

SPIRIT



SP-4605 Leg Extension / Leg Curl

OWNER'S MANUAL

Please carefully read this entire manual before operating your new strength equipment.

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Introduction

This manual will acquaint you with the assembly, operation and maintenance of your strength equipment.

SPIRIT Series – **SP-4605 Leg Extension / Leg Curl** manufactured by Spirit Fitness®

Be sure to read and follow the information and instructions before assembling, using or servicing SPIRIT strength equipment.

Manufacturer

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If any items need replacement contact the Spirit Fitness Customer Support Department. For international customers, please contact your local distributor.

IMPORTANT SAFETY INSTRUCTIONS

Read the Owner's Manual carefully before assembling, servicing or using the equipment. It is the responsibility of the facility owner and/or owner of the equipment to instruct users on proper operation of the equipment and review all labels.

WARNING: Serious injury could occur if these safety precautions are not observed:

USER SAFETY PRECAUTIONS

- Obtain a medical exam before beginning any exercise program.
- Stop exercising if feeling faint, dizzy or experiencing pain and consult your physician.
- Obtain instructions before using.
- Read and understand the owner's manual and all warnings posted on the machine before using.
- Keep all children (12 and under) away. Teenagers (13 and over) and disabled must be supervised.
- Keep body and clothing free from and clear of all moving parts.
- Use the machine only for the intended use. DO NOT modify the machine.
- Inspect machine prior to use. DO NOT use if it appears damaged or inoperable.
- Inspect all cables and connections prior to use. DO NOT use if any components are worn, frayed or damaged.
- DO NOT attempt to fix a broken or jammed machine. Notify floor staff.
- DO NOT use if guards are missing or damaged.
- Be sure that the weight pin is completely inserted. Use only the pin provided by the manufacturer. If unsure seek assistance.
- Never pin the weights in an elevated position. DO NOT use this machine if found in this condition. Seek assistance from floor staff.
- DO NOT use dumbbells or other incremental weights, except those provided by the manufacturer.
- Report any malfunctions, damage or repairs to the facility.
- Replace any warning labels if damaged, worn or illegible.
- DO NOT use this machine outdoors.

FACILITY SAFETY PRECAUTIONS

- Read the Owner's Manual carefully before assembling, servicing or using the equipment.
- Make sure that each machine is set up and operated on a solid level surface.
- Make sure that all users are properly trained on how to use the equipment.
- Make sure there is enough room for safe access and operation of the equipment.
- Perform regular maintenance checks on the equipment. Also pay close attention to all areas most susceptible to wear, including (but not limited to) cables, pulleys, belts and grips.
- Immediately replace worn or damaged components. If unable to immediately replace worn or damaged components then remove from service until the repair is made.
- Use only Spirit Fitness supplied components to maintain/repair the equipment.
- Keep a repair log of all maintenance activities.
- Inspect all cables and belts and connections prior to use. DO NOT use if any components are worn, frayed or damaged.

NOTE: It is the sole responsibility of the user/owner or facility operator to ensure that regular maintenance is performed.

PRECAUTIONS

These safety notes are directed to you as the owner of the Strength Equipment manufactured by Spirit Fitness. Please train all your users and fitness staff to follow these safety instructions.

DO

- Do encourage each of your users to discuss their health program or fitness regimen with a healthcare professional.
- Do stop operating your Strength Equipment if you feel dizzy or faint.
- Do perform regular preventative maintenance.
- Do exercise slowly until you reach a level of comfort.

DO NOT

- Do not let unsupervised children operate the Strength Equipment.
- Do not use without proper athletic shoes.
- Do not use in rainy weather outdoors, or in an enclosed pool environment.
- Do not drop or insert any object, hands, or feet into any opening or within the area of the product.
- Do not attempt to remove any shrouds or modify the Strength Equipment.

WARNING

- Your Strength Equipment manufactured by Spirit Fitness is designed for the exercise in a commercial or consumer environment.
- Please check with your physician prior to beginning any exercise program.
- Do not push yourself to excess. Stop if you are feeling faint, dizzy, or exhausted. Use common sense during workout.
- Read the owner's manual in its entirety before operating the Strength Equipment.
- Failure to obey this warning can result in injury or death.

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SECURING EQUIPMENT

The machine has holes in the feet, which allow for ease in anchoring to the floor. Spirit Fitness strongly recommends that to eliminate rocking, tipping or falling over due to incorrect usage and misuse, equipment be secured to a solid, level surface.

The solid, level surface should not deviate more than 1/8" over a 10' distance or as defined and required by local building and architectural codes.

Anchoring of equipment must be completed by a qualified licensed contractor.

Anchoring holes are provided on the feet of the frame. All anchoring locations must be used when anchoring the equipment to the floor.

Due to the wide variation of flooring on which machines may be anchored or installed, verify anchoring method and anchoring fasteners with a qualified and licensed contractor.

All anchor points must be able to withstand 750 lbs. (3.3 kN) pull-out force.

Do not use machine until it is properly anchored.

SAFETY GUIDELINES AND PRACTICES

Spirit Fitness recommends that all fitness equipment be used in a supervised area. It is recommended that the equipment be located in an access controlled area. Control is the responsibility of the owner. The extent of control is at the discretion of the owner.

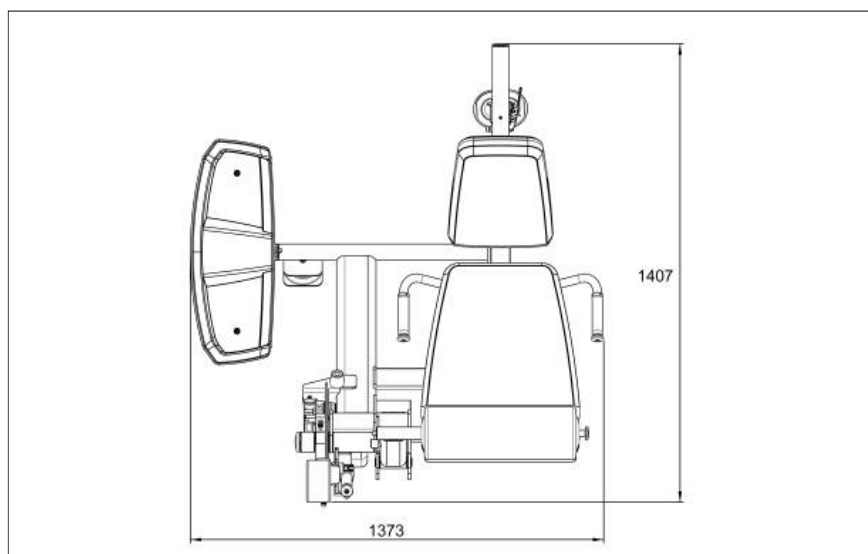
It is the responsibility of the purchaser/user of Spirit Fitness products to read and understand the owner's manual, and warning labels; as well as instruct all individuals, whether end users or supervising personnel, on proper usage of the equipment.

PROPER USAGE

- Use machine only as described in the manual. Failing to follow proper instructions may result in injury.
- Do not lean against or pull on the framework or any component, whether machine is at rest or in use. Inappropriate or improper use may result in injury to users or third parties (bystanders).
- Do not use machine if it is not located on a solid level surface or is improperly installed.
- Provide an adequate safety perimeter between the machine, walls and other equipment to ensure that the facility has the proper clearance for usage and training.

Live area and Training area

The live area shall be not less than 600mm (23.62") greater than the training area in the directions from which the equipment is accessed. The live area must also include the area for emergency dismount.



California Prop 65 Warning



WARNING: This product can expose you to chemicals including Toluene and Acrylamide, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

Warning Labels and Communication Stickers

The following pages show examples of Spirit® Fitness warning labels and communication stickers placed on the equipment as part of the manufacturing process. It is critical that owners maintain the integrity and placement of these stickers. If you find any stickers missing or damaged contact your local dealer or distributor for a replacement.

If any instructions or information are not clear, and please contact to SPIRIT FITNESS customer service right away.

NOTE: STICKERS AND LABELS ARE NOT SHOWN TO SCALE



SAFEGUARDS

The following fitness safeguards and operating precautions are directed to purchasers and users of the Strength Equipment. Club Managers should ensure that members and fitness staff are trained to follow these same instructions. Failure to follow these safeguards may result in injury or serious health risk.

Proper Usage

- DO NOT use any equipment in any way other than designed or intended by the manufacturer. It is imperative that SPIRIT FITNESS equipment is used properly to avoid injury.
- Injuries may result if exercising improperly or excessively. It is recommended that all individuals consult a physician prior to commencing an exercise program. If at any time during exercise you feel faint, dizzy or experience pain, STOP EXERCISING and consult your physician.
- Keep body parts (hands, feet, hair, etc.), clothing and jewelry away from moving parts to avoid injury.
- Follow instructions provided in this manual for correct foot position and basic techniques.
- The maximum weight for individuals using the Strength Equipment should not exceed 330 pounds (150 kilograms).

Inspection

- DO NOT use or permit use of any equipment that is damaged and/or has worn or broken parts. For all SPIRIT FITNESS equipment use only replacement parts supplied by SPIRIT FITNESS.
- Cables and belts pose an extreme liability if used when frayed. Always replace any cable or belt at first sign of wear (consult SPIRIT FITNESS if uncertain).
- EQUIPMENT MAINTENANCE - Preventative maintenance is the key to smooth operating equipment as well as to keep your liability to a minimum. Equipment needs to be inspected at regular intervals.
- Ensure that any person(s) making adjustments or performing maintenance or repair of any kind is qualified to do so.
- DO NOT ATTEMPT TO USE OR REPAIR ANY ACCESSORY APPROVED FOR USE WITH THE SPIRIT FITNESS EQUIPMENT WHICH APPEARS TO BE DAMAGED OR WORN.
- Check all belts, pulleys and bungee cords regularly for signs of wear, and replace if needed.
- Check regularly and follow all instructions for maintenance as specified in this manual.
- Replace immediately any defective parts and do not operate unit until all repairs are complete.

Operating Warnings

- Keep children away from the equipment. Parents or others supervising children must provide close supervision of children if the equipment is used in the presence of children.
- Do not allow users to wear loose fitting clothing or jewelry while using equipment. It is also recommended to have users' secure long hair back and up to avoid contact with moving parts.
- All bystanders must stay clear of all users, moving parts and attached accessories and components while machine is in operation.

Note: This Strength Equipment is not suitable for therapeutic purposes.

Assembly & Setup

Use the following procedures to unpack and assemble your **Strength Equipment manufactured by Spirit Fitness**.

Unpacking & Parts

1. Position the shipping carton so the Heavy End is located at the bottom.
2. Cut the straps then lift the box over the unit and unpack. Remove all parts from the shipping carton and foam inserts, and verify that all parts are included in your shipment:
3. Locate the hardware package. The hardware is separated into four steps. Remove the tools first. Remove the hardware for each step as needed to avoid confusion. The numbers in the instructions that are in parenthesis (#) are the item number from the assembly drawing for reference.

NOTE: All tools required to assemble the Strength Equipment are included within the packaging.

Take time now to enter your Strength Equipment serial number in the space below.
(Serial number is located on the center tube, see page 17).

Serial No. _____

NOTE: If you are missing any of the parts listed above, inspect the packing material and the box for items that may have been overlooked.

If parts are missing, or if you have any operational questions, please call your local Spirit Fitness's Service department or the distributor whom sold you the product. Please see page 3 for a listing of international corporate offices and locate the office nearest you. Have your serial number ready.

CAUTION: Damage to the Strength Equipment during assembly is not covered as part of the limited Spirit Fitness warranty. Take care not to drop or lean the Strength Equipment on its side. Carefully stand the Strength Equipment up in the normal upright position on a stable surface so it will not tip over during assembly.

Protect the environment by not disposing of this product with household waste. Check your local authority or approved waste center for recycling advice and facilities.

Product Specifications

Maximum Training Weight	180 kgs / 360 lbs
Products Weight	271 kgs / 598 lbs
Overall Dimensions	1407*1373*1580

Parts List

No.	Description	Spec	Qty	Part No.
1	Doorframe		1	SP-4605-001
2	Upper shield		1	SP-4605-002
3	Shield fixed plate		4	SP-4605-003
4	Guide rod		2	SP-4605-004
5	Guide rod fixed plate		1	SP-4605-005
6	Fixed bushing		12	SP-4605-006
7	Front shield		1	SP-4605-007
8	Back shield		1	SP-4605-008
9	Rubber bumper	φ64*φ32*φ20*35	2	SP-4605-009
10	Rubber bumper	φ38*φ21*10	2	SP-4605-010
11	Floor cushion		2	SP-4605-011
12	Rod end cover		4	SP-4605-012
13	Pulley sets	φ89*32	2	SP-4605-013
14	Selector pin		1	SP-4605-014
15	cross recessed countersunk head screw	M5*10	8	SP-4605-015
16	Countersunk head hexagon socket screw	M6*16	12	SP-4605-016
17	Inner Hexagon Mushroom Head Bolt	M8*25	4	SP-4605-017
17-1	Socket cap screw	M8*20	4	SP-4605-17-1
18	Inner Hexagon Socket Head Bolt	M6*16	2	SP-4605-018
18-1	Socket cap screw	M10*50	1	SP-4605-18-1
19	Inner Hexagon Socket Head Bolt	M8*20	2	SP-4605-019
19-1	Socket cap screw	M12*30	4	SP-4605-19-1
20	Inner Hexagon Socket Head Bolt	M10*35	4	SP-4605-020
21	Inner Hexagon Socket Head Bolt	M10*55	2	SP-4605-021
21-1	Spring washer	M6	3	SP-4605-21-1
22	Spring washer	M6	2	SP-4605-022
22-1	Spring washer	M8	10	SP-4605-22-1
23	Spring washer	M8	2	SP-4605-023
23-1	Spring washer	M12	4	SP-4605-23-1
24	Spring washer	M10	4	SP-4605-024
25	Flat washer	Φ12*Φ6.4*1.6	2	SP-4605-025
25-1	Big washer	Φ24*Φ8.4*2	2	SP-4605-25-1
26	Flat washer	Φ16*Φ8.4*1.6	6	SP-4605-026
26-1	Flat washer	Φ12*Φ6.4*1.6	3	SP-4605-26-1
27	Flat washer	Φ20*Φ10.5*2	8	SP-4605-027
27-1	Flat washer	Φ16*Φ8.4*1.6	8	SP-4605-27-1
28	Nylon nut	M10	2	SP-4605-028
28-1	Flat washer	Φ20*Φ10.5*2	11	SP-4605-28-1
29	Rivet nut with small countersunk head	M8*18	4	SP-4605-029
29-1	Flat washer	Φ24*Φ13*2.5	4	SP-4605-29-1
30	Nut	M10	4	SP-4605-030
33	Main frame		1	SP-4605-033
35	Rotating frame		1	SP-4605-035
36	Cam frame		1	SP-4605-036
37	Adjusting frame		1	SP-4605-037
38	Swing rack		1	SP-4605-038
39	Leg press frame		1	SP-4605-039
40	Kick stand		1	SP-4605-040
41	Left handle frame		1	SP-4605-041
43	Adjusting rod		1	SP-4605-043
44	Right handle frame		1	SP-4605-044
45	Shaft I		1	SP-4605-045
46	Shaft II		1	SP-4605-046
47	Adjusting column		1	SP-4605-047
48	Adjusing plate		1	SP-4605-048
49	Block ring		1	SP-4605-049
50	Left adjusting patch		1	SP-4605-050
51	Right adjusting patch		1	SP-4605-051
52	Balance weight		1	SP-4605-052
53	Rod shaft		1	SP-4605-053
54	Torsion spring		1	SP-4605-054
55	Spring		1	SP-4605-055
56	Spring		1	SP-4605-056
57	Adjusting handle		1	SP-4605-057
58	Fixed shaft		1	SP-4605-058
59	Reed nut	M6*Φ20.8*10	3	SP-4605-059
60	Handle gloves with through -hole		3	SP-4605-060

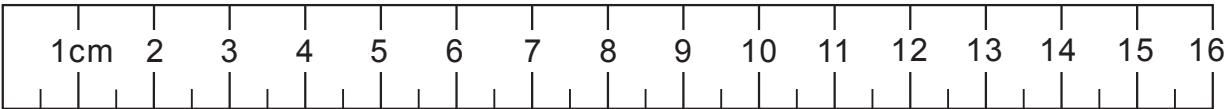
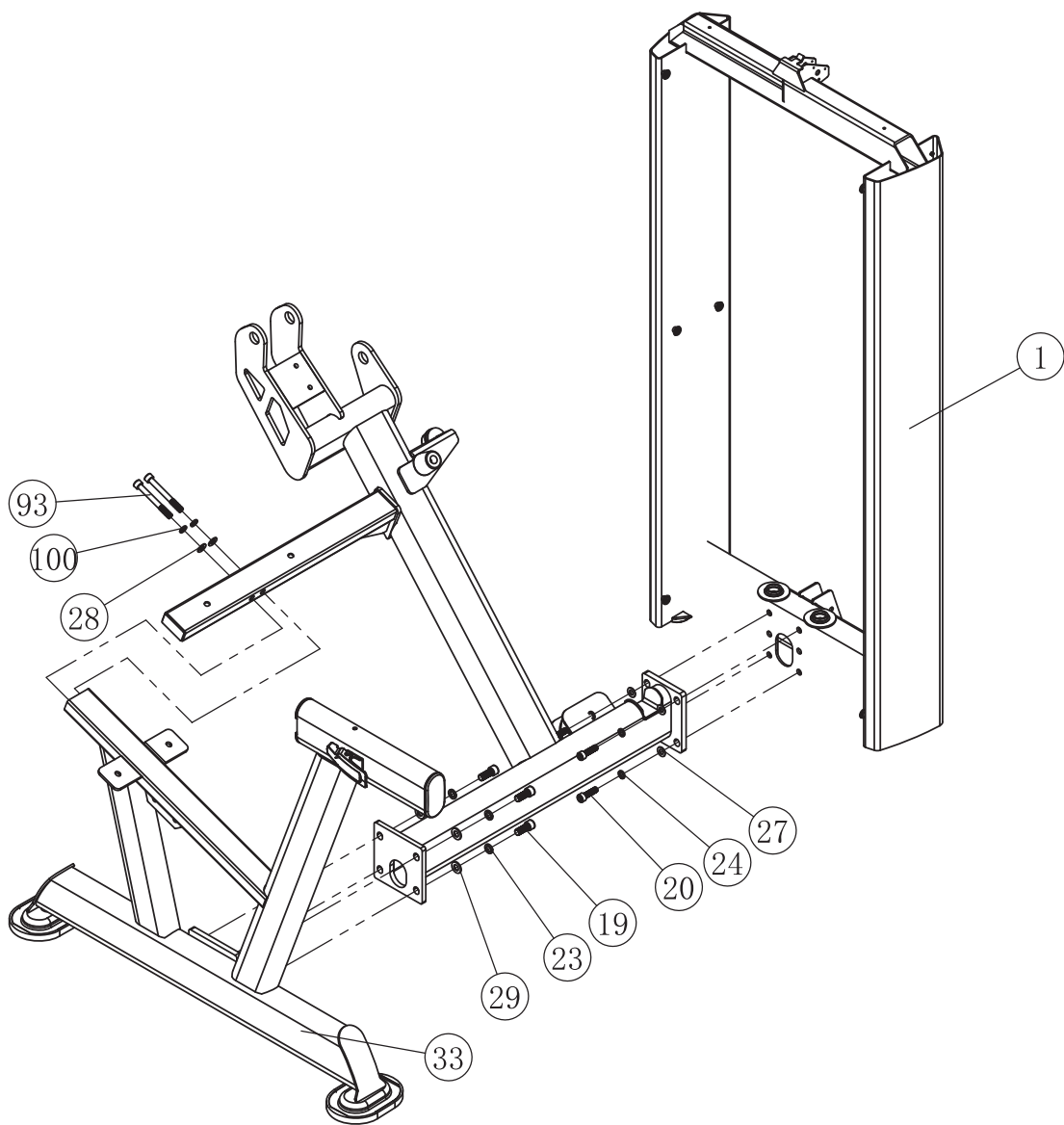
Parts List

No.	Description	Spec	Qty	Part No.
61	Cushion		1	SP-4605-061
63	Cushion		2	SP-4605-063
64	Rotary position sleeve		1	SP-4605-064
66	Ground rubber pad		2	SP-4605-066
67	Iron base metallurgy sleeve		2	SP-4605-067
68	Metallurgy set		2	SP-4605-068
69	Pull up a knob		1	SP-4605-069
70	Block and tackle		1	SP-4605-070
71	Wide block and tackle		1	SP-4605-071
72	Roller link header		1	SP-4605-072
73	M20 nut		1	SP-4605-073
74	Step rolling bearing		8	SP-4605-074
79	Aluminum plate		2	SP-4605-079
80	Aluminum plate		1	SP-4605-080
81	Pipe plug		1	SP-4605-081
82	cushion		1	SP-4605-082
83	Wire group		1	SP-4605-083
84	20 lb select iron components		1	SP-4605-084
85	10 lb counterweight components		1	SP-4605-085
86	20 lb select iron components		13	SP-4605-086
88	cross recessed countersunk head screw	M5*10	4	SP-4605-088
89	Socket cap screw	M10*25	6	SP-4605-089
90	Socket cap screw	M10*35	2	SP-4605-090
91	Socket Flat head screw	M8*25	3	SP-4605-091
92	Socket cap screw	M10*70	1	SP-4605-092
93	Socket cap screw	M10*90	2	SP-4605-093
94	Socket cap screw	M6*10	1	SP-4605-094
95	Socket cap screw	M6*20	2	SP-4605-095
96	Socket cap screw	M6*30	1	SP-4605-096
97	Socket cap screw	M8*30	2	SP-4605-097
98	Socket cap screw	M8*55	2	SP-4605-098
100	Spring washer	M10	10	SP-4605-100
101	Limit screw	M10*18*Φ8	1	SP-4605-101
102	Open ring	d=6	2	SP-4605-102
103	Shaft with elastic retainer	Φ25	5	SP-4605-103
104	Leg pad		2	SP-4605-104
107	15 well selection shaft		1	SP-4605-107
108	Plastic washer		1	SP-4605-108
109	Hexagon socket head screws	M6*25	3	SP-4605-109
110	Aluminum plate		3	SP-4605-110
111	Plastic ring		3	SP-4605-111
112	Aluminum ring		3	SP-4605-112
113	Aluminum baffle ring		3	SP-4605-113
114	Inner hexagon is tightly ended Set screw	M5*5	6	SP-4605-114
115	Support frame		1	SP-4605-115
117	Sliding set		2	SP-4605-117
118	Elliptical pipe plug		1	SP-4605-118
119	Seat pad		1	SP-4605-119
120	Seat pad set		1	SP-4605-120
121	Adjusting frame of back pad		1	SP-4605-121
122	Socket cap screw	M8*40	2	SP-4605-122

Assembly Instructions

STEP 1

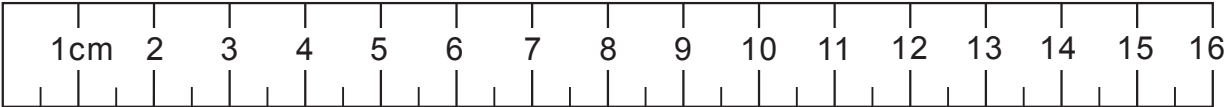
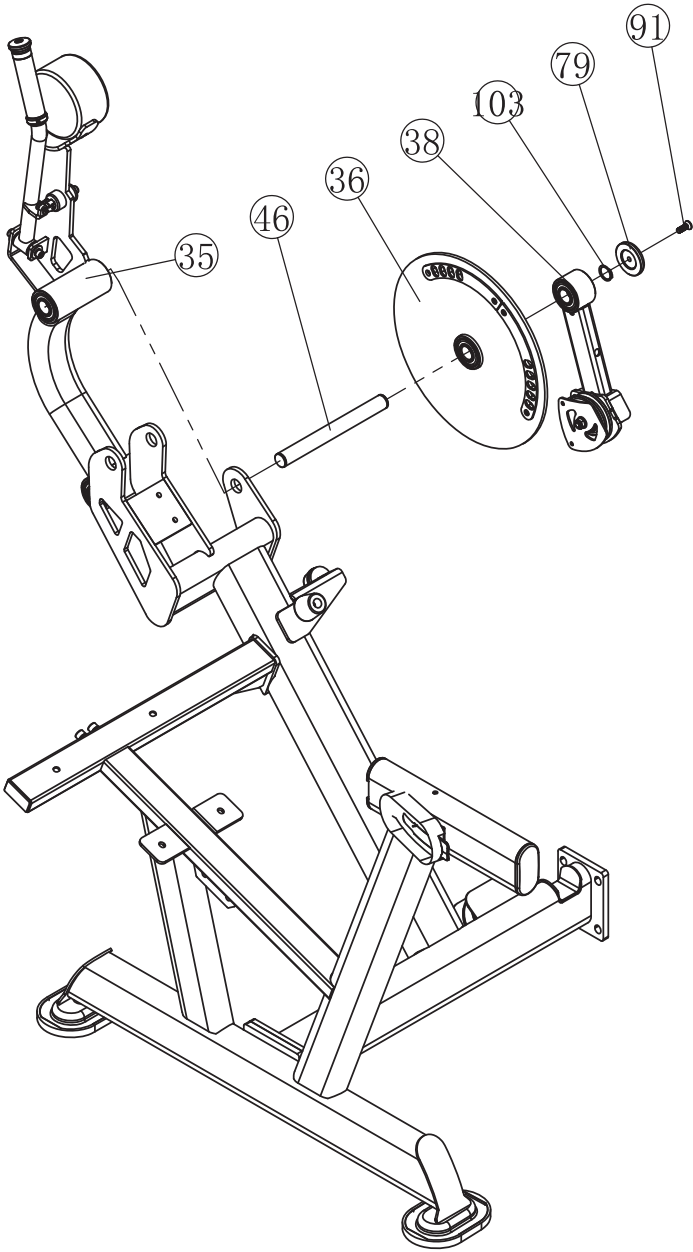
Step	No.	Description	Specifications	Qty
1	1	Door Frame		1
	20	Inner Hexagon Socket Head Bolt	M10*35	4
	24	Spring washer	M10	4
	27	Flat washer	Φ20*Φ10.5*2	4
	19	Inner Hexagon Socket Head Bolt	M8*20	4
	23	Spring washer	M8	4
	28	Nylon nut	M10	2
	29	Rivet nut with small countersunk head	M8*18	4
	33	Main frame		1
	93	Socket cap screw	M10*90	2
	100	Spring washer	M10	2
	115	Support frame		1



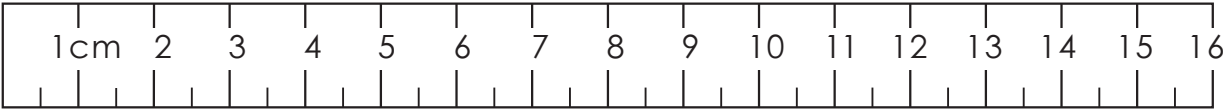
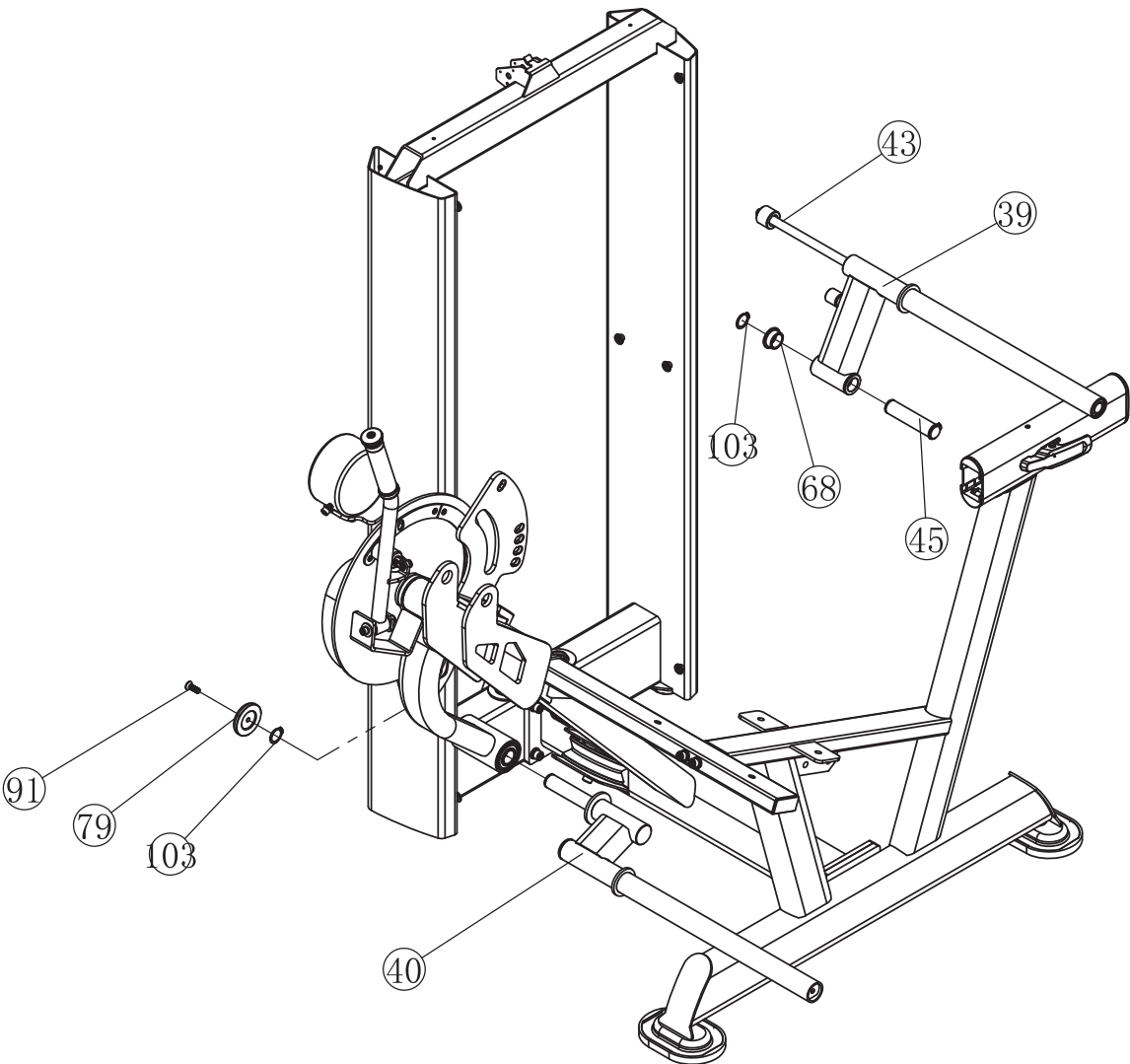
Assembly Instructions

STEP 2

Step	No.	Description	Specifications	Qty
2	33	Main frame		1
	35	Rotating frame		1
	36	Cam frame		1
	38	Swing rack		1
	46	Shaft II		1
	79	Aluminum plate		1
	91	Socket Flat head screw	M8*25	1
	103	Shaft with elastic retainer	Φ25	2



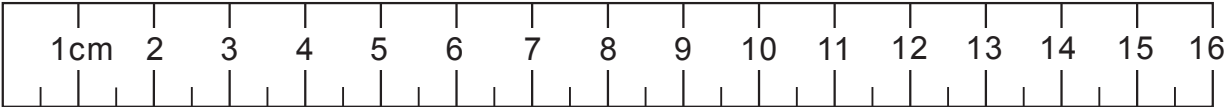
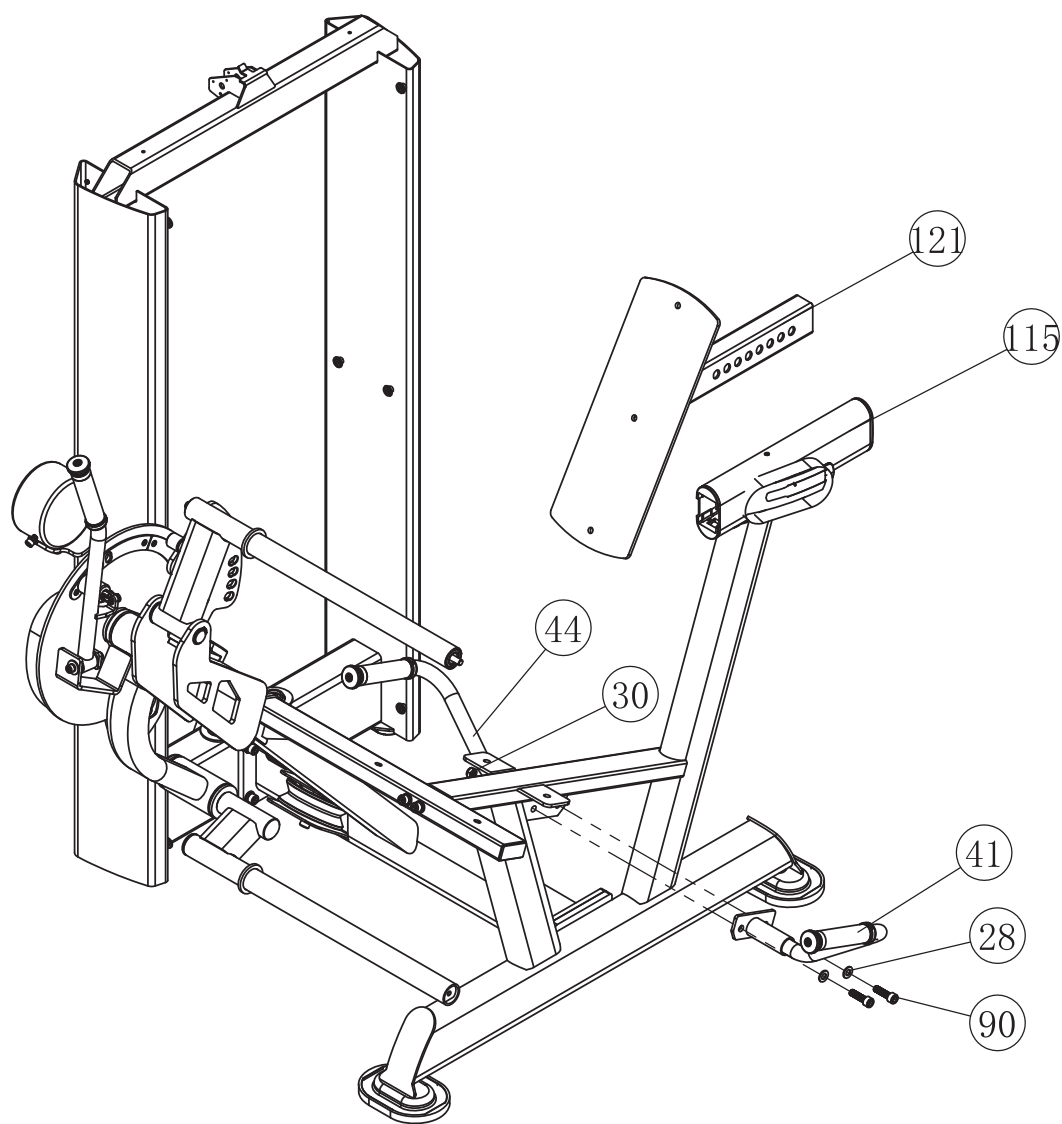
Step	No.	Description	Specifications	Qty
3	39	Leg press frame		1
	40	Kick stand		1
	43	Adjusting rod		1
	45	Shaft I	φ25*112	1
	68	Metallurgy set	Φ38*Φ25*18	2
	79	Aluminum plate	Φ60.5*15	1
	91	Socket Flat head screw	M8*25	1
	103	Shaft with elastic retainer	Φ25	3



Assembly Instructions

STEP 4

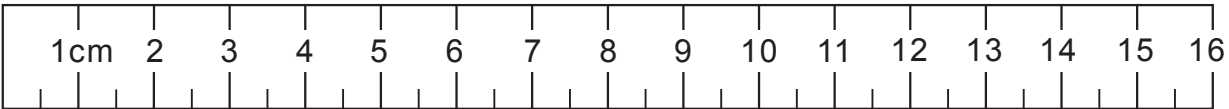
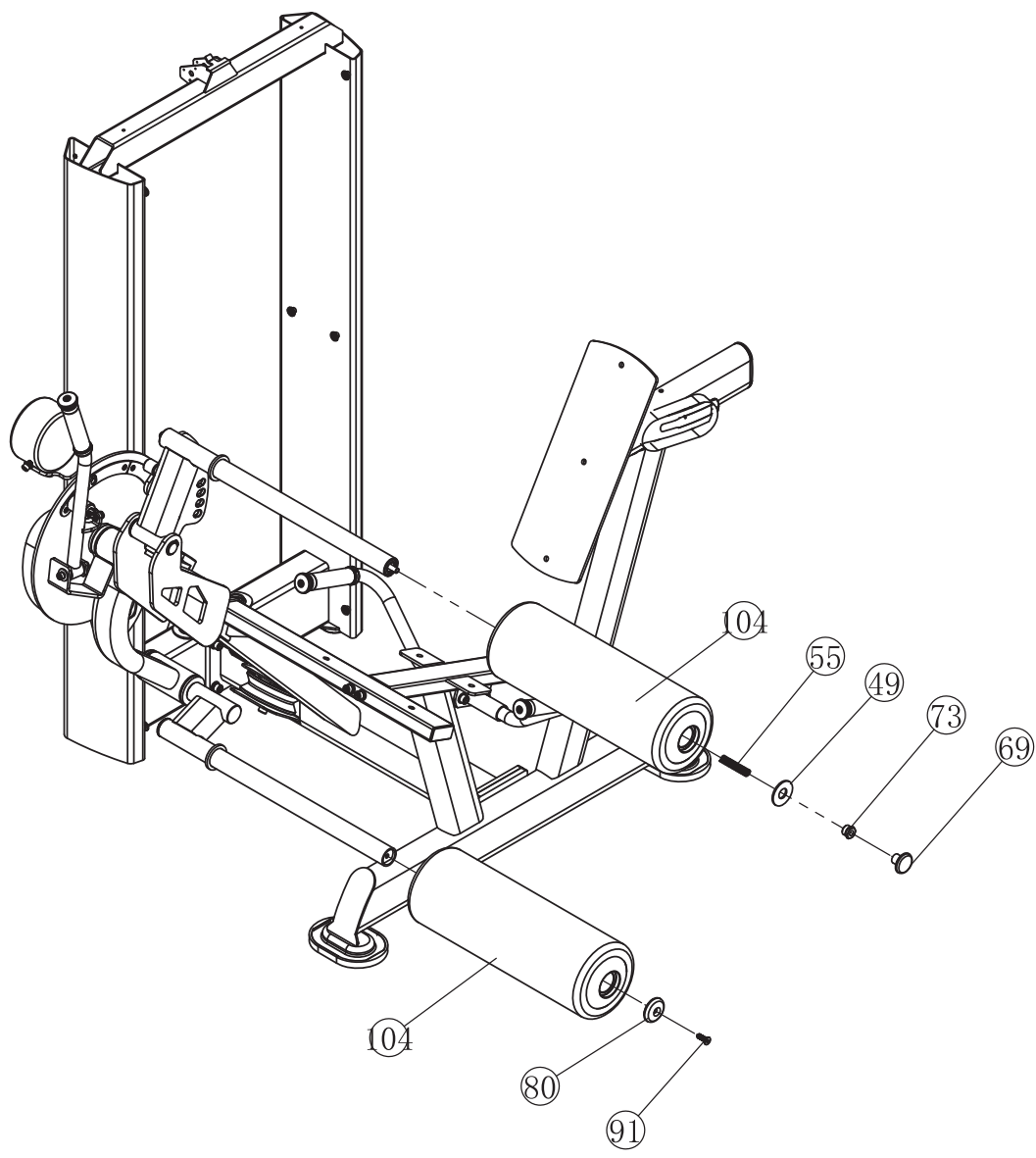
Step	No.	Description	Specifications	Qty
4	28-1	Flat washer	Φ20*Φ10.5*2	4
	30	Nut	M10	2
	41	Left handle frame		1
	44	Right handle frame		1
	90	Socket cap screw	M10*35	2
	115	Support frame		1
	121	Adjusting frame of back pad		1



Assembly Instructions

STEP 5

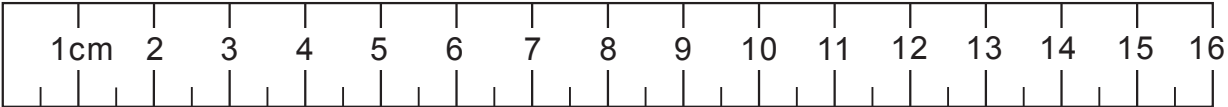
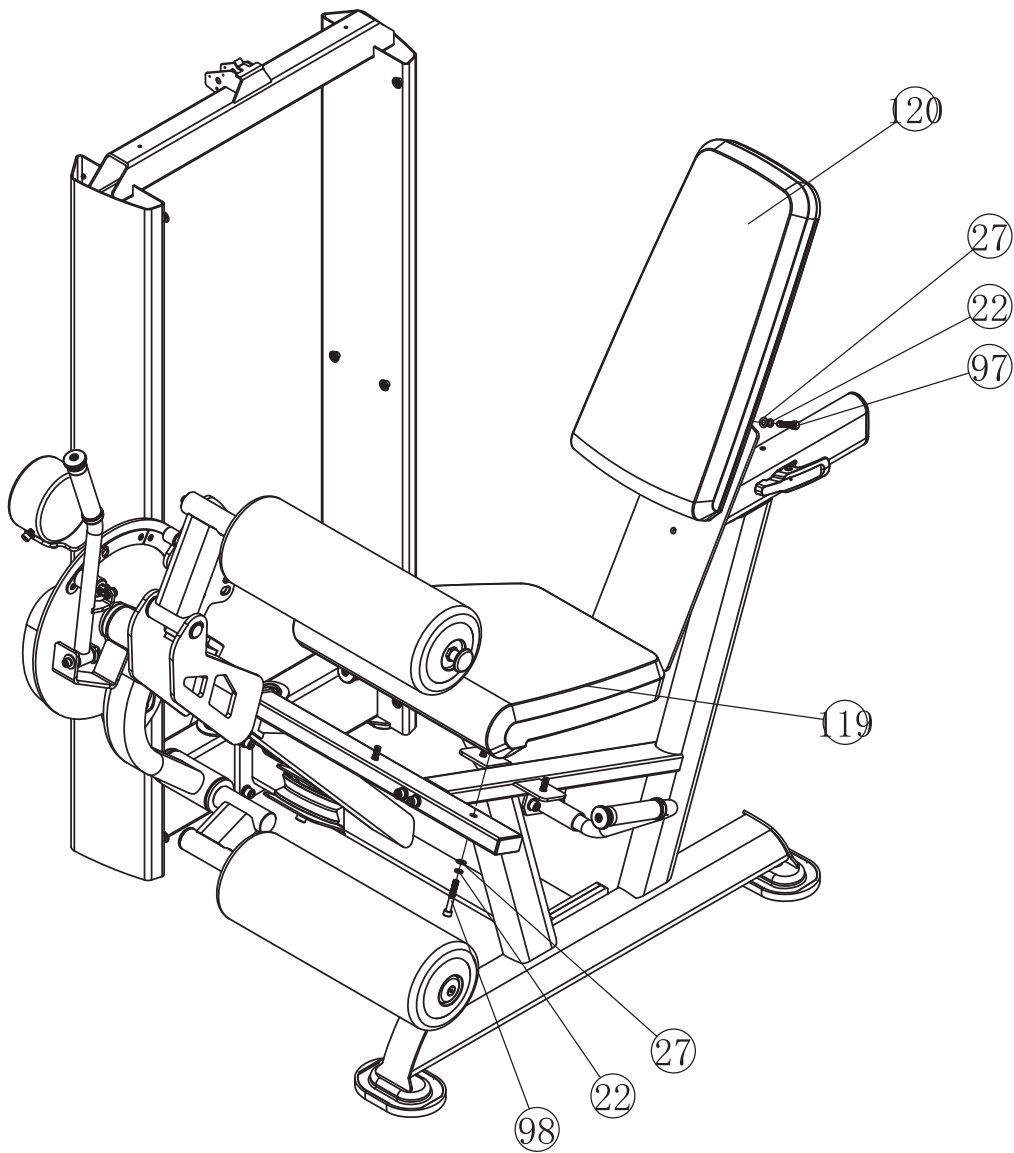
Step	No.	Description	Specifications	Qty
5	49	Block ring		1
	55	Spring		1
	69	Pull up a knob		1
	73	M20 nut		1
	80	Aluminum plate		1
	91	Socket Flat head screw	M8*25	1
	104	Leg pad		2



Assembly Instructions

STEP 6

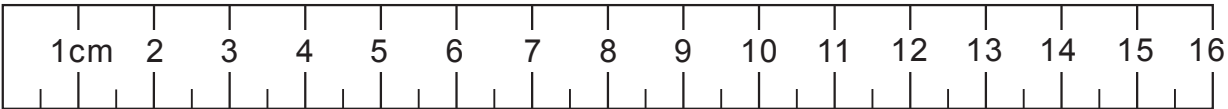
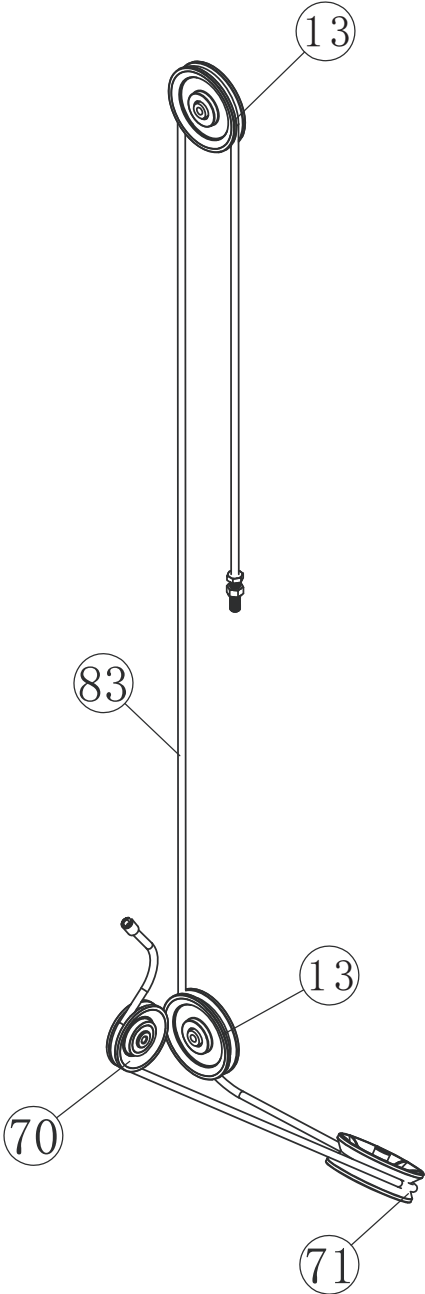
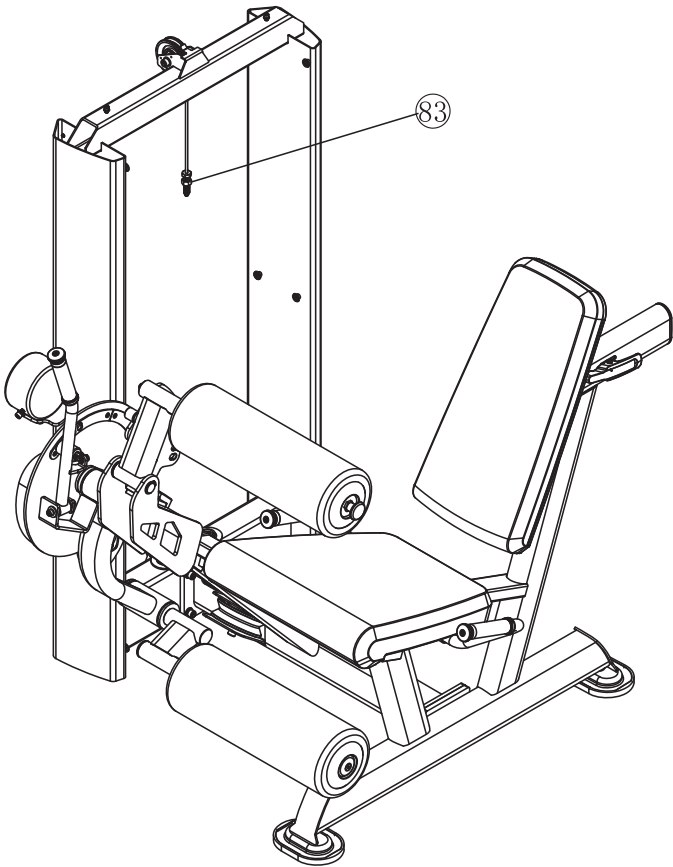
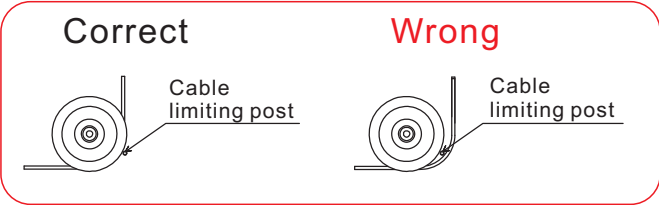
Step	No.	Description	Specifications	Qty
6	22-1	Spring washer	M8	6
	27-1	Flat washer	Φ16*Φ8.4*1.6	6
	97	Socket cap screw	M8*30	2
	98	Socket cap screw	M8*55	2
	119	Seat pad		1
	120	Seat pad set		1
	122	Socket cap screw	M8*40	2



Assembly Instructions

STEP 7

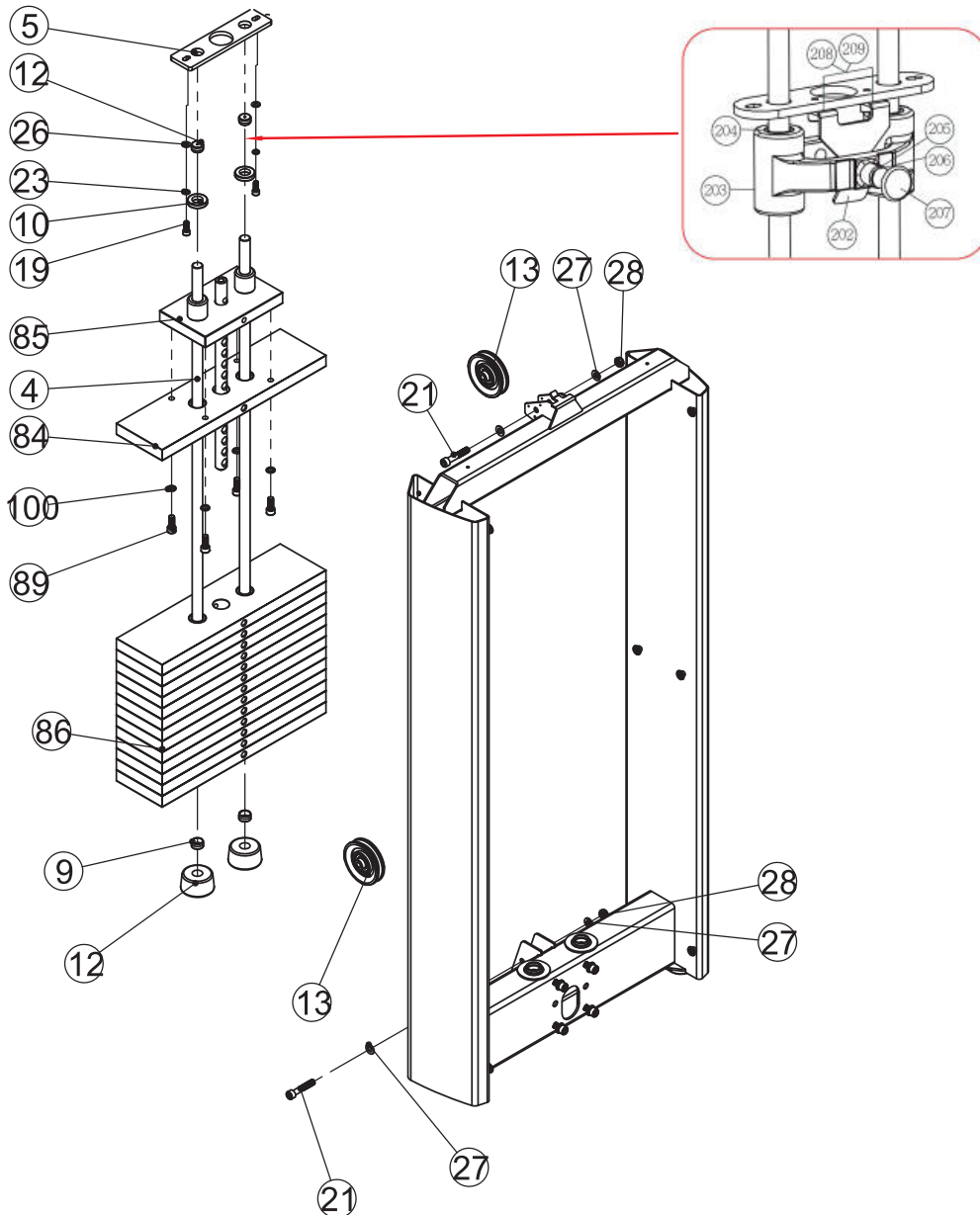
Step	No.	Description	Specifications	Qty
7	13	Selector pin	φ89*32	2
	70	Block and tackle		1
	71	Pipe plug		1
	83	Wire group		1



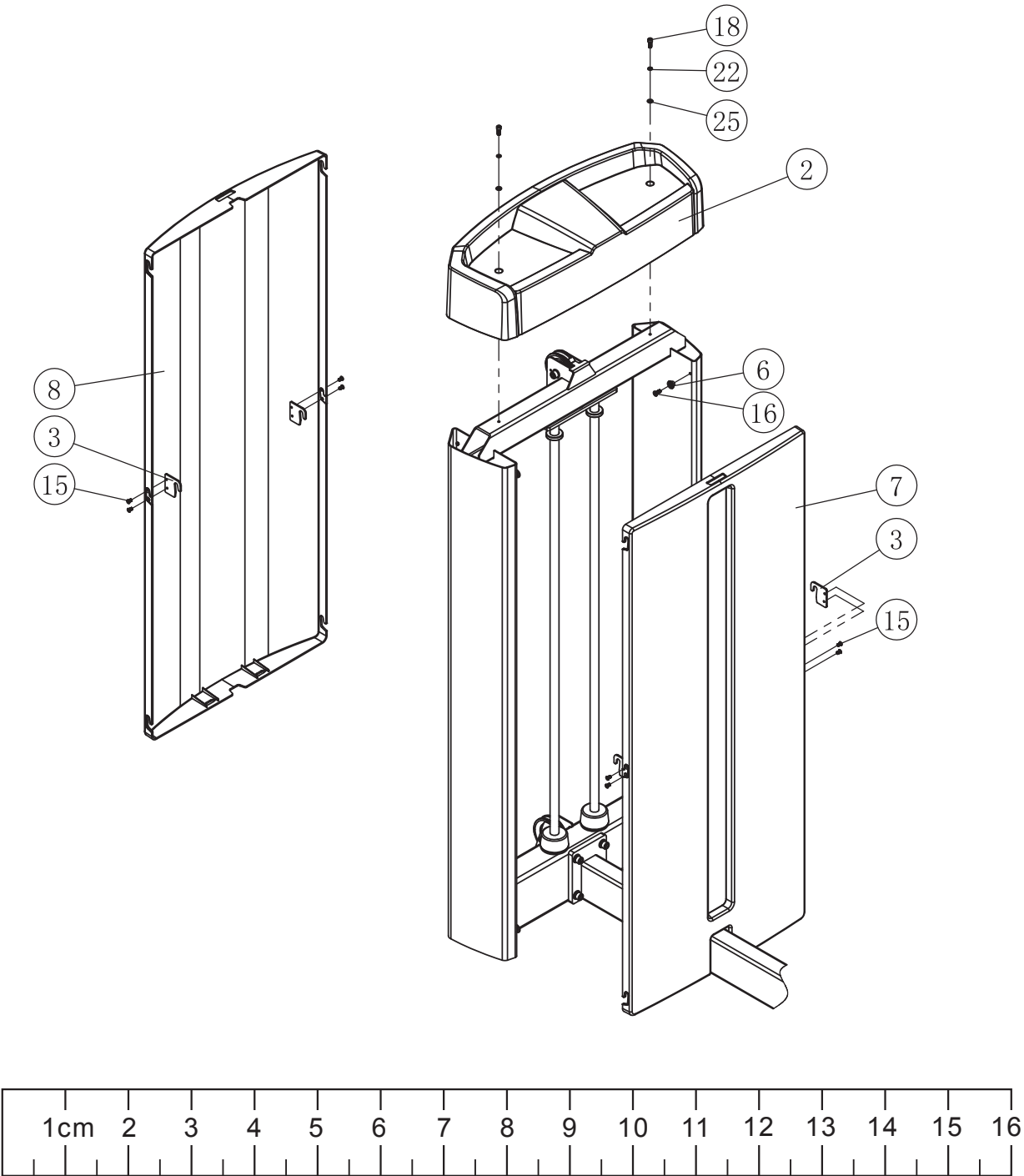
Assembly Instructions

STEP 8

Step	No.	Description	Specifications	Qty
8	4	Guide rod		2
	5	Guide rod fixed plate		1
	9	Rubber bumper	$\phi 64 \times \phi 32 \times \phi 20 \times 35$	2
	10	Rubber bumper	$\phi 38 \times \phi 21 \times 10$	2
	12	Rod end cover		4
	13	Pulley sets	$\phi 89 \times 32$	2
	14	Selector pin		1
	19	Inner Hexagon Socket Head Bolt	M8*20	2
	21	Inner Hexagon Socket Head Bolt	M10*55	2
	23	Spring washer	M8	2
	26	Flat washer	$\Phi 16 \times \Phi 8.4 \times 1.6$	2
	27	Flat washer	$\Phi 20 \times \Phi 10.5 \times 2$	4
	28	Nylon nut	M10	2
	84	20 lb select iron components		1
	85	10 lb counterweight components		1
	86	20 lb select iron components		13

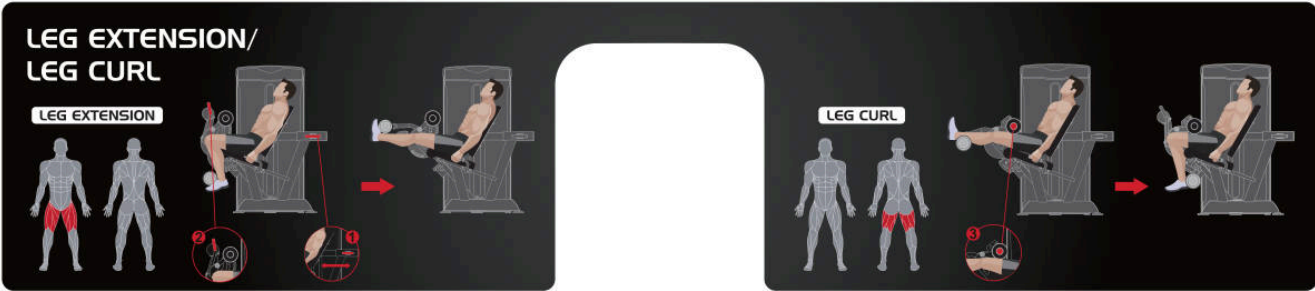


Step	No.	Description	Specifications	Qty
9	2	Upper shield		1
	3	Shield fixed plate		4
	6	Fixed bushing		12
	7	Front shield		1
	8	Back shield		1
	15	cross recessed countersunk head screw	M5*10	8
	16	Countersunk head hexagon socket screw	M6*16	12
	18	Inner Hexagon Socket Head Bolt	M6*16	2
	22	Spring washer	M6	2
	25	Flat washer	Φ12*Φ6.4*1.6	2



START WORKOUT

Warning: Improper use and form on the product might cause injury

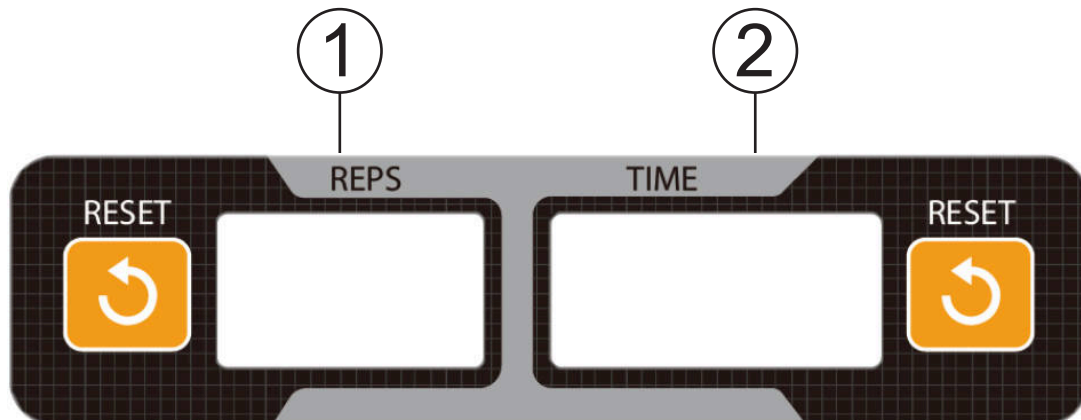


Repetition and Time Counter

A battery-operated console is available for use on SP-43 Series Selectorized Strength Equipment.

The console tracks workout time and number of repetitions per set.

1	Repetition Counter
2	Time Counter

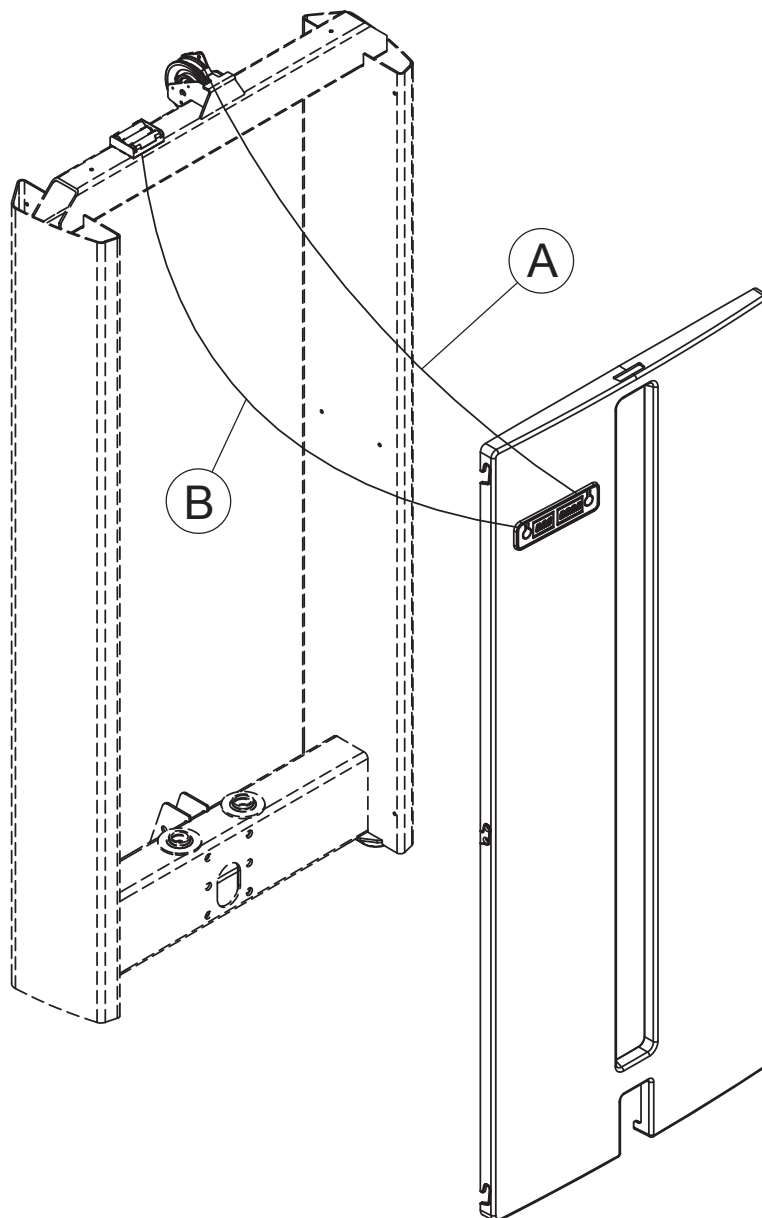


- This counter is powered by 2 pcs of AA batteries.
(Alkaline Battery Recommended)

Troubleshooting

PROBLEM	TROUBLESHOOTING
Display does not turn on when you pickup the weight	• Replace batteries. • Check the magnet is still in position and the reed switch is still positioned next to the magnet. • Check connections at back of console for battery and switch assembly. • Replace the console. NOTE: A console comes with the magnet and reed switch assembly.
Rep counter turns ON when you pick up the head plate but does not count reps.	• Make sure you are doing a full repetition. Magnet must go up past the counter reed switch and back down past it to count ONE repetition. • Check for broken or cut wires. If broken or cut wires found, replace the console. NOTE: Console includes all wiring.

No.	Description	Spec	Qty
A	Dry Reed Pipe Connection Wire		1
B	Power Line		1



Maintenance

A regular preventative maintenance schedule with all fitness equipment ensures that products are working at an optimal condition without affecting the end user exercise experience. To assist in the maintenance regiment, it is recommended to break service into: Daily, Weekly, & Monthly activities. Details on each activity can be found in the “Maintenance” section of this document.

All preventive maintenance activities must be performed on a regular basis. Performing routine preventive maintenance actions can aid in providing safe, trouble-free operation of all SPIRIT equipment. SPIRIT is not responsible for performing regular inspection and maintenance actions for your machines. Instruct all personnel in equipment inspection and maintenance actions and also in accident reporting and recording.

Item	Time Frame	Instructions
Frame	Bi-Annually	Wipe down with lint free cloth.
Belt & Cable	Daily	Wipe down with lint free cloth.
Upholstery	Daily	Wipe down with lint free cloth.
Machine	As Needed	Wipe down with lint free cloth.
Lubricate Guide Rods	As Needed	Apply the Teflon based lubricant to a cotton cloth and then apply up and down the guide rods.

Owner's Manual
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