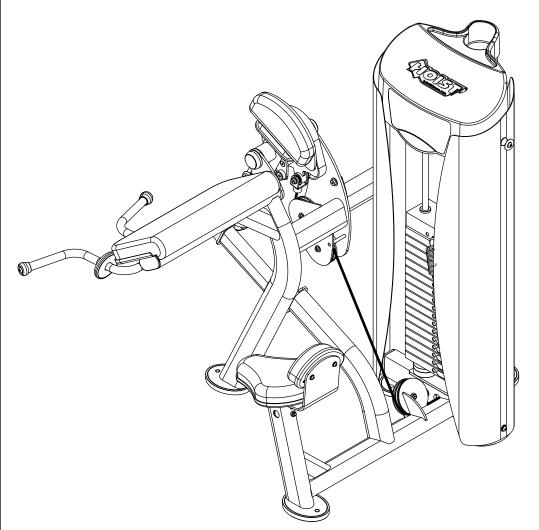


HD-3100 BICEP/TRICEP



WARNING!

TO PREVENT POSSIBLE TIPPING, BOLT THIS UNIT TO THE EXERCISE FLOOR. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

Note: Both Serial Number and Model Number are Required when Ordering Parts RECORD SERIAL NUMBER HERE <u>Customer Service</u>

(800) 548-5438

(858) 578-7676

<u>Fax</u>

(858) 578-9558

MACHINE CODE
A03

www.facebook.com/hoistfitness

CONTENTS

INSTRUCTIONS 02	2
FRAME ASSEMBLY 04	4
PRE-ASSEMBLY 18	8
DECAL PLACEMENT 19	9
DECAL REFERENCE 20	0
PART LIST 22	2
ABBREVIATIONS 25	5
BOLT SIZING CHART 20	6
WASHER SIZING CHART 2	7
MAINTENANCE SCHEDULE 29	9
GENERAL MAINTENANCE INFORMATION 36	0
WEIGHT TRAINING TIPS 3	1
WEIGHT RATIOS 32	2
EXERCISE LOG 33	3
I IMITED WARRANTY 3	4

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 HOIST replacement parts when servicing. Failure to do so will void your warranty and could result in personal injury.

HOIST 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 HOIST 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

1/2", 9/16" and 3/4" Sockets

Adjustable Wrench

Rubber Mallet

Tape Measure

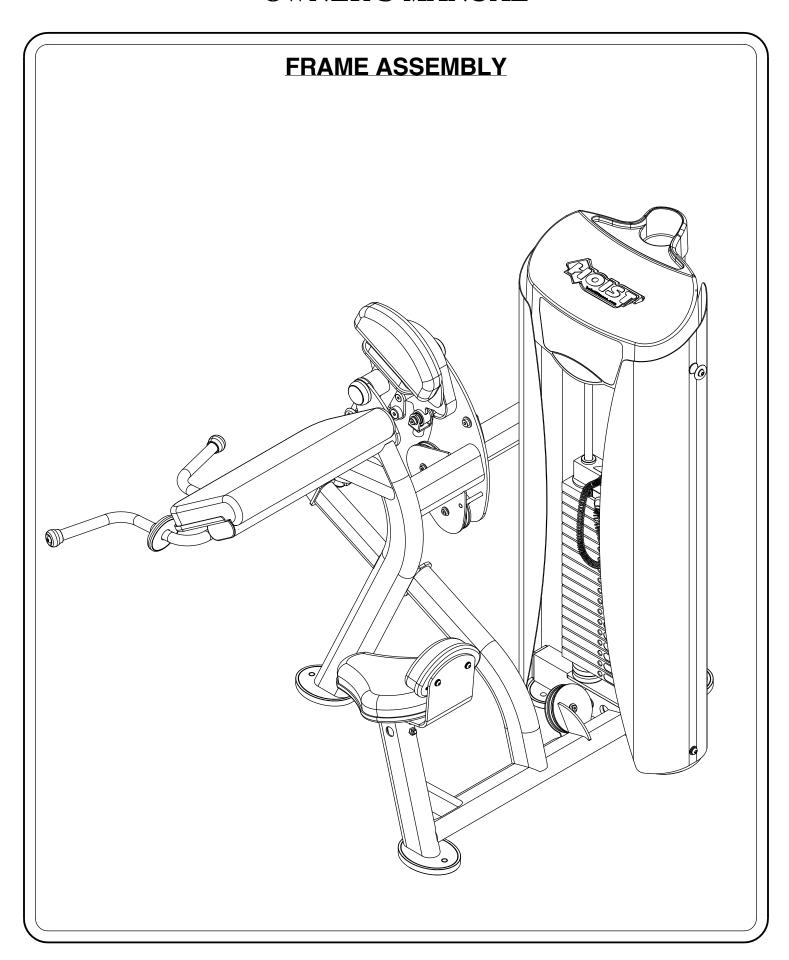
Level

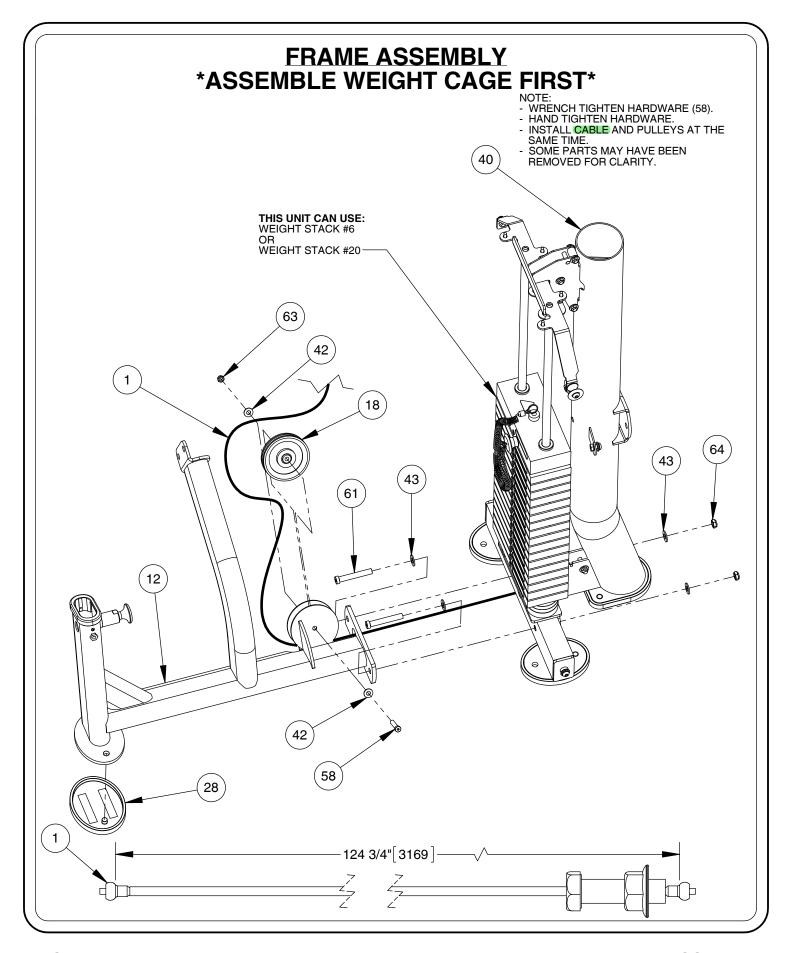
Hex Key Wrench Set

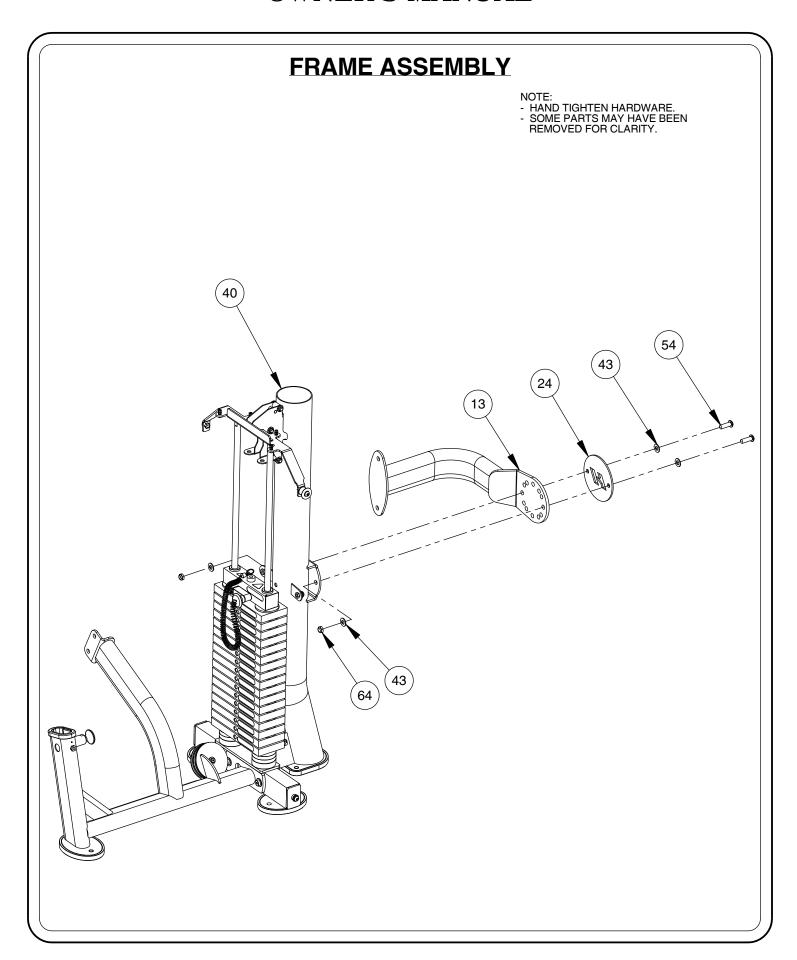
Two People

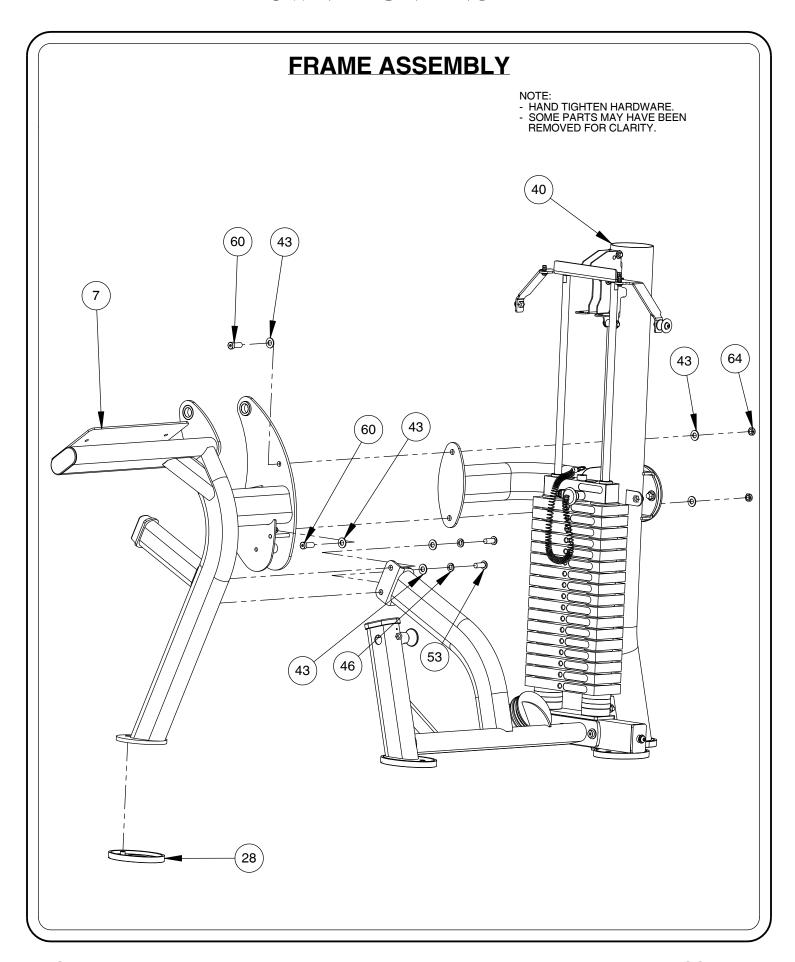
THIS PAGE WAS INTENTIONALLY LEFT BLANK

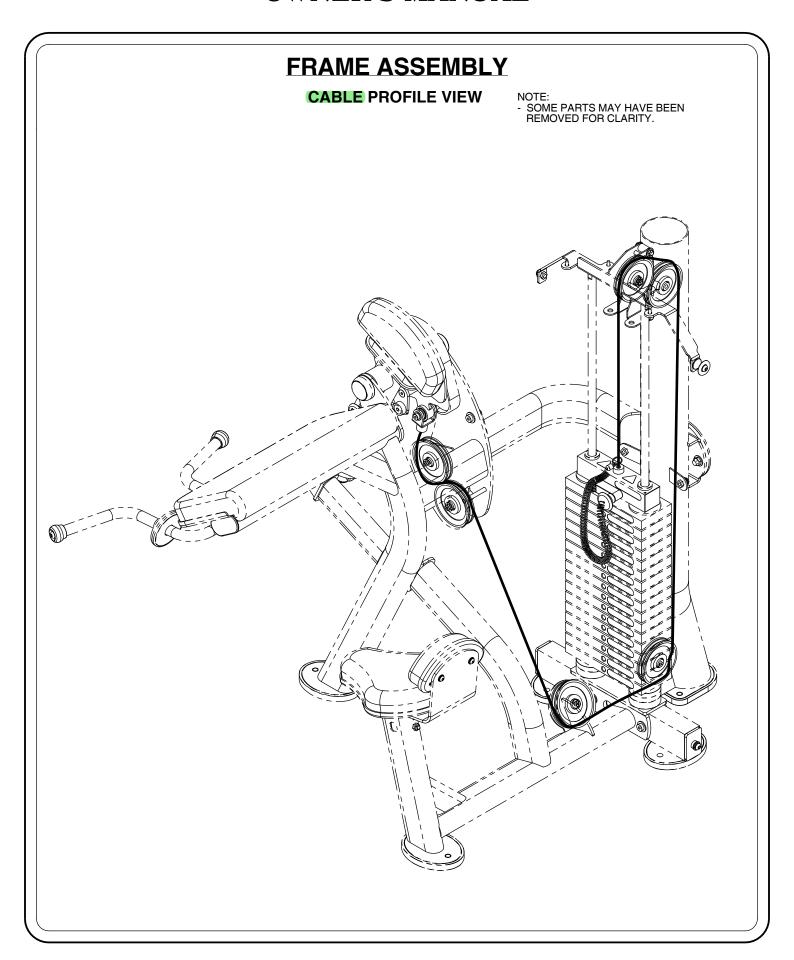
PAGE 03 HD-3100 ASSEMBLY

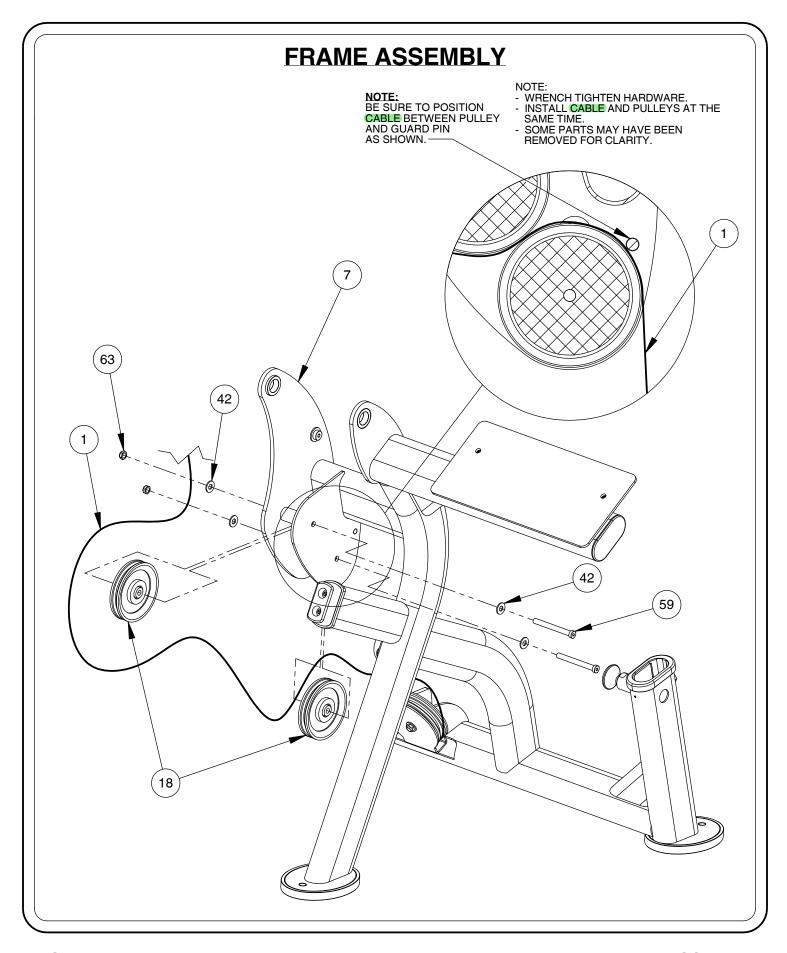


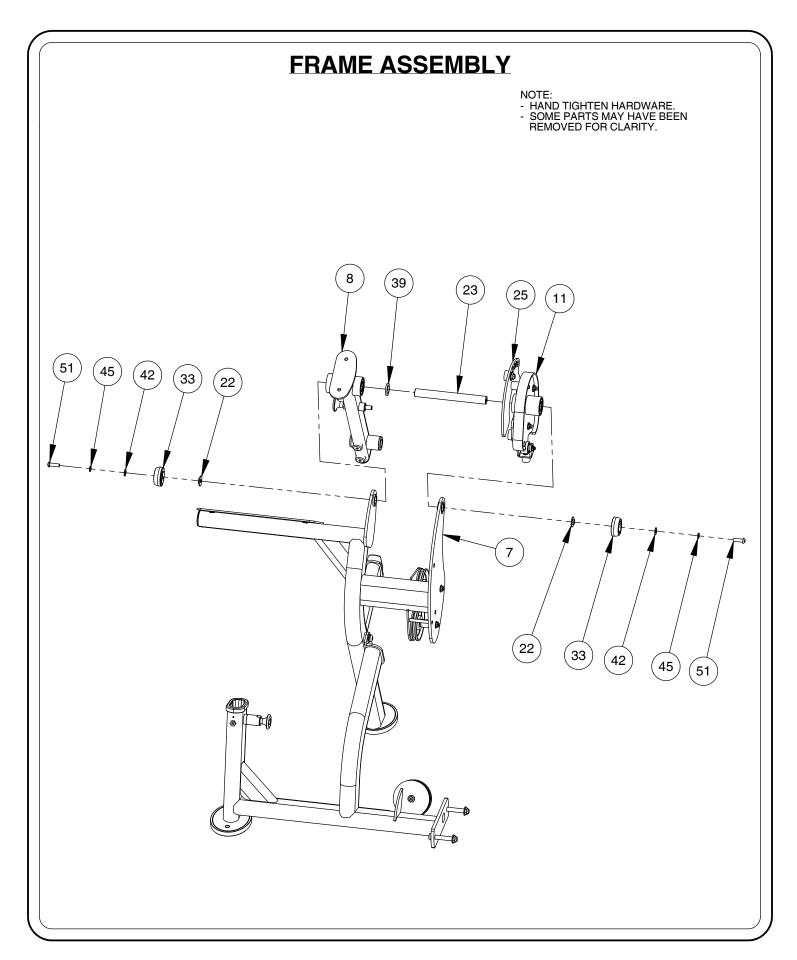


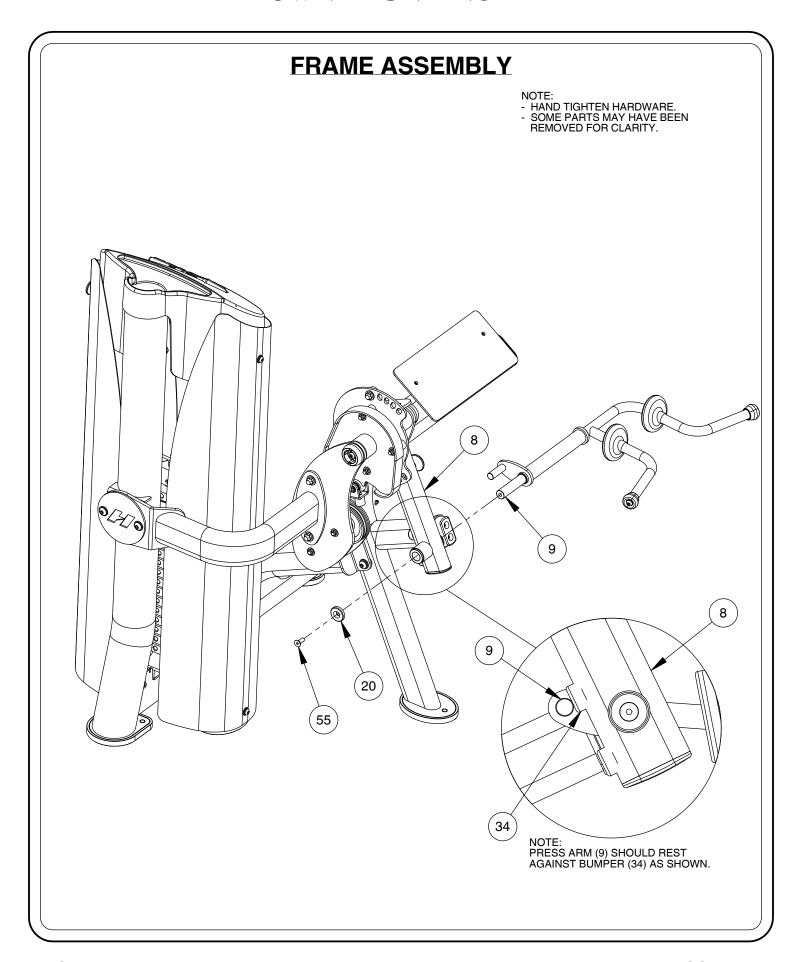


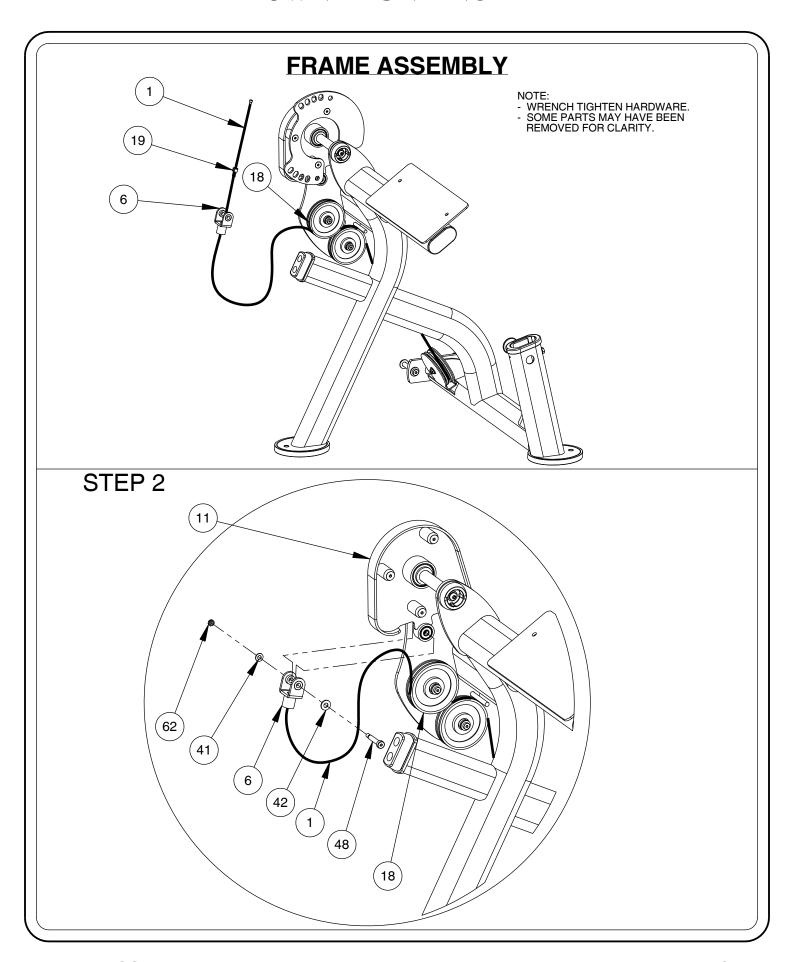


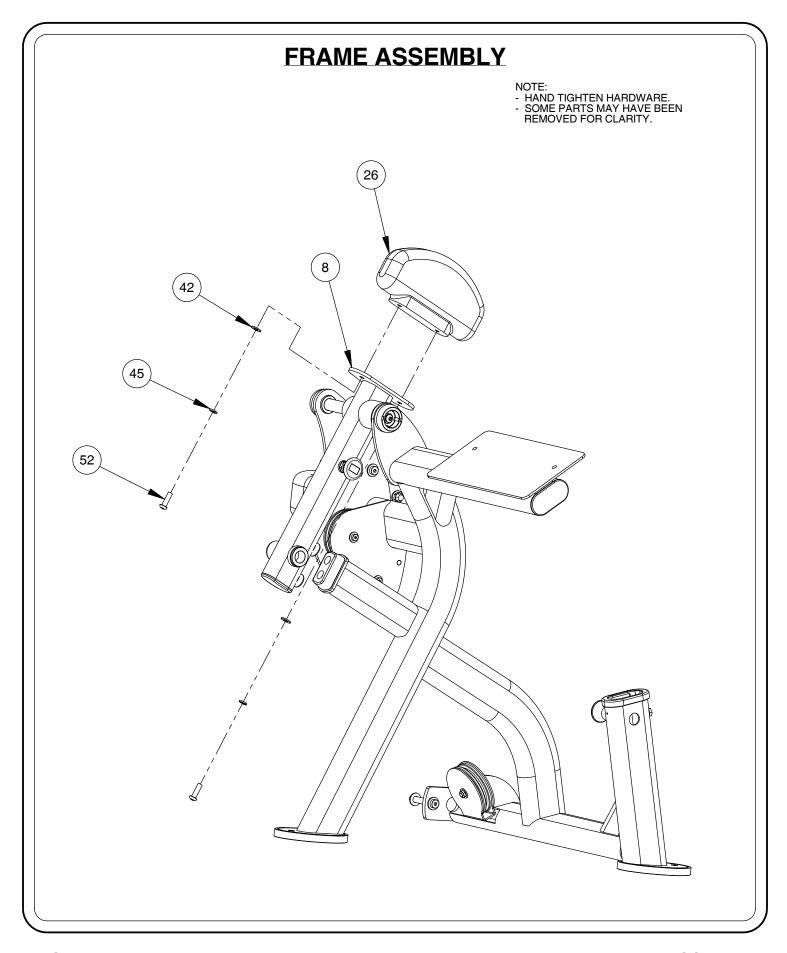


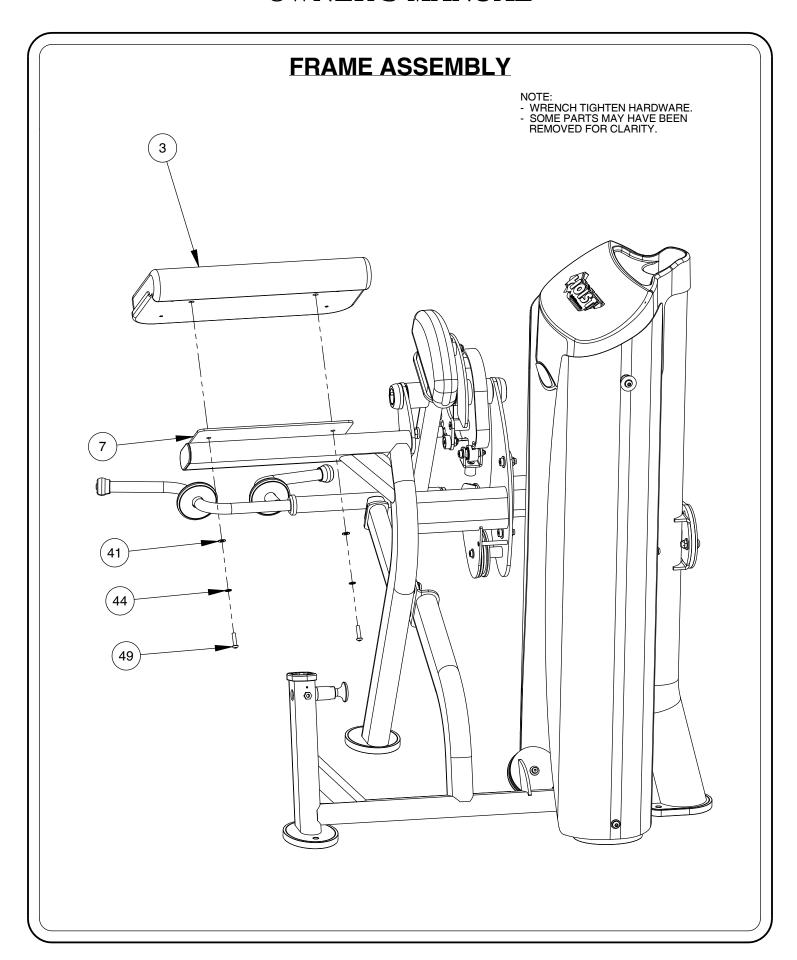


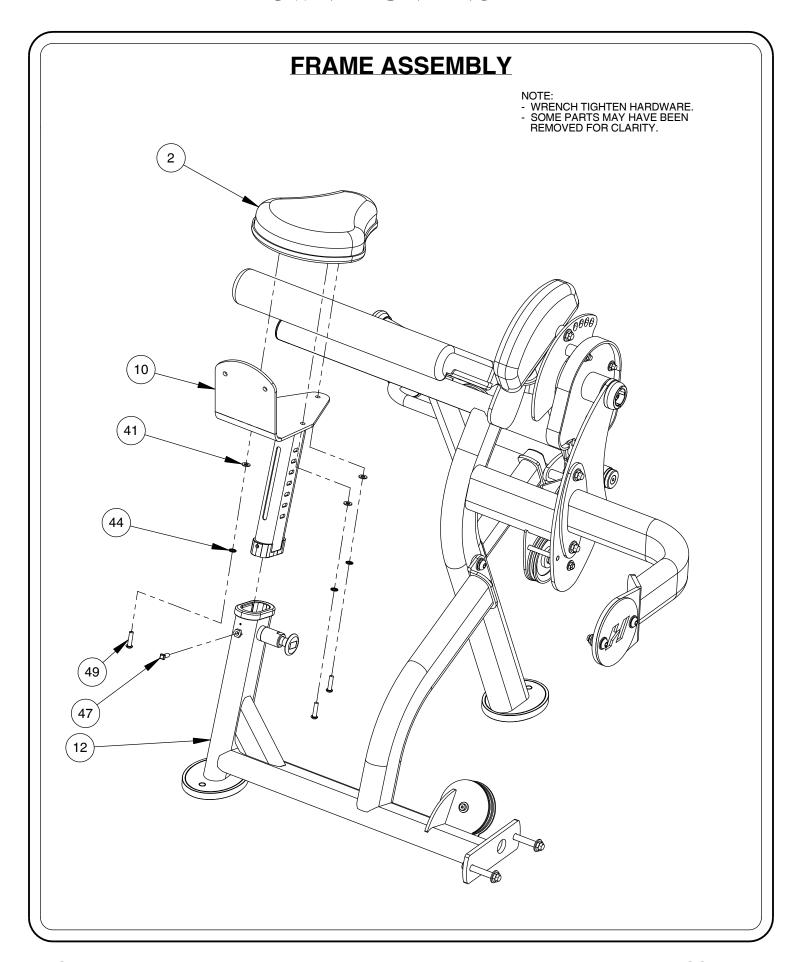


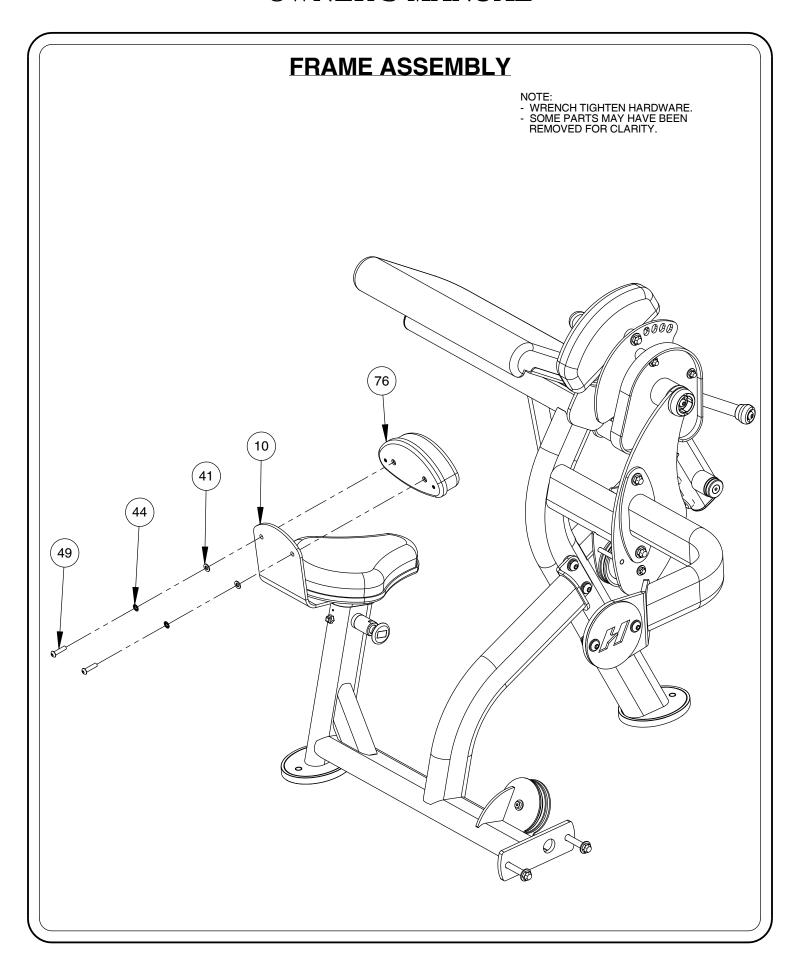


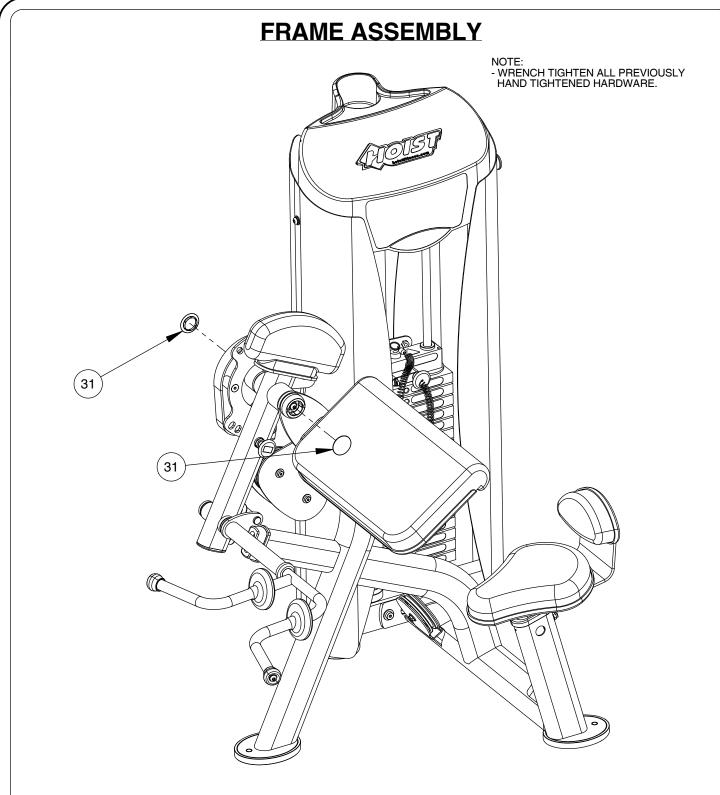






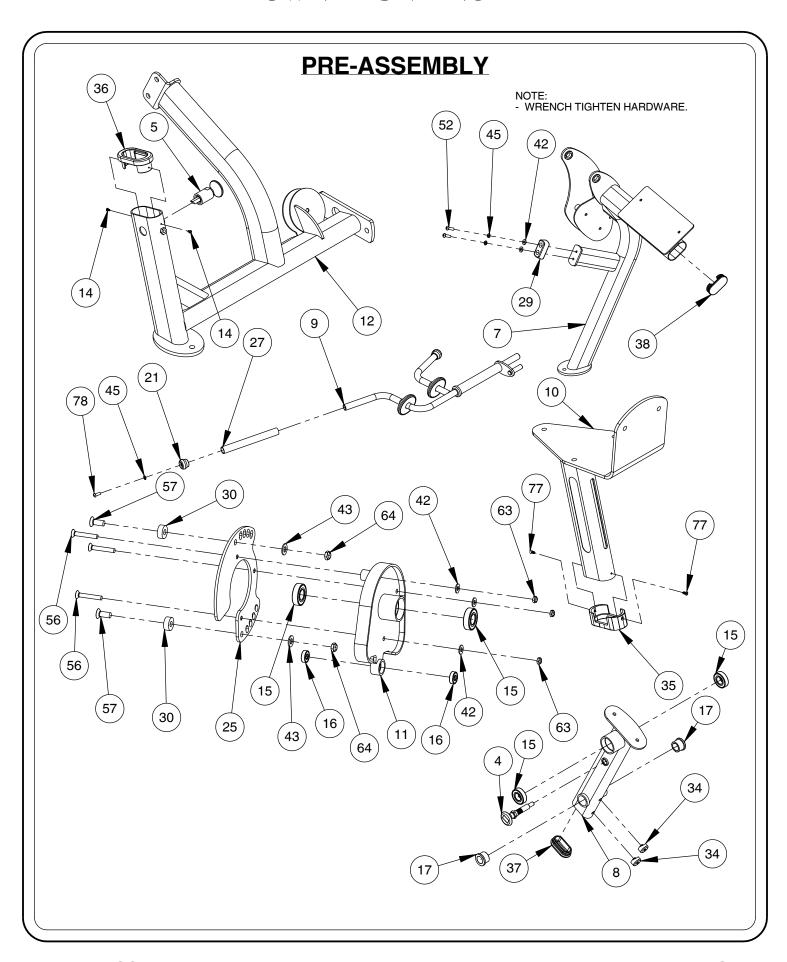


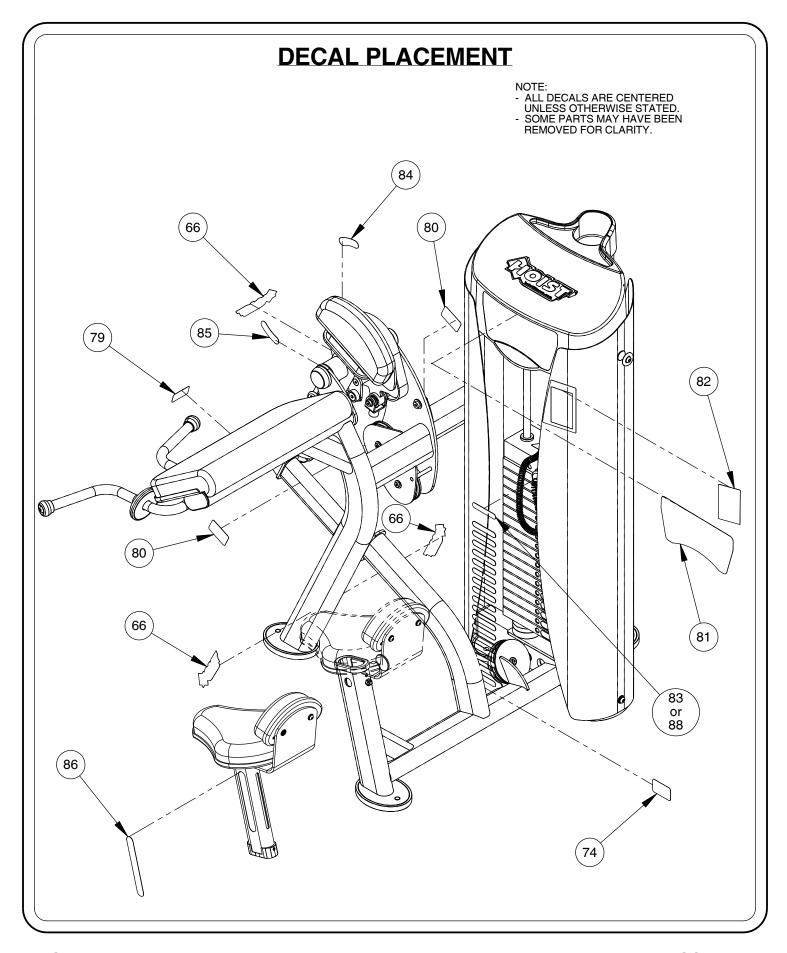


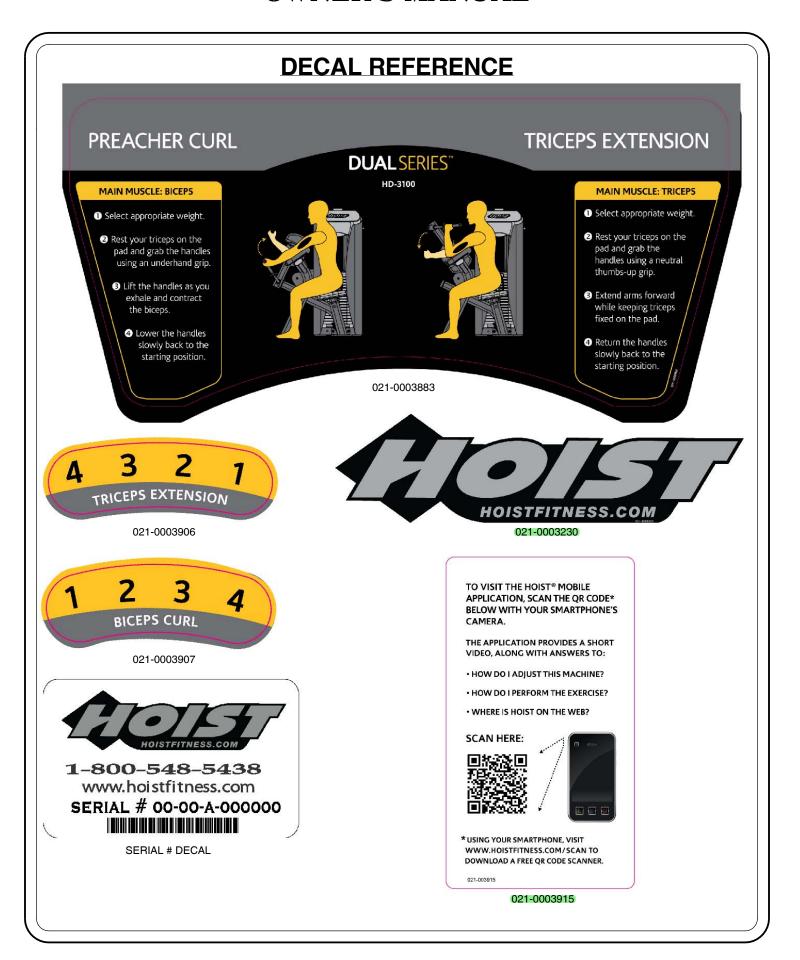


IMPORTANT

NOW THAT THE HD-3100 IS COMPLETELY ASSEMBLED TAKE TIME TO ASSURE THAT YOUR UNIT IS ASSEMBLED SQUARE AND PERPENDICULAR. IF NOT, IT WILL BE NECESSARY TO LOOSEN SOME FRAME HARDWARE TO RE-ALIGN THE FRAME AND RETIGHTEN BOLTS.







DECAL REFERENCE 20 LBS / 9 KGS 100 LBS / 45 KGS 180 LBS / 82 KGS 30 LBS / 14 KGS 110 LBS / 50 KGS 190 LBS / 86 KGS 40 LBS / 18 KGS 120 LBS / 54 KGS **ACAUTION** 50 LBS / 23 KGS 130 LBS / 59 KGS STAND CLEAR OF MOVING PARTS 60 LBS / 27 KGS 140 LBS / 64 KGS 021-0003093 $70 \, \text{LBS} / 32 \, \text{KGS}$ 150 LBS / 68 KGS 80 LBS / 36 KGS 160 LBS / 73 KGS **PINCH** 90 LBS / 41 KGS 170 LBS / 77 KGS **POINTS** 021-0003941 021-0003138 **20 LBS** / 9 KGS **100 LBS** / 45 KGS **210 LBS** / 95 KGS **110 LBS** / 50 KGS **225 LBS** / 102 KGS **30 LBS** / 14 KGS 2 40 LBS / 18 KGS **120 LBS** / 54 KGS 3 **50 LBS** / 23 KGS 135 LBS / 61 KGS 4 **60 LBS** / 27 KGS **150 LBS** / 68 KGS 5 **70 LBS** / 32 KGS **165** LBS / 75 KGS 6 **80 LBS** / 36 KGS **180 LBS** / 82 KGS 90 LBS / 41 KGS **195 LBS** / 88 KGS 021-0003911 021-0003944

PART LIST

NOTE: SOME OF THESE PARTS MAY COME PRE-INSTALLED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	010-01C0430	HD-3100 CABLE ASSEMBLY - 124 3/4" LG.	1
2	022-01PD2099-A	SEAT PAD ASSEMBLY	1
3	022-01PD2123-A	PAD ASSEMBLY	1
4	026-01X0186	PULL-PIN ASSEMBLY	1
5	026-01X3160	RATCHET PULL-PIN ASSEMBLY	1
6	026-01X5713	SWIVEL YOKE	1
7	026-01X6539	MAIN FRAME ASSEMBLY	1
8	026-01X6541	ARM SUPPORT ASSEMBLY	1
9	026-01X6542	PRESS ARM	1
10	026-01X6544	SEAT MOUNT	1
11	026-01X6549	CAM ASSY	1
12	026-01X6550	BASE FRAME ASSEMBLY	1
13	026-01X6609	UPPER CAGE TIE	1
14	011-0701120	M4 BHB (Ni)	2
15	014-0012014	BEARING: FLANGELESS - 25mm I.D.	4
16	014-0012022	BEARING: 1614-ZZ (3/8") FLANGELESS BEARING	2
17	014-0101005	BUSHING: OILITE FLANGED Ø1.38" O.D. X Ø1.00" I.D. X .81" LG.	2
18	018-0001003	CABLE PULLEY: Ø4.50"	3
19	026-01M0200	QUICK RELEASE CABLE LOCK Ø.34" I.D. X .9990"LG.	1
20	026-01M0239	ALUMINUM FLATHEAD CAP ∅1.63" X .31" LG.	1
21	026-01M0937	END CAP: ALUMINUM ∅1.0" I.D.	2
22	026-01M3112	FINISHED CAP WASHER	2
23	026-01M3139	PIVOT SHAFT	1
24	026-01P2653	'H' PLATE	1
25	026-01P4472	WEAR PLATE	1
26	026-01P4508	31 LB. COUNTER WEIGHT	1
27	026-01PL0206-13	GRIP ∅1.00" X 10.50" LG.	2
28	026-01PL2122	OVAL-SHAPED RUBBER FOOT	2
29	026-01PL2291	RUBBER STOP	1
30	026-01PL2325	PLASTIC LIMITER	2
31	026-01PL2371	3.75" ROLLER PAD END CAP	2
32	026-01PL2492	HAND SADDLE	2
33	026-01PL2553	FINISH CAP BODY, Ø2.3750"	2
34	026-01PL2561	PLUG BUMPER, COPED	2
35	026-01PL2563	INNER SEAT ADJUSTER BUSHING	1

PART LIST CONTINUED

NOTE: SOME OF THESE PARTS MAY COME PRE-INSTALLED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
36	026-01PL2564	GLIDE SLEEVE	1
37	026-01PL2565	3.15" X 1.57" CAP	1
38	026-01PL2566	CAP 1.97" X 3.94"	1
39	026-01T4025	SPACER - ∅1.50 X .250" WALL X .188 LG.	1
40	ROC-IT WEIGHT CAGE - A2	ROC-IT WEIGHT CAGE	1
41	013-1002010	5/16" SAE FLAT WASHER (Ni)	8
42	013-1002007	3/8" X 22mm FLAT WASHER (Ni)	16
43	013-1002006	1/2" X 27mm SAE FLAT WASHER (Ni)	16
44	013-1010003	5/16" INTERNAL LOCK WASHER (Ni)	7
45	013-1006003	3/8" SPLIT LOCK WASHER (Ni)	8
46	013-1006004	1/2" SPLIT LOCK WASHER (Ni)	2
47	011-0704001	3/8-16UNC X .75" SQUARE HEAD (Ni)	1
48	011-0416098	10mm X 45mm SHSS (Ni)	1
49	011-0701004	5/16"-18UNC X 1.25" BHCS (Ni)	7
51	011-0701084	3/8"-16UNC X 1.25" BHCS (Ni) W/ DRI-LOC PATCH	2
52	011-0701021	3/8"-16UNC X 1.25" BHCS (Ni)	4
53	011-0701048	1/2"-13UNC X 1.25" BHCS (Ni)	2
54	011-0701049	1/2"-13UNC X 1.50" BHCS (Ni)	2
55	011-0702020	3/8"-16UNC X 1.00" FHCS (Ni) W/NYLON PATCH	1
56	011-0702009	3/8"-16UNC X 2.50" FHCS (Ni)	3
57	011-0702025	1/2"-13UNC X 1.25" FHS (Ni)	2
58	011-0116145	3/8"-16UNC X 1.75" LOW HEAD SHCS (Ni)	1
59	011-0116152	3/8"-16UNC X 3.50" LOW HEAD SHCS (Ni)	2
60	011-0116108	1/2"-13UNC X 1.25" LOW HEAD SHCS (Ni)	2
61	011-0116116	1/2"-13UNC X 3.25" LOW HEAD SHCS (Ni)	2
62	012-0504010	8M X 1.25 THIN NYLOCK NUT (Ni)	1
63	012-0504005	3/8"-16 UNC THIN NYLOCK NUT (Ni)	6
64	012-0504002	1/2"-13 UNC THIN NYLOCK NUT (Ni)	8
66	021-0003230	DECAL HOIST 1.625" X 6.0613"	3
74	SERIAL # DECAL	DECAL HOIST SERIAL # 1.63" X 2.63"	1
75	021-0003914	DUAL SERIES EYEBALL DECAL	1
76	022-01PD2082-A	HIP PAD ASSEMBLY	1
77	011-0115005	M4 X 10mm FHMS (Ni)	2
78	011-0701111	3/8"-16UNC X 1.00" BHCS (Ni) W/ DRI-LOC PATCH	2
79	021-0003093	DECAL MOVING PARTS 1.20" X 2.38" (HOR)	1

PART LIST CONTINUED

NOTE: SOME OF THESE PARTS MAY COME PRE-INSTALLED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
80	021-0003138	DECAL PINCH POINT 1.63" X 2.63" (HORIZONTAL)	2
81	021-0003883	PLACARD HD-3100 BICEP/TRICEP	1
82	021-0003915	HD QR DECAL	1
83	021-0003941	HD-3100 WEIGHT STACK DECALS	1
84	021-0003906	HD-3100 ROM Decal - Tricep	1
85	021-0003907	HD-3100 ROM Decal - Bicep	1
86	021-0003911	DECAL ADJUST 1-7 VERTICAL GREY BKGRND	1
87	019-0001006	THICK RUBBER DONUT ∅3.00" X .50" BLACK	4
88	021-0003944	HD WEIGHT STACK #20 DECAL	1

ABBREVIATIONS

BZ = Black Zinc WZ = White Zinc SS = Stainless Steel NI = Nickel



HHB = Hex Head Bolt



FHCS = Flat Head Cap Screw



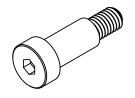
BHCS = Button Head Cap Screw



SHCS = Socket Head Cap Screw

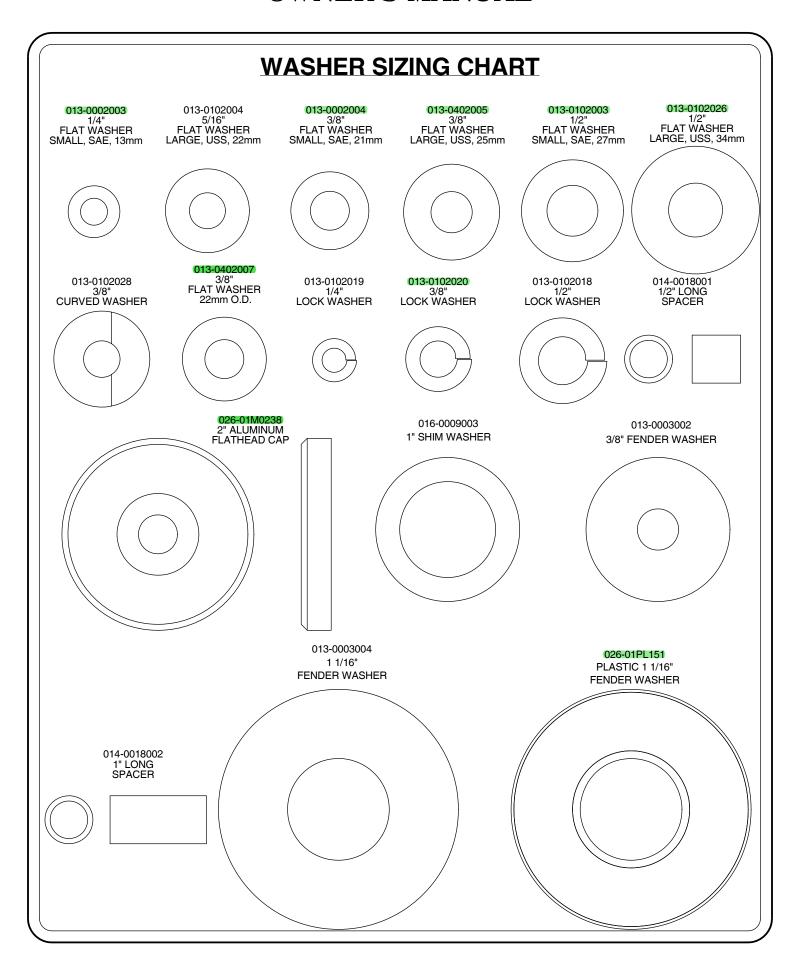


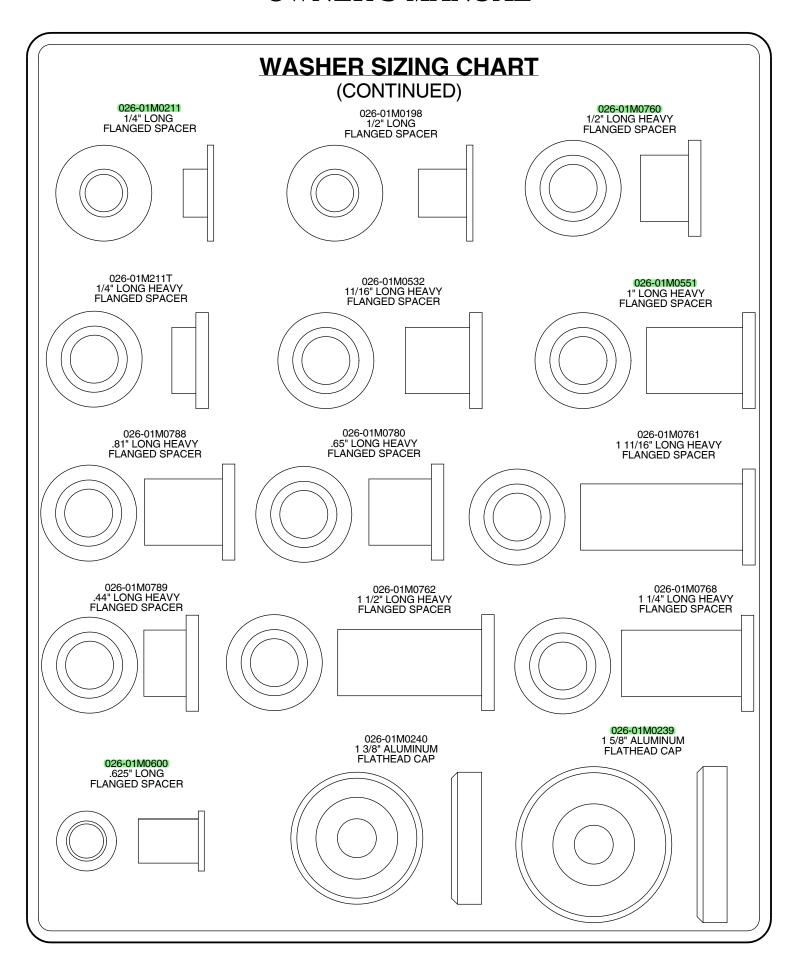
Low Head SHCS = Low Head Socket Head Cap Screw



SHSS = Socket Head Shoulder Screw

BOLT SIZING CHART 1/4" HHB 5/16" HHB 3/8" HHB 1/2" HHB RECOMMENDED RECOMMENDED RECOMMENDED RECOMMENDED TORQUE RANGE: **TORQUE RANGE: TORQUE RANGE: TORQUE RANGE:** 6-8 ft-lbs 14-17 ft-lbs 24-30 ft-lbs 60-75 ft-lbs 5/16" BHCS 3/8" BHCS 1/2" BHCS 1/4" BHCS RECOMMENDED RECOMMENDED RECOMMENDED RECOMMENDED **TORQUE RANGE:** TORQUE RANGE: TORQUE RANGE: TORQUE RANGE: 5-7 ft-lbs 11-15 ft-lbs 19-26 ft-lbs 47-65 ft-lbs 1/4" 5/16" 3/8" 1/2" **LOW HEAD LOW HEAD** LOW HEAD LOW HEAD **SHCS SHCS SHCS SHCS** \bigcirc RECOMMENDED RECOMMENDED RECOMMENDED RECOMMENDED TORQUE RANGE: TORQUE RANGE: TORQUE RANGE: **TORQUE RANGE:** 4-6 ft-lbs 9-12 ft-lbs 18-23 ft-lbs 40-50 ft-lbs 1/4" SHCS 5/16" SHCS 3/8" SHCS RECOMMENDED RECOMMENDED RECOMMENDED **TORQUE RANGE:** TORQUE RANGE: **TORQUE RANGE:** 11-14 ft-lbs 23-29 ft-lbs 39-49 ft-lbs 3/4" 3/4" 3/ 3/4 0 1/2" FHCS 3/8" FHCS 1/4" FHCS RECOMMENDED RECOMMENDED RECOMMENDED TORQUE RANGE: **TORQUE RANGE:** TORQUE RANGE: 47-65 ft-lbs 5-7 ft-lbs 19-26 ft-lbs 3/4" 3/4" 3/4" 3/4 , ~ 0 \sim $^{\circ}$ 3/8" SHSS 5/16" SHSS 1/4" SHSS RECOMMENDED RECOMMENDED RECOMMENDED **TORQUE RANGE: TORQUE RANGE: TORQUE RANGE:** 17-22 ft-lbs 8-10 ft-lbs 3-4 ft-lbs





MAINTENANCE SCHEDULE

ROUTINE	COMMERCIAL / LIGHT 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.

Never use ammonia, acid-based, or petroleum-based solvents on any portion of the machine as it may damage the finish.

HOIST FITNESS SYSTEMS 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:

- *Hoist 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 HD-3100 HOIST® Fitness System. 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 HD-3100 HOIST® Fitness System, 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.

Enjoy your HD-3100 HOIST® Fitness System!

WEIGHT RATIOS NUMBER OF PLATES BICEP TRICEP 42% 35% 8.4 12.6 10.5 3 16.8 14 17.5 4 21 5 25.2 21 29.4 24.5 6 33.6 28 37.8 31.5 9 42 35 10 46.2 38.5 50.4 11 42 54.6 45.5 12 13 58.8 49 52.5 14 63 15 67.2 56 71.4 59.5 16 17 75.6 63 18 79.8 66.5 BICEP CURL - 42%-TRICEP EXTENSION - 35% The above chart shows the standard weight stack for this unit. The weights listed are approximate. HOIST reserves the right to modify the machine without

prior notice.

													_
Totals												Exercise	Date
												S	T
												R	
												W	
												\mathbf{s}	T
												R	l
												W	
												\mathbf{s}	Γ
												R	
												₩	l
												\mathbf{s}	Γ
												R	
												₩	
												\mathbf{s}	Ī
												R	
												W	
												\mathbf{s}	Γ
												R	
												₩	
												\mathbf{s}	Γ
												R	l
												W	l
												\mathbf{s}	Ī
												R	
												₩	
												\mathbf{s}	Ī
												R	
												W	
												\mathbf{s}	ſ
												R	
												W	
												\mathbf{s}	ſ
												R	
									L_			W	
												\mathbf{s}	ſ
												R	
												W	

WEIGHT TRAINING EXERCISE LOG

S = Sets R = Repetition per set W = Weight used

HOIST FITNESS SYSTEMS LIMITED LIFETIME WARRANTY

Hoist Fitness Systems warrants this product to the **original purchaser** to be free from defects in workmanship and/or materials under normal use or service. If at any time a component part is defective, Hoist Fitness Systems shall repair or replace it (at Hoist Fitness Systems option) within a reasonable period of time. This warranty does not cover costs of removal, transportation or reinstallation. This warranty shall not apply if the defect was caused by misuse, neglect or normal wear and tear.

WARRANTY CLAIMS. All claims require: Model number, Serial number, Date of installation, and any information supporting the existence of the alleged defect.

To complete Warranty Registration visit:

www.HOISTFITNESS.com

and click on the Warranty Registration link

Starting from the original date of purchase, normal wear and tear shall be considered as the following:

COMMERCIAL USE: All malfunctions of upholstery, grips, and coatings that occur up to one year; all malfunctions of belts, or cables up to one year; all malfunctions of pulleys, bearings, or bushings that occur up to three years. The frame and body components are warranted for ten years, with structural moving parts warranted for five years.

LIGHT COMMERCIAL USE: All malfunctions of upholstery, grips, and coatings that occur up to one year; all malfunctions of belts, or cables up to one year; all malfunctions of pulleys, bearings, or bushings that occur up to three years. The frame and body components are warranted for ten years, with structural moving parts warranted for five years.

HOME USE: All malfunctions of grips, paint, and chrome that occur up to ten years; all malfunctions of electronic components, belts, cables, or upholstery that occur up to ten years; all malfunctions of pulleys, bearings, or bushings that occur up to ten years. The frame and all welded components are warranted for the life of the product.

PLEASE NOTE THAT NOT ALL HOIST PRODUCTS ARE MADE FOR COMMERCIAL USE. Refer to the instructions page of your owners manual or consult with you fitness product dealer to establish if a product is made for commercial use or not. Using a non-commercial product in a commercial setting can result in serious injury or death! Hoist Fitness Systems sole responsibility shall be to repair or replace the component within the terms stated above. Hoist Fitness Systems shall not be liable for any loss or damage of any kind including any incidental or consequential damages resulting, directly or indirectly from any warranty expressed or implied or any other failure of this product.

LIGHT COMMERCIAL USE: Our Light Commercial warranty applies to facilities that **DO NOT** charge monthly membership dues and where the equipment would be used by **no more than 50** people per day. Examples of Light Commercial facilities include hotels, apartment complexes, personal training studios, fire stations, police stations, etc., that meet the criteria stated above.

WHAT IS NOT COVERED BY THIS WARRANTY: Hoist's sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additions below. This warranty neither assumes nor authorizes any person to assume obligations other than expressly covered by this warranty.

NO CONSEQUENTIAL DAMAGES: Hoist is not responsible for economic loss; profit loss; or special, indirect, or consequential damages.

WARRANTY IS NOT TRANSFERABLE: This warranty is not assignable and applies only in favor of the original purchaser/user to whom delivered. Any such assignment or transfer shall void the warranties herein made and shall void all warranties, expressed, implied or statutory, except the one (1) and five (5) year warranties described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability or fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof.

TRANSPORTATION COSTS: Hoist will accept parts covered under this warranty freight collect, provided that shipment has received prior approval. Hoist is not responsible for any other transportation costs, but will ship freight collect parts either repaired or replaced under these warranties.

Hoist Fitness Systems 11900 Community Rd. Poway, CA. 92064 (800)548-5438

PLEASE KEEP THIS FOR YOUR RECORDS