

# IF9314

# ABDOMINAL OWNER'S MANUAL

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### **CAUTION!**

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

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Please assemble according to the actual **Weights** you buy!

### **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 0.6 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.

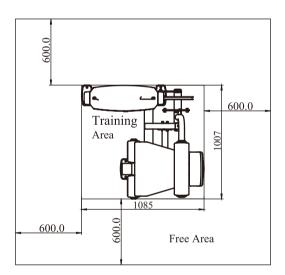
### **Important Safety Instructions**

### **Personal Safety During Assembly**

Read each step in the assembly instructions and follow the steps in sequence. Do not skip ahead. If you skip ahead, you may learn later that you have to disassemble components and that you may have damaged the equipment.

Assemble and operate the equipment on a solid, level surface. Locate the unit a few feet from walls or furniture to provide easy access. The equipment is designed for your enjoyment. By following these precautions and using common sense, you will have many safe and pleasurable hours of healthful exercise with the equipment.

### **Training Area and Free Area**



### **Specifications**

Class: S

Maximum Wt. Capacity: 134kg/ 295lbs
Maximum User Weight: 150kg/ 330lbs
Product Dimension: 1085\*1007\*1530mm
Product Total Surface: 1085\*1007mm

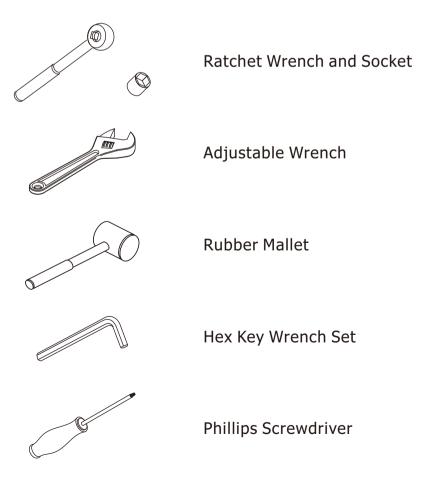
Product Total Mass: 89.5kg/ 197lbs

### **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**

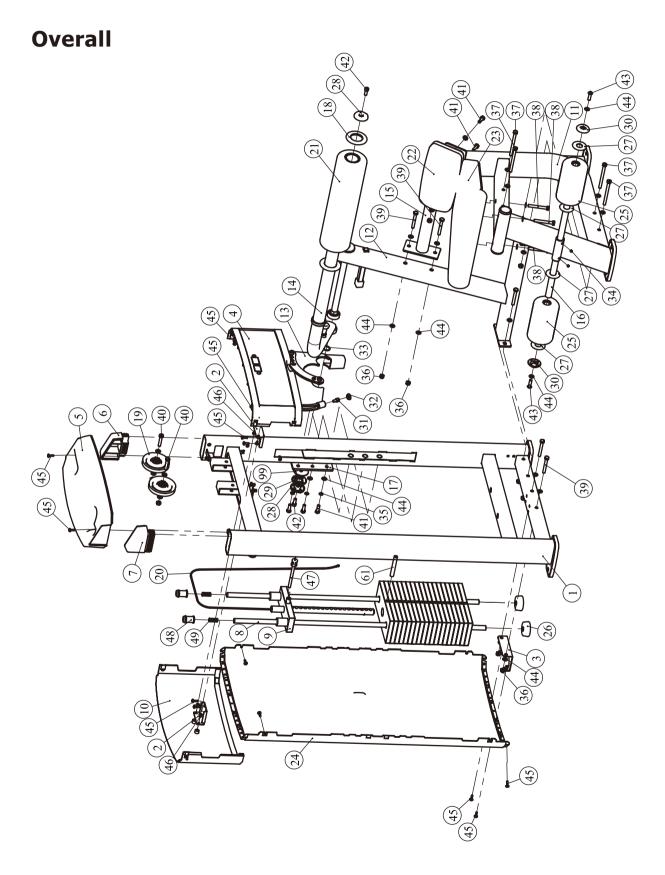


### **Overall**

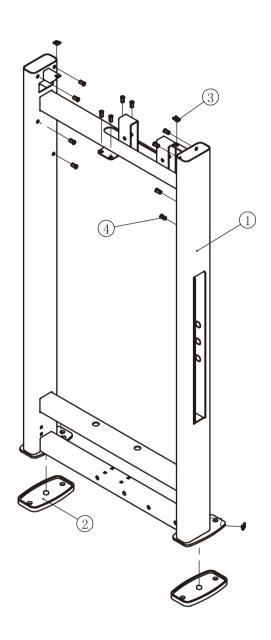
ItemNo.	Grade No.	Part No.	Description	QTY
1	1	IF931401ASSY	Weight Stack Frame ASSY	1
2	2	IF93012100	Top Bracket	2
3	3	IF930122ASSY	Bottom Bracket ASSY	1
4	4	IF93013100	Training Placard Cover	1
5	5	IF93013200	Top Cover	1
6	6	IF93013300	Right Plug	1
7	7	IF93013400	Left Plug	1
8	8	IT95081700	Guide Rod Φ19*1242	2
9	9	IT95014200	Top Plate	1
10	10	IT95015500	Top Rear Shroud	1
11	11	IF931402ASSY	Seat Pad Frame ASSY	1
12	12	IF931403ASSY	Support Frame ASSY	1
13	13	IF931404ASSY	Cam Wheel Brackets ASSY	1
14	14	IF931405ASSY	Pivot Arm ASSY	1
15	15	IF93140600	Connection Frame	1
16	16	IF931407ASSY	FOAM Tube ASSY	1
17	17	IF93050900	Rotate Support Frame ASSY	1
18	18	IT80053700	Locking Ring	2
19	19	SG500110400V5	4.5" Pulley	2
20	20	IF93145600	Cable ASSY	1
21	21	IF81241100V3	FOAM ASSY	1
22	22	IT95322000V1	Waist Pad	1
23	23	IF93145200	Seat Pad	1
24	24	IT95015600	Rear Shroud	1
25	25	IF81023500V4	FOAM ASSY	2
26	26	IT80023000	Weight Rubber Bumper	2
27	27	HF1652100	Plastic Washer	4
28	28	FE97211900	Сар Ф60	2
29	29	FE97212000	Circle Ring Φ62.5*5	1
30	30	IF81022000PBC	Foam Cap	2

### Overall

ItemNo.	Grade No.	Part No.	Description	QTY
31	31	HFOPT900-04A1400	Aluminium Sheath	1
32	32	V22500	Plug	1
33	33	IT80011800DS	Adjustable Ring	1
34	34	GB77M8*6DS2	Socket Set Screw M8*6	2
35	35	GB9310DS12	Spring Washer Φ10	3
36	36	NM10DS2	Nylon Lock Nut M10	12
37	37	GB5780M10*120DS20	Hex Head Bolt M10*120	4
38	38	GB5780M10*80DS20	Hex Head Bolt M10*80	3
39	39	GB5780M10*75DS20	Hex Head Bolt M10*75	6
40	40	GB5780M10*50DS20	Hex Head Bolt M10*50	2
41	41	GB5780M10*30DS20	Hex Head Bolt M10*30	5
42	42	GB70M10*25DS20NL	Socket Head Cap Screw M10*25	2
43	43	43 PNLM10*35*35DS2NL Button Head Cap Screw M10*3		2
44	44	GB9510DS2	Flat Washer Ф11*Ф20*2	34
45	45	GB818M6*20*20N19	Cross Recessed Pan Head Screw M6*20	18
46	46	GB818M6*10N19	Cross Recessed Pan Head Screw M6*10	4
47	47	IT90012000V1	Selector Pin W/Coil	1
48	48	IT95016100	Guide Rod Fixing SleeveΦ25*Φ19*45	2
49	49	HFOPT900-04A0602	Spring Φ15.5*Φ1.5*36	2
50	50	LW200BS	Wrench Φ6*117	1
51	51	NBS8DHS	Hex Key S=8	1
52	52	NBS6DHS	Hex Key S=6	1
53	53	YHY	Lube	1
54	60	NBS4DHS	Hex Key S=4	1
55	99	IF93062200	Washer Φ62*Φ10.5*3	1
56	61	IT80124103	Split Pin Φ11*76	1



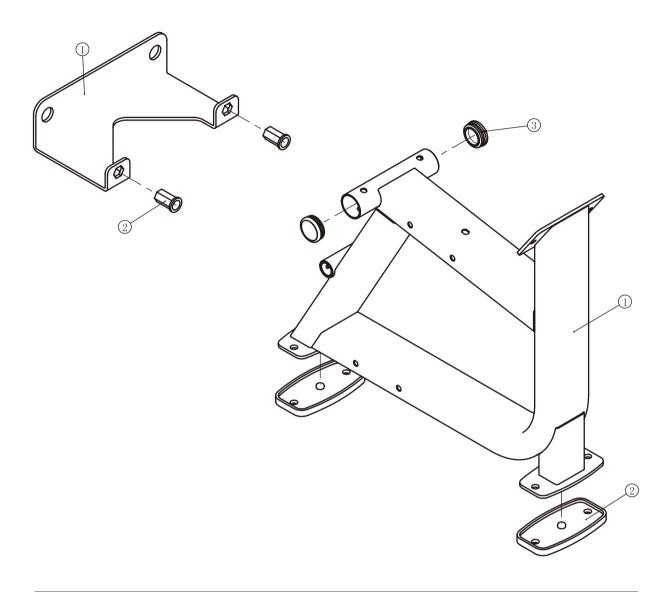
# **Weight Stack Frame ASSY**



ItemNo.	Grade No.	Part No.	Description	QTY
1	1.1	IF93140100	Weight Stack Frame	1
2	1.2	BS81223100	Foot Plate	2
3	1.3	AC32705800	U-nut M6	4
4	1.4	GB17880.5M6*16.5DS17	Rivet Nut M6	12

### **Bottom Bracket ASSY**

### **Main Frame ASSY**

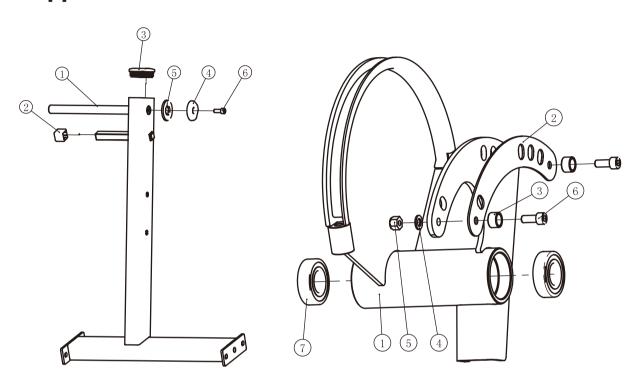


ItemNo.	Grade No.	Part No.	Description	QTY
1	3.1	IF93012200	Bottom Bracket	1
2	3.2	GB17880.5M6*16.5DS17	Rivet Nut M6	2

ItemNo.	Grade No.	Part No.	Description	QTY
1	11.1	IF93140200	Seat Pad Frame	1
2	11.2	BS81223100	Foot Plate	2
3	11.3	B10009900	Plug	2

### Support Frame ASSY

### **Cam Wheel Brackets ASSY**

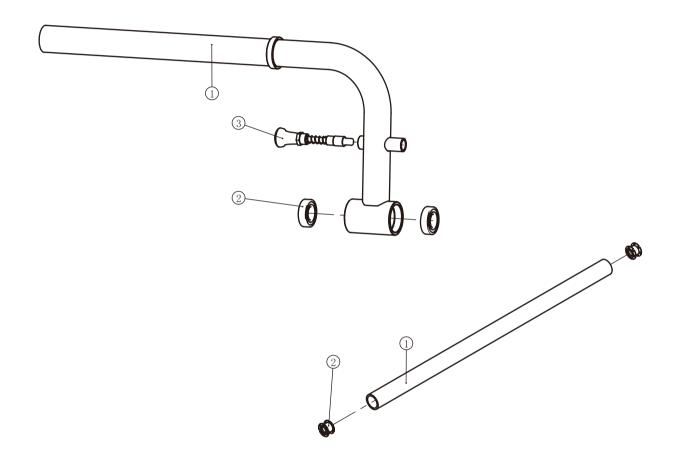


ItemNo.	Grade No.	Part No.	Description	QTY
1	12.1	IF93140300	Support Frame	1
2	12.2	FE97213100	Square Rubber Sleeve	1
3	12.3	KPSFID2800	Plug	1
4	12.4	FE97211900	Сар Ф60	1
5	12.5	FE97212000	Circle Ring Φ62.5*5	1
6	12.6	GB70M10*25DS20NL	Socket Head Cap Screw M10*25	1

ItemNo.	Grade No.	Part No.	Description	QTY
1	13.1	IF93140400	Cam Wheel Brackets	1
2	13.2	IF93142100	Lining Board	1
3	13.3	IN-S10111200	Rubber Sleeve Ф17*10.5	2
4	13.4	GB958DS2	Flat Washer Φ9*Φ16*1.6	2
5	13.5	NM8DS2	Nylon Lock Nut M8	2
6	13.6	GB70M8*20DS20	Socket Head Cap Screw M8*20	2
7	13.7	GB2766205-2ZC3	Deep Groove Ball Bearing Φ25*Φ52*15	2

### **Pivot Arm ASSY**

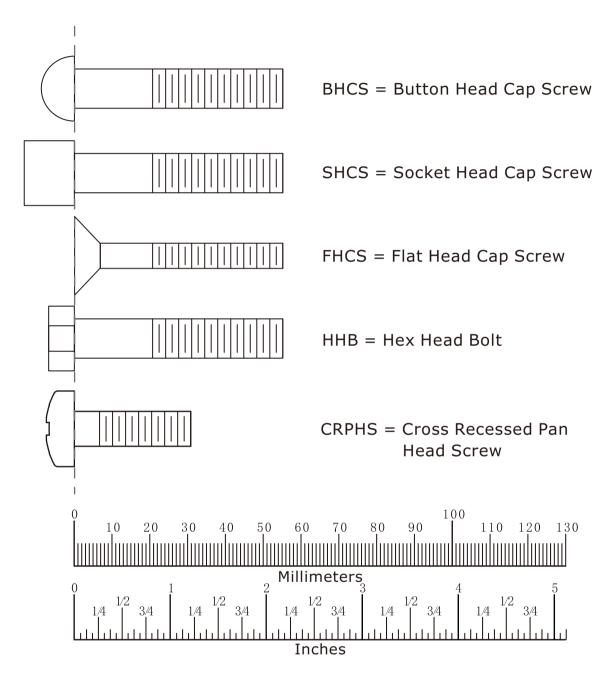
### **Foam Tube ASSY**



ItemNo.	Grade No.	Part No.	Description	QTY
1	14.1	IF93140500	Pivot Arm	1
2	14.2	GB2766205-2ZC3	Deep Groove Ball Bearing Φ25*Φ52*15	2
3	14.3	IT9315G1500	Pin	1

ItemNo.	Grade No.	Part No.	Description	QTY
1	16.1	IF93140701	Startup Frame	1
2	16.2	IF81165000	Lock Nut	2

# **Measurement Guide**



Diameter of bolt (mm/inch)	M6(1/4")	M8(5/16")	M10(3/8")	M12(1/2")	M16(5/8")
Tightening torque (N.m)	9~12	22~30	45~59	78~104	193~257
Operational methods for adult men	The strength of the wrist	The strength of the wrist and forearm	The strength of the entire arm	The strength of the arm and upper body	with all strength

### **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.

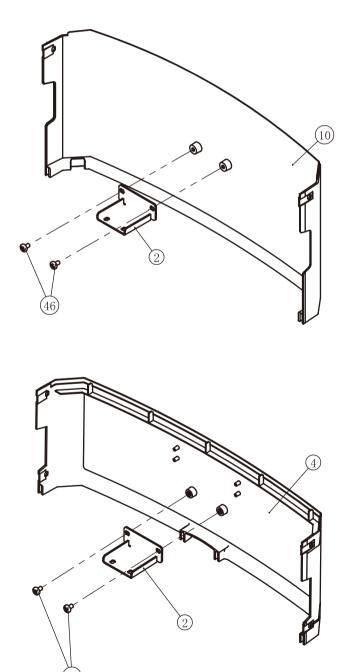
### NOTE

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.

### STEP 1

- 1. Attach the Top Bracket (#2) to the Top Rear Shroud (#10) using: two Cross Recessed Pan Head Screw M6\*10 (#46)
- 2. Attach the Top Bracket (#2) to the Training Placard Cover (#4) using: two Cross Recessed Pan Head Screw M6\*10 (#46)

**Note: Wrench Tighten Screws.** 



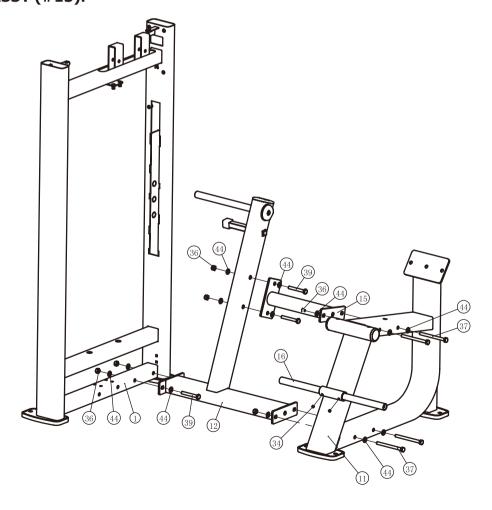
#### STEP 2

- 1. Attach the Support Frame ASSY (#12) to the Weight Stack Frame ASSY (#1) using: two M10\*75 HHB (#39) four  $\Phi$ 11\* $\Phi$ 20\*2 Flat Washer (#44) two M10 Nylon Lock Nut (#36)
- 2. Attach the Connection Frame (#15) to the Support Frame ASSY (#12) using: two M10\*75 HHB (#39) four  $\Phi$ 11\* $\Phi$ 20\*2 Flat Washer (#44) two M10 Nylon Lock Nut (#36)
- 3. Attach the Seat Pad Frame ASSY (#11) to the Support Frame ASSY (#12) using: four M10\*120 HHB (#37) eight  $\Phi$ 11\* $\Phi$ 20\*2 Flat Washer (#44) four M10 Nylon Lock Nut (#36)
- 4 Attach the Foam Tube ASSY (#16) to the Seat Pad Frame ASSY (#11) using: two M8\*6 Socket Set Screw (#34)

Note: Wrench Tighten Bolts and Nylon Lock Nuts.

Do Not Lock Nylon Lock Nuts (#36) until Attach the Cam Wheel Brackets

ASSY (#13).



### STEP 3

- 1. Attach the Pivot Arm ASSY (#14) to the Support Frame ASSY (#12) using: one Adjustable Ring (#33)
- 2. Attach the Cam Wheel Brackets ASSY (#13) to the Support Frame ASSY (#12).
- 3. Attach the Rotate Support Frame ASSY (#17) to the Weight Stack Frame ASSY (#1) and the Support Frame ASSY (#12) using:

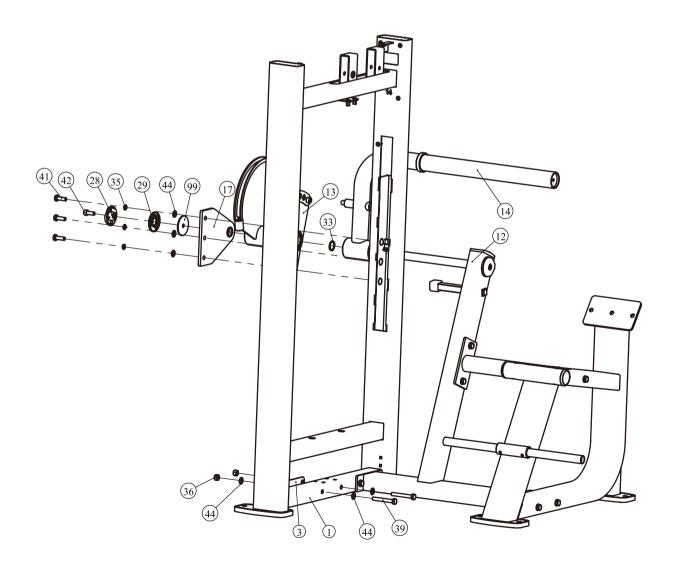
three M10\*30 HHB (#41) three $\Phi$ 10 Spring Washer (#35)

three Φ11\*Φ20\*2 Flat Washer (#44) one M10\*25 Socket Head Cap Screw (#42)

one Φ60 Cap (#28) one Φ62.5\*5 Circle Ring (#29)

one Φ62\*Φ10.5\*3 Washer (#99)

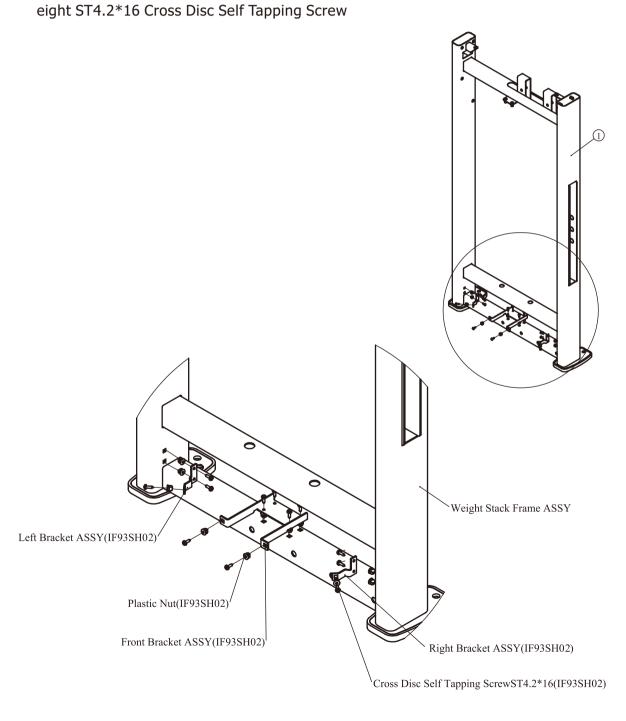
Note: Wrench Tighten Bolts and Nylon Lock Nuts.



### **Select STEP**

If you install the Front Shroud Attachment (IF93SH02) later, you should to finish the following step firstly.

- 1. Attach eight Plastic Nut to the Weight Stack Frame ASSY (#1).
- 2. Attach the Front Bracket ASSY, Right Bracket ASSY and the Left Bracket ASSY to the Weight Stack Frame ASSY (#1) using:



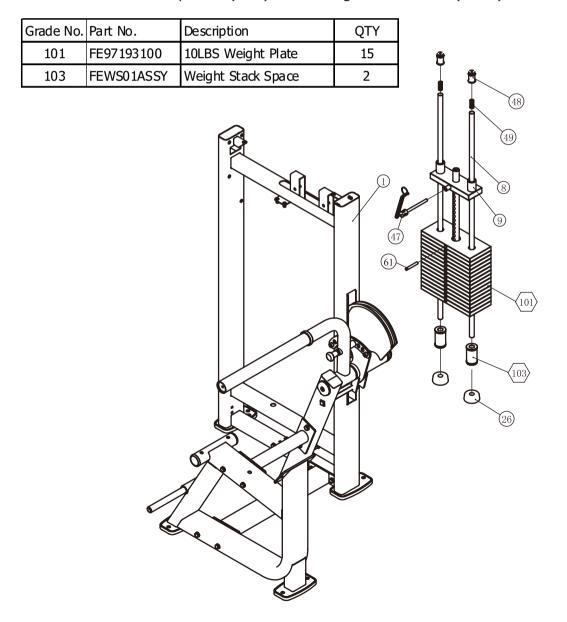
### STEP 4

### Here is the assembly instruction for 160LBS Weights!

#### 1. Attach:

two Guide Rod  $\Phi$ 19\*1242 (#8) two Weight Rubber Bumper (#26) fifteen Weight Plate 10LBS (#101) two weight stack space (#103) one Top Plate (#9) to the Weight Stack Frame ASSY (#1) using: two Guide Rod Fixing Sleeve  $\Phi$ 25\* $\Phi$ 19\*45 (#48) two Spring (#49)

- 2. Attach the Selector Pin W/Coil (#47) to the Top Plate (#9).
- 3. Attach the  $\Phi$ 11\*76 Split Pin (#61) to the Weight Plate 10LBS (#101).



### STEP 4

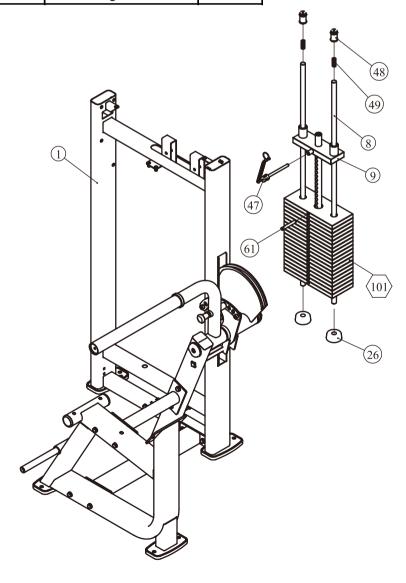
### Here is the assembly instruction for 200LBS Weights!

1. Attach:

two Guide Rod  $\Phi$ 19\*1242 (#8) two Weight Rubber Bumper (#26) nineteen Weight Plate 10LBS (#101) one Top Plate (#9) to the Weight Stack Frame ASSY (#1) using: two Guide Rod Fixing Sleeve  $\Phi$ 25\* $\Phi$ 19\*45 (#48) two Spring (#49)

- 2. Attach the Selector Pin W/Coil (#47) to the Top Plate (#9).
- 3. Attach the  $\Phi$ 11\*76 Split Pin (#61) to the Weight Plate 10LBS (#101).

Grade No.	Part No.	Description	QTY
101	FE97193100	10LBS Weight Plate	19



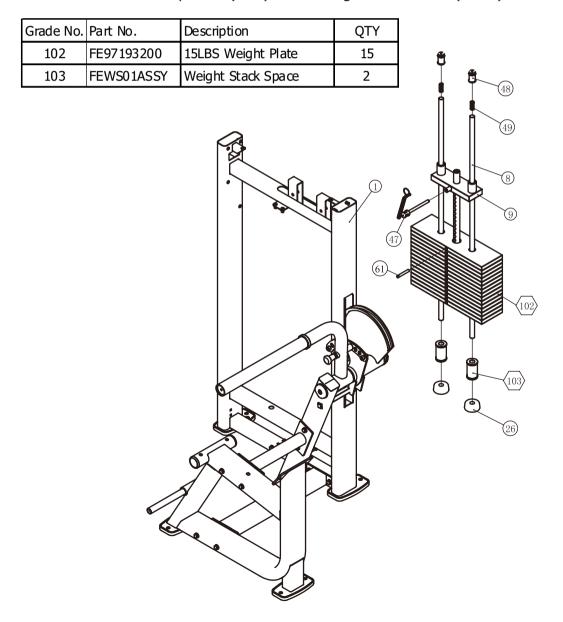
### STEP 4

### Here is the assembly instruction for 235LBS Weights!

1. Attach:

two Guide Rod  $\Phi$ 19\*1242 (#8) two Weight Rubber Bumper (#26) fifteen Weight Plate 15LBS (#102) two weight stack space (#103) one Top Plate (#9) to the Weight Stack Frame ASSY (#1) using: two Guide Rod Fixing Sleeve  $\Phi$ 25\* $\Phi$ 19\*45 (#48) two Spring (#49)

- 2. Attach the Selector Pin W/Coil (#47) to the Top Plate (#9).
- 3. Attach the  $\Phi$ 11\*76 Split Pin (#61) to the Weight Plate 15LBS (#102).



### STEP 4

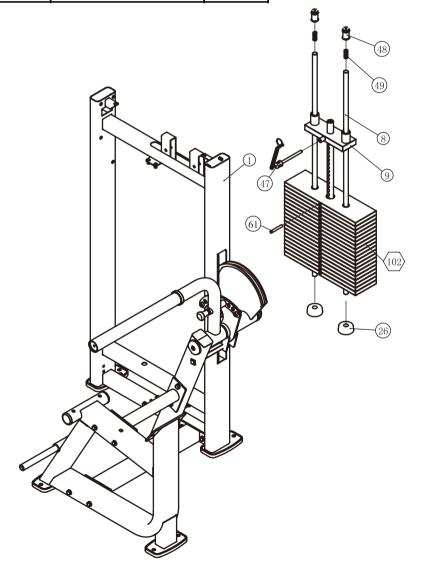
### Here is the assembly instruction for 295LBS Weights!

1. Attach:

two Guide Rod  $\Phi$ 19\*1242 (#8) two Weight Rubber Bumper (#26) nineteen Weight Plate 15LBS (#102) one Top Plate (#9) to the Weight Stack Frame ASSY (#1) using: two Guide Rod Fixing Sleeve  $\Phi$ 25\* $\Phi$ 19\*45 (#48) two Spring (#49)

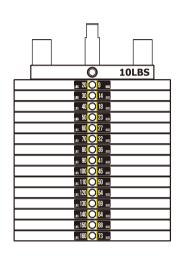
- 2. Attach the Selector Pin W/Coil (#47) to the Top Plate (#9).
- 3. Attach the  $\Phi$ 11\*76 Split Pin (#61) to the Weight Plate 15LBS (#102).

Grade No.	Part No.	Description	QTY
102	FE97193200	15LBS Weight Plate	19



### All weight plate sticker paste schematic diagram

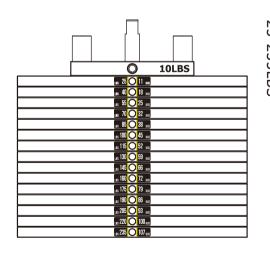


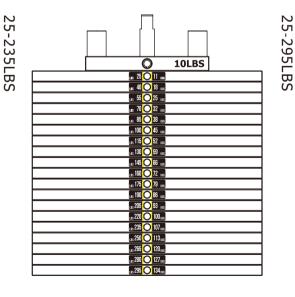




20-200LBS





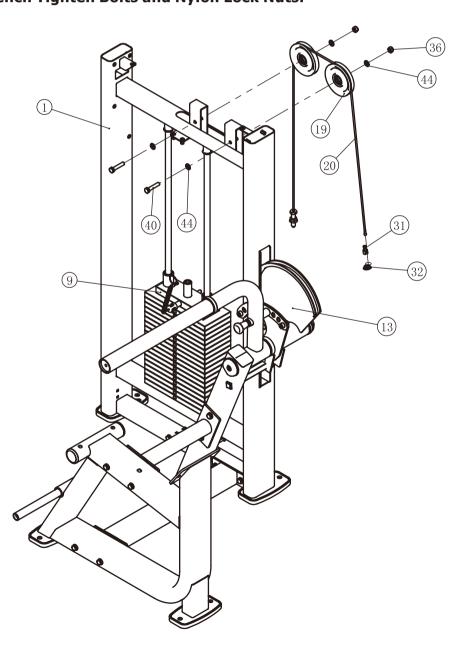


### STEP 5

**TIPS:** Before attach the 4.5" Pulley to the frame, you should lead the Cable ASSY (#20) across it.

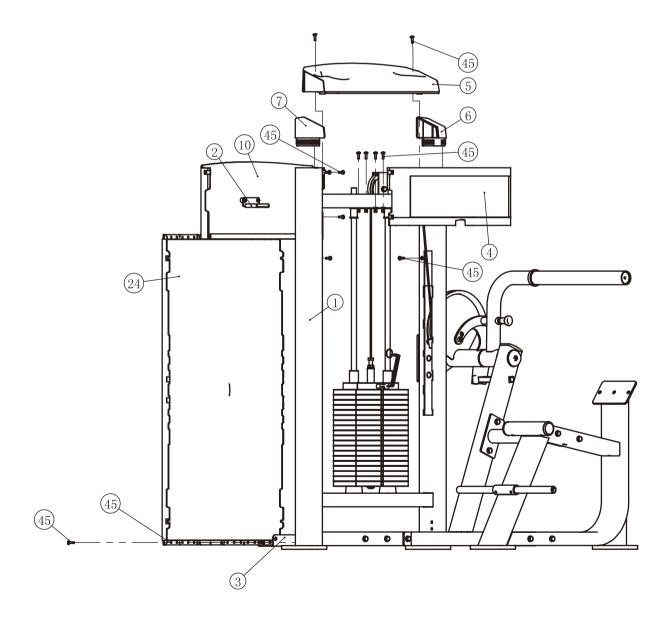
- 1. Attach two 4.5" Pulley (#19) to the Weight Stack Frame ASSY (#1) using: two M10\*50 HHB (#40) four  $\Phi$ 11\* $\Phi$ 20\*2 Flat Washer (#44) two M10 Nylon Lock Nut (#36)
- 2. Attach the Cable ASSY (#20) to the Top Plate (#9) and the Cam Wheel Brackets ASSY (#13) using:
  one Plug (#32) one Aluminium Sheath (#31)

Note: Wrench Tighten Bolts and Nylon Lock Nuts.



### STEP 6

- 1. Attach the Rear Shroud (#24) to the Weight Stack Frame ASSY (#1) and the Bottom Bracket ASSY (#3) using: six M6\*20 CRPHS (#45)
- 2. Attach two Top Bracket (#12), the Training Placard Cover (#4) and the Top Rear Shroud (#10) to the Weight Stack Frame ASSY (#1) using: ten M6\*20 CRPHS (#45)
- 3. Attach the Right Plug (#6) and the Left Plug (#7) to the Weight Stack Frame ASSY (#1).
- 4. Attach the Top Cover (#5) to the Weight Stack Frame ASSY (#1) using: two M6\*20 CRPHS (#45)



### STEP 7

1. Attach the Seat Pad (#23) and the Waist Pad (#22) to the Seat Pad Frame ASSY (#11) using:

three M10\*80 HHB (#38)

two M10\*30 HHB (#41)

five Φ11\*Φ20\*2 Flat Washer (#44)

2. Attach the FOAM ASSY (#21) to the Pivot Arm ASSY (#14) using:

two Locking Ring (#18)

one Φ60 Cap (#28)

one M10\*25 SHCS (#42)

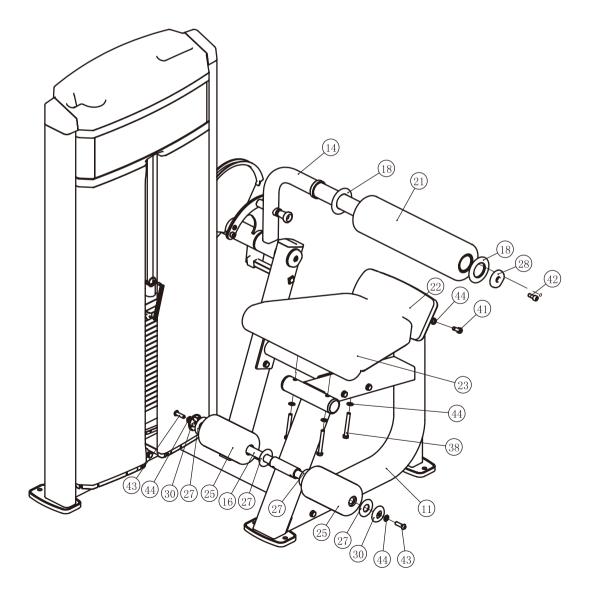
3. Attach the FOAM ASSY (#25) to the Foam Tube ASSY (#16) using:

four Plastic Washer (#27)

two Foam Cap (#30)

two Φ11\*Φ20\*2 Flat Washer (#44)

two M10\*35\*35 BHCS (#43)



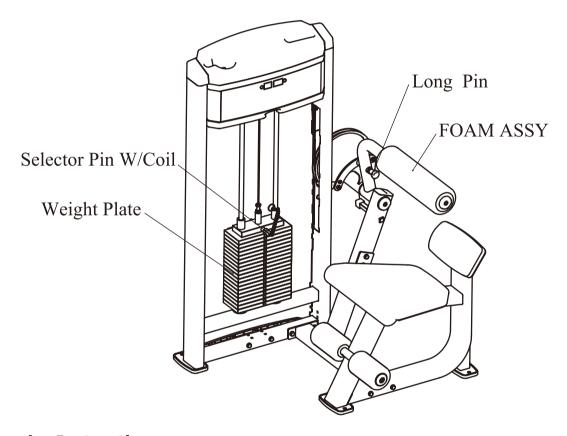
# **Adjust Instructions and Exercise Instructions**

### **The User Position Adjustment**

- 1. Pull the Adjustable Support and Adjust the Seat Pad to the desired position.
- 2. Make sure the pin gets into the hole completely.

#### The use of Selector Pin W/Coil

- 1. Select an appropriate weight and put the Selector Pin W/Coil into the hole on it.
- 2. Make sure the Selector Pin W/Coil gets into the hole completely.



#### **Exercise Instructions**



# **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 warn 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 uses 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.







