

# INSTALLATION AND OPERATING INSTRUCTIONS

OWNERS MANUAL

## MODEL 7000 LOW VOLTAGE CONTROL CHAIR



## **SERIAL NUMBER**

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



QUALITY MANAGEMENT  
SYSTEM  
REGISTERED TO  
ISO 9001:2000  
ISO 13485:2003





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## IMPORTANT INFORMATION

### SAFETY SYMBOLS

	<b>“DANGER”, “WARNING”, or “CAUTION”</b> 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.
	<b>“NOTE”</b> Amplifies a procedure, practice, or condition.



Type B, Applied Part



Dangerous Voltage / Shock Hazard



Fuse Rating Specification



Protective Earth Ground



Alternating Current-AC



Safe Working Load



“Attention, Consult Accompanying Documents”

### 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%

## 1. INTRODUCTION

1.1. This manual contains information applicable only to the Reliance® Model 7000 Chair.

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 DE DANGER IDENTIFIE LES INSTRUCTIONS SPÉCIALES OU LES PROCÉDURES QUI, SINON CORRECTEMENT SUIVI, POURRAIENT AVOIR COMME CONSÉQUENCE LA PERTE DE VIE OU DE BLESSURES.**



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



**“AVERTISSANT”-LE SYMBOLE D’AVERTISSEMENT IDENTIFIE LES INSTRUCTIONS SPÉCIALES OU LES PROCÉDURES QUI, SINON CORRECTEMENT SUIVI, POURRAIENT AVOIR COMME CONSÉQUENCE DES BLESSURES.**



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



**“ATTENTION” - ce symbole d’attention identifie les instructions spéciales ou les procédures aux lesquelles, sinon strictement observés, pourrait avoir comme conséquence les dégâts ou la destruction du matériel.**



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



**“NOTE” -** la note indique des remarques d’information particulière ou supplémentaire.

1.3 Should your product not perform properly, or if you have any questions concerning the use and care of any Reliance® product, contact the Reliance® Distributor, where you purchased this product or contact the Technical Service Department, Reliance® Medical Products, Inc., 3535 Kings Mills Road, Mason, Ohio 45040-2303, or call (800) 735-0358.



**NOTE:** Always have the model number and serial number available before contacting Reliance® or your authorized Reliance® Distributor.



**NOTE:** Ayez toujours le numéro et le numéro de série de type disponibles avant Reliance® entrant en contact ou votre distributeur autorisé de Reliance®.

**“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: CONTINUOUS OPERATION



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




**ATTENTION: POUR PRÉVENIR LE RISQUE D'INCENDIE OU DE CHOC, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.**

## TECHNICAL SPECIFICATIONS

### Rating for 120V Low Voltage Chair

This equipment is rated Class I, Type B


Equipment		Model
Low Voltage Chair		7000
Volts	Hertz	Amps
120V	50/60	5.5
Class I	Type B	




### Rating for 230V Low Voltage Chair

This equipment is rated Class I, Type B

Equipment		Model
Low Voltage Chair		7000
Volts	Hertz	Amps
230V	50	3.0
Class I	Type B	




U.S. Patent No.

3,661,421  
3,792,905  
5,467,002

## IMPORTANT USER WARNINGS



**WARNING- EXPLOSION: THIS CHAIR MUST NOT BE USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.**



**“AVERTISSANT” - DÉCOMPOSITION : CETTE PRÉSIDENCE NE DOIT PAS ÊTRE UTILISÉE EN PRÉSENCE DES 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.**



**AVERTISSANT - LA MEMOIRE DE CE MATÉRIEL CI-DESSOUS 40°F (4.4°C) FERA ÊTRE LE PÉTROLE HYDRAULIQUE PROFONDÉMENT. CECI PEUT CAUSER DES BRUITS EXCEPTIONNELS QUAND LE MOTEUR DE BASE EST ACTIONNÉ. ON LUI RECOMMANDE QUE LE SÉJOUR DE MATÉRIEL À UNE TEMPÉRATURE DE 60°F (15.6°C) OU CI-DESSUS PENDANT AU MOINS 8 HEURES AVANT LE FONCTIONNEMENT.**

## 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 reach. 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, ect.

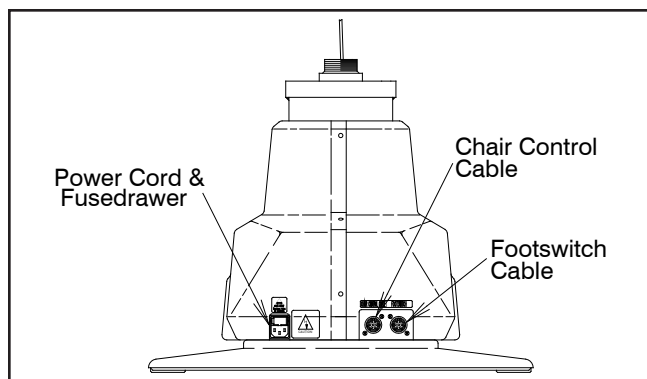
### 2.2. Assembly

#### 2.2.1. Headrest

2.2.1.1. Remove the headrest from its carton, and mount it into position onto the chair back. Using the proper hex key wrench, tighten the cap screw to clamp the headrest securely into its mounting bracket.

#### 2.2.2. Power Receptacle

2.2.2.1. 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**

2.2.2.2. To disconnect power to Chair unplug power cord from Instrument Stand or from wall receptacle.



**NOTE:** Outlet wires are hot.



**NOTE :** Les fils de sortie sont chaud



**NOTE:** If this chair is purchased in conjunction with a Reliance® instrument stand, the chair control cable supplied will provide proper operation. Refer to the instrument stand manual for connection to the stand.



**NOTE:** Si cette présidence est achetée conjointement avec un gabarit d'instrument de Reliance®, le câble de commande de présidence fourni fournira le fonctionnement approprié. Référez le manuel de gabarit d'instrument pour la connexion au gabarit.


#### 2.2.3. Setting Rotation Stop

2.2.3.1. When used in an ophthalmic or optometric environment, the rotation of the chair top is manufactured for a right-handed examination position (delivery system positioned on the patient's left). If you wish to position the floor unit for a left handed examination position, the rotation stop in the chair should be altered.

2.2.3.2. Separate the skirt hanging from the upholstered chair back connected to the upholstered seat by pulling upward on each end of the skirt until the Velcro fasteners are separated. Remove the screw located under the chair top and the front edge of the center of the chair. Lift upward on the seat and remove.

2.2.3.3. Standing in front of the chair locate the hole in the seat board positioned to the lower right of the center circle. Using a 1/2" socket, remove the bolt located in the circle, and install in the threaded hole located in the lower left of the center circle.

### 3. OPERATION

 **CAUTION-** Caution should be taken to observe that there are no obstructions (instruments, trays, or tables) to impede the movement of the chair.

 **ATTENTION-** L'attention devrait être prise pour constater qu'il n'y a aucune obstruction (instruments, magasins, ou tables) pour entraver le mouvement de la présidence.

Each time main power is applied to the chair, the circuit board inside the chair will respond with a one second beep. The beep indicates the electronics is functioning properly.


#### 3.1. Stop Switch

3.1.1. Depressing the STOP switch on either side of the chair back will STOP ALL movement of the chair. The STOP switch is shaped like a stop sign, and may be either RED or ORANGE in color. It is located above the text "STOP". (Refer to Figure 2). The STOP switch is also used to program the chair. See Section 4 (page 12) for programming instructions.

#### 3.2. Chair Lift

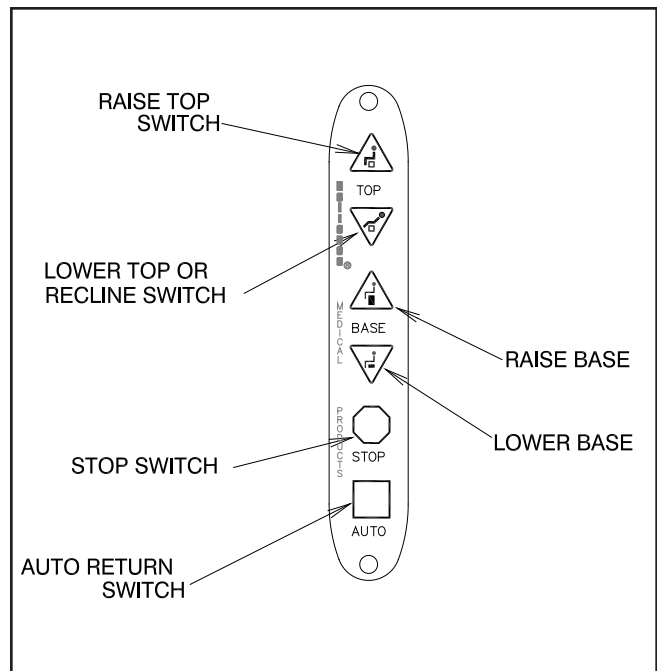
##### 3.2.1. Raising & Lowering the Chair Lift with Membrane Switches

- The chair lift may be raised or lowered by Membrane Switches on either side of the chair back (Figure 2).
- To raise the chair lift from these switches, depress the triangular-shaped UP arrow located ABOVE the text "BASE". This is called the RAISE BASE switch.
- To lower the chair lift, depress the triangular-shaped DOWN arrow located BELOW the text "BASE". This is called the LOWER BASE switch.

 **NOTE:** The RAISE and LOWER BASE switches on the chair back are programmable. By design, the motion of the chair will STOP when either of these switches is released. If you want the motion of the chair to continue after either of these switches is released, then see Section 4 (page 12) for programming instructions.



**NOTE:** L'AUGMENTER et les contacts DE BASE INFÉRIEURS sur la présidence en arrière sont programmables. Par conception, le mouvement de la présidence S'ARRÊTERA quand l'un ou l'autre de ces contacts est relâché. Si vous voulez que le mouvement de la présidence continue après que l'un ou l'autre de ces contacts soit relâché, voir alors le chapitre 4 (page 12) pour des instructions de programmation.



**FIGURE 2  
MEMBRANE SWITCH**

##### 3.2.2. Raising & Lowering the Chair Lift from the Footswitch

- For operation from the footswitch (Figure 3), depress the right side of the pedal to raise the chair lift.
- Depress the left side of the right-hand pedal to lower the chair lift.

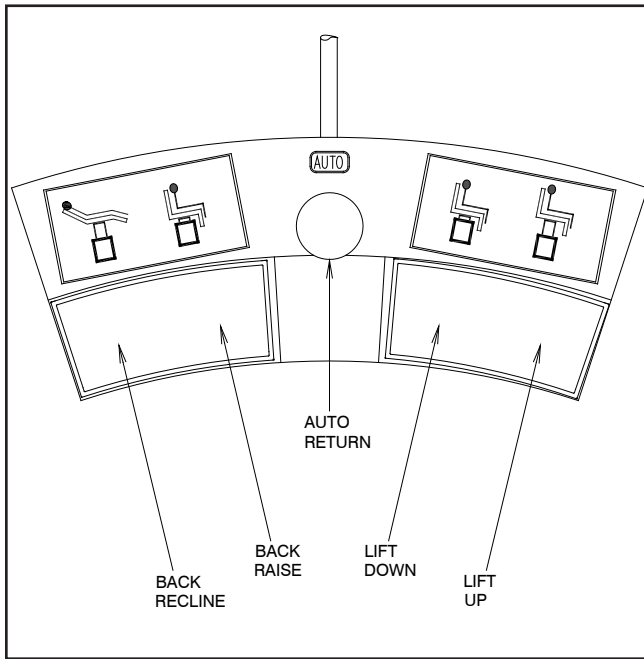


**NOTE:** The RAISE and LOWER BASE switches on the footswitch are also programmable. The motion of the chair will STOP when either of these switches is released. If you want the motion of the chair to continue after either of these switches is released, then see Section 4 (page 12) for programming instructions.





**NOTE:** L'AUGMENTER et les passages DE BASE INFÉRIEURS sur l'interrupteur à pied sont également programmables. Le mouvement de la présidence S'ARRÊTERA quand l'un ou l'autre de ces contacts est relâché. Si vous voulez que le mouvement de la présidence continue après que l'un ou l'autre de ces contacts soit relâché, voir alors le chapitre 4 (page 12) pour des instructions de programmation.



**FIGURE 3**  
**Footswitch Operation**

### 3.3. Chair Top

3.3.1. An electric motor supplies power for the movement of the chair top.

#### 3.3.2. Raising & Reclining the Chair Top with Membrane Switches.

- The chair top may be raised or reclined by Membrane Switches on either side of the chair back (Figure 2).
- To lower, depress the triangle-shaped DOWN arrow located BELOW the "TOP". This is called the LOWER TOP or RECLINE switch.
- To raise the chair top from these switches, depress the triangle-shaped UP arrow located ABOVE the next "TOP". This called the RAISE TOP switch.



**NOTE:** The RAISE and LOWER/RECLINE switches on the chair back are also programmable. By design, the motion of the chair will CONTINUE when either of these switches is released. If you want the motion of the chair to STOP after either of these switches is released, then see Section 4 (page 11) for programming instructions.



**NOTE:** L'AUGMENTER et ABAISSEMENT/REPOSEMENT des contacts sur la présidence en arrière sont également programmable. Par conception, le mouvement de la présidence CONTINUERA quand l'un ou l'autre de ces contacts est relâché. Si vous voulez que le mouvement de la présidence S'ARRÊTE après que l'une ou l'autre d'identification de ces contacts relâchée, voir alors le chapitre 4 (la page 11) pour des instructions de programmation.



**CAUTION - ANY chair movement that CONTINUES after the switch is released may be stopped by depressing the STOP switch or by depressing the same switch a second time.**



**ATTENTION - N'IMPORTE QUEL mouvement de présidence qui CONTINUE après que le contact soit relâché peut être arrêté en diminuant le contact "ARRÊT" ou en diminuant le même contact une deuxième fois.**

#### 3.3.3. Raising & Lowering the Chair Top From the Footswitch.



- For operation from the footswitch (Figure 3), depress the right side of the left-hand pedal to raise the chair top.
- Depress the left side of the left-hand pedal to lower/recline the chair top.



**NOTE:** the RAISE and LOWER/RECLINE switches on the footswitch are also programmable. The motion of the chair will STOP when either of these switches is released. If you want the motion of the chair to CONTINUE after either of these switches is released, then see Section 4 (page 12) for programming instructions.



**NOTE :** L'AUGMENTER et ABAISSENT/REPOSENT des passages sur l'interrupteur à pied sont également programmable. Le mouvement de la présidence S'ARRÊTERA quand l'un ou l'autre de ces contacts est relâché. Si vous voulez que le mouvement de la présidence CONTINUE après que l'un ou l'autre de ces contacts soit relâché, voir alors le chapitre 4 (page 12) pour des instructions de programmation.

### 3.4. Automatic Return

3.4.1. This feature is employed as a simple way for the operator to lower the chair lift and raise the chair back after completion of an examination or treatment. The automatic return system is activated by depressing the square switch located ABOVE the text "AUTO" on either side of the chair back. The chair lift, if raised, will then lower, and the chair back, if reclined, will rise to the upright position. These movements will CONTINUE after the switch is released until the chair lift is fully lowered and the chair back is fully upright. These movements may also be stopped by depressing the STOP switch or by depressing the AUTO switch a second time. The AUTO switch is square and is located in the same place on both Membrane Switches.

3.4.2. These instructions and operations also apply to any AUTO switch that is installed in a footswitch, console, or base cap.

### 3.5. Memory Feature

3.5.1. This system allows the operator to select a preferred examining position. The chair will automatically stop reclining when that point is reached.

#### 3.5.2. Programming the Memory Feature

Step 1) Press the AUTO Switch. The chair will lower the chair base to its lowest position. It will also raise the chair back to its most upright position. Wait 20 seconds.

Step 2) Press and hold the RAISE TOP Switch. The chair back will NOT move since it is already upright. While maintaining pressure on the RAISE TOP switch, press the RECLINE switch. The chair will enter a programming mode and begin to recline and the switches will blink rapidly. At this point release the switches.

Step 3) Press the STOP Switch when the chair top arrives at the desired recline position. This completes the programming setup.

Step 4) To use the memory feature once it has been programmed. Press the AUTO Switch. The LED's will blink and the chair will return to its full upright position. The LED's will stop blinking. Then press the RECLINE Switch which is programmed for memory mode. (Specify which RECLINE Switch will utilize this feature.) The switches will blink and the chair will recline on its own and stop at the programmed point.



**NOTE:** The left chair back switch and the right chair back switch work independently of each other. If the programming is done from the left side, the right side will recline the chair all the way back with one touch. In order for memory functions to take place step 4 must first be duplicated.



**NOTE:** Le contact gauche d'arrière de présidence et le bon contact d'arrière de présidence fonctionnent indépendamment les uns des autres. Si la programmation est faite du côté gauche, le bon côté reposera la présidence toute voie en arrière avec un contact. Afin la mémoire fonctionne pour avoir lieu nécessité d'étape 4 d'abord soyez reproduit.



**NOTE:** The memory system does not control the raise motion of the chair back.



**NOTE:** Le système de mémoire ne contrôle pas le mouvement d'augmenter de la présidence en arrière.

### 3.6. Revolving/Rotation

3.6.1. The chair upper structure may be revolved 350°, with a built-in stop to prevent continuous rotation. The lock for revolving is controlled by a hand lever with chrome plated knob located below the seat at the center and on either side. Push the lever down to release the lock and lift to apply the lock.

### 3.7. Arm Movement

3.7.1. The chair arms may be raised to provide better access to the patient or to permit entrance to or exit from the chair.

3.7.2. The movements of both arms are identical and completely independent of each other.


3.7.3. To raise an arm, push rearward on the middle joint of the arm support link while raising upward on the arm. A stop limits upward motion of the arm to a point parallel to the plane of the back. Lowering the arm automatically locks it in place against vertical motion in either direction.


### 3.8. Footrest

3.8.1. The footrest may be retracted by lifting near its outer edge. When retracted the footstep stays in place.

### 3.9. Headrest

3.9.1. The No. 18 headrest is the standard headrest for the Model 7000 Chair.

 **WARNING- IF THE NO. 18 HEADREST RECEIVES A IMPACT OR STRIKES AN OBJECT WITH FORCE CONTACT RELIANCE® TECH SERVICE IMMEDIATELY.**

 **AVERTISSANT- SI L'APPUI-TÊTE DU NUMÉRO 18 REÇOIT UN CHOC OU HEURTE UN OBJET AVEC LE SERVICE DE TECHNOLOGIE DU CONTACT RELIANCE® DE FORCE IMMÉDIATEMENT.**

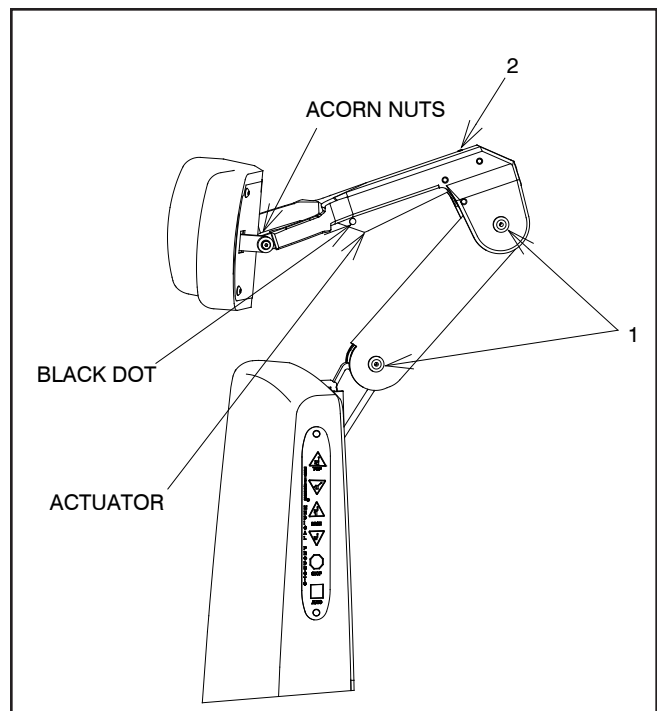
#### 3.9.2. Operation-No. 18, 22 Headrest

3.9.2.1. The No. 18, 22 headrest is designed so it can be operated with just one hand. To unlock, squeeze clear plastic actuator into lock housing. This will allow both pivots of the articulating arm to rotate so the headrest can be moved to a new desired position. Once in the new position, release the actuator. Make sure the actuator expands to its original position fully exposing black dot on handle to insure a positive lock. The headrest pad is free to rotate at all times.

(See Figure 4).

#### 3.9.3. Adjustment-No. 18, 22 Headrest

3.9.3.1. There are three adjustments provided on the No. 18, 22 headrest. The first is the tension on the pad rotation. By tightening the two hex acorn nuts on the pad pivots with a 3/8" open end wrench, the tension will be increased. To adjust the drag on the pivots of the articulating arm, loosen the set screw in the center of the pivot with a 3/32" hexagon key wrench (Figure 4, item 1). Next, tighten the pivot screw on the other side of the pivot, with a 1/8" hexagon key wrench. Now, retighten the set screw to retain the pivot screw at the new adjustment. Either pivot may be adjusted.



**FIGURE 4**  
**No. 18, 22 Headrest**

3.9.3.2. The third adjustment is for proper clearance of the black dot to indicate that the headrest is properly locked. If the dot does not fully clear the lock housing when the headrest is lock securely, turn the set screw located at the top of the lock housing (Figure 4, item 2) counterclockwise until the dot on the actuator is fully exposed.

#### 3.9.4. Operation-No. 10 Headrest

3.9.4.1. The No. 10 headrest has a fixed, rigid upholstered bakboard which supports a sliding, center pillow section. For patient comfort simply move this pillow to a desired position.

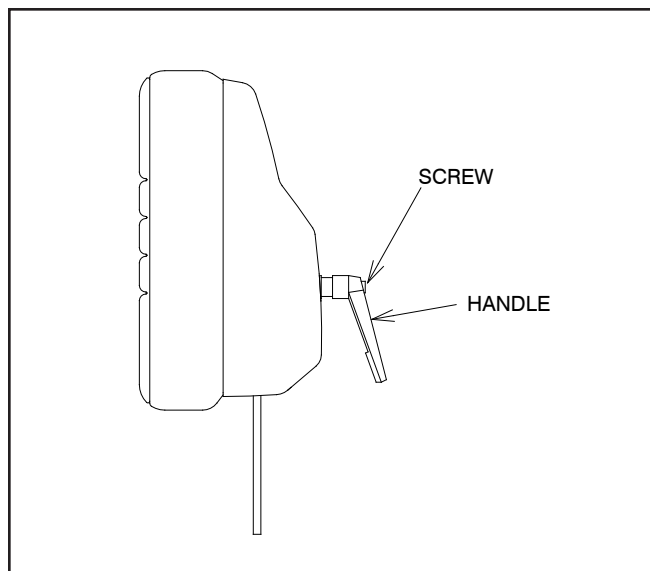
### 3.9.5. Operation-No. 11, 21 Headrest

3.9.5.1. A single handle on the rear of the No. 11, 21 headrests controls the locking mechanism. To unlock, grasp the handle and turn counter-clockwise. Change the tilt of the headrest until it is in the desired position. To lock, turn the handle clock-wise until snug. (See Figure 5, No. 11 Headrest shown)

### 3.9.6. Adjustment-No. 11, 21 Headrest

3.9.6.1. The handle on the outermost knob can be adjusted to any preferred, locked position. Simply push in on the large screw while pulling out on the handle. Rotate as desired, and release. (See Figure 5, No. 11 Headrest shown)

3.9.6.2. The No. 21 headrest pillow assembly will slide to a preferred patient position. Simply slide pillow on the attached headrest strap to the desired position. (Not Shown)



**FIGURE 5**  
**No. 11 Headrest**

## 4. PROGRAMMING THE CHAIR

The items described in Section 4. are built-in features of the chair. Only those users who wish to utilize these features need to be concerned with this Section. The chair will operate as previously designed if these features are not used. The chair can be programmed in the same fashion from either switch located on the chair back.

### 4.1. Safety/Shutdown Feature

The chair has a built-in Safety/Shutdown feature. This feature causes the chair to shutdown or become inoperable. This feature prevents unauthorized use of the chair. (See Figure 2).

#### 4.1.1 To ENTER Safety/Shutdown Mode

4.1.1.1 Depress and HOLD either STOP switch.

4.1.1.2 With the STOP switch depressed, depress the LOWER BASE switch on the same side of the chair back.

4.1.1.3 A two second beep will be heard to indicate the chair will NOT move if any additional switches are depressed.

4.1.1.4 The LED's on the Membrane Switches will blink every three seconds while in Safety/Shutdown Mode.

#### 4.1.2 To EXIT Safety/Shutdown Mode, repeat the above sequence.

4.1.2.1 Depress and HOLD either STOP switch.

4.1.2.2 With the STOP switch depressed, depress the LOWER BASE switch on the same side of the chair back.

4.1.2.3 A two second beep will be heard to indicate the chair is functional, and movement of the chair WILL OCCUR when another switch is depressed.

4.1.2.4 The LED's will come back on when the chair becomes operational.

### 4.2. Individual Programming of the RAISE TOP, RECLINE TOP, RAISE BASE, and LOWER BASE switch located on the Chair Back or Footswitch. (See Figure 2 & 3).

4.2.1 These individual switches may be programmed to function in two ways. If the movement of the chair STOPS when the switch is released, this is called the MOMENTARY MODE of operation. If the movement of the chair continues after the switch is released, this is called the MAINTAINING MODE of operation. The factory designed setting for the RAISE TOP and RECLINE TOP switches located on the chair top is MAINTAINING MODE. The factory designed setting for the RAISE BASE and LOWER BASE switches located on the chair top is MOMENTARY MODE. If changed, the new settings will remain permanent as long as main power remains applied to the chair and will apply to the similar function on the other side.

4.2.2 To change these settings the chair must be placed in Setup Mode. Once in Setup Mode, depressing one of these switches will change its present setting from MOMENTARY to MAINTAINING or from MAINTAINING to MOMENTARY. Depressing a switch repeatedly will cause the setting to toggle between the two modes of operation.

#### 4.2.3 To ENTER Setup Mode and change current settings

4.2.3.1 Depress and HOLD either STOP switch.

4.2.3.2 With the STOP switch depressed, depress the AUTO switch on the same side of the chair back.

4.2.3.3 A one second beep will be heard to indicate you have ENTERED Setup Mode. The LED's will blink on and off while in Setup Mode.

4.2.3.4 Depress any of the following switches (including footswitch), one at a time, to toggle its current setting - RAISE TOP, RECLINE TOP, RAISE BASE, OR LOWER BASE. When the switch is depressed, a SHORT beep (0.25 seconds) will indicate the switch is now in MOMENTARY MODE of operation. A LONG beep (1.05 seconds) will indicate the switch is now in MAINTAINING MODE of operation.

4.2.3.5 When finished programming the chair, the chair MUST be taken out of Setup Mode.

#### 4.2.4 To EXIT Setup Mode, repeat steps 1 & 2 above.

4.2.4.1 Depress and HOLD either STOP switch.

4.2.4.2 With the STOP switch depressed, depress the AUTO switch on the same side of the chair back.

4.2.4.3 A one second beep will be heard to indicate the chair has EXITED Setup Mode. The LED's will come back on.



**NOTE:** Depressing a switch causes the mode of operation to TOGGLE between MOMENTARY and MAINTAINING operation. If a mistake is made, depress the same switch again to return that switch to its previous mode of operation. If, at any time, the user becomes lost or confused during the programming procedure, the chair can be reset to the factory settings by disconnecting and then reconnecting main power to the chair. Once reset, the programming procedure can be repeated.



**NOTE:** Diminuer un contact cause le mode de fonctionnement au BASCULEUR entre le fonctionnement MOMENTANÉ et METTANT À JOUR. Si une erreur est effectuée, diminuez le même contact de nouveau pour renvoyer ce contact à son mode de fonctionnement précédent. Si, à tout moment, l'utilisateur devient perdu ou confus pendant la procédure de programmation, la présidence peut être remise à l'état initial aux réglages d'usine en débranchant et puis en raccordant le pouvoir principal à la présidence. Remettez à l'état initial une fois, la procédure de programmation peut être répété.

### 4.3. BEEP-ON-SWITCH Feature

4.3.1 The chair can be programmed to beep whenever a switch is depressed. This gives the user additional feedback on the operation of the chair. The factory design is to have NO BEEP occur when a switch is depressed. To change this setting the chair must be in Setup Mode. See Section 4.2.4. on how to ENTER Setup Mode. Once in Setup Mode,

4.3.2 Depress either AUTO switch on the chair back to toggle the BEEP-ON-SWITCH feature between ON and OFF.

4.3.3 A short beep (0.25 seconds) indicates NO BEEP will occur when a switch is depressed. A long beep (1.05 seconds) indicates a BEEP occur when a switch is depressed.

4.3.4 When finished programming the chair, the MUST be taken out of Setup Mode. See Section 4.2.5. on how to EXIT Setup Mode.

## 4.4. Auto Up/Retinal Feature

The Auto Up/Retinal Feature is a convenient feature for Retinal Specialists. When either recline switch is programmed to operate in this mode, depressing that switch will cause the chair lift to rise and the chair top to recline.

### 4.4.1 To ENTER Auto Up/Retinal Mode.

4.4.1.1 Depress and HOLD either STOP switch.

4.4.1.2 With the STOP switch depressed, depress the LOWER TOP switch on the right side of the chair back to program that switch for Retinal Mode.

4.4.1.3 A one second beep will be heard to indicate that switch has ENTERED Auto Up/ Retinal Mode. When depressed, the RECLINE TOP switch on the right-hand side of the chair will now cause the chair lift to rise and the chair top to recline.

4.4.1.4 To program the RECLINE TOP switch on the left-hand side of the chair, use that switch and repeat the same steps as described above.



**NOTE:** This movement will continue after the LOWER TOP switch is released. To stop the chair movement, press the STOP switch, or depress the same LOWER TOP switch a second time.



**NOTE:** Ce mouvement continuera après que le PREMIER contact INFÉRIEUR soit relâché. Pour arrêter le mouvement de présidence, appuyez sur le contact "ARRÊT", ou diminuez le même PREMIER contact INFÉRIEUR une deuxième fois.

### 4.4.2 To EXIT Auto Up/Retinal Mode, repeat the above sequence.

4.4.2.1 Depress and HOLD either STOP switch.

4.4.2.2 With the STOP switch depressed, depress the LOWER TOP switch on the same side of the chair back.

4.4.2.3 A one second beep will be heard to indicate that switch has EXITED Auto Up/Retinal Mode.

## 4.5. Home Feature

4.5.1 The Home Feature allows the user to program the distance the chair lift will travel when starting from the fully lowered position. Activating this Feature causes the chair to move upward for a fixed amount of time. The actual height achieved by the chair will vary slightly from the programmed height, depending on the weight of the patient.

4.5.2 The Home Feature can be initiated by any of the RAISE BASE switches, located on the chair back, footswitch, or instrument stand. Each switch can be independently programmed for a specified height.

### 4.5.3 To PROGRAM the Home Mode Feature.

4.5.3.1 The chair lift must be fully lowered. To make sure the lift is all the way down, DEPRESS the AUTO switch and wait at least fifteen seconds.

4.5.3.2 The RAISE BASE switches that are to be programmed for Home Mode, must be in Momentary Mode.

4.5.3.3 DEPRESS and HOLD either STOP switch located on the chair back.

4.5.3.4 With the stop switch depressed, DEPRESS the RAISE BASE switch to be programmed. The chair lift will begin to rise and the LED's will blink. Release both switches.

4.5.3.5 When the chair rises to the desired height, DEPRESS either STOP switch to program that height into the chair.

4.5.3.6 Repeat steps 1 thru 5 to program any other RAISE BASE switch for Home Mode.

### 4.5.4 To UTILIZE the Home Mode Feature.

4.5.4.1 When the chair is all the way down, depressing a Raise Base Switch that has been programmed for Home Mode will cause the chair to raise to the programmed height.

4.5.4.2 If a RAISE BASE switch is programmed for Home Mode, but the chair lift is not all the way down, the Raise Base switch will function like a momentary switch.

4.5.4.3 If any RAISE BASE switch is programmed for Home Mode, the LED's will blink for 15 seconds after the AUTO DOWN switch is depressed. When the LED's stop blinking, the chair lift is all the way down.

### 4.5.5 To EXIT the Home Mode Feature.

4.5.5.1 If the Home Feature is no longer needed for any of the RAISE BASE switches, depress a STOP switch and the desired RAISE BASE switch at any time when the chair lift is not all the way down.



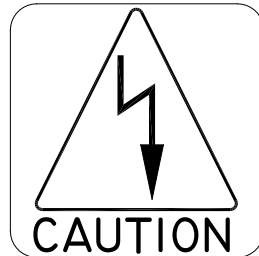
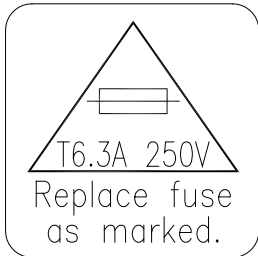


**NOTE:** The Home Feature and Memory can only be operated with the Base down and the Back fully upright, Step 4 (Page 10).



**NOTE:** La caractéristique et la mémoire à la maison peuvent seulement être actionnées avec la base vers le bas et l'arrière entièrement tout droit, étape 4 (page 10).

## 5.0 LOCATING AND REPLACING FUSES



**WARNING-DISCONNECT CHAIR BASE FROM AC POWER INPUT BEFORE PROCEEDING WITH ELECTRICAL INSPECTIONS OR MAINTENANCE.**



**AVERTISSANT-DÉMONTÉZ LA BASE DE PRÉSIDENCE DU COURANT ALTERNATIF ENTRÉ AVANT DE PROCÉDER AUX INSPECTIONS OU À L'ENTRETIEN ÉLECTRIQUES.**



**CAUTION-Replace fuse(s) as marked. All fuses must be replaced with a fuse of the same size and rating. Refer to the wiring diagram on page 36.**

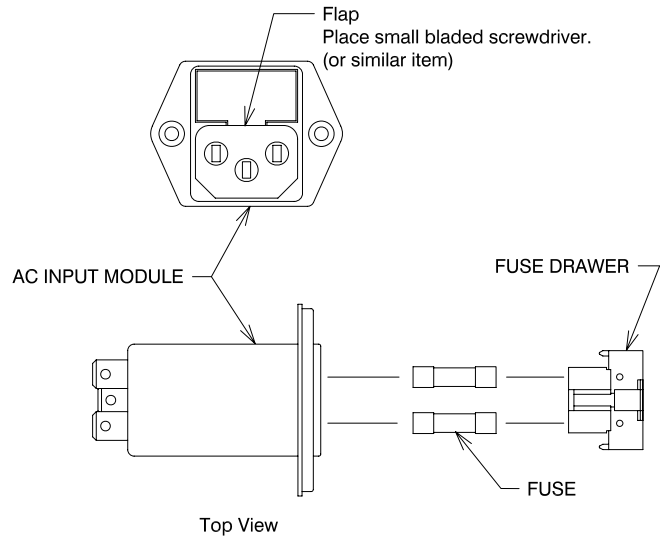


**ATTENTION - changez le détonateur (s) comme marqué. Tous les détonateurs doivent être changés avec un détonateur de la même taille et de la notation. Référez le diagramme de câblage à la page 36.**

The chair contain two fuses located inside the AC Input Module in the Base Assembly.

## 5.1. Fuse Replacement (AC Input Module)

Unplug the power cord from the chair base. With a tool similar to a small common screwdriver, unsnap the locking tab on the bottom of the fuse drawer. Remove and examine the fuses. Replace as necessary. See Figure 6.



**FIGURE 6  
AC INPUT MODULE**

### Method for removing fuse drawer:

1. The fuse drawer is located above the power cord.
2. Remove the power cord.
3. Place a small bladed screwdriver into appropriate slot (shown above) and push the flat spring towards the center of the power module until a click is heard. (Click may not be heard in all cases.) The drawer will come forward slightly.
4. Once the flap has been pushed towards the center, the drawer will extend slightly beyond the power module.
5. Remove the drawer by pulling it out by your fingers.



**CAUTION- Never install the drawer into the Power Module without fuses.**



**L'ATTENTION- ne montent jamais le tiroir sur le module de pouvoir sans fusibles.**

## TROUBLESHOOTING GUIDE

PROBLEM	PROBLEM CAUSE	SOLUTION
CHAIR WILL NOT OPERATE.	<ol style="list-style-type: none"> <li>1) POWER CORD NOT PLUGGED IN.</li> <li>2) NO AC POWER AT WALL RECEPTACLE.</li> <li>3) BLOWN LINE FUSE.</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK ALL WIRING CONNECTIONS.</li> <li>2) RESTORE OUTLET POWER.</li> <li>3) REPLACE FUSE.</li> </ol>
OUTLET POWER OK, BUT NO BEEP IS HEARD WHEN POWER IS APPLIED.	<ol style="list-style-type: none"> <li>1) BLOWN LINE FUSE.</li> <li>2) LOOSE WIRING IN BASE.</li> <li>3) OTHER.</li> </ol>	<ol style="list-style-type: none"> <li>1) REPLACE FUSE.</li> <li>2) CHECK ALL WIRING CONNECTIONS.</li> <li>3) CONTACT FACTORY</li> </ol>
FOOTSWITCH FUNCTIONS NOT OPERATING.	<ol style="list-style-type: none"> <li>1) FOOTSWITCH CORD NOT CONNECTED.</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK ALL INTERNAL AND EXTERNAL FOOTSWITCH WIRING</li> </ol>
BACKSWITCH FUNCTIONS NOT OPERATING.	<ol style="list-style-type: none"> <li>1) DAMAGED OR DISCONNECTED WIRES IN CHAIR BACK, UNDER CHAIR SEAT, OR IN CHAIR BASE</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK ALL WIRING CONNECTIONS.</li> </ol>
CHAIR BASE WILL NOT STAY UP	<ol style="list-style-type: none"> <li>1) SOLENOID VALVE NOT CLOSED. (DIRT IN VALVE.)</li> <li>2) CONSTANT POWER APPLIED TO SOLENOID.</li> <li>3) OTHER</li> </ol>	<ol style="list-style-type: none"> <li>1) REPAIR OR REPLACE SOLENOID VALVE.</li> <li>2) CHECK FOR SWITCHES STUCK "CLOSED" .</li> <li>3) CONTACT FACTORY.</li> </ol>
CHAIR BASE WILL NOT LOWER.	<ol style="list-style-type: none"> <li>1) NO POWER TO MOTOR PUMP ASS'Y.</li> <li>2) SOLENOID COIL BURNED-OUT</li> <li>3) OTHER</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK FOR VOLTAGE.</li> <li>2) REPLACE SOLENOID COIL.</li> <li>3) CONTACT FACTORY.</li> </ol>
CHAIR BASE WILL NOT RAISE. PUMP MOTOR DOES NOT RUN.	<ol style="list-style-type: none"> <li>1) NO POWER TO MOTOR PUMP ASS'Y</li> <li>2) UP-LIMIT SWITCH STUCK "OPEN".</li> <li>3) PUMP MOTOR BURNED-OUT.</li> <li>4) OTHER</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK FOR VOLTAGE.</li> <li>2) RE-ADJUST OR REPLACE SWITCH.</li> <li>3) REPLACE MOTOR-PUMP ASS'Y.</li> <li>4) CONTACT FACTORY.</li> </ol>
CHAIR BASE WILL NOT RAISE. PUMP MOTOR RUNS.	<ol style="list-style-type: none"> <li>1) SOLENOID VALVE NOT CLOSED. (DIRT IN VALVE.)</li> <li>2) CONSTANT POWER APPLIED TO SOLENOID.</li> <li>3) OTHER.</li> </ol>	<ol style="list-style-type: none"> <li>1) REPAIR OR REPLACE SOLENOID VALVE.</li> <li>2) CHECK FOR SWITCHES STUCK "CLOSED".</li> <li>3) CONTACT FACTORY.</li> </ol>
BASE "STUTTERS" DURING ASCENT.	<ol style="list-style-type: none"> <li>1) HYDRAULIC FLUID LEVEL IS LOW.</li> </ol>	<ol style="list-style-type: none"> <li>1) CONTACT DEALER OR FACTORY FOR INFORMATION ON ADDING OIL.</li> </ol>
CHAIR BASE WILL NOT RAISE OR LOWER FROM FLOOR UNIT.	<ol style="list-style-type: none"> <li>1) CHAIR CONTROL CABLE NOT PLUGGED IN.</li> <li>2) BLOWN FUSE IN CHAIR BASE.</li> </ol>	<ol style="list-style-type: none"> <li>1) CHECK CABLE CONNECTIONS AT STAND CHAIR</li> <li>2) REPLACE FUSE.</li> </ol>
CHAIR TOP "WOBBLES" ON CHAIR BASE	<ol style="list-style-type: none"> <li>1) LOCK NUT IS LOOSE. (UNDER SEAT BOARD.)</li> </ol>	<ol style="list-style-type: none"> <li>1) TIGHTEN LOCK NUT.</li> </ol>
CHAIR TOP "BINDS-UP"	<ol style="list-style-type: none"> <li>1) CHAIR TOP MOTOR (NUT-TUBE) IS OUT OF ADJUSTMENT.</li> </ol>	<ol style="list-style-type: none"> <li>1) CONTACT DEALER OR FACTORY FOR ADJUSTMENT PROCEDURE.</li> </ol>
MEMORY SYSTEM INOPERATIVE.	<ol style="list-style-type: none"> <li>1) NOT PROGRAMMED PROPERLY.</li> <li>2) LOOSE CONNECTIONS UNDER CHAIR SEAT.</li> </ol>	<ol style="list-style-type: none"> <li>1) SEE SECTION 3.5.2</li> <li>2) CHECK ALL WIRING CONNECTIONS</li> </ol>



## 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 (naptha)

**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.



**ATTENTION - Ces dissolvants sont hautement inflammables. Prenez le soin approprié dans le nettoyage et informez le personnel dans la zone du danger. Utilisez les gants en caoutchouc pendant toute l'activité de nettoyage. Faites attention en nettoyant autour des boutons, en piquant et panneau en bois ou autre décoratif, puisque ces dissolvants pourraient sérieusement endommager de telles zones.**

### 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 material. Avoid prolonged application of any disinfectant/cleaner products, because they may cause staining of upholstery material.**



**ATTENTION - Suivez les sens du constructeur pour la concentration et l'application de la désinfection produit. Évitez l'application prolongée de tous les produits désinfectants/plus propres, parce qu'elles peuvent causer la souillure du produit de capitonnage.**

**PARTS LIST**  
**RELIANCE® MODEL 7000**  
**EXAMINATION AND TREATMENT CHAIR**



**Note:** When ordering parts, please:

1. Advise dealer or factory of model and serial number of unit. These numbers are on the plate that is located at rear, near bottom, of chair back.
2. Specify color of painted parts. Painted parts have an asterisk(\*) behind the part description.

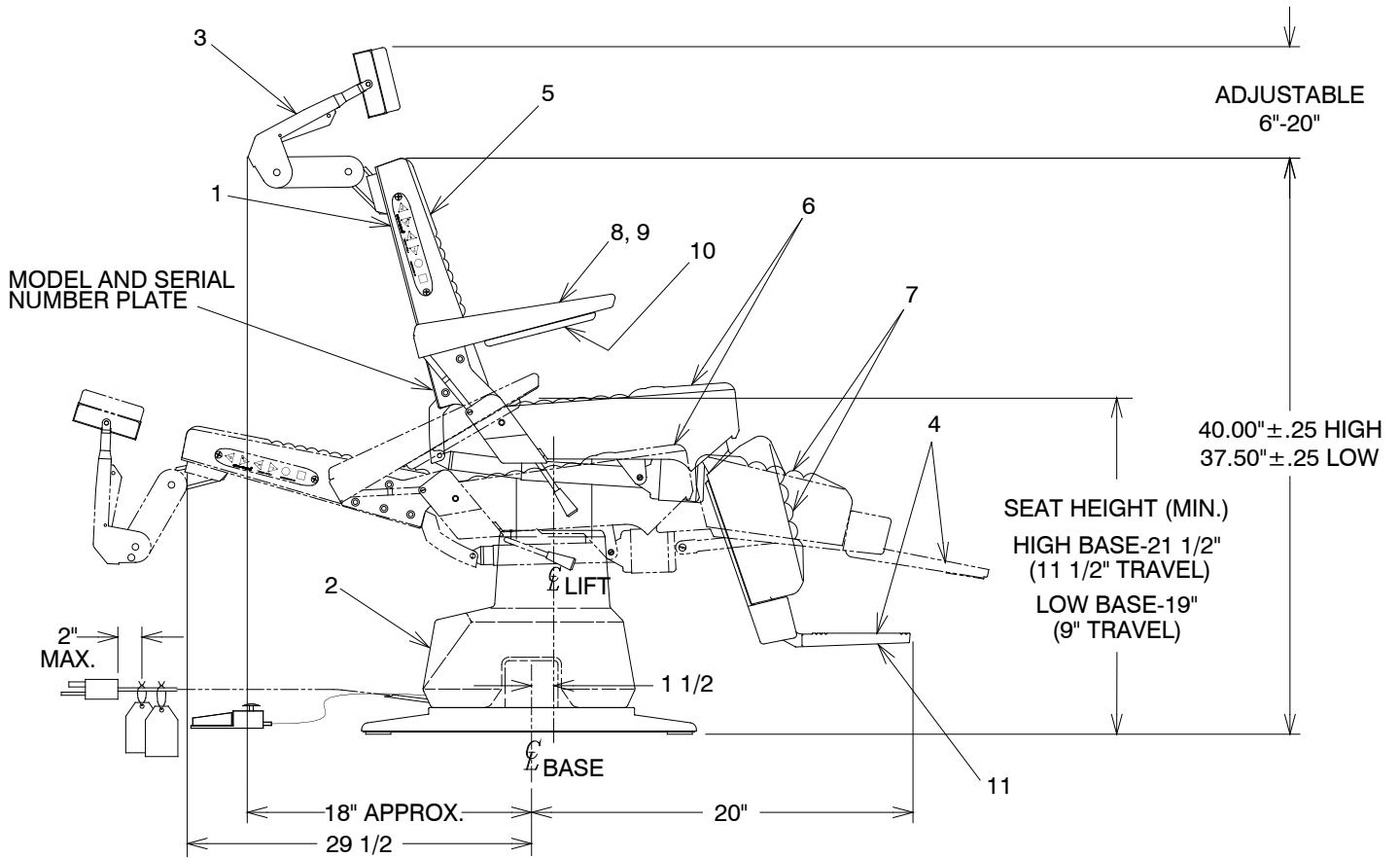


**Note :** Quand pièces de commande, s'il vous plaît :

1. Informez le distributeur ou l'usine du modèle et du numéro de série de l'ensemble. Ces numéros sont de la plaque qui est située à l'arrière, près du bas, de l'arrière, présidence.
2. Indiquez la couleur des pièces peintes. Les pièces peintes ont un astérisque (\*) derrière la description de pièce.

Should your Instrument Stand not perform properly, or if replacement parts are need, contact the Reliance® Distributor, where you purchased this product or contact the Technical Service Department, Reliance® Medical Products, Inc., 3535 Kings Mills Road, Mason, Ohio 45040-2303, or call (800) 735-0358.

**FIGURE 7  
7000 CHAIR ASSEMBLY**



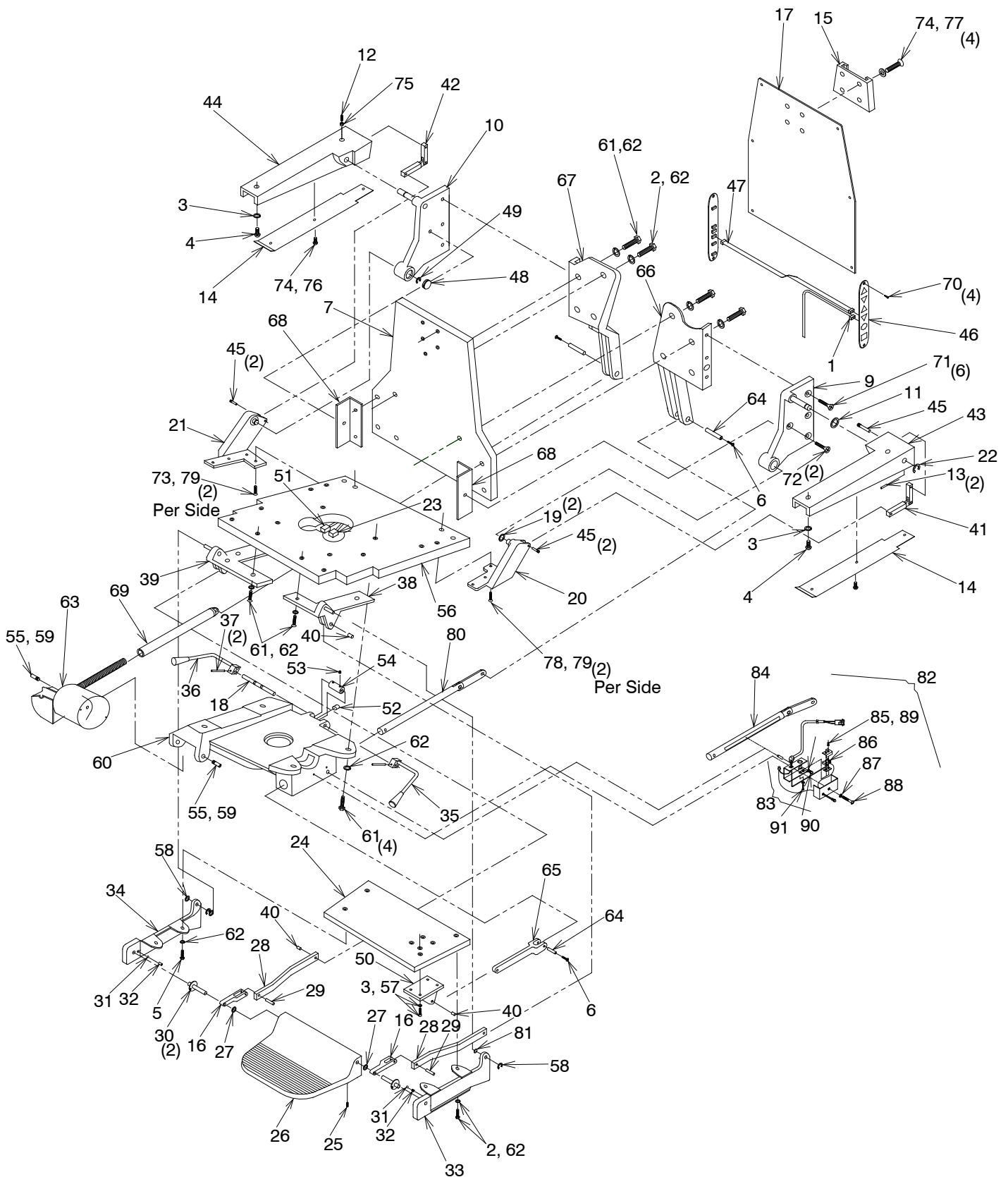
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1		Chair Top Assembly* (See Figure 8)	7	1479473	Upholstered Apron Assembly**
2		Base Assembly* (See Figure 9)	8	1467673	Upholstered Arm Assembly-Right**
3		Headrest Assemblies (See Figures 11 thru 14)	9	1467773	Upholstered Arm Assembly-Left**
4	1760403	Footstep*	10	0667873	Upholstered Arm Pad Assembly**
5	1479273	Upholstered Back Assembly**	11	1765073	Scuff Pad**
6	1479373	Upholstered Seat Assembly**	12		

\*\* Please specify upholstery color when ordering.  
To order complete Upholstery Set use P/N.

\*Please specify paint color when ordering.

2077873 Designer Upholstery Set Without Headrest Pad - 7000  
1478473 Designer Upholstery Set With No. 18 Headrest Pad - 7000

**FIGURE 8**  
**7000 CHAIR ASSEMBLY**



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	1546699	Hinge Cable Assembly	23	1643899	6 Circuit Plug
2	0708499	H.H.C.S. 3/8-16 x 1 1/4	24	1422492	Apron Board Assembly
3	0728299	1/4 Split Lock Washer	25	0722899	S.S.H.S. 1/4-20 x 3/8
4	0713199	R.H.M.S. 1/4-20 x .75	26	1760403	Footrest*
5	0715699	F.H.M.S. 3/8-16 x 1	27	0609699	Fiber Washer
6	0824399	T.H.M.S 8-32 x 3/8	28	0603585	Connecting Rod
7	1602992	Back Board Assembly	29	1478299	1/4 x 7/8 Drivlok Pin
8	0606199	3/8 Counter Sink Lockwasher	30	0614299	Footstep Pin Assembly
9	0603172	Side Plate Assembly - Right*	31	0606099	9/32 Dia Steel Ball
10	0603272	Side Plate Assembly - Left*	32	0605999	Spring
11	0396299	Spring Washer	33	0609372	Hanger Assembly - Right*
12	0725999	S.H.S.S. 1/4-20 x 3/4	34	0609472	Hanger Assembly - Left*
13	0761899	3/16 x 1 Roll Pin	35	0605299	Lock Handle Assembly - Right
14	0556285	Armrest Cover	36	0605399	Lock Handle Assembly - Left
15	0136703	Headrest Bracket*	37	0569499	Roll Pin 3/16 x 3/4
16	0126303	Footstep Crank*	38	0604092	Hanger Bracket Assembly - Right
17	1606603	Back Cover - With ENT*	39	0604192	Hanger Bracket Assembly - Left
	1548803	Back Cover - Without ENT*	40	0762899	1/4 x 1 Drivlok Pin
18	0605499	Lock Shaft	41	1842692	Armrest Link Assembly - Right
19	0411199	Fiber Washer	42	1842792	Armrest Link Assembly - Left
20	0603803	Back Hinge Assembly - Right*	43	0122203	Armrest Bracket - Right*
21	0603903	Back Hinge Assembly - Left*	44	0122303	Armrest Bracket - Left*
22	0732699	1/2 Retaining Ring	45	0563299	Linkage Pin

For Items 46 thru 91 see page 22.

\*Please specify paint color when ordering.

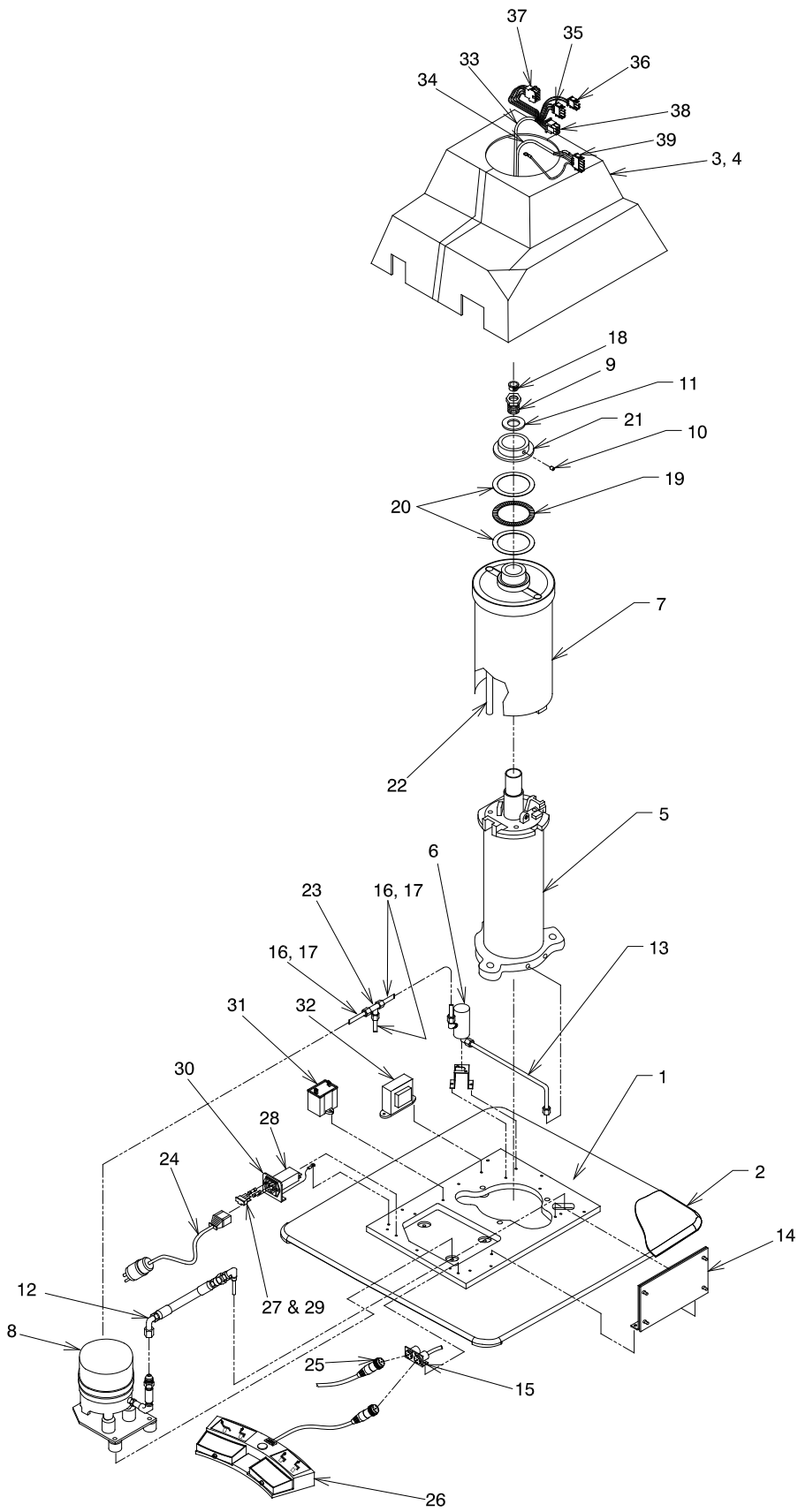
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
46	1548099	Membrane Switch Assembly	69	0610472	Nut Tube Assembly*
47	1546299	Ribbon Cable	70	0569699	O.H.W.S. #6 x 3/4 Phil
48	0387303	Plug Button*	71	0808699	F.H.C.S. 1/4-20 x 1 Sck't
49	0603399	Truarc Ring	72	1111399	F.H.C.S. 1/4-20 x 3/4 Sck't
50	0126485	Apron Bracket	73	0611899	F.H.M.S. 1/4-20 x 1 3/4 Phil
51	1660899	6 Circuit Cap	74	0729999	1/4 Washer
52	0643599	Lock Plug	75	0703699	1/4-20 Keps Hex Nut
53	0722699	S.H.S.S. 1/4-20 x 25	76	0789199	R.H.M.S. #10-24 x 3/8
54	0561799	Locking Cam	77	0706199	R.H.M.S. 1/4-20 x 1.15 Sck't
55	0604599	3/8-16 Mounting Screw	78	0713599	F.H.M.S. 1/4-20 x 1.25 Phil
56	1421892	Seat Board Assembly	79	0729199	1/4 Lock Washer
57	0788699	H.S.C.S. 1/4-20 x 1	80	2077192	Rod & Link Assembly
58	0732599	Truarc Ring	81	0729599	.375 Washer
59	0508699	Nylon Washer	<b>MEMORY SWITCH OPTION</b>		
60	0125185	Seat Support	82	2041192	Memory Kit - with Push Rod Assembly
61	0708599	H.H.C.S. 3/8-16 x 1 1/2	83	1721992	Memory Switch Assembly
62	0728499	3/8 Lock Washer	84	1460092	Rod & Link Assembly - Memory
63	1660092	Actuator Assembly - 120V	85	1019799	2-56 Hex Nut
	1660192	Actuator Assembly - 230V	86	1443499	S.P.D.T. Switch
64	0606399	8-32 Hinge Bracket Pin	87	0728899	#10 Internal Tooth Washer
65	0603685	Apron Link	88	0718099	R.H.M.S. 10-24 x 1 1/4
66	0125372	Back Bracket - Right*	89	1019899	#2 Internal Tooth Washer
67	0125472	Back Bracket - Left*	90	0715799	R.H.M.S. 10-24 x 1/4
68	1108695	Back Angle Bracket	91	0308799	R.H.M.S. 2-56 x 5/8

Part List for Figure 8 page 20

\*Please specify paint color when ordering.

**(NOTES)**

**FIGURE 9**  
**CHAIR BASE ASSEMBLY**





ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	1712603	Base	21	0123885	Lock Nut
2	1155097	Base Cover	22	1548195	Wiring Tube-High
3	1601792	Base Housing - Low		1548395	Wiring Tube-Low
4	1601992	Base Housing - High	23	1127599	Union Tee
5		Lift Assembly (See Figure 10)	24	1596999	Power Cord Assembly
6	1707792	Solenoid Valve Assembly-120V	25	1550599	Chair Control Cable-LV To LV
	1707892	Solenoid Valve Assembly-230V	26	1608192	Footswitch Assembly
7	0607792	Keyshield Assembly-Low*	27	1634299	Fuse, 6.3A / 250V-120V
	0903692	Keyshield Assembly-High*		1634999	Fuse, 4A / 250V-230V
8	1988592	Pump/Motor Assembly-120V	28	1976799	Power Entry Module W/ Filter
	1988692	Pump/Motor Assembly-230V	29		Fusedrawer, 2 Pole (In Item 28)
9	1547899	Piston Rod Bolt	30	1993299	AC Input Bracket
10	1525899	Set Screw-#10-24 x 1/2	31	1597299	Capacitor, Starting-120V
11	0607299	Washer		2002199	Capacitor, Starting-230V
12	1720192	Hose Assembly	32	1993592	Ent Transformer Assembly - 120V
13	1596292	Pressure Tube Assembly		1994392	Ent Transformer Assembly - 230V
14	2025199	P.C. Board Assembly	33	1710899	Base Cable Grey
15	1993092	Foot/Console Braket Assembly	34	1710092	Base Cable Black
16	0458999	Tubing-5-1/2	35	1643699	3 Circuit Plug
17	1081999	Tubing Insert	36	1660499	2 Circuit Plug
18	1547999	Snap Bushing	37	1660899	6 Circuit Cap
19	0559999	Thrust Bearing	38	1643899	6 Circuit Plug
20	0560099	Thrust Washer	39	1663892	Ground Wire Assembly-Actuator



**NOTE-** Power cord for 230V base does not include a plug.

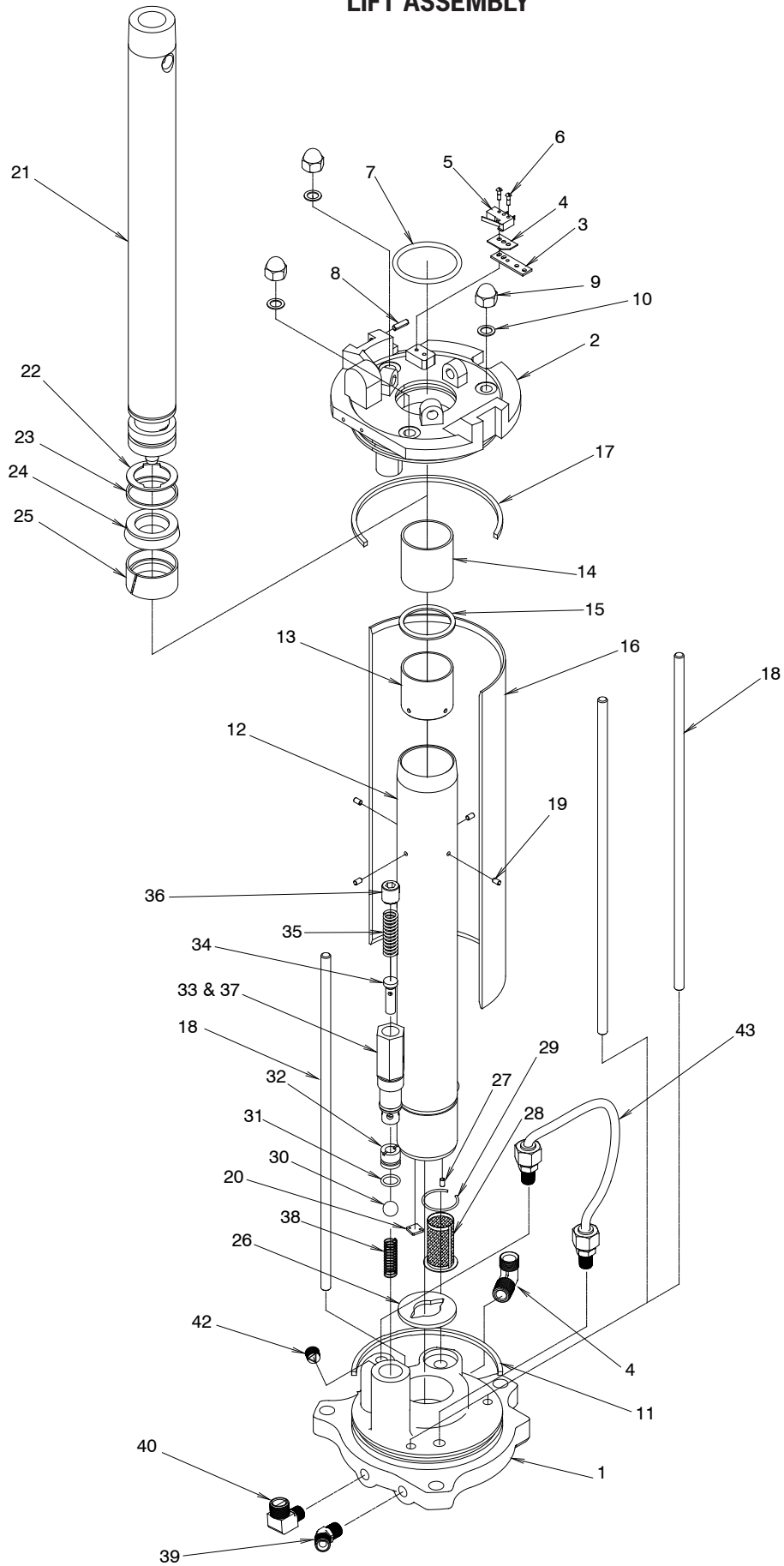
To order complete Base Assembly use P/N's.

- 1997492 Chair Base Assembly - Low - 120V\*
- 1997592 Chair Base Assembly - High - 120V\*
- 1997692 Chair Base Assembly - Low - 230V\*
- 1997792 Chair Base Assembly - High - 230V\*



**NOTE-** Le cordon de secteur pour la base 230V ne comprend pas une fiche.

**FIGURE 10**  
**LIFT ASSEMBLY**



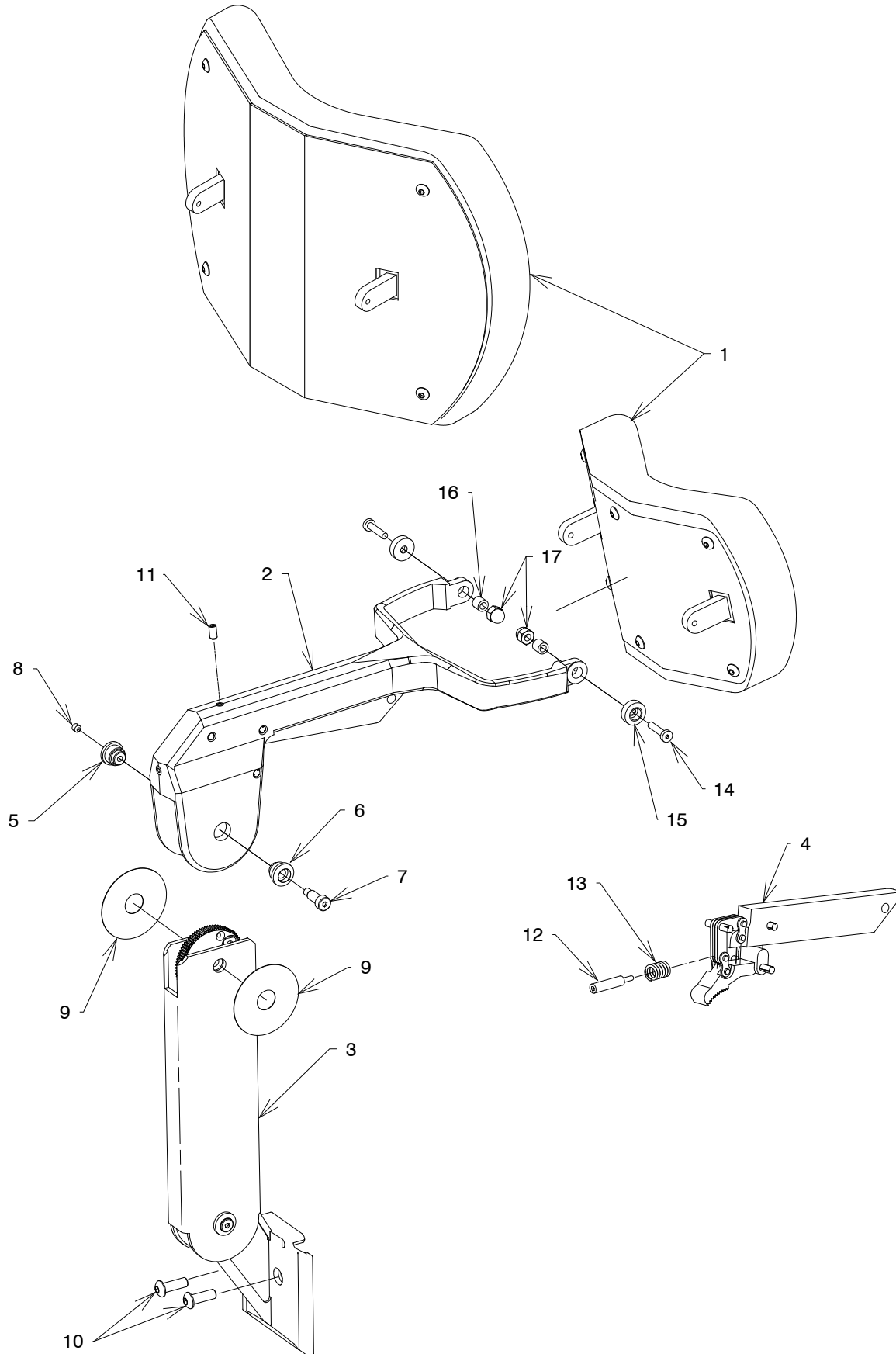
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	1012795	Lift Base	22	0733299	Retaining Ring
2	1019095	Lift Top	23	0512599	Backup Ring
3	0439979	Switch Plate	24	0730899	U - Pack
4	0929699	Insulator	25	0512499	Piston Ring
5	1011399	Switch	26	0353199	Cylinder Gasket
6	0727599	Drive Screw	27	0569299	Pin - Roll
7	0731499	"O" Ring	28	0466399	Filter Screen
8	1019599	Pin	29	0446099	Snap Ring
9	0485199	Nut - Acorn 5/16	30	0741799	Valve Ball
10	0365799	Gasket - Tie Rod	31	0731199	"O" Ring
11	0432599	Base Column Seal	32	0441999	Valve Seat
12	0903292	Cylinder Assembly - High	33	1012499	Valve Housing
	0526792	Cylinder Assembly - Low	34	0363299	Relief Valve Plunger
13		Spacer - Cylinder (in Item 12)	35	0784699	Relief Valve Spring
14		Bushing (in Item 12)	36	1012399	Set Screw
15		Ring - Quad (in Item 12)	37	0731299	"O" Ring
16	0902285	Base Column - High	38	0442499	Valve Spring
	0563885	Base Column - Low	39	0447499	Elbow - 45°
17	0432599	Base Column Seal	40	1081899	Elbow - 90°
18	0901999	Tie Rod - High	41	0447199	Elbow - 90°
	0563699	Tie Rod - Low	42	0303699	Plug - Pipe 1/8-27 Sckt Head
19		Pin - Roll (in Item 12)	43	1060392	Tubing Assembly
20	0422899	Disc - Valve			
21	1015995	Piston Rod - High			
	1015895	Piston Rod - Low			

To order complete Lift Assembly use P/N's.

1012992 Lift Assembly - High

1012892 Lift Assembly - Low

**FIGURE 11**  
**# 18 & # 22 HEADREST ASSEMBLY**



ITEM	PART NO.	DESCRIPTION
1	0475673	Pad Assembly - No. 18*
	1680073	Pad Assembly - No. 22*
2	1460492	Yoke Assembly*
3	1460592	Gear & Bracket Assembly*
4	1470692	Actuator & Lock Gear Assembly
5	1425299	Pivot Cap, Right
6	1425399	Pivot Cap, Left
7	0307599	Screw, Shoulder 1/4 x 1
8	0726099	S.H.S.S. #10-24 x 3/16
9	1424999	Washer, 2" OD
10	1454799	B.H.C.S. 1/4-28 x 1/2
11	1456399	S.H.S.S. #10-24 x 3/8
12	1427099	Spring Plunger
13	1538899	Spring
14	1454999	L.H.C.S. #10-24 x 3/4 - Socket
15	1434799	Pivot Cap, Pad
16	0467195	Bushing .188 I.D x .312 O.D.
17	1456199	Nut, Acorn 1/4-20 Low Crown

To order complete Headrest Assembly use P/N.

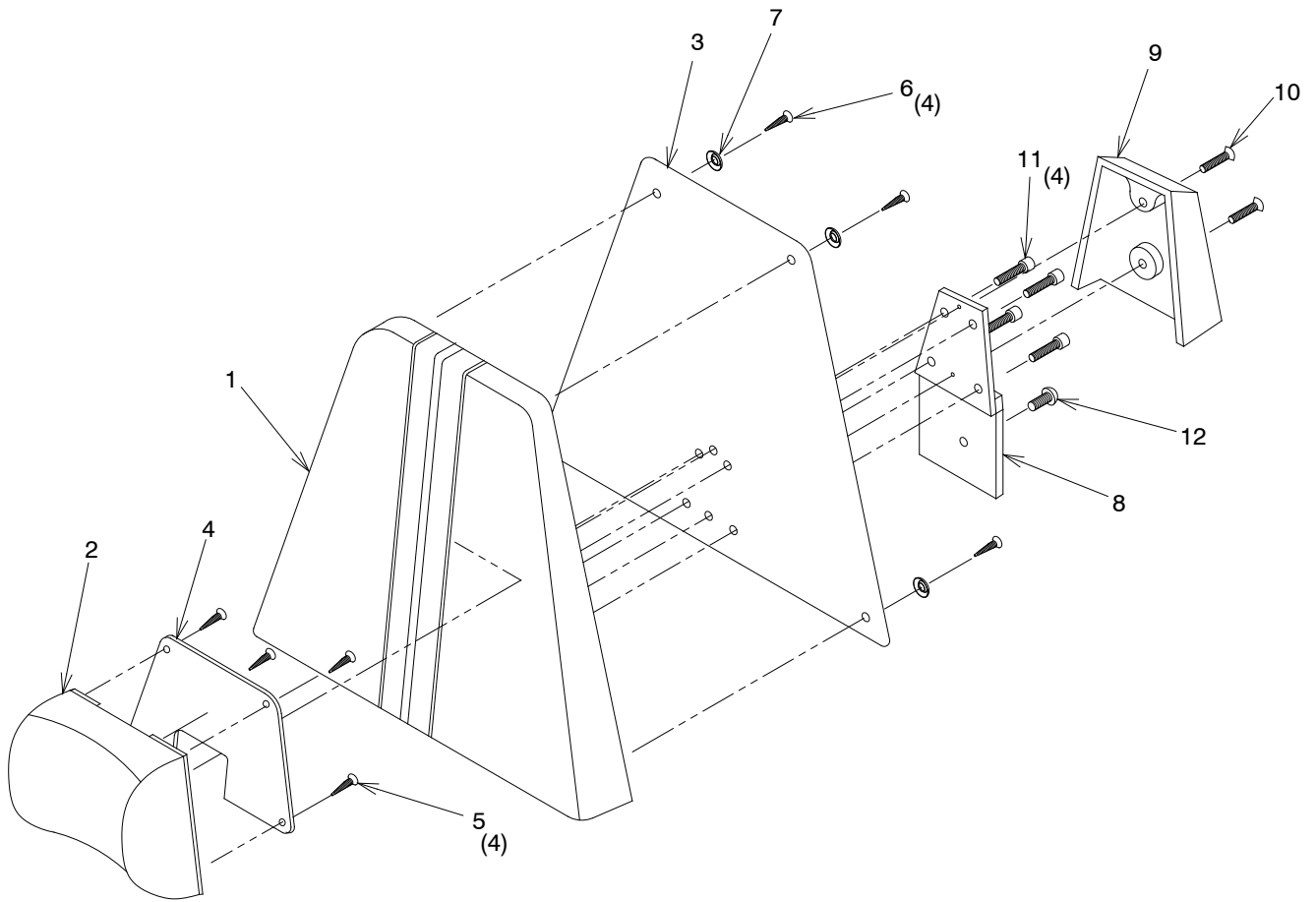
144080 #18 Headrest Assembly\*

144070 #22 Headrest Assembly\*

\*Please specify paint color when ordering.

\*\* Please specify upholstery color when ordering.

**FIGURE 12**  
**# 10 HEADREST ASSEMBLY**



ITEM	PART NO.	DESCRIPTION
1	0665073	Uph # 10 Board Assembly**
2	0574173	Pillow Assembly - #10**
3	0567903	High Back Cover*
4	0568003	Pillow Back Cover*
5	0845199	F.H.W.S. #6 x .50 - Phil
6	0569699	O.H.W.S. #6 x 3/4
7	0569799	#6 Finishing Washer
8	0557499	Mounting Plate Assembly
9	0123203	Bracket Cover*
10	0808699	F.H.C.S 1/4-20 x 1.00 - Socket
11	0788699	S.H.C.S. 1/4-20 x 1.00
12	0691699	B.H.C.S. 1/4-28 x 3/8 - Socket

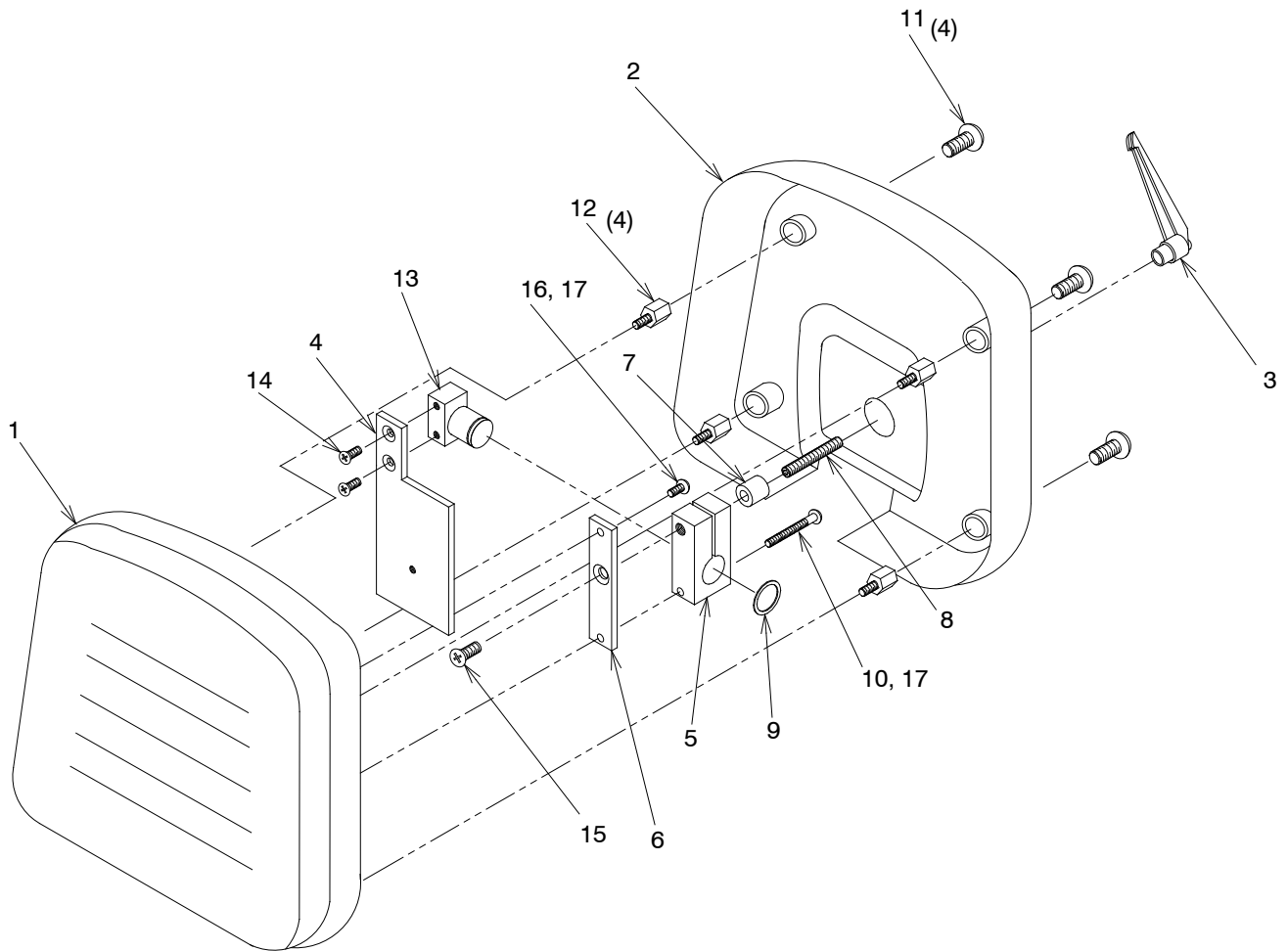
To order complete Headrest Assembly use P/N.

665200 #10 Headrest Assembly\*

\*Please specify paint color when ordering.

\*\* Please specify upholstery color when ordering.

**FIGURE 13**  
**# 11 HEADREST ASSEMBLY**





ITEM	PART NO.	DESCRIPTION
1	1557573	Uph # 11 Pad Assembly**
2	1558897	Headrest Cover
3	1562499	3/8" Adjustable Handle
4	1558903	Mounting Plate*
5	1559295	Headrest Lock Block
6	1559395	Headrest Pad Mounting Plate
7	1207199	3/4 O.D x 3/8 I.D x 3/4 Spacer
8	1562899	S.H.S.S. 3/8-16 x 2 1/2
9	0472999	Retaining Ring
10	1559599	R.H.M.S 1/4-20 x 2 1/2
11	1523699	T.H.M.S. 5/16-18 x 1/2
12	1571799	Short Standoff
13	1559092	Stud Mount Assembly
14	0712999	F.H.M.S 1/4-20 x 3/4
15	1559499	F.H.M.S 3/8-16 x 3/4
16	0713199	R.H.M.S 1/4-20 x 3/4
17	0728299	1/4 Lockwasher

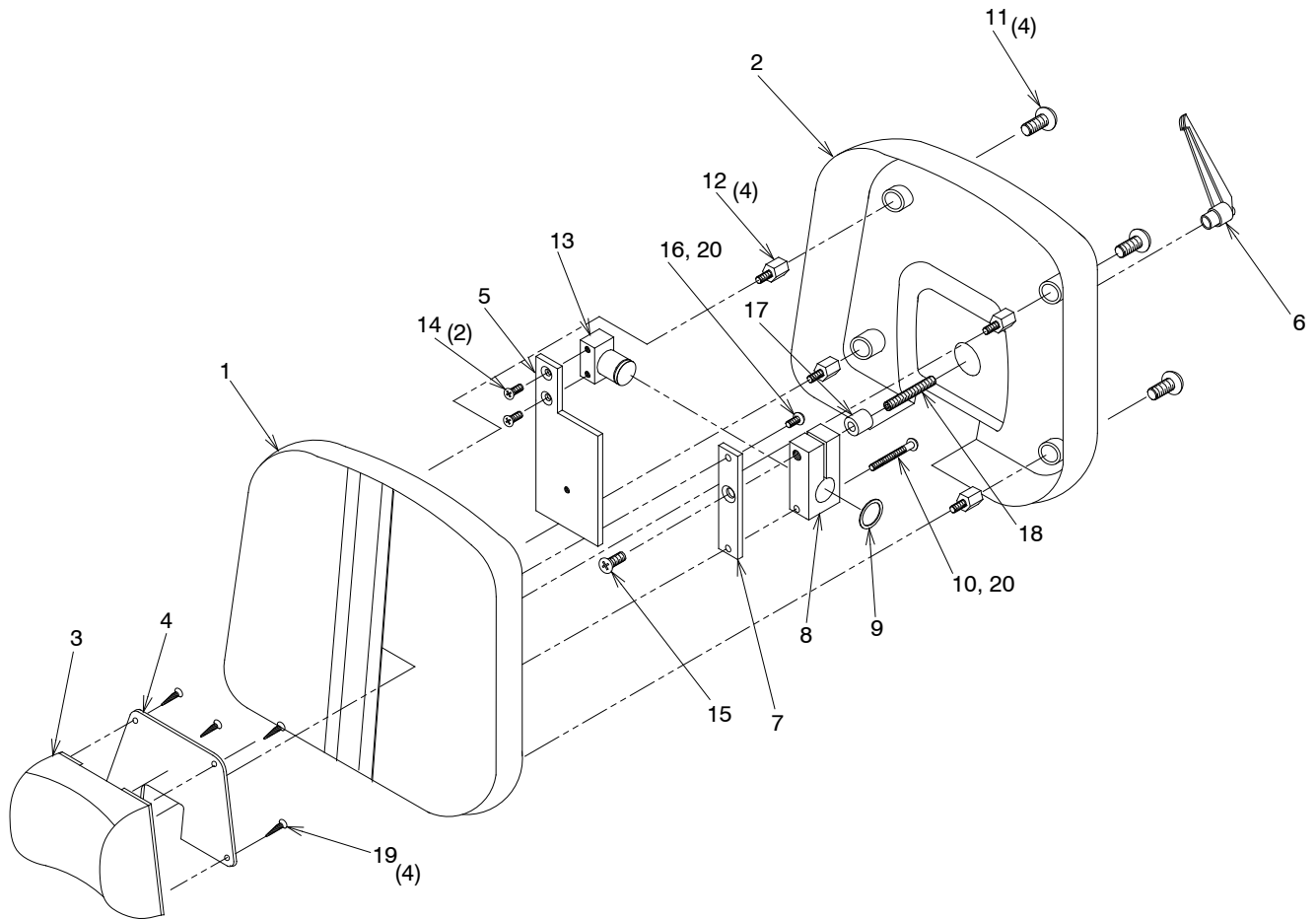
To order complete Headrest Assembly use P/N.

155720 #11 Headrest Assembly\*

\*Please specify paint color when ordering.

\*\* Please specify upholstery color when ordering.

**FIGURE 14**  
**# 21 HEADREST ASSEMBLY**



ITEM	PART NO.	DESCRIPTION
1	1846373	Uph # 21 Pad Assembly**
2	1558897	Headrest Cover
3	0574173	Pillow Assembly**
4	0568003	Pillow Board Back Cover*
5	1558903	Mounting Plate*
6	1562499	3/8" Adjustable Handle
7	1559395	Headrest Pad Mounting Plate
8	1559295	Headrest Lock Block
9	0472999	Retaining Ring
10	1559599	R.H.M.S 1/4-20 x 2 1/2
11	1523699	T.H.M.S. 5/16-18 x 1/2
12	1571799	Short Standoff
13	1559092	Stud Mount Assembly
14	0712999	F.H.M.S 1/4-20 x 3/4
15	1559499	F.H.M.S 3/8-16 x 3/4
16	0713199	R.H.M.S 1/4-20 x 3/4
17	1207199	3/4 O.D x 3/8 I.D x 3/4 Spacer
18	1562899	S.H.S.S. 3/8-16 x 2 1/2
19	0845199	F.H.W.S. #6 x 1/2 - Phil
20	0728299	1/4 Lockwasher

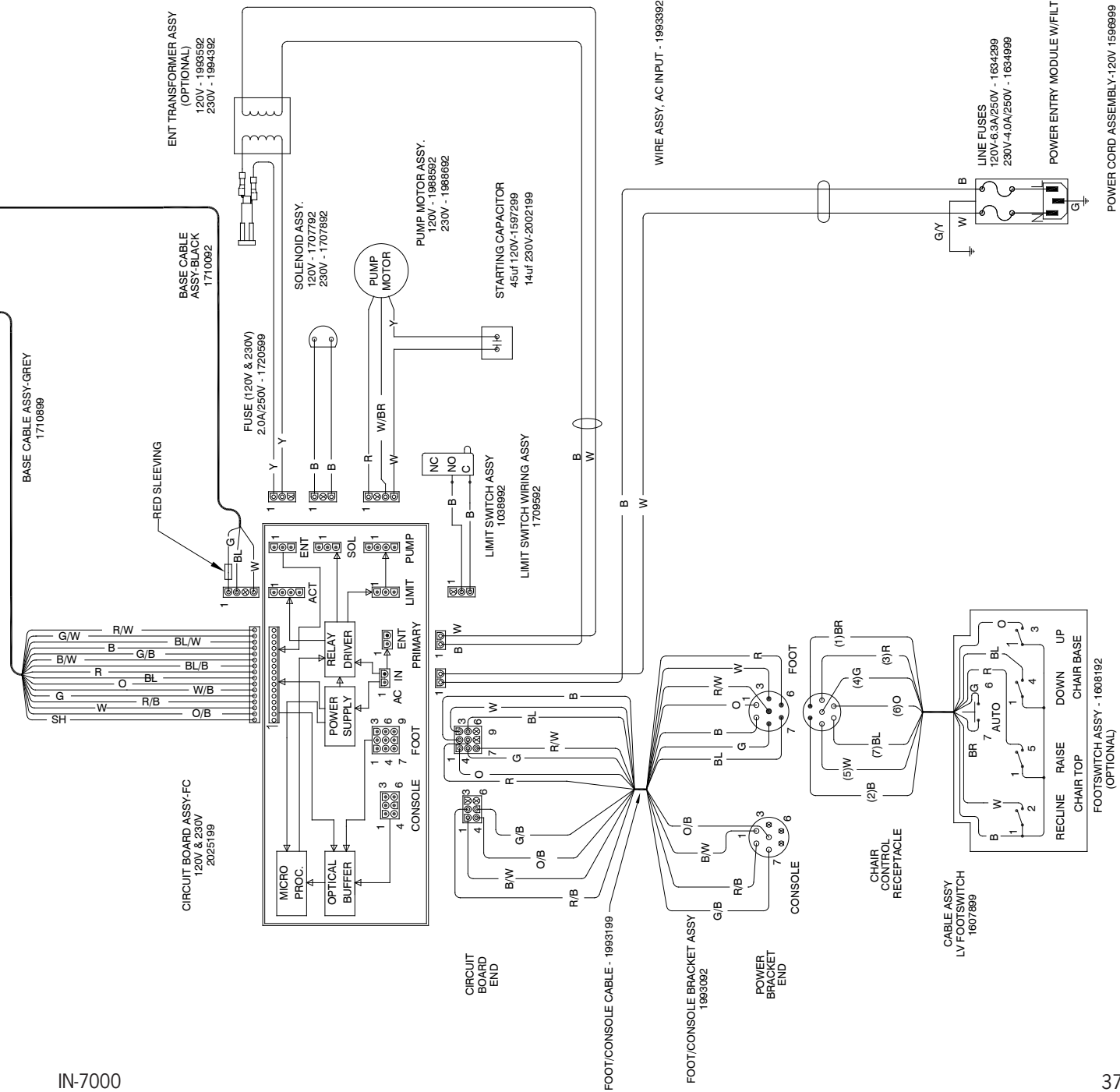
To order complete Headrest Assembly use P/N.

184640 #21 Headrest Assembly\*

\*Please specify paint color when ordering.

\*\* Please specify upholstery color when ordering.





**(NOTES)**

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