The information contained in this manual is intended for QUALIFIED TECHNICIANS who have completed a specific TECHNOGYM training course and are authorized to perform machine start-up and adjustment procedures as well as extraordinary maintenance or repairs which require a thorough knowledge of the machine, its operation, its safety devices and working procedures.

CAREFULLY READ THE INFORMATION CONTAINED IN THIS MANUAL BEFORE PERFORMING ANY MAINTENANCE PROCEDURES ON THE MACHINE

DANGEROUS VOLTAGES PRESENT EVEN WHEN THE MACHINE IS TURNED OFF

NOTE
The information contained in this document is subject to change without notice.

Technogym does not guarantee this documentation in any way. Technogym shall not be held responsible for any errors contained in this manual and declines all liability for accidents or damages resulting from the supply, characteristics or use of this manual.

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The Technogym® trademark is property of Technogym S.p.A.
The Personal Selection TÜV™ trademark is property of Technogym S.p.A.
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1. GENERAL NOTICES

1.1. INTRODUCTION

This document is reserved for Technogym Service technicians, and is intended to provide authorized personnel with the necessary information to correctly carry out repairs and maintenance. A thorough knowledge of the technical information contained in this manual is essential for completing the professional training of the operator.

In order to facilitate consultation, the paragraphs are accompanied by schematic drawings which illustrate the procedure being described.

This manual contains notices and symbols which have a specific meaning:

⚠️ WARNING: non observance may result in accident or injury.

⚠️ ATTENTION: non observance may cause damage to the machine.

👀 Information about the operation in progress.

❑ OBSERVE: observation about the operation in progress.

1.2. RECOMMENDATIONS

Technogym recommends the following steps for planning repair procedures:

- Carefully evaluate the customer’s description of the machine malfunction and ask all the necessary questions to clarify the symptoms of the problem.

- Clearly diagnose the causes of the problem. This manual provides the fundamental theoretical basis, which must then be integrated by personal experience and attendance at the training courses periodically offered by Technogym.

- Rationally plan the repair procedure so as to minimize the downtime necessary for procuring spare parts, preparing tools, etc.

- Access the component to be repaired, avoiding any unnecessary operations. In this regard it will be useful to refer to the disassembly sequence described in this manual.
1.3. GENERAL RULES FOR REPAIR PROCEDURES

1. Always mark any parts or positions which may be confused with each other at the time of reassembly.

2. Use original Technogym spare parts and lubricants of the recommended brands.

3. Use special tools where specified.

4. Consult the Technical Newsletters, which may contain more up-to-date information on adjustments and maintenance than those contained in this manual.

5. Before starting the repair procedure, make sure that the recommended tools are available and in good condition.

6. For the procedures described in this manual, use only the specified tools.

⚠️ OBSERVE: The tool sizes quoted in this manual are expressed in mm.
2. TECHNICAL CHARACTERISTICS

The Personal Selection TÜV machine code is a sequence of alphanumeric characters arranged as follows:

2.1. PRODUCT CODE: MACHINES

<table>
<thead>
<tr>
<th>Code</th>
<th>Machine</th>
<th>Code</th>
<th>Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>Upper Back</td>
<td>71</td>
<td>Vertical Traction</td>
</tr>
<tr>
<td>50</td>
<td>Rotary Torso</td>
<td>80</td>
<td>Low Row</td>
</tr>
<tr>
<td>51</td>
<td>Leg Press</td>
<td>90</td>
<td>Leg Curl</td>
</tr>
<tr>
<td>57</td>
<td>Abdominal Crunch</td>
<td>91</td>
<td>Leg Extension</td>
</tr>
<tr>
<td>58</td>
<td>Lower Back</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2-1

2.2. CODIFICA DI PRODOTTO: PANCHE

<table>
<thead>
<tr>
<th>Code</th>
<th>Machine</th>
<th>Code</th>
<th>Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Crunch Bench</td>
<td>20</td>
<td>Adjustable bench</td>
</tr>
</tbody>
</table>

Table 2-2
For example, a possible product code would be:

D69510-ALR0CGGK

which is interpreted as follows:

- D69510: Unit of measurement, Kg
- AL: Plastic parts colour RAL 7024
- R0: Gray casing colour
- C: Brilliant green upholstery colour
- GG: Silver frame colour
- K: Weight stack configuration
- Personal Selection TÜV
- Leg Press
2.3. EQUIPMENTS: MECHANICAL CHARACTERISTICS

2.3.1. D6946 – UPPER BACK

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>119 x 114 x 148.5 cm</td>
<td>119 x 142 x 148.5 cm</td>
</tr>
<tr>
<td></td>
<td>47 x 45 x 58 in</td>
<td>47 x 56 x 58 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>197 Kg – 394 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>65 Kg – 130 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
</tbody>
</table>

2.3.2. D6950 – ROTARY TORSO

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>118.5 x 112 x 148.5 cm</td>
<td>118.5 x 112 x 148.5 cm</td>
</tr>
<tr>
<td></td>
<td>47 x 44 x 58 in</td>
<td>47 x 44 x 58 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>197 Kg – 394 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>65 Kg – 130 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
</tbody>
</table>
2.3.3. **D6951 – Leg Press**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>207 x 120 x 180 cm</td>
<td>207 x 120 x 180 cm</td>
<td></td>
</tr>
<tr>
<td>81 x 47 x 71 in</td>
<td>81 x 47 x 71 in</td>
<td></td>
</tr>
<tr>
<td>Overall weight</td>
<td>572 Kg – 1144 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>190 Kg – 380 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>250 Kg – 500 lbs</td>
<td></td>
</tr>
</tbody>
</table>

2.3.4. **D6957 – Abdominal Crunch**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>128 x 105 x 148.5 cm</td>
<td>142 x 105 x 148.5 cm</td>
<td></td>
</tr>
<tr>
<td>50 x 41 x 58 in</td>
<td>56 x 41 x 58 in</td>
<td></td>
</tr>
<tr>
<td>Overall weight</td>
<td>207 Kg – 414 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>65 Kg – 130 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
</tbody>
</table>
2.3.5. **D6958 – Lower Back**

### D6958 – Lower Back

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>121 x 103 x 148.5 cm</td>
<td>140 x 103 x 148.5 cm</td>
</tr>
<tr>
<td></td>
<td>48 x 40 x 58 in</td>
<td>55 x 40 x 58 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>212 Kg – 424 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>65 Kg – 130 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
</tbody>
</table>

**2.3.6. D6971 – Vertical Traction**

### D6971 – Vertical Traction

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max in usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 x 131.5 x 186 cm</td>
<td>167 x 145.5 x 186 cm</td>
</tr>
<tr>
<td></td>
<td>59 x 52 x 73 in</td>
<td>59 x 57 x 73 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>292 Kg – 584 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>100 Kg – 200 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>130 Kg – 260 lbs</td>
<td></td>
</tr>
</tbody>
</table>
2.3.7. D6980 – Low Row

D6980 – Low Row

<table>
<thead>
<tr>
<th></th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>113.5 x 120.5 x 148 cm</td>
<td>113.5 x 120.5 x 148 cm</td>
</tr>
<tr>
<td></td>
<td>44.5 x 47.5 x 58.5 in</td>
<td>44.5 x 47.5 x 58.5 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>268 Kg – 536 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>130 Kg – 260 lbs</td>
<td></td>
</tr>
</tbody>
</table>

2.3.8. D6990 – Leg Curl

D6990 - Leg Curl

<table>
<thead>
<tr>
<th></th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>130 x 105 x 148.5 cm</td>
<td>141 x 107 x 148.5 cm</td>
</tr>
<tr>
<td></td>
<td>51 x 41 x 58 in</td>
<td>55 x 42 x 58 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>254 Kg – 508 lbs</td>
<td></td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>95 Kg – 190 lbs</td>
<td></td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td>125 Kg – 250 lbs</td>
<td></td>
</tr>
</tbody>
</table>
2.3.9. **D6991 – Leg Extension**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>stand by</th>
<th>max during exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall weight</td>
<td>130 x 105 x 148.5 cm</td>
<td>152 x 105 x 148.5 cm</td>
</tr>
<tr>
<td>Standard weight stack</td>
<td>51 x 41 x 58 in</td>
<td>60 x 41 x 58 in</td>
</tr>
<tr>
<td>Enhanced weight stack</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Be aware:**

- The weights in the above tables refer to machines with standard weight stack.
- The dimensions are “length x width x height” related to the user in exercise position.
- The stand by dimensions are the minimum machine dimensions without any disassembling.
2.4. BENCH: MECHANICAL CHARACTERISTICS

2.4.1. **D6P915 – CRUNCH BENCH**

<table>
<thead>
<tr>
<th>D6P915 – Crunch Bench</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Standard configuration</th>
<th>max in usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>144 x 66 x 115 cm</td>
<td>155 x 66 x 115 cm</td>
</tr>
<tr>
<td></td>
<td>52 x 26 x 46 in</td>
<td>61 x 26 x 46 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>44 Kg – 88 lbs</td>
<td></td>
</tr>
</tbody>
</table>

2.4.2. **D6P920 – ADJUSTABLE BENCH**

<table>
<thead>
<tr>
<th>D6P920 – Adjustable bench</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Standard configuration</th>
<th>max in usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>119 x 69 x 45.5 cm</td>
<td>119 x 69 x 130 cm</td>
</tr>
<tr>
<td></td>
<td>47 x 28 x 18 in</td>
<td>47 x 28 x 52 in</td>
</tr>
<tr>
<td>Overall weight</td>
<td>36 Kg – 72 lbs</td>
<td></td>
</tr>
</tbody>
</table>

Be aware:

- The dimensions are “length x width x height” related to the user in exercise position.
- The standby dimensions are the minimum machine dimensions without any disassembling.

### 2.5. AMBIENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Operating</th>
<th>from 5° to 35° C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Storage</td>
<td>from -20 to 55° C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating</td>
<td>from 30% to 80% non-condensing</td>
</tr>
<tr>
<td></td>
<td>Storage</td>
<td>from 5% to 85% non-condensing</td>
</tr>
</tbody>
</table>

### 2.6. CONFORMITY TO REGULATIONS

The machine conforms to the following directives:

<table>
<thead>
<tr>
<th>Directive</th>
<th>Europe</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical devices</td>
<td>93/42/CEE</td>
<td>-</td>
</tr>
</tbody>
</table>

In addition all the machines have a Risk rate I.
3. INSTALLING AND MOVING THE MACHINES

3.1. SPECIFICATIONS AND REQUIREMENTS

For proper installation of the equipment, make sure that:

1. The equipment is installed on a level, vibration-free surface with a sufficient capacity to support its weight plus that of the user.
2. The area is not dusty or sandy.
3. You have observed the temperature and humidity operating requirements indicated in paragraph 2.5. “Ambient specifications”.

1. The machine is supplied on a wooden pallet, wrapped in nylon bag and packed in a carton.
2. To move the machine, it is necessary to use a pallet truck or fork lift truck.

Photo 3.1-1

Continued on the following page →
3. Remove the carton and the nylon bag, and leave the machine secured to the pallet with the fixing straps.

4. Position the machine in the place of installation using a pallet truck, a wheeled platform (dolly) or by fitting the wheels as described in paragraph 3.2.2. “Moving with wheels”.

Photo 3.1-2
3.2. MOVING

For proper movement of the machines, proceed as follows:

3.2.1. MOVING WITHOUT WHEELS

When lifting or moving the machine press only against the frame.

1. Adequately protect the parts of the frame that will be in contact with the means of transportation: pallet changer or lift truck.
2. Insert the means of transportation (pallet changer or lift truck from the weight stack side.
3. Move the machine carefully, making sure it does not overbalance.

3.2.2. MOVING WITH WHEELS

When lifting or moving the machine press only against the frame.

1. Tip the machine from the user side and insert the 2 fixed wheels under the weight stack hoists, as illustrated in the following photos:

Photo 3.2-1
2. Tip the machine from the weight stack side and insert 1 or 2 steering wheels under the user side hoists, as illustrated in the following photo:

![Photo 3.2-2](image)

3. Depending on the wheel model used, it could be necessary to back off the screw fixing the foot, inserter the wheel and secure it using the screw previously removed.

Once the machine is in the desired place of installation, level it by adjusting the height of one or more of the machine feet as described in paragraph 5.3. “The machine is not flat”.

3. This allows the machine to be moved easily, pushing it from the weight stack side.

![Photo 3.2-3](image)
4. ACCESSORIES

There are no accessories available with this product line.
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5. WHAT IF …

5.1. THE WEIGHT STACK DOES NOT SLIDE SMOOTHLY

This problem is due to insufficient lubrication of the bars or grime build-up from a mixture of dust and oil. Clean and lubricate as illustrated below:

1. Use a paper towel slightly dampened with ethyl alcohol to clean the weight stack bars of the machine, removing dust and grime.
2. Reassemble the cross and add a few drops of the oil found in the service box to the cross bushings as shown in the photo below.
3. Move the cross up and down, making sure to distribute the oil evenly along the full length of the bars.
4. Dry excess oil from the bushings with a dry cloth.

Do not use too much oil, and dry all excess thoroughly since too much oil could cause more dust to build up.

When the bars and bushings are especially dirty, and only when the cross alone or at most the cross and one plate are selected, it may not return to rest on the other plates but stick a few centimetres above. Clean and lubricate the bars thoroughly, as well as inside the bushings where the bars slide, using a paper towel moistened with ethyl alcohol.
5.2. THE WEIGHT STACK CABLE IS NOT TAUT

This problem is due to lengthening of the weight stack cable. Therefore, to solve the problem you must use the cable tension adjustment system.

If the cable is new, before adjusting its tension, it is necessary to do a few reps at maximum load to “stretch” the cable itself.

There are 2 possible mechanical solutions:

- weight stack with crimped cable;
- weight stack with doubling pulley.

the 2 different adjustment procedures detailed here below correspond to these two mechanical options:

5.2.1. ADJUSTING THE TENSION OF THE CABLE WITH CRIMPED FITTING

This operation applies to Abdominal Crunch, Leg Curl, Leg Extension, Lower Back.

1. Set the minimum weight: the only selected weight will be the cross.
2. Loosen the counter-nut a using a 22-gauge wrench.
3. Tighten the screw b at the end of the cable so that the cable is taut and the cross raised.
4. Slowly loosen the screw b until the cable is still taut, but the cross is resting on the weight stack.
5. Tighten the counter-nut a using a 22-gauge wrench.

Check the tension of the cable by carrying out a couple of repetitions with the minimum weight, and then slowly resting the cross on the weight stack. The cross must rest firmly on the weight stack, and the cable must be slightly taut.

5.2.2. ADJUSTING THE TENSION OF THE CABLE WITH DOUBLING PULLEY

This operation applies to Leg Press, Low Row, Rotary Torso, Upper Back and Vertical Traction.
1. Set the minimum weight: the only selected weight will be the cross.

2. Loosen the screw a using a 8-gauge hexagonal T-wrench, holding the nut b in place with a 17-gauge wrench.

3. Working on both pulley covers, turn the pulley group counter-clockwise to increase the cable tension until the cable is taut and the cross rises.

4. Then turn the pulley cover clockwise to reduce the cable tension until the cable, still taut, rests on the weight stack.

5. Then tighten the screw and its nut loosened previously.

Check the tension of the cable by carrying out a couple of repetitions with the minimum weight, and then slowly resting the cross on the weight stack. The cross must rest firmly on the weight stack, and the cable must be slightly taut.
5.3. THE MACHINE IS NOT FLAT

To level the machine, you may adjust the height of the levelling foot as illustrated below:

![Photo 5.3-1](image)

We recommend that 2 people carry out this operation.

1. Lift the machine on one side until you can access the underside of the foot.
2. Adjust the screw a with a 8-gauge hexagonal T-wrench, tightening it to reduce the height of the foot and loosening it to increase the height.
3. Lower the machine back to the floor to check the effects of the adjustment.
4. Repeat the procedure described in point 2 until a satisfactory solution is reached.
5.4. THE LEVERS OF DUAL-AXIS MACHINES ARE NOT ALIGNED

This operation applies to Low Row, Upper Back and Vertical Traction.

To align the levers of dual-axis machines, you may adjust the position of the stop buffers against which the machine levers rest, as illustrated below:

1. Loosen the counter-nut a on both sides, using a 17-gauge wrench.

2. Adjust the position of the 2 stop buffers b, tightening or loosening them until the levers are aligned.

3. When the adjustment is complete, tighten the counter-nuts a once again.

Use a lever for a more precise check.

This procedure may also be carried out to adjust the starting position of the levers on the other machines.
5.5. THE SLIDING BARS OF THE LEG PRESS SEAT ARE NOT ALIGNED

To align the sliding bars of the seat, you may adjust the position as illustrated below:

1. Remove the seat as described in paragraph 6.5. “Leg Press Seat”.

For each bar:

2. Remove the protective caps at the ends of the bars.
3. Loosen the screw \( a \) using a 14-gauge hexagonal T-wrench.

4. Loosen the screw \( b \) using a 14-gauge hexagonal T-wrench.
5. Turn the bar until it is perfectly aligned.
5.6. THE TUBE START TO WABBLE

This operation applies to Upper Back, Low Row, Crunch bench.

1. Act on the 2 screws a to adjust the amount of play between the inner and outer tube and improve their sliding movement.

Photo 5.6-1
6. HOW TO DISASSEMBLE THE ...

6.1. FRONT WEIGHT STACK CASING

1. Back off the 4 screws a which are fixing the front casing to the encoder support bracket, using a 4-mm hex wrench.

2. Back off the 4 screws b, using a 5-mm hex wrench.

3. Remove the front weight stack casing.

Reassemble all the components, carrying out the procedure in reverse order.
6.2. TOP

1. Back off the 4 screws a, using a medium Phillips screwdriver.
2. Back of the self threading screws b on both internal side of the top and remove the plates c.
3. Remove the Top from the machine.
4. Reassemble all the components, carrying out the procedure in reverse order.
6.3. SEAT ON LOW MACHINES

This operation applies to Leg Curl, Leg Extension.

1. Move the seat into position 1 (all the way forward) so that the gas spring is as fully extended as possible.

2. Unscrew the nut a using a 13-gauge wrench.

3. Help the stem b of the gas spring extend itself, and rest its end on the floor.

4. Unscrew the nut a using a 13-gauge wrench.

The nuts “a” and “b” contain a steel ball to avoid to tighten them too much.

5. Remove the two stops c, backing off the screw d on both sides of the machine, using a 4-gauge hexagonal T-wrench.

During reassembly procedure, take care to mount the stops so that, the rubber side is direct toward the rear of the machine, as shown in the photo.

6. Back off the two screws e which are fixing the guide on the left side of the machine, using a 6-gauge hexagonal T-wrench.

Continued on next page →
Place a cloth between the frame and the seat carriage, to avoid to scratch the frame.

7. Back off the screw f and remove the guide g sliding it out from behind.
8. Back off the nut h using a 17-gauge wrench, locking the eccentric pin i using a 5-gauge hexagonal T-wrench.
9. Remove the eccentric pin and the pulley fixed on it.
10. Remove the seat, sliding it out from behind.
6.4. SEAT ON TALL MACHINES

This operation applies to Low Row, Upper Back e Vertical Traction.

1. Move the seat into position 1 (all the way down) so that the gas spring is as fully extended as possible.
2. Unscrew one of the three screws a using an 8-gauge hexagonal T-wrench.
3. Screw the removed screw into the hole c to fasten the seat sliding group to the machine frame.
4. Unscrew the other 2 screws a using an 8-gauge hexagonal T-wrench.
5. Remove the seat b.

Continued on next page →
6. Unscrew the 2 screws d using an 8-gauge hexagonal T-wrench.
7. Lift the machine on the weight stack side and unscrew the screw e of the foot using an 8-gauge hexagonal T-wrench; remove the foot.
8. Slide the seat sliding group downward, aided with a rubber mallet if necessary to help you pull it out.

Make sure to insert again the spacer “f” that allows to limit the range of motion of the seat group.

Make sure that the spacers between the wheels and frame of the sliding group have enough play to allow the group to slide.

To reassemble the seat, proceed as follows:

1. Insert the sliding group into the machine frame.
2. Fasten the group in place with the screws d.
3. Insert the foot.
4. In a slot for the screws a, insert one at least 9 cm long, and screw it in by at least 4÷5 threads.
5. Press your foot against the screw just inserted to compress the gas spring, thus allowing you to insert the screw in the hole e to lock the carriage.
6. Then proceed with assembling the seat.
6.5. LEG PRESS SEAT

1. Loosen the 4 dowels a, using a 4-gauge hexagonal T-wrench.
2. Remove the cable b.

3. Unscrew the 2 screws c, using a 4-gauge hexagonal T-wrench, locking down the nuts on the opposite side, using an 8-mm wrench.

4. Unscrew the 4 nuts d using a 17-mm tube wrench.
5. Remove the footboard pulling it out from the top.

Continued on next page →
6. Unscrew the 2 screws e, using a 4-gauge hexagonal T-wrench, locking down the nuts on the opposite side, using an 8-mm wrench.

7. Remove the sheet metal f by pulling it forward.

For each side of the machine:

8. Unscrew the screw g using an 8-gauge hexagonal T-wrench, holding the nut in place with a 17-gauge wrench.

9. Remove the pulley h.

Remove the seat by pulling it upward.
6.6. EASY START FOR TALL MACHINES

This operation applies to Vertical Traction.

1. Use an 8-gauge hexagonal T-wrench to unscrew the 3 screws a and remove the easy start group b by sliding it forward.

    Photo 6.6-1

2. Move the easy start group to the workbench and fasten it in a vice.

3. Adjust the easy start lever in the direction shown by the arrow.

4. Unscrew the screw c using a 6-gauge hexagonal T-wrench.

5. Keeping the lever activated, insert a peg remover tool in the hole of the ball joint of the tie-rod e to keep the spring locked.

    Photo 6.6-2

6. Unscrew the screw e using a 6-gauge hexagonal T-wrench.

7. Remove the cap f and use a 25-gauge sector wrench to unscrew the ring-nut below.

8. Remove the lever by sliding it out the side.

    Photo 6.6-3

Continued on next page →
9. Adjust the previously inserted peg remover tool to stretch the spring taut and move the tie-rod until you can see the dowel g.
10. Loosen the dowel g using a 4-gauge hexagonal T-wrench.
11. Slide the shaft to the side, allowing you to remove the fork h holding the tie-rod.

12. Remove the peg remover tool from the ball joint of the tie-rod, holding the other end of the rod with a rag to absorb the shock due to the thrust of the compressed spring.
13. Remove the tie-rod.

The adjustment of the distance I in the figure alongside is 423 mm for Vertical Traction.
6.7. RELEASE LEVER

This operation applies to Leg Curl, Leg Extension Lower Back.

1. Unscrew the screw a using a 5-gauge hexagonal T-wrench and remove the plastic guard b, sliding it upward.

2. Use a 6-gauge hexagonal T-wrench to unscrew the 4 screws c, making sure that the spacer d do not fall out.
3. Remove the release button.

With the release button on a workbench:

4. Remove the threaded pin e using a Medium flat head screwdriver.
5. Remove the pin f.
6. Unscrew the screw g using a 4-gauge hexagonal T-wrench.
7. Open the button, sliding the inner part up or down.
The version at present in production is composed by the following pieces:

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0D000766-*</td>
<td>Housing</td>
</tr>
<tr>
<td>2</td>
<td>0G000117-#</td>
<td>ROM button</td>
</tr>
<tr>
<td>3</td>
<td>0M022</td>
<td>Return spring</td>
</tr>
<tr>
<td>4</td>
<td>0N447</td>
<td>Adjustment shaft</td>
</tr>
<tr>
<td>5</td>
<td>0P000661AB</td>
<td>Threaded pin</td>
</tr>
<tr>
<td>6</td>
<td>0P6176</td>
<td>Link pin</td>
</tr>
<tr>
<td>7</td>
<td>0P6216AA</td>
<td>Selector pin</td>
</tr>
<tr>
<td>8</td>
<td>0V368</td>
<td>Spring retainer</td>
</tr>
<tr>
<td>9</td>
<td>0Z103</td>
<td>Screw M8x35</td>
</tr>
<tr>
<td>10</td>
<td>0ZS00027</td>
<td>Spiral pin 3x20</td>
</tr>
<tr>
<td>11</td>
<td>0ZV00034</td>
<td>Screw M5x6</td>
</tr>
</tbody>
</table>

To reassemble the button, make sure that:

1. The Phillips screw 11 is fastened in such a way to block the piece 8.
2. The threaded pin 5 is fastened to the piece 6 in such a way that the slot of the latter is positioned as shown in the drawing below:

3. To reassemble it on the machine, insert it into a hole in the bell.
6.8. SELECTOR SWITCH FOR ADDITIONAL WEIGHT

This operation does not apply to Leg Press, Low Row.

The selector switch for additional weight is hooked onto the cross. Since there are only 2 mechanical solutions available:

- cross with crimped cable;
- cross with doubling pulley.

there are 2 different disassembly procedures detailed here below:

6.8.1. MACHINES WITH CROSS WITH CRIMPED CABLE FITTING

This operation applies to Abdominal Crunch, Leg Curl, Leg Extension, Lower Back. 

1. Loosen the counter-nut a using a 22-gauge wrench.
2. Unscrew the screw b at the end of the cable so that the cable is free.

Continued on page 6.15→
6.8.2. MACHINES WITH CROSS WITH DOUBLING PULLEY

This operation applies to Rotary Torso, Upper Back and Vertical Traction.

For machines with doubling pulley:

1. Loosen the cable tension and lock the levers.
2. Unscrew the screw a using an 8-gauge hexagonal T-wrench, holding the nut b in place with a 17-gauge wrench.
3. Remove the pulley and pulley cover to free the cable.
4. Unscrew the 2 screws c, using an 8-gauge hexagonal T-wrench.
5. Remove the support d.

Continued on page 6.15→
For all equipment:

6. Unscrew the screw e using a 17-gauge sector wrench.
7. Remove the selector switch.

8. Unscrew the bolt f using a 4-gauge wrench.
9. Remove the blade g and ball bearing h allowing the 2 selector switch positions to be selected.
6.9. DISASSEMBLING UNLOCKING LEVER ON ABDUCTOR - ADDUCTOR

1. Back off the 4 screws \( \text{a} \) using a medium Phillips screwdriver and remove the upper plastic housing.

2. Back off the 2 screws \( \text{b} \) using a 5-mm hex wrench and remove the lower plastic housing.

3. Back off the 4 screws \( \text{c} \) using a 5-mm hex wrench, remove the shoulder rest upholstery \( \text{d} \) and its fixing plate.

4. Remove the cap \( \text{e} \) using a small flat screwdriver.

5. Back off the plastic cap \( \text{g} \) using a 17-mm hex wrench.

6. Pull out the roller upholstery \( \text{h} \) from the lever tube.

7. Carry out the steps from 1 to 4, on the right shoulder rest too.

To reassemble the shoulder rest lever, carry out the above steps in reverse order.
7. SPECIAL OPERATIONS

The term special operations refers to those procedures whose correct execution is fundamental for the safe and reliable operation of the machine.

7.1. LOCKING DOWN THE CABLE FIXING DOWELS

At least one end of the weight stack cable is fixed to the wheel or to a stop by means of the dowel screws highlighted in grey and circled in the figures below. The fixing dowels must be carefully locked down to prevent them from working loose and allowing the cable to come out, causing problems to the user.

Figure 7.1-1

Figure 7.1-2
Use a torque wrench to ensure that the dowels are locked down with the prescribed torque of 16.5 Nm / 12.2 ft.lbs.

7.2. LOCKING DOWN THE PULLEYS

The screws of the pulleys, highlighted in grey and circled in the figure below, must be carefully locked down to prevent them from working loose and causing problems to the user.

Use a torque wrench to ensure that the screws are locked down with the prescribed torque of 50 Nm / 36.9 ft.lbs.
8. WEIGHT STACK CABLE

8.1. LENGTH OF THE WEIGHT STACK CABLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Machine</th>
<th>Standard weight stack</th>
<th>Enhanced weight stack</th>
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<tr>
<td></td>
<td>code</td>
<td>code</td>
<td>code</td>
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<tr>
<td></td>
<td>length (cm)</td>
<td>length (cm)</td>
<td>length (cm)</td>
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<tr>
<td>D6946</td>
<td>Upper Back</td>
<td>0V634(1)</td>
<td>0V634(1)</td>
</tr>
<tr>
<td></td>
<td>579</td>
<td>557</td>
<td></td>
</tr>
<tr>
<td>D6950</td>
<td>Rotary Torso</td>
<td>0R000059</td>
<td>0R000059</td>
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<tr>
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<td>285</td>
<td>275</td>
<td></td>
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<td>Leg Press</td>
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<td>0R000018</td>
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<tr>
<td></td>
<td>665</td>
<td>643</td>
<td></td>
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<tr>
<td>D6957</td>
<td>Abdominal Crunch</td>
<td>0V638</td>
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<tr>
<td></td>
<td>236</td>
<td>226</td>
<td></td>
</tr>
<tr>
<td>D6958</td>
<td>Lower Back</td>
<td>0V638</td>
<td>0V638</td>
</tr>
<tr>
<td></td>
<td>247</td>
<td>237</td>
<td></td>
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<tr>
<td>D6971</td>
<td>Vertical Traction</td>
<td>0V634(1)</td>
<td>0V634(1)</td>
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<td>613</td>
<td>591</td>
<td></td>
</tr>
<tr>
<td>D6980</td>
<td>Low Row</td>
<td>0V634(1)</td>
<td>0V634(1)</td>
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<tr>
<td></td>
<td>728</td>
<td>708</td>
<td></td>
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<td>D6990</td>
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<td>178</td>
<td></td>
</tr>
<tr>
<td>D6991</td>
<td>Leg Extension</td>
<td>0V646</td>
<td>0V646</td>
</tr>
<tr>
<td></td>
<td>204</td>
<td>194</td>
<td></td>
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</tbody>
</table>

**CAUTION:**
(1) You must indicate the length when ordering this cable.
8.2. ROUTING OF THE WEIGHT STACK CABLE

The following pages illustrate the routing of the weight stack cables through the pulleys for each machine, for use as reference when replacing the machine cables.

8.2.1. D6946 – UPPER BACK

8.2.2. D6950 – ROTARY TORSO
8.2.3.  D6951 – LEG PRESS

8.2.4.  D6957 – ABDOMINAL CRUNCH
8.2.5.  **D6958 – LOWER BACK**

<table>
<thead>
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8.2.6.  **D6971 – VERTICAL TRACTION**

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<td><img src="Image" alt="Image of D6971 - Vertical Traction" /></td>
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</table>
8.2.7.  D6980 – Low Row

8.2.8.  D6990 – Leg Curl
8.2.9. **D6991 – Leg Extension**

<table>
<thead>
<tr>
<th>D6991 – Leg Extension</th>
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<tbody>
<tr>
<td>![Diagram of D6991 Leg Extension Machine]</td>
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</table>
9. MAINTENANCE

To keep the machine in perfect working order and forestall possible problems it is necessary to carry out the scheduled maintenance operations described below. The maintenance operations can essentially be classified according to the frequency with which they need to be performed:

- Daily maintenance operations;
- Weekly maintenance operations;
- Monthly maintenance operations;
- Twice yearly maintenance operations.

The operations require different levels of operator qualification. The following paragraphs describe the recommended procedures.

9.1. DAILY MAINTENANCE OPERATIONS

These operations can be carried out by the machine owner and do not require any special skills.

The daily machine maintenance consists of simple external cleaning, for the purposes of general hygiene.

For the daily maintenance of the machine, proceed as follows:

9.1.1. CLEANING UPHOLSTERY

1. We recommend that you perform this operation daily.
2. Clean the upholstery of the machine using a cloth moistened with Clean Well.

CAUTION: do not use alcohol, benzene, or chemical products in general.

3. We recommend drying the upholstery after cleaning.
9.2. WEEKLY MAINTENANCE OPERATIONS

These operations can be carried out by the machine owner and do not require any special skills.

The weekly machine maintenance operations consists of simple cleaning, lubrication and checking the emergency stop to ensure the correct and safe functioning of the machine.

For the weekly maintenance operations, proceed as follows:

9.2.1. CLEANING THE FRAME AND PAINTED PARTS

1. Clean the frame and painted parts of the machine using a cloth moistened with Clean Well.

   CAUTION: do not use alcohol, benzene, or chemical products in general.

9.2.2. CLEANING THE CHROME-PLATED PARTS

   Do not carry out this test on the sliding bars of the weight stack.

1. Use a paper towel slightly dampened with ethyl alcohol to clean the chrome-plated parts of the machine, removing dust and grime.

   CAUTION: remove any surface rust spots with a metal scrubber.

2. If you expect the machines to remain unused for an extended period of time, we recommend protecting the chrome-plated parts with a layer of liquid petroleum jelly applied to the surface. Once you start using them again, clean the chrome-plated parts with a paper towel slightly moistened with ethyl alcohol.
9.3. MONTHLY MAINTENANCE OPERATIONS

These operations can be carried out by the machine owner and do not require any special skills.

The monthly machine maintenance operations consists of simple cleaning, lubrication and checking the state of wear to ensure the correct and safe functioning of the machine.

For the monthly maintenance of the machine, proceed as follows:

9.3.1. CHECK THE CROSS, BARS AND WEIGHT STACK PLATES
1. Check the wear status of the cross bushings and weight stack plates. Repair and/or replace any worn parts.
2. Check the wear status of the chrome plating of the weight stack bars. Repair and/or replace any worn parts.
3. Check the wear status of the weight stack bars and weight stack support stops. Repair and/or replace any worn parts.
4. Make sure the weight stack bars are firmly fastened. Repair and/or replace any worn parts.
5. Use a paper towel slightly dampened with ethyl alcohol to clean the weight stack bars of the machine, removing dust and grime.

CAUTION: remove any surface rust spots with a metal scrubber.

6. Lubricate the bars and bushings of the plates and cross using the oil found in the service box.
7. Check the adhesive label indicating the load corresponding to the weight stack plates. Replace any worn parts.

9.3.2. CHECK THE CABLES
1. Check the wear status of the machine cables, paying special attention to any hardened spots or cracks in the protective plastic of the cable. Replace any worn parts.
2. Check the passage of the machine cables through cams, pulleys and/or the terminals connected to ball joints.
3. Lubricate ball joints with the oil found in the box service.
4. Check the tension of the machine cables.

9.3.3. CHECK THE MECHANISMS
1. Check the wear status of the machine mechanisms: lever arms, shafts, lever systems. Repair and/or replace any worn parts.
2. Lubricate the mechanisms using MOLYKOTE LONGTERM W 2.

9.3.4. CHECK THE GAS SPRINGS
1. Check the efficiency of the gas spring, making sure it sufficiently cushions the stem return to its outward position.
2. Clean the stem using a dry cloth.

CAUTION: do NOT lubricate the gas spring stem for any reason.
9.3.5. **CHECK THE WEIGHT STACK STOPS**
1. Check the wear status of the stops. Repair and/or replace any worn parts.
2. Check the position of the stops and make sure they are firmly fastened in place.

9.3.6. **CHECK THE LEG PRESS SEAT MECHANISM**
1. Check the wear status of the support bars and seat pulleys. Repair and/or replace any worn parts.
2. Clean the seat support bars using alcohol.

**CAUTION:** lubricate the support bars with silicon oil.

9.3.7. **CHECKING THE SEAT MECHANISM ON LOW MACHINES**
Perform this check on the Leg Extension, Leg Curl.

1. Check the wear status of the pulleys, support bars and seat guide. Repair and/or replace any worn parts.
2. Clean the seat support guide bars using alcohol.
3. Lubricate the seat support guide bars using the oil found in the box service.

9.3.8. **CHECKING THE SEAT MECHANISM ON TALL MACHINES**
Perform this check on the Low Row, Upper Back, Vertical Traction.

1. Check the wear status of the seat guide pulleys. Repair and/or replace any worn parts.
2. Clean the seat guide pulleys using alcohol.
3. Lubricate the seat support guide bars using the oil found in the box service.

9.3.9. **CHECKING THE UPHOLSTERY**
1. Check the wear status of the upholstery. Replace any worn parts.

9.3.10. **CHECKING VARIOUS RUBBER PARTS**
These operations apply to handles, knobs, mats, frame guards, bell covers, Selection top, feet …

1. Check the wear status of the rubber parts used on the machine. Repair and/or replace any worn parts.
9.4. **TWICE-YEARLY MAINTENANCE OPERATIONS**

These operations can only be carried out by a qualified technician specifically trained by Technogym and authorized to carry out machine installation and adjustments, as well as special maintenance operations or repairs which require special knowledge of the machine, its operation, safety systems and working procedures.

The six-monthly maintenance operations involve checking the functioning, wear and tension of the mechanical components so as to ensure the correct and safe operation of the machine.

For the six-monthly maintenance of the machine, proceed as follows:

9.4.1. **CHECKING THE ADDITIONAL WEIGHT**
1. Make sure the additional weight slides smoothly. Repair and/or replace any worn parts.
2. Lubricate the sliding tracks using MOLYKOTE LONGTERM W2.

9.4.2. **CHECK THE PULLEYS**
1. Check the wear status of the pulley grooves. Repair and/or replace any worn parts.

9.4.3. **CHECK THE CAM GROUP**
1. Check the wear status of the cam grooves. Repair and/or replace any worn parts.
2. Make sure all parts in the cam group are firmly tightened.

9.4.4. **CHECK THE LEVER STOPS**
1. Check the wear status of the lever stops. Repair and/or replace any worn parts.
2. Check the position of the stops and make sure they are firmly fastened in place.

9.4.5. **REPLACING THE CABLES**
1. Replace the machine cables once a year if the machines are used intensively, every 2 years under normal use.

9.4.6. **LUBRICATING THE RELEASE SYSTEMS**

Perform this check on:

- Chest pad upholstery support on Upper Back;
- Roller position adjustment on Leg Extension, Leg Curl and Lower Back.

1. On Leg Extension, Leg Curl and Lower Back disassemble the rubber bell guard and lubricate the start position selection pin using MOLYKOTE LONGTERM W2.
2. On Upper back, lubricate the chest rest setting pin using MOLYKOTE LONGTERM W2.

9.4.7. **SCREW AND BOLT CHECK**
1. Make sure that the screws and bolts are firmly tightened, especially in the weight stack and seat adjustment areas, and around moving parts in general. Tighten any that are loose.
9.4.8. **CHECKING FOR MECHANISM PLAY**

1. Make sure that the machine mechanisms (lever arms, shafts, starting position adjustments, leverages) have no play. Repair and/or replace any worn parts.

9.4.9. **CHECKING CROSS ALIGNMENT**

1. Do not select any weight, and lift the cross. Make sure that the selector rod is properly centred over the plate hole, and that all plates in the weight stack may be selected without any strain by the selection knob. Force it to the centre by hand.
10. FUNCTIONAL TESTS

Every time maintenance and/or repairs are performed on a machine, it is necessary to carry out a series of mechanical tests to ensure:

- that the medical device is working properly;
- that the medical device is working safely;
- that the exercises are performed according to the biomedical specifications for which the medical device was designed.

10.1. WEIGHT STACK CABLE ASSEMBLY TEST

Make sure the weight stack cable is properly assembled, ensuring that:

- all grub screws of the cable clamp pins have been firmly tightened, selecting the maximum load and performing one or two repetitions;
- all pulleys on which the cable slides have been fastened correctly, by selecting the weight stack plate n°10 with the doubling lever in position 2 and performing about ten repetitions, making sure that the various pulleys do not make any unusual noises;
- the cable is properly mounted, passing it through all of the pulleys in the correct order, by selecting the weight stack plate n°10 with the doubling lever in position 2 and performing about ten repetitions, making sure it moves smoothly and silently.
- That the tension and length of the cable have been properly adjusted according to the procedures illustrated in chapter 8 of this manual.

10.2. HOUSING ASSEMBLY TEST

Make sure the machine housing is properly assembled, checking that all guards have been mounted correctly, as described in the procedures in chapter 7 of this manual, so that no part of the machine remains unprotected and a possible cause of user accident and injury.

10.3. MECHANICAL RESISTANCE DEVICE ASSEMBLY TEST

Make sure the mechanical resistance devices are properly assembled, such as:

- Weight stack: make sure that all plates in the weight stack may be selected using the pin, and perform around ten repetitions by selecting the weight stack plate n°10 with the doubling lever in position 2;
- Rubber bands: make sure that the rubber bands may be included and excluded without problems, using the 4 knobs on the front of the machine.

Incorrect assembly or adjustment of the various devices could lead to user accidents and injury, or cause non-compliance with the biomedical specifications of the machine when used.
10.4. SEAT GROUP ASSEMBLY TEST

Make sure the machine seat group is properly assembled, checking that has been mounted correctly, as described in the procedures in chapter 7 of this manual, ensuring that:

- no part of the machine remains unprotected and a possible cause of user accident and injury;
- the seat group moves smoothly and silently;
- it’s possible to select all the available adjusting position.

Incorrect assembly or adjustment of the device could lead to user accidents and injury, or cause non-compliance with the biomedical specifications of the machine when used.
11. APPENDIX

11.1. WHAT TO ORDER TO AUGMENT THE WEIGHT STACK

<table>
<thead>
<tr>
<th>Codes Machines</th>
<th>Weight stack</th>
<th>Parts to power the weight stack</th>
<th>Assembly code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D6890</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leg Curl</td>
<td>Std 95 kg</td>
<td>0F141AA-GG x 6 weight</td>
<td>A0000176AA-KG</td>
</tr>
<tr>
<td></td>
<td>Powered 125 kg</td>
<td>0B178AA(2) x 12 bushing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0E000018-KG x 1 sticker</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0P2011 x 1 selector rod</td>
<td></td>
</tr>
<tr>
<td></td>
<td>190 lbs</td>
<td>0F141AA-GG x 6 weight</td>
<td>A0000176AA-LB</td>
</tr>
<tr>
<td></td>
<td>250 lbs</td>
<td>0B178AA(2) x 12 bushing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0E000018-LB x 1 sticker</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>0P2011 x 1 selector rod</td>
<td></td>
</tr>
<tr>
<td><strong>D6950</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotary Torso</td>
<td>Std 65 kg</td>
<td>0F141AA-GG x 6 weight</td>
<td>A000184AA-KG</td>
</tr>
<tr>
<td></td>
<td>Powered 95 kg</td>
<td>0B178AA(2) x 12 bushing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0E000018-LB x 1 sticker</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0P2013 x 1 selector rod</td>
<td></td>
</tr>
<tr>
<td></td>
<td>130 lbs</td>
<td>0F141AA-GG x 6 weight</td>
<td>A000184AA-LB</td>
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<tr>
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<td>190 lbs</td>
<td>0B178AA(2) x 12 bushing</td>
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<td></td>
<td>0E000018-LB x 1 sticker</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>0P2013 x 1 selector rod</td>
<td></td>
</tr>
<tr>
<td><strong>D6951</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leg Press</td>
<td>Std 190 kg</td>
<td>0F000057-GG x 6 weight</td>
<td>A000180AA-KG</td>
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<tr>
<td></td>
<td>Powered 250 kg</td>
<td>0B159 x 12 bushing</td>
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<td></td>
<td></td>
<td>0V2236 x 12 shock absorber(1)</td>
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<td></td>
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<td>0E000017-KG x 1 sticker</td>
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<td></td>
<td></td>
<td>0P2012 x 1 selector rod</td>
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<td>500 lbs</td>
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<td>0V2236 x 12 shock absorber(1)</td>
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<td>0E000017-LB x 1 sticker</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>0P2012 x 1 selector rod</td>
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</tr>
<tr>
<td>Abdominal Crunch</td>
<td>Std 65 kg</td>
<td>0F141AA-GG x 6 weight</td>
<td>A000187AA-KG</td>
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<td><strong>D6958</strong></td>
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<td>0B178AA(2) x 12 bushing</td>
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</tr>
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<td>Lower Back</td>
<td>Powered 95 kg</td>
<td>0E000018-KG x 1 sticker</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0P2013 x 1 selector rod</td>
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</tr>
<tr>
<td></td>
<td>130 lbs</td>
<td>0F141AA-GG x 6 weight</td>
<td>A000187AA-LB</td>
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<td>190 lbs</td>
<td>0B178AA(2) x 12 bushing</td>
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<td>0E000018-LB x 1 sticker</td>
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</tr>
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<td></td>
<td></td>
<td>0P2013 x 1 selector rod</td>
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### Codes

<table>
<thead>
<tr>
<th>Machines</th>
<th>Weight stack</th>
<th>Parts to power the weight stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6971 Vertical Traction</td>
<td>100 kg 130 kg</td>
<td>0F141AA-GG x 6 weight 0B178AA(2) x 12 bushing 0E000018-KG x 1 sticker 0P2010 x 1 selector rod</td>
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<td>200 lbs 260 lbs</td>
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<td>190 lbs 260 lbs</td>
<td>0F141AA-GG x 7 weight 0B178AA(2) x 12 bushing 0P000137 x 1 selector rod 0E000018-LB x 1 sticker</td>
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### CAUTION:

(1) Are available shock absorber of different thickness, as follows:

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<thead>
<tr>
<th>CODE</th>
<th>THICKNESS (mm)</th>
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<tbody>
<tr>
<td>0V2236</td>
<td>17.8</td>
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<td>0V2254</td>
<td>17.2</td>
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<td>0V2255</td>
<td>17.5</td>
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<td>0V2256</td>
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<td>0V2257</td>
<td>18.4</td>
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(2) Bushings of different thickness are available for more precise adjustment of the weight stack plates, so that they can all be easily selected using the pin.

<table>
<thead>
<tr>
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<th>THICKNESS (mm)</th>
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<tr>
<td>0B178AA</td>
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<tr>
<td>0B000563AA</td>
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<td>0B000562AA</td>
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## 11.2. UPHOLSTERY

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<td>D6946</td>
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<td>01082AA-R</td>
</tr>
<tr>
<td>D6951</td>
<td>LEG PRESS</td>
<td>01000311AA-R</td>
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<tr>
<td></td>
<td></td>
<td>01197-R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01080-R</td>
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<td>01081-R</td>
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<tr>
<td>D6950</td>
<td>ROTARY TORSO</td>
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<td>01197-R</td>
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<td>01000303AA-R</td>
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<td>01081-R</td>
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<td>D6P920</td>
<td>ADJUSTABLE BENCH</td>
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<td>01000184-R</td>
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<td>01081-R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01000222AA-R</td>
</tr>
</tbody>
</table>
11.3. TOOLS TO USE

The following tools are necessary to carry out all disassembly, adjustment and maintenance operations on the machines:

- Medium-sized Philips screwdriver;
- 6.5-gauge wrench;
- 8-gauge wrench;
- 13-gauge wrench;
- 14-gauge wrench;
- 17-gauge wrench;
- 22-gauge wrench;
- 2.5-gauge hexagonal T-wrench;
- 4-gauge hexagonal T-wrench;
- 5-gauge hexagonal T-wrench;
- 6-gauge hexagonal T-wrench (to use only for the floor fastening kit);
- 8-gauge hexagonal T-wrench;
- 14-gauge hexagonal T-wrench 14 (only for Leg Press bars and Abdominal and Lower Back foot board);
- 4-gauge hexagonal L-wrench;
- Special socket wrench provided by Technogym for Ø 17 ring-nut fitting ½ (code 0Y000061);
- Special socket wrench provided by Technogym for Ø 25 ring-nut fitting ½ (code 0Y000062);
- 45-gauge hook wrench (only for side pin machines) (code 0Y000092);
- 6-mm pointed tool;
- Torque wrench;
- Hammer.

⚠️ CAUTION: Tool measurements are expressed in mm.