Plinth | 2000

Phlebotomy Chair

Models: 93B1, 93B2, 93B3 & 93B4

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.

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Service Check Sheet

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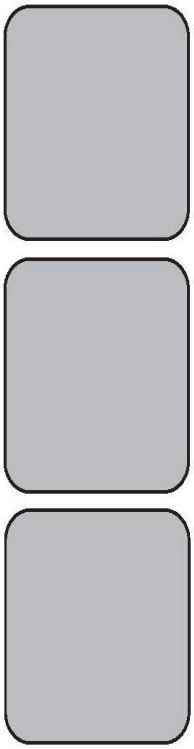
- ☐ CORRECT COUCH TO BE SERVICED
- ☐ IDENTIFY SERIAL NUMBER
- ☐ IDENTIFY PUMP/MOTOR TYPE
- ☐ ANY SPECIFIC FAULTS ADVISED BY CUSTOMER
- ☐ CAPS & FERRULES ETC
- ☐ ADJUSTABLE FOOT & FOOTCAPS
- ☐ UPHOLSTERY CONDITION
- ☐ NUTS, BOLTS & FASTENINGS TIGHT & GOOD CONDITION
- ☐ GAS STRUTS (if applicable)
- ☐ BACKREST & 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
	Adjustable foot	Check presence, condition and adjustment of foot
All motors will not work (93B1 the only motor 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 (93B2, 93B3 & 93B4)	Lead from height motor/control box not connected to slave motor	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
Backrest or footrest will not work (manual versions)	Gas spring incorrectly adjusted (not being triggered)	Rotate gas spring until the pin is just in contact with the lever (2-3mm play required)
	Gas spring faulty	Replace gas spring
Backrest or footrest sinks under load (manual versions)	Gas spring incorrectly adjusted (permanently triggered)	Rotate gas spring until the pin is just in contact with the lever (2-3mm play required)
Armrests slip	Locking thumbwheels not correctly tightened	Correctly tighten locking thumbwheels
	Thumbwheels damaged from over tightening	Replace thumbwheels

5. Parts Lists and Diagrams

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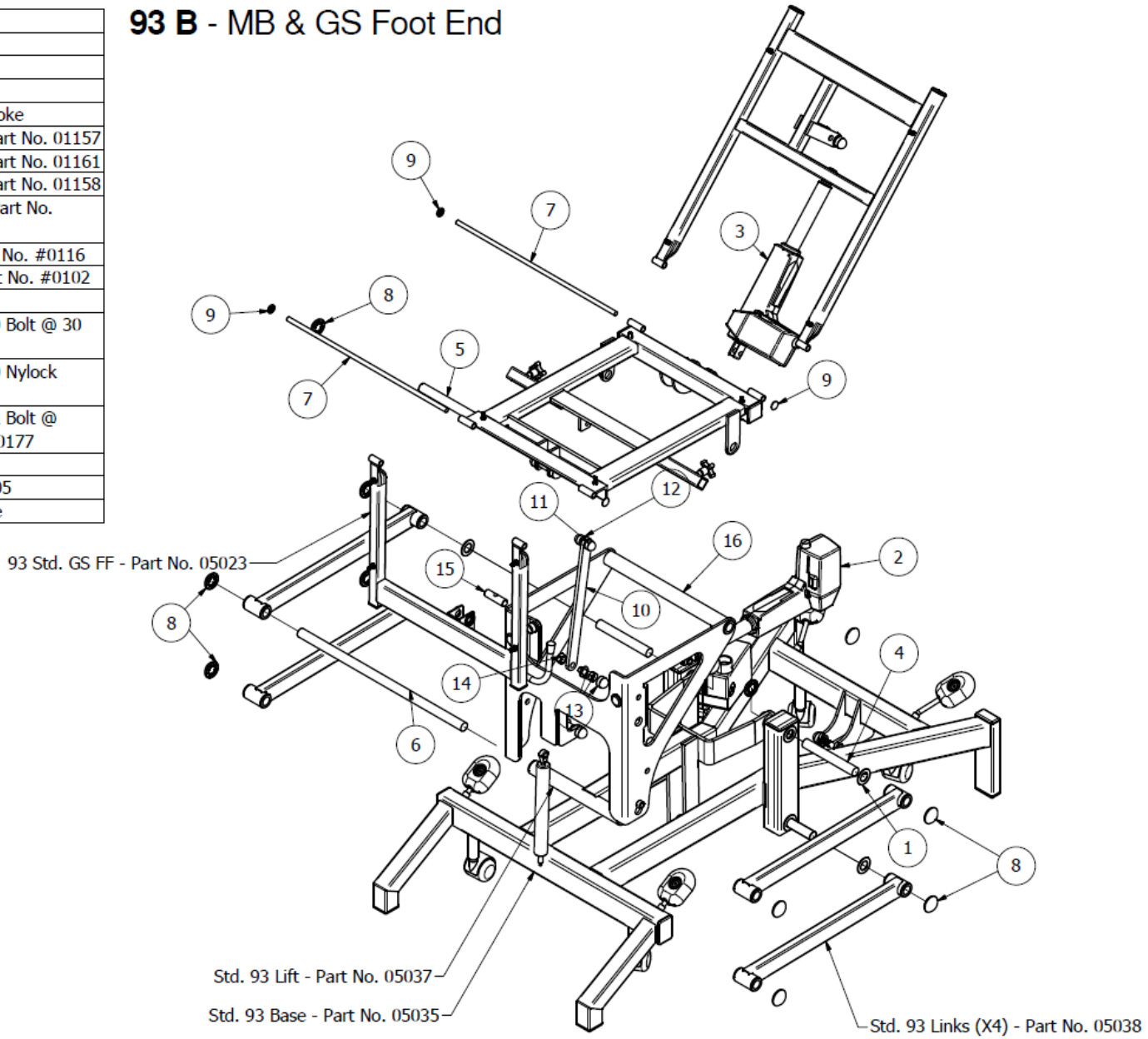
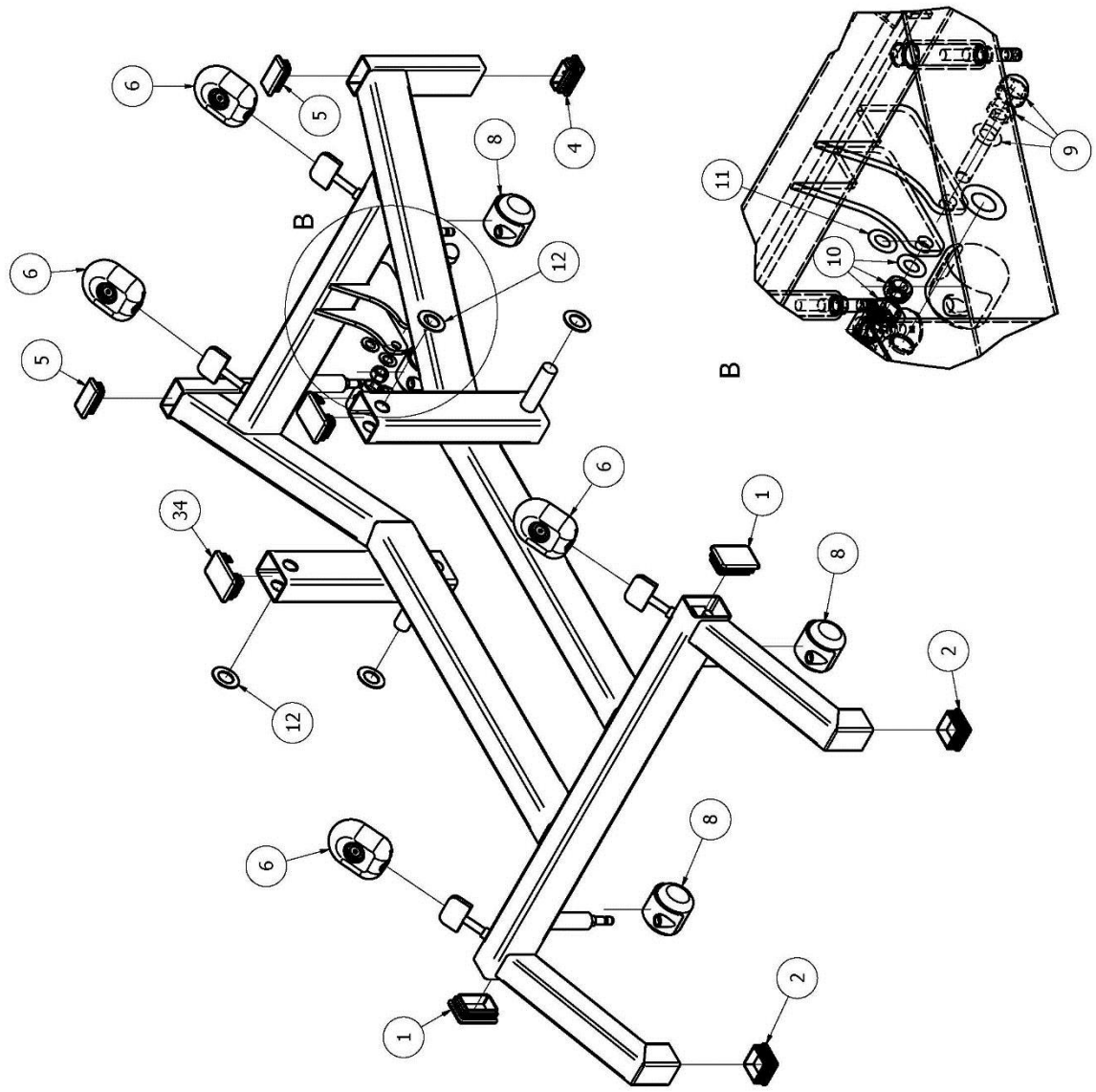
93 B - Phlebotomy Chair

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	Part No. 05035 - 93 Base
2	1	Linak LA31 - 200mm Stroke
3	2	Linak LA31 - Turned - 150mm Stroke
4	2	20mm Bright Round - 150mm - Part No. 01157
5	1	20mm Bright Round - 400mm - Part No. 01161
6	1	20mm Bright Round - 490mm - Part No. 01158
7	2	9.5mm Bright Round - 475mm - Part No. 01062
8	12	20mm Dome Cap Star Lock - Part No. #0116
9	4	9.5mm Dome Cap Star Lock - Part No. #0102
10	1	Part No. 04079 - 8mm
11	1	M10 Form B Washer #0144 - M10 Bolt @ 30 & M10 Dome Cap #0170
12	1	M10 Form B Washer #0144 - M10 Nylock #0171 - M10 Dome Cap #0170
13	1	M12 Form B Washer #0145 - M12 Bolt @ 35mm #0174 - M12 Dome Cap #0177
14	1	M12 Nylock - Part No. #0178
15	2	Gas Strut Trunnion - Part No 04705
16	1	Part No. 05245 - Folded 93 Middle

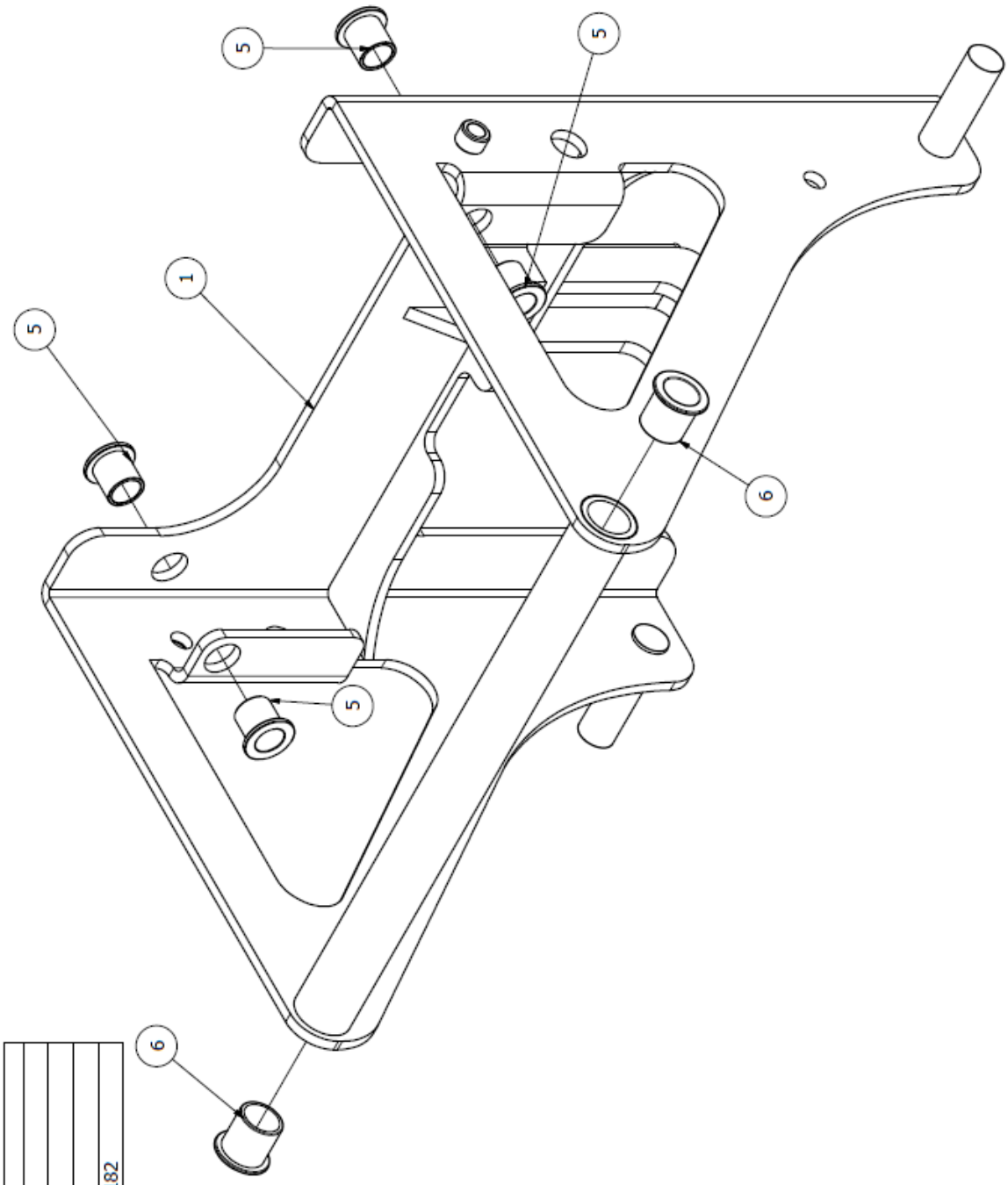
93 B - MB & GS Foot End



93 Base - Part No. 05035



PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	60x40 Cap - Part No. #0127
2	2	40x40 Cap - Part No. #0123
3	1	50.8x25.4 Foot Adjuster - Part No. #0125
4	1	50.8x25.4 Cap Thick - Part No. #0124
5	2	50x25 Cap - Part No. #0126
6	4	Paddle Cover - Part No. #0180
7	4	Wheel Stem - Part No. #0189
8	4	Std. Wheel - Part No. #0190
9	1	M12 Form B Washer #0145 - M12 @ 75mm Bolt #0176 - M12 Dome Cap #0177
10	1	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
11	1	M12 Form B Washer - Part No. #0145
12	4	Form B 20mm Washer - Part No. #0146
34	2	60x40 Cap Center Cut Out - Part No. #0127A

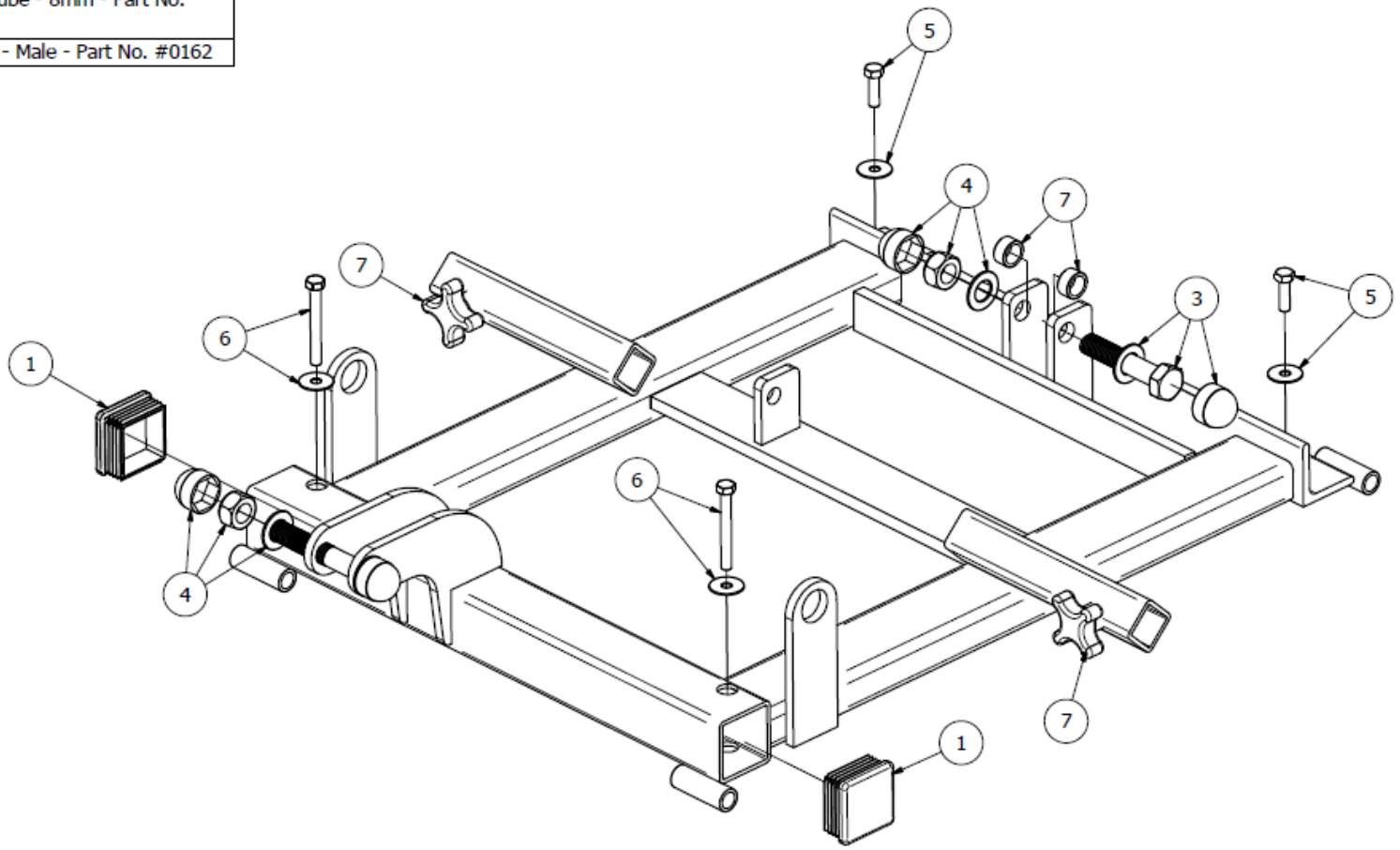


Std. 93 Middle - Part No. 05245

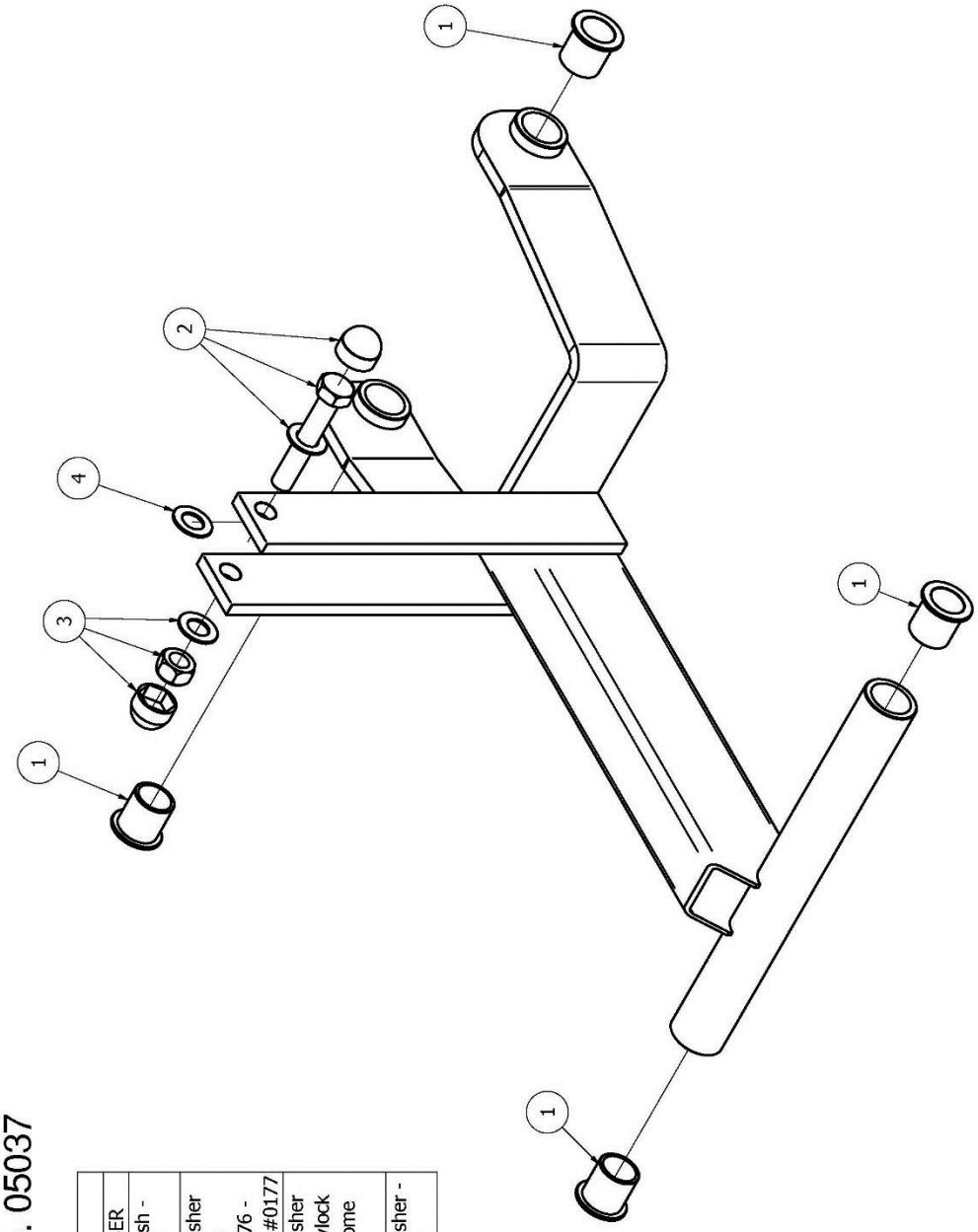
PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	Part No. 04134 - 6mm
5	4	16mm Nylon Bush
6	2	20mm Nylon Bush - Part No. #0182

93 C Top - Part No. 05106

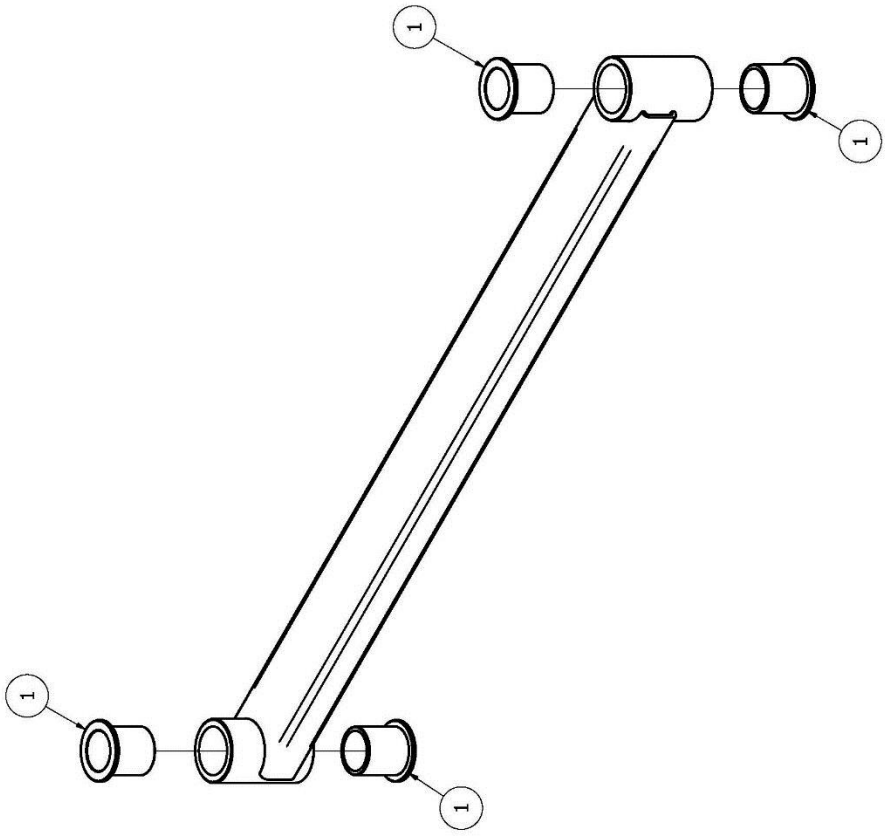
PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	40x40 Cap - Part No. #0123
3	2	M12 Form B Washer #0145 - M12 Bolt @ 60mm #0175 - M12 Dome Cap #0177
4	3	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
5	2	M6 @ 20mm #0153 & Repair Washer #0184
6	2	M6 @ 50mm #0155 & Repair Washer #0184
7	4	16x2 - Aluminium Tube - 8mm - Part No. 02180
7	2	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

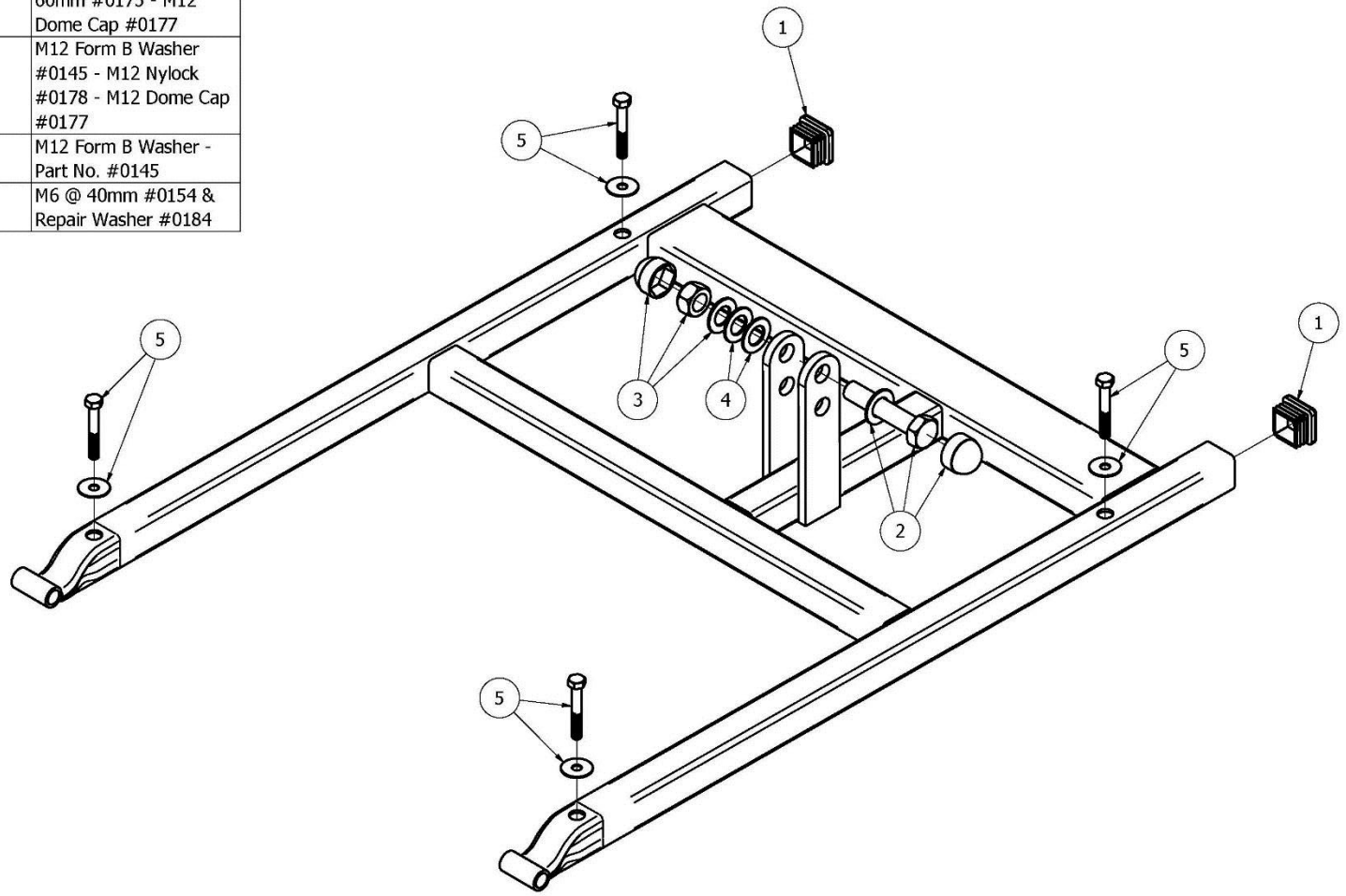


Std. 93 Link - Part No. 05038

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

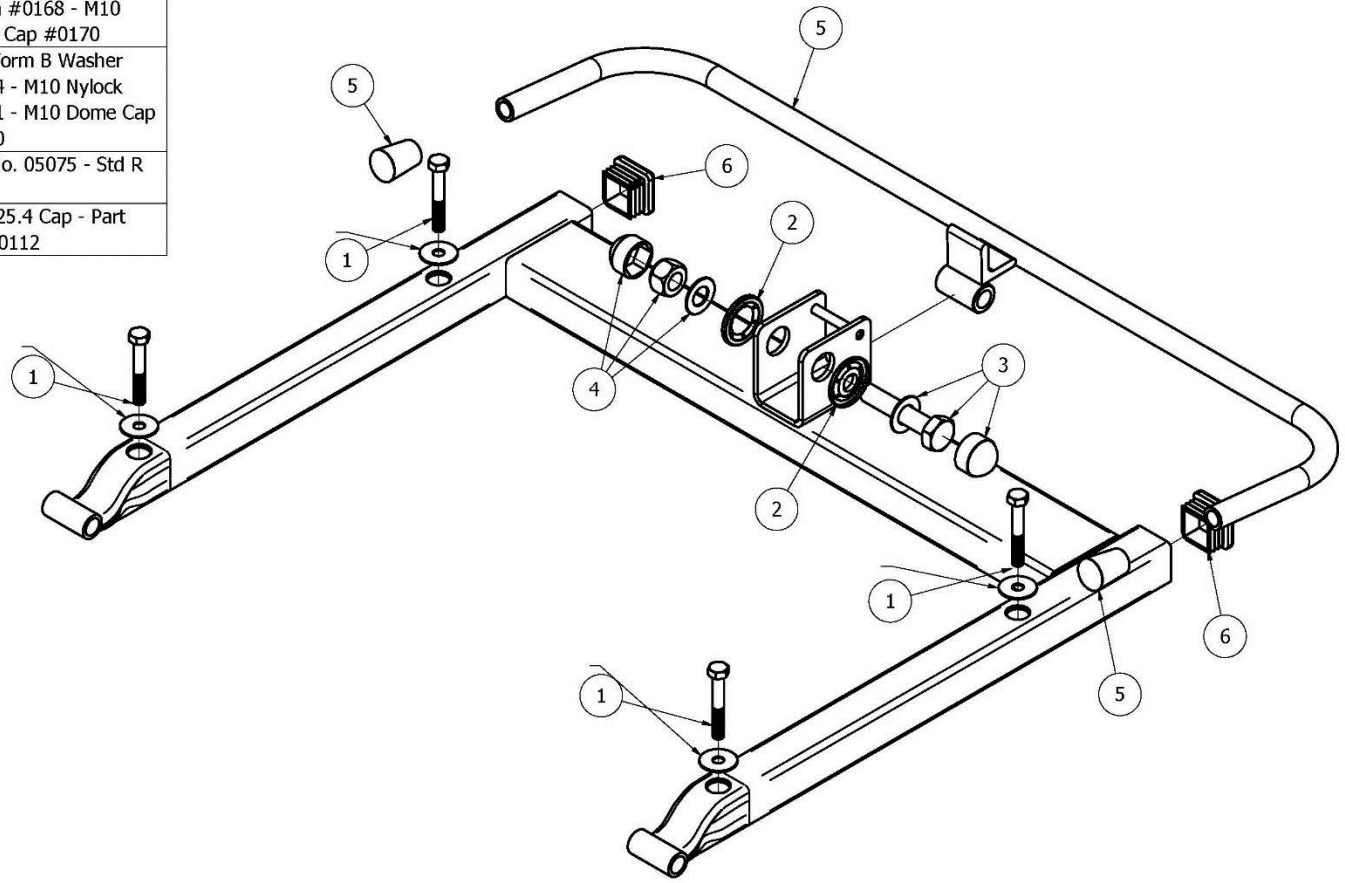
PARTS LIST		
ITEM	QTY	PART NUMBER
1	2	25.4x25.4 Cap - Part No. #0112
2	2	M12 Form B Washer #0145 - M12 Bolt @ 60mm #0175 - M12 Dome Cap #0177
3	2	M12 Form B Washer #0145 - M12 Nylock #0178 - M12 Dome Cap #0177
4	4	M12 Form B Washer - Part No. #0145
5	4	M6 @ 40mm #0154 & Repair Washer #0184

93 MB BF - Part No. 05045



93 Std. GS Foot Frame & R Lever - Part No. 05045

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	M6 @ 40mm #0154 & Repair Washer #0184
2	2	16mm Star Lock - Part No. #0112
3	1	M10 Form B Washer #0144 - M10 Bolt @ 50mm #0168 - M10 Dome Cap #0170
4	1	M10 Form B Washer #0144 - M10 Nylock #0171 - M10 Dome Cap #0170
5	1	Part No. 05075 - Std R Lever
6	2	25.4x25.4 Cap - Part No. #0112



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

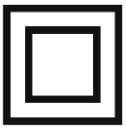
Please contact the distributor you purchased the chair from for service and support in your country. If you are unable to do so then please contact us in the UK and we will refer you to our local representative.

7. Technical Specifications

	93B1	93B2	93B3	93B4
Head Length (cm)	81	81	81	81
Seat Length (cm)	50	50	50	50
Foot Length (cm)	44	44	44	44
Width (cm)	63	63	63	63
Overall Length (cm)	179	179	179	179
Height Range (cm)	53-100	53-100	53-100	53-100
Max Working Load	250kg	250kg	250kg	250kg
Control	Hand switch	Hand switch	Hand switch	Hand switch
Electrical Data 220/240v				
Motor(s)	Linak LA31 x 1	Linak LA31 x 2	Linak LA31 x 3	Linak LA31 x 4
Control Box	Linak CB09	Linak CB09	Linak CB09	Linak CB09
Current	1.5A	1.5A	1.5A	1.5A
Power	360W	360W	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1	5.0A x 1	5.0A x 1
Internal Fuse	1.5A x 1	1.5A x 1	1.5A x 1	1.5A x 1
System Voltage	24v	24v	24v	24v
IP Rating	IPX4	IPX4	IPX4	IPX4
Electrical Data 110/120v				
Motor(s)	Linak LA31 x 1	Linak LA31 x 2	Linak LA31 x 3	Linak LA31 x 4
Control Box	Linak CB09	Linak CB09	Linak CB09	Linak CB09
Current	2.7A	2.7A	2.7A	2.7A
Power	360W	360W	360W	360W
Mains Plug Fuse	5.0A x 1	5.0A x 1	5.0A x 1	5.0A x 1
Internal Fuse	3.0A x 1	3.0A x 1	3.0A x 1	3.0A x 1
System Voltage	24v	24v	24v	24v
IP Rating	IPX4	IPX4	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	Niall Dyer	15.10.12
All	Manual - 02	Niall Dyer	07.10.13
8, 9, 11, 12, 18	Manual – 03	Martin Lankester	11.08.16

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