SOUND PRO™ COMBINATION TABLE

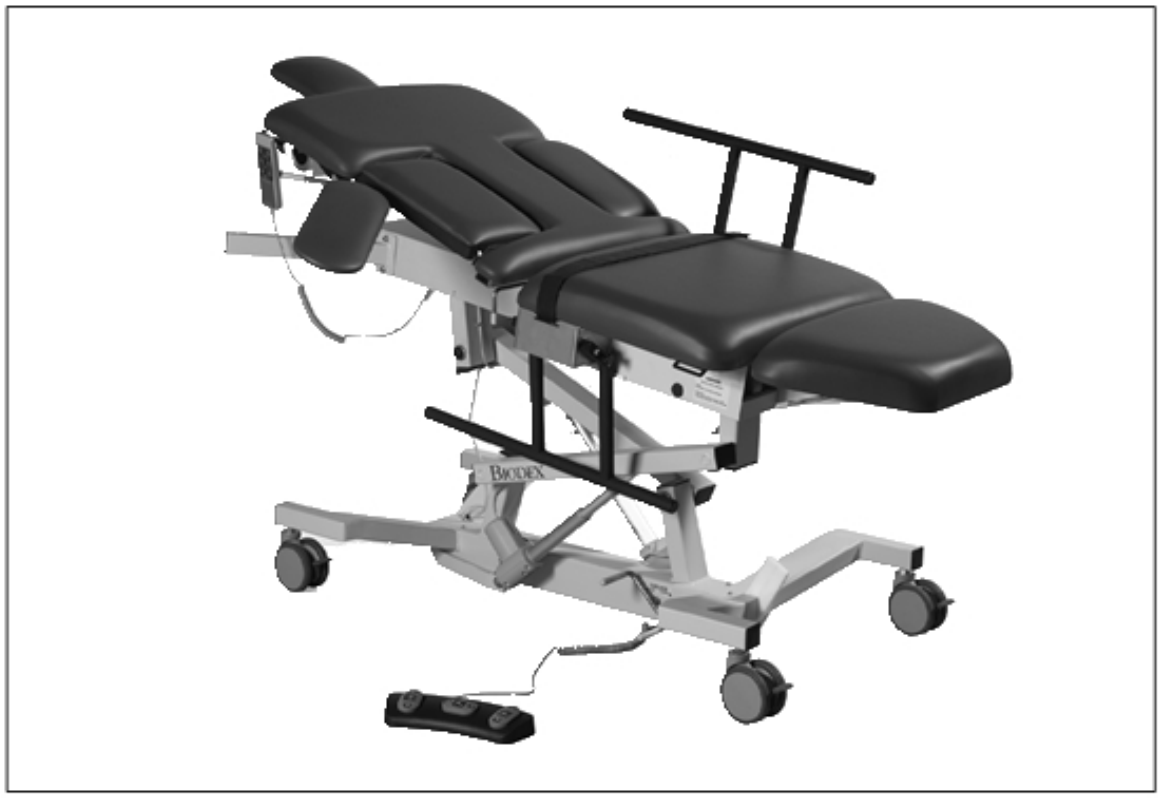
OPERATION MANUAL

058-710
058-715

BIODEX
Biodex Medical Systems, Inc.

FN: 08-233 Rev C 6/15

Sound Pro™ Combination Table



This manual covers operation procedures for the following products:

058-710 Sound Pro Combination Table, 115 Vac
058-715 Sound Pro Combination Table, 230 Vac

Table of Contents

Definition of Symbols

The following symbols and their associated definitions are used and implied throughout this manual.

Symbol	Definition
	Carefully read these instructions prior to use
	Caution
	General Warning
	General Mandatory Action
	Dangerous Voltage
	“On” Power
	“Off” Power
	Earth (ground)
	Alternating Current
	Fuse
	USB Connector/Cable
	Waste in Electrical Equipment
	Date of Manufacture
	Type B Applied Part
	CE Mark
	CE Mark for products with EC Certificate
	Certified for Safety by ETL Intertek

Before Proceeding

NOTE: *The warnings, cautions and instructions provided in this manual must be read, followed and kept available for consultation at all times. Observing the information, instructions and procedures presented throughout this manual is essential for using this product both properly and safely.*

SPECIFIC CAUTIONS

- *Allow only qualified, trained personnel to operate or service this product.*
- *If the equipment is used in a manner other than specified in this operation manual, the protection provided by the equipment may be impaired and results could be compromised.*
- *Never leave patient unattended on table.*
- *When the table is used in a wet environment, it is recommended that the foot controller be covered with a plastic bag and sealed as watertight as possible.*

EN GARDE SPÉCIFIQUES

- *Permettez au personnel seulement autorisé, entraîné de faire marcher ou assurer l'entretien de ce produit.*
- *Si l'équipement est utilisé dans une manière autre qu'indiqué dans ce manuel d'opération, la protection fournie par l'équipement peut être diminuée et les résultats pourraient être compromis.*
- *Ne quittent jamais le patient sans surveillance sur la table.*
- *Quand la table est utilisée dans un environnement mouillé, il est recommandé que le contrôleur de pied soit couvert avec un sac de plastique et cacheté si inattaquable que possible.*

CAUTION: *Unauthorized modifications to this product are not permitted and will void the manufacturer's warranty. Unauthorized modification of the product may result in a hazard to the user and/or patient. Do not modify this equipment without authorization from the manufacturer.*

ATTENTION: *Les modifications faites sans autorisation à ce produit ne sont pas Permises et va faire le vide la garantie du fabricant. La modification faite sans Autorisation du produit peut s'ensuivre dans un hasard à l'utilisateur et-ou le patient. Ne modifiez pas cet équipement sans autorisation du fabricant.*

CAUTION: *Before moving the table with a patient, make sure side rails are in the up position and body straps in place to secure the patient.*

ATTENTION: *Avant le fait de déplacer la table avec un patient, assurez-vous que les rails de côté sont dans en haut la position et les courroies de corps dans l'endroit pour protéger le patient.*

Training

This operation manual includes assembly and operating instructions. Operating/assembly questions can be directed to our service department during business hours.

User Profile

Patient

The product (without accessories) shall accommodate patients fitting the following profile:
Height: from infant to 74 inches (6ft - 2in)
Weight: up to 500 lbs
Age: infant to 65 years of age

Sonographer

The product shall accommodate sonographers fitting the following profile:
5th percentile female, 20-65 years of age
95th percentile male, 20-65 years of age

Product Certifications and Classifications

The Sound Pro Combination Table has received the following certifications, and falls within the following classifications:

- ETL Listed Electrical Equipment, General Requirements for Safety conforms to EN 60601-1, 2nd Ed, EN 60601-1:1998, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 60601-1-2, EN 1970, UL 60601-1, 1st ED, 4-25-2003 rev 2006/04/26 and CAN/CSA C22.2 No.: 601.1M9.
- Type B Applied Part 
- Electromagnetic Compatibility: This equipment complies with the Medical Equipment IEC60601-1-2 EMC Standard.

Authorized European Community Representative:

EC	REP

Emergo Europe
Molenstraat 15
2513 BH, The Hague
The Netherlands

Important Safety Information

CAUTION: *Federal Law restricts this device to sale by or on the order of a physician, sonographer or other licensed professional.*

ATTENTION: *La Loi Fédérale restreint cet artifice à la vente par ou sur l'ordre d'un docteur, sonographer ou d'autre professionnel agréé.*

Follow the unpacking and assembly instructions document.

Before using this equipment, read the entire operation manual carefully. Failure to read the manual may result in user error or injury. Be sure to save all provided documents for future reference.

Make certain to understand all warning and caution labels as explained in the Before Proceeding section of this manual.

This product should be used only as specified in the operation manual.

Biodex Imaging Tables are designed for use in a patient environment.

Biodex Imagerie tableaux sont conçus pour une utilisation dans un environnement du patient

For product specifications, refer to the Table of Contents.

This medical electrical equipment requires special precautions regarding EMC and must be assembled and placed into service according to EMC information provided in this manual. For electromagnetic compliance definition, refer to the Table of Contents.

Reference Cleaning and Maintenance Instructions in Table of Contents.

CAUTION: *Operation for 058-710: 115 VAC, 60 Hz; 058-715 230 VAC, 50 Hz.*

ATTENTION: *Opération pour 058-710: 115 VAC, 60 Hz; 058-715 230 VAC, 50 Hz.*

WARNING: *Only use approved power supplies.*

AVERTISSEMENT: *N'utiliser que les alimentations homologuées*

CAUTION: *To avoid risk of electric shock, this equipment must only be connected to supply mains with protective earth.*

ATTENTION: *Pour éviter le risque de choc électrique, cet équipement doit uniquement être connecté à un approvisionnement conduites avec la terre protectrice.*

CAUTION: *The plug is considered the method of disconnecting the product from main power. Do not place the product in a position where the plug is not easily accessible.*

ATTENTION: *Le bouchon est considérée comme la méthode de déconnexion du produit d'alimentation. Ne placez pas le produit dans une position où le bouchon n'est pas facilement accessible.*

CAUTION: *This product is intended to remain in one location during operation. The product is provided with wheels for relocation and should be used when performing this operation. Once positioned, engage the central locking system lever to ensure stability.*

ATTENTION: *Le produit est voulu rester dans un emplacement pendant l'opération. Le produit est fourni avec les roues pour la relocalisation, et devrait être utilisé en exécutant cette opération. Une personne peut déplacer le produit.*

Biodex Medical Imaging Table Warranty

1. Product Warranty

A. This equipment and its accessories (excluding cushions,) are warranted by BIODEX MEDICAL SYSTEMS, INC. against defects in materials and workmanship for a period of two years from the date of shipment from BIODEX MEDICAL SYSTEMS, INC. During the warranty period, BIODEX MEDICAL SYSTEMS, INC. will, in its sole discretion, repair (on-site), send replacement parts or replace the equipment found to have such defects, at no charge to the customer.

B. Except as stated above, there are no warranties, expressed or implied, including without limitation warranties or merchantability or fitness for use. Biodex does not assume liability for incidental, consequential or indirect damages including loss of use, sales, profits or business interruption.

C. This warranty does not apply if the product, as determined by BIODEX MEDICAL SYSTEMS, INC., is defective due to abuse, misuse, modification or service performed by other than a BIODEX MEDICAL SYSTEMS, INC. authorized repair representative. Misuse and abuse include, but are not limited to, subjecting limits and allowing the equipment to become contaminated by fluid materials.

D. In order to obtain warranty repair service and to expedite repair process, please contact BIODEX MEDICAL SYSTEMS, INC. Support Services Dept. at 800-224-6339, and select product support as prompted.

2. Warranty is Non-Transferable.

3. Non-Warranty Service

A. Repairs and/or replacements not covered by this warranty may be performed by BIODEX MEDICAL SYSTEMS, INC. Authorized service representatives.

B. The cost of transportation to and from the service location will be the responsibility of the customer.

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Service Procedure

If you think you have a service problem, take the following action:

1. Check to see that the problem occurs more than once.
2. Refer to the instruction manual and operations procedure.

If you still think you have a service problem, call BIODEX MEDICAL SYSTEMS, INC. Service Department at (800) 224-6339 and select product service as prompted.

Keep yourself and the phone next to the equipment:

1. Biodex Service will ask you for a brief description of the problem. We will ask specific questions about the malfunction that occurred. This diagnostic process may take a few minutes, so call us when you can set aside an uninterrupted block of time.
2. After taking the information, we will advise on the action we will take.
3. Sometimes service personnel must consult with engineering and it may take time to get back to you. Be sure to let the service representative know your schedule so that we can call at a convenient time.
4. The return call may be from a person other than whom you first reported the problem.
5. After analyzing the problem, we will decide if the unit can be repaired on site or if replacement parts will be sent.
6. If the unit must be returned, it will be given a return materials authorization number (R.M.A. #) by us. Pack the system in the carton that it was originally shipped in, or pack it safely and securely to avoid shipping damage. It is the customer's responsibility for any damage that occurs during shipping.
7. Non-warranty/non-service contract charges for repair are as follows:

    a. Materials

    +

    b. Time

    +

    c. Travel Zone

1. INTRODUCTION

Intended Use

The Sound Pro Combination Table is designed to provide a safe ergonomic environment for the sonographer and patient. The design features are intended to relieve musculoskeletal stress on the sonographer while scanning, and to provide the utmost patient comfort.

Indications for Use

The Sound Pro Combination Table is typically used in radiology departments, diagnostic imaging centers and private practice clinics to achieve quality images for a variety of procedures and patient applications.

General Cleaning and Maintenance

1. As required, cleanse all exterior surfaces and tabletop pads with a mild detergent solution, such as Parker Laboratories Protex Disinfectant or any one-step disinfectant that does not contain bleach.
2. Keep wheel assemblies free of foreign materials and dirt accumulation.
3. Periodically inspect all welds.
4. Periodically check bolts on table, tighten if necessary.
5. Periodically inspect all strap holders. Any holder that feels loose should be removed and reattached after adding a spot of Loctite® Threadlocker (Blue #242) to the bolt threads. This should ensure that the bolt will not loosen again in the future.

Table Parts and Adjustments

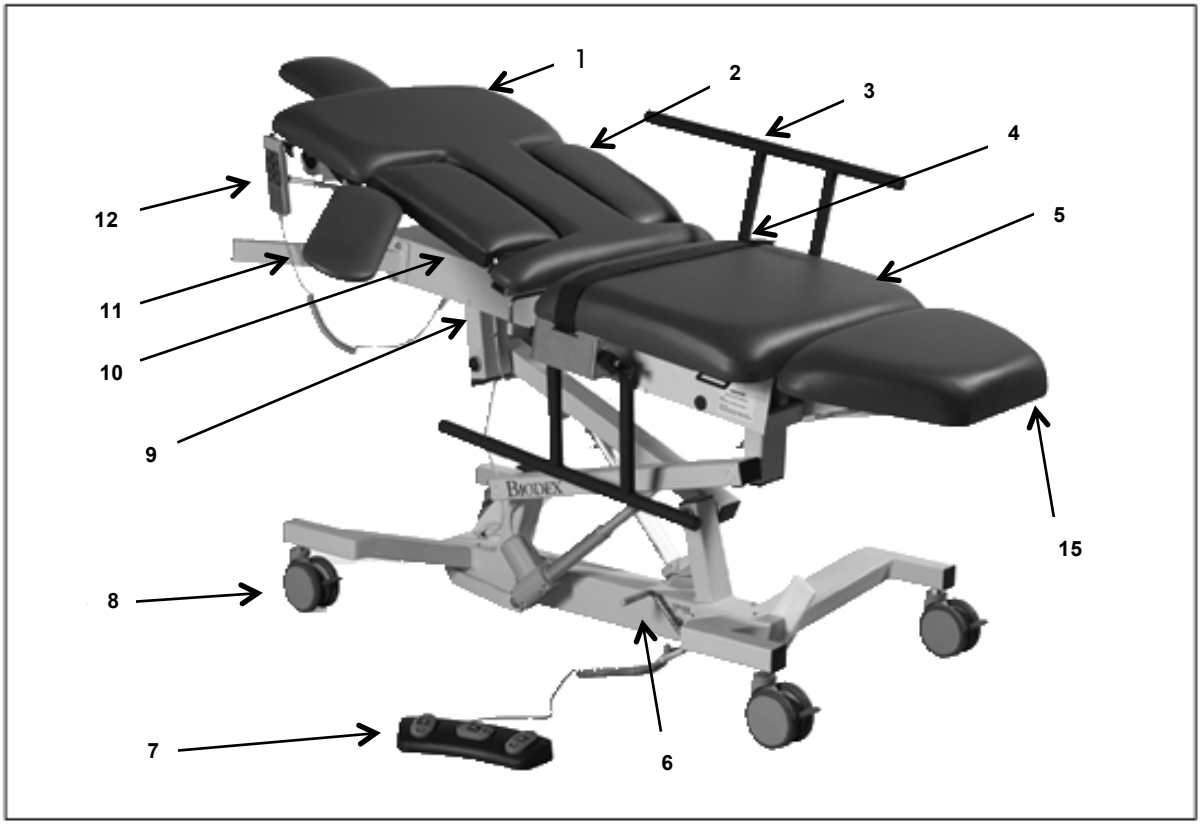


Figure 1. *The Biodex Sound Pro Combination Table parts and adjustments.*

Standard Parts and Adjustments:

1. Fowler Back
2. Cardiac Scanning Cutout Cushion
3. Side Rails, Folding
4. Restraining Strap
5. Extra-Wide Tabletop With 500-Lb Patient Capacity
6. Central Floor Locking System Lever
7. Foot Controller
8. 5" Locking Swivel Casters
9. Return Cardiac Scanning Cushion to Level Lever
10. Adjustable Sonographer Cutout Cushion
11. Arm Board, Vascular Scanning
12. Hand-Held Controller
13. I.V. Pole (not shown)
14. Dispenser, Paper, With Cutter Strap (not shown)
15. Drop Down Leg Section

Optional:

058-738 Extension, Headrest

2. ASSEMBLY AND TABLE OPERATION

Relocating The Table

CAUTION: *Before moving the table with a patient, make sure side rails are in the up position and restraining straps in place to secure the patient.*

ATTENTION: *Avant de déplacer la table avec un patient, assurez-vous que les rails latéraux sont dans les courroies hautes de position et de corps en place pour fixer le patient.*

This table can be easily moved across smooth surfaces. To relocate the table, release the central locking system by pressing on the short end of the central locking lever with your foot. All four wheels release at the same time.

Once positioned, depress the long end of the lever to engage the central locking system, ensuring stability.

NOTE: *In addition to the central locking system, each wheel can be locked individually by stepping down on the individual wheel lock lever.*

Height Adjustment

Table height is conveniently adjusted using either the hand or foot controller.

D-rings are located at the head end on each side of the table to hold the controller when not in use. A power light on the controller indicates that power from the control box is ON.

- To raise the table: press and hold down the table UP button.
- To lower the table: press and hold down the table DOWN button.

NOTE: *The control box, located underneath the tabletop, is labeled with controller specific information.*

Figure 2. *Hand –held controller activates table positions.*

Trendelenburg Positioning

The table can provide up to + or - 15˚ Trendelenburg positioning by raising or lowering either the head or foot end of the table with the hand or foot controller.

- For Trendelenburg positioning: Press and hold down the foot-end up button on the hand-held controller. This will simultaneously raise the foot end and lower the head end of the table. Release the button when the desired angle is achieved.

Fowler Back Adjustment

The motorized Fowler back is infinitely adjustable to 80˚ via the hand-held or foot controller.

Leveling The Table

The table has a self-leveling feature which can be used when the table is in a seated position.

- To level the table, press and hold both Fowler back buttons on the hand-held control.

Adjustable Sonographer Cutout Cushion

To assure patient and sonographer comfort, the adjustable sonographer cutout cushion can be fully lowered, or raised to either of two positions.

- To fully lower the cushion, reach under the cushion and squeeze together the two Sonographer Cutout Cushion release handles. This will release the cushion, which can now be lowered. To return the cushion back to the level position, squeeze the handles together and lift up on the cushion until it is higher than level and then lower the cushion back down until it locks in the level position.
- To raise the cushion, lift up on the cushion. There are two positions in which the raised cushion can be set. To set the cushion in the first raised position, lift the cushion two-thirds of the way to vertical and then allow it to slide back down slightly until you feel it lock into position. To raise the cushion to the fully raised position, lift the cushion all the way up to vertical and then allow it to move back slightly until it locks into place. To lower the cushion from either raised position lift up on the sonographer cutout cushion release lever, located along the head-end of the cushion and then lower the cushion.

Cardiac Scanning Cutout

The cardiac drop-down cushion can be released by pressing the yellow release handle which can be found toward the lower end of the Fowler back section on each side of the table. The cushion can be returned from either side of the table. From the right side you will find a handle located toward the head end of the table. By pressing this handle down, the cardiac cushion will return to level. From the left side of the table, simply push the cushion back up to level.

Installing and Using Accessories

NOTE: *The tools needed to install all table accessories are provided with the table. These include a 7/16" wrench, a 9/16" wrench and a Phillips screwdriver.*

Foot Controller (058-741)
The foot controller uses three separate rocker style pedals to control tabletop height, Trendelenburg and Fowler positioning.

⚠ ***CAUTION:*** *When the table is used in a wet environment, it is recommended that the foot controller be covered with a plastic bag and sealed as watertight as possible.*

⚠ ***ATTENTION:*** *Quand la table est utilisée dans un environnement mouillé, il est Recommandé que le contrôleur de pied soit couvert avec un sac de plastique et cacheté si inattaquable que possible.*

To install the foot controller:

1. Locate the foot control port on the frame underneath the seat cushion.
2. Insert the foot controller plug into the port (labeled "foot control") so that the plug key faces up and slides fully into the port slot. The foot controller should now be ready for use.

Using the foot controller:

To use the foot controller, simply press and hold down the appropriate rocker switch with your foot to adjust the table as desired. Releasing the rocker switch at any time immediately stops the motion.

Figure 3. *The foot controller can be used to adjust tabletop height, Trendelenburg, and Fowler positioning.*

Articulating Scanning Arm Board, (058-736)

The Articulating Scanning Arm Board is installed by inserting the arm board tube into the receiving tube located on each side of the table below the Fowler back section. The arm board pivot is adjustable at any point along its 130˚ arc. To adjust, press the yellow button on the arm board and move to the desired location; release yellow button. *(See Figures 5–8.)*

To remove the arm board, press the release button beneath the receiving tube and pull to remove.

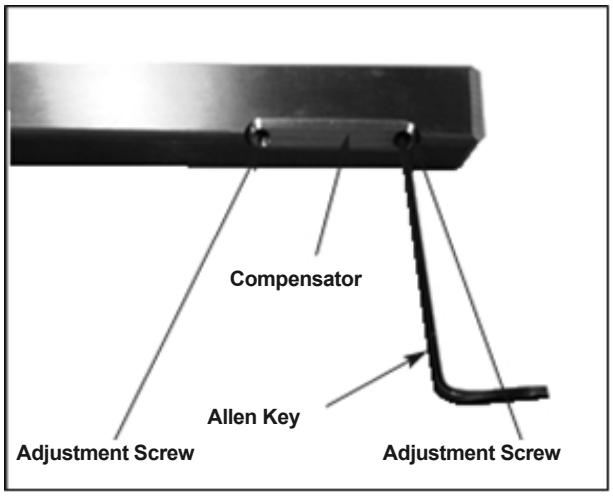


Figure 4.

Figure 5. *The articulating scanning arm board.*

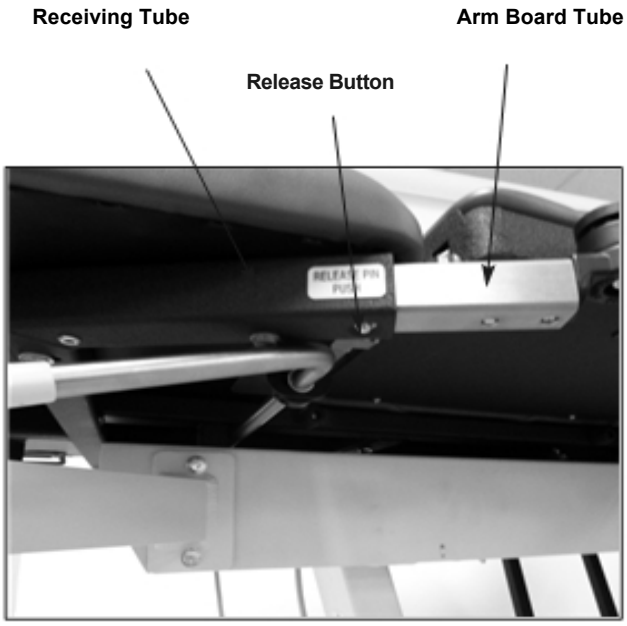


Figure 6.

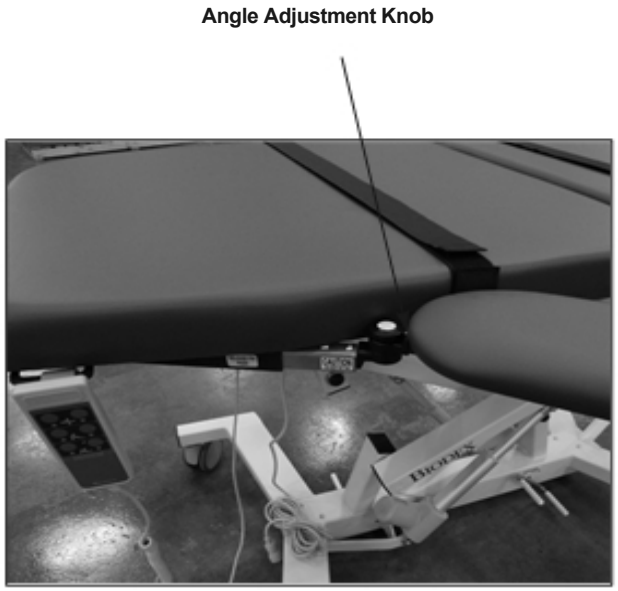


Figure 7.

Side Rails (058-633)

The side rails can be installed on both sides of the table. Each rail pivots individually to either the raised or lowered position. Two rails are supplied; one for each side of the table.

To install the side rails:

1. Using a 7/16" wrench, remove the four 1/4-20" hex head screws from under the abdominal cushion (toward the rear of the cushion) on the side of the table to which the side rail will be installed. Remove the strap bracket and save the screws to reinstall in step 3.
2. Position the side rail support bracket against the bottom of the cushion so the four pre-drilled screw holes in the bracket align with the screw holes under the seat cushion.
3. Using a 7/16" wrench install the four screws removed in step 1 through the side rail support bracket. Tighten securely.
4. Press the small piece of vinyl trim bumper onto the lower frame edge beneath the mid-point of the seat.
5. Install the straps into the side rails strap brackets.

Using the side rails:

1. To raise either side rail, pull out the side rail pull pin and gently swing the rail upward so that it locks fully into position.
2. To lower either side rail, pull out the side rail pull pin and, while supporting the side rail, allow it to gently swing down and under the table until the rail locks in place.

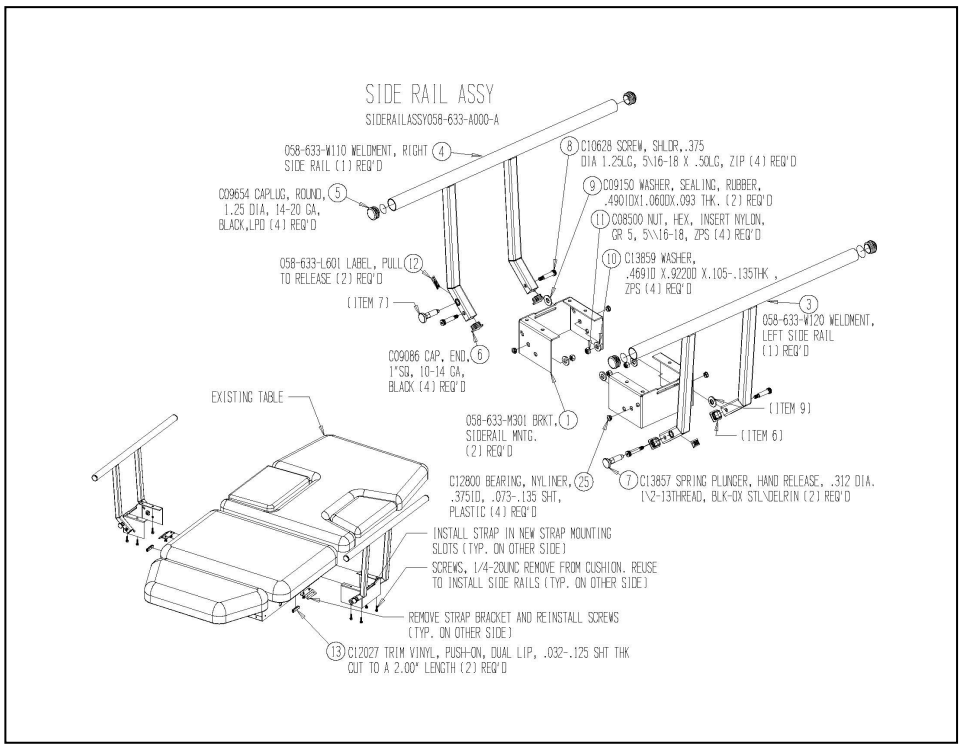
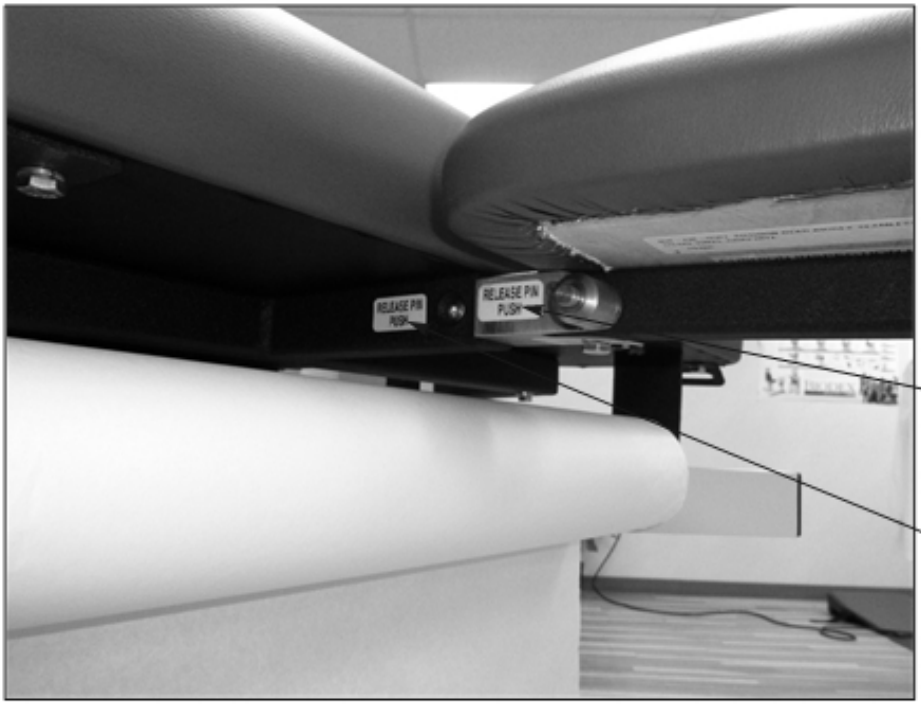


Figure 8. *Installing the side rails.*

Headrest (058-738)

The optional headrest is removable and adjustable. To install the headrest, simply slide it into the receiving tube at the head end of the table until it clicks into place.



Figures 9 and 10. *Installing the headrest.*

Paper Dispenser (058-611)

Manufactured to accommodate a roll of hygienic table paper (sold separately,) the paper dispenser is mounted to the head end of the table.

Installing the paper dispenser:

1. Raise the Fowler back section of the table completely.
2. Using a 7/16" wrench, remove the two 1/4-20" hex head screws from under one side of the head end of the Fowler back cushion.
3. Position the appropriate paper dispenser mounting bracket on the bottom of the Fowler back cushion as shown below. Ensure the pre-drilled screw holes align with the screw hole from step 2.
4. Using a 7/16" wrench, install the two 1/4-20" hex head screws removed in step 2 through the dispenser mounting bracket and tighten to secure the paper dispenser bracket in place.
5. Repeat steps 1 - 4 for the opposite side.
6. Place a role of paper on the paper dispenser rod and install the rod between the brackets. Press in on either spring-loaded end of the paper dispenser bar in order to slide it into the brackets.
7. Pull the paper over the cushions.
8. Pull unused paper through the cutter strap which mounts at the foot end of the table.
9. After use, cut the paper and dispose of used portions.

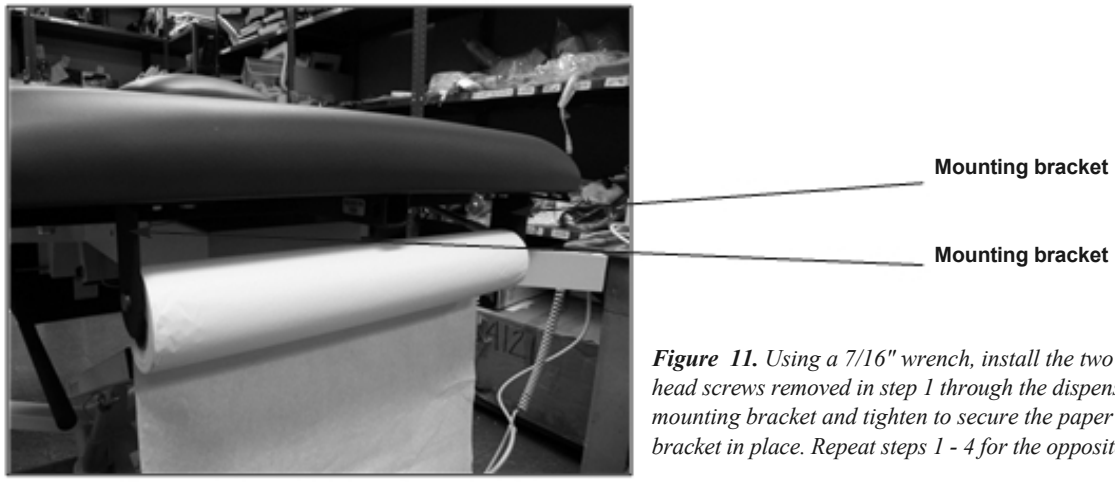


Figure 11. *Using a 7/16" wrench, install the two 1/4-20" hex head screws removed in step 1 through the dispenser mounting bracket and tighten to secure the paper dispenser bracket in place. Repeat steps 1 - 4 for the opposite side.*

Figure 12. *Place a role of paper on the paper dispenser rod and install the rod between the brackets. Press in on either spring-loaded end of the paper dispenser bar in order to slide it into the brackets.*

Retractable Stirrups (058-652)

A set of sturdy retractable Stirrups can be neatly concealed in the table frame beneath the abdominal (seat) cushion. The two stirrups are interchangeable and can be mounted in either stirrup housing.

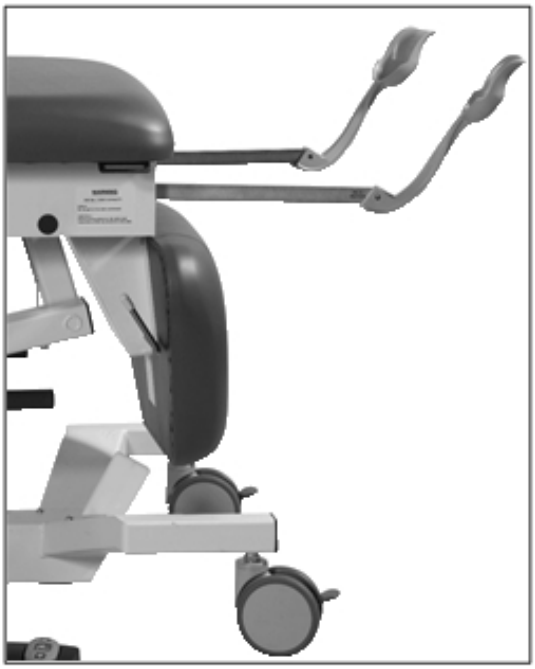
To access the stirrups:

1. Lower the drop-down leg section.
2. Lift up slightly on the stirrups and then slide them fully out from the table frame. The stirrups can be used in various positions and do not have to be fully extended for use. The stirrups also pivot from side to side.
3. Unfold the stirrups' heel cups for use.

To retract the stirrups:

1. Fold the stirrups' heel cups.
2. Lift up slightly on the stirrups and slide them fully back into the table frame.

NOTE: *The stirrups must be fully retracted before raising the drop-down leg section to prevent the stirrups from damaging the cushion.*



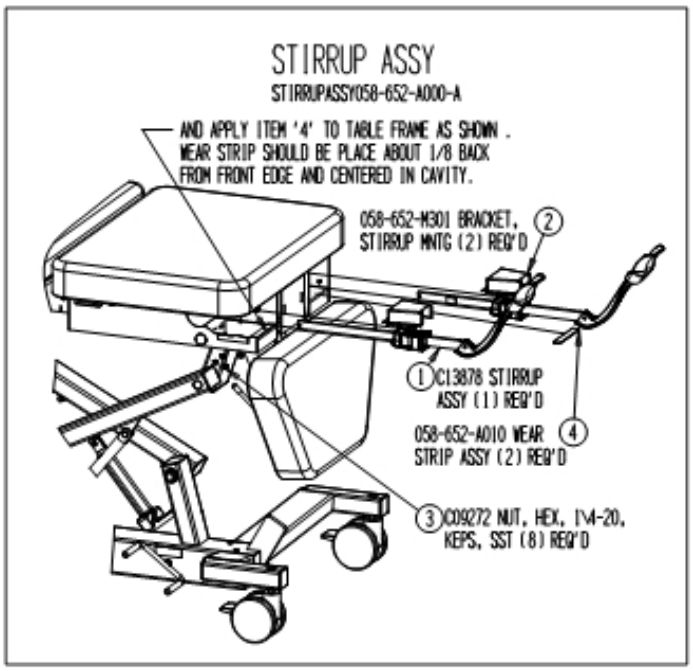


Figure 13 and 14. *Retractable Stirrups.*

I.V. Pole (058-737)

The I.V. pole must be installed on the patient's right side of the table.

Installing the I.V. pole:

1. Using a 7/16" wrench, remove the two 1/4-20" hex head screws from the end of the tabletop frame on the side of the table to which the I.V. pole will be installed.
2. Position the I.V. pole support bracket against the side frame so the two pre-drilled screw holes in the bracket align with the screw holes on the tabletop frame. The I.V. pole should face up and toward the head end of the table.
3. Using a 7/16" wrench, install the two screws removed in step 1 through the I.V. pole mounting bracket. Tighten the screws to secure.
4. Insert the I.V. pole into the I.V. pole mounting bracket. Ensure that the I.V. pole passes through both the top and bottom holes in the mounting bracket to ensure I.V. pole stability.

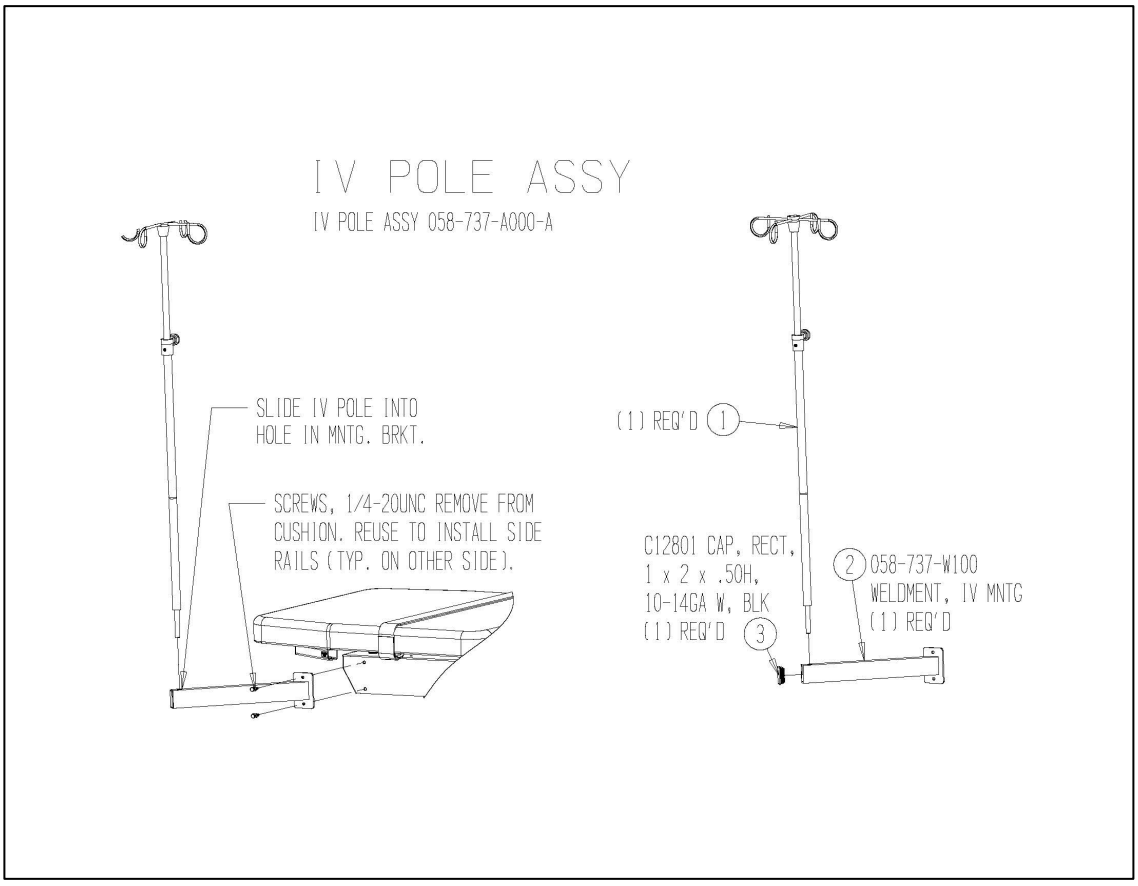


Figure 15. *Installing the I.V. pole.*

APPENDIX A - SPECIFICATIONS

Dimensions:
Overall: 71" l x 30" w (180.3 x 76.2 cm); 35" w (88.9 cm) with side rails
Cardiac Scanning Cutout: 9.5 w x 15.75 l (24.1 x 40 cm)
Drop-down cushion releases from either side of the table.
Sonographer Cutout: 8" w x 14.75" l (20.3 x 37.4 cm) Adjustable sonographer cushion drops down or folds up for maximum access to the patient.
Drop-Down Leg Section: 12.6" l (32 cm)
Motions:
Height Adjustable: 23" to 39" (58.4 to 99 cm)
Trendelenburg: 0˚ to ±15˚
Fowler Back: 0˚ to 80˚ infinitely adjustable
Controls:
Hand Control: Activates height, Trendelenburg motions, Fowler positioning and auto level motions
Foot Control: Activates height, Trendelenburg motions and Fowler positioning
Wheels: 5" (12.7 cm) individual locking swivel casters; central floor-locking system
Tabletop: Three primary sections: torso section features sonographer and patient cutouts with Fowler positioning; center section remains fixed and leg section drops down to 40˚ and 80˚ for stirrup access
Drop-Down Cardiac Scanning Cushion: Release from either side of the table
Adjustable Sonographer Cushion: Drops down or folds up for maximum access to the patient
Mattress: Torso section 2" (5 cm) thick, center and leg sections 3" (8 cm) thick; Naugahyde®, antimicrobial mattress cover with advanced BeautyGard® provides protection against bacteria
Upholstery Color: Graphite
Patient Restraints: One body strap
Finish: Powder coat
Patient Capacity: 500 lb (227 kg); weight tested to four times the patient load rating.
Weight: 350 lb (159 kg)
Power: 115 VAC OR 230 VAC
Warranty: Two years parts and labor
Certifications: ETL and cETL listed to UL60601-1 and CAN/CSA C22.2 No. 601.1-M90 and EN 60601-1 standards.

Intertek

Authorized European Community Representative:

EC REP

Emergo Europe
Molenstraat 15
2513 Bh, The Hague
The Netherlands

APPENDIX B: CONFORMANCE TO STANDARDS

This equipment conforms to the following safety standards:

Standard	*Edition and/or date*
IEC60601-1-2	First edition, 2007

Table 1.1 Safety standards

Accompanying EMC Documents

This medical electrical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

- Portable and mobile RF communications equipment can affect medical electrical equipment.
- Use of accessories, transducers and cables other than those specified, with the exception of accessories, transducers and cables sold by the manufacturer of this equipment, as replacement parts for internal and external components, may result in increased emissions or decreased immunity of the equipment.
- The Ultrasound Table should not be used adjacent to or stacked with other equipment. If the Ultrasound Table is used while positioned adjacent to other equipment, it should be observed to verify normal operation in the configuration in which it will be used.

List of Cable Accessories

The list in Table 1.2 includes all accessory cables supplied with the Ultrasound Table for which the manufacturer of this equipment claims compliance to EN 60601-1-2 when used with the Ultrasound Table.

Cable description	*Part no.*	*Cable length*
N/A		

Table 1.2 Ultrasound Table cables

Declaration of Conformity

Emissions

Manufacturer's declaration electromagnetic emissions		
The Ultrasound Table is intended for use in the electromagnetic environment specified below. The customer or the user of the Ultrasound Table should assure that it is used in such an environment		
Emission test	***Compliance***	***Electromagnetic environment***
RF emissions CISPR 11	Group 1	The Ultrasound Table generates RF energy only for its internal functions. Therefore, its RF emission is very low and is not likely to cause any interference in nearby electronic equipment
RF emissions CISPR 11	Class B	The Ultrasound Table is suitable for use in all establishments including domestic establishments and those directly connected to the public low-voltage power supply network supplying buildings used for domestic purposes.

Immunity

Manufacturer's declaration electromagnetic immunity			
The Ultrasound Table is intended for use in the electromagnetic environment specified below. The customer or the user of the Ultrasound Table should assure that it is used in such an environment.			
Immunity test	***IEC 60601-1-2 Test level***	***IEC 60601-1-2 Compliance level***	***Electromagnetic environment – guidance***
Electrostatic discharge (ESD) IEC 61000-4-2	± 4 kV contact ± 8 kV air	Contact ± 4 kV Air ± 8 kV	Floor should be wood, concrete or ceramic tiles. If floor is covered with synthetic material, the relative humidity should be at least 30%

Immunity test	*IEC 60601-1-2 Test level*	*IEC 60601-1-2 Compliance level*	*Electromagnetic environment – guidance*
Conducted RF IEC 61000-4-6	3 Vrms, 150 KHz to 80 MHz	3 Vrms, 150KHz to 80 MHz	Portable and mobile RF communications equipment should be used no closer to any part of the Ultrasound Table, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = 1.2\sqrt{P}$ 150 KHz to 80 MHz $d = 1.2\sqrt{P}$ 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watt (W) according to the transmitter manufacturer, and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	3 V/m, 80 MHz to2.5 GHz	3 V/m, 80 MHz to2.5 GHz	

Note 1. UT is the a.c. mains voltage prior to application of the test level.

Note 2. At 80 MHz and 800 MHz, the higher frequency range applies.

Note 3. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflections from structures, objects and people

[a] Field strength from mixed transmitters, such as base stations for radio telephones and land mobile radios, amateur radio, AM or FM broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Ultrasound Table is used exceeds the applicable RF compliance levels above, the Ultrasound Table should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Ultrasound Table.

[b] Over the frequency range 150 KHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended Separation Distances

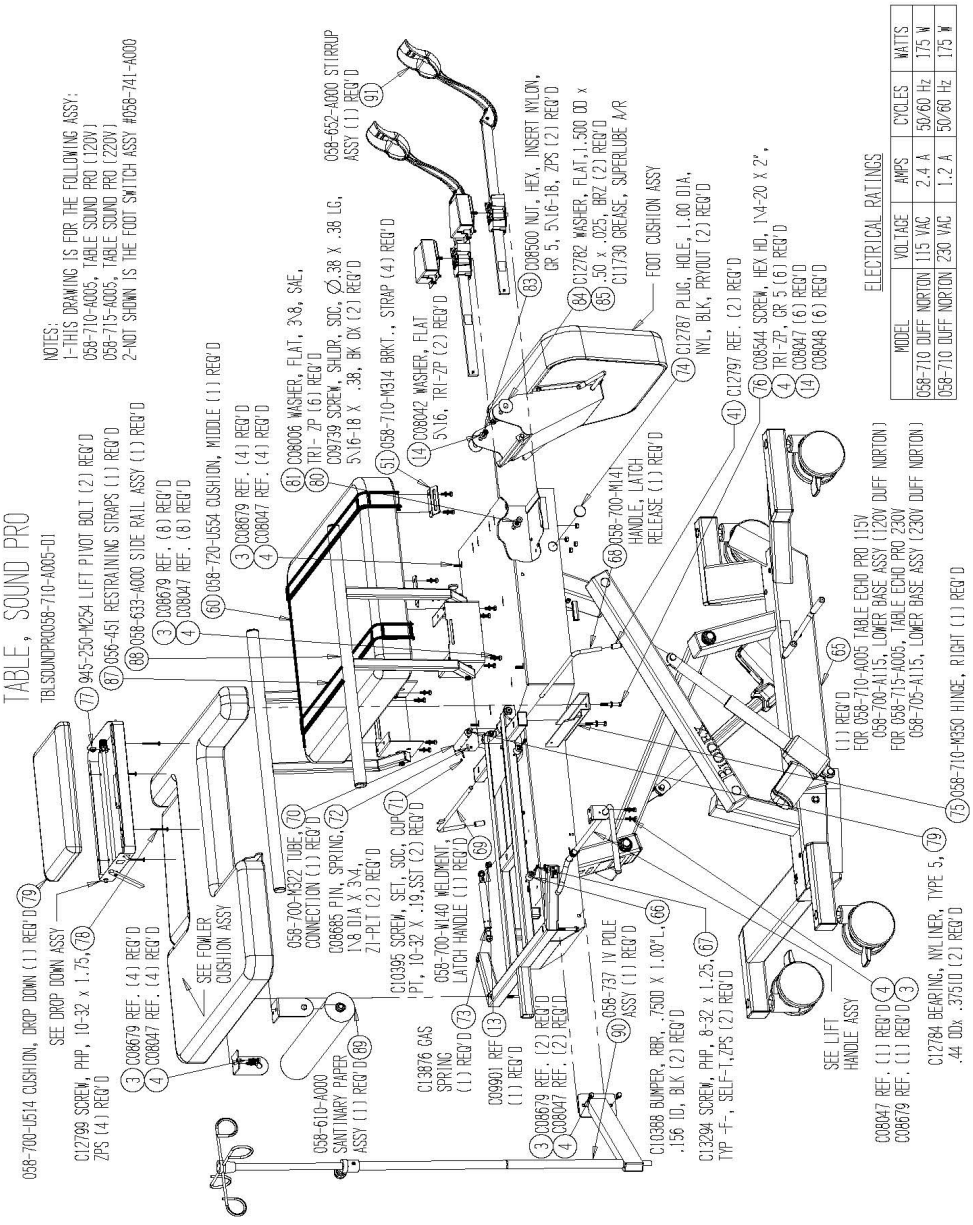
Recommended separation distances between portable and mobile RF communications equipment and the Ultrasound Table. Table 6			
The Ultrasound Table is intended for use in the electromagnetic environment in which radiated RF disturbance are controlled. The customer or the user of the Ultrasound Table can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the Ultrasound Table as recommended below, according to the maximum output power of the communication equipment.			
Rated maximum output power of transmitter [W]	***Separation distance according to frequency of transmitter [m]***		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. **Note 1**. At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. **Note 2**. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Operating Temperature

Do not expose the equipment to a temperature change of more than 5° F (3° C) per hour.

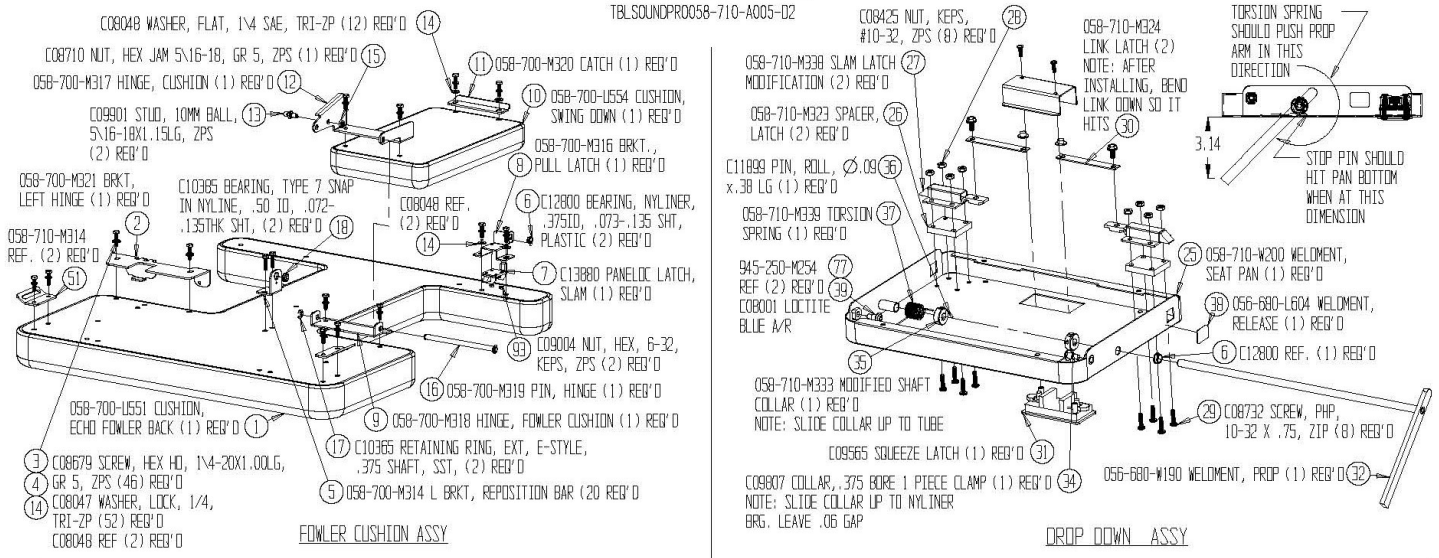
Limits of low and high operating temperature ranges are 59° to 86° F (15° C to 30° C).

APPENDIX C –
PARTS AND ASSEMBLY ILLUSTRATIONS



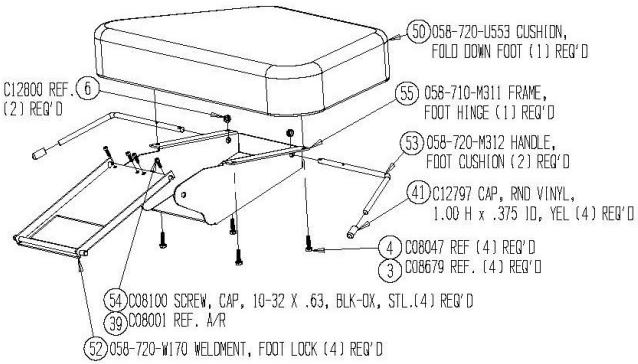
TABLE, SOUND PRO

TBLSOUNDPRO058-710-A005-02

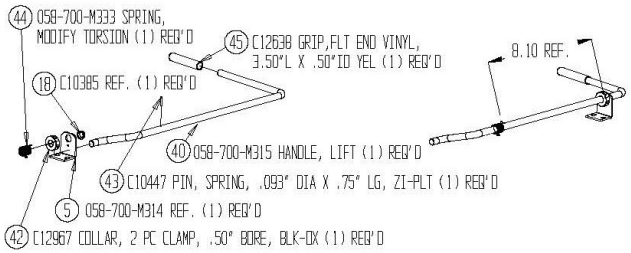


FOWLER CUSHION ASSY

DROP DOWN ASSY



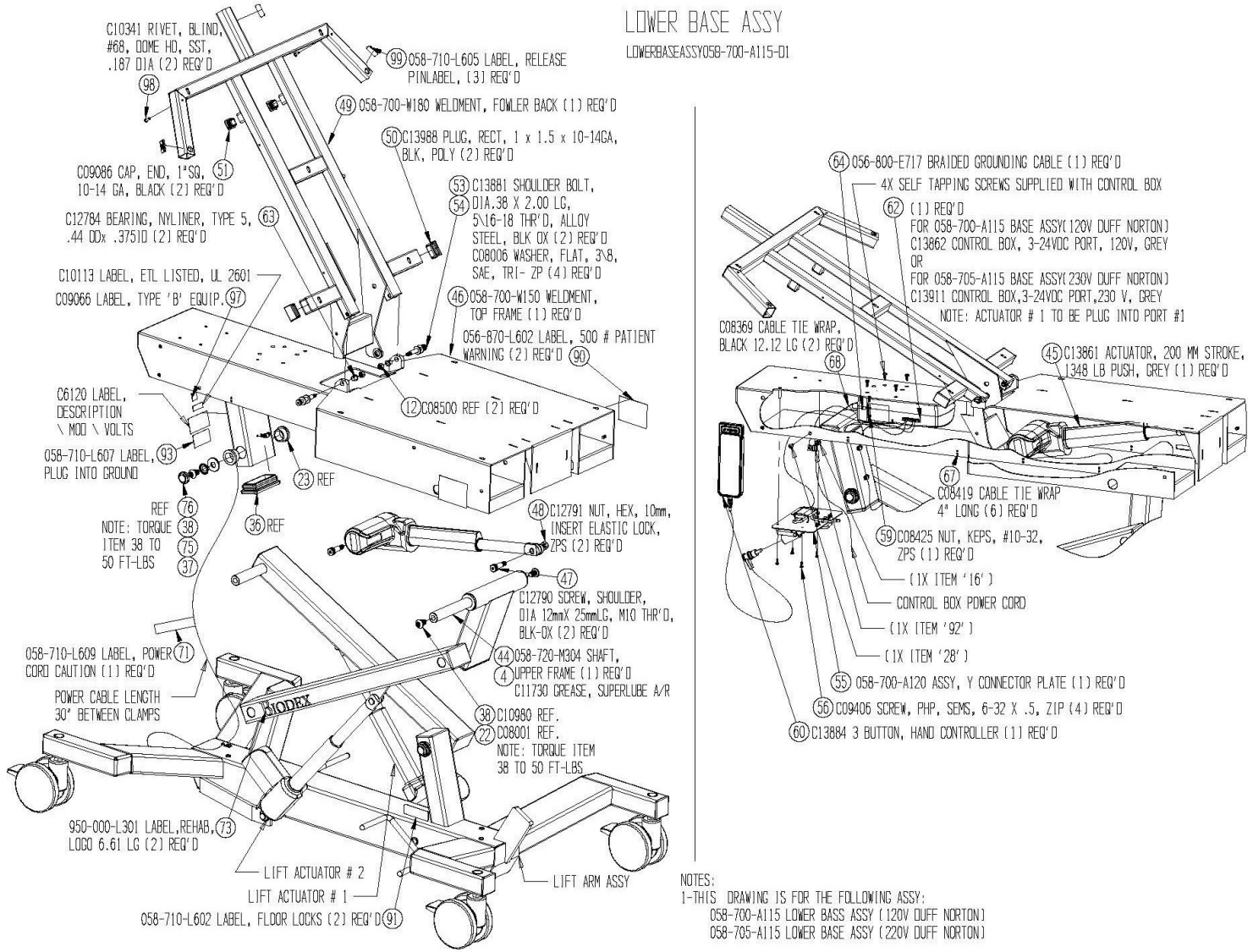
FOLD DOWN FOOT CUSHION ASSY



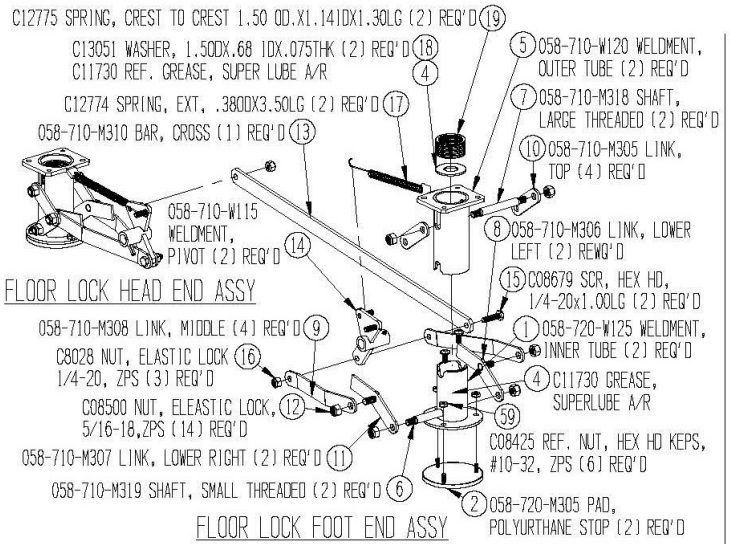
LIFT HANDLE ASSY

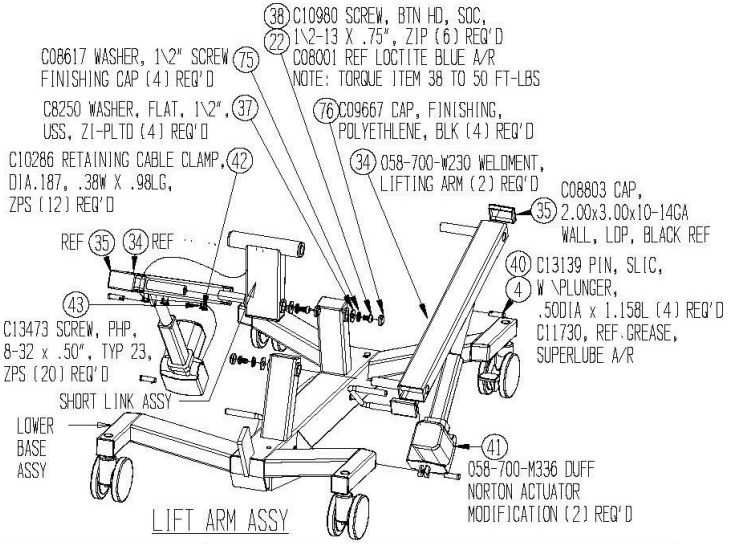
LOWER BASE ASSY

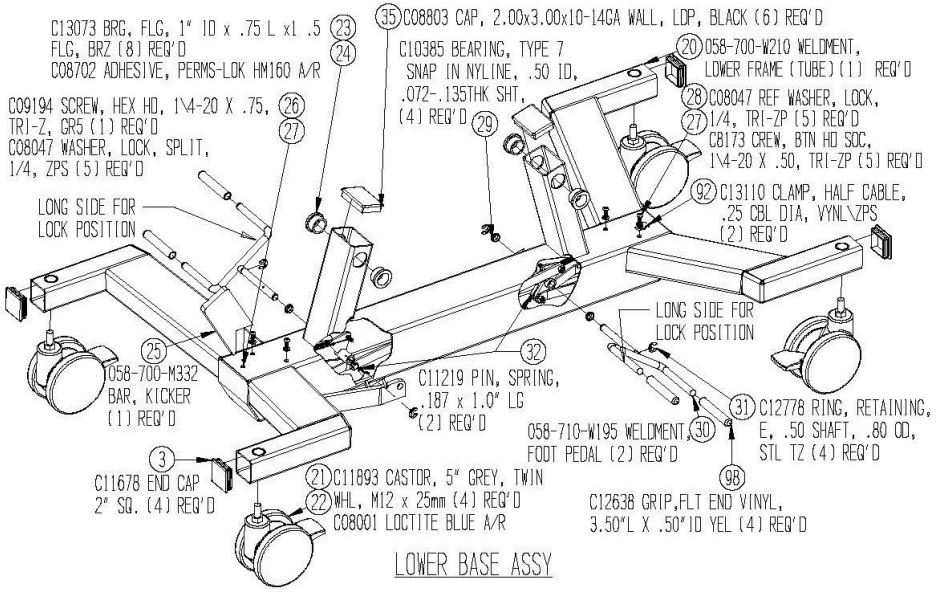
LOWERBASEASSY058-700-A115-01

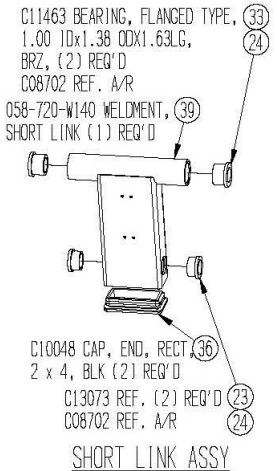


NOTES:
1-THIS DRAWING IS FOR THE FOLLOWING ASSY:
058-700-A115 LOWER BASS ASSY (120V DUFF NORTON)
058-705-A115 LOWER BASE ASSY (220V DUFF NORTON)







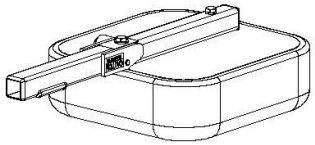


LOWER BASE ASSY

LOWERBASEASSY058-700-A115-D2

HEAD REST ASSY

HEADRESTASSY058-738-A000-A



14 C08048 WASHER, FLAT, 1\4 SAE, TRI-ZP (1) REQ'D

058-738-M303 GUARD, PINCH (1) REQ'D 15

11 C08544 SCREW, HEX HD, 1\4-20 X 2",
12 TRI-ZP, GR 5 (2) REQ'D
C08047 WASHER, LOCK, 1/4, TRI-ZP
(1) REQ'D

058-710-L605 LABEL, 16
RELEASE PIN (1) REQ'D

C11730 GREASE, 18
SUPERLUBE A/R

3 C09086 CAP, END, 1"SQ,
10-14 GA, BLACK (1) REQ'D

058-738-M302 PIN, PUSH (1) REQ'D 13

058-700-L620 LABEL CAUTION 17
DO NOT SIT ON (2) REQ'D

1 058-738-M301 TUBE,
CUSHION (1) REQ'D

058-738-W100 WELDMENT, 4
RECEIVING TUBE (1) REQ'D

2 C13883 SNAP BUTTON ∅.365 BUT X .370
HT, .03 THK x .375W , ZPS (1) REQ'D

058-736-M302 6
BLOCK, CORNER
(1) REQ'D

5 C08603 SNAP BUTTON,
.375 RAMP DIA. (1) REQ'D

10 058-738-U501 CUSHION,
HEAD (1) REQ'D

C13882 REF 8
(2) REQ'D

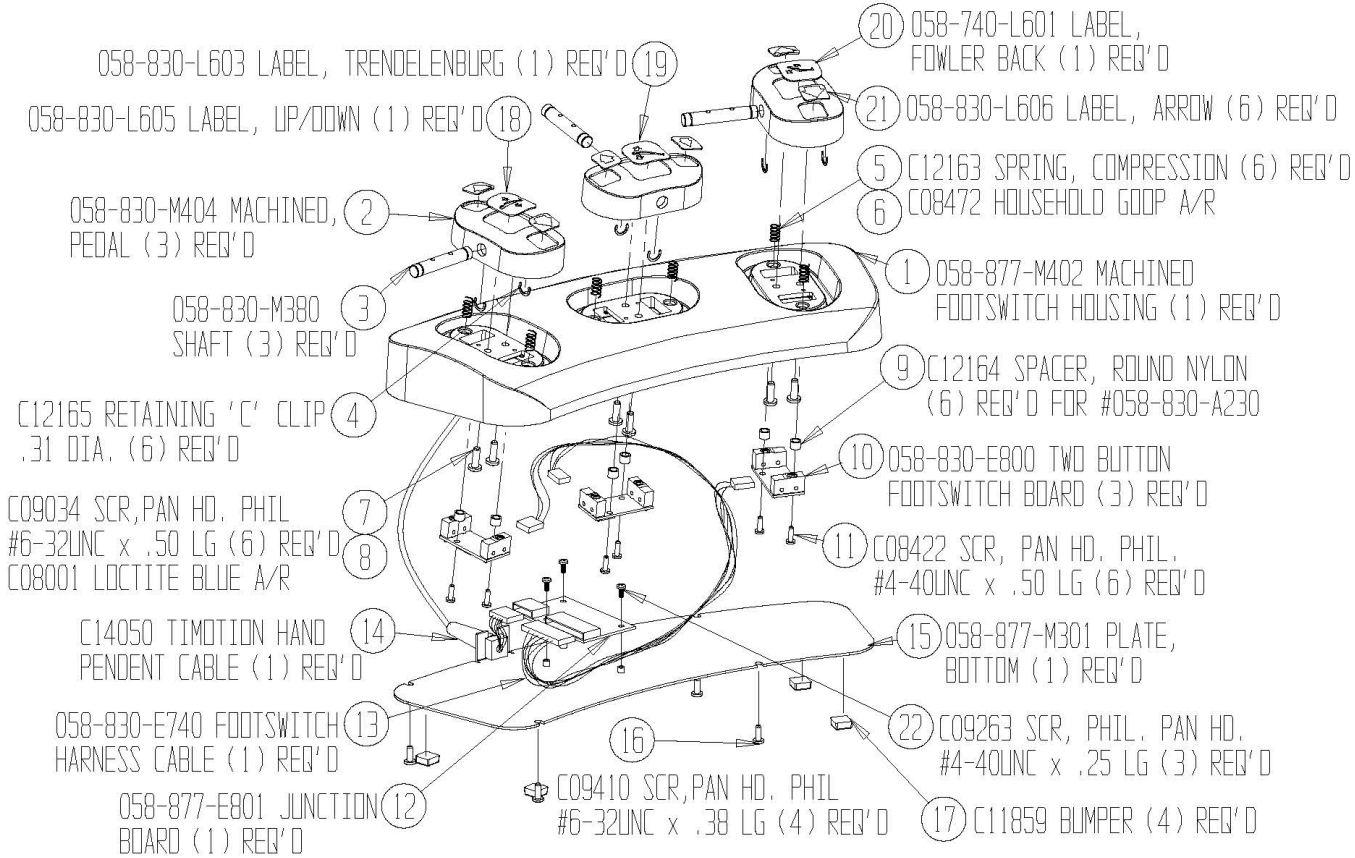
7 C11166 SCREW, SET,CUP PT,
10-32 X 1.0", SST (2) REQ'D

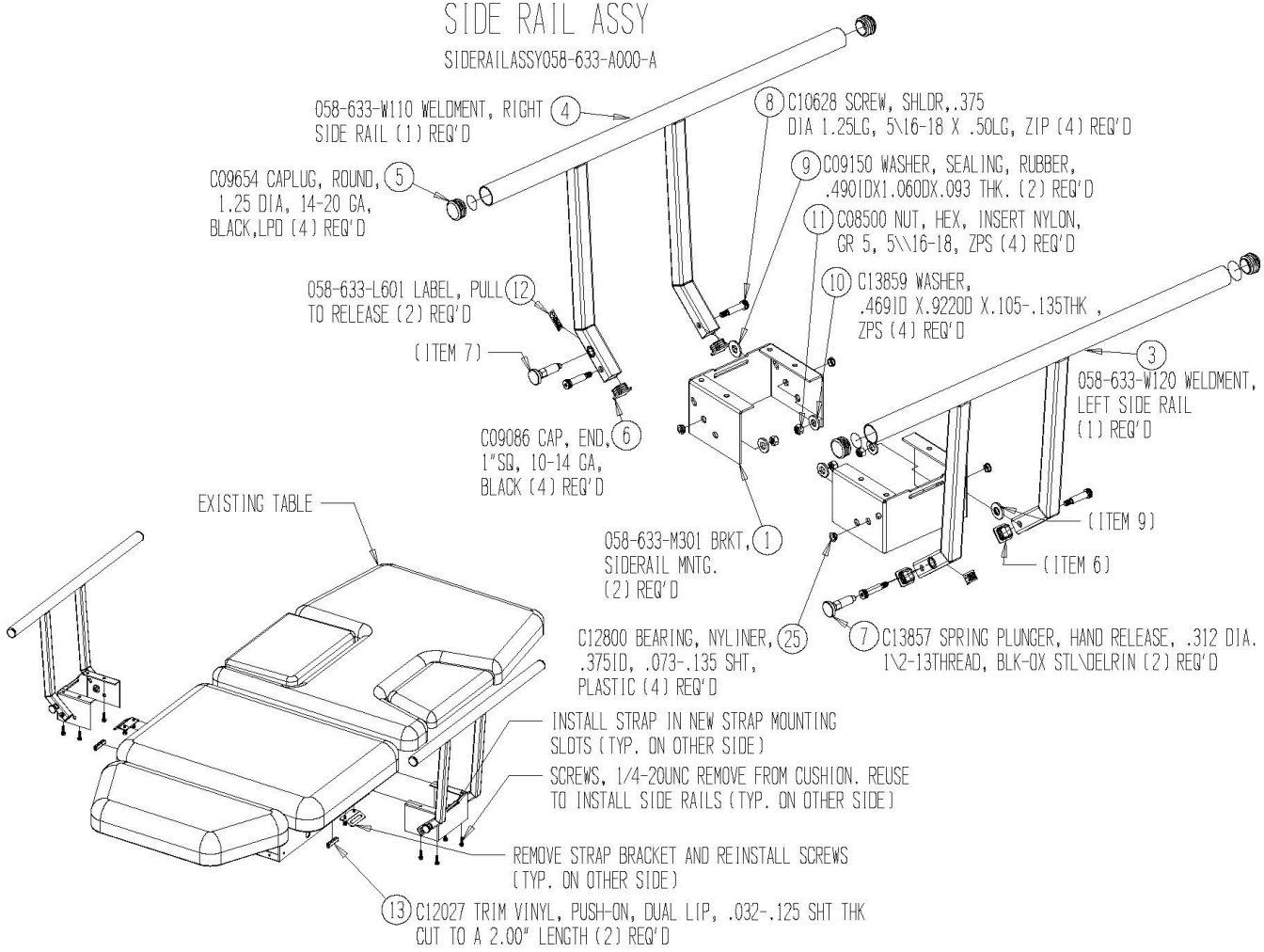
9 C11822 PIN, DOWEL,.25D X 1.50LG,
HARDENED STL (1) REQ'D

NOTE:
ADJUST SET SCREWS SO THAT CORNER BLOCK IS POSITIONED
SO THAT IT SLIDES INTO RECEIVING TUBE ON THE TABLE
FOWLER BACK FRAME WITH MIN. AMOUNT OF PLAY

FOOT SWITCH ASSY FOR TIMOTION ACTUATORS

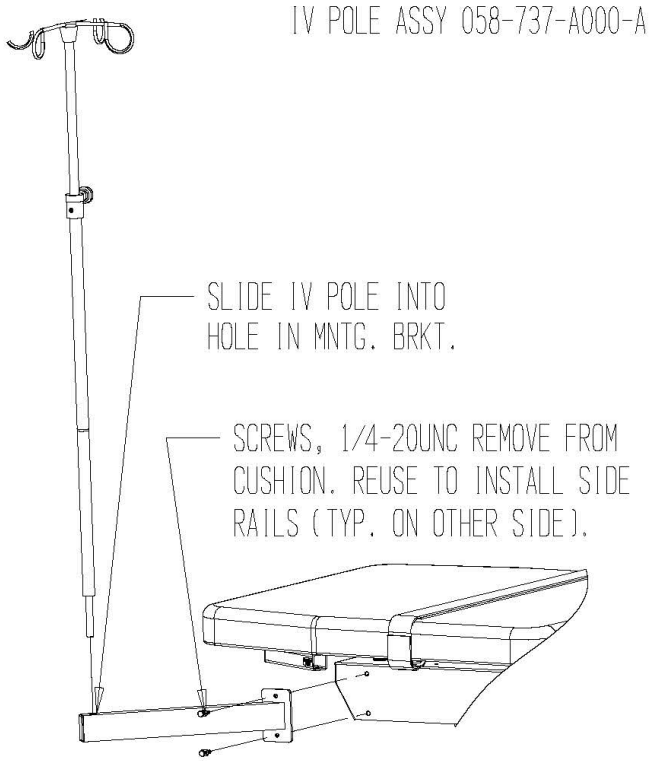
FOOTSWITCHASSY058-741-A000-A

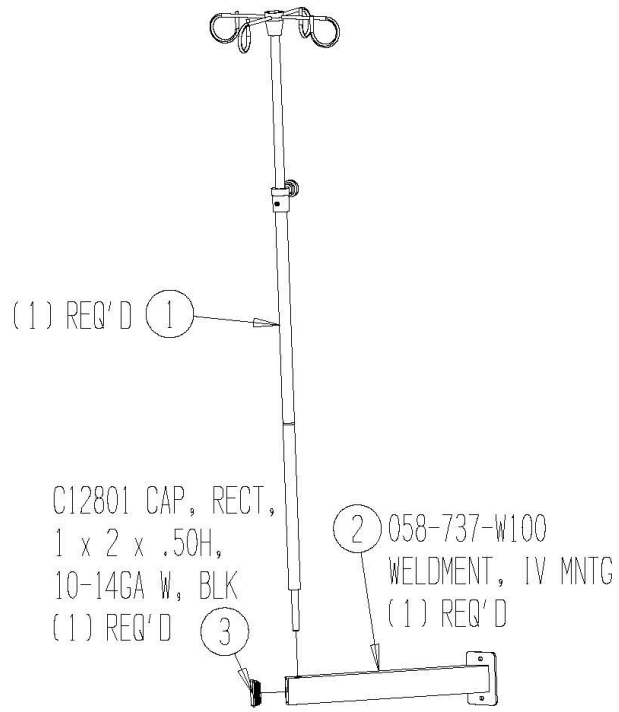


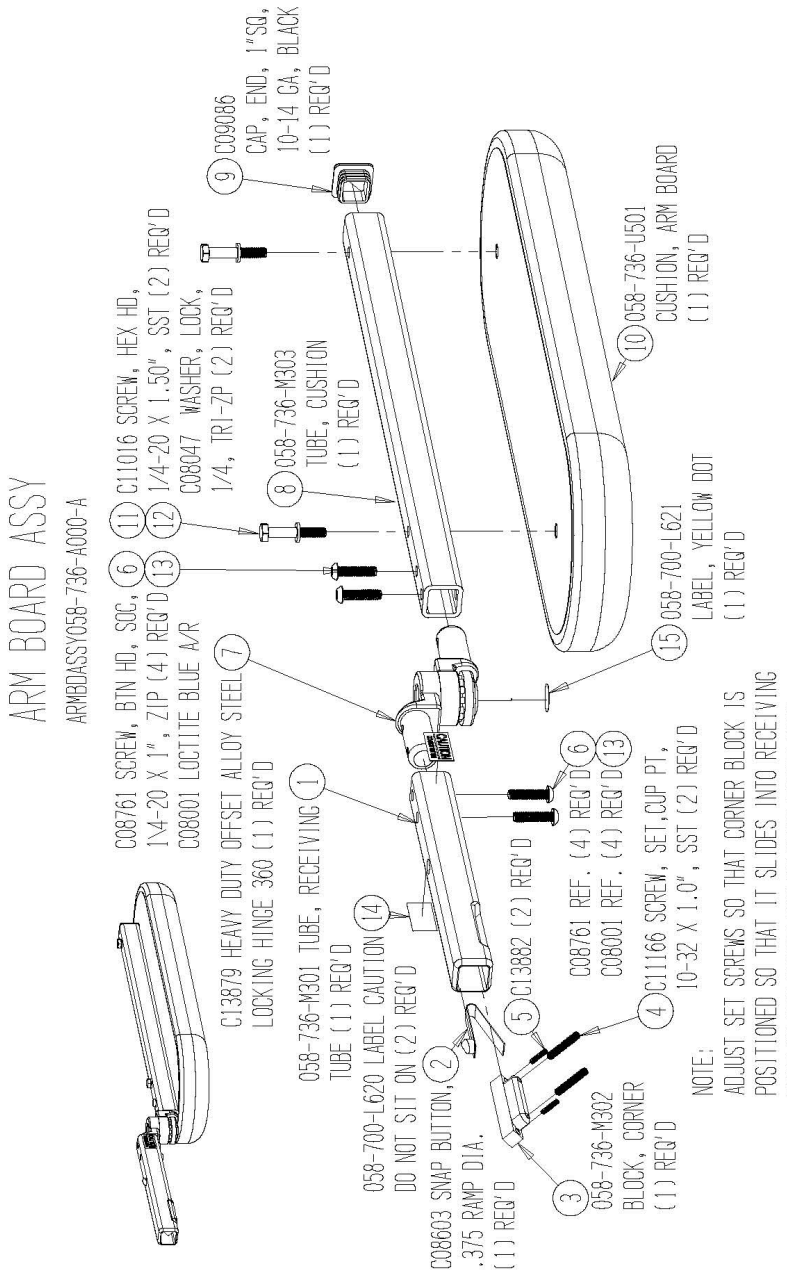

SIDE RAIL ASSY
SIDERAILASSY058-633-A000-A
058-633-W110 WELDMENT, RIGHT SIDE RAIL (1) REQ'D
4
C09654 CAPLUG, ROUND, 1.25 DIA, 14-20 GA, BLACK,LPD (4) REQ'D
5
058-633-L601 LABEL, PULL TO RELEASE (2) REQ'D
12
(ITEM 7)
C09086 CAP, END, 1"SQ, 10-14 GA, BLACK (4) REQ'D
6
EXISTING TABLE
058-633-M301 BRKT, SIDERAIL MNTG. (2) REQ'D
1
C12800 BEARING, NYLINER, .375ID, .073-.135 SHT, PLASTIC (4) REQ'D
25
INSTALL STRAP IN NEW STRAP MOUNTING SLOTS (TYP. ON OTHER SIDE)
SCREWS, 1/4-20UNC REMOVE FROM CUSHION. REUSE TO INSTALL SIDE RAILS (TYP. ON OTHER SIDE)
REMOVE STRAP BRACKET AND REINSTALL SCREWS (TYP. ON OTHER SIDE)
13
C12027 TRIM VINYL, PUSH-ON, DUAL LIP, .032-.125 SHT THK CUT TO A 2.00" LENGTH (2) REQ'D
8
C10628 SCREW, SHLDR,.375 DIA 1.25LG, 5\16-18 X .50LG, ZIP (4) REQ'D
9
C09150 WASHER, SEALING, RUBBER, .490IDX1.060DX.093 THK. (2) REQ'D
11
C08500 NUT, HEX, INSERT NYLON, GR 5, 5\\16-18, ZPS (4) REQ'D
10
C13859 WASHER, .469ID X.922OD X.105-.135THK , ZPS (4) REQ'D
3
058-633-W120 WELDMENT, LEFT SIDE RAIL (1) REQ'D
(ITEM 9)
(ITEM 6)
7
C13857 SPRING PLUNGER, HAND RELEASE, .312 DIA. 1\2-13THREAD, BLK-OX STL\DELRIN (2) REQ'D

IV POLE ASSY

IV POLE ASSY 058-737-A000-A






ARM BOARD ASSY
ARMBDASSY058-736-A000-A
C08761 SCREW, BTN HD, SOC, 1\4-20 X 1", ZIP (4) REQ'D
C08001 LOCTITE BLUE A/R
C13879 HEAVY DUTY OFFSET ALLOY STEEL LOCKING HINGE 360 (1) REQ'D
058-736-M301 TUBE, RECEIVING TUBE (1) REQ'D
058-700-L620 LABEL CAUTION DO NOT SIT ON (2) REQ'D
C08603 SNAP BUTTON, .375 RAMP DIA. (1) REQ'D
058-736-M302 BLOCK, CORNER (1) REQ'D
C13882 (2) REQ'D
C08761 REF. (4) REQ'D
C08001 REF. (4) REQ'D
C111166 SCREW, SET, CUP PT, 10-32 X 1.0", SST (2) REQ'D
NOTE;
ADJUST SET SCREWS SO THAT CORNER BLOCK IS POSITIONED SO THAT IT SLIDES INTO RECEIVING TUBE ON THE TABLE FOWLER BACK FRAME WITH MIN. AMOUNT OF PLAY
C111016 SCREW, HEX HD, 1/4-20 X 1.50", SST (2) REQ'D
C08047 WASHER, LOCK, 1/4, TRI-ZP (2) REQ'D
058-736-M303 TUBE, CUSHION (1) REQ'D
C09086 CAP, END, 1"SQ, 10-14 GA, BLACK (1) REQ'D
058-736-U501 CUSHION, ARM BOARD (1) REQ'D
058-700-L621 LABEL, YELLOW DOT (1) REQ'D

STIRRUP ASSY

STIRRUPASSY058-652-A000-A