OWNER'S MANUAL

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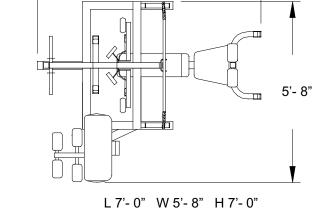
Warranty Back Page



Revision Date 06-30-03

TDH-345

Half Cage Ensemble



7'- 0"



America's Premium Exercise Equipment

Introduction

${\cal A}$ bout the TDH-345 Half Cage Ensemble

congratulations on your new purchase of the TDH-345 Half age Ensemble. This gym is capable of a variety of different xercises, as well as, smooth and user-friendly adjustment feaures. In addition, this gym has been designed to meet the eeds and performance requirements for a suitable home exerise machine. We hope you are completely satisfied with this roduct and wish you many years of enjoyment.

uff Stuff Equipment

his Tuffstuff product has been built to precise quality standards nd has been carefully packaged to ensure that damage will not ccur during shipment. The Home Lifetime Warranty and signaure indicating final inspection has been conducted by our line preman, is an expression of our confidence in the completeess, the materials, and workmanship of this product.

$\mathcal{W}_{\mathsf{arranty}}$

SEE A COPY OF WARRANTY ON BACK PAGE.

$\mathcal{R}_{ ext{egistration}}$ Card

o avoid unnecessary delays in warranty service and to insure nat a permanent record of your purchase is on file with our facory, be sure to complete the warranty registration card and end it to Task Industries today.

Specifications

- . Maximum Wt. Capacity 600 Lbs.
- . Total Machine Weight 405 Lbs.
- . Footprint (LWH) See Front Page

\mathcal{A} bout the lcons

The icons displayed in this Owner's Manual are used to facilitate he correct assembly and safe use of this Product, as-well-as to prevent injury to yourself or anyone else.



Note provides information necessary to properly complete a procedure or information which will make the procedure easier to understand.



Caution indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



Loosely Fasten provides a instruction to loosely fasten (*ex: hand tighten*) a hardware assembly only. This instruction is intended for the alignment of hardware components during the assembly process.



Fully Fasten provides a instruction to fully fasten (*ex: completely tighten*) a hardware assembly.

$\mathcal P$ rior to the Assembly of the TDH-345

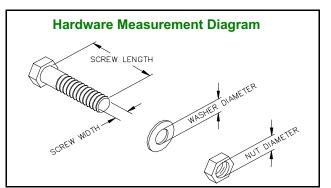
- 1. We advise you to consult your local Tuff Stuff retailer if you should have a question or problem regarding the proper as sembly of this Half Cage Ensemble.
- 2. Consider the complete surface area of the Half-Cage Ensem ble. Use the overhead view located on the front page for de signing your layout before assembling. Once the Half-Cage Ensemble has been fully assembled it will be heavy and diffi cult to move. Therefore, you should, assemble the Half-Cage Ensemble in the area where it is to be used upon completion.
- 3. It is recommended that another person assist you with the assembly of this unit.
- 4. Neatly organize and identify all parts according to the Parts List on page 17, and the Exploded View Diagram on page 18.

Assembly Notes

- 1. Read and follow each step of this Assembly Instruction Manual in sequence. Do not skip ahead, as it will result in an improper assembly or in having to disassemble parts later.
- 2. During the assembly of the this unit you will be instructed to leave some Hex Head Cap Screws loosely fastened. Naturally, they will be fully fastened later in the assembly process. This is done to prevent any difficulty with alignment of some parts during this assembly.

\mathcal{T} ool Requirements

- 1.One 9/16" combination wrench
- 2.One 3/4" combination wrench
- 3.One 7/8" combination wrench
- 4.One 1/2" combination wrench
- 5.One ratchet
- 6.One 9/16" socket
- 7.One 3/4" socket
- 8.External retaining-ring pliers
- 9.One rubber mallet
- 10.One can silicone spray / teflon spray lubricant
- 11. Windex or household glass cleaner
- 12.Measuring tape
- 13.Utility knife



Note: Due to continuing product improvements, specifications and designs are subject to change without notice.

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S afety ${\cal F}$ irst

Regardless of how enthusiastic you may be about getting on your equipment and exercising, take the time to ensure that your safety is not jeopardized. A moment's ack of attention can result in an accident, as can failure to observe certain simple safety precautions.

- Read, study and understand the Owner's Manual and all the warning labels on this product. Furthermore, it is recommended to familiarize yourself and others with the proper operation and workout recommendations for this Tuff Stuff product prior to use. Some of this information can be obtained in this Owner's Manual, as-well-as from your local Tuff Stuff Retailer.
- 2. For proper technique and general conditioning or weight training program, we recommend the book by Bill Pearl, <u>Getting Stronger</u> (ISBN 0-936070-04-8) the most complete book on weight training! Over 350 exercises for free weights and universal machines, easy-to-use training programs and up-to-date information on muscles and nutrition.
- 3. It is imperative that you retain this Owner's Manual and be sure all warning labels are legible and intact. Replacement of Owner's Manual and labels are available from your local Tuff Stuff Retailer.
- 1. Consult with your physician before beginning any exercise program.
- 5. Use proper discretion when children are present.
- 3. Keep hands, limbs, loose clothing and long hair well out of the way of moving parts.
- 7. Do not attempt to lift more weight than you can control safely.
- 3. Inspect the Half Cage Ensemble for any sign of wear on parts, hardware becoming loose or cracks on welds. If a Problem is found do not use or allow the machine to be used until defective part is repaired or replaced.
- Frayed or worn cables can be dangerous and may cause injury. Periodically check cables for any indication of wear.
- 10.Pay special attention to the Turn Pull Pins w/Knob (#72) located on the Bar Holders (#4), and the Bar Safeties (#5). Be sure they are fully engaged into the selectorized holes of the Selectorized Uprights (#6). Refer to Fig. A and B for further illustration.
- 11.Use collars to prevent the Weight Plates from falling off the Weight Carriage (#37) or lifting Bars. Refer to Fig. C for further illustration.

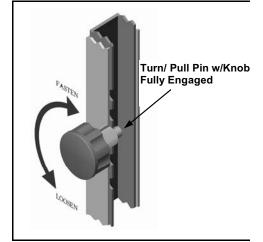


Fig. A Caution: Check that all Turn/ Pull Pins v Knob (#72) are fully engaged into the selectorized holes.



Fig. B Illustration above depicts the location of the Turn Pull Pins w/Knob (#72) on this unit.

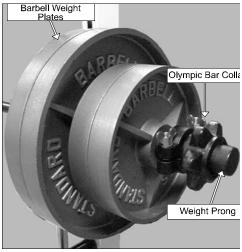
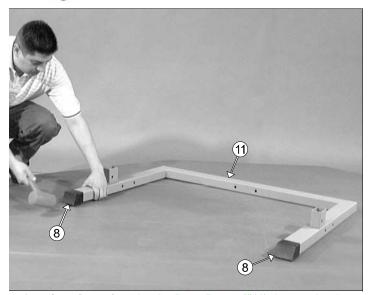


Fig. C Caution: Use collars to prevent the weight plates from falling off the Weight Carriage (#37) or Lifting Bars.



ig. 1 On a flat surface, lay the **Base Frame (#11)** down and, using a libber mallet, insert two Plastic End Caps w/Groove 2 x 3 (#8) onto the be-ends.

Note: When positioning the **Base Frame** (**#11**) consider the complete area surface of the **TDH-345WS**. Use the overhead view on the cover page for designing your layout before assembling.

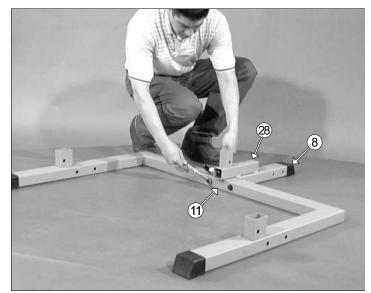
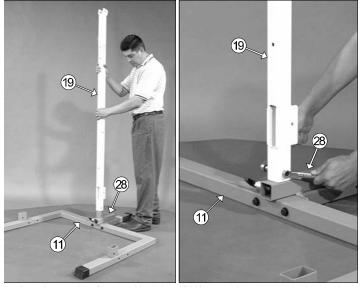


Fig. 2 Locate the **Bottom Assembly Holder** (#28) and, using a rubbe mallet insert one Plastic End Cap w/Groove 2 x 3 (#8) onto the tube-end Next, attach the **Bottom Assembly Holder** (#28) to the **Base Frame** (#11 in the position as shown above, and secure it into place using two Hex Hea Cap Screws 1/2-13 X 4 1/4 (#12), four Flat Washers SAE 1/2" (#10), an two Nylon Insert Lock Nuts 1/2-13 (#9).



Loosely Fasten: Do not completely fasten this hardware assemb at this time, as it will be completely fastened later in the assemb process.



ig. 3 Insert the **Center Upright (#19)** onto the receptacle located on e **Bottom Assembly Holder (#28)**, in the position as shown above, and ecure into place using one Hex Head Cap Screw 3/8-16 X 2 1/2 (#29), two at Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 46).

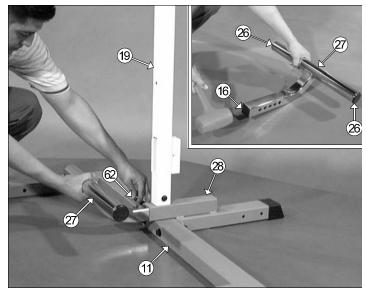
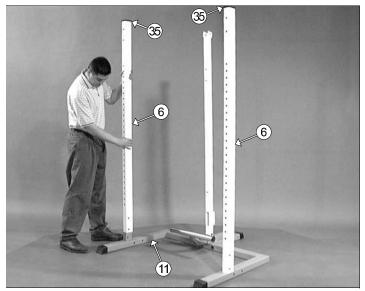


Fig. 4 Locate the **Adjustable Foot Support (#27)** and, using a rubbe mallet, insert two Plastic Insert Caps 2" Rd. (#26), and one Plastic Inse Cap 1 3/4 " Sq. (#16) into the tube-ends, as shown above. Insert the **Adjustable Foot Support (#27)**, with the selector holes facing th Push Pull Pin 1/2" (#62), into the receptacle of the **Bottom Assembl Holder (#28)**.

Note: Be sure to pull the Push Pull Pin 1/2" (#62) as you perform th assembly.



ig. 5 Insert the two Selectorized Uprights (#6) onto the receptacles cated on the Base Frame (#11), in the position as shown above with the ple pattern facing away from the unit.

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Note: The two Plastic Insert Caps 2 X 3 (#35) located on top of the **Selectorized Uprights (#6)** have been assembled by the factory.

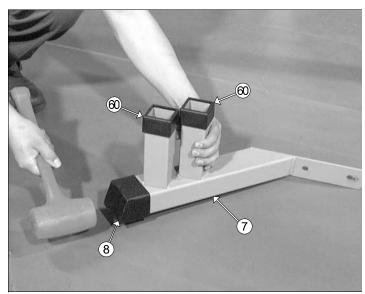
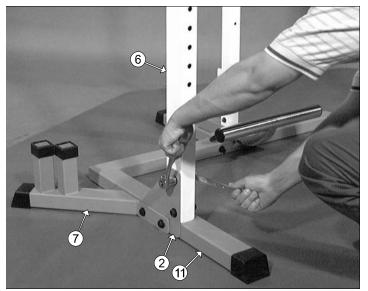


Fig. 6 Using a rubber mallet, insert one Plastic End Cap w/Groove 2 X (#8) onto the tube-end of the **Accessory Rack (#7)**.

Note: The two Plastic Tube Guides 2" Sq. (#60) located on the Ac cessory Rack (#7) have been assembled by the factory.



ig. 7 Attach the Accessory Rack (#7) and a Triangular Corner Plate (2) to the Base Frame (#11), in the position as shown above, using two ex Head Cap Screws 1/2-13 X 4 1/2 (#14), four Flat Washers SAE (2" (#10), and two Nylon Insert Lock Nuts 1/2-13 (#9). Next, affix the Trianular Corner Plate (#2) to the Selectorized Upright (#6) using two Hex ead Cap Screws 1/2-13 X 3 (#13), four Flat Washers SAE 1/2" (#10), and ro Nylon Insert Lock Nuts 1/2-13 (#9).



Coosely Fasten: Do not completely fasten this hardware assembly at this time, as it will be completely fastened later in the assembly process.

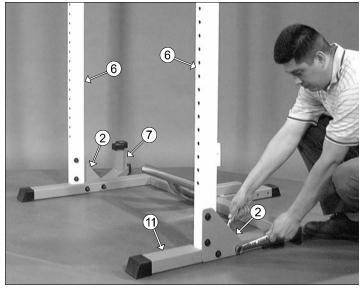
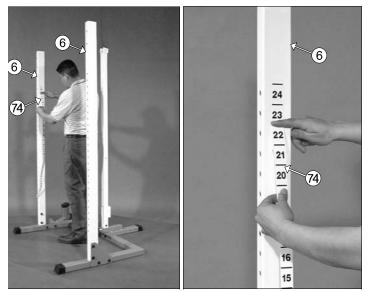


Fig. 8 Attach a **Triangular Corner Plate (#2)** to the **Selectorized Ur** right (#6), in the position as shown above, using two Hex Head Cap Screw 1/2-13 X 3 (#13), four Flat Washers SAE 1/2" (#10), and two Nylon Inse Lock Nuts 1/2-13 (#9). Next, affix the **Triangular Corner Plate (#2)** to th **Base Frame (#11)**, using two Hex Head Cap Screws 1/2-13 X 4 1/4 (#12 four Flat Washers SAE 1/2" (#10), and two Nylon Insert Lock Nuts 1/2-1 (#9).



Cosely Fasten: Do not completely fasten this hardware assemb at this time, as it will be completely fastened later in the assemb process.



Next, attach the Decal Numbers 1-24 (#74) on the inside of the ig. 9 electorized Uprights (#6). Center the number 24 with the top adjustment ble of the Selectorized Uprights (#6). A great way to make sure you don't ap any air bubbles under the decal is by using the wedge method. Press e side of your index finger against the decal and as you slide your finger own, with the other hand, slowly remove the rest of the backing off the deal.

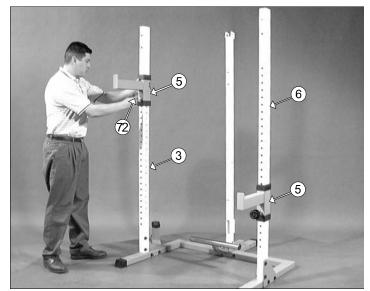
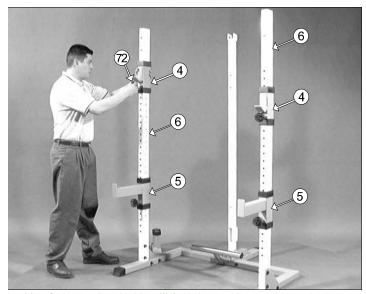


Fig. 10 Slide one Bar Safety (#5), in the position as shown above, ove each one of the Selectorized Uprights (#6). Be sure to pull the Turn Pu Pin w/Knob (#72) as you perform this assembly.



ig. 11 Slide one Bar Holder (#4), in the position as shown above, over ach one of the Selectorized Uprights (#6). Be sure to pull the Turn Pull in w/Knob (#72) as you perform this assembly.

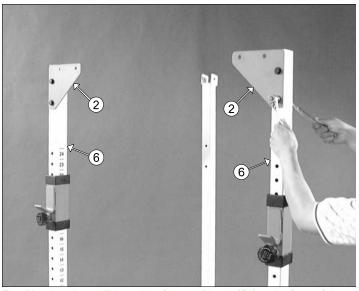
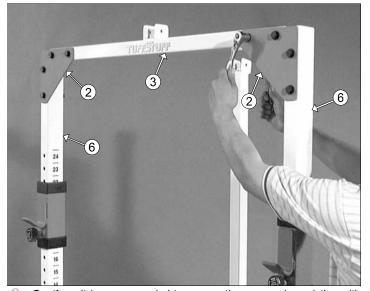


Fig. 12 Attach two Triangular Corner Plates (#2) to the front of the tw Selectorized Uprights (#6), in the position as shown above, using four He Head Cap Screws 1/2-13 X 4 1/4 (#12), eight Flat Washers SAE 1/2" (#10 and four Nylon Insert Lock Nuts 1/2-13 (#9).



Coosely Fasten: Do not completely fasten this hardware assemblat this time, as it will be completely fastened later in the assemblat. process.



Caution: It is recommended to use another person in assisting with this assembly.

ig. 13 Affix the **Top Stabilizer (#3)** to the two **Triangular Corner Plates (2)**, in the position as shown above, and secure it into place using four Hex ead Cap Screws 1/2-13 X 4 1/4 (#12), eight Flat Washers SAE 1/2" (#10), nd four Nylon Insert Lock Nuts 1/2-13 (#9).

CLoosely Fasten: Do not completely fasten this hardware assembly at this time, as it will be completely fastened later in the assembly process.

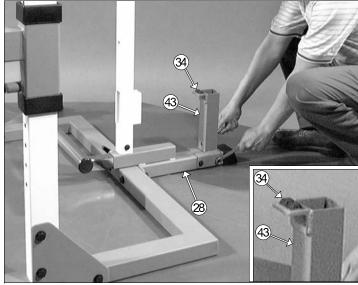
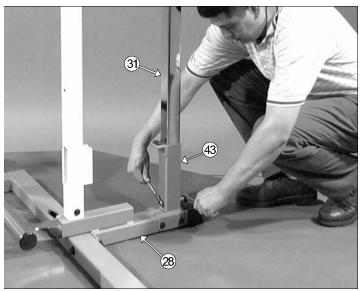


Fig. 14 Mount the **Chrome Post Receptacle (#43)** onto the **Bottom As sembly Holder (#28)**, in the position as shown above, and secure it int place using two Hex Head Cap Screws 3/8-16 x 4 (#32), four Flat Washer SAE 3/8" (#45), and two Nylon Insert Jam Lock Nuts 3/8-16 (#46).



Note: The two Pyramid Rubber Bumpers (#34) located on th **Chrome Post Receptacle (#43)** have been assembled by the fac tory.



ig. 15 Next, insert the **Chrome Post (#31)** into the **Chrome Post Re >ptacle (#43)**, in the position as shown above, and secure it into place sing one Hex Head Cap Screw 3/8-16 X 2 3/4 (#33), two Flat Washers AE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46). Refer to e Exploded View Diagram on page 18 for further illustration on this assemy.

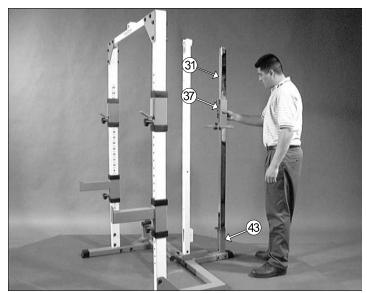
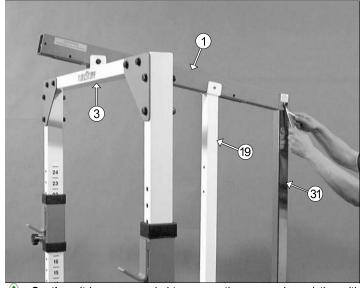


Fig. 16 Carefully slide the Weight Carriage (#37) onto the Chrome Pos (#31), with the weight prongs toward the inside of the unit, as shown above.

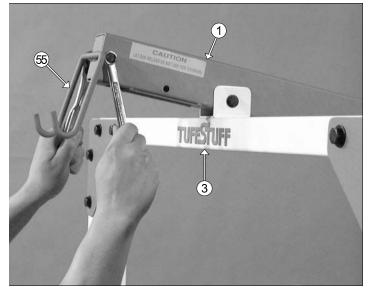


Caution: It is recommended to use another person in assisting with this assembly.

ig. 17 Insert the receptacle of the Top Pulley Housing (#1) onto the hrome Post (#31), then mount the Top Pulley Housing (#1) into the rackets of the Center Upright (#19), and the Top Stabilizer (#3). lext, secure the Top Pulley Housing (#1) to the Top Stabilizer (#3), and the Chrome Post (#31) using two Hex Head Cap Screws 3/8-16 X 2 3/4 #33), four Flat Washers SAE 3/8" (#45), and two Nylon Insert Jam Lock luts 3/8-16 (#46).

right (#19) at this time.

Note: Do not secure the Top Pulley Housing (#1) to the Center Up-



ig. 19 Attach the Lat Bar Holder (#55) to the Top Pulley Housing (#1) nd secure it into place using one Hex Head Cap Screw 3/8-16 X 2 1/2 ±29), two Flat Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 8-16 (#46).

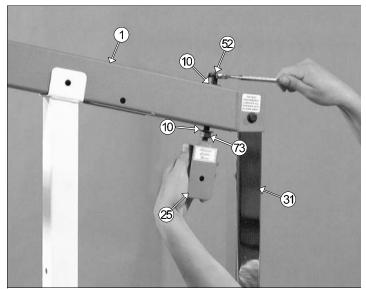


Fig. 18 Locate the Upper Swivel Bracket (#25) and thread a Regula Hex Nut 1/2-13 (#73) and insert one Flat Washer SAE 1/2" (#10). Nex insert the Upper Swivel Bracket (#25) into the Top Pulley Housing (#1 receptacle and secure it into place using one Flat Washer SAE 1/2" (#10 and one Nylon Insert Jam Lock Nut 1/2-13 (#52).



Coosely Fasten: Do not completely fasten this hardware assemble at this time to allow cable adjustment once the cable routing ha been completed.

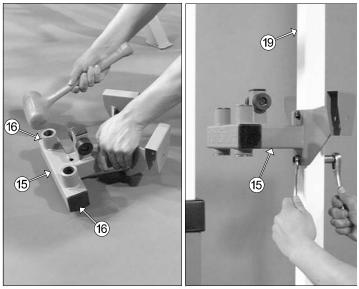
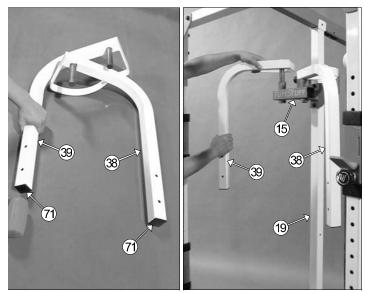


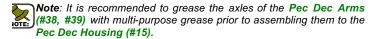
Fig. 20 Locate the Pec Dec Housing (#15) and, using a rubber malle insert two Plastic Insert Caps 2" SQ. (#16) into each of the tube-ends of th Pec Dec Housing (#15).

Next, affix the **Pec Dec Housing (#15)** to the **Center Upright (#19)** an secure it into place using two Hex Head Cap Screws 3/8-16 X 3 (#67), fou Flat Washers SAE 3/8" (#45), and two Nylon Insert Lock Nuts 3/8-16 (#48 Refer to the Exploded View Diagram on page 18 for further illustration of th assembly.



ig. 21 Locate the **Pec Dec Arm Lt. (#38)** and the **Pec Dec Arm Rt. (39)** and, using a rubber mallet, insert two Plastic Insert Caps 1 3/4" SQ. (71) into each of the tube-ends, as shown above.

ext, insert the axles of the Pec Dec Arm Lt. (#38) and the Pec Dec Arm t. (#39) into the Pec Dec Housing (#15), as shown above.



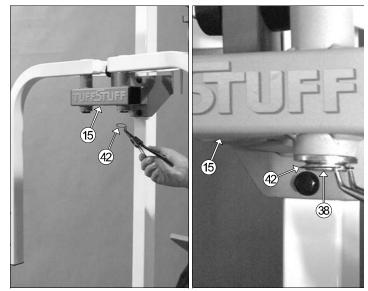
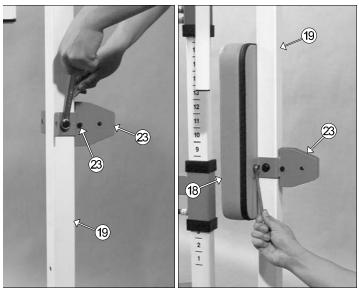


Fig. 22 Secure both **Pec Dec Arms (#38, #39)** to the **Pec Dec Housin** (#15) using two Exterior Retainer Rings (#42). Use a External retaining-rin pliers for this job. If this tool is not available, carefully work each Exteric Retainer Ring (#42) into the groove, then push-up alternately with a scre driver working the Exterior Retainer Ring (#42) into the groove.

bend them.

Note: Be careful not to distort the Exterior Retainer Rings (#42) (



ig. 23 Attach the **Back Pad Pulley Bracket (#23)** to the **Center Upright 19)** and secure it into place using one Hex Head Cap Screw 3/8-16 X 2 4 (# 33), two Flat Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock ut 3/8-16 (#46). Refer to the Exploded View Diagram on page 18 for furer illustration of this assembly.

Note: One Hex Head Cap Screw 1/4-20 X 1 1/2 (#68), and one Nylon Insert Lock Nut 1/4-20 (#69) have been assemble to the **Back Pad Pulley Bracket (#23)** by the factory. This assembly works as a cable retainer.

ext, attach the **Back Pad (#18)** to the **Back Pad Pulley Bracket (#23)**, in e position as show above, using two Hex Head Cap Screws 3/8-16 X 1 1/4 ¹83), and two Flat Washers SAE 3/8" (#45).

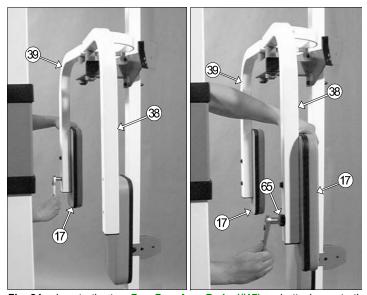
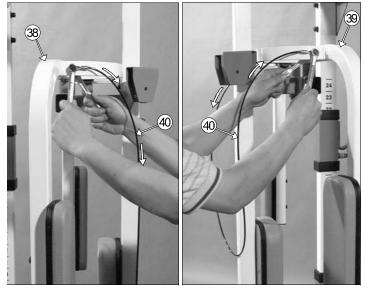


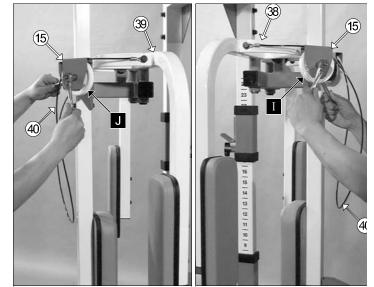
Fig. 24 Locate the two Pec Dec Arm Pads (#17) and attach one to th Pec Dec Arm Rt. (#39) using two Hex Head Cap Screws 3/8-16 X 2 3/ (#33), and two Flat Washers SAE 3/8" (#9), as shown above. Next, attach the other Pec Dec Arm Pad (#17) to the Pec Dec Arm L (#38) using one Hex Head Cap Screws 3/8-16 X 3 1/4 (#82), one Rubbe Bumper 3/8 X 1 1/2 (#65), one Hex Head Cap Screw 3/8-16 X 2 3/4 (#33 and one Flat Washers SAE 3/8" (#45), as shown above.



ig. 25 Begin routing the Pec Dec Cable (#40) by attaching it to the Pec ec Arm Rt. (#38) using one Hex Head Cap Screw 3/8-16 X 1 (#47), two at Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 46). Repeat the same procedure to attach the Pec Dec Cable (#40) to e Pec Dec Arm Lt. (#38).



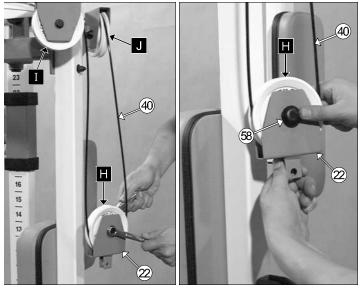
Note: Refer to the Cable Mapping Diagram on page 18 for further clarification of the Pec Dec Cable (#40) routing.



Next, insert the Pec Dec Cable (#40) through the pulley bracke Fig. 26 on the Pec Dec Housing (#15) and install one Nylon Pulley 4 1/2" Rd. (#20 Labeled J). Secure it into place using one Hex Head Cap Screw 3/8-16 X 3/4 (#30), two Flat Washers SAE 3/8" (#45), and one Nylon Insert Jam Loc Nut 3/8-16 (#46). Repeat the same procedure to route and secure the Pe Dec Cable (#40) through the pulley bracket on the opposite side of the Pe Dec Housing (#15).



Note: The black boxed letters pointing to the pulleys are use throughout this manual as reference to the Cable Mapping Diagram on page 18 These black boxed letters will be primarily used for loca ing certain pulleys during the cable routing process beginning wit Fig. 26.

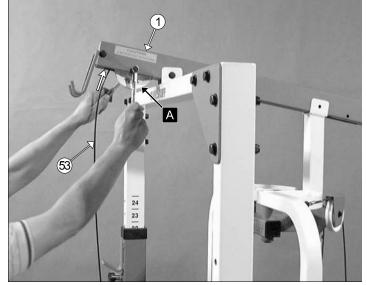


ig. 27 Next, insert one Nylon Pulley 4 1/2" Rd. (#20-Labeled H) and the ec Dec Cable (#40) into the Pec Dec Floating Pulley Bracket (#22) and scure them into place using one Hex Head Cap Screw 3/8-16 X 1 1/2 70), two Steel Bumper Washers 3/8" (#58), and one Nylon Insert Jam ock Nut 3/8-16 (#46).

ext, snap one Plastic Bumper End Cap (#57) over each Steel Bumper lasher 3/8" (#58). Place the Plastic Bumper End Cap (#57) over one edge the Steel Bumper Washer 3/8" (#58) and use gentle pressure with the umb to snap the Plastic Bumper End Cap (#57) into place.

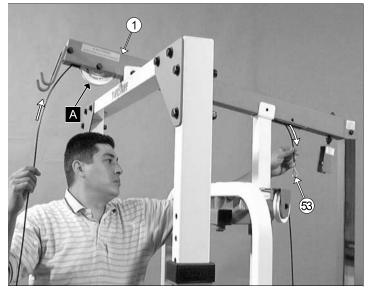


Note: Refer to the Exploded View Diagram and Cable Mapping Diagram on page 18 for further clarification of this assembly.



Insert the Lat Cable (#53) and a Nylon Pulley 4 1/2" Rd. (#20 Fig. 28 Labeled A) into the pulley bracket located on the Top Pulley Housing (#1 as shown, then secure the Nylon Pulley 4 1/2" Rd. (#20-Labeled A) int place using one Hex Head Cap Screw 3/8-16 X 2 1/2 (#29), two Flat Wast ers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46).



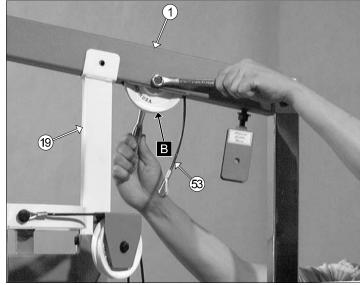


Route the end of the Lat Cable (#53) through the Top Pulley ig. 29 ousing (#1) tube. Next, pull gently the Lat Cable (#53) down through the lot on the bottom side of the Top Pulley Housing (#1).

Caution: Do not pull the Lat Cable (#53) all the way through the Top Pulley Housing (#1) until you have installed the Nylon Pulley 4 1/2" Rd. (#20-Labeled B), as this will prevent any damage to the Cable. See Fig. 30.



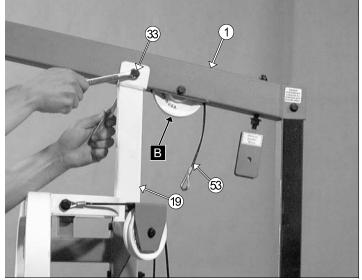
Note: Refer to the Cable Mapping Diagram on page 18 for further detailed illustration of the Lat Cable (#53) routing.



Insert one Nylon Pulley 4 1/2" Rd. (#20-Labeled B) into the slot (Fig. 30 the Top Pulley Housing (#1), in the position as shown above, and secure into place using one Hex Head Cap Screw 3/8-16 X 2 1/2 (#29), two Fla Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46 Be sure the Lat Cable (#53) is routed properly into the pulley's groove.



Note: Refer to the Cable Mapping Diagram on page 18 for furthe detailed illustration of the Lat Cable (#53) routing.



ig. 31 Secure the Top Pulley Housing (#1) to the Center Upright (#19) sing one Hex Head Cap Screw 3/8-16 X 2 3/4 (#33), two Flat Washers AE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46).



Caution: To prevent damage to the Lat Cable (#53), it is important to make sure that the Lat Cable (#53) is routed over the top, and not under the Hex Head Cap Screw 3/8-16 X 2 3/4 (#33).

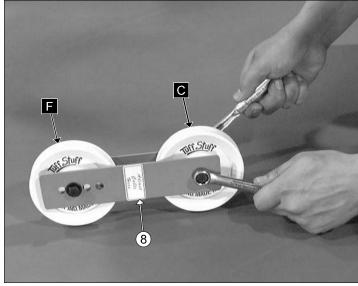
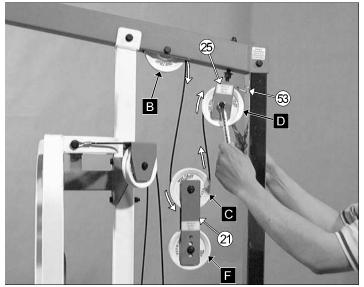


Fig. 32 Assemble the two Double Pulley Plates (#21) using two Nylo Pulleys 4 1/2" Rd. (#20-Labeled C and F), two Hex Head Cap Screws 3/8 16 X 1 3/4 (#30), four Flat Washers SAE 3/8" (#45), and two Nylon Inse Jam Lock Nuts 3/8-16 (#46).

Note: The four holes on the Double Pulley Plates (#21) are used t adjust the cable tension once the cable routing has been completed.



ig. 33 Route the Lat Cable (#53) through the Double Pulley Plates **f21**) and under the Nylon Pulley 4 1/2" Rd. (#20-Labeled C). Next, insert the Cable and one Nylon Pulley 4 1/2" Rd. (#25-Labeled D) into the Upper wivel Bracket (#25), in the position as shown above. Secure the Pulley to place using one Hex Head Cap Screw 3/8-16 X 1 3/4 (#30), two Flat /ashers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46).

Note: Refer to the Cable Mapping Diagram on page 18 for further detailed illustration of the Lat Cable (#53) routing.

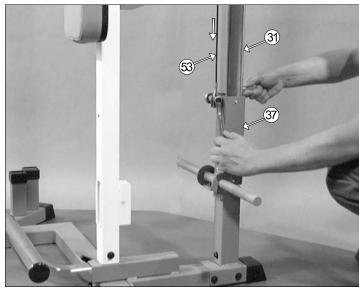
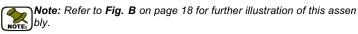
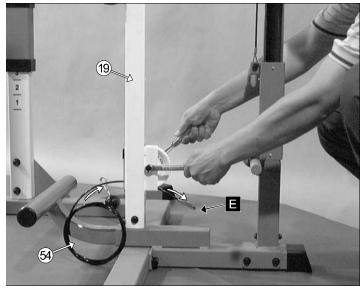


Fig. 34 Next, route the Lat Cable (#53) down and secure the looped en to the bracket on the Weight Carriage (#37) using one Hex Head Ca Screw 3/8-16 X 1 (#47), and one Nylon Insert Jam Lock Nut 3/8-16 (#46).





ig. 35 Route the Low Row Cable (#54) through the Center Upright's (#19) pulley bracket, then insert one Nylon Pulley 4 1/2" Rd. (#20-Labeled) into the Center Upright's (#19) pulley bracket and secure it into place sing one Hex Head Cap Screw 3/8-16 X 1 3/4 (#30), two Flat Washers AE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 (#46). Be sure to Low Row Cable (#54) is routed properly into the pulley's groove.

Note: Refer to the Cable Mapping Diagram on page 18 for further detailed illustration of the Low Row Cable (#54) routing.

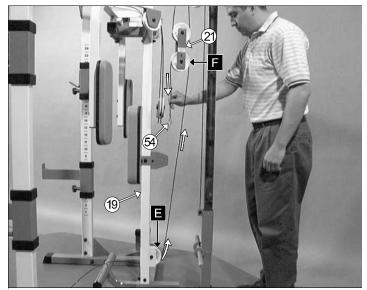
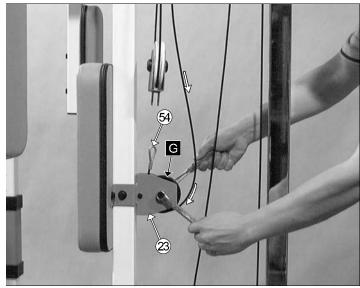


Fig. 36 Continue routing the Low Row Cable (#54) up and over the N_3 lon Pulley 4 1/2" Rd. (#20-Labeled F) and through the Double Pulley Plate (#21), as shown above.





ig. 37 Next, insert the **Low Row Cable (#54)** and the Nylon Pulley 3 1/2" id. (#24-Labeled G) into the **Back Pad Pulley Bracket (#23)** and secure tem into place using one Hex Head Cap Screw 3/8-16 X 1 3/4 (#30), two lat Washers SAE 3/8" (#45), and one Nylon Insert Jam Lock Nut 3/8-16 #46). Be sure the **Low Row Cable (#54)** is routed properly into the pulley's roove.



Note: Refer to the Cable Mapping Diagram on page 18 for further detailed illustration of the **Low Row Cable (#54)** routing.

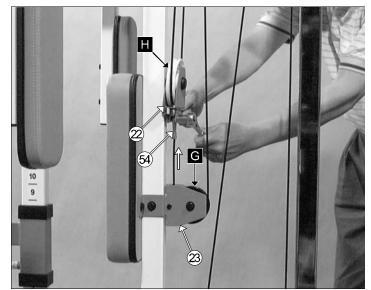
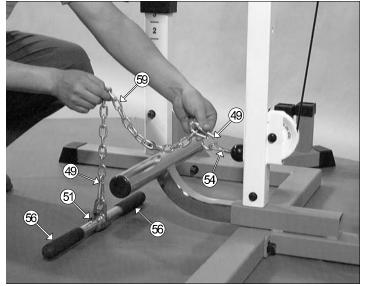


Fig. 38 Affix the Low Row Cable (#54) to the Pec Dec Floating Pulle Bracket (#22) using one Hex Head Cap Screw 3/8-16 X 1 (#47), and on Nylon Insert Jam Lock Nut 3/8-16 (#46). Refer to **Fig. C** on page 18 fc further illustration of this assembly.



Note: Refer to the Cable Mapping Diagram on page 18 for furthe detailed illustration of the **Low Row Cable** (#54) routing.



ig. 39 Insert two Hard Grips 1 X 6 (#56) onto each of the tube-ends of e Low Row Bar (#51).

Note: Use Windex or household glass cleaner for easy insertion of the Hard Grips 1 X 6 (#56).

ext, connect the Low Row Bar (#51) to the Low Row Cable (#54) using e Coil Chain 3/16" X 21 (#59), and two Snap Links (#49), as shown above.

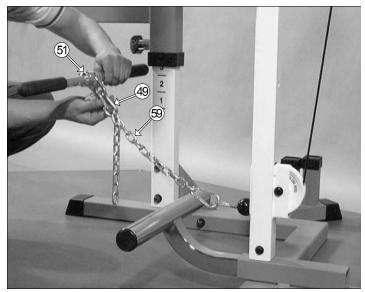
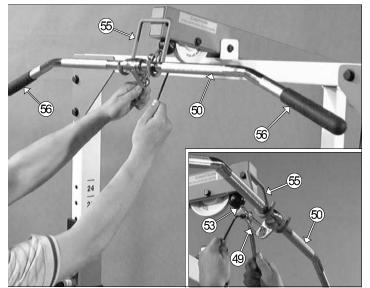


Fig. 40 Multiple starting exercise positions can be achieved by connectin the Low Row Bar to the Coil Chain Links with out loosing traveling range o the Weight Carriage.



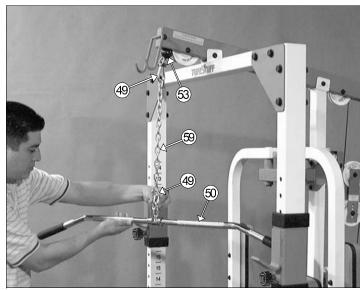
Note: Optional Cable Attachments can be utilized within the sam manner, for example: D Handle, Ankle Strap, etc.



Insert two Hard Grips 1 X 6 (#56) onto each of the tube-ends of ig. 41 e Lat Bar (#50).

Note: Use Windex or household glass cleaner for easy insertion of the Hard Grips 1 X 6 (#56).

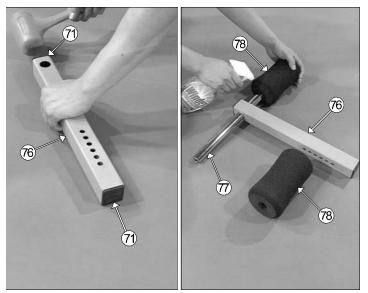
ext, mount the Lat Bar (#50) onto the Lat Bar Holder (#55) and affix it to e Lat Cable (#53), in the position as shown above, using one Snap Link 22), one Shoulder Bolt 3/8 X 3/4 (#63), and one Nylon Insert Lock Nut '16-18 (#66). Use the supplied Hex Key 3/16" (#81) and a 1/2" combinaon wrench to fasten this assembly properly. Refer to Fig. A on page 18 for rther illustration of this assembly.



Multiple starting exercise positions can be achieved by using th Fig. 42 Coil Chain as an extension to connect the Lat Bar to the Lat Cable with ou loosing traveling range on the Weight Carriage.



Note: Optional Cable Attachments can be utilized within the sam Note: manner, for example: Tricep Bar, D Handle, etc.



ig. 43 Locate the Leg Hold-Down Tube (#76) and, using a rubber malst, insert two Plastic Insert Caps 1 3/4" Sq. (#71) into each of the tubends.

lext, insert the Foot Roll Tube (#77) into the receptacle of the Leg Holdown Tube (#76), then insert two Foam Foot Rolls 7 X 4 X 1 (#78) over ach of the tube-ends of the Foot Roll Tube (#77), as shown above.



Note: Use Windex or household glass cleaner for easy insertion of the Foam Foot Rolls 7 X 4 X 1 (#78).

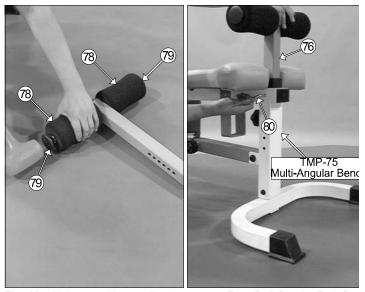
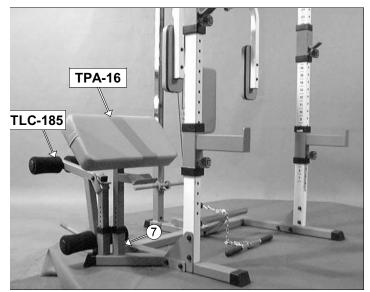


Fig. 44 Using a rubber mallet, insert two Foot Roll Plastic End Cap 1" (#79) into each of the tube-ends of the Foot Roll Tube (#77). Next, insert the Leg Hold Down Assembly into the receptacle of the *TMI 75 (Multi-Angular Bench). Use the L-Locking Pin (#80) to Adjust the Le Hold Down Assembly to the desired height.

*Assembly Instructions for the TMP-75 (Multi-Angular Bench) come in it own box.



ig. 45 Once assembled or when not in use, the **TLC-185** Leg Extension/ url and the **TPA-16** Preacher Curl can be stored on the Accessory Rack, s illustrated above.

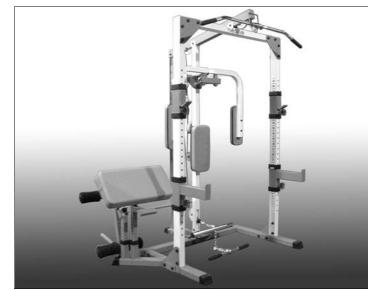


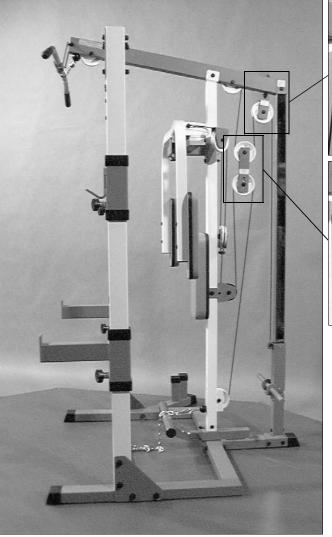
Fig. 46 This concludes the assembly of the **TDH-345**. Do a careful inspection of each and every assembly and make sure they ar done properly to ensure a safe and smooth operation.

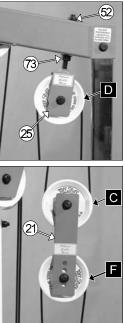


Fully Fasten: Proceed to align and fully fasten all the previous a semblies that were left loosely fastened.



CABLE ADJUSTMENT DIAGRAM





Minor Cable Adjustment: Use the Upper Swivel Pulley Bracket (#25)

- 1. Loosen the bottom Finished Hex Nut 12-13 (#73).
- 2. Adjust the top Nylon Insert Lock Nut 1/2-13 (#52) to give the cable proper tension.
- 3. Re-tighten the bottom Finished Hex Nut 12-13 (#73) to complete the cable adjustment.

Major Cable Adjustment: Use the Double Pulley Plates (#21)

- Remove the hardware from the Nylon Pulley 4 1/2" Rd. (#20-Labeled F) located at one of the four holes on the Double Pulley Plates (#21).
- By interchanging the Nylon Pulley 4 1/2" Rd. (#20-Labeled F) in the Double Pulley Plates (#21) to the next adjustment hole it will make one inch cable adjustment.
- 3. Re-tighten the hardware for the Nylon Pulley 4 1/2 Rd. (#20-Labeled F) to complete the cable adjustment.

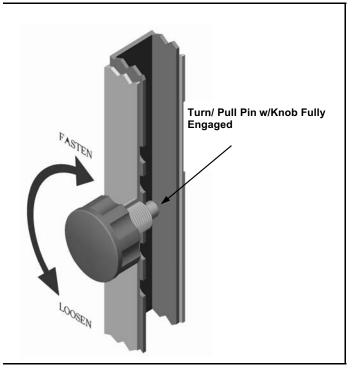


${\mathcal M}$ aintenance Information

1. Lubrication of all moving parts is essential to the longevity and optimal performance of your Half Cage Ensemble. Initial lubrication of some parts of your gym have been done at the factory, but the **Chrome Post (#31)** must be lubricated regularly. We recommend a clear aerosol, silicone or teflon spray.

Note: Do not use oil based lubricants as they will attract dust, dirt and grime, and will eventually gum up and erode bushings and sealed bearings.

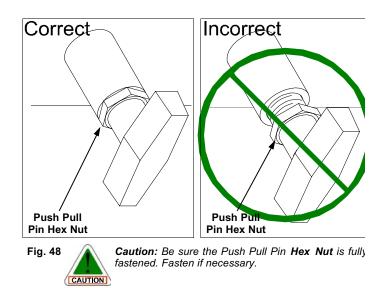
- 2. All pulleys and bushings should be checked regularly for signs of wear.
- 3. Check and adjust tension on cables periodically as it will maintain proper anatomical function.
- 4. Periodically check all parts for signs of wear or damage. If there is a problem or replacement of a part is necessary, STOP USING THE EQUIPMENT and immediately contact your local Tuff Stuff retailer or call our Customer Service Department. Replace parts using only genuine Tuff Stuff parts.
- 5. Check welds to be free of cracks.





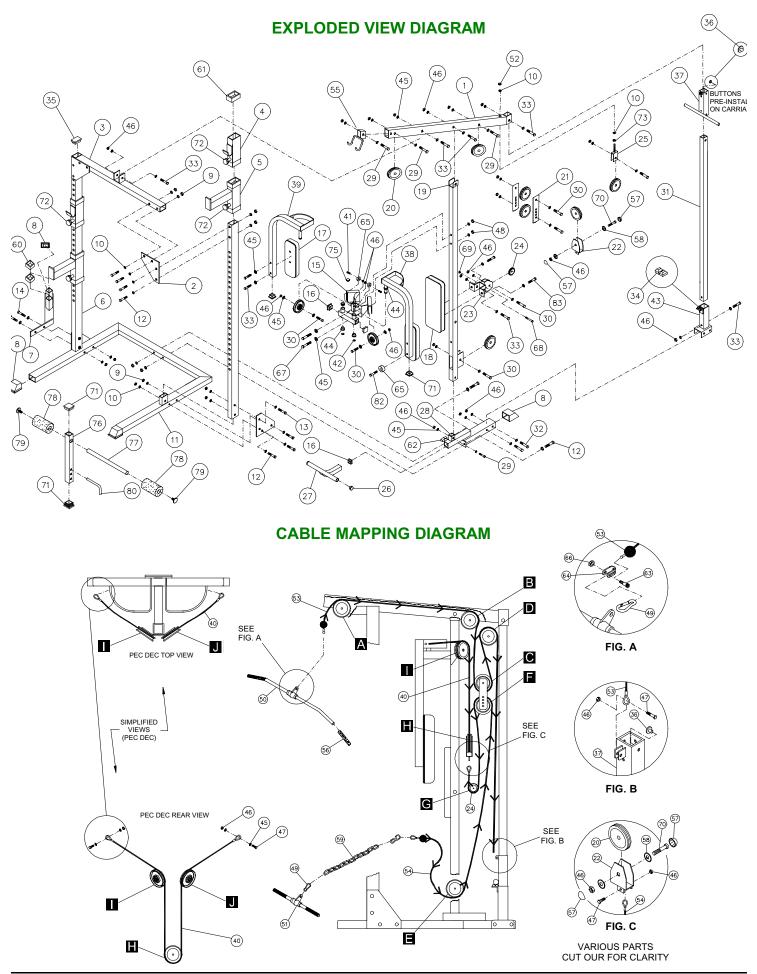
Caution: Check that all Turn/ Pull Pins w/Knob (#72) are fully engaged into the selectorized holes.

- 6. Chrome plated surfaces should be cleaned regularly to prolong the life and luster of the finish. Wipe machine down with a damp cloth and dry thoroughly each day or a needed.
- 7. When checking the bolts and nuts, be sure they are a fully fastened. If there is a bolt or nut that continuousl loosens obtain a replacement thru your local Tuff Stuff re tailer or call our Customer Service Department.
- 8. Pay special attention to the Turn/ Pull Pins w/Knob (#72 located on the Bar Holders (#4) and the Bar Safetie (#5). Be sure they are fully engaged into the selectorize holes of the Selectorized Uprights (#6). Refer to Fig. 4 for further illustration.
- Check that the Push Pull Pin 1/2" (#62) Hex Nut locate on the Bottom Assembly Holder (#28) is fully fastene (See Fig. 48) in addition, be sure the spring in the Pusl Pull Pin 1/2" (#62) is operating freely.
- 10.Failure to perform routine maintenance could result i personal injury and/or equipment damage.





COLOR	CHART SUB-ASSEMBLY PARTS	1	TDH	-345			
	HARDWARE	F	Part	's List	•		
		-		5 2151			
Item No.	Description	Part No.	Qty	Item No.	Description	Part No.	Qty
1	TOP PULLEY HOUSING	UP0722	1	43	CHROME POST RECEPTACLE	UP0730	1
2	TRIANGULAR CORNER PLATE	UP0101	4	44	BRONZE BUSHING 1 X 1 1/4 X 3/4	BNH0527	4
3	TOP STABILIZER	UP0723	1	45	FLAT WASHER SAE 3/8	BNH0239	56
4	BAR HOLDER W/SOLID HOOK	UP0704	2	46	NYLON INSERT JAM LOCK NUT 3/8-16	BNH0365	26
5	BAR SAFETY SPOTTER W/SOLID HOOK	UP0702	2	47	HEX HEAD CAP SCREW 3/8-16 X 1	BNH0275	4
6	SELECTORIZED UPRIGHT	UP0724	2	48	NYLON INSERT LOCK NUT 3/8-16	BNH0214	2
7	ACCESSORY RACK	UP0725	1	49	SNAP LINK	BNH0065	3
8	PLASTIC END CAP 2 X 3 W/GROOVE	BNH0049	4	50	LAT BAR 48"	BNH0295	1
9	NYLON INSERT LOCK NUT 1/2 -13	BNH0212	18	51	LOW ROW BAR 20"	BNH0294	1
10	FLAT WASHER SAE 1/2	BNH0238	38	52	NYLON INSERT JAM LOCK NUT 1/2-13	BNH0366	1
11	BASE FRAME	UP0726	1	53	LAT CABLE	UP0618	1
12	HEX HEAD CAP SCREW 1/2-13 X 4 1/4	BNH0291	12	54	LOW ROW CABLE	UP0514	1
13	HEX HEAD CAP SCREW 1/2-13 X 3	BNH0264	4	55	LAT BAR HOLDER 2 X 3	UP0096	1
14	HEX HEAD CAP SCREW 1/2-13 X 4 1/2	BNH0265	2	56	HARD GRIP 1 X 6	BNH0296	4
15	PEC DEC HOUSING	UP0547	1	57	PLASTIC BUMPER END CAP	BNH0412	2
16	PLASTIC INSERT CAP 2" SQ	BNH0012	3	58	STEEL BUMPER WASHER 3/8"	BNH0498	2
17	PEC DEC ARM PAD	UP0548	2	59	COIL CHAIN 3/16 X 21	BNH0017	1
18	BACK PAD	UP0112	1	60	PLASTIC TUBE GUIDE 2" SQ	BNH0058	2
19	CENTER UPRIGHT	UP0727	1	61	PLASTIC TUBE GUIDE 2 1/2 X 3 1/2	BNH0057	8
20	NYLON PULLEY 4 1/2 RD	BNH0556	9	62	PUSH-PULL PIN 1/2"	BNH0515	1
21	DOUBLE PULLEY PLATE	UP0092	2	63	SHOULDER BOLT 3/8 X 3/4	BNH0718	1
22	PEC DEC FLOATING PULLEY BRACKET	UP0110	1	64	STRAP BRACKET #20	BNH0562	1
23	BACK PAD PULLEY BRACKET	UP0111	1	65	RUBBER BUMPER 3/8 X 1 1/2	BNH0514	3
24	NYLON PULLEY 3 1/2" RD	BNH0553	1	66	NYLON INSERT LOCK NUT 5/16-18	BNH0215	1
25	UPPER SWIVEL BRACKET	UP0149	1	67	HEX HEAD CAP SCREW 3/8-16 X 3	BNH0264	2
26	PLASTIC INSERT CAP 2" RD	BNH0004	2	68	HEX HEAD CAP SCREW 1/4 -20 X 1 1/2	BNH0272	1
27	ADJUSTABLE FOOT SUPPORT	UP0109	1	69	NYLON INSERT LOCK NUT 1/4 -20	BNH0213	1
28	BOTTOM ASSEMBLY HOLDER	UP0728	1	70	HEX HEAD CAP SCREW 3/8-16 X 1 1/2	BNH0303	1
29	HEX HEAD CAP SCREW 3/8-16 X 2 1/2	BNH0276	4	71	PLASTIC INSERT CAP 1 3/4 SQ.	BNH0053	2
30	HEX HEAD CAP SCREW 3/8-16 X 1 3/4	BNH0274	7	72	TURN PULL PIN W/KNOB	BNH0929	4
31	CHROME POST	UP0729	1	73	REGULAR HEX NUT 1/2-13	BNH0201	1
32	HEX HEAD CAP SCREW 3/8-16 X 4	BNH0285	2	74	DECAL NUMBERS 1-24	BNH0147	2
33	HEX HEAD CAP SCREW 3/8-16 X 2 3/4	BNH0278	8	75	PLASTIC INSERT CAP 1 1/4 SQ.	BNH0010	1
34	PYRAMID RUBBER BUMPER	BNH0013	2	76	LEG HOLD-DOWN TUBE	UP0266	1
35	PLASTIC INSERT CAP 2 X 3	BNH0052	2	77	FOOT ROLL TUBE	UP0053	1
36	NYLON STEM BUTTON 3/16	BNH0533	12	78	FOAM FOOT ROLL 7 X 4 X 1	BNH0043	2
37	WEIGHT CARRIAGE 21"	UP0118	1	79	FOOT ROLL PLASTIC END CAP 1"	BNH0397	2
38	PEC DEC ARM LT	UP0545	1	80	L-LOCKING PIN	BNH0045	1
39	PEC DEC ARM RT	UP0546	1	81	HEX KEY 3/16"	BNH0371	1
40	PEC DEC CABLE	UP0541	1	82	HEX HEAD CAP SCREW 3/8-16 X 3 1/4	BNH0312	1
41	HEX HEAD CAP SCREW 3/8-16 X 3/4	BNH0283	2	83	HEX HEAD CAP SCREW 3/8-16 X 1 1/4	BNH0273	2
42	EXTERIOR RETAINER RING	BHN0419	2			2	<u> </u>



DO NOT DISCARD THIS MANUAL



HOME LIFETIME WARRANTY

TuffStuff products are warranted to the retail purchaser to be free from defects in materials and workmanship. TuffStuff exclusive Home Lifetime Warranty coverage extends for the life of the product while owned by the original retail purchaser, and used only in a home or residential setting unless otherwise noted in the owner's manual.

This warranty does not cover:

- 1. TuffStuff products sold for and used in a commercial or institutional setting.
- 2. Any damage, failure or loss caused by accident, misuse, neglect, abuse, improper assembly, improper maintenance, or failure to follow instructions or warnings in the owner's manual and warning labels posted on the machine.
- 3. Use of products in a manner for which they were not designed.
- 4. Original product that is altered, or the use of replacement parts and components of another manufacturer other than TuffStuff.

Limitations:

The foregoing shall constitute the sole remedy of the purchaser and the sole liability of TuffStuff with regard to warranty, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness. TuffStuff shall in no event be liable for incidental or consequential losses, damages or expenses in connection with exercise products. TuffStuff's liability hereunder is expressly limited to the repairs or replacements of warranted defective parts.

Procedures:

Warranty service will be performed at TuffStuff's facility in Pomona, California. TuffStuff will have the option of either repair or replacement at no charge for any defective product. Purchaser is responsible for installation of repaired or replaced parts and all transportation and insurance costs on returned or replaced equipment to and from TuffStuff's facility in Pomona.

This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Effective July 1, 2004.

This warranty is the final, complete and exclusive agreement of the parties with respect to the quality or performance of the equipment and no action for breach of this written warranty or any implied warranty shall be commenced more than one (1) year after the accrual of the cause of action. No modification of this warranty or waiver of its terms shall be binding on either party unless approved in writing by an authorized representative of the party. Contact TuffStuff at 1325 E. Franklin Avenue, Pomona, California 91766, before returning any defective equipment.

Note: Retain your sales receipt and be sure to mail in the warranty registration card to insure that a permanent record of your purchase is on file with the factory and to avoid unnecessary delays in warranty service.

TASK INDUSTRIES, INC.

1325 E. Franklin Ave., Pomona, CA 91766 Ph: 909-629-1600 Fax: 909-629-4967 E-mail: service@tuffstuff.net Net: www.tuffstuff.net