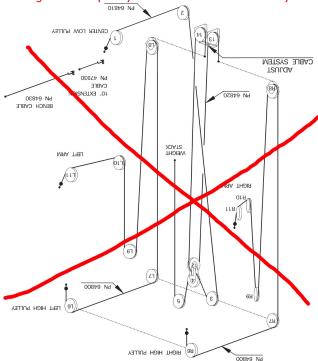
Scroll down to see double swivel cable diagram. Older single swivel pulley cables shown immediately below.



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Vectra VFT-100 Cable Diagram

Vectra VFT-100 Limited Warranty

Lettra Fitness, Inc. warrants, to the original owner only, this Yectra YTT-100 to be free from defects in materials and workmanship for component specific periods as outlined below. Purchaser must retain bill of sale to establish warranty rights. This warranty is valid only if machine is purchased from a Yectra authorize defeler. Defective parts will be repaired or replaced at Yectra's option, when returned to Yectra Fitness, Inc., prepaid with prior authorization. No allowances for lat will be made.

Cables 1 year

Warranty Period: (All periods are from date of purchase by original consumer)

Structural Frame 10 years

Weight Stack 5 years	Bearings 1 year
Guide Rods 5 years	Upholstery 1 year
Pulleys 5 years	Other parts not listed 1 year
Home use is defined as use in a family's	s home by the members of that family.
Commercial/Institutional use:	
Structural Frame 5 years	Cables 1 year
Weight Stack 5 years	Bearings 1 year
Guide Rods 5 years	Upholstery 1 year
Pulleys 1 year	Other parts not listed 1 year

Conditions and Exceptions: Failures due to normal wear, damage, misuse, abuse, neglect, alteration, improper assembly, repairs other than by an authorized Vector Service Center, or lack of maintenance are not covered. Use of a weight stack that is heavier than the heaviers task: that Vector Tribuses sells for use on the mean visible this warranty does not cover damages unstained during shipment. Title passes to object upon delivery to carrier. If products to object upon delivery to carrier. If products or those upon used to service the product of the prod

Repairs to the Structural Frame and Weight Stack will be made only if such repairs are necessary to make the machine functional as designed. Repairs for othe regard to the Subcound in Faunt-did weight is seen with the linear only it is sub-linear as a product regard as one closed say to what the missime faunt-main and as betagreet, regard to write the reasons will not be made. Cosmetics as an end covered by this warrangh, This is a powder coated steel product, and as such real-resistant in most bettings. Any rusting another correspons in sometiety dustised the scope of this warrangh, Dones who live in humid climates or intend to install this machine in a humid area such a could could contain a good point of the country of the containing th the responsibility of the owner.

It is our policy to replace components rather than entire machines or assemblies. It is also our policy to repair rather than replace frame components. Such repairs of structural parts will be made using appropriate technology and may be visible. Repaired items will be repainted as needed, but the new paint may not match

of structural parts will be made using appropriate technology and may be visible. Replace tens will be repained as needed, but the new paint may not match the old.

Replacement and Replacement and Replacement parts or repair to parts under this warranty, and will pay for standard ground stability and the payon of th

Consumers Rights: This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Vectra Fitness Inc Kent, WA 98032 U.S.A www.vectrafitness.com

Protected by one or more of the following Patent Numbers: RE34,572; 4,900,018; 4,986,538; 5,386,148; 5,378,216; 5,395,295; 5,462,510; 5,605,523; 5,672,143; 5,779,601 6,482,135; 6,508,748; 6,582,346; 6,994,660; D320,246; D320,247; D320,248; D329,563; D454,168; D457,581; D460,508; D462,731; CN1,309,738; CN2,023,972; 13,117,451

Other U.S. and foreign patents pending. Vectra and On-Line are registered trademarks of Vectra Fitness, Inc. ARC (Automatic Ratcheting Cam), AL (Arm-Leg), Vector, VFT, and Cornerstone are trademarks of Vectra Fitness, Inc.

PN 64780 Rev. 2/06 ©2006 Vectra Fitness, Inc.

Replace any warning or caution labels on product if damaged, illegible or removed.

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11. Do not drop the weight plates. Lift only as much weight as you can control safely. Never use dumbbells or other means to incrementally increase the weight resistance. Use only second means to incrementally increase the weight resistance. Use only second means according to the causing the second means of the cause of the caus

not pin the weight stack or top plate in an elevated position and do not use the machine if found in this condition. .00. Obtain assistance to free jammed weight plates, pulleys, etc. Do not attempt to free Jammed weight plates by yourself. Falling weight plates can cause serious injury. Do Ensure that the tooking mechanisms are properly engaged prior to lifting, Leoking mechanisms are the property engaged option to lifting, Leoking such as the above and the property and the property and the property and the property engaged looking mechanism could result in an injury, developers, etc., An improperty engaged looking mechanism could result in an injury.

 Ensure that the weight selector pin is in good working condition and fully engaged in the selector shaft prior to litting. Use only the Vectra supplied pin or a Vectra authorized iffgiew reaked, a peldes nown to beyed, begaments strated more actives great in Verget of the great peldes are set need gette citizen to another set of the set of th

6. Keep body, hair and clothing clear of weights and moving parts at all times. Keep fingers clear of moving parts while making adjustments.

5. Do not allow young children to use or play with or stound this machine. Allow older children to use the machine only with adult supervision. 4. Consult your physician before beginning your exercise program.

 Reed and fellow all instructions in your Owner's Meanal, the labels on the product and
on your exercise central definations to the series are available from Vectra 4 ritness. Inc. or your
dealer, to not use this meatonine until you have baken the time to become completely
familiar with its safe operation. SUCH AS WEAR OR FRAYING.

WARATOW TO BE CALL IT THE A STUCK by falling weight or moving parts. The risk that I should be considered by obeying a few simple rutes. The considered by obeying a few simple rutes. It is more flast by the of equipment can be reduced by obeying a few simple rutes are near the considered by the considered a simple reduced by the considered and the considered rutes are near the first part of the considered rutes are sent of the considered and the considered rutes are near the first part of the considered rutes are sent of the considered rutes are near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the considered by the considered rutes are not not near the near the considered by the considered rutes are not not near the near the considered by the considered rutes are not not near the near the

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Safety Rules

PERFORM THE FOLLOWING CHECKS MONTHLY:

* If any bolts seem to loosen periodically, use Locüle 242 for a long-term cure.

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4. Dieson upholsterwym'hm mid soap and wakter se destrect.
5. Li unist is na humid sera, such as oreas a pool, host tub or sauna, or in certain cilmates,
5. It unist is na humid sera, should edelay rus'inng.
6. Use of an auto wax should edelay rus'inng.

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 Z. Inspect allowing the sets of creaked, amaged bushings, etc. Replaces in recessary. Chreck bolt, Egitnen in recessary.
 Detail replace in recessary.
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13. Adjust cable system tension if necessary (see assembly instructions for details). 4. Inspect all mediced parts outs as guilley, inyloin bushings and cable stops. Make weeter exposered that should have for each as fall and expect all mediced parts outs as guilley service any parts that that sings, when or damaged.
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Inspect pulley arm adjustment lever for proper function. Ensure that latch pin is engaging each position fully. Replace improperly functioning parts with Vectra mproperly functioning pin (or other stack components) with Vectra replacement

Inspect abothers all during inspire in group his remothers (aboth inspired source) in control in the control in

arpect frame and pulley bolts for tightness. Tighten if necessary.*

PERFORM THE FOLLOWING CHECKS WEEKLY:

agedorias rasiga habiban agedorias rasiga pundo pund adequate safety program.

PERFORM THE FOLLOWING SAFETY CHECK DAILY:

The Vectra VFT-100 is designed to provide years of trouble-free service with

& Maintenance Routine Inspection

This owner's manual provides you with safety rules, assembly instructions and routine maperized from your gramment information to enable you to get the most from your gym. Hease read through this manual carefully before you assemble and use your YFT-100.

e at Vectea appreciate your uselecting our VFT-100 for your filness pleased with program, and invite your questions and comments. We're sure that you'll be pleased with more mone than Vectea oven.

Introduction





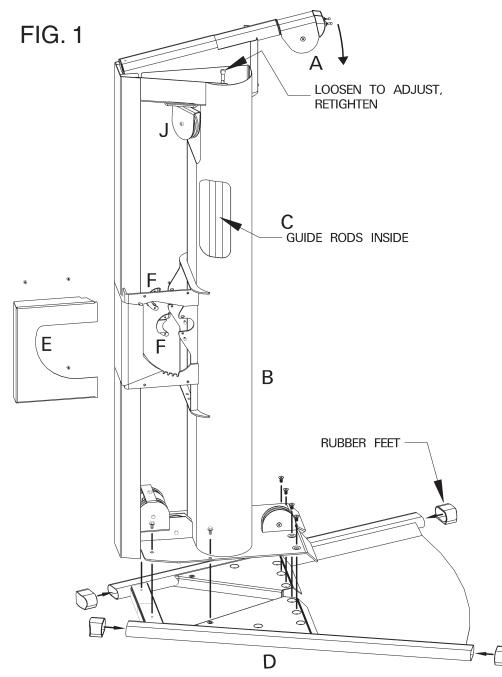
VFT-100 Owner's Manual

Tools Required:

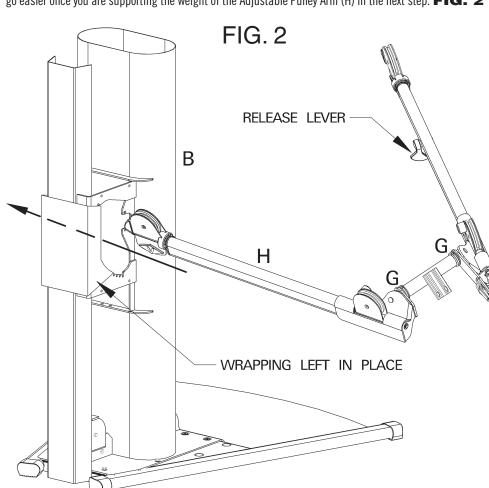
Wrenches: One each (7/16", 1/2", 9/16", 3/4")
Hex Keys: Two 5mm (provided) and one 7/32" (provided)
Phillips screwdriver

Assembly Instructions

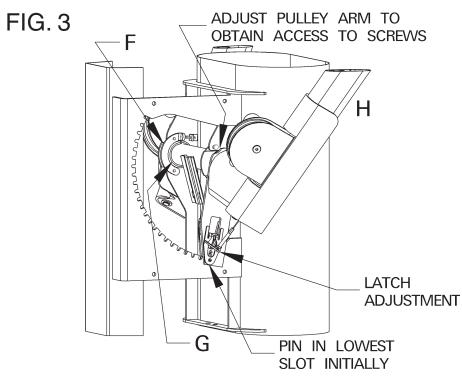
- Select location for your machine. Set machine up in a well-lighted and well-ventilated area where you will enjoy exercising. Use rubber floor matting or carpet remnants to protect your floor, if desired. It is necessary to have access to all sides of the unit during assembly. Once the unit is assembled, it may be moved against a wall or into a corner for use.
- 2. Unbox entire unit. NOTE: LEAVE ALL CABLE RETAINERS IN PLACE. Leave any wrapping labeled "leave in place during setup" on until instructions say to remove it. Some wrapping is intended to assist with the assembly of the pulley arm by holding cables back and by helping protect the paint during assembly. Lay large items, such as the main column down until needed to prevent them from accidentally falling over. To make assembly as easy as possible, many cables are pre-routed at the factory. Route and attach cables when instructions call for it. After routing any cable, resecure it to prevent it from coming unrouted before going on. In general, tighten all bolts very tight at the completion of each step, unless the instructions say otherwise.
- **3.** In preparation for assembly, remove the Footplate/Lat Hold Downs (L & M on Fig. 7) from the Base Frame (D). They are shipped bolted to the frame differently than they are bolted on to the assembled unit. See figure 1 for a view of how the Base Frame should look after these are removed. Also, if you are assembling the unit under a ceiling that is 7'6" (229 cm) or less, it will be necessary to lower the High Pulley Member (A) before proceeding. To lower this pulley member, locate two bolts, one in each side at the top of the Stack Column (B). These bolt heads are just above the bolts that go into the guide rods. You'll need a 9/16" wrench. Loosen the bolts just one or two turns each. Once the bolts are loose, push the High Pulley Member all the way down. Retighten the two bolts. **FIG. 1**



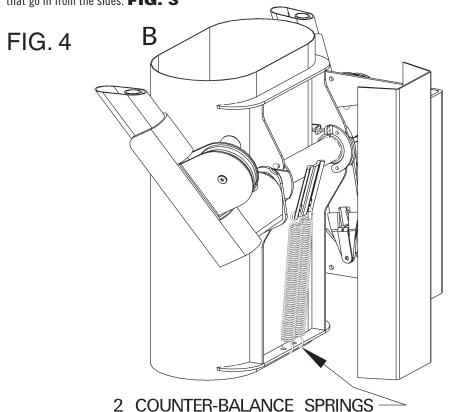
- 4. The Guide Rods (C) need to be in Stack Column (B) now because ceiling height might make later insertion difficult or impossible. Install 4 rubber feet on the Base Frame (D). Now carefully assemble the Stack Column (B) to Base Frame (D) (3/8-16 X 3/4 flat head bolts, Qty: 4, holes in front of stack column. 3/8-16 X 3/4 hex bolts, Qty: 4, holes further back). IMPORTANT: To prevent scratches to the parts during this step, cover parts of the base frame with discarded wrapping material. The stack column is heavy and could scratch the base frame if slid into place. So cover the base frame with wrapping material (foam, cardboard, etc.), get the column into position, and then pull out the wrapping material. This step requires a 7/32" hex key (the largest of those provided) and a 9/16" wrench. Before proceeding, ensure that these bolts are very tight. FIG. 1
- 5. Now remove the Adjustment Rack Shroud (E) but not the wrapping material just under it. Also remove the Bushing Retainers (F) from the back of the Stack Column (B) noting carefully how they fit (left vs. right) and which screws come out of which holes. FIG. 1 Locate the Black Bushings (G) on the pivot tube of the Adjustable Pulley Arm (H) and make sure they are spread about as far apart as they will go. The Bushing Retainers (F) removed above engage with the grooves in these bushings once the pulley arm is in place on the Stack Column (B). These bushing grooves also engage the brackets on the back of the stack column that the bushing retainers attach to. Familiarizing yourself with these parts is a good idea so that assembly will go easier once you are supporting the weight of the Adjustable Pulley Arm (H) in the next step. FIG. 2



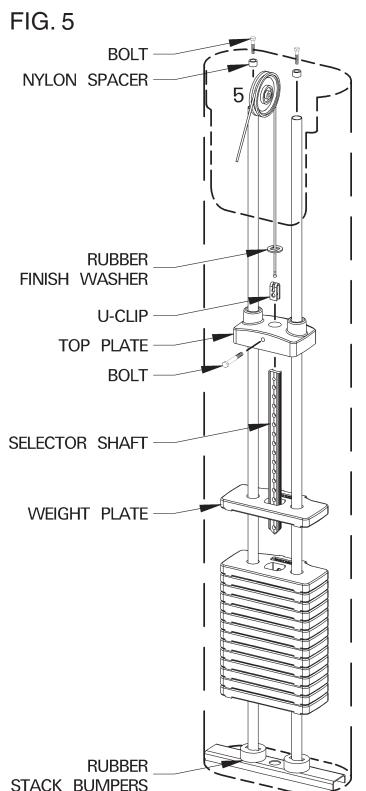
6. Now insert the Adjustable Pulley Arm (H) through the toothed adjustment rack of the stack column (the near side of Fig. 2). Insert the end of the pulley arm that does NOT have the "Release Lever" into the side of the stack column that has the toothed rack on it. The Release Lever points down. The wrapping material should be holding all cables back out of the way as they all belong rearward in the machine from the arm. IMPORTANT: This step is best done with two people. Go slow and use great care to prevent scratches to the adjustable pulley arm and stack column. Once the arm is centered relative to the stack column, raise the ends to about six feet off the floor and place the "latch pin" into the lowest slot in the



"toothed rack". Now line up the grooves in the Black Bushings (G) with the brackets on the back of the Stack Column (B). Rock the arm (pivoting on the "latch pin") such that the grooves in the two Black Bushings (G) engage the two brackets on the back of the stack column. Now reinstall the two Bushing Retainers (F) removed earlier. First put in the long screws that go in from the back, but don't tighten them. Next remove the wrapping material that passes through the rack and holds the cables back. Now put in the screws that go in from the sides. Adjusting the pulley arm to various heights is required to get these screws in. Bolt head access for each bolt is provided at a certain pulley arm position. Once the side screws are snug, tighten the screws that go in from the back to remove any play in the pulley arm. Now tighten the screws that go in from the sides. **FIG. 3**



- **7.** Install the two Counter-Balance Springs on the back of the Adjustable Pulley Arm (H). In preparation for this, adjust the pulley arm to its highest position. Doing so minimizes the amount that the springs must be stretched. Now (using gloves and care to prevent injury) stretch each spring and hook the lower end into a hole in a bracket on the Stack Column (B). **FIG. 4**
- **8.** Remove the pulley bracket (J) from the stack column (B) to make more room for loading the weight stack. Note how it fits for reassembly later. Don't take out the pulley itself, just remove the two bolts that go up into the frame and remove the entire bracket leaving it threaded on the cable. Carefully place it on the floor out of the way. **FIG. 1**
- **9.** Now install the weight stack inside the Stack Column (B) from the top. Ensure that the guide rods are in place as mentioned in step 4 above. Unbolt the top of the guide rods and lift them up a few inches one at a time and position the rubber stack bumper on the bottom of each guide rod. Do this by reaching



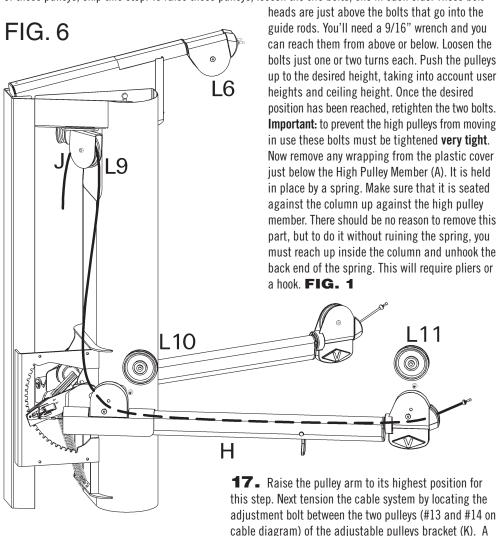
front of the column. Replace lower end of the guide rods through holes in the base of the stack column and push them down as far as they will go to make room at the top for loading the weight stack. Load the 15 weight plates for a 160 lb. stack (20 for the optional 210 lb. stack) one at a time by placing them on the guide rods at the top of the column with selector groove on the bottom facing out. **IMPORTANT:** To safely keep plates from banging together the following procedure is suggested: after releasing each plate, pull the guide rods apart to slow the fall of the plate. DO NOT try to catch plates with hands or feet. **USE EXTREME**

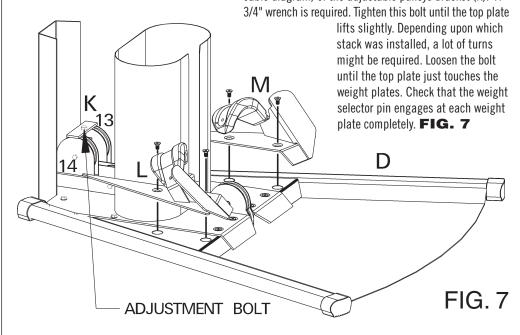
CAUTION. FIG. 5

in the weight pin slot on the

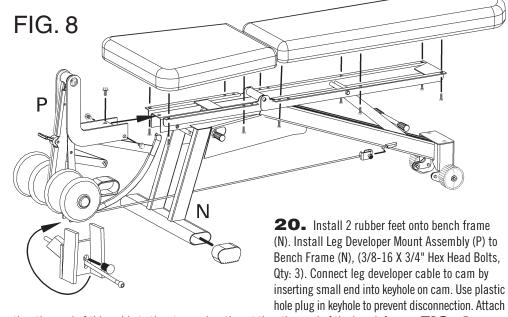
10. After all plates are in the column, assemble the top plate, selector shaft, rubber finish washer and Uclip to the end of the "stack cable", securing with 3/8-16 X 3 hex bolt. To do this first slide the rubber finish washer onto the cable. Next, insert the cable end into the keyhole in the U-clip. Insert the blunt end of the selector shaft from below into the center hole of the top plate until it is approximately flush on top. Now insert the U-clip ends down into the top plate around the selector shaft end. Secure with the cross bolt, and make sure it is very tight. Now slide the rubber finish washer down onto the top of the U-clip. **FIG. 5**

- 11. Now lower the top plate assembly down the guide rods making sure the cable is not tangled around anything. Replace and tighten the guide rod bolts making sure that there is a nylon spacer in the top of each guide rod. Using the cable, lift the top plate to the top and make sure the guide rod spacing is such that the top plate does not bind. If it does, loosen a guide rod bolt and adjust the guide rod spacing, then retighten the bolt. Make sure that the cable feeds straight down to the stack and doesn't go around a guide rod. FIG. 5
- **12.** Install weight plate number labels per instructions with labels. Attach the weight pin lanyard ring around the stack cable just above the rubber finish washer. This is most easily done through the access slot in the front of the Stack Column (B).
- **13.** Reattach the pulley bracket (J) to the stack column (B) and tighten these bolts very tight. This pulley bracket goes on such that it protrudes as far as possible. Compare to welded on bracket on other side to make sure it is positioned correctly. **FIG. 1**
- 14. In preparation for cabling the Adjustable Pulley Arm (H), remove the 4 pulleys (R10, R11, L10, & L11) from the arm. Use 5mm hex keys (provided). Refer to the cable diagram on the other side of this manual as needed. Now, on the left side of the column (near side of Fig. 6), take the cable that comes down from pulley (L9) pulley bracket (J), and feed it into the pulley bracket on the arm straight below it. From here it enters a steel tube. Push it through the steel tube until it exits through a pulley bracket at the front end of the arm. Reinstall the 2 pulleys (L10 & L11) in this side of the arm to secure the cable using the screws and tube nuts removed earlier. Repeat this process with the cable coming down from R9 for the other side of the adjustable pulley arm. Tighten these screws very tight. FIG. 6
- **15.** Test the adjustable pulley arm to verify that it adjusts to all positions and latches fully (latch pin hitting the back of each slot in the rack). Adjust screw near latch pin if necessary. This is adjusted at the factory and is unlikely to require adjustment. After any adjustment, retighten jam nut against brass cable end to keep adjustment from changing over time. **FIG. 3** Cover this area with Adjustment rack shroud (E) (1/4-20 X 1/2" phillips head screws. Qty: 4) **FIG. 1**
- **16.** Next adjust the height of the two high pulleys (L6 & R6 on cable diagram) in the High Pulley Member (A) to the desired height. If ceiling height does not allow or if you don't wish to raise the height of these pulleys, skip this step. To raise these pulleys, loosen the two bolts, one in each side. These bolt





- **18.** Make sure that all cables move freely when all cable ends are pulled. Immediately fix any cable rubbing problems. If a pulley is rubbing or otherwise making a noise while turning, the problem can usually be cured by tightening its bolt.
- **19.** Attach left Footplate/Lat Hold Down (L) and right Footplate/Lat Hold Down (M) to Base Frame (D) (3/8-16 X 3/4 flat head bolts, Qty: 2 per side). This step requires a 7/32" hex key (the largest of those provided). **FIG. 7**



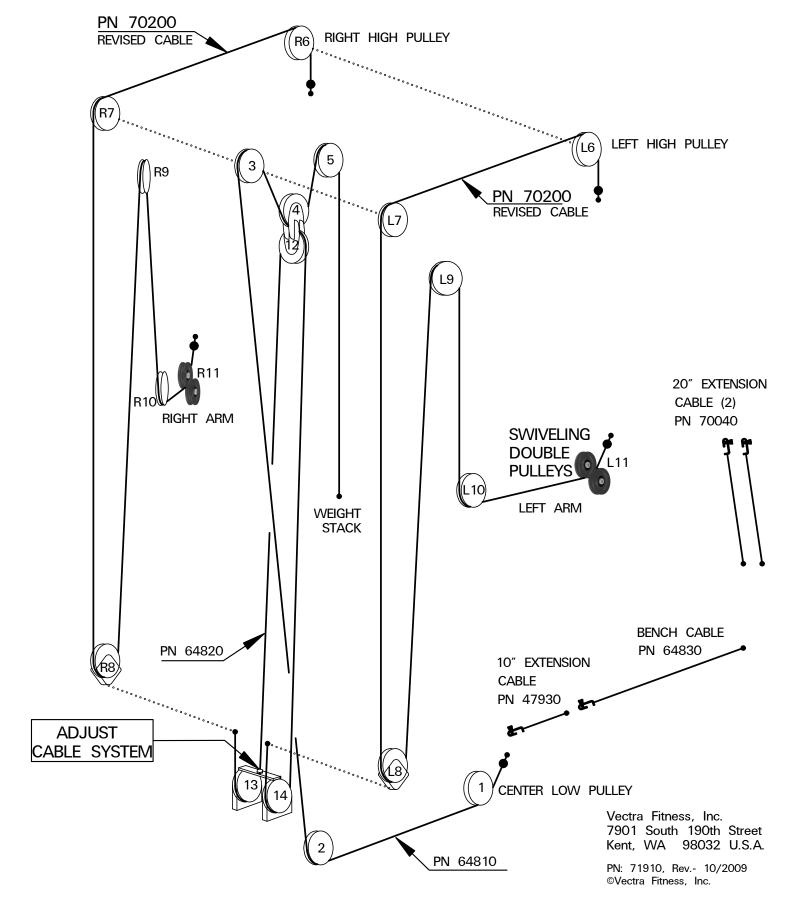
the other end of this cable to the storage location at the other end of the bench frame. **FIG. 8**

- 21. Attach the cushions to the bench (1/4-20 X 3/4 hex screws, Qty: 10). Tighten mounting screws firmly. FIG. 8
- **22.** Hang the exercise charts on the wall where they can be referred to easily. Read the exercise charts, all product labels, and this manual before beginning an exercise program.

If you have any questions, PLEASE contact the full-service dealer where you purchased this machine.



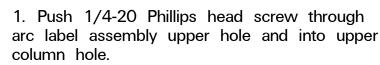
VFT-100 Owner's Manual Addendum for swiveling double pulley machines manufactured after 11/2009







Screwdriver: one #2 Phillips



- 2. Reach inside column with 1/4-20 nut and start on screw threads.
- 3. Put 7/16" wrench on nut inside of column and tighten Phillips screw with screwdriver.
- 4. Install second screw and nut in the same way.
- 5. Move pulley arm to test if the arc label assembly is correctly positioned. Adjust arc assembly position as necessary and tighten.

Vectra Fitness, Inc. 7901 South 190th Street Kent, WA 98032 U.S.A.

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