Reichert
Ophthalmic Instruments

INSTRUCTION MANUAL

PREMIER™

MANUAL RECLINE CHAIR

ADVANCED POSITIONING SYSTEM



A CAMBRIDGE INSTRUMENTS COMPANY

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Serial # _____

Dealer _____

Dealer Sales Rep. _____

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Keratometer™				
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LongLife™ Project-O-Chart®				
Vistamaster Giantscope				
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XPERT™ NCT™ Advanced Logic Tonometer				
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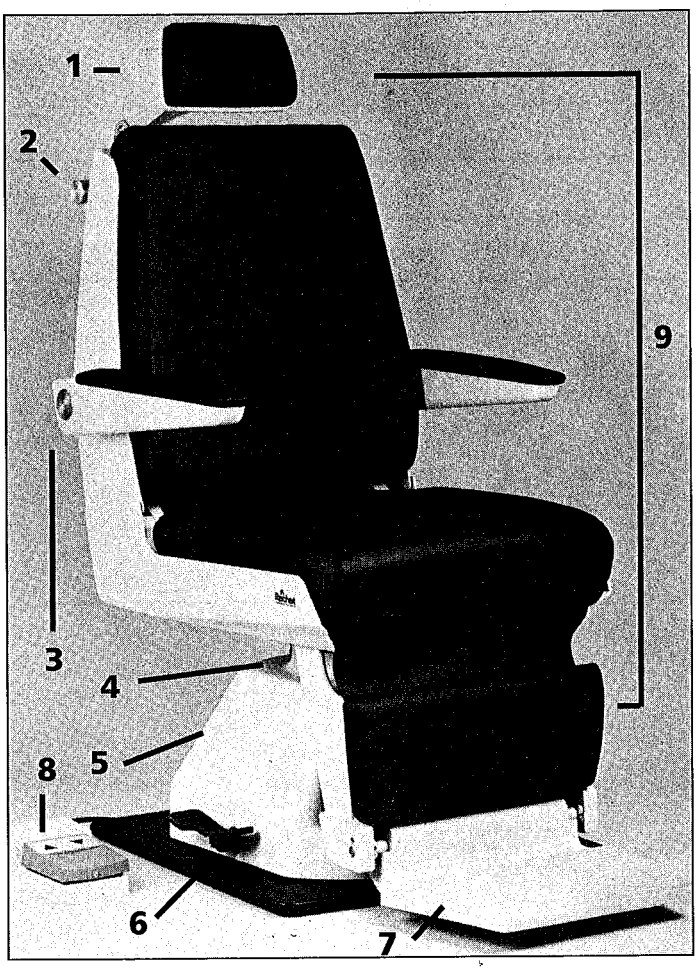
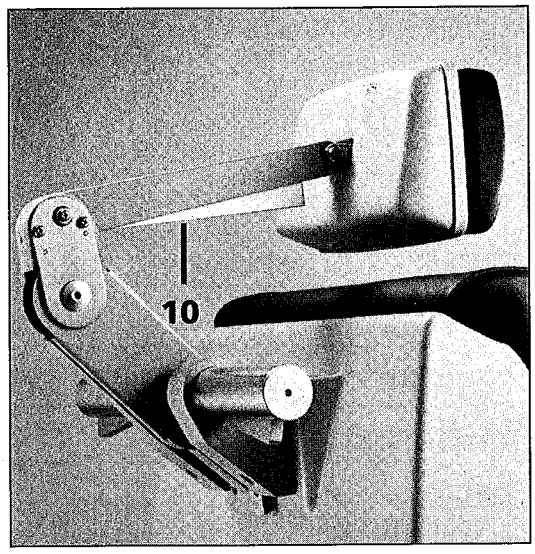
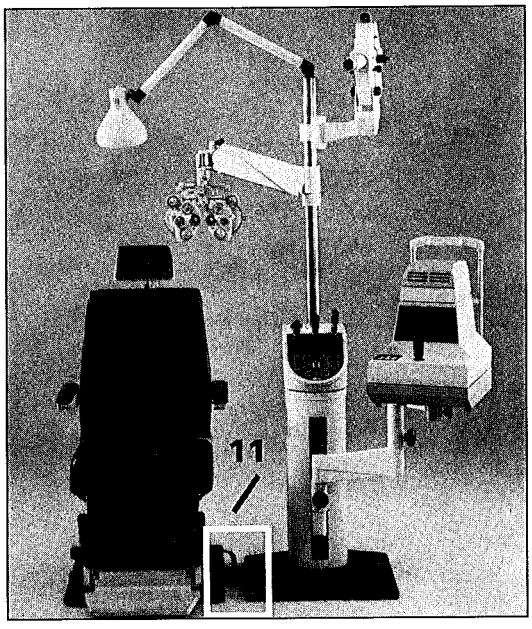






PRODUCT

This manual should be used in reference to the Reichert Premier Manual Recline Chair Model 14360.

PACKAGE CONTENTS

Contents of the shipping container should include the following:

1 Premier Manual Recline Chair
1 Power Cord
1 Footswitch
1 Link
1 Instruction Manual

INSTRUMENT COMPONENTS

1. Headrest
2. Recline Lock
3. Arm Rest
4. Shroud Ring
5. Base Shroud
6. Rotation Lock
7. Foot Rest
8. Footswitch
9. Upholstery Set
10. Head Rest Locking Lever
11. Link

INTRODUCTION

The Premier Manual Recline Chair is an integral component 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 insure 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. This code is shown on the label attached to the chair and can be reset in the field if necessary (see section entitled "Code Reset"). 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 and, consequently, communication code settings should not be duplicated.

OPERATION

CHAIR

The chair can be raised or lowered using either the footswitch or the optional console.

Recline the chair by holding in the recline lock (2) while moving the chair back upward or downward.

FOOTSWITCH

UP Arrow	Elevates the chair while the key is pressed.
DOWN Arrow	Lowers the chair while the key is pressed.

HEAD REST

The head rest (1) is positioned by holding the locking lever (10) in while positioning the headrest. Relock by releasing the lever.

ARM RESTS

The arm rests (3) are designed with positive detent locks. To position the arm, gently raise the outer end of the arm. The detent should be felt while lifting the arm and again when the arm reaches the upright position.

ROTATION FOOT LOCK

To set the rotation lock (6), step firmly on the side of the lock marked "ON". To disengage, step firmly on the side marked "OFF".

AUTOMATIC SHUTOFF

To increase safety and operating life, the Premier's microprocessor will automatically turn off the hydraulic pump after 20 seconds and close the hydraulic valve after 30 seconds of operation. Chair functions are performed in approximately 30 seconds or less.

INSTALLATION

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

1. Determine the proper location for the chair and stand, taking the following into consideration:
   a. Space needed for lift, rotation and tilt (refer to Figure 1)
   b. Instrument positioning
   c. Chair and console control access
   d. Refraction and projection distances

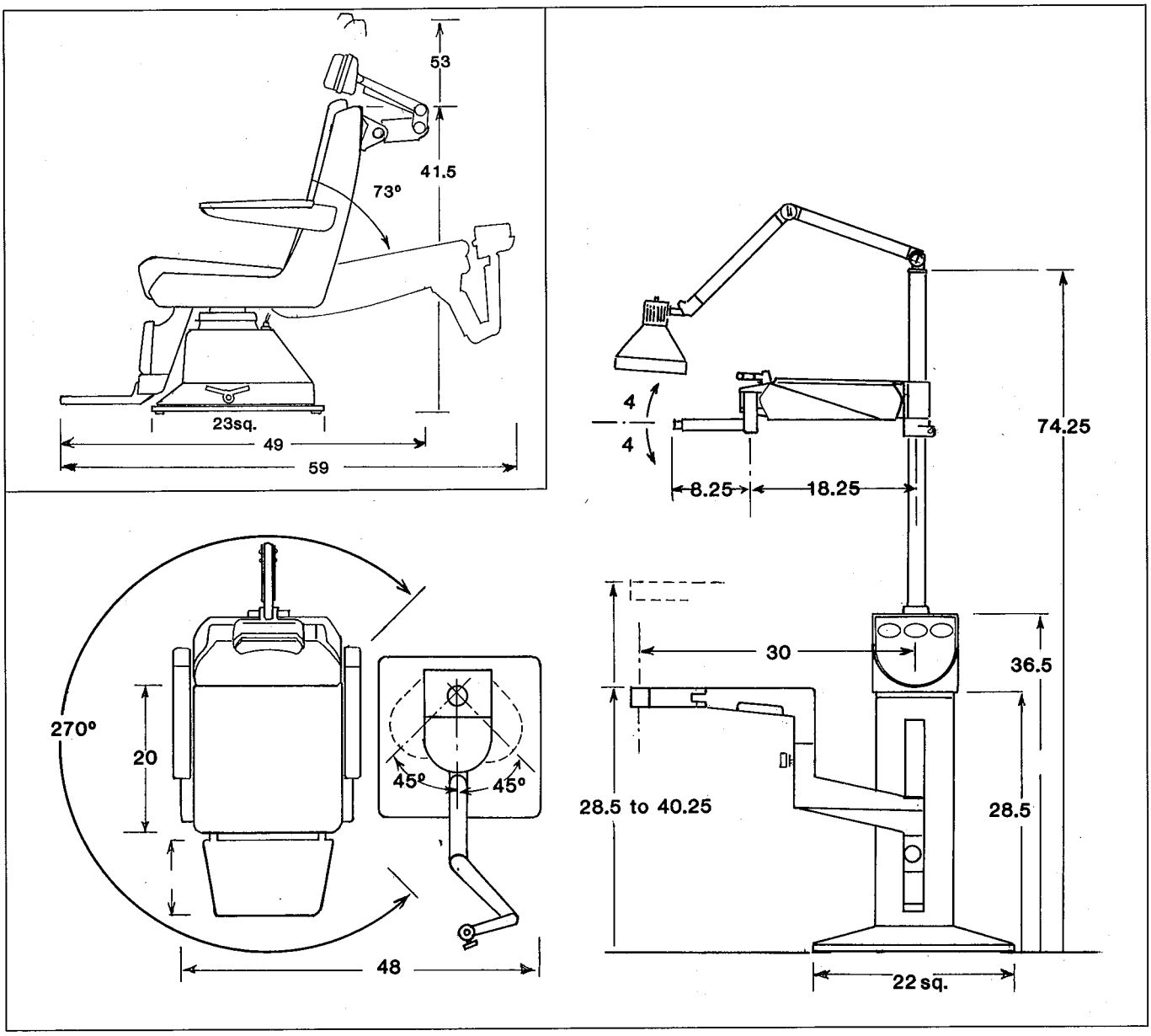


Figure 1

2. When unpacking the chair do not lift, push or pull the chair by its body panels. To unpack:

   a. Cut the bands on the outside of the carton and lift the cap.
   b. Carefully remove cardboard insert (Figure 2).
   c. Unpack footswitch (8) and carefully remove outer sleeve from around chair.
   d. Remove tape from around the bottom of the chair (Figure 3).
   e. Detach cardboard flaps (A and B) from around chair base (Figure 4).
   f. Tear off front piece of cardboard along perforations (Figure 5). Press down any loose staples.
   g. Place hands on chair seat at points C and D as shown in Figure 6. Carefully pull chair off pallet.

Please Note: Do not lift the chair by the extreme ends of the arms as this places a large force on the arm joint and may damage it.



Figure 2

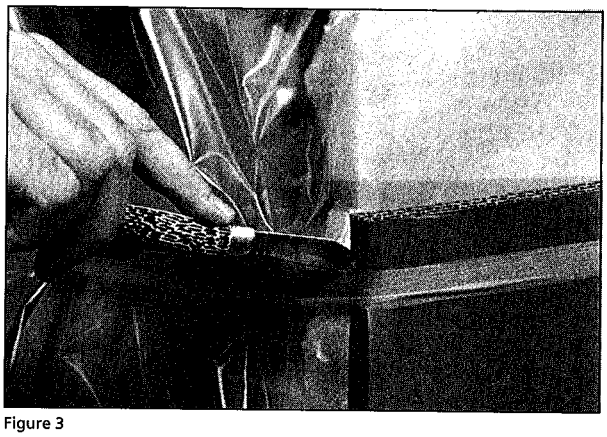
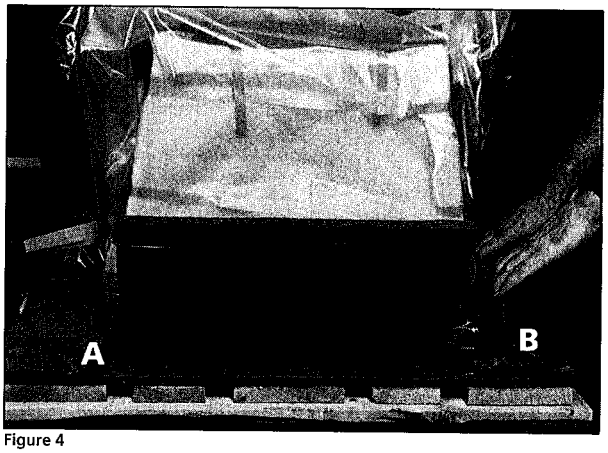


Figure 3



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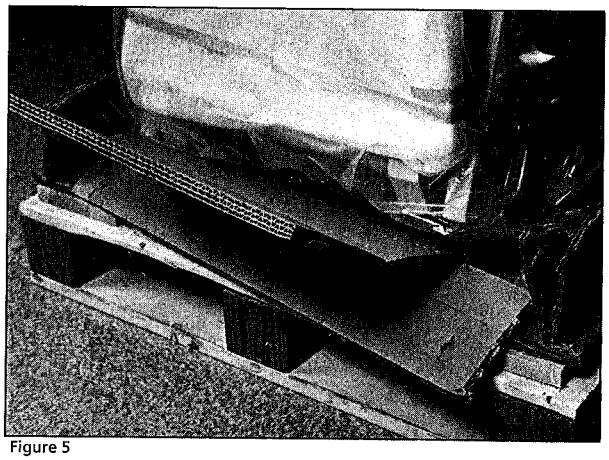


Figure 5

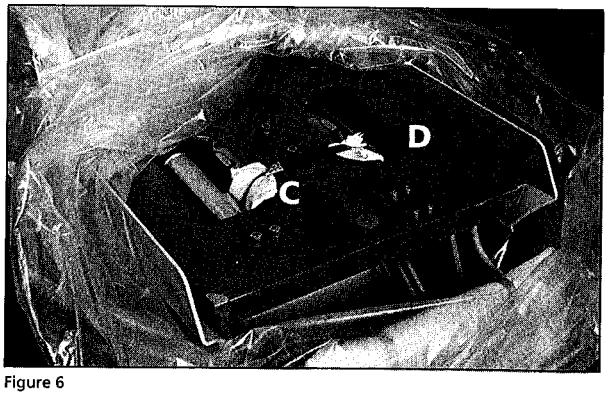


Figure 6

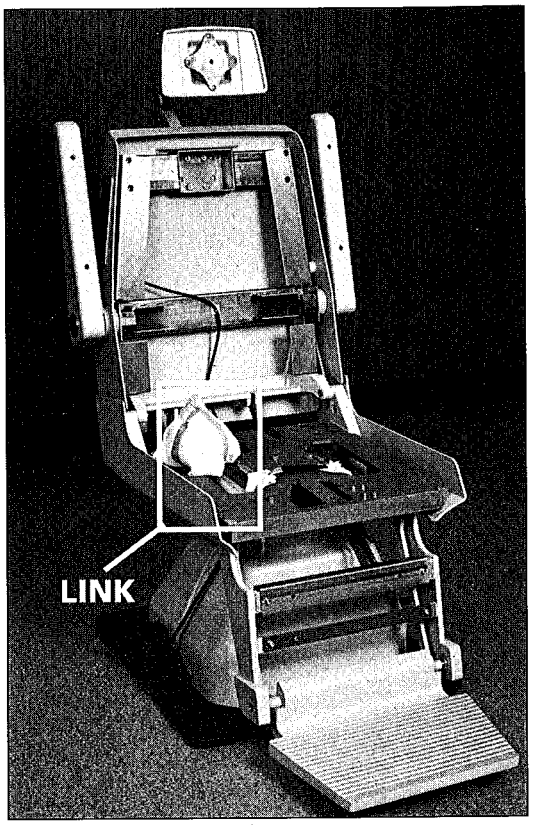


Figure 7

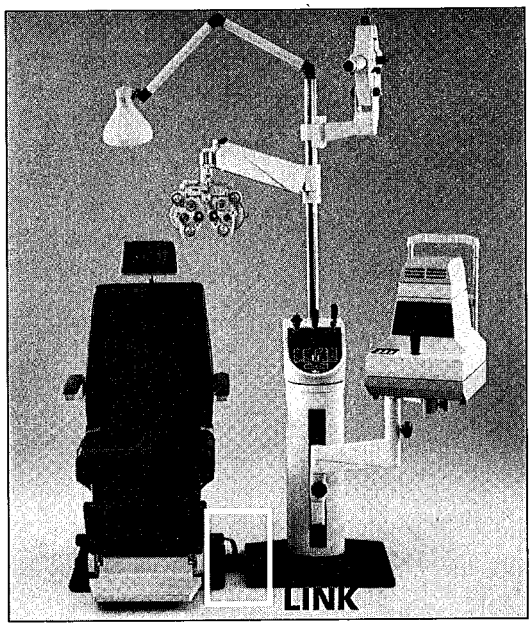
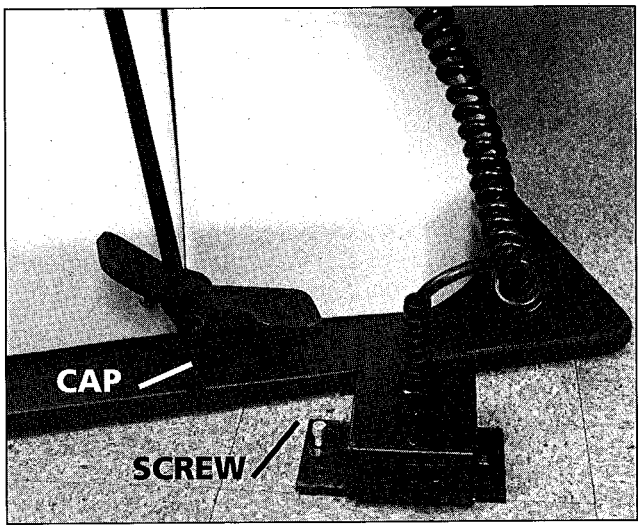


Figure 8

h. Remove tape, foam and plastic from around chair. The plastic bag should be cut around the bottom of the chair for easy removal.
i. Tip chair to remove the rest of the plastic.



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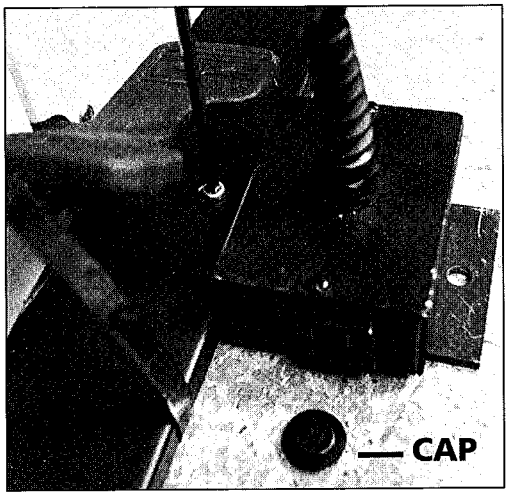


Figure 10

j. Unwrap the link (11) (see Figure 7) and slip the link through the gap between the chair seat and back.

3. Place the chair in its designated position.
4. Place the link so it can be conveniently attached to both the chair and the stand (see Figure 8). The link can be on either side of the chair.
5. Locate the caps on chair base (Figure 9). Remove the cap nearest the link with a flathead screwdriver.
6. Attach link to the chair as follows:
   a. Remove 5/16" screw from the link with a Phillips head screwdriver (Figure 9).
   b. Slide link under base of chair so the power cord is toward the back of the chair.
   c. Align the hole in the link with the hole in the chair base.
   d. Attach the link to the chair base with the link screw (Figure 10). Replace cap.

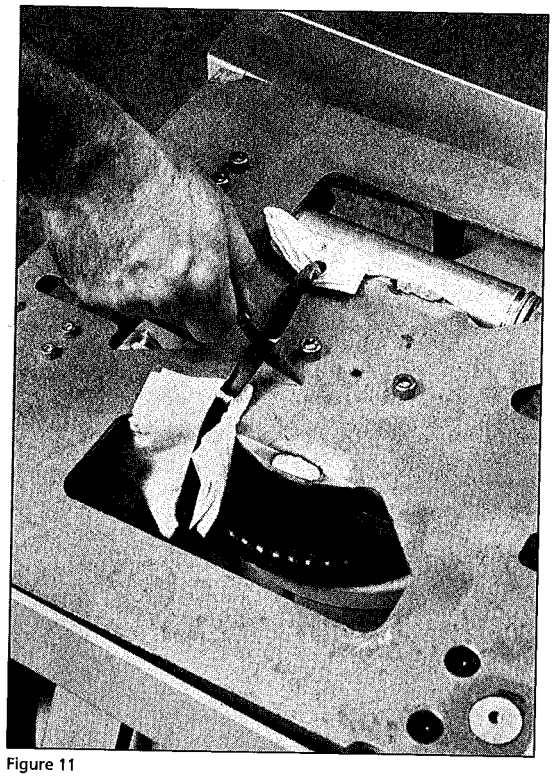
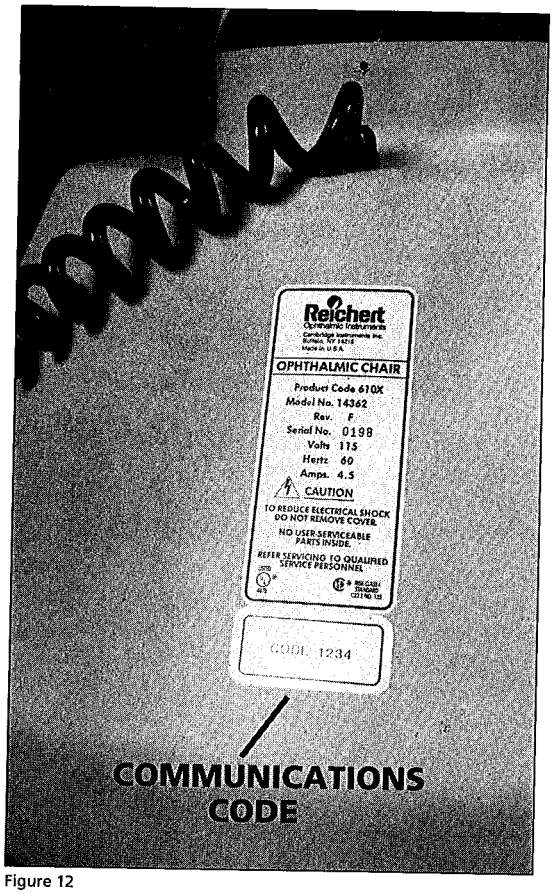


Figure 11



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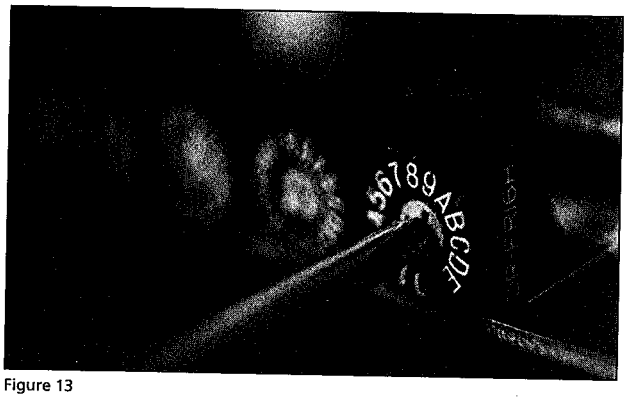


Figure 13

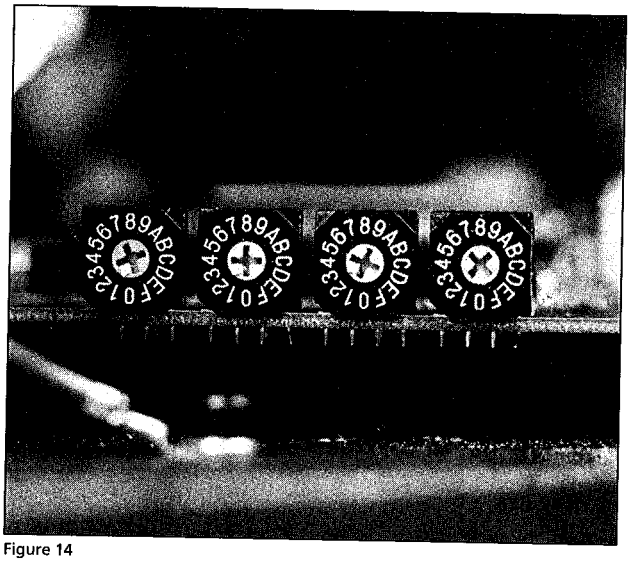
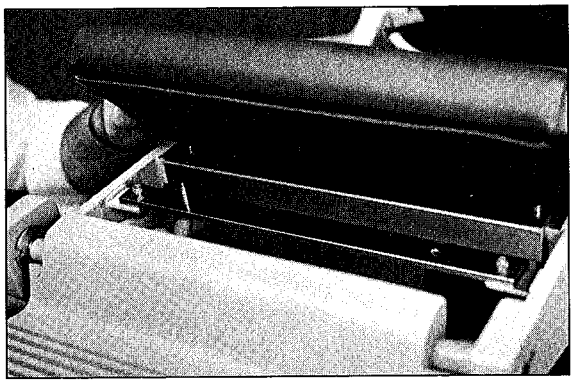


Figure 14

7. Cut the band encompassing the seat and base (Figure 11).
8. Plug the footswitch into the front of the link. Note the code dials on the back of the footswitch; the code is indicated by the white markings on the code dial.
9. Verify that the code in the footswitch is the same as the chair's communication code (refer to section entitled "Electronic Communication System"), which is located on the back base shroud of the chair (see Figure 12). The codes must be the same in order for the footswitch to operate. If the codes do not match, set the code into the footswitch's code dials as follows:
   a . Insert a Phillips head or other small head screwdriver into the cross notch (see Figure 13).
   b. Turn the screwdriver until the white mark on the code dial points toward the desired number/letter. The code in Figure 14 is set at 1234.



Figure 15



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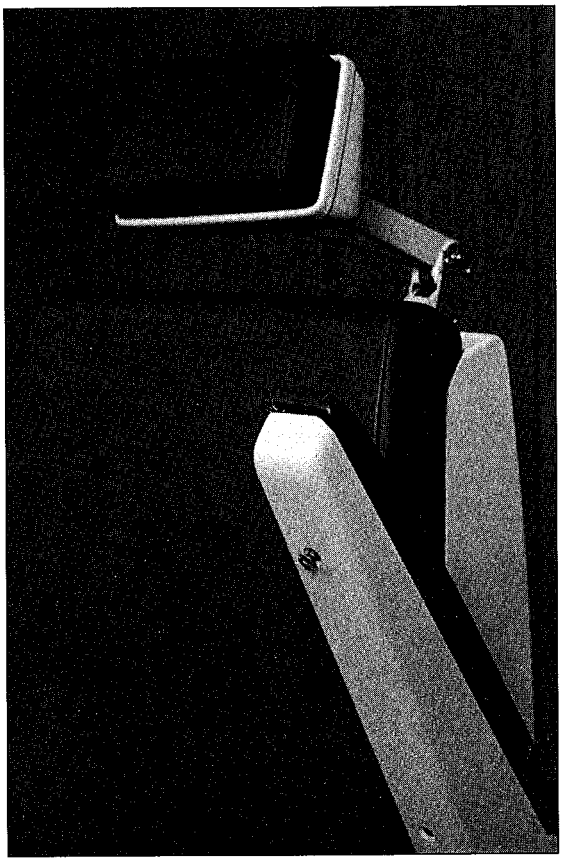


Figure 17

10. Plug the power cord into the back of the link and into a wall power outlet. If using with a Premier Stand, plug the power cord into the link and the stand.
11. Fit upholstery (9) into place as follows:
    a. Attach headrest pad and chair back upholstery to chair (Figure 15).
    b. Attach seat upholstery with flap over calf rest.
    c. Place calf rest pad in position and screw in with wood screws (Figure 16).
    d. Position arm rest inserts and attach to chair with wood screws (Figure 17).

ELECTRICAL CHECK

The Premier's functions are microprocessor controlled and should be tested to ensure proper operation.

1. Start the electrical check with the chair fully lowered and in the upright position.
2. Press and hold the UP Arrow on the footswitch for 5 seconds. The chair will rise while the switch is depressed.
3. Press and hold the DOWN Arrow on the footswitch. The chair will descend while the switch is depressed.

MECHANICAL CHECK

1. Rotate the chair in both the upright and reclined position. Be certain the headrest and foot rest (5) clear all obstacles and the operator has sufficient space to examine the patient.
2. Make any positioning adjustments at this time. Care should be taken to avoid pushing or pulling on the body panels.
3. If rocking is evident in the chair, level the chair with a shim.
4. Check both rotation locks for ease of use and effectiveness as follows:
   a. Step firmly on the side of the rotation lock marked "ON".
   b. Attempt to turn the chair. There should be no motion. If there is motion, adjust the locks.

To adjust the locks:

   a. Set the lock to the OFF position as indicated on the rotation lock.
   b. Using a 3/16 inch Allen wrench, turn the hex screw in the center of the lock clockwise.
   c. Check for motion by locking and unlocking the lock and adjusting the screw until the desired locking action is achieved.

5. With arms in the down position, check the arm detents by gently raising the outer end of the arm. The detent should be felt while lifting the arm and again when the arm reaches the upright position.
6. Check the motion of the headrest. Unlock the headrest by squeezing the locking lever in. Hold the lever in while positioning the headrest. When the lever is released, the headrest will lock. A detent may be felt when the lever is released. If a detent is not felt, the headrest may not be securely positioned.
7. Check the motion of the chair back. Unlock the recline lock by squeezing the handles. Move the chair back downward and upward. When the handles are released, the chair back will lock into position.

CODE RESET

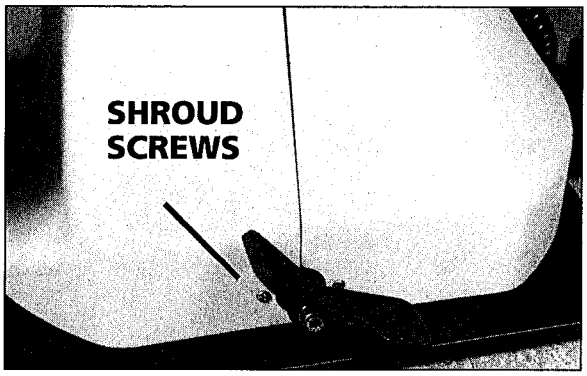
If you should desire to reset the code for any reason, proceed as follows:

1. Check the communication codes of other chair and stand units to ensure that the "new" communication code is not duplicated in the building. If the code is not unique, other lanes using the same electrical circuit may be unintentionally affected.
2. Unplug the power cord from the wall power outlet.
3. Remove the base shroud (5) as follows:
   a . Unscrew the four shroud screws on either side of the base (see Figure 18).
   b. Lift the black shroud ring and remove base shrouds.

The code switches are located on the back, left side of the chair base.

4. Change the code by inserting a Phillips head or other small head screwdriver into the cross notch (see Figure 19).
5. Turn the screwdriver until the white mark on the code dial points toward the desired number/letter. The code in Figure 20 is set at 1234.
6. Place the base shrouds back into position and replace screws. Slide the shroud ring over the lip of shroud.
7. Plug the power cord into the wall power outlet.

Please Note: To ensure proper operation, make sure each component (footswitch, stand, etc.) is set with the same communication code and that the code is unique to your lane.



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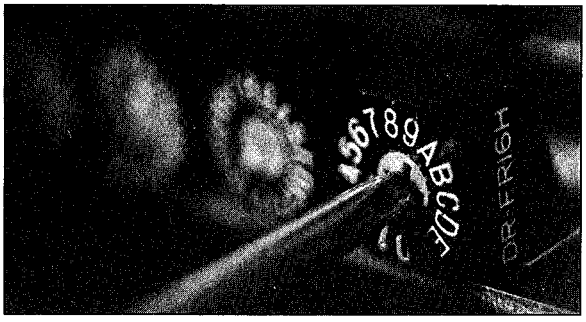
Figure 19

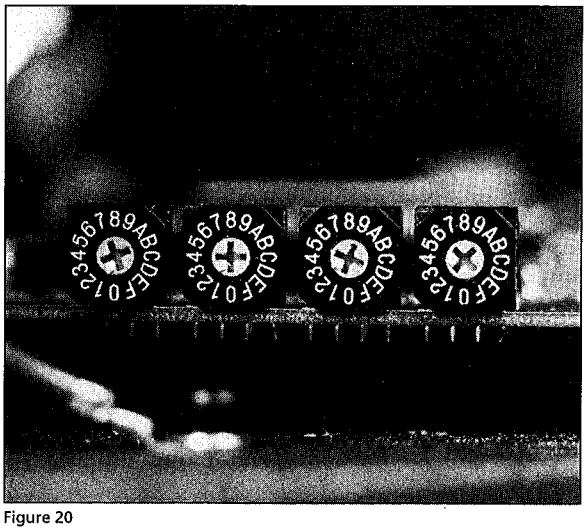
Figure 20

OTHER REICHERT PRODUCTS

To complement your Reichert Premier Chair, we invite you to take a look at the other products* made by Reichert Ophthalmic Instruments:

Custom II Chair & Stand
Ful-Vue Diagnostic Instruments
Keratometer
Lensometer
LongLife Project-O-Chart
Monocular Indirect Ophthalmoscope
Non-Contact Tonometer (NCT) II
Premier Auto Recline Chair
Premier Custom Chair
Premier Console
Radiuscope
Standard Chair & Stand
Standard Project-O-Chart
Ultramatic RxMaster Phoroptor
Refracting Instrument
Vistamaster Giantscope
Vertometer
Verhoeff Stereoptor
XPERT NCT Advanced Logic Tonometer

* See Reichert Brand Names/Trademarks/ Tradenames for a list of trademarked names.

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14360-398 12/89 PP

Printed in U.S.A.