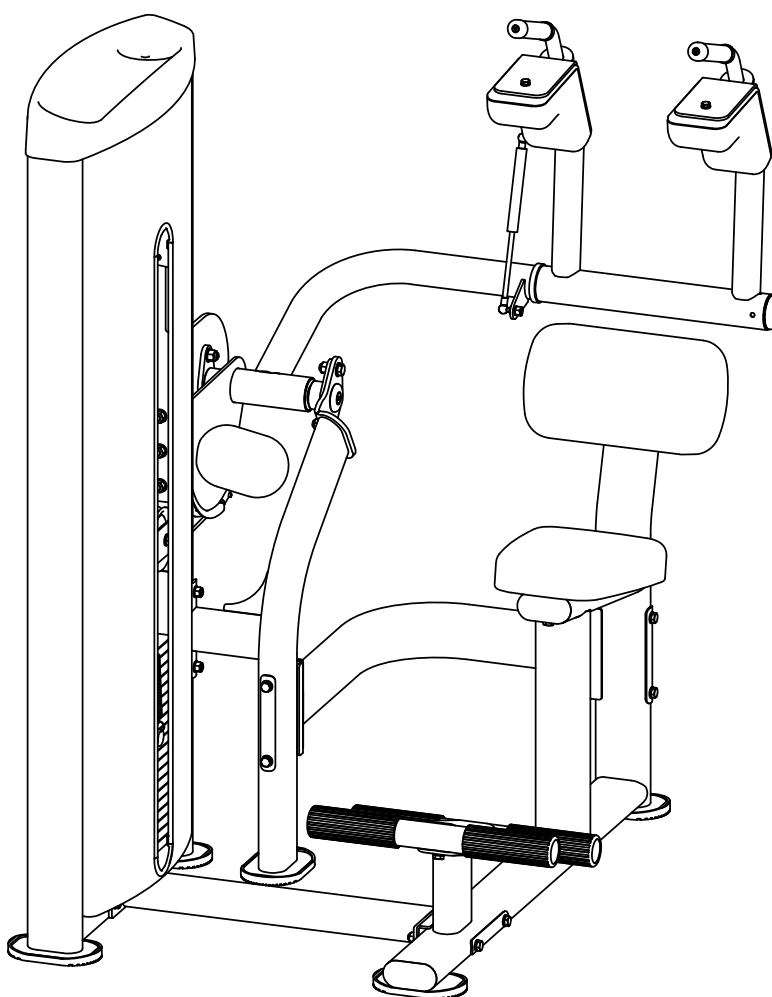


DA027E

ABDOMINAL

OWNER'S MANUAL



! CAUTION

Read all precautions
and instructions in this manual
before using this equipment

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Important Safety Instructions

Before beginning any fitness program, you should obtain a complete physical examination from your physician. When using exercise equipment, basic precautions should always be taken, including the following:

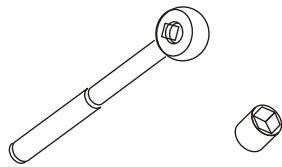
1. Read all instructions before using the equipment.
These instructions are written to ensure your safety and to protect the unit.
2. Use the equipment only for its intended purpose as described in this guide.
Do not use accessory attachments that are not recommended by the manufacturer: such attachments might cause injuries.
3. The product should only be used on a level surface and is with 0.5 meters space around the product.
Do not use the equipment outdoors.
4. Do not allow children on or near the equipment. And children are not allowed to use this equipment.
Teenagers should use this equipment with adult supervision.
5. Do not overexert yourself or work to exhaustion.
Do not attempt to lift more weight than you can control safely.
If you feel any pain or abnormal symptoms, stop your workout immediately and consult your physician.
6. This equipment is not used as medical apparatus and instruments.
7. Never operate the unit when it has been dropped or damaged.
Never drop or insert anything into any opening in the equipment.
Always check the unit and its cables before each use. Make sure that all fasteners and cables are secure and in good working condition.
Frayed or worn cables can be dangerous and may cause injury. Periodically check these cables for any indication of wear.
Keep hands, limbs, loose clothing and long hair well out of the way of moving parts.
8. Be careful when getting on or off the equipment.
9. Wear proper exercise clothing and shoes for your workout, no loose clothing.

Instructions

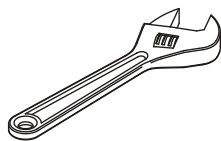
Before beginning assembly please take the time to read instructions thoroughly. Please use the various lists in this manual to make sure that all parts have been included in your shipment. When ordering, use part number and description from the lists. Use only our replacement part when servicing. Failure to do so will void your warranty and could result in personal injury.

The equipment is designed to provide the smoothest, most effective exercise motion possible. After assembly, you should check all functions to ensure correct operation. If you experience problems, first recheck the assembly instructions to locate any possible errors made during assembly. If you are unable to correct the problem, call your authorized dealer. Be sure to have your serial number and this manual when calling. When all parts have been accounted for, continue on.

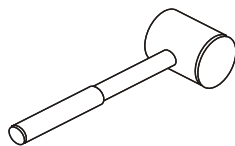
Tools Required



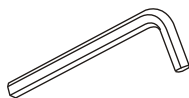
Ratchet Wrench and Socket



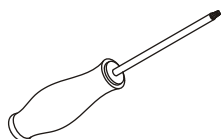
Adjustable Wrench



Rubber Mallet



Hex Key Wrench Set



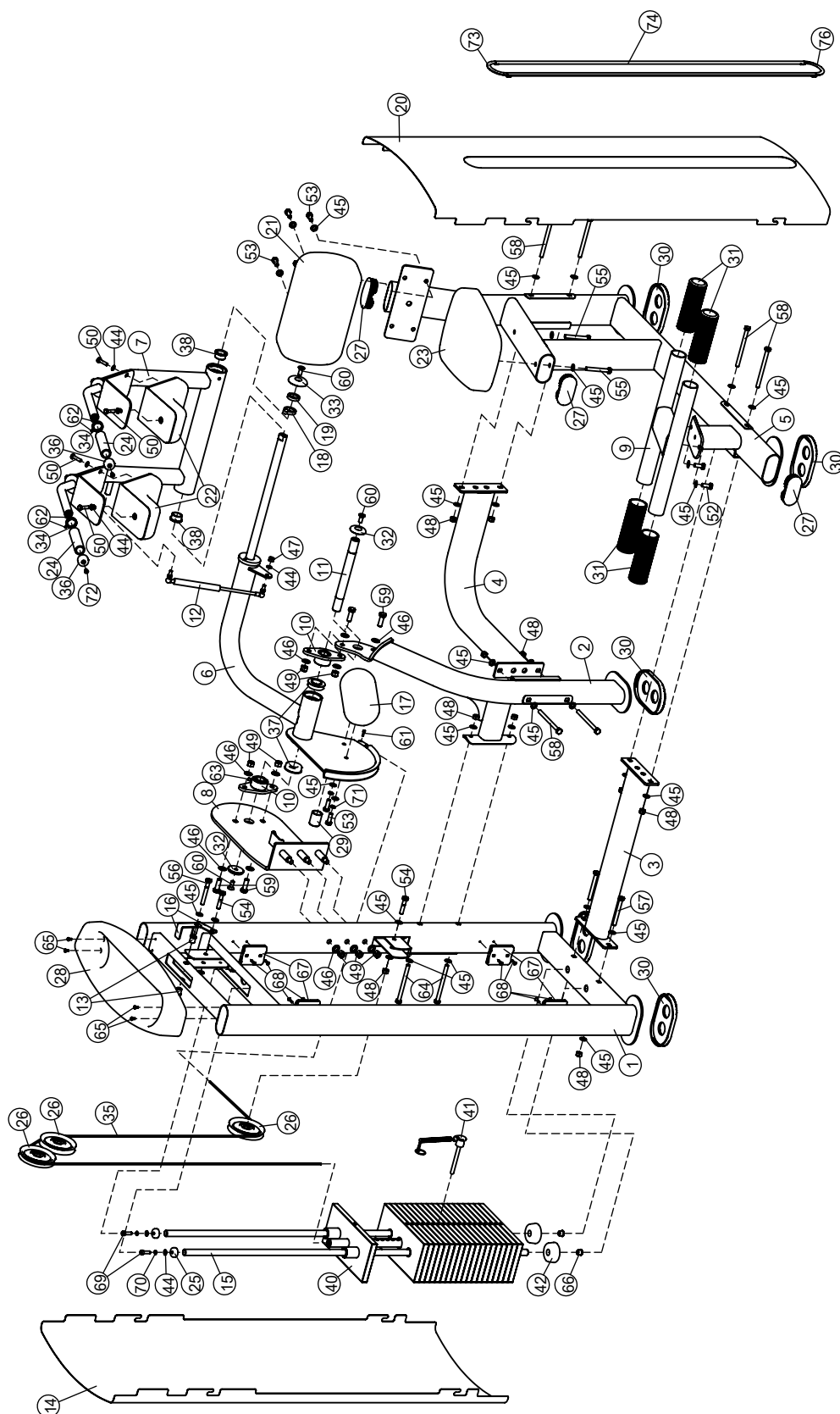
Phillips Screwdriver

Parts List

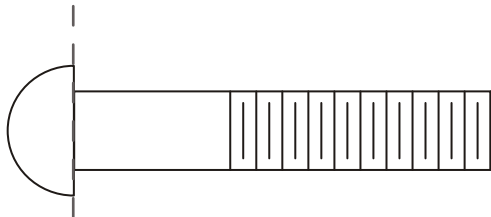
NOTE: SOME OF THESE PARTS MAY COME PRE-INSTALLED.

Item No.	Description	Qty	Item No.	Description	Qty
1	Weight Stack Frame	1	38	Bushing $\phi 38 \times \phi 25.4 \times 18$	2
2	Support Frame	1	40	Top Plate	1
3	Bottom Cross Brace	1	41	Selector Pin W/Coil	1
4	Top Cross Brace	1	42	Weight Rubber Bumper	2
5	Main Frame	1	44	Flat Washer $\phi 9 \times \phi 16 \times 1.6$	9
6	Cam Frame	1	45	Flat Washer $\phi 11 \times \phi 20 \times 2$	35
7	Rotating Frame	1	46	Flat Washer $\phi 24 \times \phi 13 \times 1.5$	11
8	Main Bracket	1	47	Nylon Lock Nut M8	1
9	Foot Frame	1	48	Nylon Lock Nut M10	13
10	Flange	2	49	Nylon Lock Nut M12	7
11	Shaft $\phi 25.4 \times 251$	1	50	Hex Head Bolt M8 $\times$ 30	6
12	Gas Spring QD18-304-40KG	1	52	Hex Head Bolt M10 $\times$ 25	2
13	Spacer Bush	2	53	Hex Head Bolt M10 $\times$ 30	6
14	Rear Shroud	1	54	Hex Head Bolt M10 $\times$ 50	2
15	Guid Rod	2	55	Hex Head Bolt M10 $\times$ 75	2
16	L Bracket	2	56	Hex Head Bolt M10 $\times$ 80	1
17	Counter Poise Block	1	57	Hex Head Bolt M10 $\times$ 90	2
18	Locking Ring	1	58	Hex Head Bolt M10 $\times$ 130	6
19	Spacer Sleeve	1	59	Hex Head Bolt M12 $\times$ 35	4
20	Front Shroud	1	60	Flat Head Cap Screw M10 $\times$ 25	3
21	Back Pad	1	61	Socket Head Cap Screw M4 $\times$ 15	1
22	Shoulder Pad	2	62	Socket Set Screw M5 $\times$ 3	4
23	Seat Pad	1	63	Socket Set Screw M8 $\times$ 10	4
24	Grip	2	64	Hex Head Bolt M10 $\times$ 125	2
25	Rubber Sleeve	2	65	Cross Recessed Pan Head Screw M5 $\times$ 15	4
26	4.5" Pulley	3	66	Rubber Plug $\phi 18.5 \times \phi 15 \times 12$	2
27	Plug PT50 $\times$ 100	3	67	Shroud Clip	4
28	Top Shroud	1	68	Philips Countersunk Head Screw M5 $\times$ 20	8
29	Bumper $\phi 32 \times \phi 25.4 \times 40$	1	69	Socket Head Cap Screw M8 $\times$ 25	2
30	Foot Cover	5	70	Spring Washer $\phi 8$	2
31	Bubber Plug	4	71	Spring Washer $\phi 10$	2
32	Aluminum End Cap $\phi 50 \times 8$	2	72	Flat Head Cap Screw M6 $\times$ 16	2
33	Aluminum End Cap $\phi 60 \times \phi 10.5 \times 10$	1	73	Inner Cover Upper Strip	1
34	Aluminum Ring $\phi 33 \times \phi 26.8 \times 9.5$	2	74	Inner Cover Edge Strip	2
35	Cable	1	75	Lube	1
36	Aluminium Cap $\phi 32.5 \times \phi 26 \times 19$	2	76	Inner Cover Lower Strip	1
37	Flange Bearing $\phi 50.8 \times \phi 25.4 \times 15.9$	2			

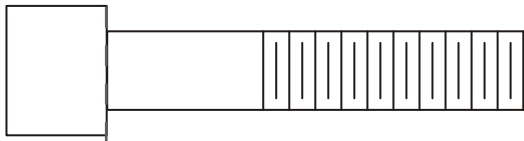
Exploded View



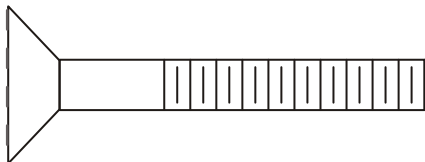
Measurement Guide



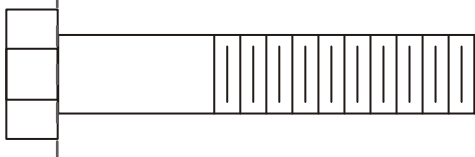
BHCS = Button Head Cap Screw



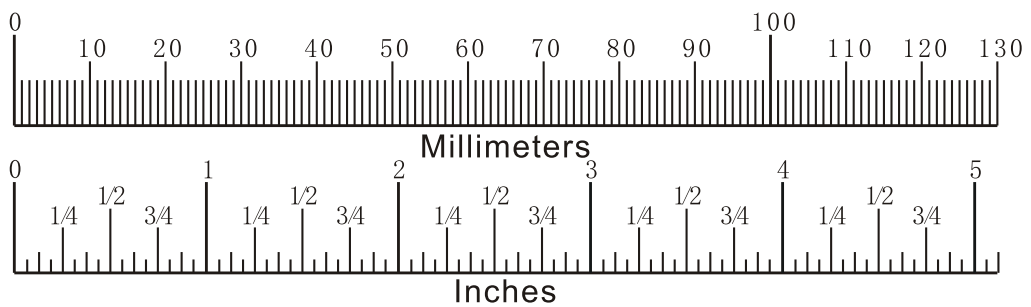
SHCS = Socket Head Cap Screw



FHCS = Flat Head Cap Screw



HHB = Hex Head Bolt



Assembly Instructions

Assembly of the equipment takes professional installers about 2 hours. If this is the first time you have assembled this type of equipment, plan to spend more time. It is strongly recommended to assemble the equipment by professional installers. You may find it quicker, safer, easier to assemble this equipment with the help of a friend, as some of components may be large, heavy or awkward to handle alone. It is important that you assemble your product in a clean, clear, uncluttered area. This will enable you to move around the product while you are fitting components and reduce the possibility of injury during assembly.

NOTE

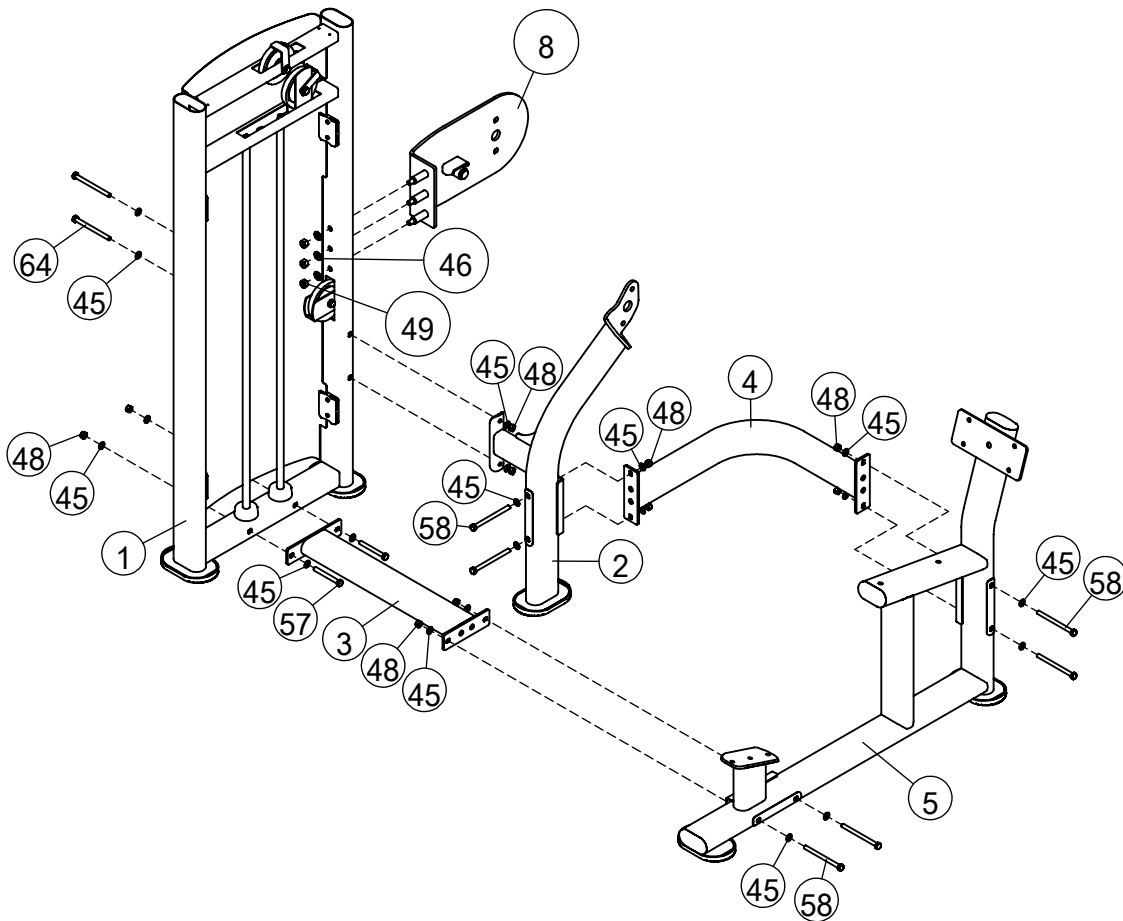
As with any assembled part, proper alignment and adjustment is critical. While tightening the fasteners, be sure to leave room for adjustments. Do not fully tighten the fasteners until instructed to do so. Be careful to assemble the components in the sequence presented in this guide.

Assembly

STEP 1

Note: Hand Tighten Bolts and Nylon Lock Nuts.

Item.	Description	Qty	Item.	Description	Qty
1	Weight Stack Frame	1	46	Flat Washer $\phi 24 \times \phi 13 \times 1.5$	3
2	Support Frame	1	48	Nylon Lock Nut M10	10
3	Bottom Cross Brace	1	49	Nylon Lock Nut M12	3
4	Top Cross Brace	1	57	Hex Head Bolt M10 $\times$ 90	2
5	Main Frame	1	58	Hex Head Bolt M10 $\times$ 130	6
8	Main Bracket	1	64	Hex Head Bolt M10 $\times$ 125	2
45	Flat Washer $\phi 11 \times \phi 20 \times 2$	20			

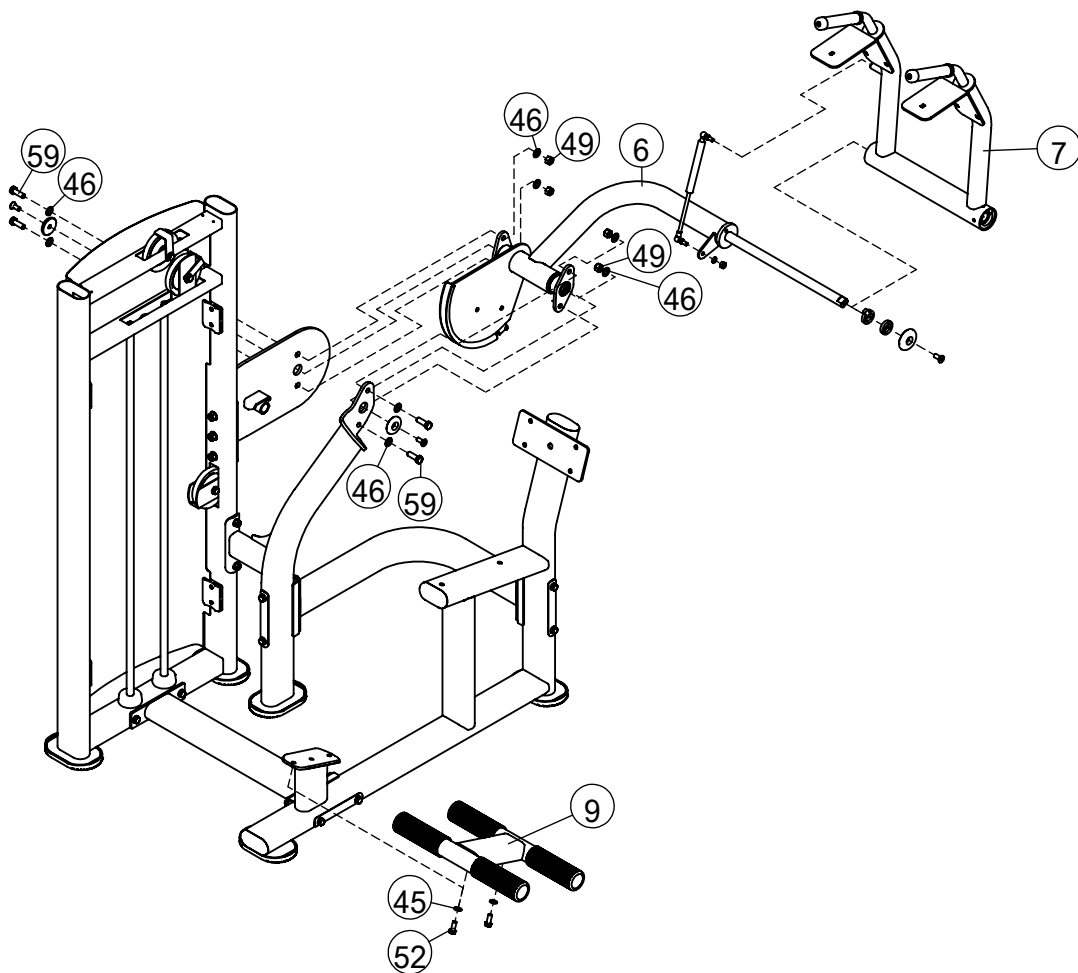


Assembly

STEP 2

Note: Hand Tighten Bolts and Nylon Lock Nuts.

Item.	Description	Qty	Item.	Description	Qty
6	Cam Frame	1	46	Flat Washer $\phi 24 \times \phi 13 \times 1.5$	8
7	Rotating Frame	1	49	Nylon Lock Nut M12	4
9	Foot Frame	1	52	Hex Head Bolt M10 $\times$ 25	2
45	Flat Washer $\phi 11 \times \phi 20 \times 2$	2	59	Hex Head Bolt M12 $\times$ 35	4

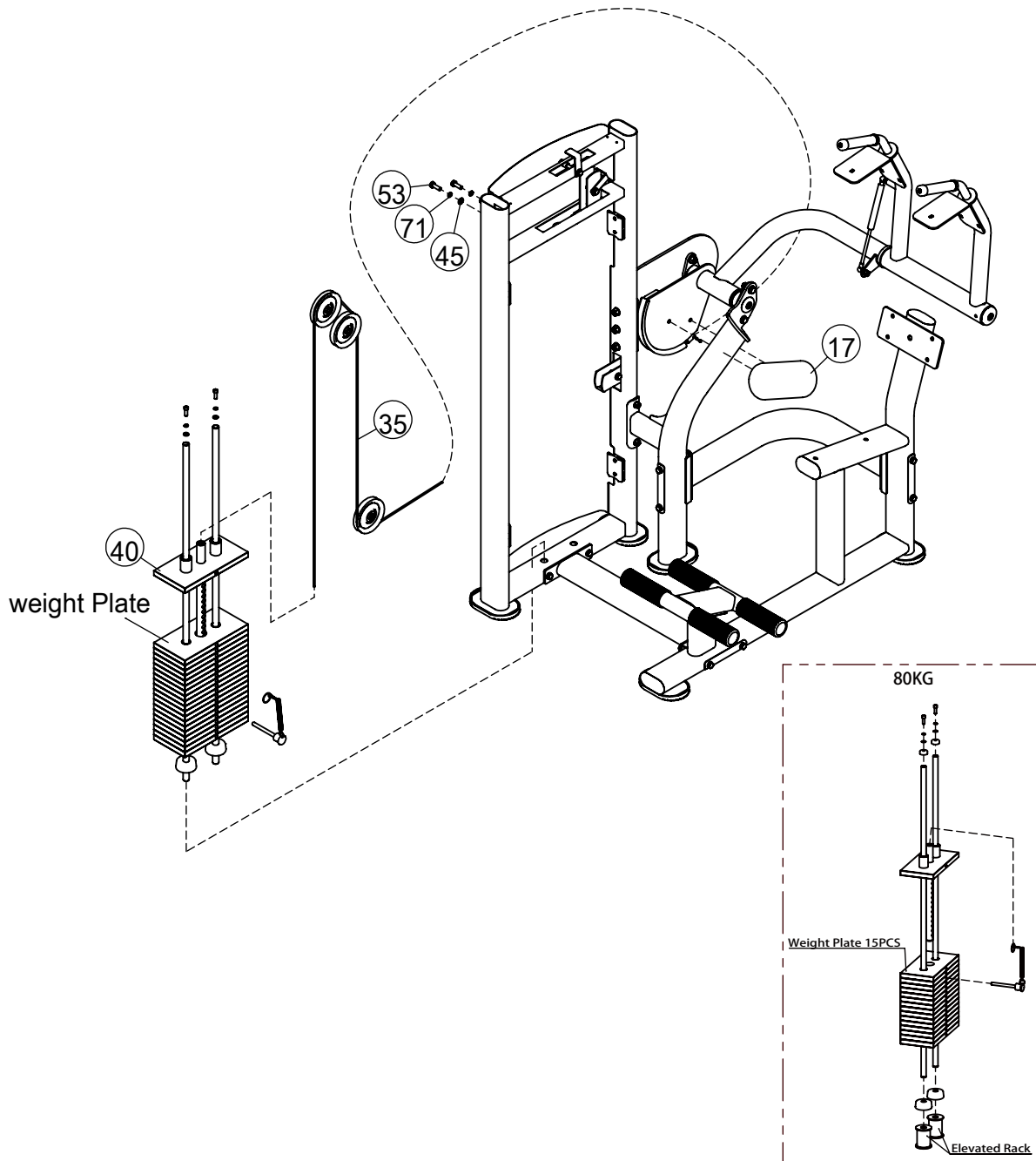


Assembly

STEP 3

Note: Hand Tighten Bolts and Nylon Lock Nuts.

Item.	Description	Qty	Item.	Description	Qty
17	Counter Poise Block	1	45	Flat Washer $\phi 11 \times \phi 20 \times 2$	2
35	Cable	1	53	Hex Head Bolt M10 $\times$ 30	2
40	Top Plate	1	71	Spring Washer $\phi 10$	2

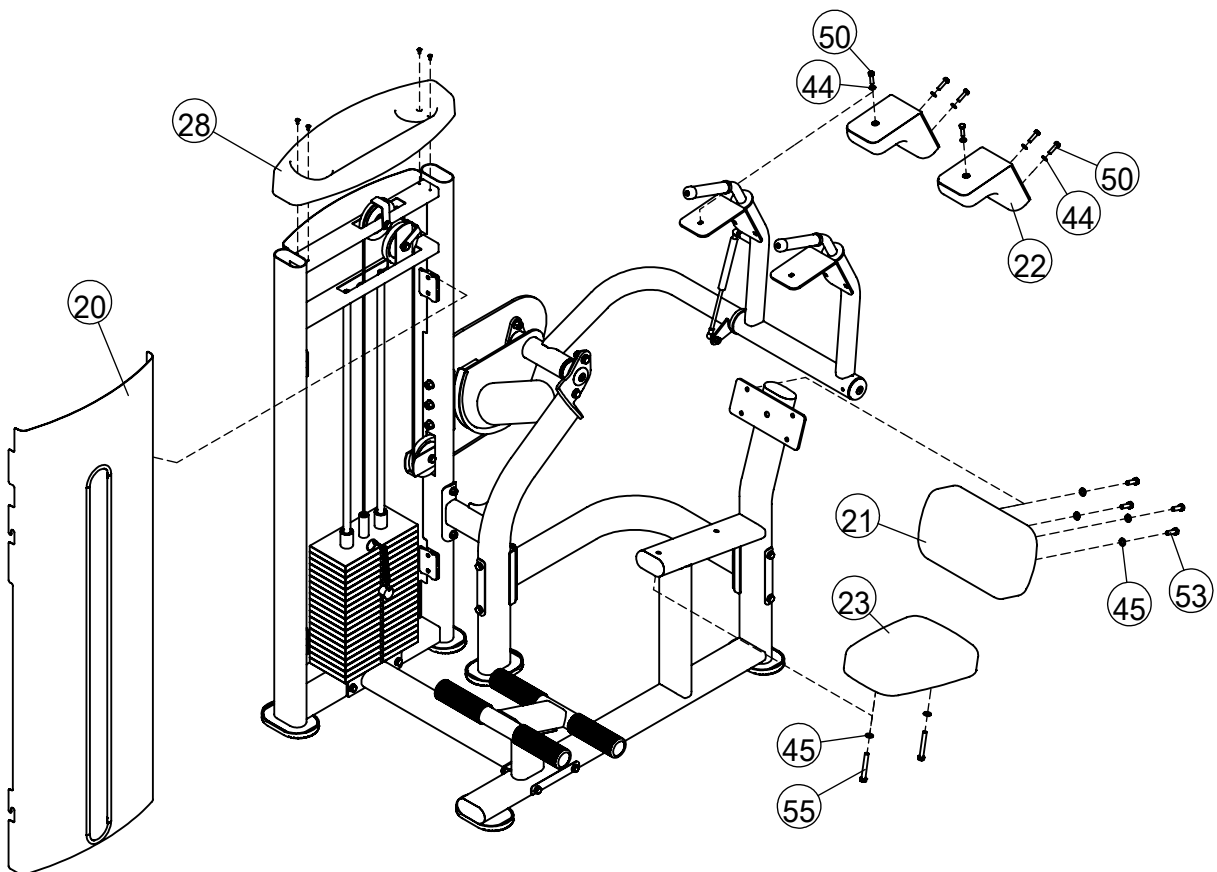


Assembly

STEP 4

Note: Wrench Tighten Screws.

Item.	Description	Qty	Item.	Description	Qty
20	Front Shroud	1	45	Flat Washer $\phi 11 \times \phi 20 \times 2$	6
21	Back Pad	1	50	Hex Head Bolt M8 $\times 30$	6
22	Shoulder Pad	2	53	Hex Head Bolt M10 $\times 30$	4
28	Top Shroud	1	55	Hex Head Bolt M10 $\times 75$	2
44	Flat Washer $\phi 9 \times \phi 16 \times 1.6$	6			



Maintenance Schedule

ROUTINE	COMMERCIAL MAINTENANCE	HOME MAINTENANCE	LATEST DATE ENTRY					
Inspect; Links, Pull Pins, Snap Locks, Swivels, Weight Stack Pins	DAILY	WEEKLY						
Clean; Upholstery	DAILY	WEEKLY						
Inspect; Cables or Belts and their tension	DAILY	WEEKLY						
Inspect; Accessory Bars, and Handles	WEEKLY	3 MONTHS						
Inspect; All Decals	WEEKLY	3 MONTHS						
Inspect; All Nuts and Bolts, Tighten if needed	WEEKLY	3 MONTHS						
Inspect; Anti-Skid Surface	WEEKLY	3 MONTHS						
Clean & Lubricate; Guide Rods with a Teflon (PTFE) based lubricant (Superlube)	MONTHLY	3 MONTHS						
Lubricate; Seat Sleeves, Turcite Bushings, Linear Bearing	MONTHLY	3 MONTHS						
Clean and Wax; All Glossy Finishes	6 MONTHS	YEARLY						
Repack with Grease; Linear Bearings	6 MONTHS	YEARLY						
Replace; Cables, Belts and Connecting Parts	YEARLY	3 YEARS						

Your equipment comes with a commercial maintenance decal. For personal, in home use, please follow the home maintenance schedule listed above.

General Maintenance Information

Links, Pull-Pins, Snap Hooks, Swivels, Weight Stack Pins:

- * Check all pieces for signs of visible wear or damage.
- * Check springs in snap hooks and pull-pins for proper tension and alignment.
- * If the spring sticks or has lost its rigidity, replace it immediately.

Upholstery:

- * To ensure prolonged upholstery life and proper hygiene, all upholstered pads should be wiped down with a damp cloth after every workout.
- * Periodically take the time to use a mild soap or an approved vinyl upholstery cleaner to deter the onset of cracking or drying. Avoid using any abrasive cleaners or cleaners not intended for use on vinyl.
- * Replace ripped or worn upholstery immediately.
- * Keep sharp or pointed objects clear of all upholstery.

Decals:

- * Inspect and familiarize yourself with any safety warnings or other user information posted on each decal.

Nuts and Bolts:

- * Inspect all nuts and bolts for any loosening and tighten if needed.
- * Go through a re-tightening sequence periodically to ensure that all hardware is tensioned proper.

Anti-Skid Surfaces:

- * These surfaces are designed to supply secure footing and need to be replaced if they appear worn or become slippery.

Belts and Cables:

- * We use only high quality belt, and mil-spec cables.
- * Visually inspect the belts and cables for fraying, cracking, peeling or discoloration.
- * While the machine is not in use, carefully run your fingers along the belt or cable to feel for thinning or bulging areas.
- * Replace belts and cables immediately at the first signs of damage or wear. Do not use equipment until belts or cables have been replaced.

Belt and Cable Tension:

- * Referring to the Owners Manual, when belts or cables are used check all bolts attachments to be sure they are properly attached.
- * Check slack in cables and re-adjust cable tension if needed.

Seat Sleeves, Guide Rods:

- * Wipe down adjusting tubes with a dust free rag before applying lubricant.
- * Lubricate seat sleeves and Guide Rods with a Silicon or Teflon based lubricant spray.

Linear Bearings:

- * Referring to the Owners Manual carefully disassemble the bearing from its housing and place a finger full of light grease (lithium, super lube, etc.) into the inside of the bearing. Using your finger, press the grease into the ball-bearings and their tracks. repeat until the ball-bearing tracks are full of grease. Insert the shaft back into the bearing and wipe off excess grease.

PLEASE KEEP THIS FOR YOUR RECORDS

Weight Training Tips

Use this manual to guide you through the basic exercises you can perform on your equipment. To gain maximum results and avoid possible injury, consult a fitness professional to develop your complete exercise program.

Always consult your physician before starting any exercise program.

To be successful in your exercise program, it is important to develop an understanding of the basic principles of strength training. Now that you have your equipment, it is only natural that you want to get started immediately. First, determine a set of realistic goals and objectives for yourself. By deciding on an exercise plan that is right for you prior to starting, you will contribute significantly to your success.

Warm up properly before engaging in weight resistance training. Stretching, yoga, jogging, calisthenics or other cardiovascular exercise can help prepare your body for the heavier workload of lifting weights.

Learn how to perform the exercise correctly before using heavy weight. Correct form is important to avoid injury and to ensure that you work the proper muscle groups.

Know your limitations. If you are new to weight training or are embarking on an exercise regimen after a long layoff, start slowly and build foundational strength over a longer period of time.

Pay attention to your breathing. Exhale when you exert is a general rule of thumb. Never hold your breath.

