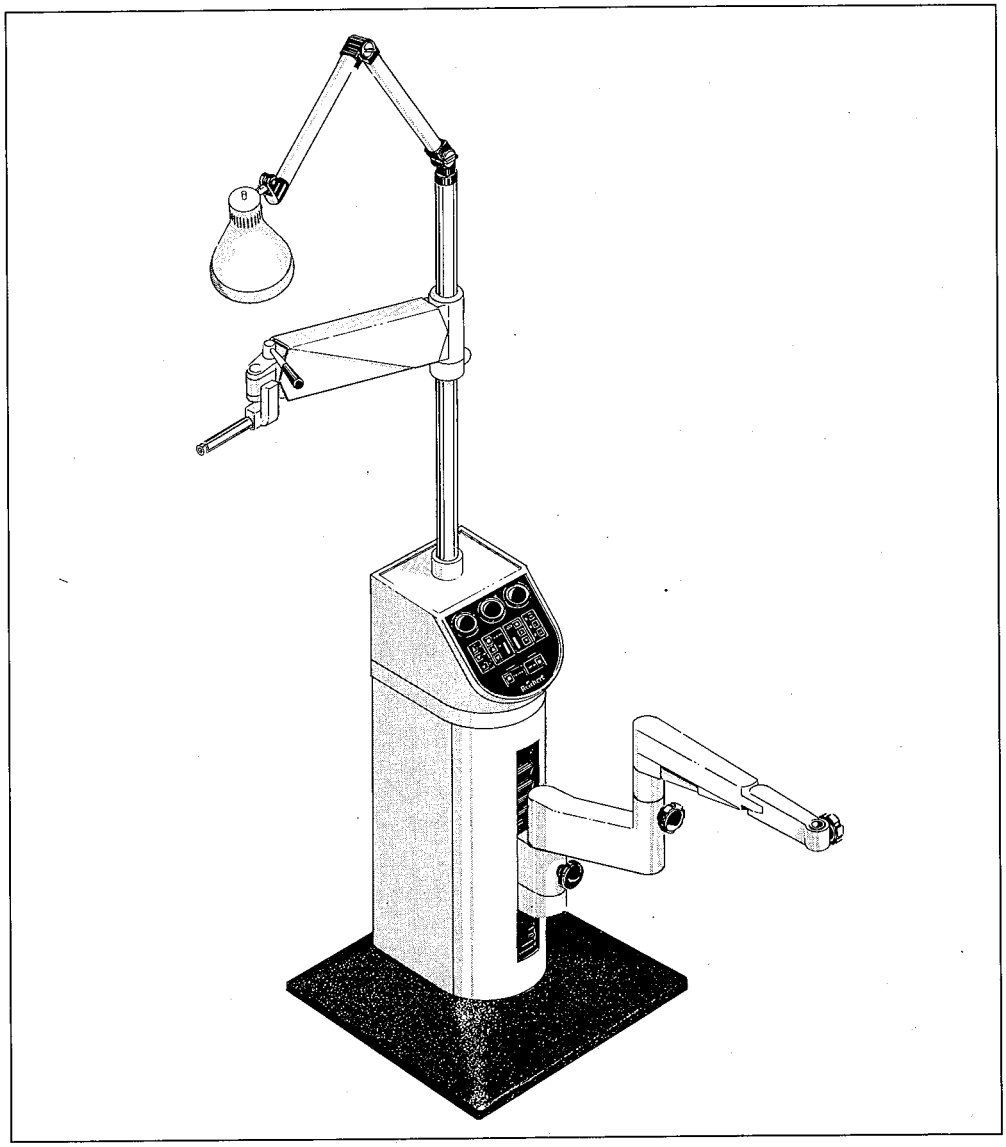
Reichert
Ophthalmic Instruments

PREMIER™
STAND AND CONSOLE
ADVANCED POSITIONING SYSTEM



A Division of Leica

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Thank you for purchasing the Reichert Premier™ Stand Model 14363 and/or Premier™ Console Model 14364.

We recognize the value of your contribution to health care and want to provide the instruments to support the best possible patient care. So, please take a few moments to complete this form. We'd like to know what you think about our products, what new products you'd like to see and what improvements could be made if any. Your thoughts and plans are important to us and help us prepare for the future.

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Dealer Sales Rep. _____

Invoice # _____

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Non-Contact™ Tonometer II				
Keratometer™				
Lensometer™				
Vertometer™				
Radiuscope®				
Standard Project-O-Chart®				
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Ful-Vue™ Diagnostic Instruments				
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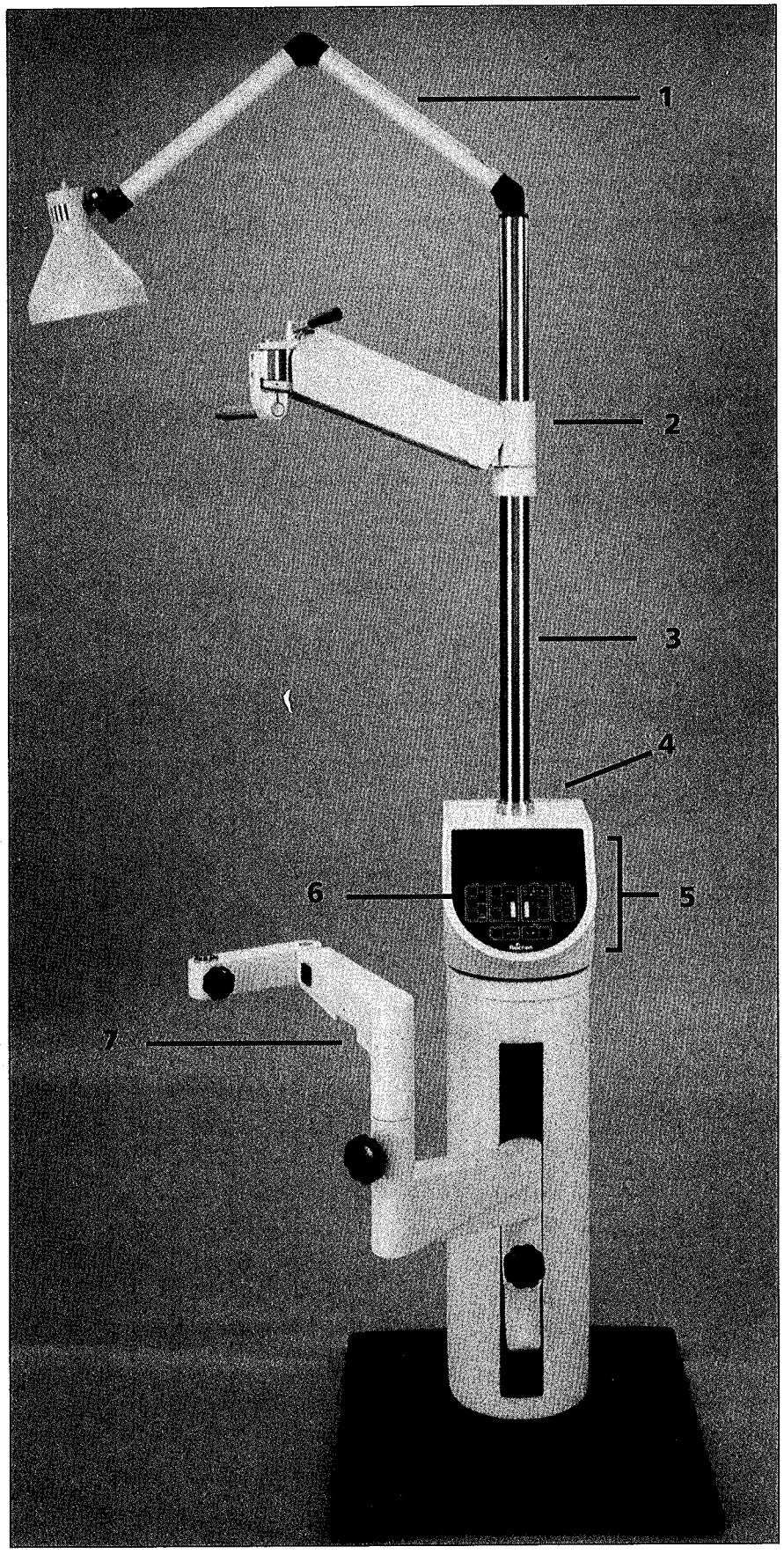
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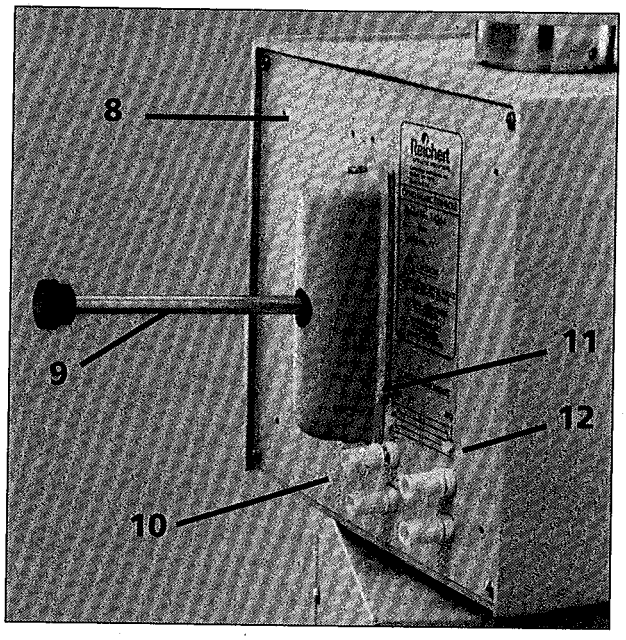
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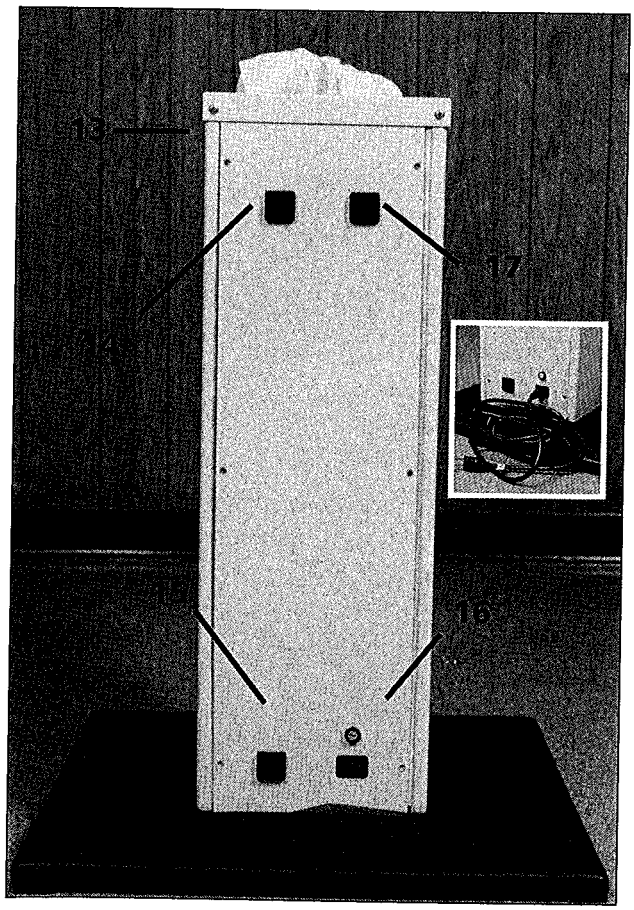
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PRODUCT

This manual should be used in reference to the Reichert Premier Stand Model 14363 and Premier Console Model 14364.

PACKAGE CONTENTS

THE STAND

Contents of the shipping container should include the following:

1	Instrument Stand		
1	Post		
1	Counter-balanced Lower Arm		
4	Weights:	1	5.1 lb
		1	7.7 lb
		1	10.2 lb
		1	13.0 lb
1	Refractor Arm		
1	Lamp Arm		
1	Lamp Cord		
1	Power Cord		
1	Instruction Manual		

THE CONSOLE

Contents of the shipping container should include the following:

1	Console
1	Stand Cover
1	Instruction Manual

INSTRUMENT COMPONENTS

1. Lamp Arm
2. Refractor Arm
3. Post
4. Post Ring
5. Console (Optional)
6. Console Control Panel
7. Lower Arm
8. Console Back Panel
9. BIO Hanger (Optional)
10. Auxiliary & BIO Binding Posts
11. Auxiliary Voltage Regulation Switch
12. BIO Voltage Regulation Switch
13. Stand Back Panel
14. Power Outlet
15. Power Outlet
16. Power Inlet
17. Power Outlet
18. (Inset) Power Cord

INTRODUCTION

The Premier Stand and Console are integral components of the Premier Advanced Positioning System (APS). The Premier APS combines State-of-the-Art microprocessor technology and ergonomic design to provide the utmost versatility in patient and instrument positioning.

All components of the Premier APS are designed and manufactured to meet rigid quality standards. Careful adherence to installation and maintenance recommendations will ensure long lasting, trouble-free service.

ELECTRONIC COMMUNICATION SYSTEM

The Premier APS communicates through a microprocessor based communication link operating at 1200 Baud. This allows APS components which are connected to the same electrical circuit and have the same communication code to "talk" and "listen" to each other through the room's existing electrical power wires.

Each chair is given a unique communication code at the factory. It is recommended that the codes for stands, consoles, etc. used in a particular lane be set to match only the chair in that lane. There are 65536 different code combinations so there should be no need to duplicate communication code settings in any given practice.

STAND OPERATION

THE COUNTER-BALANCED LOWER ARM

1. Loosen knobs to allow movement.
2. Pull lever up to raise or lower the arm.
3. Release lever when proper height is reached.
4. Position arm laterally and tighten knobs.

THE LAMP (Figure 1)

1. Position the lamp, adjusting knobs (A and B) if necessary.
2. Turn lamp ON by using the lamp switch (C) or the lamp ON/OFF key on the console.

THE REFRACTOR ARM (Figure 2)

1. Loosen cam lock (D) to allow for vertical and lateral positioning.
2. Position the arm and tighten cam lock.

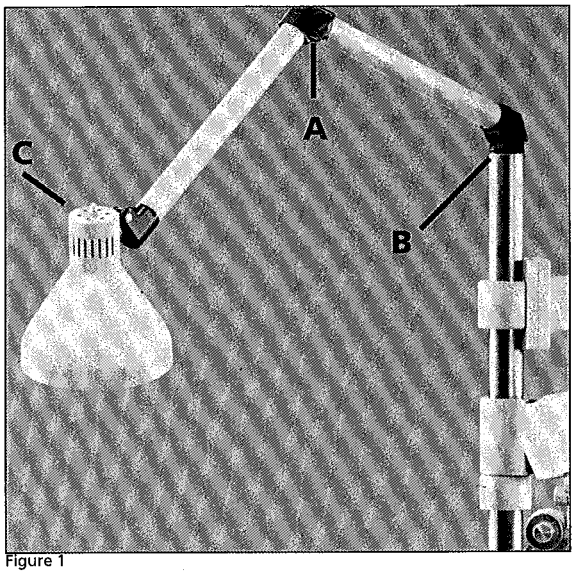


Figure 1

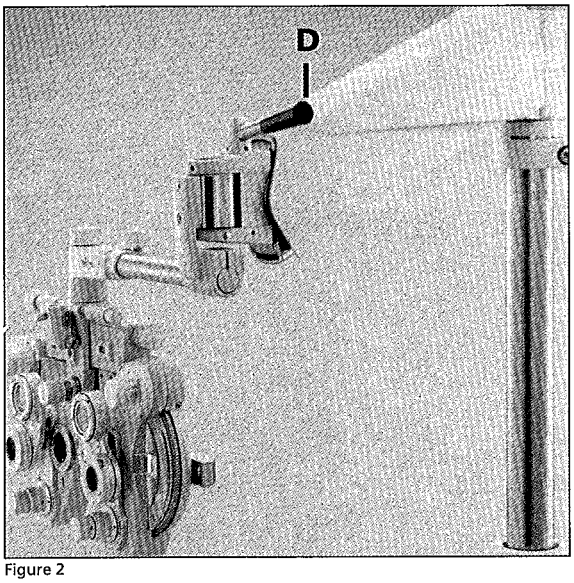
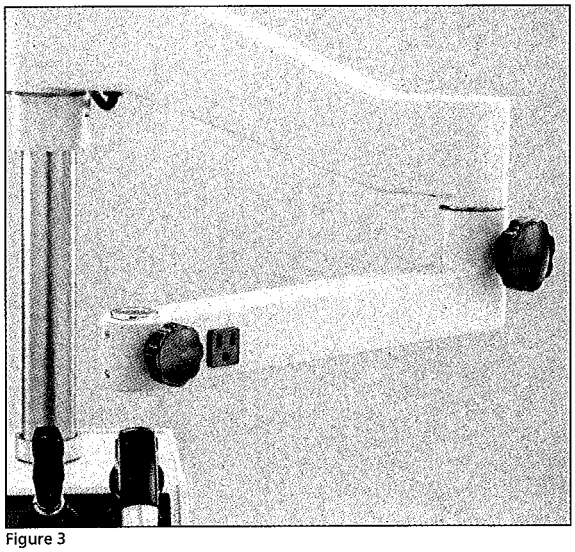


Figure 2


Figure 3

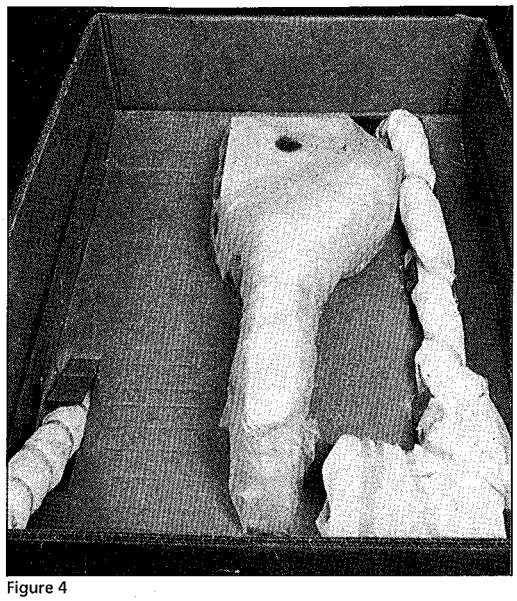


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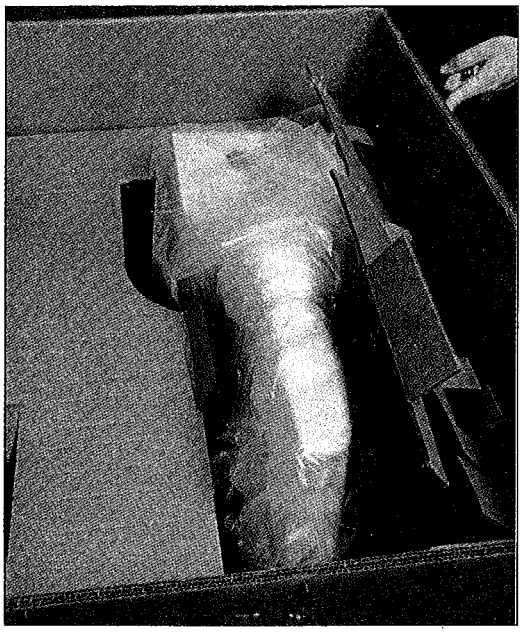


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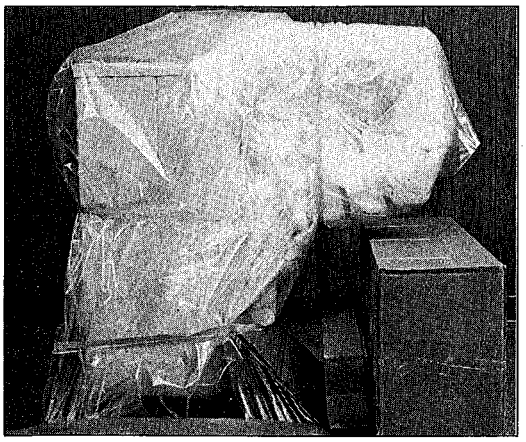


Figure 6



Figure 7

THE 3RD ARM (optional) (Figure 3)

1. Loosen knobs to allow movement.
2. Position arm and tighten knobs.

STAND INSTALLATION

To speed and simplify installation, carefully follow the sequence in which the instructions are presented. Care should be taken when moving the stand.

1. Determine the proper location for the stand taking the following into consideration:
   a. instrument positioning relative to the patient
   b. space needed for movement of instrument arms

2. Unpack the stand as follows:

   a . Cut the bands around the outer sleeve and lift cap.
   b. Unpack the stand post, lamp arm and extra screws (Figure 4).
   c . Remove cardboard insert and outer sleeve (Figure 5).
   d. Remove refractor arm and weight boxes (Figure 6).
   e . Pull back base flaps (Figure 7) and remove packing materials.
   g. Tear off cardboard at back of stand along perforations.
   h. Tip stand backward and slide the stand off the pallet.

3. Place the stand in its designated position.
4. To install the stand with a Premier Chair, see Section entitled LINK ATTACHMENT.

5. Unscrew the six screws on the back panel and carefully remove panel.
6. Determine weight of the instrument to be placed on the lower arm and the appropriate counter-balancing weight.
7. Remove wood shims, power cord and lamp cord (Figure 8). Position the lower arm in its lowest position and lock. The weight platform should now be at its highest point.
8. Remove corrugated tube (Figure 8).
9. Carefully position lower arm so it is at its full height.
10. Place the necessary weight(s) on the weight platform.
11. Unpack and install the Premier Console (optional) referring to the section entitled "CONSOLE INSTALLATION".
12. Insert the post (3) and post ring (4) into the hole in the stand. Check that the lock screw (Figure 8) does not obstruct the hole. Secure the post by tightening the screw in the post ring. The post should not be able to be rotated.
13. Unpack and install the 3rd Arm (optional). Lower the arm over the post and into the designated position. With the socket head screw facing the rear of the instrument, tighten screw with a 5/16 inch Allen wrench to secure.
14. Unpack and install the Refractor Arm. Lower the arm over the post to its designated position. With socket head screw facing rear of instrument, tighten screw with a 5/16 Allen wrench to secure.
15. Install lamp and lamp arm by connecting the lamp cord to the lamp and feeding the cord through the center of the post (Figure 9).
16. Insert the lamp arm into the end of the post. Insert and tighten the slot head screw to secure. Do not over tighten.
17. Place the lamp arm in the desired position.
18. Plug the lamp cord connector into connector J-4 of the stand junction board and attach ground wire (Figure 10).
19. Check that all internal electrical connections have been made.
20. Attach stand back panel by replacing the 6 screws. It is important that these screws are not over tightened.
21. Connect the power cord from the 3rd arm to the power outlet labeled "ARM" on the back of the stand.
22. Plug power cord into the stand and a wall power outlet.
23. Install instruments. Instruments are held into position by inserting the instrument base post into the arm hole, tightening the knob and plugging the instrument into the arm outlet.

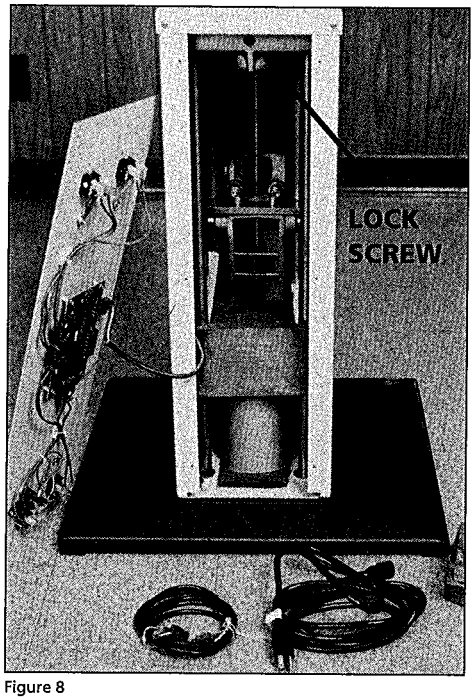
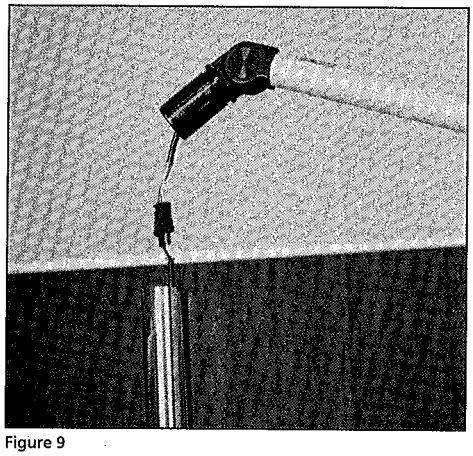


Figure 8


Figure 9

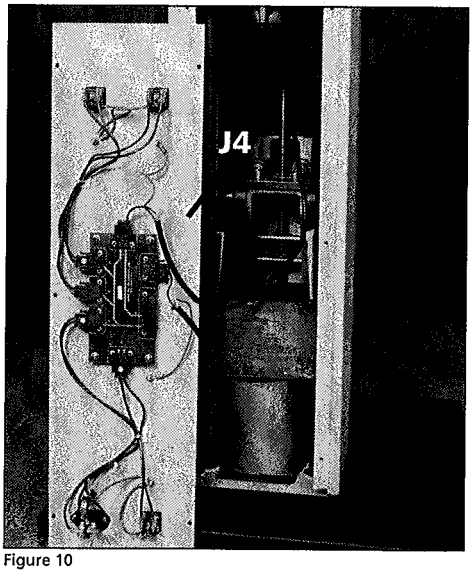


Figure 10

CONSOLE OPERATION

The console has 15 function keys. These keys, shown in Figure 11, are described below.

MAIN SYSTEM CONTROL (1)

ON/OFF — Turns the console and all instruments which are attached to the stand, ON or OFF when the key is pressed.
When the console is on, this key will be lit.

ROOM CONTROL (Optional) (2)

ON/OFF — If the optional control unit is installed, the console will turn the room lights ON or OFF when the key is pressed.

CHAIR CONTROLS (3)

UP — Elevates the chair while the key is pressed.

DOWN — Lowers the chair while the key is pressed.

PRG DOWN — Returns the chair to its lowest position when the key is pressed once.

LAMP CONTROLS (4)

ON/OFF — Turns the lamp ON or OFF when this key is pressed.

HI — Increases lamp intensity while the key is pressed and the lamp is ON. The lamp's intensity is indicated by the 10 segment LED bar to the right of the key.

LO — Decreases the lamp intensity while the key is pressed and the lamp in ON. The lamp's intensity is indicated by the 10 segment LED bar to the right of the key.

CORDED INSTRUMENT CONTROLS (5)

SEL AUX — Applies power to corded instruments plugged into the auxiliary terminal.

BIO — Applies power to the BIO terminal.

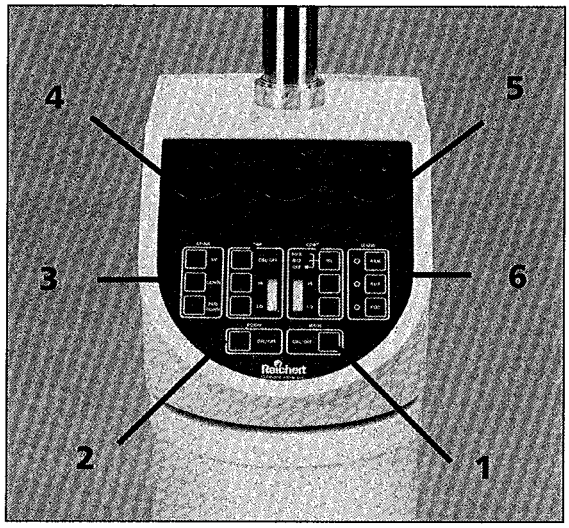


Figure 11

HI — Increases power to the BIO or auxiliary terminal, while the key is pressed. The range is indicated by the 10 segment LED bar.

LO — Decreases the power directed to the BIO or auxiliary terminal while the key is pressed. The power range is indicated by the 10 segment LED bar.

STAND CONTROLS (6)

ARM — Applies power to the lower arm outlet.

AUX — Applies power to the "Aux" outlet on the stand back.

POC — Applies power to the "POC" outlet on the stand back.

VOLTAGE REGULATION

In addition to the console's function keys, the console is equipped with switches which control the voltage level of corded instruments (see Figure 12). The switches can be set at 2.5v, 3.5v, 5.5v, 6.5v, and 7.5v. Once set, voltage can be varied .5v in either direction by using the "HI" and "LO" keys.

CHARGING WELLS

When a rechargeable handheld instrument is placed in the well, the message "charge" will appear on the console indicating that the instrument is recharging. An optional well is available for the MIO or Giantscope.

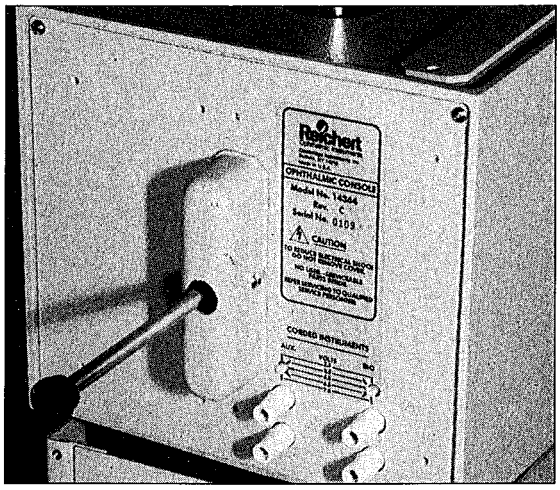


Figure 12

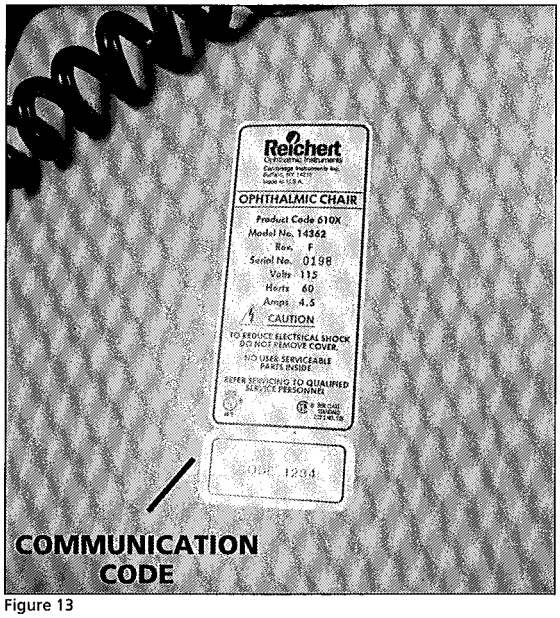
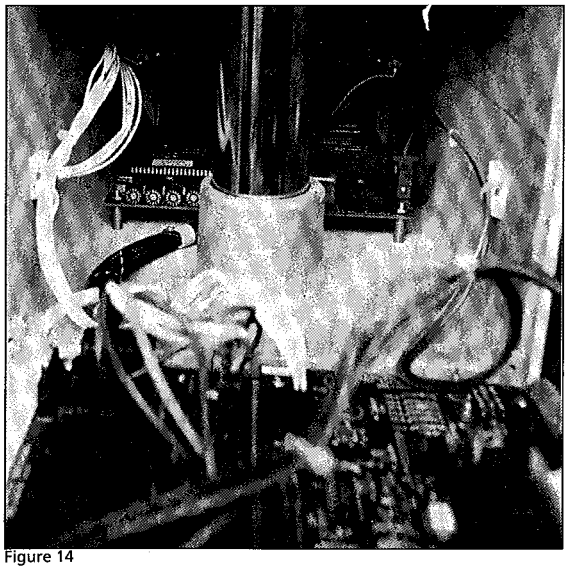


Figure 13


Figure 14

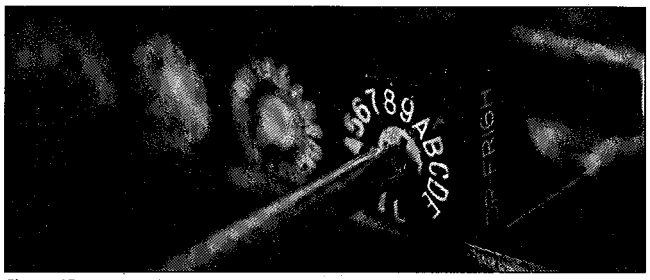


Figure 15

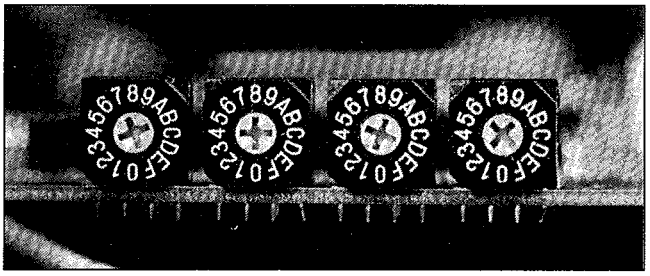


Figure 16

CONSOLE INSTALLATION

1. Remove stand cover by unscrewing the top two screws in the back of the stand. Replace with the stand cover included with the console.
2. Place the console on top of the stand so the holes in the console line up with the round hole in the stand cover and the console wiring falls through the diamond shape cutout.
3. Insert the post and post ring into the holes in the console and stand.
4. Place set screw on the post ring toward the back of the stand and tighten.
5. If using with a Premier Chair set the console's communication code to match the code in the chair as follows:

Please Note: The chair's communication code is located on a label on the back base shroud of the chair (Figure 13).

a. Remove 4 screws from the console's back panel and remove panel. The code switches are located on the left side of the console (Figure 14).
b. Insert a Phillips head or other small head screwdriver into the cross notch (see Figure 15).
c. Turn the screwdriver until the white mark on the code dial points toward the desired number/letter. The code in Figure 16 is set at 1234.

Please Note: Make sure the console has the same code as the chair. The codes must be the same in order for the console to operate properly.

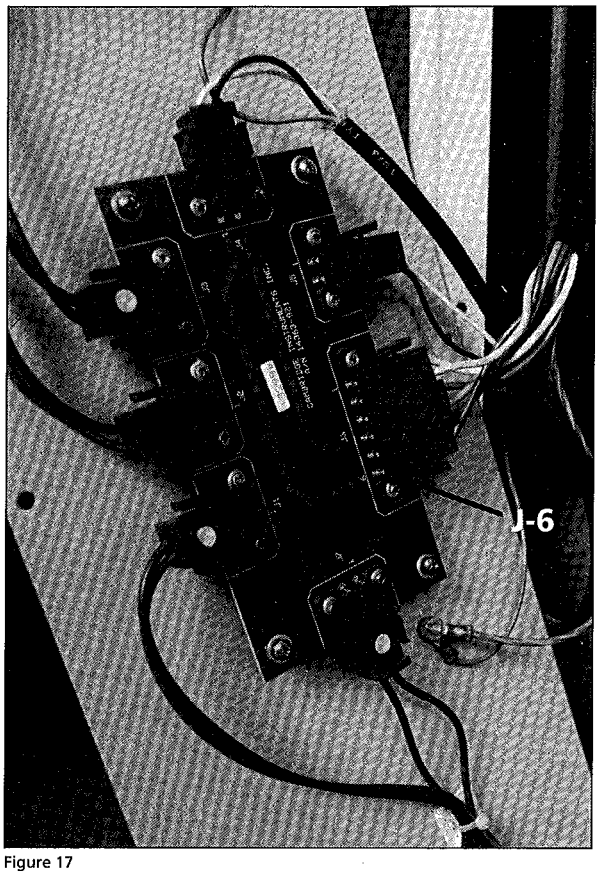


Figure 17

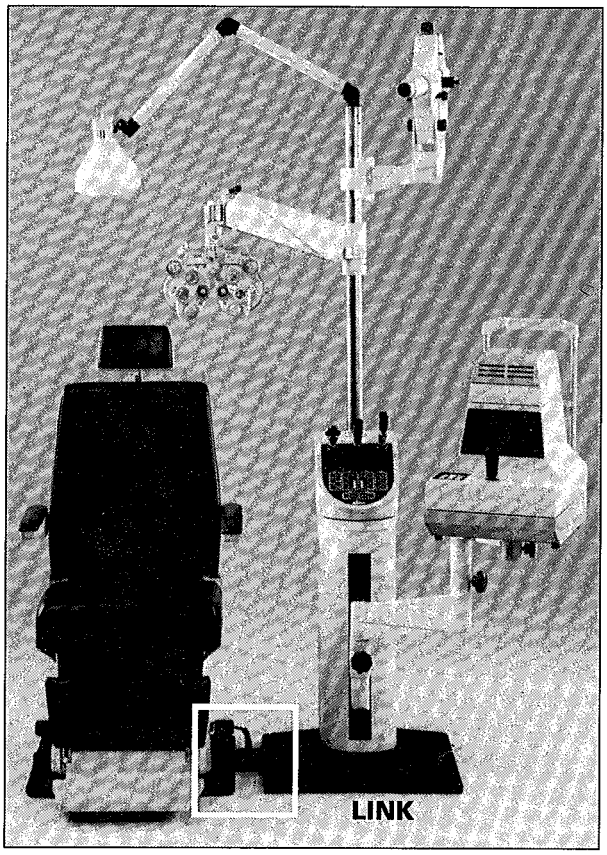


Figure 18

6. Connect the console power harness to Connector J-6 of the stand junction board on the rear panel of the stand (Figure 17).
7. Attach ground to ground lug on rear panel.
8. Replace the console's back panel by screwing in the 4 set screws.

LINK ATTACHMENT

The Premier Stand can be attached to a Premier Chair with a mechanical link. A link is furnished with every Premier Chair. To attach the link:

1. Place the link so it can be conveniently attached to both the chair and stand (see Figure 18). The link can be attached to either side of the stand.
2. Slide the link under the base of the chair so the power cord exits the link from the back.

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