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FOR CUSTOMER ASSISTANCE

As a future reference, we suggest you record the information listed below for quick accessibility.

Model No.: _____

Serial No.: _____

Purchase Date: _____

Purchased From: _____

Tri W-G Service:
1-800-437-8011

USER MANUAL

P/N: 101702-600

For

MOTORIZED PARALLEL BAR MODEL 112 SERIES

- Items: TG1000
- TG1001
- TG1002
- TG1004
- TG1006
- TG1008



2601-1
CSA C22.2 No. 601.1



2601-1
CSA C22.2 No. 601.1

Read this user manual carefully
before using Motorized Parallel Bar
LIMITED WARRANTY REGISTRATION CARD ENCLOSED

INTRODUCTION

Thank you for selecting the Tri W-G Motorized Parallel Bar. The purpose of these operating instructions is to introduce the authorized user/operator in using and working with this device safely, and to conduct routine preventative maintenance procedures on the device. For this goal to be achieved, it is essential that the authorized user/operator carefully read this manual, understand, and practice the precautionary measures recommended in it. **PLEASE HAVE ANYONE WHO WILL BE OPERATING THIS PARALLEL BAR READ THIS MANUAL.**


UNCRATING

1. Inspect for any damage to the parallel bar immediately after uncrating. If the parallel bar is damaged, file a merchandise damage report immediately with the delivering carrier. Do not return damaged merchandise to Tri W-G unless instructed to do so.
2. Fasteners and wrenches are in the hand rail box; you will need them to assemble the parallel bar. Remove all packaging material from the parallel bar and again inspect for damage, including chain system underneath the parallel bar platform. Report any shipping damage to delivering carrier immediately.

INSTALLATION

1. There is some assembly required. (Refer to Assembly Instructions on page 2)
2. Position the parallel bar in an area having flat/level floors so that the parallel bar is not distorted out of alignment.
3. Connect power cord to properly grounded 120 Volt AC receptacle, conforming to applicable nationally recognized electrical codes.
4. Power supply cord serves as disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible. The device has an appliance inlet with external accessible fuses in the line and neutral. The replacement fuses must be 5 x 20mm-5 Amp-Time Lag Fuses with High Breaking Capacity. When changing fuses, one must unplug the power supply cord from the main source of power.

IMPORTANT SAFETY/PRECAUTIONARY INSTRUCTIONS

1. Once again, please have anyone who will be operating the parallel bar read the manual before using. Operator should understand and practice the precautionary instructions recommended in this manual. All users should use common sense and know the limitations and hazards associated with operating the parallel bar.
2. **NEVER** place your hands or feet, nor the patients' hands or feet, near any of the working mechanisms of the parallel bar when operating. Also, **DO NOT** place or leave wheelchair, objects or items of any kind between the bars when setting the bar position; whether adjusting them for height or width.
3. Whenever you see this symbol:  it means "Attention! You and/or Your Patients' Safety is Involved".
4. During parallel bar operation, stop the parallel bar operation if anything unusual is observed or unusual sounds are heard coming from the parallel bar.

ASSEMBLY INSTRUCTIONS

Use fasteners and wrenches packed in the hand rail box to assemble.

DO NOT REMOVE THE SLOTTED WOOD BLOCKS (CHAIN GUIDES)

Caution: Do not operate motors or rotate shafts before bars are completely joined at the base and line shafts are coupled as the platform. Sections are timed and limit controls are set at the factory.

Make certain that the floor under the bars is level; any unevenness may cause operation of the parallel bar to be noisy. If leveling is difficult, a porous compressible composition board may be placed under the entire parallel bar platform.

MULTIPLE SECTIONS:

Align the motor section 111-010-000 with the center platform section 111-012-000 (18 foot or 24 foot size) or the end platform section 111-011-000 (12 foot size). Install cap screws on side of platform at junction point.

The line shafts, keyways and couplers should be in alignment from the factory, and starting from the motor section, can be gently tapped together. Should the couplers and keyways be slightly out of alignment, the shafts on the center or end section may be turned by hand to achieve alignment. Do not turn the shafts on the motor section as these have been timed with limit controls.

Make certain the couplers are equal on both line shafts and tighten the allen screws.

HANDRAILS:

Couple the handrail sections by inserting sleeve joints and secure with allen screws. Make certain the countersunk holes on the rail supports are on one side and mount the handrails with the countersunk holes toward the middle of the parallel bars. The reason will become evident as the handrails are fastened to the uprights.

After installation of handrails, check for horizontal and vertical alignment. Some variation will be apparent if the floor is irregular. The parallel bar will operate with the handrails slightly distorted, but if they are out of alignment, follow the instructions for readjustment, Figures 1-4.

OPERATING INSTRUCTIONS

Adjusting Height--To raise or lower the bars, simply touch the "UP" or "DOWN" key on the switch box.

Adjusting Width--To adjust width of the bars, simply touch the "IN" or "OUT" key on the switch box.

Capacity--The parallel bar is intended to support 600 lbs (272.2 Kilograms).

Intended Use--This device is a motorized height and width parallel bar intended for medical purposes, such as to redevelop muscles or restore motion to joints or for use as an adjunct treatment for obesity.

Due to normal wear, it may be necessary to replace the power cord, or routinely check to make sure all connections are tight. Call our customer service for replacement parts and/or installation instructions.

Any repair should be performed by trained or certified service personnel.

SYMBOLS, INDICATORS, and DEGREE OF SAFETY



Attention: Consult accompanying documents.



Type B Equipment: Equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.



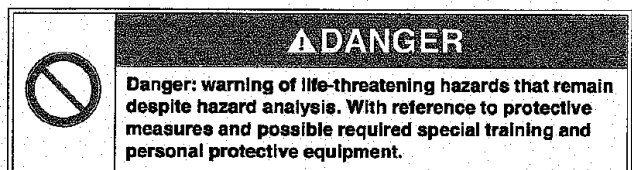
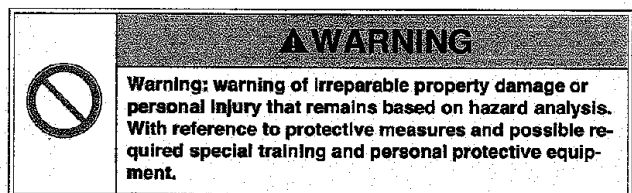
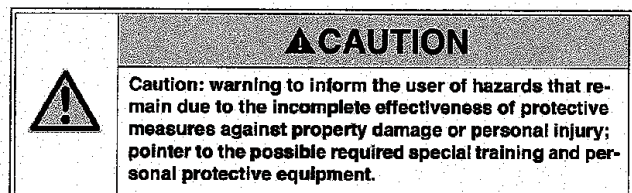
This product is Class I equipment in which protection against electric shock does not rely on BASIC INSULATION only, but which includes an additional safety precaution in that means are provided for the connection of the EQUIPMENT to the protective earth conductor in the fixed wiring of the insulation in such a way the ACCESSIBLE METAL PARTS cannot become LIVE in the event of a failure of the BASIC INSULATION.

WATER	Protection against harmful ingress of water--Ordinary.
ANESTHETICS	Not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide.
OPERATION	Maximum continuous operation of motor is 12 minutes per hour.
ELEC. RATING	Input: 120 Volt AC, Single Phase, 60 Hz, 6.8 Amps.

WARNINGS AND USAGE HINTS

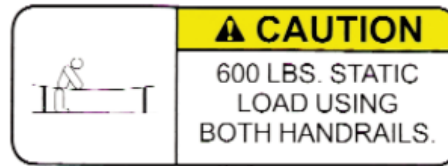
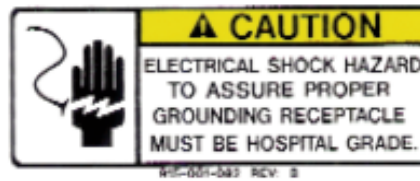
Please make note of the meaning of the following warnings and usage hints:

Note: indicates usage information that helps the user to use the product correctly and efficiently or to understand the properties of the product.



OTHER HAZARDS

The manufacturer has constructively, and with protective measures, minimized the effects of existing hazards. Pay attention to the following hazards and the possible countermeasures given in the following:



TROUBLE SHOOTING

1.0 Parallel bar does not move up or down:

- 1.1 Check power cord connection to main power source.
- 1.2 Make sure main power source is receiving power.
- 1.3 Thermal protector may have activated, and you must allow the system to cool down.
- 1.4 Parallel bar still does not function after checking the aforementioned possible items, call the customer service at 1.800.437.8011.

2.0 Tried everything and nothing works to resolve the dilemma--call customer service at 1.800.437.8011.

OPERATION

The hand rail assembly on the parallel bar platforms are shipped in the extreme "OUT" and "DOWN" positions. Before installing the line shaft shield, push the left rocker switch to the "UP" position while observing the line shaft for any erratic motion. If the shaft does not operate smoothly, check for damaged parts from shipping and handling. If no damage is apparent, continue to operate until the left limit switch is contacted by part 111-038-000, Figure 4. There should be a 16 inch clearance on the bars as indicated in Figure 2.

Push the left rocker switch to the "DOWN" position and continue to operate until the right limit switch is contacted by part 111-038-000, Figure 4. There should be a 1 1/2 inch clearance on the bars as indicated in Figure 1.

Push the right rocker switch to the "IN" position, again observing for smooth line shaft operation. If no damage is apparent, continue to operate until the right limit switch is contacted by part 111-036-000, Figure 3. There should be a 3/8 inch clearance as indicated in Figure 1.

ADJUSTMENTS in any of the above operations may be made at this time, although it should not be necessary, as the unit was timed at the factory.

CHAIN ADJUSTMENT:

Remove motor cover and line shaft shields.

MAIN CHAIN DRIVES:

Motor chains should be taut but not tight. Chain should be able to be depressed 1/4 inch in free area. To tighten chain, loosen the four motor bolts and lift motor to attain desired tension and tighten bolts.

Consult Figures 17 and 18. Loosen nuts VA and VB. Insert allen wrench in VC and turn clockwise until proper tension is achieved. While holding allen wrench securely, tighten nuts VA and VB.

HORIZONTAL CROSS CHAIN DRIVES:

Adjust similar to VERTICAL, except use HA, HB, and HC points, Figures 17 and 18.

If chain too tight, a crackling noise will develop since the chain will climb on the sprocket teeth.

BAR SUPPORT OUT OF ALIGNMENT:

Should one of the racks 111-024-000, Figures 2 and 21, on the horizontal travel be out of time, it can be individually adjusted by raising the bars to the maximum height, removing the screws from part 111-020-000 permitting the square shaft 111-021-000 to be dropped from the rack bracket 111-019-000 thereby disengaging the gear 111-055-000. Move the rack so it is equidistant with the other racks from the upright and replace the gear, shaft and coupling, and screws.

"IN" AND "OUT" ADJUSTMENTS:

Loosen allen screws on acme screw 111-040-000, Figure 3. Operate "OUT" motor until handrail is a 3/8" position, Figure 1. Center acme screw 111-040-000 between limit switches and rotate until nut 111-036-000 contacts left limit switch. Tighten allen screws and operate "IN" motor until 4 7/8" position, Figure 2, is reached. Correct spacing and contact can be made by adjusting fine screw on acme nut 111-036-000.

"UP" AND "DOWN" ADJUSTMENTS:

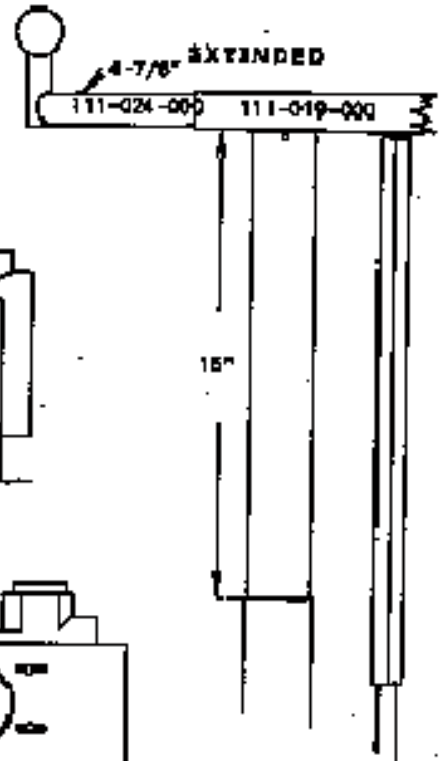
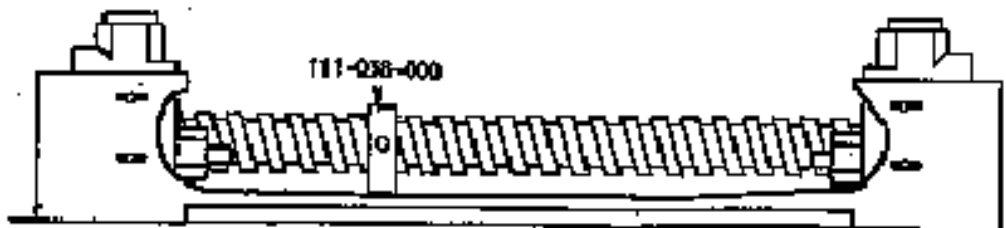
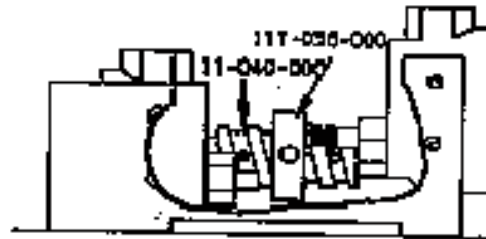
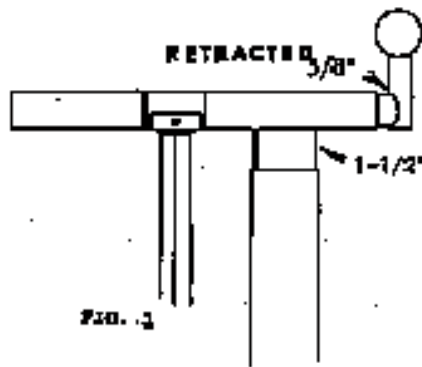
Loosen allen screws on acme screw, Figure 4. Operate "DOWN" motor until bars are 1 1/2" position, Figure 1. Center acme screw between limits and rotate until acme nut 111-038-000 contacts right limit switch. Tighten allen screws and operate the "UP" motor until bars reach the 16" position, Figure 2. Adjust limit switches accordingly.



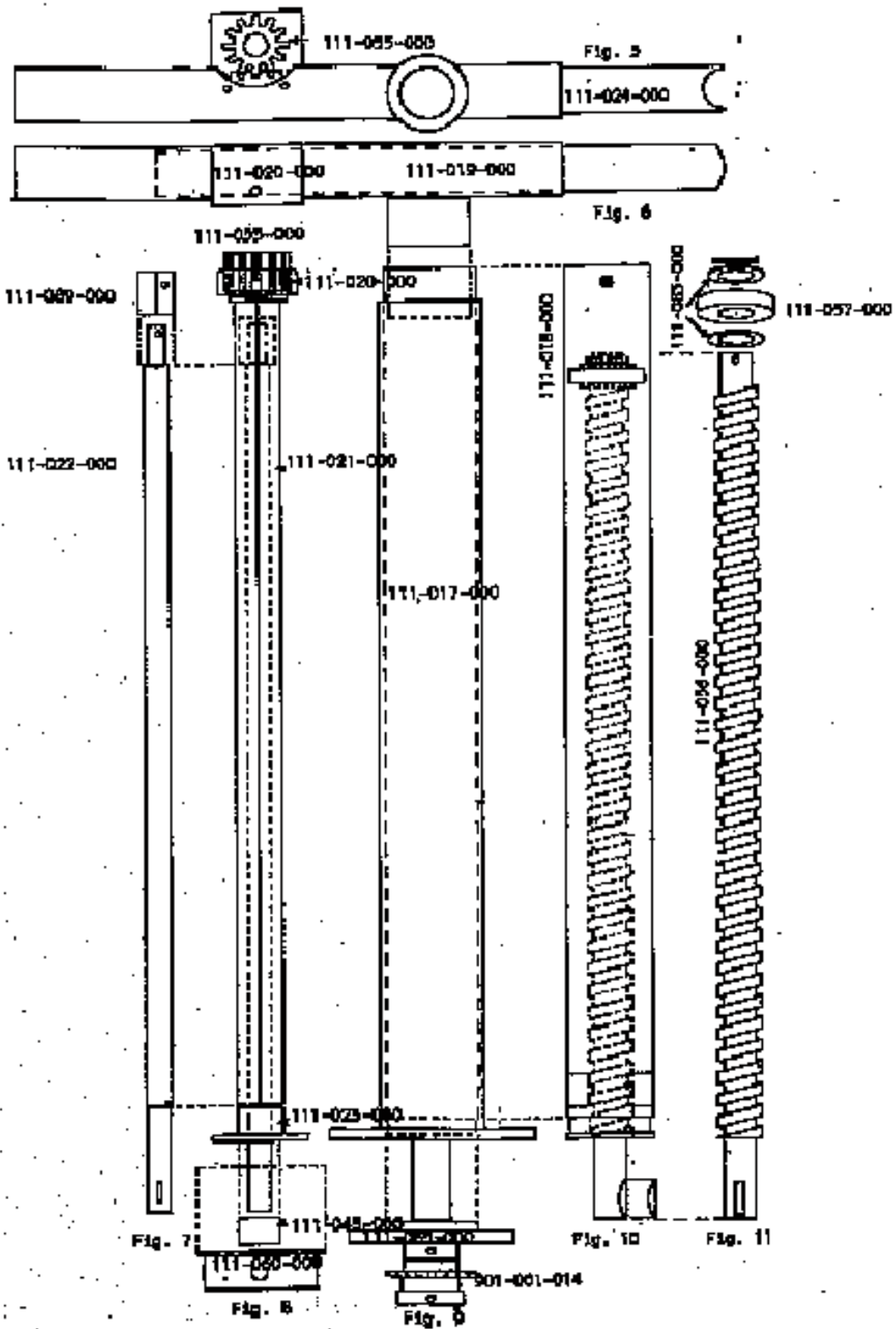
CAUTION: To avoid damage to electrical equipment, use proper power source.



WARNING: Do not attempt to service any electrical components. Let only a qualified technician do any electrical repair work.



COMPLETE STANCHION, FIGURES 5 THROUGH 11



VERTICAL AND HORIZONTAL DRIVE MECHANISM, FIGURES 12 AND 13

CROSS SECTION BIG-IT TO LEFT VIEW
HORIZONTAL DRIVE MECHANISM

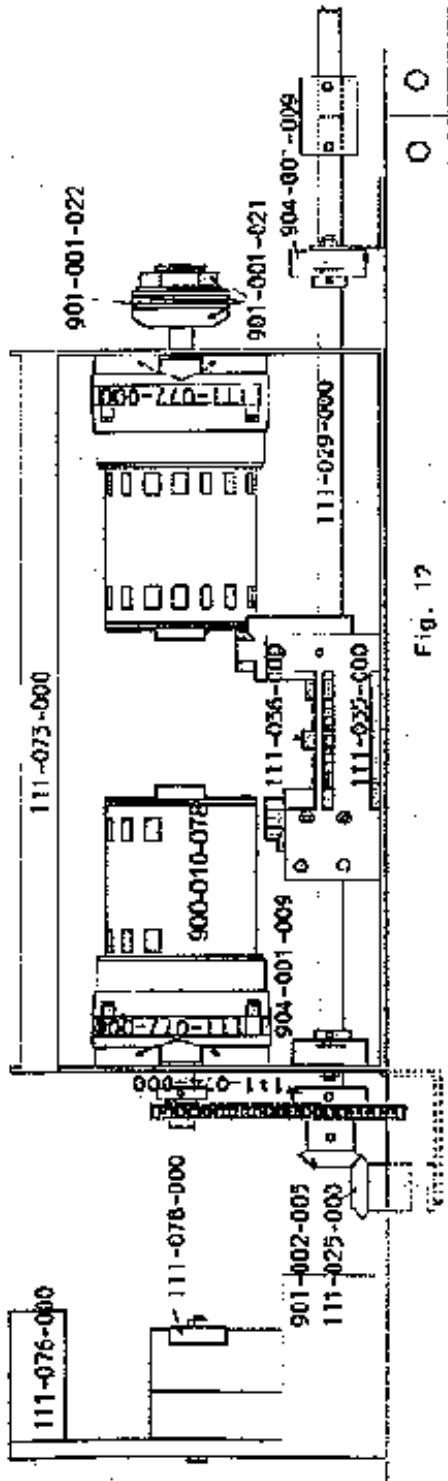


Fig. 12

CROSS SECTION LEFT TO RIGHT VIEW
VERTICAL DRIVE MECHANISM

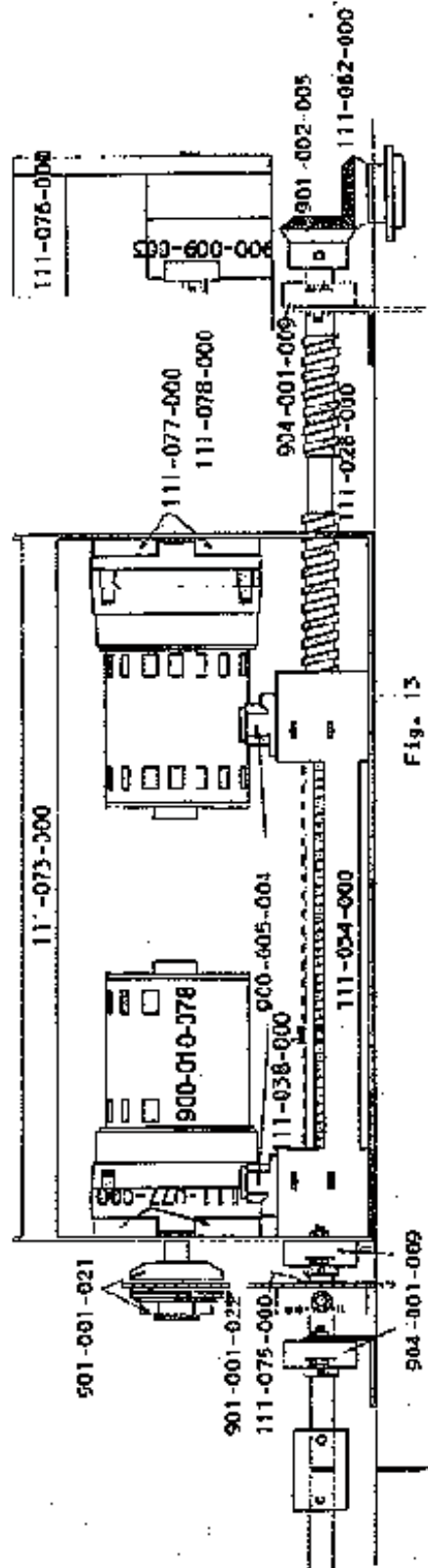
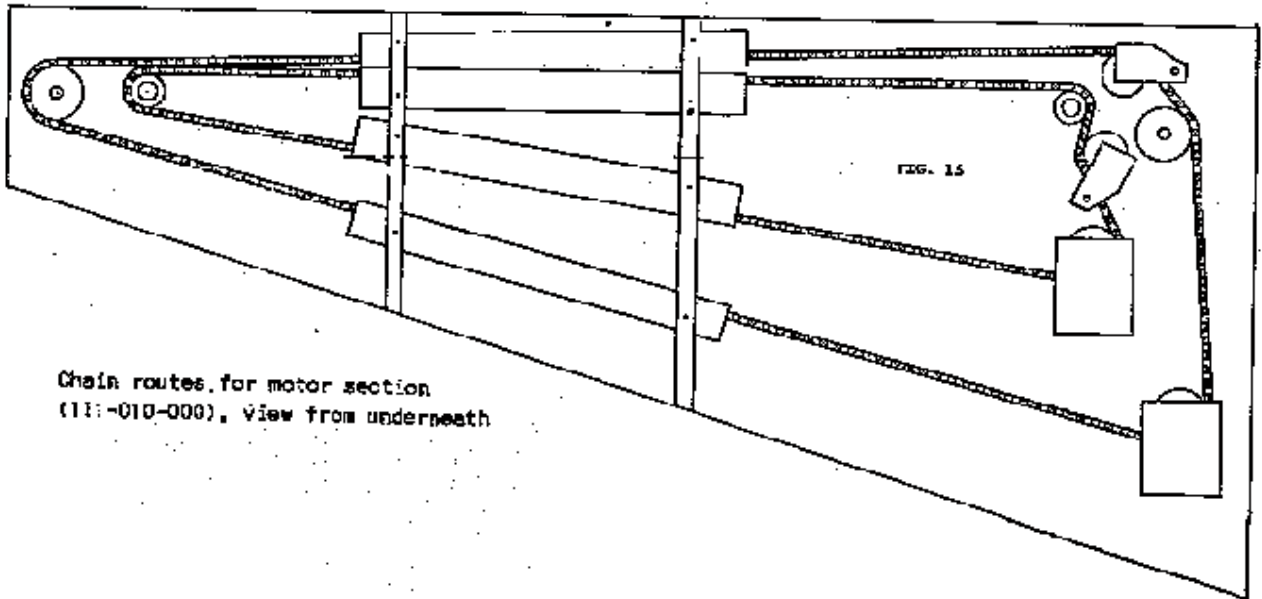
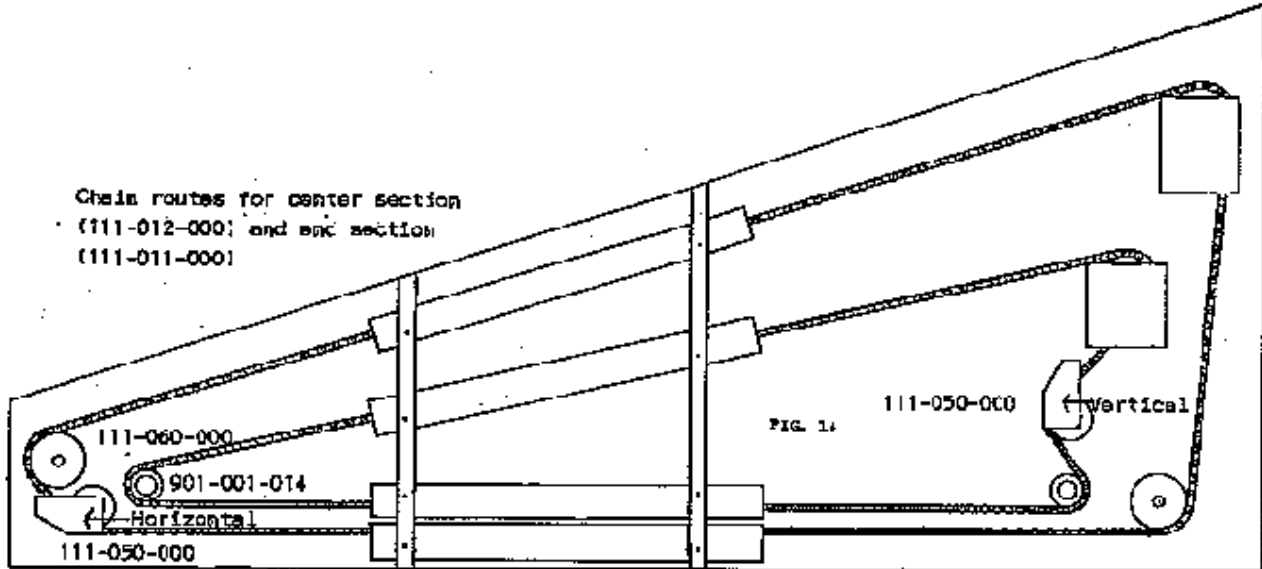


Fig. 13

CHAIN ROUTE, FIGURES 14 AND 15



CHAIN DRIVE, FIGURES 16 THROUGH 20

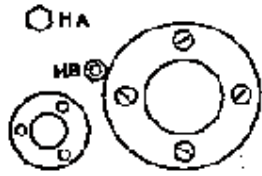


FIG. 15

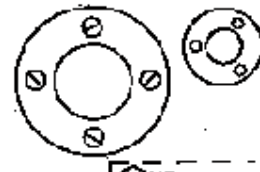


FIG. 17

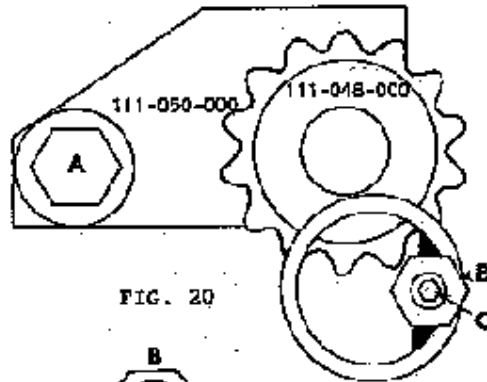


FIG. 20

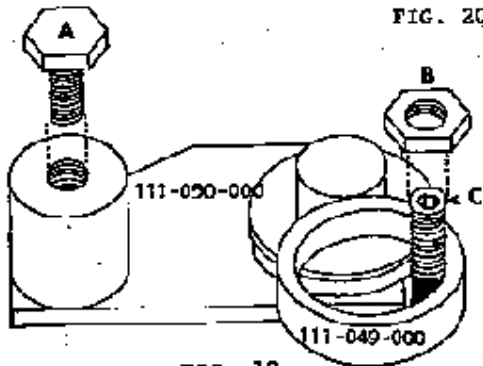


FIG. 19

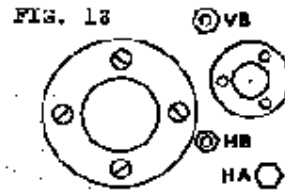
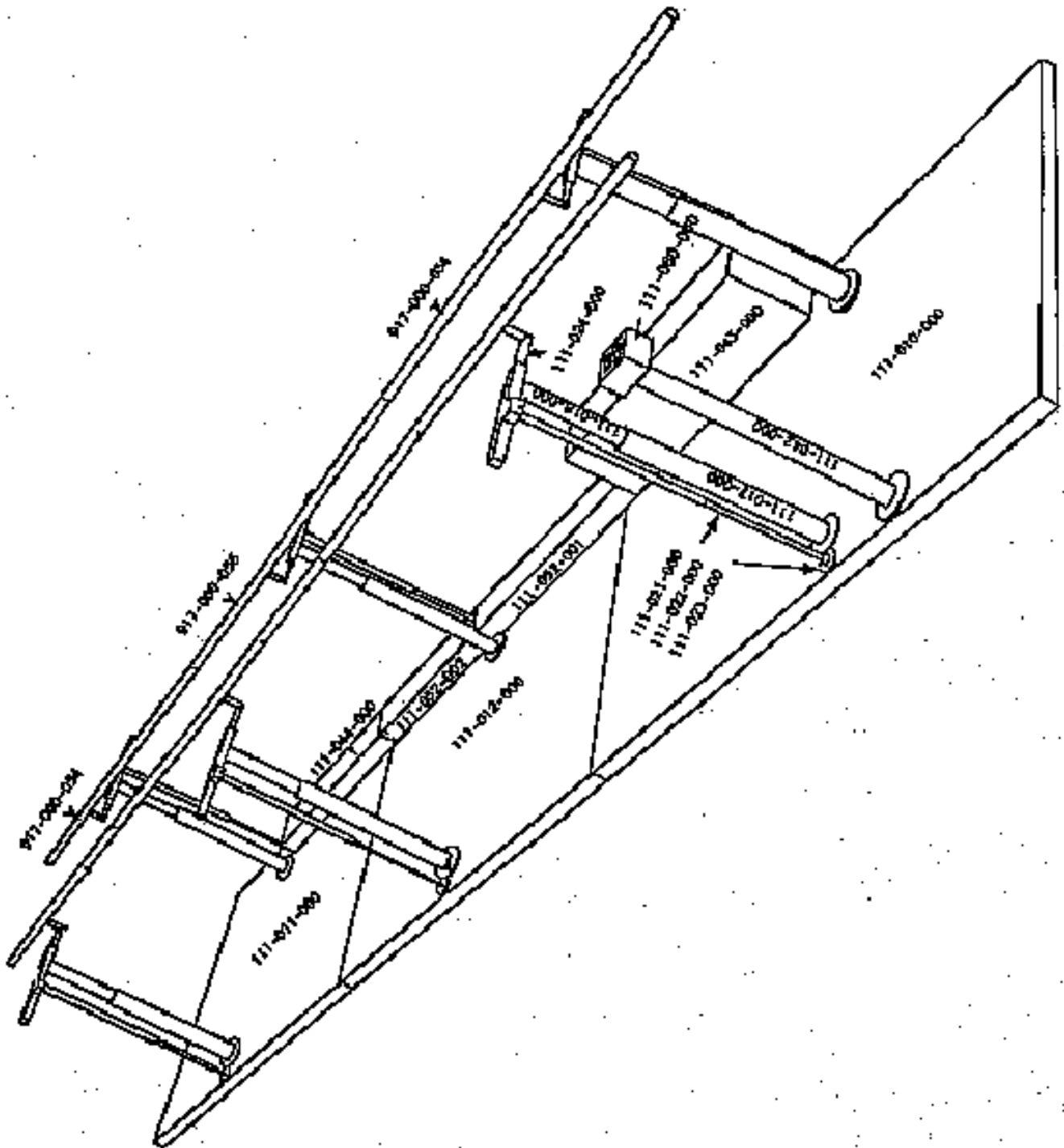


FIG. 18

PARALLEL BAR MODEL 112, FIGURE 21



SPECIFICATIONS:

Item No. TG1000; Length- 6 ft.

Item No. TG1001; Length- 8 ft.

Item No. TG1002; Length- 10 ft.

Item No. TG1004; Length- 12 ft.

Item No. TG1006; Length- 16 ft.

Item No. TG1008; Length- 18 ft.

Weight Capacity: 600 lbs.

Width Adjustment: 15 1/2" - 24 1/2" (*nominal*)

Height Adjustment: 25 1/4" - 39 3/4" (*nominal*)

Base: 10 gauge steel, 1 3/4"H, blunt ends.

Width: 31 1/2" (between standards)

Handrails: Anodized aluminum, 1 5/8"D

Finish: Polyurethane Pearl Grey standard; Porcelain optional. Chrome plated trim.

Carpet: Black non-skid type mat, 27"W, length to fit.

Accessories: Tapered and Non-Tapered Extensions, and Child's Low-Bar Attachment accessories available.

Electrical: 120V, Single Phase, 60 Hz, 6.8 Amps

UL Class: Classified UL in accordance with 2601-1 with respect to electric shock, fire and mechanical hazards only, 6WA3.

Classified UL in accordance with CAN/CSA C22.2 No. 601.1, with respect to electric shock, fire mechanical and other specified hazards only, medical equipment certified for Canada, 6WA3.

SERVICE PARTS LIST

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
111-010-000	6' motorized "A" section
111-011-000	6' "B" section
111-012-000	6' "C" section
111-017-000	Outer stanchion
111-018-000	Telescopic stanchion
111-019-000	Rack bracket
111-020-000	Plate
111-021-000	Telescopic tube
111-022-000	Telescopic shaft
F111-140-000	3-hole flanged bearing
111-024-000	Horizontal rack
111-025-000	Horizontal drive assembly idlers
111-028-000	Acme screw line shaft
111-029-000	Line shaft (5/8" x 28 1/2") "A" section
111-030-000	Line shaft (5/8" x 30 1/4") "B" section
111-031-000	Line shaft (5/8" x 36 3/4") "B" section
111-034-000	Vertical limit control bracket
111-035-000	Horizontal limit control bracket
111-036-000	Limit lug control
111-038-000	Limit lug control
111-040-000	Stub acme limit screw
111-041-000	Rail sleeve tube
111-042-000	Switch standard
111-043-000	Motor housing cover
111-044-000	Line shaft cover
111-045-000	Spacer
111-047-000	Section coupler
111-048-000	Idler assembly
111-049-000	Eccentric chain tighteners
111-050-000	Chain idler bracket
111-051-000	Line shaft (5/8" x 71 3/4") "C" section-6'
111-052-000	Line shaft cover
111-053-000	Flanged nylon bearing
111-055-000	Spur gear
111-056-000	Acme screw
111-058-000	Wood chain guide
111-059-000	Line shaft cover
111-060-000	35B22 sprocket
111-073-000	Double motor mount bracket
F111-142-000	Insulated sprocket
111-076-000	Capacitor bracket
111-077-000	Plexiglass motor mount
111-078-000	Capacitor clamp
111-079-000	Vertical line drive bearing bracket
111-080-000	Switch box
111-081-000	Horizontal line drive bearing bracket
111-082-000	Vertical drive assembly idler
111-084-000	Double line shaft bearing cage
111-085-000	Bearing and cage

SERVICE PARTS LIST CONTINUED

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
111-086-000	Line shaft (5/8" x 71 3/4") "C" section-6'
111-089-000	Stub sleeve
111-090-000	Keystock
111-091-000	Tie down
111-092-000	5' motorized "A" section
111-093-000	5' "B" section
111-094-000	5' "C" section
111-096-000	Handrail stem
111-101-000	Line shaft (5/8" x 59 3/4") "C" section-5'
111-102-000	Line shaft (5/8" x 59 3/4") "C" section-5'
111-103-000	Line shaft cover
111-014-000	Line shaft cover
181-027-000	Nylatron 'O' ring (1/4" x 6")
181-028-000	Nylatron 'O' ring (1/4" x 6 3/8")
900-001-057	Medical Grade Cord Set
900-004-003	Outlet box
900-004-006	Outlet box cover
900-005-006	Limit switch BME6-2RQ
900-005-051	Rocker switch #V85AS00B-AZB00
900-009-030	50 MFD, 240 VAC capacitor
900-010-078	59 RPM gearmotor
901-001-014	3514 x 3/4" sprocket
901-001-021	Torque limit
901-001-022	3525 torque limti sprocket
901-002-005	YSM10F20 x 5/8" miter gear
901-002-006	YSM12F21 x 5/8" miter gear
901-004-001	#35 roller chain
904-001-009	FB110 x 5/8" bearing
904-002-001	5/8" bushing
908-006-001	27" runner mat
917-000-057	72" adult "C" section handrail
917-000-058	60" adult "A" and "B" section handrail
917-000-059	72" adult "A" and "B" section handrail
917-000-101	60" adult "C" section handrail

ACCESSORIES

MODEL 117 CHILD'S ALUMINUM HANDRAIL

117-010-000	Child's handrail bracket
117-014-000	Child's rail sleeve tube
117-015-000	Child's handrail nylon cap
917-000-054	72" child's "A" & "B" section handrail
917-000-055	60" child's "A" & "B" section handrail
917-000-056	72" child's "C" section handrail

NOTICE:

Design changes may have occurred in the product since this manual was published. The technical information found within this manual was correct at the time this manual was approved for publication.

Tri W-G, Inc. does not assume any risk or liability for attachments, or their effects on this device, if the attachments are not manufactured, sold by, and expressly approved by Tri W-G, Inc.

When parts are required, use only those parts authorized by Tri W-G, Inc.

If any information contained in this publication is not understood, the user should contact Tri W-G, Inc. for assistance.

LIMITED WARRANTY

This Product or Part is sold by Tri W-G, Inc. under the limited warranties set forth in the following paragraphs. Such warranties are extended only with respect to the Purchase of the Product or Part as new merchandise directly from Tri W-G, Inc. or a Tri W-G, Inc. Authorized Dealer and are extended to the ultimate customer purchaser of the Tri W-G, Inc. Product or Part.

Tri W-G, Inc. warrants that each Product or Part sold hereunder shall be free of defects in material and workmanship for the Product warranty period identified as follows:

Five Years: structural frame.

365 Days: upholstery.

(Please note the aforementioned limited warranty is limited to original owner and not transferable.)

in the case of Products and twelve months in the case of Parts from the date of delivery from Tri W-G, Inc. or an authorized Tri W-G, Inc. Dealer, whichever is later. Should defects appear in any products subject to this limited warranty and Parts subject to this limited warranty sold hereunder within the respective limited warranty period, Tri W-G, Inc. will repair or replace under the terms of this limited warranty any defective Part or Parts or provide new or remanufactured Parts when the defective Part or Parts are returned to Tri W-G, Inc. facilities at Buyer's expense upon (20) days prior written notice to Tri W-G, Inc. Buyer will be charged for any replacement Parts when shipped to Buyer by Tri W-G, Inc. When the defective Parts are returned to Tri W-G, Inc. pursuant to Tri W-G, Inc. returned goods authorization, charges will be waived.

This limited warranty does not apply to any Products or Parts which have been damaged through misuse, negligence or accident (including shipping damage) on the part of Buyer or any third party. This limited warranty does not apply to any Product in which Parts other than replacement Parts or Parts approved by Tri W-G, Inc. have been used if said Parts are or may be the cause of failure.

FOR ANY BREACH OF WARRANTY, EXPRESSED OR IMPLIED, THE LIABILITY OF TRI W-G, INC. IS HEREBY EXPRESSLY LIMITED, AND SUBJECT TO THE TERMS HEREIN, TO THE REPAIR OR REPLACEMENT OF ANY PRODUCT OR PART WHICH SHALL APPEAR TO BE DEFECTIVE IN THE OPINION OF TRI W-G, INC. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL TRI W-G, INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. NO CLAIM FOR BREACH OF WARRANTY FOR PRODUCTS OR PARTS FURNISHED HEREUNDER SHALL BE ASSERTED AGAINST TRI W-G, INC. MORE THAN TWENTY (20) DAYS AFTER THE

NOTES:

Manufactured and Distributed by:



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