

OSC 600

OPHTHALMIC CHAIR



OPERATION AND INSTALLATION MANUAL

SERIAL NUMBER

For your future reference, mark the serial number in the space provided.

Haag-Streit USA Inc.

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MADE IN USA

QUALITY MANAGEMENT
SYSTEM
REGISTERED TO
ISO 13485:2016

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IMPORTANT INFORMATION

SAFETY SYMBOLS



DANGER! WARNING! or CAUTION!

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this Installation and Operating Instructions.



DANGER, AVERTISSEMENT, ou PRÉCAUTION

Le point d'exclamation à l'intérieur d'un triangle équilatéral vise à alerter l'utilisateur à la présence d'importantes instructions de fonctionnement et de maintenance (service) dans ce manuel d'installation et .

NOTE:

Amplifies a procedure, practice, or condition.

REMARQUE:

Amplifie une procédure, pratique ou condition.



Alternating Current-AC



Safe Working Load



"Attention, Consult Accompanying Documents"



Refer to Instruction Manual/Booklet



Type B, Applied Part



Fuse Rating Specification



Protective Earth Ground



Burn Hazard/Hot Surface

TRANSPORTATION / STORAGE CONDITIONS

Temperature: Operating: 59 to 104° F
15 to 40° C

Storage: -22 to +140° F
-30 to +60° C

Relative Humidity: Operating: 5 to 95% without condensation

Storage: 10 to 100% including condensation

Atmospheric Pressure:

Operating: 700hPa - 1060hPa

Storage: 500hPa - 1060hPa

1. INTRODUCTION

1.1. This manual contains information applicable only to the Ophthalmic Chair OSC 600.

1.2. Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.



“DANGER”- THE DANGER SYMBOL IDENTIFIES SPECIAL INSTRUCTIONS OR PROCEDURES WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN LOSS OF LIFE OR PERSONAL INJURY.



« DANGER » : LE SYMBOLE DANGER IDENTIFIE DES INSTRUCTIONS OU PROCÉDURES SPÉCIALES QUI, SI ELLES NE SONT PAS SUIVIES CORRECTEMENT, POURRAIENT CAUSER UNE PERTE DE VIE OU UNE BLESSURE.



“WARNING”- THE WARNING SYMBOL IDENTIFIES SPECIAL INSTRUCTIONS OR PROCEDURES WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY.



« AVERTISSEMENT » : LE SYMBOLE AVERTISSEMENT IDENTIFIE DES INSTRUCTIONS OU PROCÉDURES SPÉCIALES QUI, SI ELLES NE SONT PAS SUIVIES CORRECTEMENT, POURRAIENT CAUSER UNE BLESSURE.



“CAUTION”- This caution symbol identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of equipment.



« PRÉCAUTION » : Ce symbole de précaution identifie des instructions ou procédures spéciales qui, si elles ne sont pas strictement suivies, pourraient causer un dommage ou la destruction de l'équipement.

“NOTE”- Note indicates points of particular or additional information.

« REMARQUE » : Remarque indique des points d'intérêt particulier ou des renseignements additionnels.

1.3 Should your product not perform properly, or if you have any questions concerning the use and care of any Haag-Streit product, contact the Haag-Streit Distributor, where you purchased this product or contact the Technical Service Department, Inc., 3535 Kings Mills Road, Mason, Ohio 45040-2303, or call (800) 787-5426.

NOTE: Always have the model number and serial number available before contacting Haag-Streit or your authorized Haag-Streit Distributor.

REMARQUE : Ayez toujours le numéro de modèle et le numéro de série à portée de la main avant de contacter Haag-Streit ou votre distributeur Haag-Streit autorisé.

“CLASSIFIED BY CANADIAN STANDARDS ASSOCIATION® WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 60601-1.”

According to Clause 5 in IEC 60601-1, sec 6.8.1, this unit is classified by the following:

- The type of protection against electric shock: EQUIPMENT energized from an external electrical power source: CLASS I EQUIPMENT
- The degree of protection against electric shock: TYPE B EQUIPMENT
- The degree of protection against harmful ingress of water: ORDINARY DEGREE
- The degree of safety of application in the presence of a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE: EQUIPMENT not suitable for use in the presence of a FLAMMABLE ANAESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE
- The mode of operation:
 - Chair - Continuous Operation
 - Motor - 10% Duty Cycle
 - Normal Use - 6240 duty cycle/year: 3 patients per hour, 8 hours per day, 5 days a week, 52 week calendar year.



WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.



AVERTISSEMENT : POUR ÉVITER UN INCENDIE OU UN RISQUE DE CHOC ÉLECTRIQUE, N'EXPOSEZ PAS CET ÉQUIPEMENT À LA PLUIE OU À L'HUMIDITÉ.

TECHNICAL SPECIFICATIONS

Rating for 120V Chair

This equipment is rated Class I, Type B		
Equipment	Model	
Chair	522V	
Volts	Hertz	Amps
120V	50/60	9.0
Class I	Type B	



Intertek
4001610
Conforms to AAMI STD
ES60601-1
Certified to CSA STD C22.2
No. 60601-1

IMPORTANT USER WARNINGS



WARNING: EXPLOSION HAZARD. THIS EQUIPMENT MUST NOT BE USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.



AVERTISSEMENT : RISQUE D'EXPLOSION. CET ÉQUIPEMENT NE DOIT PAS ÊTRE UTILISÉ EN PRÉSENCE D'ANESTHÉSQUES INFLAMMABLES.

POTENTIAL ELECTROMAGNETIC or OTHER INTERFERENCE

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.



WARNING - STORAGE OF THIS EQUIPMENT BELOW 40°F (4.4°C) WILL CAUSE THE HYDRAULIC OIL TO BECOME THICK. THIS MAY CAUSE UNUSUAL NOISES WHEN THE BASE MOTOR IS OPERATED. IT IS RECOMMENDED THAT THE EQUIPMENT STAY AT A TEMPERATURE OF 60°F (15.6°C) OR ABOVE FOR AT LEAST 8 HOURS BEFORE OPERATING.



AVERTISSEMENT : L'ENTREPOSAGE DE CET ÉQUIPEMENT À MOINS DE 4,4°C (40°F) FERA EN SORTE QUE L'HUILE HYDRAULIQUE DEVIENDRA ÉPAISSE. CECI POURRAIT CAUSER DES BRUITS INHABITUELS LORSQUE LE MOTEUR DE LA BASE FONCTIONNE. ON RECOMMANDE QUE L'ÉQUIPEMENT DEMEURE À UNE TEMPÉRATURE DE 15,6°C (60°F) OU PLUS DURANT AU MOINS 8 HEURES AVANT DE L'UTILISER.

2. INSTALLATION

2.1. Unpacking

2.1.1. Chair

2.1.1.1. Cut the shipping bands, open the top of the shipping carton, and remove all packing material and boxes that can be easily reached. Remove (4) nuts and remove both base clamping boards.

2.1.1.2. It is recommended that the skid be positioned as close as possible to the desired Chair location.

2.1.1.3. Remove at least two small shipping blocks stapled to the top of the skid. The Chair can now be slid and/or tipped from the skid onto the floor.

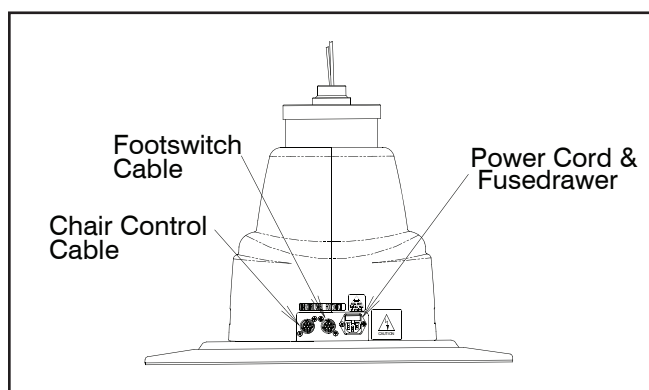
2.1.1.4. Do not lift the Chair by the upper structure. However, the Chair may be tipped or slid into position by pushing or pulling on the upper structure.

2.1.1.5. With the Chair in position, remove all remaining paper pads, plastic, tape, strings, etc.

2.2. Assembly

2.2.1. Power Receptacle

2.2.1.1. Locate the Footswitch assembly, Chair Control Cable, and the Power Cord Assembly. Refer to figure 1 for receptacle location and attach all cables.



**FIGURE 1
BASE**

2.2.1.2. To disconnect power to Chair unplug Power Cord from Instrument Stand or from wall receptacle.

NOTE: If this Chair is purchased in conjunction with a Ophthalmic Stand OSC 600, the Chair Control Cable supplied will provide proper operation. Refer to the Instrument Stand Manual for connection to the Stand.

REMARQUE : Si cette chaise est achetée avec un support à instruments OSC 600, le câble de commande de la chaise fourni permettra un fonctionnement adéquat. Se référer au manuel du support d'instrument pour savoir comment faire la connexion au support.

3. OPERATION



CAUTION- Caution should be taken to ensure there are no obstructions (instruments, trays, tables) impeding movement of the Chair



PRÉCAUTION : On devrait faire attention pour s'assurer qu'il n'y a pas d'obstructions (instruments, plateaux, tables) empêchant le mouvement de la chaise.

3.1. Chair Lift

3.1.1. Raising & Lowering the Chair Lift from the Footswitch

- For operation from the Footswitch (Figure 2), depress the right side of the pedal to raise the Chair lift.
- Depress the left side of the pedal to lower the Chair lift.

NOTE: The RAISE and LOWER BASE switches on the Footswitch are MOMENTARY. By design, the motion of the Chair will STOP when either of the switches are released. If you want the motion of the Chair to CONTINUE you will have to re-engage the Footswitch

REMARQUE : Les interrupteurs RAISE (LEVER) et LOWER (BAISSER) la base sur l'interrupteur au pied sont programmables. Selon la conception initiale, le mouvement de la chaise S'ARRÊTE lorsque l'un ou l'autre de ces interrupteurs est relâché. Si vous désirez que le mouvement de la chaise CONTINUE, après que l'un ou l'autre de ces interrupteurs est relâché, consultez la section 4 pour connaître les instructions de programmation.

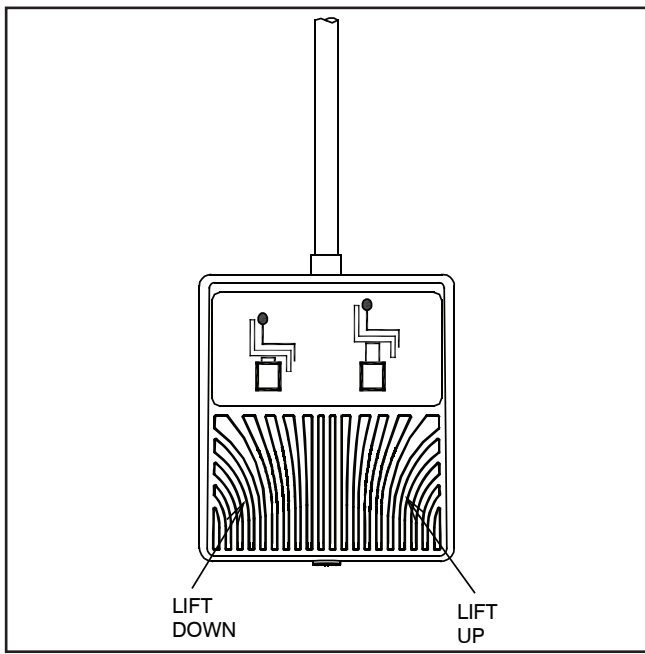


FIGURE 2
FOOTSWITCH OPERATION

3.2. Armrest Movement

3.2.1. The Chair Armrests may be raised to provide better access to the patient or to permit entrance to or exit from the Chair.

3.2.2. The movements of both Armrest are identical and completely independent of each other.

3.2.3. To raise the Armrest simply lift Armrest to the stop parallel to Chair back.

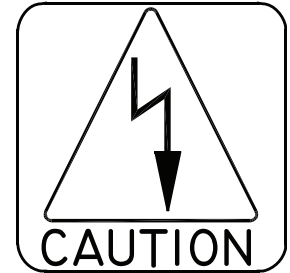
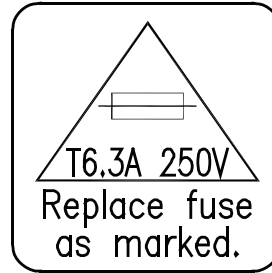


CAUTION-This exam Chair is designed for use with a specific maximum patient weight as a static (non-moving) load. Sudden weight shifts or impact loads can exceed the safe static load rating of this Chair, and may result in insufficient stability.



PRÉCAUTION : Cette chaise d'examen est conçue pour utilisation avec un poids de patient maximum spécifique comme charge statique (sans mouvement). Les déplacements de poids soudains ou les charges dynamiques peuvent excéder la norme de charge statique sécuritaire de la chaise, ce qui pourrait causer une stabilité insuffisante.

4.0 LOCATING AND REPLACING FUSES



WARNING: DISCONNECT EQUIPMENT FROM MAIN INPUT POWER BEFORE PROCEEDING WITH ELECTRICAL INSPECTIONS OR MAINTENANCE.



AVERTISSEMENT : DÉCONNECTEZ L'ÉQUIPEMENT DE L'ALIMENTATION ÉLECTRIQUE PRINCIPALE AVANT DE PROCÉDER À DES INSPECTIONS ÉLECTRIQUES OU À DE L'ENTRETIEN.



CAUTION - Replace fuse(s) as marked. All fuses must be replaced with a fuse of the same size and rating. Refer to the Wire Diagrams at the end of this Manual.



PRÉCAUTION : Remplacez le(s) fusible(s) comme indiqué. Tous les fusibles doivent être remplacés par un fusible de la même dimension et de la même valeur. Se référer aux schémas de câblage à la fin de ce manuel.

The Chair contains two fuses located inside the AC Input Module in the Base Assembly.

4.1. Fuse Replacement (AC Input Module)

4.1.1 Unplug the power cord from the AC power Input Module. Referring to Figure 3, locate tab. With a tool similar to a small common screwdriver placed under tab, pry Fuse Drawer out. Remove the Fuse Drawer by pulling it out with your fingers.

4.1.2 To remove fuses from Fuse Drawer, tilt fuses in direction of arrows as shown in Figure 3. Examine the fuses, replace as necessary.

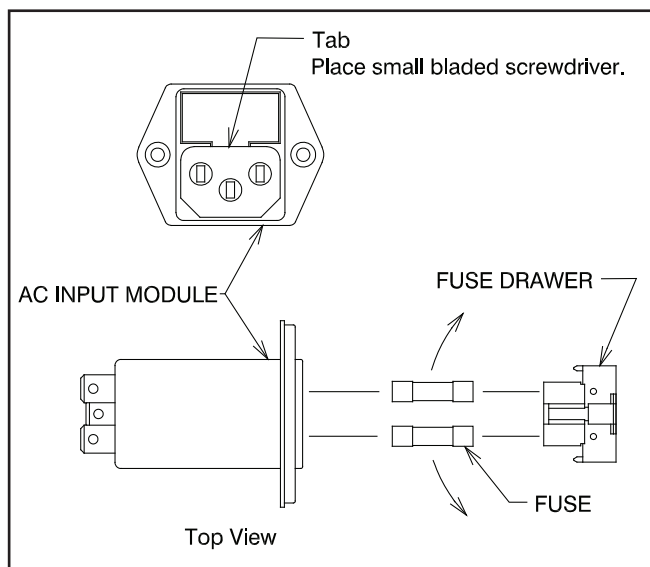


FIGURE 3
AC INPUT MODULE

TROUBLESHOOTING GUIDE

PROBLEM	PROBLEM CAUSE	SOLUTION
CHAIR WILL NOT OPERATE.	1) POWER CORD NOT PLUGGED IN. 2) NO AC POWER AT WALL RECEPTACLE. 3) BLOWN LINE FUSE.	1) CHECK ALL WIRING CONNECTIONS. 2) RESTORE OUTLET POWER. 3) REPLACE FUSE.
OUTLET POWER OK	1) BLOWN LINE FUSE. 2) LOOSE WIRING IN BASE. 3) OTHER.	1) REPLACE FUSE. 2) CHECK ALL WIRING CONNECTIONS. 3) CONTACT FACTORY
FOOTSWITCH FUNCTIONS NOT OPERATING	1) FOOTSWITCH CORD NOT CONNECTED.	1) CHECK ALL INTERNAL AND EXTERNAL FOOTSWITCH WIRING
CHAIR BASE WILL NOT STAY UP	1) SOLENOID VALVE NOT CLOSED. (DIRT IN VALVE.) 2) CONSTANT POWER APPLIED TO SOLENOID. 3) OTHER	1) REPAIR OR REPLACE SOLENOID VALVE. 2) CHECK FOR SWITCHES STUCK "CLOSED" . 3) CONTACT FACTORY.
CHAIR BASE WILL NOT LOWER.	1) NO POWER TO SOLENOID ASS'Y. 2) SOLENOID COIL BURNED-OUT 3) OTHER	1) CHECK FOR VOLTAGE. 2) REPLACE SOLENOID COIL. 3) CONTACT FACTORY.
CHAIR BASE WILL NOT RAISE. PUMP MOTOR DOES NOT RUN.	1) NO POWER TO MOTOR PUMP ASS'Y 2) PUMP MOTOR BURNED-OUT. 3) OTHER	1) CHECK FOR VOLTAGE. 2) REPLACE MOTOR-PUMP ASS'Y. 3) CONTACT FACTORY.
CHAIR BASE WILL NOT RAISE. PUMP MOTOR RUNS.	1) SOLENOID VALVE NOT CLOSED. (DIRT IN VALVE.) 2) CONSTANT POWER APPLIED TO SOLENOID. 3) OTHER.	1) REPAIR OR REPLACE SOLENOID VALVE. 2) CHECK FOR SWITCHES STUCK "CLOSED". 3) CONTACT FACTORY.
BASE "STUTTERS" DURING ASCENT.	1) HYDRAULIC FLUID LEVEL IS LOW.	1) CONTACT DEALER OR FACTORY FOR INFORMATION ON ADDING OIL.
CHAIR BASE WILL NOT RAISE OR LOWER FROM FLOOR UNIT.	1) CHAIR CONTROL CABLE NOT PLUGGED IN. 2) BLOWN FUSE IN CHAIR BASE.	1) CHECK CABLE CONNECTIONS AT STAND CHAIR 2) REPLACE FUSE.
CHAIR TOP "WOBBLES" ON CHAIR BASE	1) LOCK NUT IS LOOSE. (UNDER SEAT BOARD.)	1) TIGHTEN LOCK NUT.

CLEANING AND MAINTENANCE

Cleaning the Upholstery

When cleaning upholstery, it is suggested that you use all recommended commercial cleaning agents in an inconspicuous spot to check for potential damage to the upholstery material before applying to the entire area to be cleaned.

Day to Day soil:

Remove ordinary dirt and smudges with a mild soap and warm water solution. Dry with a soft, lint-free cloth or towel. For more difficult stains, use of a stronger detergent is recommended; however, follow the detergent manufacturer's instructions closely.

Disinfecting Material:

In order to disinfect, use a 1:9 solution of bleach and water (1 part bleach to 9 parts water). Wipe surface with damp cloth then rinse with water immediately, using a damp cloth.

Special cleaning problems:

The following methods are recommended to clean stains on PreFixx-protected vinyl upholstery. Most stains will be removed when these cleaning agents are used in the following order.

Type 1 Cleaners: Nonabrasive household cleaners to be used with water and a soft cloth.

- Formula 409~ All-Purpose Spray Cleaner
- Fantastik® Spray Cleaner
- Other similar household cleaners and bleaches

Type 2 Cleaners: Solvent-type cleaner to be liberally applied with a soft cloth. Dry area with another cloth, rinse with clean water and dry.

- Rubbing alcohol (isopropyl alcohol)
- Lighter fluid (naphtha)

Type 3 Cleaners: Strong, active solvent cleaners such as nail polish remover (acetone/water) to be applied with a soft cloth. Stain should be removed with less than six (6) rubs; if stain persists after six rubs, contact manufacturer. Dry area with another cloth, rinse with clean water and dry.



CAUTION- These solvents are highly flammable. Exercise proper care in cleaning and notify personnel in area of danger. Wear rubber gloves during all cleaning activity. Use caution in cleaning around buttons, stitching and wooden or other decorative trim, since these solvents could seriously damage such areas.



PRÉCAUTION: Ces solvants sont extrêmement inflammables. Faites très attention lors du nettoyage et avisez le personnel dans la zone de tout danger. Portez des gants de caoutchouc durant toute activité de nettoyage. Faites attention en nettoyant autour des boutons, des coutures et autres finitions de bois ou décoratives, puisque ces solvants pourraient endommager sérieusement ces endroits.

Cleaning Painted Surfaces

The painted metal surfaces are covered in durable, powder-coated paint which is resistant to scratching and scuffing. It may be cleaned with a clean cloth dampened with mild, soapy water or equivalent household product that uses spray application.

Recommended Infection Control Products

The disinfectant/cleaner products that we have tested and recommend for our upholstery, painted items and plastic covers are as follows.

- Cavicide® Hospital Disinfectant
- Precise® Hospital Foam Cleaner Disinfectant



CAUTION - Follow manufacturer's directions for concentration and application of disinfecting cleaner. Avoid prolonged application of any disinfectant/cleaner products, because they may cause staining or discoloration of material.



PRÉCAUTION: Suivez les instructions du fabricant pour la concentration et l'application de nettoyeurs désinfectants. Évitez une application prolongée de tout produit désinfectant/nettoyant, parce que ceux-ci pourraient causer des taches ou une décoloration du matériel.



WARNING: REFER TO LOCAL OR HEALTHCARE PROFESSION GUIDELINES FOR SELECTING EFFECTIVE INFECTION CONTROL PRODUCTS.



AVERTISSEMENT : SE RÉFÉRER AUX DIRECTIVES LOCALES OU DES PROFESSIONS DE LA SANTÉ POUR SÉLECTIONNER DES PRODUITS DE CONTRÔLE D'INFECTION EFFICACES.



WARNING: TO AVOID BIOLOGICAL HAZARDS WHEN EQUIPMENT HAS REACHED THE END OF ITS USEFUL LIFE, DISPOSE OF EQUIPMENT PER LOCAL REGULATIONS OR HEALTHCARE PROFESSION GUIDELINES.



AVERTISSEMENT : POUR ÉVITER LES RISQUES BIOLOGIQUES LORSQUE L'ÉQUIPEMENT A ATTEINT LA FIN DE SA VIE UTILE, DISEPOSEZ DE L'ÉQUIPEMENT SELON LES RÉGLEMENTATIONS LOCALES OU LES DIRECTIVES DES PROFESSIONS DE LA SANTÉ.



WARNING: TO ENSURE A LONG LIFE, THE DEVICE MUST BE CLEANED AS DESCRIBED. IT IS ALSO RECOMMENDED THAT THE DEVICE BE INSPECTED ANNUALLY BY A LICENSED SERVICE TECHNICIAN.



AVERTISSEMENT : POUR ASSURER UNE LONGUE DURÉE DE VIE, L'APPAREIL DOIT ÊTRE NETTOYÉ COMME DÉCRIT. IL EST ÉGALEMENT RECOMMANDÉ QUE L'APPAREIL SOIT INSPECTÉ ANNUELLEMENT PAR UN TECHNICIEN DE SERVICE AGRÉÉ.

LIMITED WARRANTY

The Ophthalmic Chair OSC 600 product must be used only for the purposes and in the manner described in the literature distributed with the product. The products are warranted against defective materials and workmanship for a period of one (1) year from date of installation. Products or parts thereof will be repaired or replaced as required at Haag-Streit USA, Inc. Such repair or replacement shall be the sole remedy under this warranty. This warranty extends only to the original purchaser from an authorized Haag-Streit dealer and is subject to the following conditions:

1. The warranty card must be completed and returned to Haag-Streit USA, Inc. within two (2) weeks from the date of installation.
2. Installation and servicing of the products must be performed by trained Haag-Streit USA, Inc equipment dealer service personnel in accordance with the appropriate instructions manual for the products. Warranty will be voided if installation is performed by a non-authorized individual
3. The products have not sustained breakage or other types of damage due to accident or misuse.
4. This warranty will not apply to Ophthalmic Chair OSC 600 products which have had the serial number removed, altered or effaced.

EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, HAAG-STREIT DOES NOT GRANT ANY WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

Haag-Streit USA, Inc neither assumes nor authorizes any person to assume for it, any other liability in connection with the sale and use of its products.

REMEDIES ARE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF PARTS. HAAG-STREIT USA, INC. EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF THE EQUIPMENT.

Claims covered by this warranty will be honored when presented within one (1) month from discovery of a defect.

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