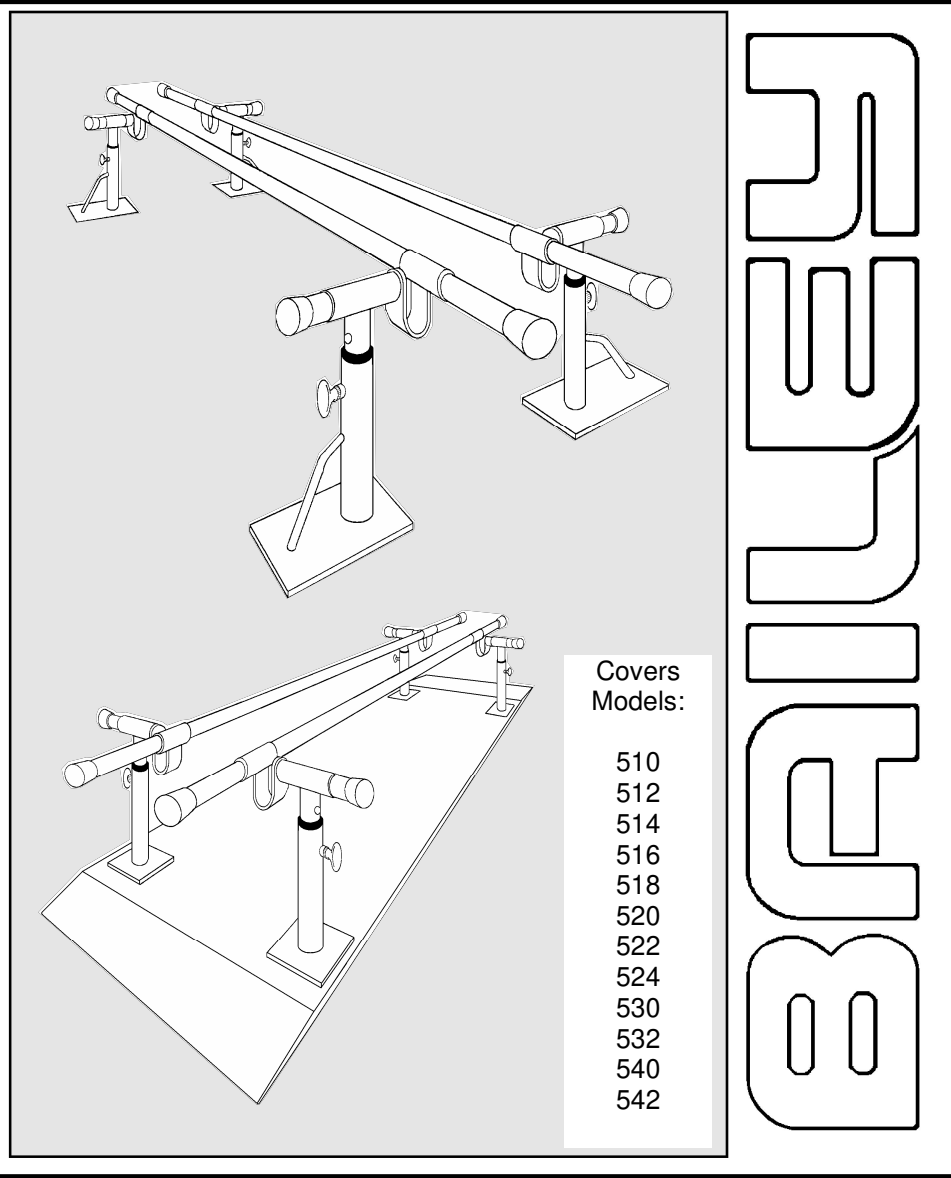


Model 500 Series Parallel Bars Product Manual



B0122

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Important Read This First

Bailey Manufacturing Company is proud of the reputation we have earned as a leader in the physical, occupational, and sports medicine industry for over 60 years. Our products are made from the highest quality materials and built in the USA by skilled craftsmen.

Prior to shipping, this product was thoroughly inspected to ensure the highest quality standards and your total satisfaction. If you experience any problems, please follow the instructions outlined in the Warranty & Support Section of this manual. Contact either your dealer or Bailey at 1-800-321-8372.

Please take a moment now and record the following information for future reference:

<i>Date of Purchase [delivery date]:</i>
<i>Bailey Dealer:</i>
<i>Packing Slip #:</i>
<i>Serial Number:</i> <i>Date of Manufacture:</i>

Contents:	Pages:
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General Information:

Read entire Product Manual before assembling and using this product. If you have any questions regarding the following information, please contact a Bailey Customer Service Representative at 1-800-321-8372.

Features & Specifications, Models 510 thru 524:

- Permanent floor mounting allows custom layouts and wheelchair access.
- Width adjustment of 6".
- Durable offset handrail support reduces interference.
- 1 1/2" diameter Handrail adjusts in height from 26" to 44" and locks securely in place.
- Maximum static load capacity of 350 lb. / 159 Kg.

Features & Specifications, Models 530 thru 542:

- Platform mounting allows quick and easy layout changes.
- For the 530, platform is 30" wide, handrail width is 25".
- For 540 & 542, platform is 42", handrail width 19" to 25".
- Durable offset handrail support reduces interference.
- 1 1/2" diameter Handrail adjusts in height from 26" to 44" and locks securely in place.
- Maximum static load capacity of 350 lb. / 159 Kg.

Parallel Bar Accessories:

- Model 90 Divider Board [Models 530 thru 542 only]
- Model 91 Divider Hole Cap [Models 530 thru 542 only]
- Model 94A Adjustable Height Child's Handrail [Except Models 530 and 532]
- Model 94F Fixed Height Child's Handrail [Models 530 and 532 only]
- Model 95 Space Saver middle bar [Models 510 thru 524 only]
- Refer to Accessory Product Manual for Accessory assembly, installation and further information.

Parts:

Your new Bailey Parallel Bars are shipped “knocked down”, with all hardware and parts needed for final assembly. Inspect the unit carefully, immediately upon removal from packaging, to ensure that the unit is in good condition and all materials are present before starting assembly.

Note: Bailey Manufacturing Company waives any responsibility for concealed freight damage not reported within five (5) days of receiving shipment.

Refer to Product Warranty and Support Section of this Manual for more information.

Check Parts Identification Diagram [Figure 1 on page 7] and parts list below to verify receipt of all material.

Models 510 and 512:

The following parts are packaged in two (2) groups:

- (2) EA. Handrail [10' or 12']
- (4) EA. Post Assembly & (4) EA. Width Adjuster

The following Hardware Kit is in a shipping bag enclosed with the Post Assemblies:

- (4) EA. # 10100 Black Knob, 1/4-20 x 1/2"
- (8) EA. # 15011 Rubber Tip
- (1) EA. # 3440 1/8 Allen Key

Models 514, 516, 518, 520:

The following parts are packaged in two (2) groups:

- (2) EA. Handrail [14', 16', 18' or 20']
- (6) EA. Post Assembly & (6) EA. Width Adjuster

The following Hardware Kit is in a shipping bag enclosed with the Post Assemblies:

- (6) EA. # 10100 Black Knob, 1/4-20 x 1/2"
- (10) EA. # 15011 Rubber Tip
- (1) EA. # 3440 1/8 Allen Key

[continued on page 6]

Parts [cont'd]:**Models 522 & 524:**

The following parts are packaged in three (3) groups:

- (2) EA. Handrail [22' or 24']
- (8) EA. Post Assembly & (8) EA. Width Adjuster [2 boxes]

The following Hardware Kit is in a shipping bag enclosed with the Post Assemblies:

- (8) EA. # 10100 Black Knob, 1/4-20 x 1/2"
- (12) EA. # 15011 Rubber Tip
- (1) EA. # 3440 1/8 Allen Key

Models 530 & 532:

The following parts are packaged in three (3) groups:

- (1) EA. Wood Platform
- (2) EA. Handrail [10' or 12']
- (4) EA. Post Assembly

The following Hardware Kit is in a shipping bag enclosed with the Post Assemblies:

- (4) EA. # 10100 Black Knob, 1/4-20 x 1/2"
- (4) EA. #15011 Rubber Tip
- (16) EA. #1370 5/16-18 x 2 1/4" Hex Bolt, #2550 5/16 Hex Nut and #3580 1/4 USS Flatwasher

Models 540 & 542:

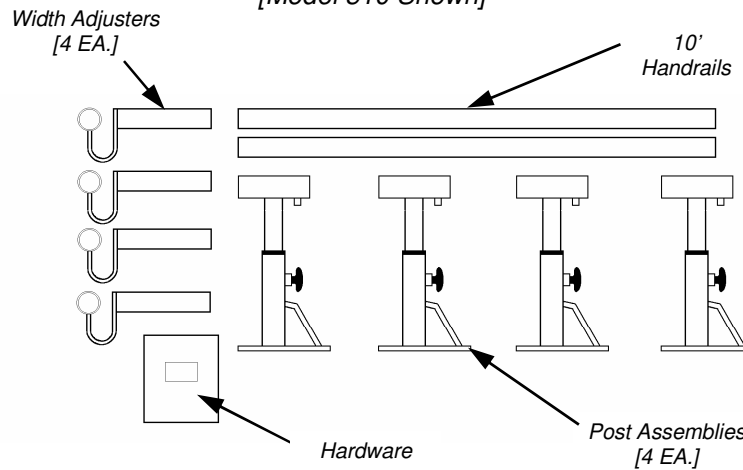
The following parts are packaged in three (3) groups:

- (1) EA. Wood Platform
- (2) EA. Handrail [10' or 12']
- (4) EA. Post Assembly & (4) EA. Width Adjuster

The following Hardware Kit is in a shipping bag enclosed with the Post Assemblies:

- (4) EA. # 10100 Black Knob, 1/4-20 x 1/2"
- (8) EA. # 15011 Rubber Tip
- (1) EA. # 3440 1/8 Allen Key
- (16) EA. #1370 5/16-18 x 2 1/4" Hex Bolt, #2550 5/16 Hex Nut and #3580 1/4 USS Flatwasher

Figure 1
Parallel Bar Parts Identification
[Model 510 Shown]



Assembly:

Floor Mounted Models 510 thru 524 only:

The following minimum materials are required for installation:

- Sixteen (16) each fasteners, 3/8 inch diameter, Grade 5 [minimum] for Base Post to floor mounting.

Note: Due to wide variances in floor and building construction, no mounting hardware or detailed hardware recommendations are provided. Consult an installation contractor or design professional who is familiar with your particular floor construction and materials. They can ensure compliance with the Uniform Building Code and any applicable local codes.

[continued on page 8]

Assembly [Cont.'d]:

The following minimum tools are required:

- 1/8" Allen Wrench (supplied in hardware bag)
- Floor fastener installation tools [to be determined by installation personnel]

Post Assemblies to Floor [Figure 2]:

*Note: Each Post Assembly ships preassembled, with Inner Post and Plunger [Figure 3, page 11] already installed. It is **not** necessary to separate these parts. **Ensure Plungers are screwed tightly into Posts** and fully engaged in lowest position before beginning installation.*

Caution: Never install this product over any type of soft floor covering, such as carpet. Floor fasteners must anchor into subfloor materials and can pass through floor tile or other solid floor coverings only. Failure to solidly anchor the unit may result in unsafe and unreliable operation.

Determine permanent location for floor installation using layout in Figure 2 and Table 1 [opposite page]. Determine the desired distance for Dimension "A" using the following guide lines:

- "A" is 32" for standard use, width adjusts 19" to 25".
- "A" is 33" for wheelchair access, width adjusts 20" to 26".
- "A" is 36" for powered wheelchair access, width adjusts 23" to 29".

Refer to Table 1, opposite page, for measured distances between Base Plates, in inches.

These dimensions are for reference only, and apply to maximum average width of applicable adult wheelchairs that comply with ANSI/RESNA measurement methods.

[continued on page 10]

Figure 2
Floor Installation Layout [Top View]

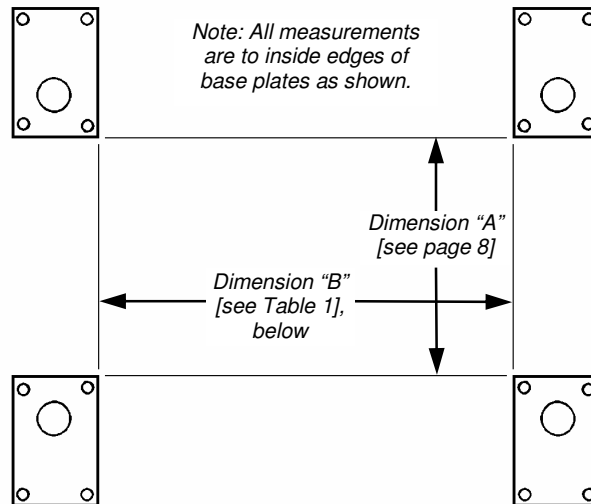


Table 1
Distance Between Base Plates

Model	# of Posts	Dimension "B"
510	4	78.75"
512	4	102.75"
514	6	60.75"
516	6	72.75"
518	6	84.75"
520	6	96.75"
522	8	70.75"
524	8	78.75"

Assembly [Cont.'d]:***Post Assemblies to Floor [Figure 2]:***

Install proper floor fasteners according to manufacturers instructions and mount the Post Assemblies to the floor, Plungers facing outwards. **Do not tighten these Posts down completely at this time. They must be able to move.**

Install Width Adjusters [Figure 3 on page 11]:

Slide each Width Adjuster through the top of an Inner Post, with the adjustment stop “dimples” facing down.

Install and tighten all four (4) Width Adjustment Knobs on last inside adjustment stop. Install four (4) Rubber Tips onto the ends of the Width Adjusters.

Install Handrails:

Ensure that all Posts are adjusted to minimum height, and that all Plungers are fully engaged. Check the Setscrews [Figure 3, page 11] in each Width Adjuster. They must be loose enough to allow the Handrails to pass through.

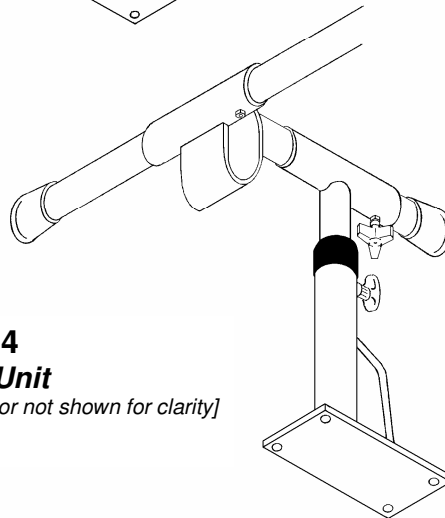
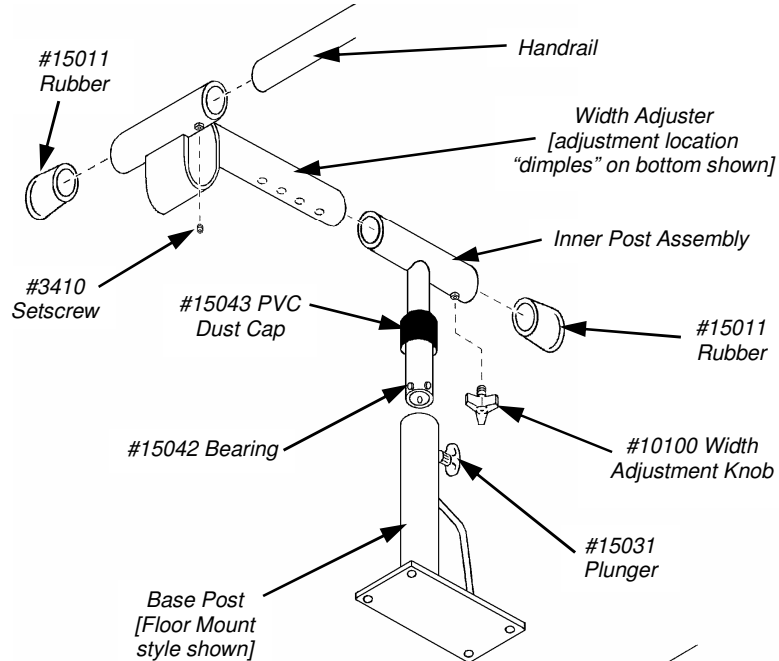
Insert a Handrail through both Width Adjusters on each side, until there is approximately 18” of Handrail at each end. Tighten all four (4) Setscrews. **Do not overtighten!** Install four (4) Rubber Tips onto the ends of the Handrails.

After both Handrails are installed and tightened, and with all Posts and Plungers fully engaged at minimum height, **tighten all floor mounting fasteners.**

[Continued on page 12]

Figure 3**Adjustable Post & Handrail Assembly**

[Note: Models 510 thru 524 shown; Inner & Base Posts are shipped pre-assembled; do not separate at installation!]

**Figure 4****Finished Unit**

[Models 510 thru 524 shown; floor not shown for clarity]

Assembly [cont'd.]:**Floor Mount Final Assembly and Check:**

After all Posts are secure to the floor, raise and lower each side, checking for full Plunger engagement in each adjustment hole. If for any reason a Plunger does not fully engage, loosen floor mounts and move Base Post slightly until Plunger engages. **All Plungers should be fully tightened in posts.** Lower Handrails completely and retighten floor mounts.

Assembly:**Platform Mounted Models 530 thru 542 only:**

The following minimum tools are required:

- 1/8" Allen Wrench [supplied, Models 540 & 542 only]
- (2) EA 1/2" Wrenches

The following additional tools will make assembly easier:

- 1/2" socket and drive ratchet

Note: The Platform assembly must be done by two people, for your safety and to prevent product damage. Assemble on the location where the Parallel bars will be used. If the floor and covering are concrete, tile, or other nonresilient surface, then the unit is best assembled while raised off the floor to prevent marring or damage to the wooden Platform.

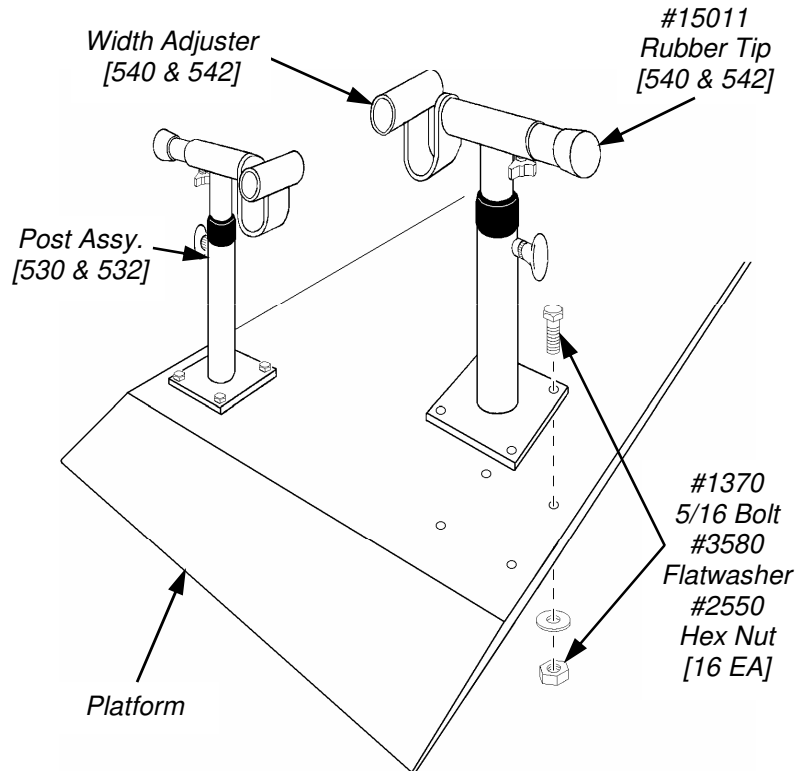
Refer to Figure 5, opposite page.

Models 530 and 532 posts [without width adjustment] mount to the Platform with the height adjustment Plungers facing in towards each other as shown. Models 540 and 542 posts mount with Plungers facing outward as shown.

[continued on next page]

Figure 5**Models 530 thru 542 Adjustable Post Attachment**

[Note: Inner & Base Posts are shipped pre-assembled;
do not separate at installation!]

**Assembly [cont'd.]:**

Install Width Adjusters on Models 540 & 542 posts using the same procedure on page 10. Height adjustment Plungers face outward as shown in Figure 5, above, when mounting to the Platform.

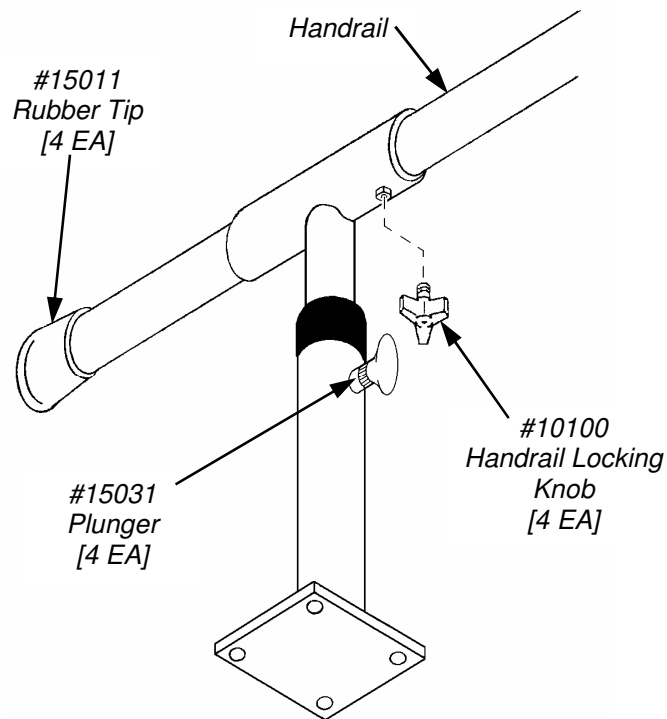
[continued on page 14]

Assembly [cont'd.]:

Mount all four (4) Post assemblies to the Platform at the predrilled hole locations, using four (4) 5/16 Hex Bolts, Flatwashers and Nuts for each Post assembly. **Do not tighten these Posts down completely at this time. They must be able to move.**

[continued on next page]

Figure 6
Models 530 & 532 Handrail Installation
[For Models 540 & 542 see Figure 3, page 11]



Assembly [cont'd.]:

Ensure that all Posts are adjusted to minimum height, and that all Plungers are fully engaged.

Insert a Handrail through both Upper Posts on each side, until there is approximately 18" of Handrail at each end. Install and tighten all four (4) Handrail Locking Knobs. **Do not overtighten!** Install four (4) Rubber Tips onto the ends of the Handrails.

After both Handrails are installed and tightened, and with all Posts and Plungers fully engaged at minimum height, **tighten all platform mounting fasteners.**

Platform Mount Final Assembly and Check:

After all Posts are secure to the platform, raise and lower each side, checking for full Plunger engagement in each adjustment hole. If for any reason a Plunger does not fully engage, loosen platform bolts and move Base Post slightly until Plunger engages. **All Plungers should be fully tightened in posts.** Lower Handrails completely and retighten bolts.

Caution: Repeat this retighten and recheck sequence until height adjustment Plungers are working properly. Failure to do so may result in improper Plunger engagement, binding Posts or broken post Inserts. Do not separate preassembled Posts. Contact Customer Service for detailed service information.

Ensure all components and fasteners are properly installed and tightened before placing unit in service. Review "Operation" section before adjusting or using the unit.

Safety:

Be safe! Never attempt to install, assemble, or adjust the product yourself. **Always use at least two people to adjust the height.** Avoid locating against walls or in contact with other equipment in order to eliminate pinch points. Always observe Static Load Ratings as stated on page 4.

Operation:

To adjust height, pull back on Plungers for all Posts simultaneously on one side, and raise or lower to desired height. Release Plungers to engage holes.

Note: Both Post Plungers on either side must be adjusted to same height. Ensure all Plungers are fully engaged before using Parallel Bars.

To adjust Handrail width [Models 510 thru 524, 540 and 542 only], loosen Width Adjustment Knobs and slide Handrail to desired position. Tighten Knobs until Handrails are secure. **Do not overtighten!**

For Operation, Assembly and other information regarding the following Accessories, please refer to the *Parallel Bar Accessory Product Manual* provided:

- Model 90 Divider Board [Models 530 thru 542 only]
- Model 91 Divider Hole Cap [Models 530 thru 542 only]
- Model 94A Adjustable Height Child's Handrail [Except Models 530 and 532]
- Model 94F Fixed Height Child's Handrail [Models 530 and 532 only]
- Model 95 Space Saver middle bar [Models 510 thru 524 only]

CAUTION: HEIGHT ADJUSTMENT OPERATION

Always use at least two people, one at each post/plunger, to adjust the height of the bars (step 4 below and per page 16 of this manual). Do not "walk" the height adjustment by moving from one post to the next. Otherwise this will cause misalignment, bending and loosening of various components, and it will become worse over time or with frequent adjustments.

The first sign of this is the plungers not holding or "walking out" when the bars are wiggled back and forth or during normal use.

Regular inspection and maintenance will prevent these conditions.

All the following must be checked prior to ordering replacement plungers or other parts to be sure the problem is corrected:

- 1) The T-Handle Plunger Assembly MUST be tight in each Lower Post
- 2) The Black Plastic Post Caps (or Inserts on older bars) MUST be in the proper position when in use. These on occasion may pop out or ride up the post but must be placed in the proper position during use. The old style Inserts must be in good condition (not broken), or must be replaced with the new 2010 version PVC Insert Cap (both are p/n 15043).
- 3) Floor Bars: The Upright Posts MUST be installed and shimmed at the floor baseplate if necessary to ensure the Posts are at a right angle to the floor AND parallel with each other. Failure to do this will cause binding and old style post insert breakage. Platform Bars: Posts must be parallel to each other and perpendicular to the platform.
- 4) The Parallel Bars MUST be adjusted for height by releasing all post adjustment Plungers at the same time per side, and lifting or lowering as close to simultaneously as possible. This will require at least two to four persons depending on the length of your Floor Mounted Bars. Attempting to adjust one post at a time with one person may bend components or break old style post inserts, and will require more frequent inspections and maintenance.

For part replacement reference, the Plunger Assembly, Complete is our p/n 15031.

Maintenance & Cleaning:

Regularly inspect components for wear and proper adjustment. Should the unit need attention, remove from service until the unit is returned to its original condition. A convenient Inspection and Service Logsheet is provided on page 15 for recordkeeping.

To help keep your product in good condition, clean as required using **abrasive free** and **solvent free** products. Test any cleaner or disinfectant on a small, inconspicuous location before using. Discontinue use if surface discolors or scratches.

Never use any cleaners or disinfectants containing solvents or abrasives on product surfaces. Check the Material Safety Data Sheet and consult the manufacturer with any questions. Some chemicals will severely shorten the life of your plastic parts and chrome plated or lacquer coated finishes.

For light soiling, we recommend liquid dish soap and water, or liquid cleanser and water applied sparingly with a soft bristle brush. For difficult stains or disinfection, use a solution of 10% household bleach [sodium hypochlorite] and 90% water applied sparingly with a soft white cloth. Rinse with water dampened cloth to remove any remaining soap, cleanser or bleach solution.

Five Year Limited Warranty:

Bailey Manufacturing Company warrants the products we manufacture to be free of defects in materials, workmanship, or design under normal use and service conditions for five years after the date of original purchase. Resale products and components manufactured by others will carry the warranty of the manufacturer. If the product and/or equipment should become defective within the designated warranty period, Bailey Manufacturing Company will repair or replace it (at our option) free of charge, including return transportation to you, provided you deliver the equipment or product prepaid to Bailey Manufacturing Company at 118 Lee Street, Lodi, Ohio 44254. Please receive authorization before returning product to the factory as Bailey Manufacturing Company will not accept collect shipments. Bailey Manufacturing Company reserves the right to repair or replace component parts without return of the entire unit.

This warranty does not include damage resulting from accident, abuse, or misuse of the product and expressly excludes normal wearing of parts or defect caused by transportation, accident, fire, flood, alteration, or negligence.

Bailey's warranty liability is limited to that stated above. Other than the warranty stated above, there are no warranties expressed or implied. Bailey will have no responsibility for consequential or incidental damages.

Product Support:

Bailey Manufacturing Company is totally committed to producing the finest quality physical, occupational, and sports medicine products. Our goal is your total satisfaction. If you experience any problems, please feel free to contact a Bailey Customer Service Representative at 1-800-321-8372 between the hours of 8:30 AM and 4:30 PM Eastern Time weekdays.

The following information is provided to help ensure that your experience with Bailey is a positive one. Please read this information carefully before you unpack or begin assembly.

If You Need Assistance:

To provide the best possible service to our customers and dealers, warranty claims should be made directly to Bailey. Since Bailey is in the best position to solve the customer's problem, it will speed up the process and help ensure total customer satisfaction. Should you encounter any problem with our products or services, please contact a Bailey Customer Service Representative at 1-800-321-8372 between the hours of 8:30 AM and 4:30 PM Eastern Time, weekdays. Please have the date of purchase and Bailey dealer information recorded inside the front cover of this manual, or a copy of your packing list available to help our customer service representative provide you with the fastest service. In most cases, you will also want to notify your dealer to enable them to provide any further assistance.

Damage or Loss in Transit:

All of our equipment is thoroughly inspected and carefully packed before leaving our plant. It is receipted for by the carrier as having been shipped in good condition. Any loss or damage which occurs to the equipment in route will be solely through negligence of the carrier and all claims must be filed directly with the carrier. Important; If a shipment is delivered to you in a visibly damaged condition or in a quantity that is less than is enumerated on the Bill of Lading or delivery receipt, insist on a notation of this damage or shortage by the delivering carrier's agent on the delivery receipt or freight bill. When a shipment has been delivered to you in apparent good condition, but upon opening the containers or crate, damage is discovered, notify the delivering carrier immediately upon discovery. This notification must be made within 5 days of receipt of the shipment. Insist upon an inspection and inspection report. You must retain all packaging, including the carton or crate in which the damaged item was shipped, until inspection has been made. All claims must be made by you, the consignee, directly to the carrier or its agents.

Returns:

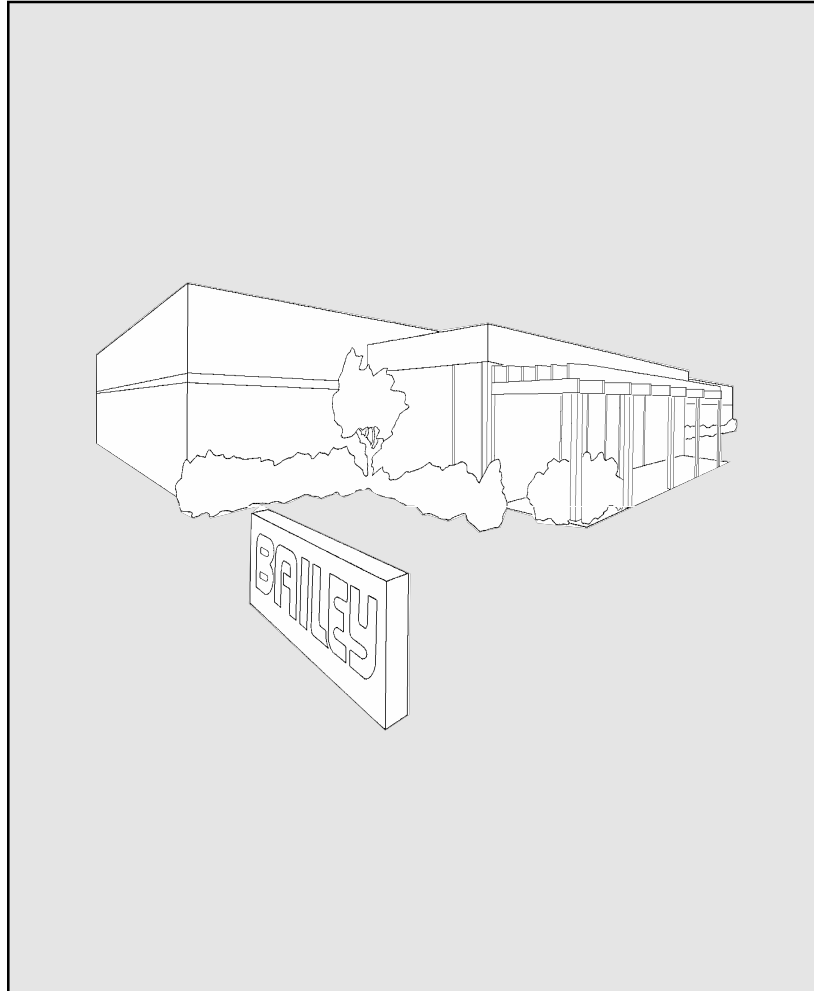
Merchandise to be returned **must** have proper authorization. Please contact your dealer for assistance with this procedure. A reference (return authorization or RA) number is to be clearly marked on all cartons and correspondence. Freight charges are to be prepaid, as collect shipments are not accepted. Items must be in the original packaging and returned within 30 days of the invoice date. Returns that are **not** the result of a warranty claim are subject to a restocking fee of 20% to cover inspection and handling. Any damage due to use, mishandling, or improper packing of the return will be noted and deducted from the credit issued. Special order items may not be returned for credit. Bailey Customer Service Representatives will complete a "Returned Merchandise Information" form to clearly identify all information concerning the returned merchandise.

Specifications:

Due to continuous improvements in design, materials, and construction techniques, specifications in the Bailey catalog are subject to change without notice. In all cases, the equipment shipped will be of equal or superior quality. Bailey Manufacturing Company also reserves the right to discontinue the manufacture of any product at such time as we consider necessary.

Customer Service:

When service is required, it is nearly impossible to place a value on it. For that reason we have an extremely competent Customer Service Department available to assist you with answers to your questions or recommendations in your planning process. In the unlikely event that a product may be in need of repair, our staff will assist with prompt identification of the required replacement part. Have the date of purchase and the name of your Bailey dealer handy for reference. Please contact us at 1-800-321-8372 between the hours of 8:30 AM and 4:30 PM Eastern Time weekdays for



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