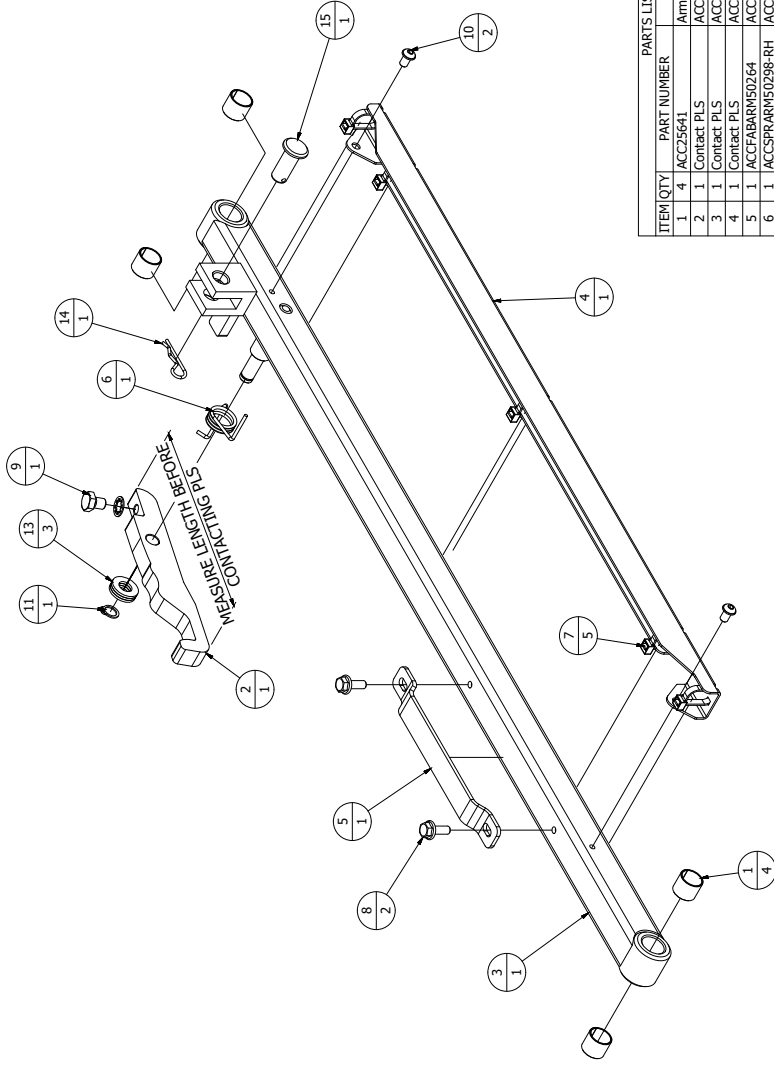
40 ECO Lower Left Arm



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	Contact PLS	ACC Arm Rocker 'B' LH
3	1	Contact PLS	ACC ECO Lower Left Arm
4	1	ACCFABARM50264	ACC Arm Top Hat
5	1	ACCFPRARM50298-LH	ACC Arm Rocker Spring LH
6	2	FASBL/0601	M6 x 16 Cl 100 HT HEX S/L Z/P
7	1	FASBL/0630	M8 x 30 Socket Head Dome
8	1	FASCC/1001	M10 External Circlip
9	1	FASNT/0802	M8 Half Nut
10	1	FASWA/0803	M8 Internal Star Washer
11	3	FASWA/1091	M10 Nylon Washer Form A
12	1	ACCFABARM50303	ACC Cylinder Clevis Pin
13	1	FLA5561	2.0 X 9-12 ST/ST R Clip (per 100)

Note:- Fixings may vary

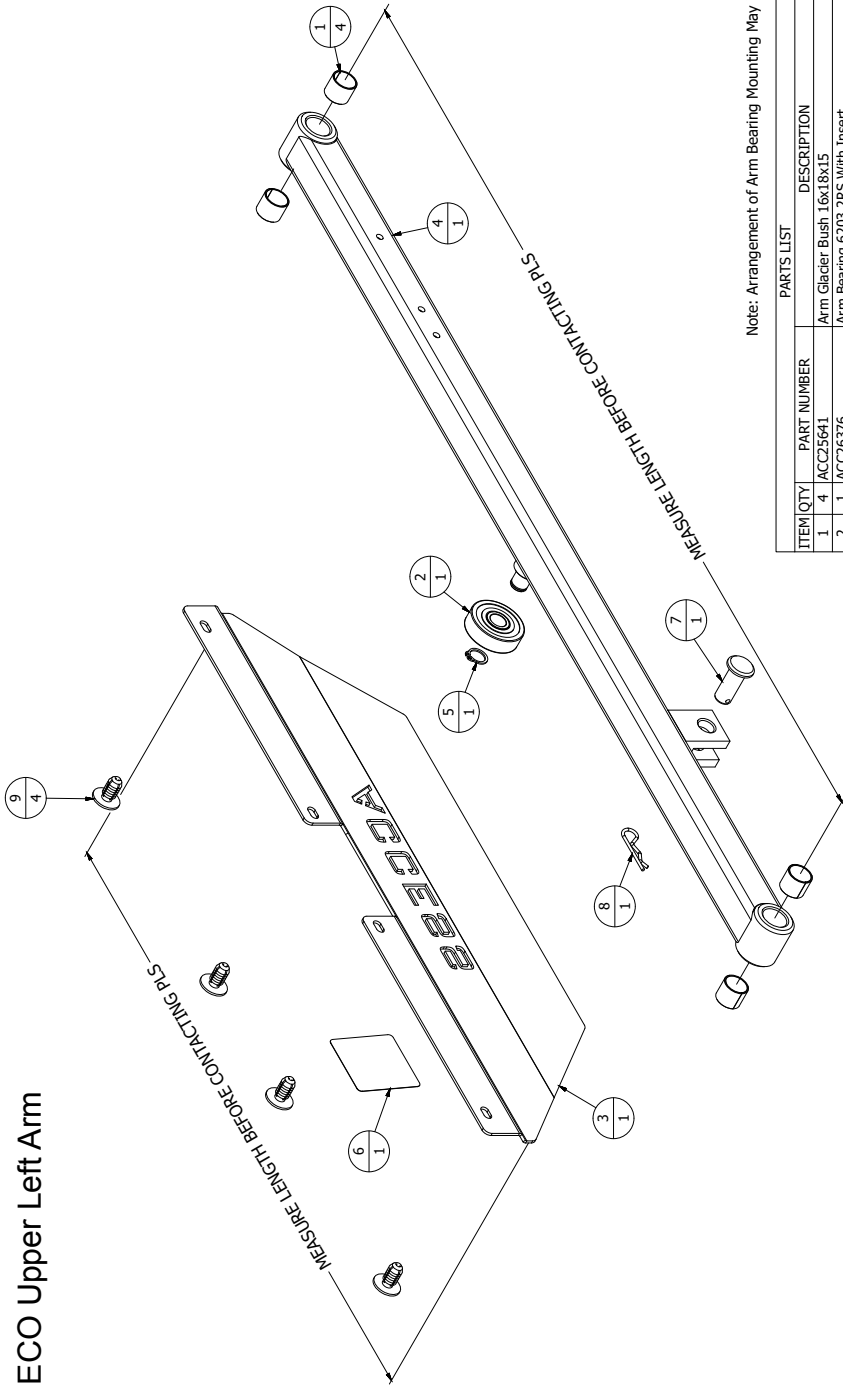
ECO Lower Right Arm



PARTS LIST			
ITEM QTY	PART NUMBER	DESCRIPTION	
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	Contact PLS	ACC Arm Rocker 'B' RH
3	1	Contact PLS	ACC ECO Lower Right Arm
4	1	Contact PLS	ACC Arm Hose Tray
5	1	ACCFABARM50264	ACC Arm Top Hat
6	1	ACCSPRARM50298-RH	ACC Arm Rocker Spring RH
7	5	CONCT/0001	Cable Tie 300 x 4.8 Black
8	2	FASBL/0601	M6 x 16 CL100-HT HEX.S/L Z/P
9	1	FASBL/0813	M8 x 10 Hex Head Set Screw
10	2	FASBL/9612	M6 x 10 Socket Flange Head Set A2
11	1	FASCC/1001	M10 External Circlip
12	1	FASWA/0803	M8 Internal Star Washer
13	3	FASWA/1091	M10 Nylon Washer Form A
14	1	FLA35581	2.0 X 9-12 5T/ST R Clip (per 100)
15	1	ACCFABARM50303	ACC Cylinder Clevis Pin

Note:- Fixings may vary

42 ECO Upper Left Arm

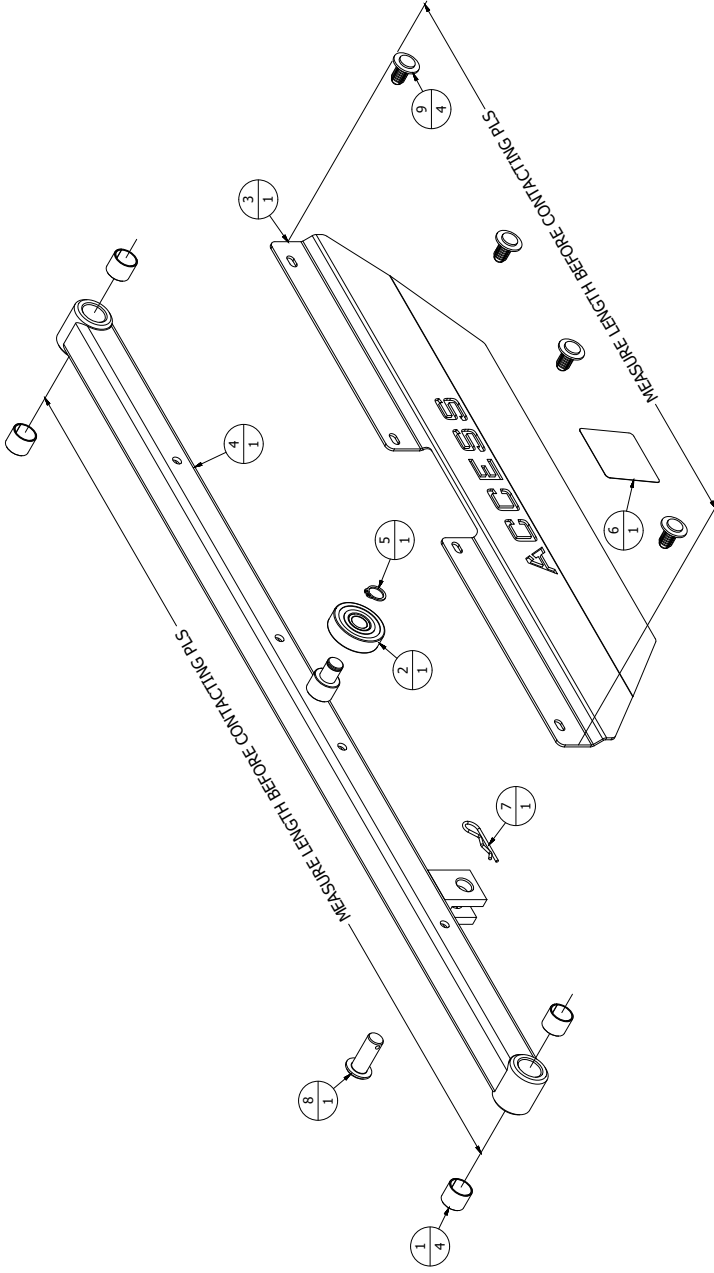


Note: Arrangement of Arm Bearing Mounting May Vary

ITEM QTY	PART NUMBER	DESCRIPTION	
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	ACC26376	Arm Bearing 6203 2RS With Insert
3	1	Contact PLS	ACC Arm Guard
4	1	Contact PLS	ACC ECO Upper Left Arm
5	1	FASCC1201	M12 External Circlip
6	1	ACCPRESREVELTAPE-Y	YELLOW REFLECTIVE PRISMATIC TAPE 50 x 50 x 50mm
7	1	ACCFABARM60303	ACC Cylinder Clevis Pin
8	1	FLA35581	2.0 X 9-12 57/ST R Clip (per 100)
9	4	CONEC/0019	Push Fit Expanding Rivet

Note:- Fixings may vary

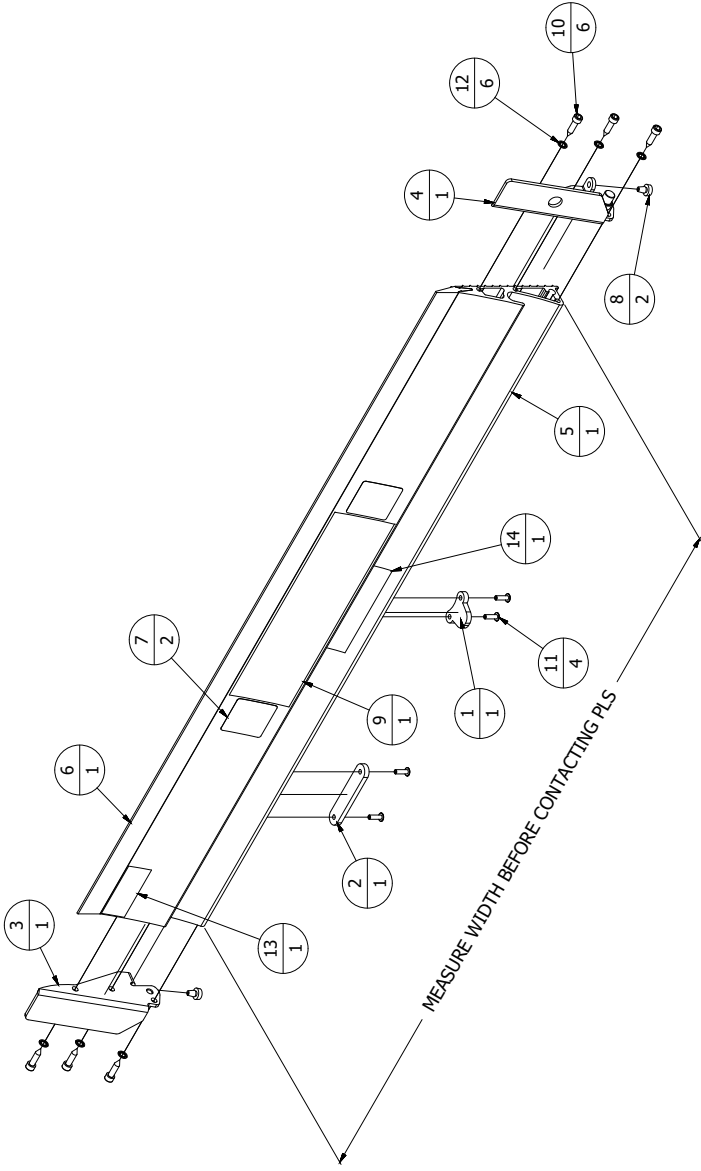
ECO Upper Right Arm



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	ACC25641	Arm Glacier Bush 16x18x15
2	1	ACC26376	Arm Bearing 6203 2RS With Insert
3	1	Contact PLS	ACC Arm Guard
4	1	Contact PLS	ACC ECO Upper Right Arm
5	1	FASCC/1201	M12 External Circlip
6	1	ACCPRISREFELTAPE-Y	YELLOW REFLECTIVE PRISMATIC TAPE 50 x 50 x 50m
7	1	FLA35581	2.0 X 9-12 5T R Clip (per 100)
8	1	ACCFABARRM50303	ACC Cylinder Clevis Pin
9	4	CONEC/0019	Push Fit Expanding Rivet

Note: - Fixings may vary

44 ECO Roll-Off-Ramp



8	2	CONEC/0001	Handrail Rubber Stop
9	1	LABEL/0011	Access Ramp Sticker
10	6	FASSC/9001	6.3 x 25mm A2 Socket Cap Head Self Tapper (per 100)
11	4	FASRV/0001	4.8 x 16 Dome Head Rivet
12	6	FASWA/0603	M6 Internal Star Washer
13	1	LABEL/0003	Correct Uncorrect Lifting Sticker
14	1	LABEL/0007	Handle Sticker

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ACCFABROR50654	ACC Piston Plate
2	1	ACCFABROR50655	ACC Dummy Plate
3	1	ACCFABROR50656-LH	ACC Roll Off Ramp Hinge Plate LH
4	1	ACCFABROR50656-RH	ACC Roll Off Ramp Hinge Plate RH
5	1	Contact PLS	ACC Extruded Ramp 2015
6	1	Contact PLS	ACC Extruded Ramp 2015
7	2	ACCPRISREFREDTAPE-R	RED REFLECTIVE PRISMATIC TAPE 50 x 50 x 50mm

Note:- Fixings may vary



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