Plinth | 2000

Dialysis Chair

Model: 93DY

SERVICE MANUAL

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Plinth 2000 Ltd is an ISO Audited company to ISO9001:2008

Our products are CE marked in conformity with the EC Directive MDD 93/42/EEC

1. Introduction

Thank you for purchasing a product from Plinth 2000 Ltd. We use the highest quality components and manufacturing techniques to ensure that our products are simple to use and will last a long time. It is recommended that all users read and retain this User Manual for reference.

Throughout this manual notice is made of a Warning and Caution system to highlight to the user practices, procedures or conditions that should either not be allowed to happen or happen with caution.

Warnings are in a box with bold type and identify potential hazards, procedures or conditions which could result in death, injury or serious damage.

Cautions are in a box with plain type and identify conditions or procedures where if caution is not taken it may result in damage or failure of equipment.

General Warnings

WARNING

Maximum Load (SWL) is 250kg distributed evenly.

Do not use flammable gasses in proximity to an electrically operated chair.

Do not concentrate weight on either side or either end of the chair.

Use only accessories approved for use with this chair.

Disconnect power supply before moving chair.

Children must be adequately supervised in the presence of the chair.

Do not allow children to play with the chair at any time.

2. Cleaning and Decontamination

WARNING

If contamination is suspected then decontaminate the chair before use.

Torn or damaged upholstery should be replaced immediately.

CAUTION

Do not use Alkalis or other organic solvents for routine cleaning.

Always cover the vinyl with paper towelling or couch covers if it can come into contact with bare skin.

Cleaning

Always wear suitable protective clothing before carrying out this procedure. Disconnect the mains supply to the chair and move it to a suitable cleaning area and lock the castors.

Step 1. Using warm water and soap on a damp cloth, carefully wipe the chair over from top to bottom. Take great care around electrical components.

Step 2. Wipe the chair carefully from top to bottom using a clean damp cloth and soap free water.

Step 3. Carefully dry the chair from top to bottom with clean lint free paper towels.

Decontamination

To decontaminate the chair repeat the above steps but using a dilute solution of Hypochlorite and warm water (10,000ppm) instead of warm water and soap. At the end of the procedure discard all cleaning materials in a safe manner and wash hands thoroughly.

3. Maintenance

Plinth 2000 Ltd products are designed to be maintenance free. However keeping your Plinth products clean and regularly checked will assist in prolonging their working life. The following is a guide of simple checks that the user can carry out on a six monthly basis. We would also recommend an annual service visit by a Plinth 2000 trained engineer.

WARNING

Disconnect chair from electrical supply before commencing any of the following checks.

Examine the chair for any signs of damage. Pay particular attention to all nuts, bolts and fasteners to check they are present and tight but not over tight.

Upholstery bolts should all be checked (each section has between 2 and 6 No. M6 bolts), they should all be present and tight.

Check gas struts (if fitted) and ensure that they operate through the full range of movement and lock fully.

Check hinge pins are lubricated and not rusty.

Check main chair nylon pivot bearings are lubricated sufficiently.

Examine mains and switch cables for any damage, cuts, kinks, abrasions etc. These must be replaced if necessary.

Check mains lead, switch cables and slave motor leads are all correctly and securely attached.

Check correct plug fuse is fitted (5A).

WARNING

Any electrical checks or work other than the visual inspection above must be performed by a qualified electrician.

Do not connect BLUE or BROWN wires to the earth terminal of a plug.

Plinth | 2000

Service Check Sheet

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- ☐ CORRECT COUCH TO BE SERVICED
- ☐ IDENTIFY SERIAL NUMBER
- ☐ IDENTIFY PUMP/MOTOR TYPE
- ☐ ANY SPECIFIC FAULTS ADVISED BY CUSTOMER
- ☐ CAPS & FERRULES ETC
- ☐ ADJUSTABLE FOOT & FOOTCAPS
- ☐ UPHOLSTERY CONDITION
- ☐ NUTS, BOLTS & FASTENINGS TIGHT & GOOD CONDITION
- ☐ GAS STRUTS (if applicable)
- ☐ BACKREST & FOOTREST SPRINGS (if applicable)
- ☐ BACKREST & FOOTREST OPERATION (sections hold with no slip)
- ☐ PEDAL RUBBERS
- ☐ STARLOCKS TIGHT & GOOD CONDITION
- ☐ NYLON BUSHES (Y/N)
- ☐ IF NO CHECK FRAME FREE AND NOT AT RISK OF SEIZING
- ☐ OIL WHEEL PEDAL SYSTEM
- ☐ OIL HINGES
- ☐ OIL FRAME BEARING POINTS
- ☐ OIL PUMP/MOTOR FITTING POINTS
- ☐ FRAME CHECK (welds & overall condition)
- ☐ MAINS CABLE & PLUG CONDITION (if applicable)
- ☐ HAND/FOOT SWITCH CONDITION (if applicable)
- ☐ FUNCTION TEST OF PUMP/MOTOR
- ☐ AGE AND LIFE OF MOTOR IF KNOWN (use manufacturers guideline chart)
- ☐ WEIGHT TEST
- ☐ SERVICE STICKER FITTED

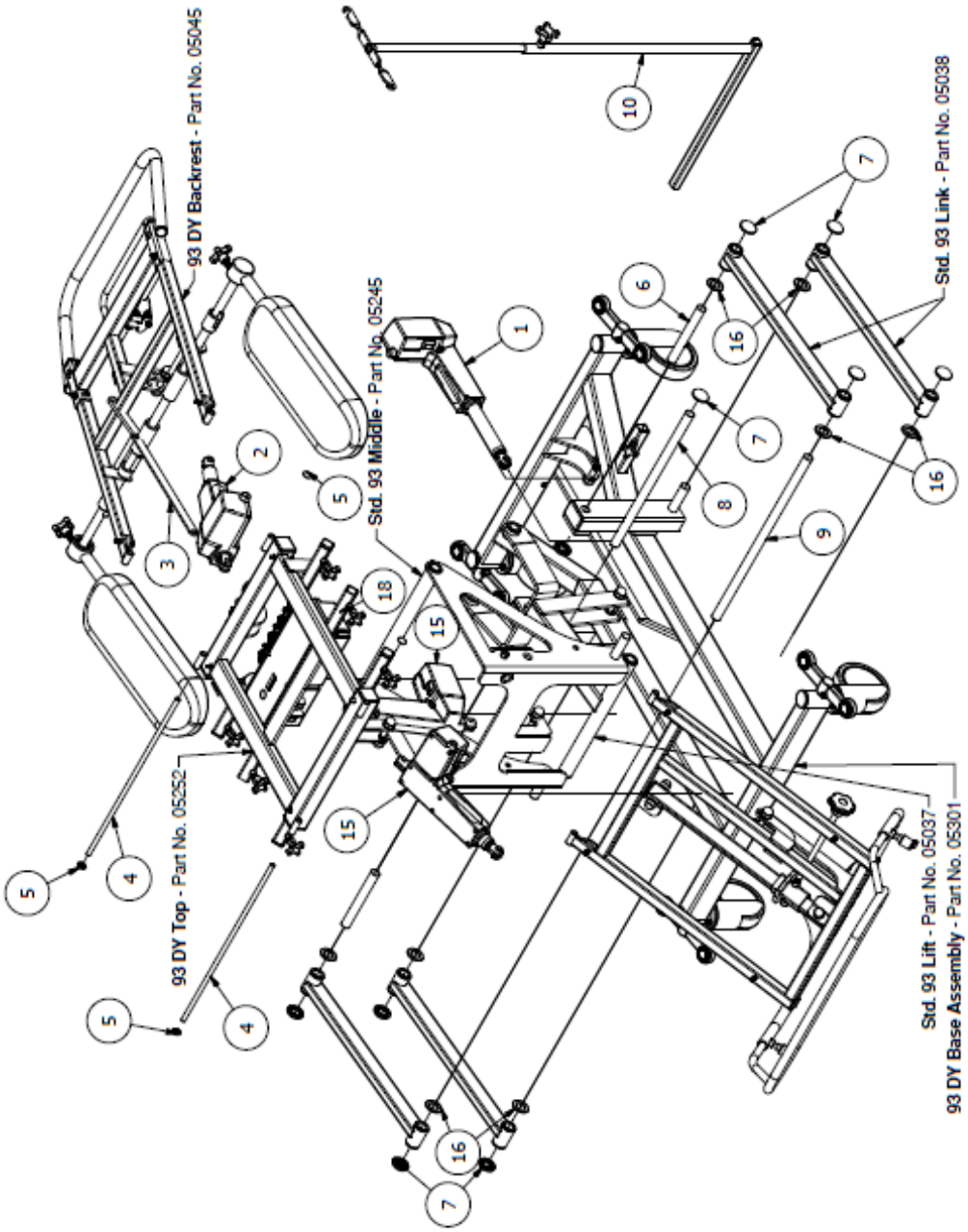
4. Troubleshooting

In the unlikely event of the chair failing to operate and having carried out the normal practical fault finding steps below then please contact our Customer Service Team on +44 (0)1449 767887 or email customerservice@plinth2000.com. **Please have the serial number to hand before making contact so we can help you more efficiently.**

Fault	Possible Cause	Remedy
Chair is unstable	Uneven floor	Move chair to flat floor
	Damage to castor	Replace damaged castor
	Damage to castor locking mechanism	Contact a Plinth engineer to check mechanism
All motors will not work	Power disconnected	Connect power supply
	Fuse Blown	Replace fuse in plug
	Hand/ Footswitch disconnected	Check the switch is fully connected to the motor
One motor will not work but others working	Lead from motor/control box not connected	Check and connect all leads
	Fault with switch	Replace Switch
	Fault with control box	Replace control box
	Fault with motor	Replace motor
Motor sinks	Switch permanently operated	Unplug and re-connect switch
	Motor fault	Replace motor
Arm rests or leg rest slip	Locking thumbwheels not correctly tightened	Correctly tighten locking thumbwheels
	Thumbwheels damaged from over tightening	Replace thumbwheels

5. Parts Lists and Diagrams

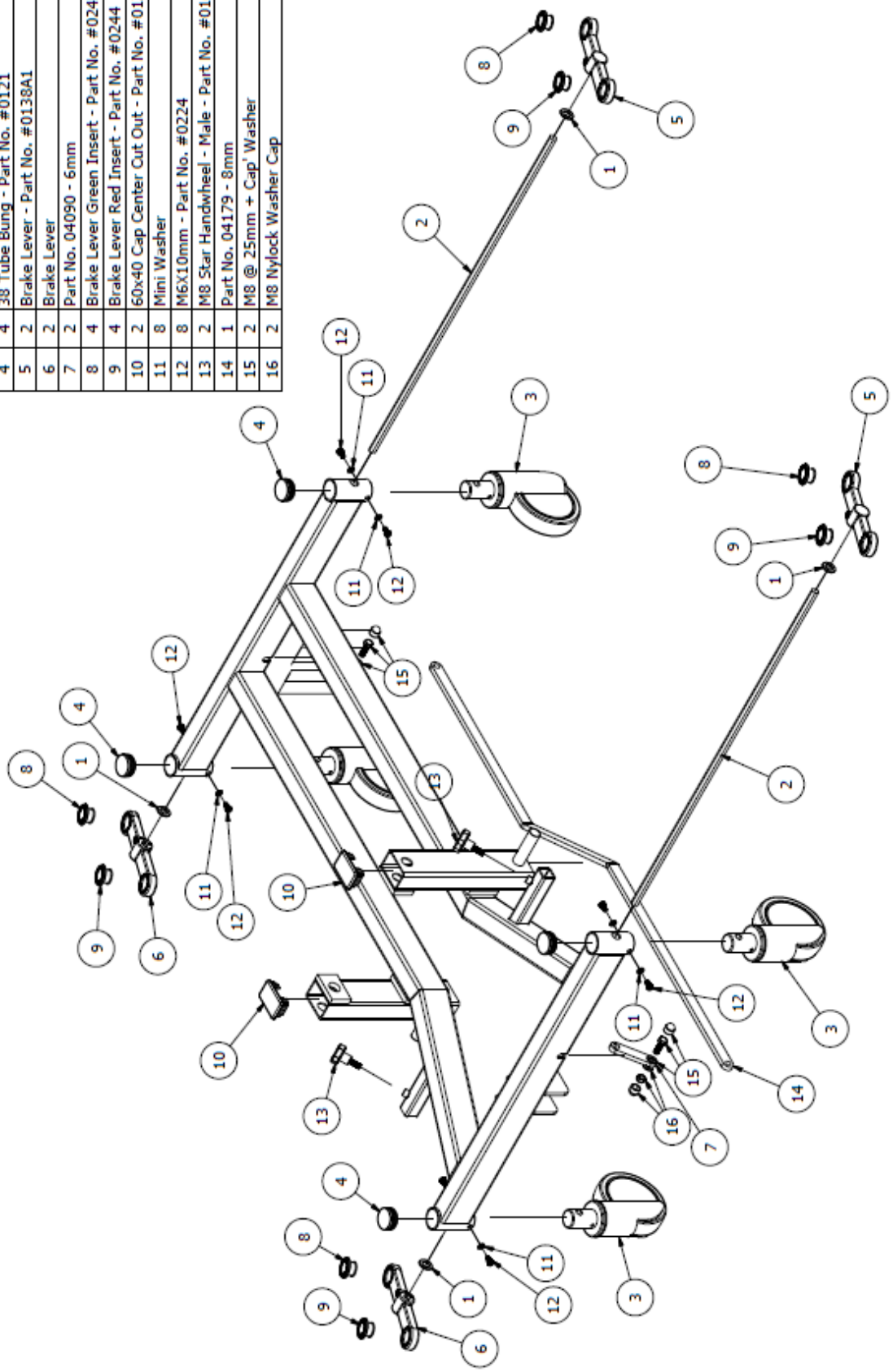
93 DY Backrest - Part No. 05045



PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	Linak LA31 - 200mm Stroke
2	1	Linak LA31 - Turned - 150mm Stroke
3	1	Part No. 04032 - 4mm
4	2	9.5mm Bright Round - 475mm - Part No. 01062
5	4	9.5mm Dome Cap Star Lock - Part No. #0102
6	2	20mm Bright Round - 160mm - Part No. 01170
7	12	20mm Dome Cap Star Lock - Part No. #0116
8	1	20mm Bright Round - 400mm - Part No. 01161
9	1	20mm Bright Round - 490mm - Part No. 01158
10	1	Part No. 05283 - 93 D1 IV Pole
15	2	Linak LA31 - 80mm Stroke
16	8	Form B 20mm Washer - Part No. #0146
18	1	CB16
37	1	Part No. 05302 - 93 Dialysis Foot Frame

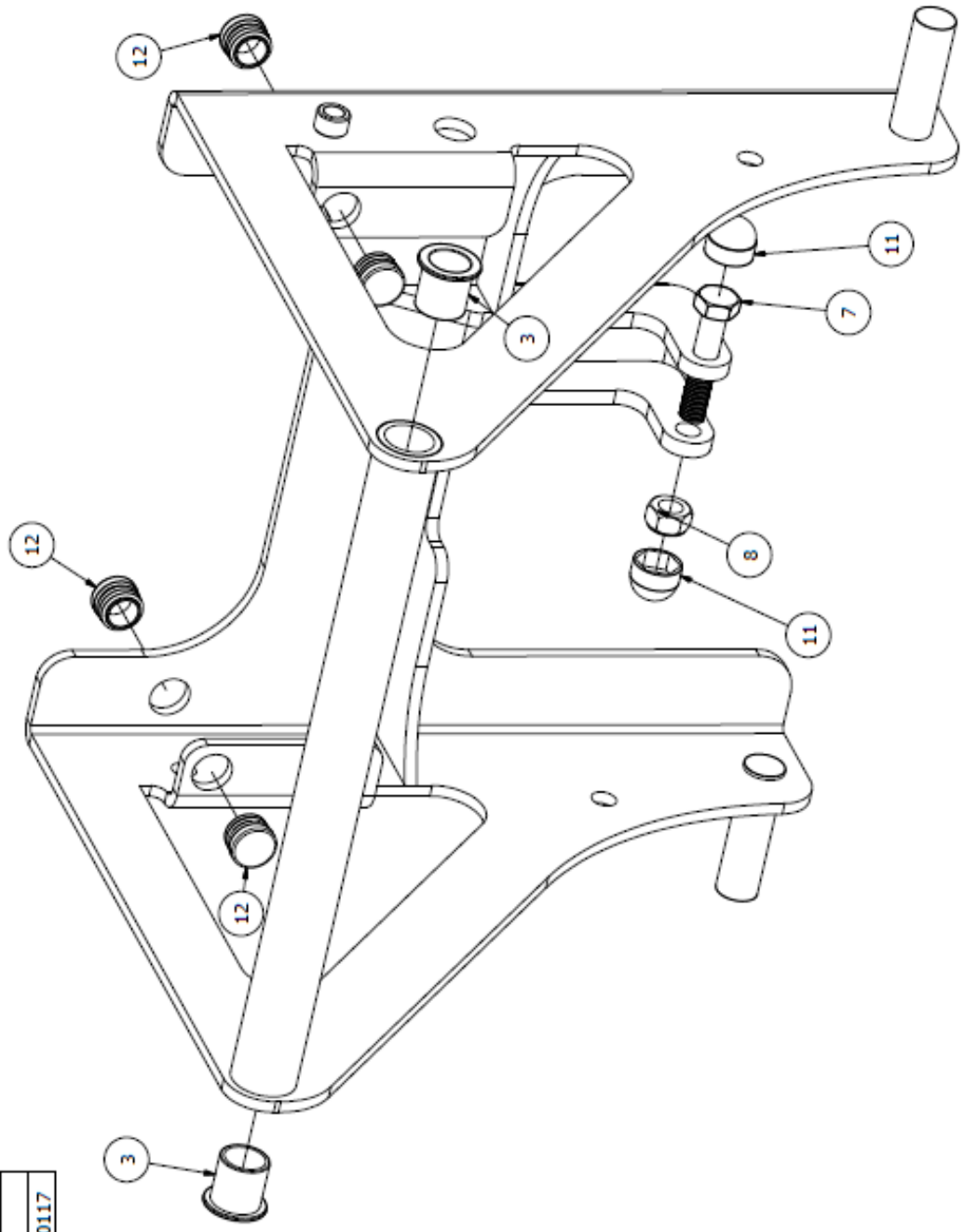
93 DY Base Assembly - Part No. 05301

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	M12 Form B Washer - Part No. #0145
2	2	11mm Hex Bar @ 750mm - Part No. 01227
3	4	2044 XSX 125 R36-32S 30
4	4	38 Tube Bung - Part No. #0121
5	2	Brake Lever - Part No. #0138A1
6	2	Brake Lever
7	2	Part No. 04090 - 6mm
8	4	Brake Lever Green Insert - Part No. #0245
9	4	Brake Lever Red Insert - Part No. #0244
10	2	60x40 Cap Center Cut Out - Part No. #0127A
11	8	Mini Washer
12	8	M6X10mm - Part No. #0224
13	2	M8 Star Handwheel - Male - Part No. #0162
14	1	Part No. 04179 - 8mm
15	2	M8 @ 25mm + Cap' Washer
16	2	M8 Nylock Washer Cap



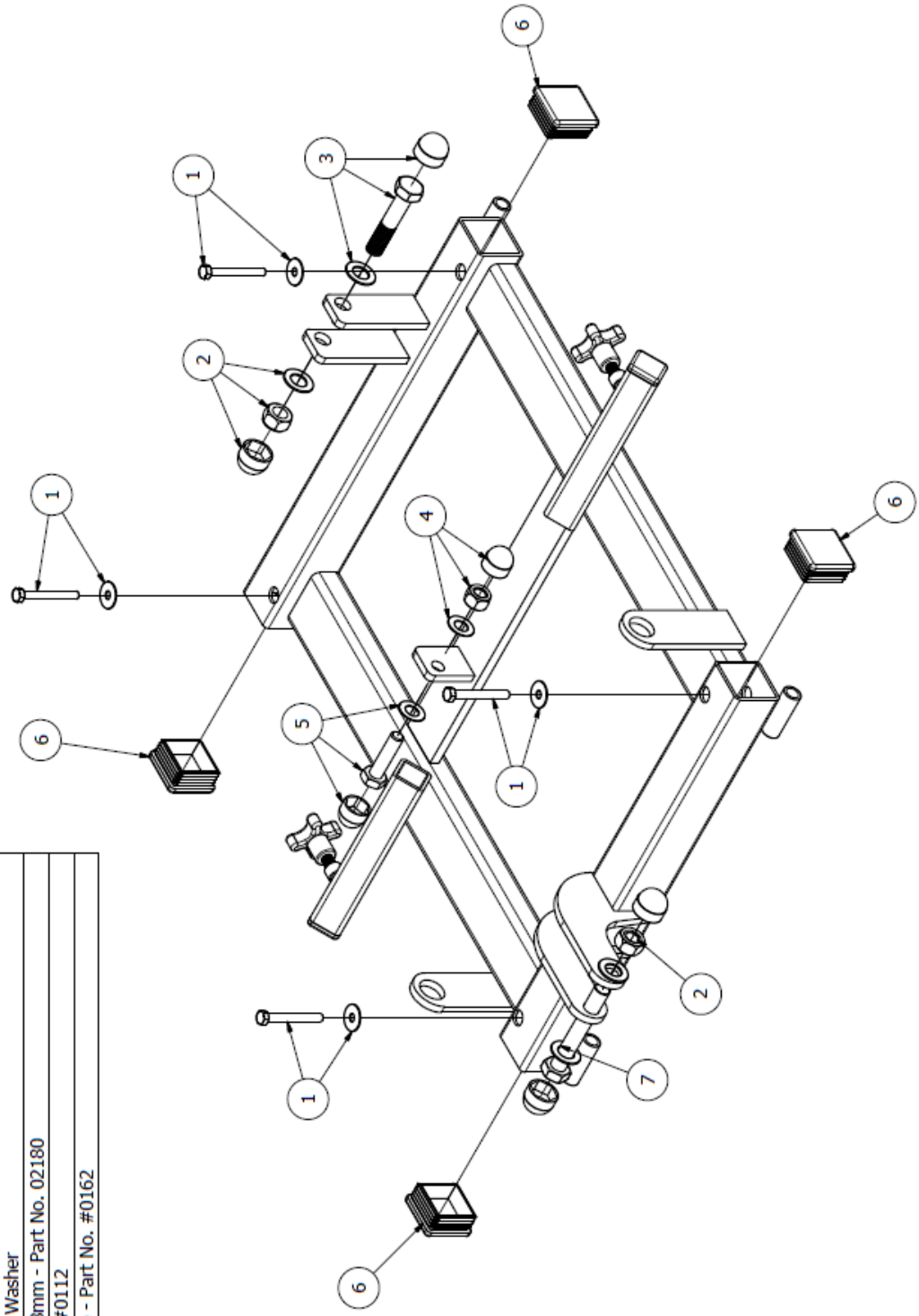
Std. 93 Middle - Part No. 05245

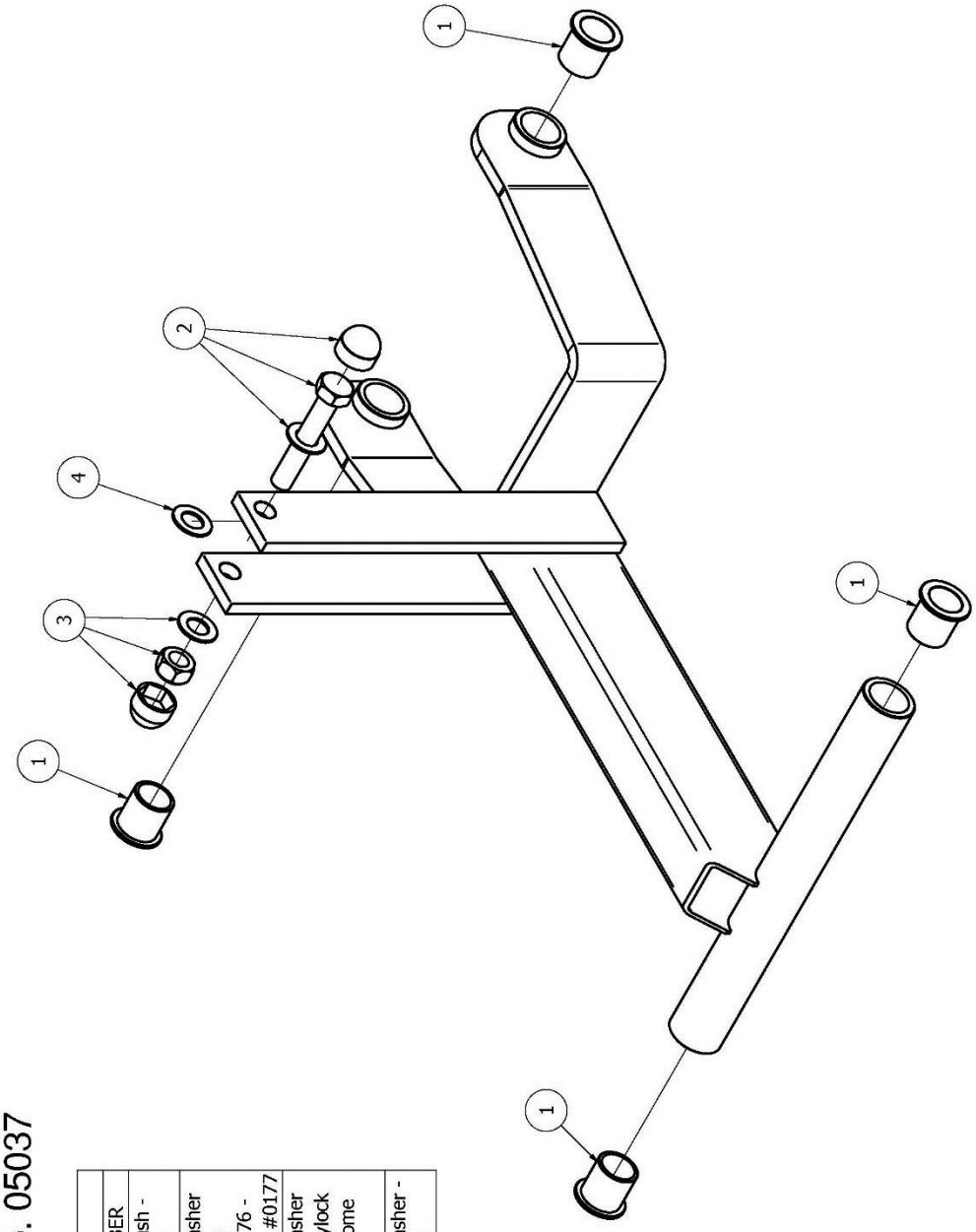
PARTS LIST		
ITEM	QTY	PART NUMBER
3	2	20mm Nylon Bush - Part No. #0182
7	1	M12 Bolt @ 60mm
8	1	M12 Nylock - Part No. #0178
11	2	M12 Cap
12	4	22.22x3 Tube Bung - Part No. #0117



93 DY Top - Part No. 05252

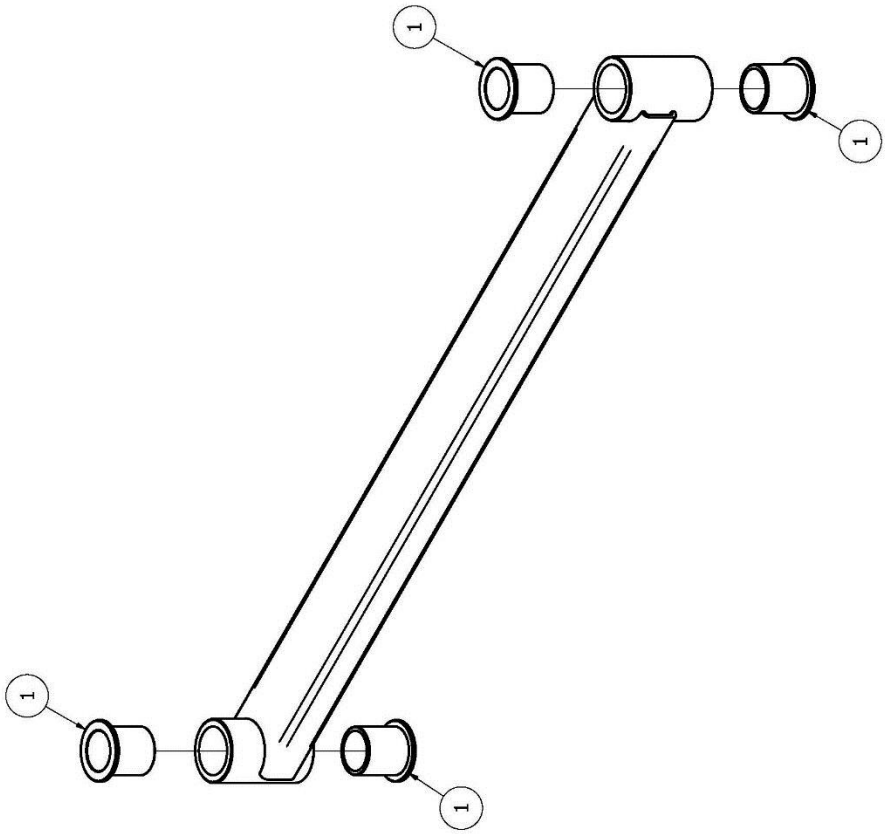
PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	M6 @ 50mm #0155 & Repair Washer #0184
2	3	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
3	2	M12 Form B Washer #0145 - M12 Bolt @ 60mm #0175 - M12 Dome Cap #0177
4	1	M10 Form B Washer #0144 - M10 Nylock #0171 - M10 Dome Cap #0170
5	1	M10 Form B Washer #0144 - M10 Bolt @ 40mm #0167 - M10 Dome Cap #0170
6	4	40x40 Cap - Part No. #0123
7	1	M12 Bolt @ 80mm + Cap' Washer
8	1	16x2 - Aluminium Tube - 8mm - Part No. 02180
9	6	25.4x25.4 Cap - Part No. #0112
10	6	M8 Star Handwheel - Male - Part No. #0162





Std. 93 Lift - Part No. 05037

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	20mm Nylon Bush - Part No. #0182
2	1	M12 Form B Washer #0145 - M12 @ 75mm Bolt #0176 - M12 Dome Cap #0177
3	1	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
4	1	M12 Form B Washer - Part No. #0145



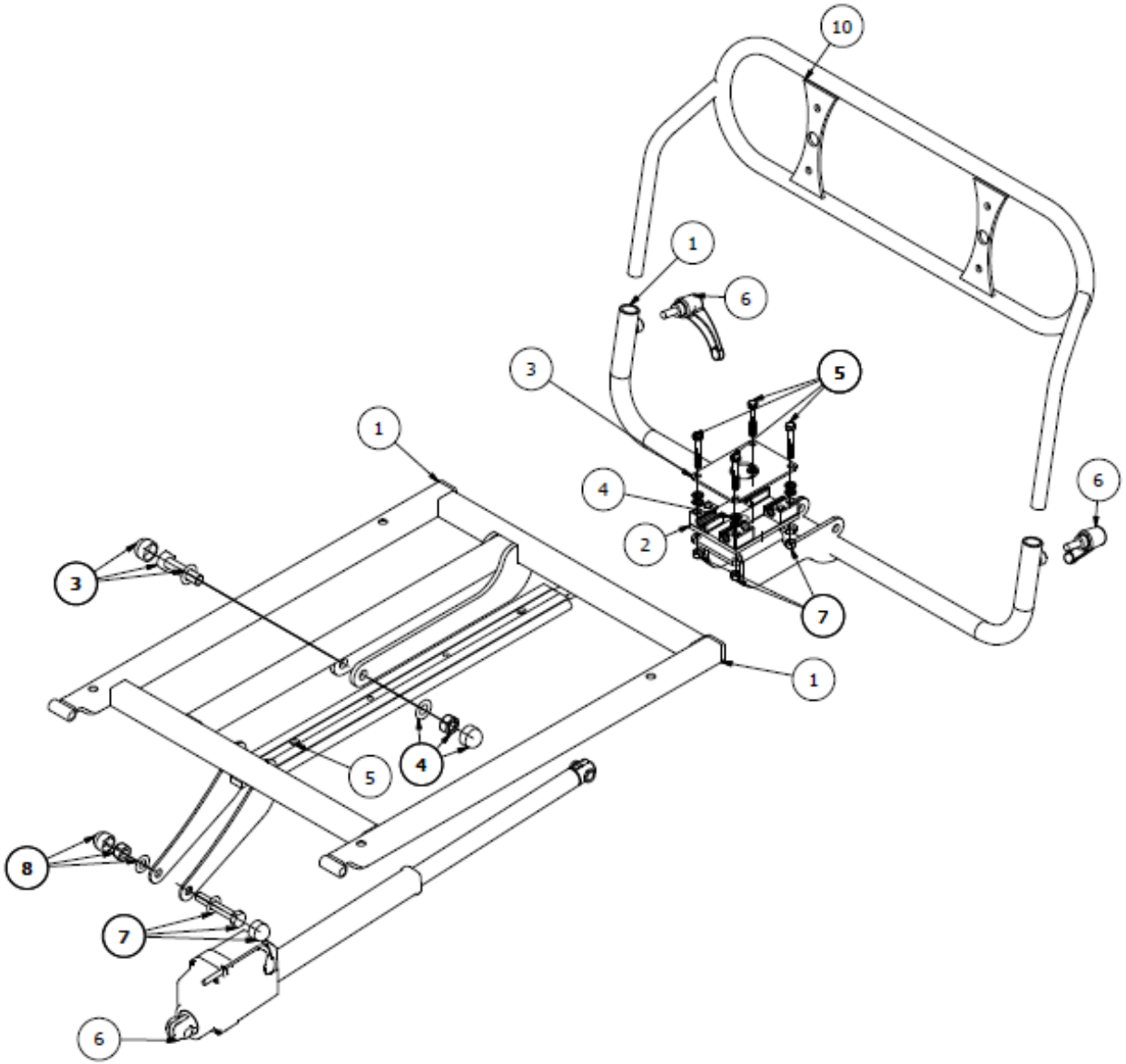
Std. 93 Link - Part No. 05038

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	20mm Nylon Bush - Part No. #0182

93 DY Electric Footboard - Part No. 05325A

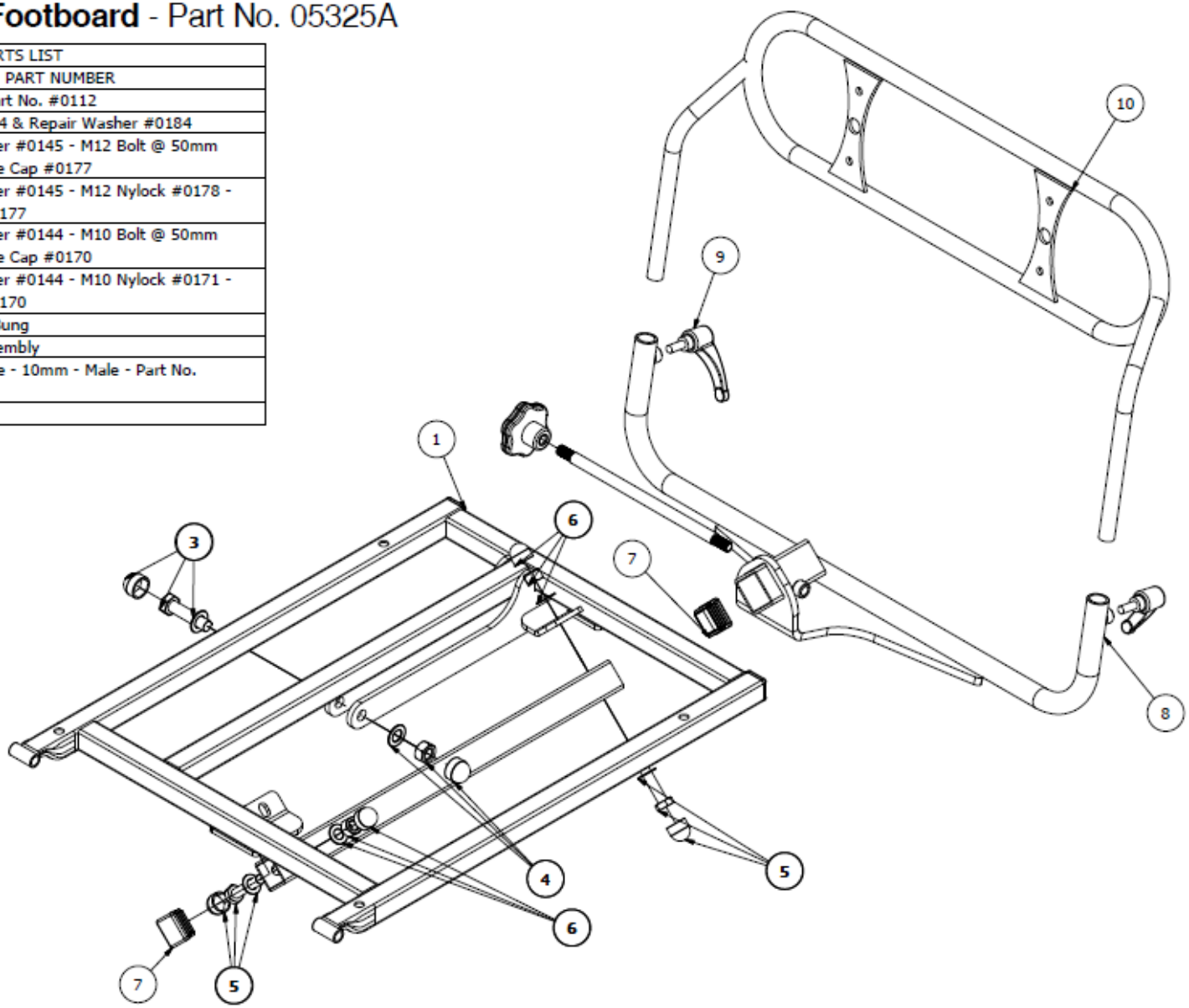
PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	25.4x25.4 Cap - Part No. #0112
2	4	M6 @ 40mm #0154 & Repair Washer #0184
3	1	M12 Form B Washer #0145 - M12 Bolt @ 50mm #0200 - M12 Dome Cap #0177
4	1	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
5	1	WS_10_40__200_2
6	1	Linak LA23 - 390mm Install - 150mm Stroke - Body
7	1	M10 @ 60 + Cap' Washer
8	1	M10 Form B Washer #0144 - M10 Nylock #0171 - M10 Dome Cap #0170
9	1	Seperate Motor Back Assembly
10	1	Tubular Assembly

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	Round Tube Reciever
2	1	WW_10_40_10_SL_1
3	1	Part No. 04200 - 3mm
4	8	Mini Washer
5	4	M6 Bolt @ 40mm - Part No. #0154.ipt
6	2	Clip Release Handle - 10mm - Male - Part No. #0203_MIR
7	4	M6 Nylock - Part No. #0156



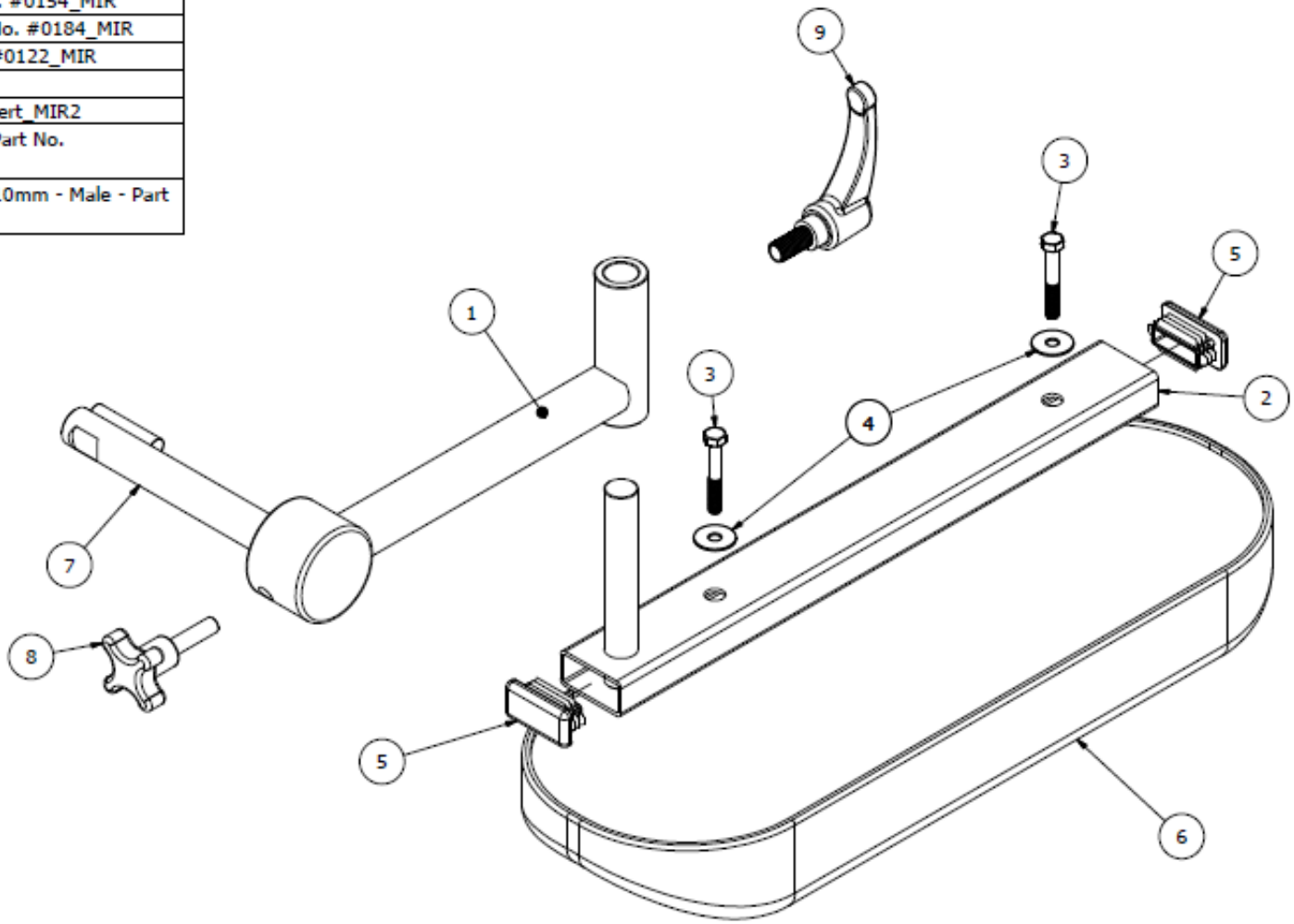
93 DY Manual Footboard - Part No. 05325A

PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	25.4x25.4 Cap - Part No. #0112
2	4	M6 @ 40mm #0154 & Repair Washer #0184
3	1	M12 Form B Washer #0145 - M12 Bolt @ 50mm #0200 - M12 Dome Cap #0177
4	1	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
5	2	M10 Form B Washer #0144 - M10 Bolt @ 50mm #0168 - M10 Dome Cap #0170
6	2	M10 Form B Washer #0144 - M10 Nylock #0171 - M10 Dome Cap #0170
7	2	31.75x31.75 SHS Bung
8	1	Seperate Back Assembly
9	2	Clip Release Handle - 10mm - Male - Part No. #0203_MIR
10	1	Tubular Assembly



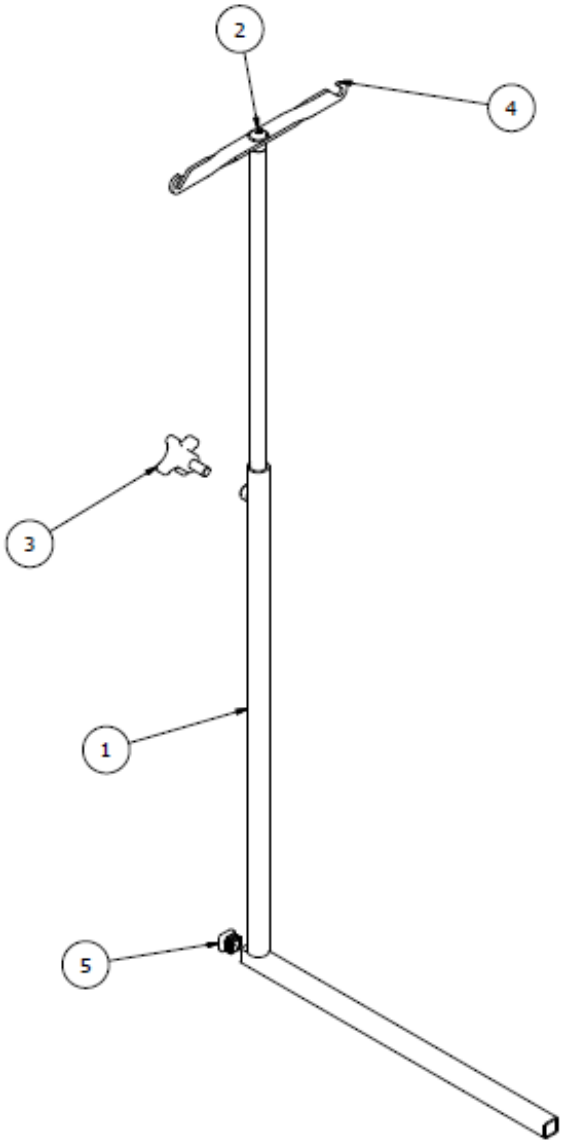
93 DY Lateral SLARMS

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	25x2 ERW Tube - 180mm_MIR1
2	1	40x20x2 - ERW - 355mm - Part No. 00557_MIR
3	2	M6 @ 40mm - Part No. #0154_MIR
4	2	Repair Washer - Part No. #0184_MIR
5	2	40x20 Cap - Part No. #0122_MIR
6	1	Arm Pad_MIR
7	1	Rotational Pin Lock insert_MIR2
8	1	M8 Star Handwheel - Part No. PROTOTYPE_MIR2
9	1	Clip Release Handle - 10mm - Male - Part No. #0203_MIR1



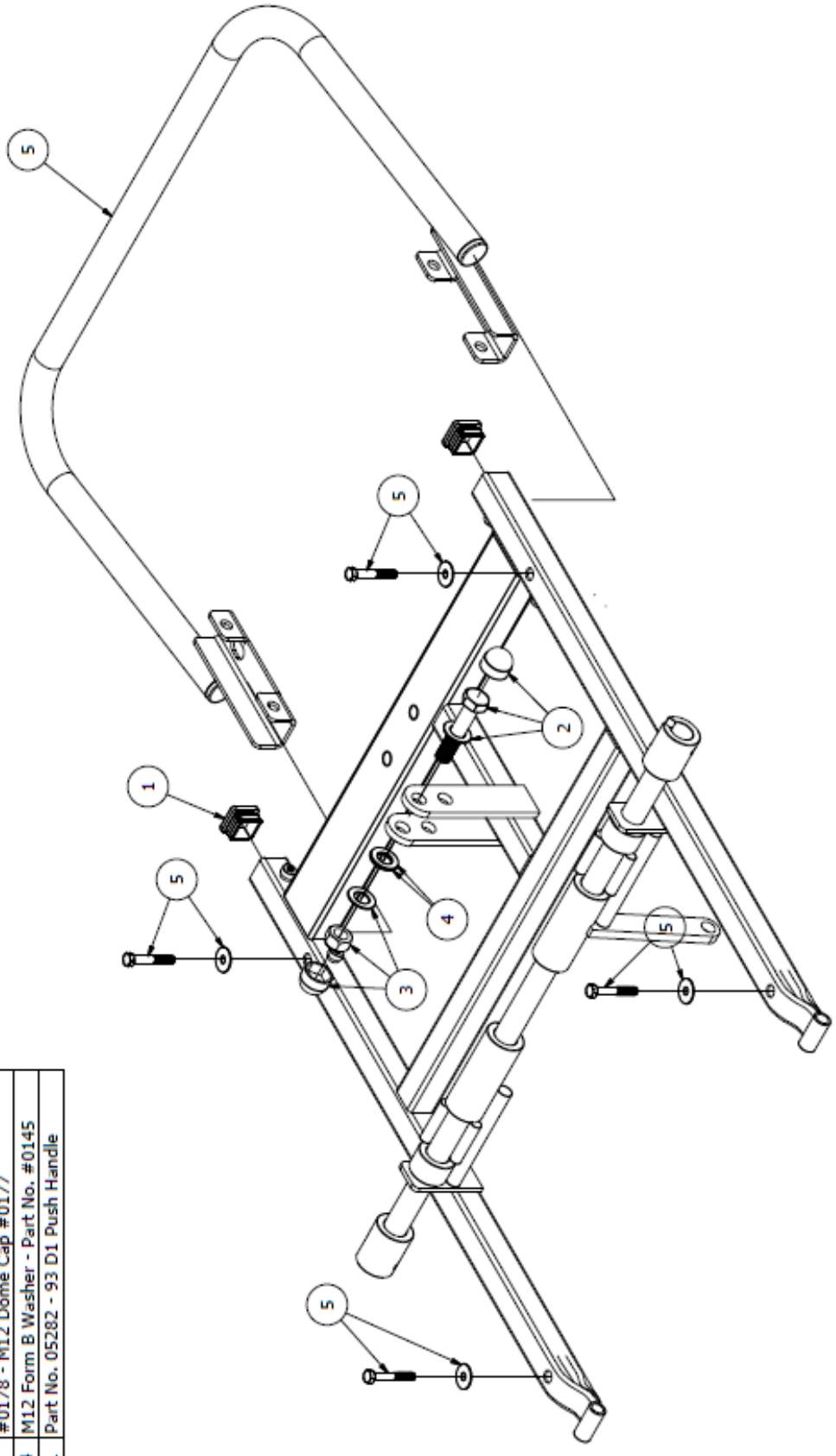
93 DY IV Pole - Part No. 05283

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	22.23x2.64 - CDS - 600mm - Part No. 02058
2	1	M10x35mm Dome Head - Part No. #0233
3	1	M10 Star Handwheel
4	1	Part No. 04071 - 4mm - Twist
5	1	19.05x19.05 SHS Cap - Part No. #0115



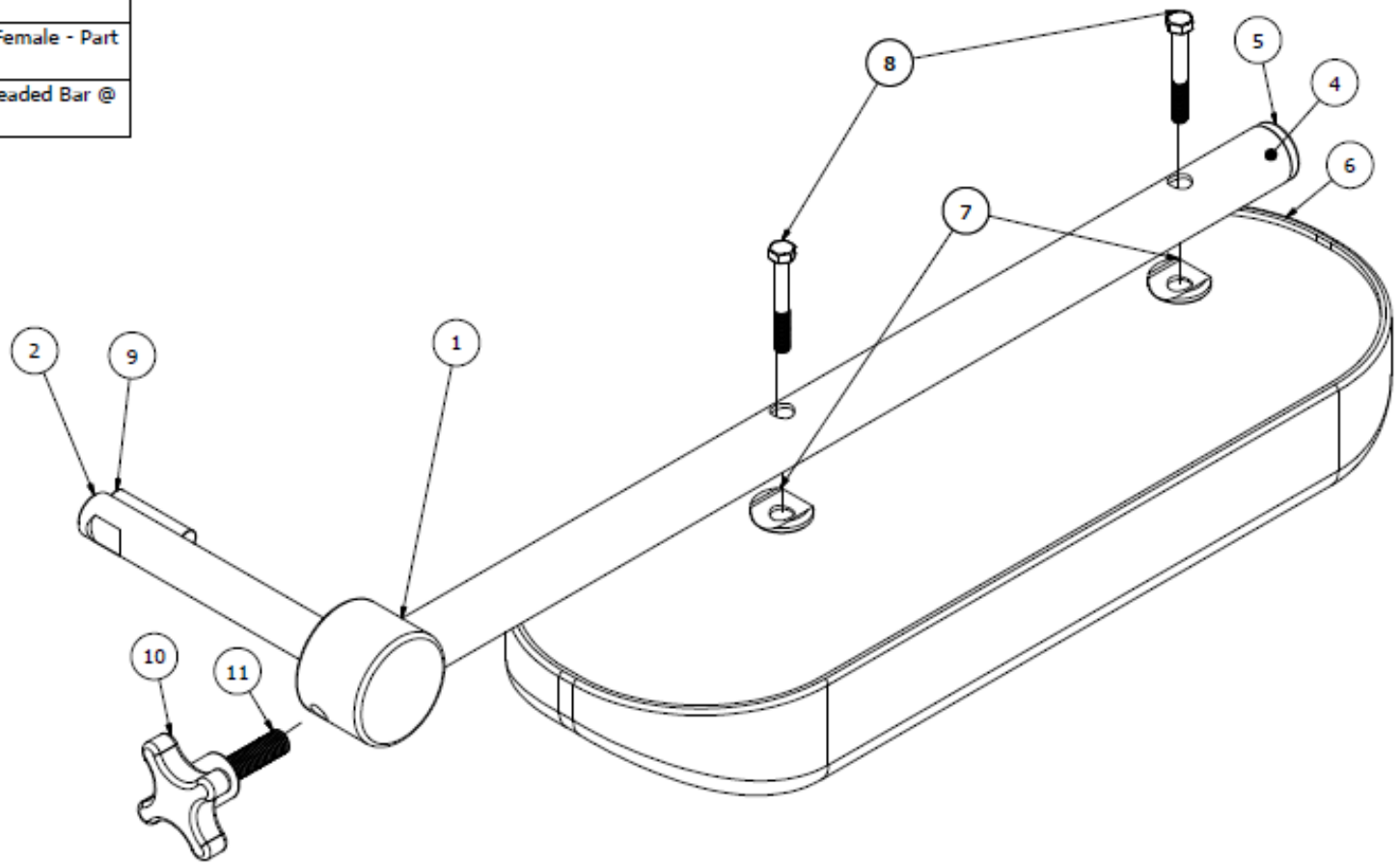
93 DY Backrest - Part No. 05045

PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	25.4x25.4 Cap - Part No. #0112
2	3	M12 Form B Washer #0145 - M12 Bolt @ 60mm #0175 - M12 Dome Cap #0177
3	3	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
4	4	M12 Form B Washer - Part No. #0145
5	1	Part No. 05282 - 93 D1 Push Handle



93 DY Slarm - Part No. 05355

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	04764B
2	1	04763A
4	1	25.4x2mm Round Stainless
5	1	25x2.5 Tube Bung
6	1	Arm Pad
7	2	Saddle Washer - Part No. #0274
8	2	M6 @ 45mm - Part No. #0267
9	1	9.5mm Bright Round - 40mm - Part No. 01052
10	1	M10 Star Handwheel - Female - Part No. #0172
11	1	Stainless Steel M10 Threaded Bar @ 50mm - Part No. 04765



6. Guarantee and Service (UK only)

Plinth 2000 Ltd offer a 5 year parts guarantee on all Premium Range products delivered from January 2013 and a lifetime frame guarantee. The only exclusion to this guarantee is for negligent damage or damage to upholstery coverings. This guarantee does not require registration of the product as we can trace it from its serial number, however in the event of the serial number being removed, missing or unreadable then this may void the guarantee. These terms do not affect your statutory rights.

In addition to the above Plinth 2000 Ltd can offer both extended warranties and service contracts. For further information about either of these please contact:

Customer Service
Plinth 2000 Ltd
Wetheringsett Manor
Wetheringsett
Stowmarket
Suffolk
IP14 5PP
Tel: 01449 767887
Mail: customerservice@plinth2000.com

In the event of returning a product or part to us then please follow the instructions for cleaning under section 5 before enclosing it in suitable packaging and returning it to the above address. In addition please ensure there is a statement confirming that it has been decontaminated and what the fault is along with relevant contact details.

Worldwide

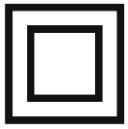
Please contact the distributor you purchased the chair from for service and support in your country. If you are unable to do so then please contact us in the UK and we will refer you to our local representative.

7. Technical Specifications

	93DY	93DY Manual Footboard
Head Length (cm)	80	80
Seat Length (cm)	49	49
Foot Length (cm)	62	62
Width (cm)	63	63
Overall Length (cm)	196	196
Height Range (cm)	50-100	50-100
Max Working Load	250kg	250kg
Control	Hand switch	Hand switch
Electrical Data 220/240v 50/60Hz		
Motor(s)	Linak LA23 x 1	
	Linak LA31 x 4	Linak LA31 x 4
Control Box	Linak CB16	Linak CB16
Current	1.5A	1.5A
Power	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1
Internal Fuse	1.5A x 1	1.5A x 1
System Voltage	24v	24v
IP Rating	IPX4	IPX4
Electrical Data 110/120v 50/60Hz		
Motor(s)	Linak LA23 x 1	
	Linak LA31 x 4	Linak LA31 x 4
Control Box	Linak CB16	Linak CB16
Current	2.7A	2.7A
Power	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1
Internal Fuse	3.0A x 1	3.0A x 1
System Voltage	24v	24v
IP Rating	IPX4	IPX4

IEC 601-1 Electrical Safety Classification

All models are double insulated Type B equipment and marked as such.



Double Insulated

Type B Equipment

8. Revisions to Manual

Pages	Issue No	Name	Date
All	Manual - 01	Martin Lankester	07.03.16
13	Manual – 02	Martin Lankester	11.08.16
22	Manual - 03	Mark leggett	23.01.18

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Plinth 2000 Ltd is an ISO Audited company to ISO9001:2008

Our products are CE marked in conformity with the EC Directive MDD 93/42/EEC