

1.0 INTRODUCTION

1.1 General Description

This manual describes the use, maintenance, and repair of the Modular Table System (MTS) 5803 Advance Control I-Base, DC (5803 Base). It is the primary component of the system designed to support patients for a variety of surgical procedures. There are five procedure-specific Table Tops: Jackson Spinal, Imaging, Trauma, Endourology and Maximum Access™ Lateral Top available for use on the MTS Base.

1.2 Specifications

- Maximum patient weight: Table Top specific but not to exceed 500 lbs
- Height Range 34 - 48 inches for Orthopedic Top
- Trendelenburg Range 10° ±3°
- Powered Tilt Range 25° ±3°
- Power Input 120 VAC at 60 Hz or 230 VAC at 50 Hz and internal battery power
- Compatible Tabletops All MTS tops equipped with gimbals.
- Overall Length 120 inches
- Retracted Length 73.5 inches
- Width 30 inches
- Maximum tilt torque 55 ft-lb
- Maximum brake torque 95 ft-lb
- Duty Cycle 4% or 2.5 minutes continuously per hour

1.3 Shipping

The 5803 Base must be shipped in a manner that prevents damage to its structural elements, caster wheels, electronics, and operating controls. Contact with solid objects in the environment must be prevented during shipment and storage, except at the four Casters. Banding for lateral constraint is to be limited to the base structure. Additionally, banding of the Head End Assembly to prevent movement of the trolley is necessary. It is not necessary to fully crate the 5803 Base if it is assured that no impact with foreign solid objects will be made during transit. The 5803 Base is to be shipped in an environment within the following limits:

- Ambient temperature -20° C to +50° C (32°F & 120°F)
- Relative humidity from 10% to 100%, including condensation
- Atmospheric pressure from 50 to 110 kPa.

1.4 Storage

When not in use, store in a clean, dry environment with temperature between 32°F and 120°F. If the Battery Status Light is red, it is recommended that the 5803 Base be stored with the power cord plugged into a proper AC receptacle with the ON/OFF Power-switch "ON" for a minimum of three (3) hours to ensure that the batteries are fully charged. If the red Battery Status lamp remains illuminated after this time, do not operate the table under battery power and call for service. Prior to use it is also recommended that the 5803 Base be plugged into a proper AC receptacle with the ON/OFF switch in the "ON" position for a minimum of three (3) hours to ensure that the batteries are fully charged.

2.0 CONTROLS IDENTIFICATION

2.1 Major Component Identification

The 5803 Base is designed to hold a Table Top that will provide a patient support that is free of any obstructions that might compete for space with the C-Arm. The major components of the 5803 Advanced Control Base are identified in the following figures.

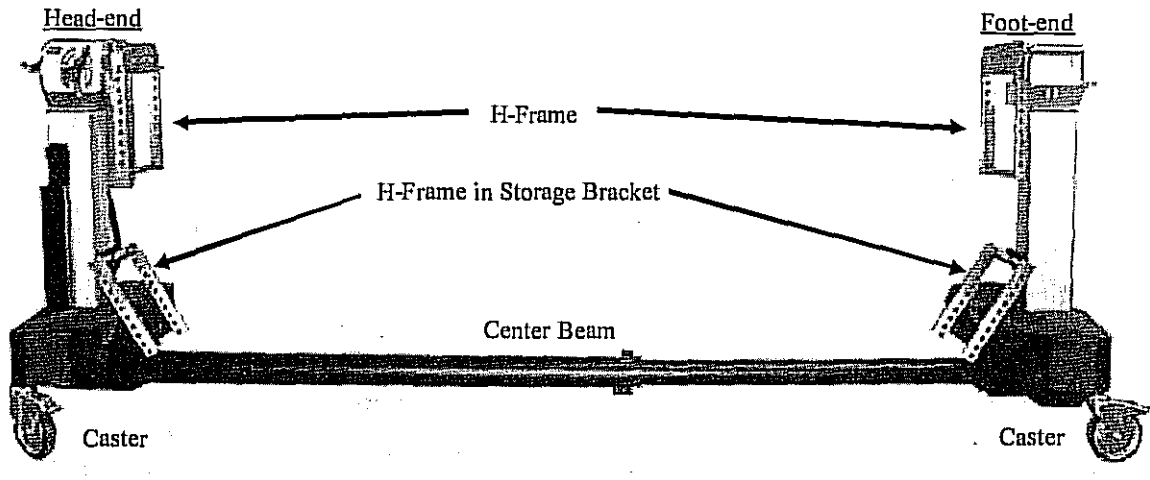


Figure 1- 5803 Base - Side View

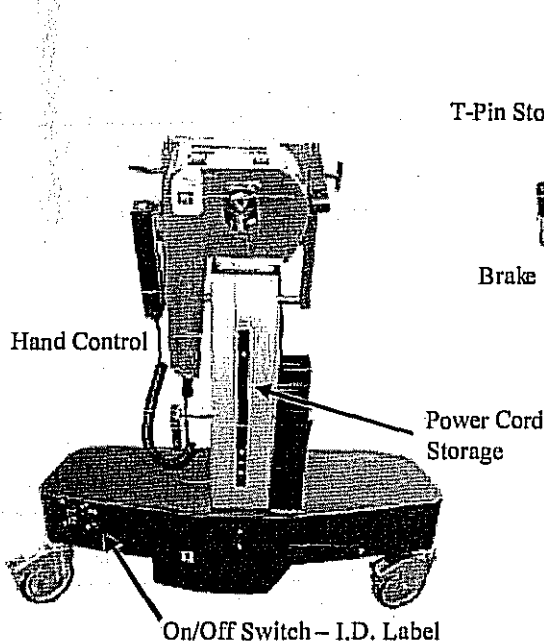


Figure 2 - 5803 Base - Head-end View

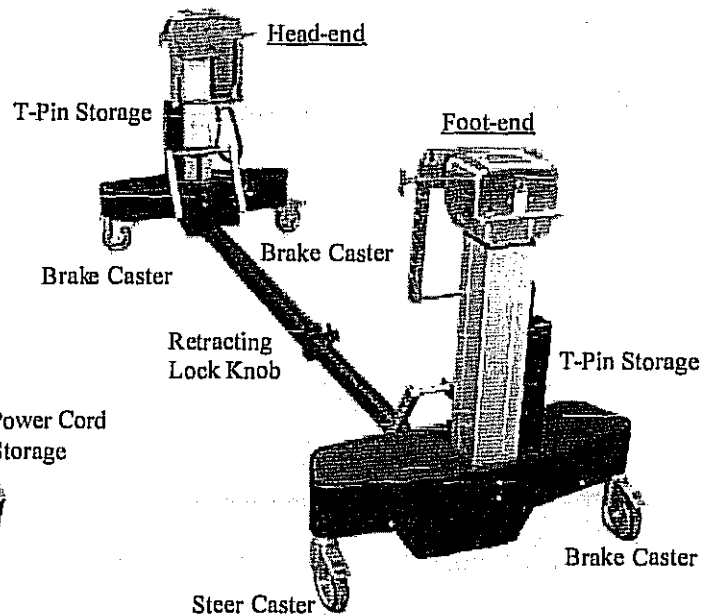


Figure 3 - 5803 Base - View from Foot-end

2.2 Base Orientation

The control end of the Base is considered the Head End, and the opposite end is the Foot End. The right side of the Base is the side to the operator's right when standing at the Head End looking toward the Foot End Base. The general nomenclature and orientation of the Table is shown in Figure 1. Refer to the appropriate User Guide supplied with each Table Top for Table Top Component Identification and more detailed information about the use of each Table Top.

7.0 THE ELECTRICAL SYSTEM

7.1 Description

The 5803 Base uses an external AC power source or internal, rechargeable, battery power for operation. It uses AC power when plugged into a proper AC receptacle and the ON/OFF Power-switch is in the "ON" position. When not plugged in, or AC power is lost, the 5803 Base will automatically switch over to internal battery power. The batteries are automatically recharged whenever the 5803 Base is plugged into an AC power source and the ON/OFF power-switch is in the "ON" position. Located next to the ON/OFF power-switch on the Head End base (see Figure 4) is the Power On, Fault, and Battery Status lights.

7.2 Power Cord

The table is equipped with a standard EIC power cord with the appropriate 120 VAC hospital grade connector (230 VAC versions do not include the power connector).

7.3 ON/OFF Power/Circuit-Breaker Switch

An ON/OFF Main Power-switch is mounted at the head end of the base. This switch also serves as a circuit breaker and in the event of an overload condition this switch will trip off. To reset, push to the "OFF" position and then the "ON" position. Next to it a green "Power On" light illuminates indicating that the table power is on.

NOTE: Determine the source of the overload prior to resetting this switch.

7.4 Power ON / Fault / Battery Status Lights

Next to the ON/OFF Power-switch is a small panel of three lights:

- Green = Power ON (AC power or battery power).
- Red = Fault Light (Electrical fault, determine source of fault prior to using table).
- White = Battery Status.
 - When illuminated Green = installed properly and charged
 - When illuminated Red = recharging required

7.5 Battery Recharging

The batteries in the 5803 Base are automatically charged whenever the table is in an operational condition (plugged into AC power source and ON/OFF Power-switch in the "ON" position). No additional procedures are needed to assure maintenance of the batteries. The "Battery Status" lamp, next to the ON/OFF Power-switch on the head end base casting, indicates battery charge condition. If lit, the red "Battery Status" lamp indicates that the batteries require recharging and the table must be plugged into an AC outlet. If the "Battery Status" lamp remains illuminated red after about three (3) hours, do not attempt to operate the base under battery power and call for service (the 5803 Base should remain functional under AC power). It is recommended that, prior to use, the 5803 Base be plugged into a proper AC receptacle with the ON/OFF switch in the "ON" position for a minimum of three (3) hours to ensure that the batteries are fully charged.

9.4 Batteries



WARNING

Improperly installed batteries can leak, causing equipment damage or injury. See photo below to assure correct installation of replacement batteries.



AVERTISSANT

Les piles incorrectement installées peuvent fuir, les dommages d'équipement causant ou la blessure. Voir que la photo assure l'installation exacte de piles de remplacement.

- Rechargeable lead-acid batteries contain toxic materials. Batteries should be fully discharged prior to handling, or the terminals should be isolated to prevent accidental discharge.
- Batteries contain sulfuric acid. In the event of a leak in the battery or fire, dilute spilled fluid with water. In case of skin contact, wash areas with water. In the event of eye contact, flush eyes with water for 15 minutes and consult a physician immediately.
- Batteries should only be replaced with OSI approved parts. Contact OSI to obtain correct replacement batteries.
- Incorrectly connected batteries can cause damage to equipment or injury. Bridging (shorting) of battery terminals can cause explosion of the battery or fire.
- Do not attempt to connect AC power to the 5803 Base until correct battery connection is confirmed.
- Always dispose of batteries properly. Do not incinerate batteries. Do not place rechargeable 12V batteries into a metal trashcan, toolbox, drawer or parts bin.
- Always take the following precautions when removing the battery compartment covers:
 1. Remove metal jewelry and wristwatches when in proximity to batteries.
 2. Always cover at least one terminal of each battery with insulating material if connectors are removed.
 3. Use caution when employing metal tools in proximity to batteries. Metal tools create circuit bridges (electrical shorts) upon contact. When possible, use tools with insulated handles and ends.
 4. Never place anything on top of batteries, whether batteries are mounted or removed from product.

Charging and Inspection:

Charge for minimum three (3) hours (Power Cord plugged into power source and ON/OFF Power-switch "ON"). If battery fails to hold a charge it should be replaced. Replace only with identical type and size battery. Replace both batteries at the same time. Batteries should be replaced once every five (5) years. Whenever the battery cover is opened, check battery for signs of corrosion. Battery terminals should be clean and free from corrosion, oil, grease, dirt, or other contaminants.

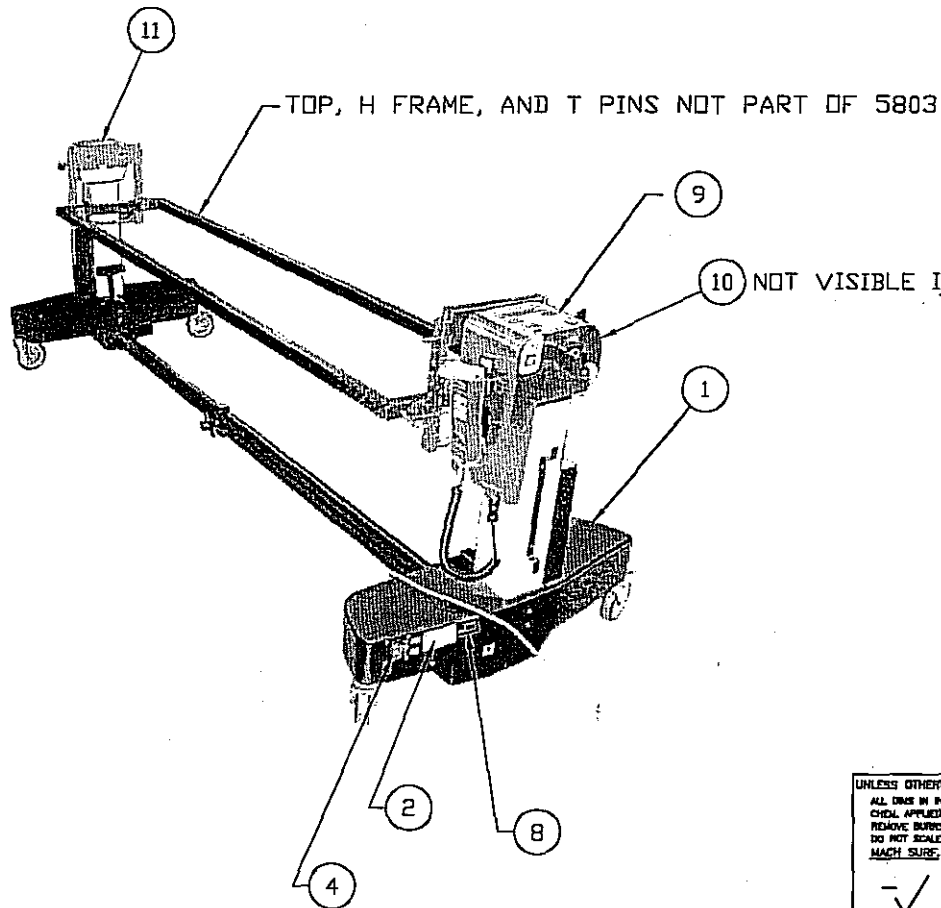
Battery Type: Gel-cell LED acid batteries, 12 Volt, 12 Amp-hour rating.

Battery Size: 150mm long, 98mm wide, 100mm deep.

Battery OSI ordering number: NV0801

PACKAGING REQUIREMENTS: INDIVIDUAL PACKAGE TO PREVENT HANDLING & SHIPPING DAMAGE
 BULK PACK SPECIALTY PACKAGE LABEL

NOTES: UNLESS OTHERWISE SPECIFIED
 1. PACKAGE IN CRATE, ITEM 7



REVISIONS					
REV	ZONE	DESCRIPTION	DATE	DWN	APP
A	ALL	RELEASE TO PRODUCTION (ECN 04005)	1/9/04	DMH	RB

ITEM	PART NO.	DESCRIPTION	QTY
11	NP1612	WARNING LABEL, LOCKING BARS	1
10	NP1610	WARNING LABEL, 180° ROTATION LOCK	1
9	NP1609	WARNING LABEL, ROTATION SAFETY LOCK	1
8	NP1560	ETL LISTED TABLE	1
7	DS-42	5803 PALLET, 42 X 115.5	1
6	NW0422	MAINTENANCE MANUAL FOR 5803	3
5	NW0411	USER GUIDE MANUAL FOR 5803	3
4	NV0835	CIRCUIT BREAKER, 220V, 1.2A	1
3	-	-	-
2	NP1823	BASE SERIAL NO LABEL FOR 5803I	1
1	5803-5	SUB-ASSY, ADV. CONTROL I-BASE, DC	1

PARTS LIST			
UNLESS OTHERWISE SPECIFIED: ALL DIMS IN INCHES INCLUDING CHDL APPLIED/PLATED FINISH. REMOVE BURRS & SHARP EDGES. DO NOT SCALE DRAWING. MACH SURF. TOLERANCES X=±.030 Y=±.010 Z=±.005 ANGLES ±1°		APPROVALS DRAWN BY: R. BAKER RB ENGR: R. BAKER RB CHKD:	
CONFIDENTIAL THIS DOCUMENT SHALL NOT BE REPRODUCED, NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY ORTHOPEDIC SYSTEMS INC.		DATE: 10-1-03 01-16-04 ECN NO.: 04005	
MATERIAL: SEE PARTS LIST		TITLE: ADVANCED CONTROL I-BASE, DC, INTERNATIONAL	
SCALE: NONE		SHEET 1 OF 1	
SIZE B		DWG NO.: 5803I	
REV A		APP RB	

5803 ASSEMBLY AND INSPECTION CHECKLIST	MPI 177
ADDITIONAL SPECIFICATION OR DOCUMENTS REQUIRED:	YES

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