

SERVICE MANUAL

Long Term Care Overbed Table From Hill-Rom®



Product No. P633

Long Term Care Overbed Table Service Manual

Revisions

Revision Letter	Pages Affected	Date
Original Issue		November, 1996

man144

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Chapter 1

Introduction

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Purpose of this Manual

This manual provides the information required for Hill-Rom Long Term Care Overbed Table normal operation and maintenance. It also includes a complete parts list for ordering replacement components. The parts list is located in chapter 2.

Who Should Use this Manual

This manual is intended to be used by facility authorized maintenance personnel only. Failure to observe this restriction can result in serious damage to material and/or severe injury to people.

Organization Of Manual

This service manual contains two chapters.

Chapter 1: Introduction

You are currently reading chapter 1. This chapter defines the manual's purpose and who should use the information in the manual. It also describes the manual's organization and explains the various typographical conventions used throughout the manual. Also included is an introduction to the product, specifications, model identification, preventive maintenance, and procedures for removal, replacement, and adjustment.

Chapter 2: Parts List

Chapter 2 contains Hill-Rom's warranty, replacement part ordering procedure, exchange policy, and illustrated parts lists.

Typographical Conventions Used in this Manual

This manual contains different typographical conventions designed to enhance readability and understanding of its content.

- Standard text—used for standard text throughout the manual.
- **Boldface text**—emphasizes a word or phrase.
- **NOTE:**—sets apart special information or important instruction clarification.
- The symbol below highlights a **WARNING** or **CAUTION**:

Figure 1-1. Warning and Caution Symbol



- A **WARNING** identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.
- A **CAUTION** points out special procedures or precautions that service personnel must follow to avoid equipment damage.
- The symbol below highlights an electrical shock hazard **WARNING**.

Figure 1-2. Electrical Shock Hazard Warning



Introduction to the Long Term Care Overbed Table

Overview

The Long Term Care Overbed Table is a movable food/activity table designed primarily for use in the Long Term Care environment. Standard features include adjustable height, one hlow adjustment handle, C-shaped base, high pressure laminate top, and four swivel casters. Options include an extra wide top and a vanity storage drawer with framed mirror.



WARNING:

Long Term Care Overbed Tables are not designed for resident support. Residents should be advised to use more rigid structures for assistance during bed egress or ingress. Using the Long Term Care Overbed Table for support may result in personal injury.

Specifications

Physical Description

See table 1-1 on page 1-6 for Long Term Care Overbed Table specifications.

Table 1-1. Specifications

Feature	Dimension
Overall top length	30 1/8" (76.5 cm)
Overall standard top width	15 1/8" (38.4 cm)
Overall wide top width	19 1/8" (48.6 cm)
Overall top thickness	9/16" (1.43 cm)
Height of top surface above caster bearing surface with unit in the low position	28 1/2" (72.4 cm)
Height of top surface above caster bearing surface with unit in the high position	42 1/2" (108 cm)
Inside length dimension of vanity storage drawer	10 9/16" (26.8 cm)
Inside width dimension of vanity storage drawer	10 9/16" (26.8 cm)
Inside depth dimension of vanity storage drawer	2 1/4" (5.7 cm)
Overall mirror frame length	9 1/4" (23.5 cm)
Overall mirror frame width	5 1/2" (14 cm)
Overall mirror frame height	13/32" (1.0 cm)
Overall length of unit	30 7/8" (78.4 cm)
Overall width of unit with standard top	18 1/8" (46 cm)
Overall width of unit with wide top	19 1/8" (48.6 cm)
Overall width of base	18 1/8" (46 cm)
Overall height of base	3 3/4" (9.5 cm)
Overall length of base	29 1/2" (75 cm)
Inside base clearance	26 1/2" (67.3 cm)

UL Classification

There is no UL classification for the Long Term Care Overbed Table.

Model Identification

Table 1-2. Model Identification

Model Number	Description
P633D1 ††	Overbed table, C-base, standard top
P633D2 ††	Overbed table, C-base, standard top, vanity
P633D3 ††	Overbed table, C-base, wide top

†† Specify wood and laminate finish.

Warning and Caution Labels

There are no warning and caution labels for the Long Term Care Overbed Table.

Preventive Maintenance

The Long Term Care Overbed Table must have an effective maintenance program. We recommend that you perform preventive maintenance and testing for Joint Commission on Accreditation of Healthcare Organizations (JCAHO) annually. This not only meets JCAHO requirements, but will help to ensure a long and productive life for the Long Term Care Overbed Table. This will help minimize downtime due to excessive wear failures.

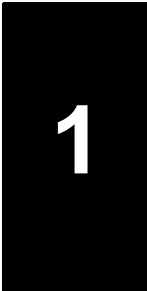
The preventive maintenance schedule that follows is intended to guide the technician through a normal preventive maintenance procedure on the Long Term Care Overbed Table. Check each item on the schedule, and make any necessary adjustments during the preventive maintenance process.

The preventive maintenance schedule is intended to be used in conjunction with the preventive maintenance checklist following it. This checklist is designed to keep a running history of maintenance and subsequent repair costs for one individual Long Term Care Overbed Table. However, the facility can modify this checklist or invent another to fit their needs. Keeping close records and maintaining the Long Term Care Overbed Table are two good ways of reducing downtime and at the same time, keeping the nursing staff happy and efficient.

Preventive Maintenance Schedule

Table 1-3. Preventive Maintenance Schedule

Function	Procedure
Casters	Inspect the casters on the base. Replace if required.
Gas spring assembly	Raise and lower the overbed table several times to inspect the locking mechanism on the cylinder. See "Adjustment" on page 1-13 if adjustment is required.
Tray and mirror assembly (P633D2 model only)	Inspect the mirror tray for proper operation. Lubricate with a sanitary lubricant only.



Preventive Maintenance Checklist

Table 1-4. Preventive Maintenance Checklist

Date														Function	
Hill-Rom Company, Inc.	Manufacturer														Casters
															Gas spring
															Tray and mirror assembly
	Model Number														
	Serial Number														
Total Cost for This Page														Labor Time:	
														Repair Cost:	
														Inspected By:	
														Legend L=Lube C=Clean A=Adjust R=Repair or Replace O=Okay N=Not Applicable Remarks:	

Removal, Replacement, and Adjustment Procedures

The removal, replacement, and adjustment procedures for the Long Term Care Overbed Table are as follows:

1.1 Tray and Mirror Assembly

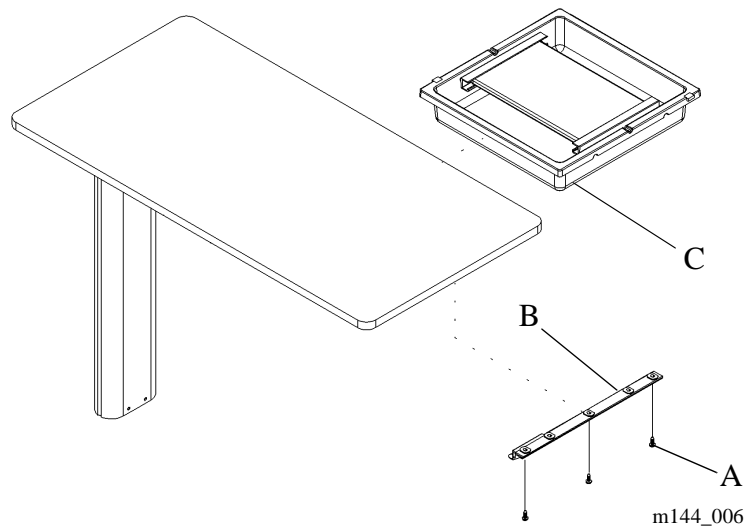
NOTE:

The tray and mirror assembly option is only available on the P633D2 model.

Removal

1. Raise the Long Term Care Overbed Table to its high position.
2. Turn the Long Term Care Overbed Table upside down, and place the top on a clean, flat surface.
3. Remove the three screws (A) to disassemble the guide rail (B) (see figure 1-3 on page 1-10).

Figure 1-3. Tray and Mirror Assembly Removal



4. Lift the tray and mirror assembly (C) out of the remaining guide rail.

Replacement

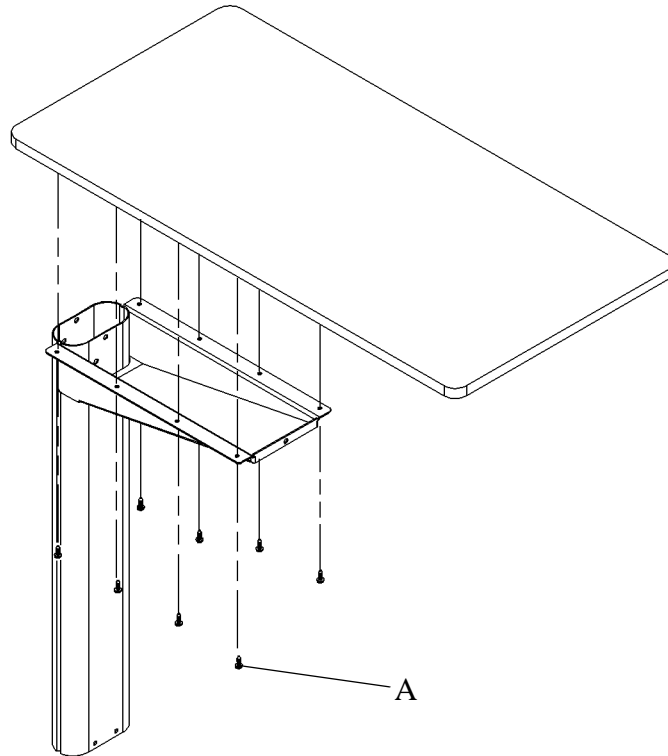
1. While holding the mirror up, slide it in the opposite direction until it comes out of the holder on the other side.
2. Assemble in reverse order.

1.2 Top

Removal

Remove the eight screws (A) holding the top in place (see figure 1-4 on page 1-11).

Figure 1-4. Top Replacement



m144_005

Replacement

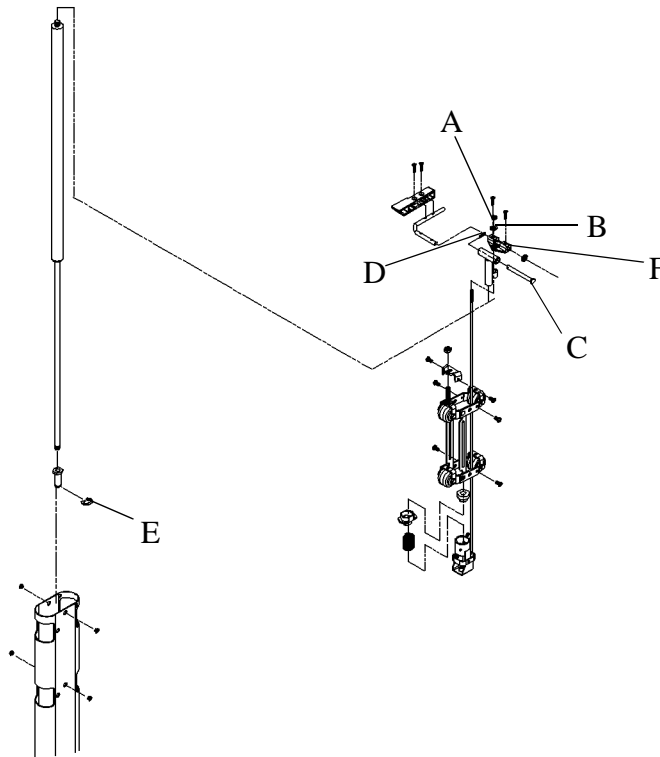
Assemble in reverse order.

1.3 Lift Mechanism

Removal

1. Remove the table top (refer to procedure 1.2).
2. Remove the hex locknut (A), the washer (B), the clevis pin (C), and the hair pin cotter key (D) (see figure 1-5 on page 1-12).

Figure 1-5. Lift Mechanism



m144_004

3. Pull the upper frame up and off of the base.
4. Remove the tru-arc ring (E) located on the bottom of the base, and remove the lift mechanism assembly.

Replacement

Assemble in reverse order.

Adjustment

1. After the new gas spring or lift mechanism components are replaced, tighten the hex locknut (A) until it is snug against the paddle (F).

NOTE:

The lift mechanism will not lock in this condition, and the hex locknut is considered to be overtightened. You can check this by applying a downward force on the table. The spring will actuate up and down freely.

2. To adjust the lift mechanism, gradually loosen the hex locknut (A) until the table does not move down freely with weight applied to the top.
3. Assemble the table top.

NOTES:

Chapter 2

Parts List

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Warranty

2

Hill-Rom®

A Hillenbrand Industry

LIMITED WARRANTY

Hill-Rom has a long tradition of providing superior quality products and service to our customer. Our goal is “Total Customer Satisfaction.” In that spirit, Hill-Rom is proud to offer the following warranty.

GENERAL WARRANTY:

Hill-Rom warrants to the original purchaser that its products shall be free from defects in material and workmanship for a period of one (1) year after date of delivery. Hill-Rom’s obligation under this warranty is expressly limited to supplying replacement parts and/or service for, or replacing, at its option, any product which is, in the sole discretion of Hill-Rom, found to be defective. In addition to the foregoing one year warranty, Hill-Rom warrants to the original purchaser that the frame and welds on its beds will be free from structural defects for the life of the bed. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE. HILL-ROM’S OBLIGATION UNDER THESE WARRANTIES SHALL NOT INCLUDE ANY LIABILITY FOR LOSS OF PROFITS, DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES OR DELAYS. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply. If requested by Hill-Rom, products or parts for which a warranty claim is made shall be returned prepaid to Hill-Rom’s factory. Any improper or negligent use, any alterations or repairs not in accordance with Hill-Rom’s manuals or performed by others in such manner as in Hill-Rom’s judgement affects the product materially and adversely, shall void these warranties. No employee or representative of Hill-Rom is authorized to change these warranties in any way or grant any other warranty. These warranties shall not apply outside the United States. These warranties provide specific legal rights; however, there may be other available rights, which vary from state to state.

PART AVAILABILITY POLICY: Hill-Rom will supply parts for new products for fifteen (15) years from date of last manufacture, and on remanufactured products for ten (10) years from date of sale.

OUT OF WARRANTY EXCHANGE POLICY: After the expiration of the original warranty, upon request, Hill-Rom will ship as a replacement, rebuilt electric motors, control boards, and air compressors for like units returned to Hill-Rom by the original purchaser for forty percent (40%) of the then-current new price. The exchange price is a substantial savings to the hospital as compared to the price of a new motor, control boards, and air compressors. The replacement motors, control boards and air compressors will carry a new one (1) year parts warranty.

SPECIFIC WARRANTIES:

MATTRESS WARRANTIES:

DYNAMICAIRES™ SLEEP SURFACE: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of two (2) years from date of delivery. After the expiration of this warranty, the surface components may be purchased at 50% of the then-current price during the third, fourth and fifth years after date of delivery.

(Continued)

COMFORTLINE® MATTRESS: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of two (2) years from date of delivery. After the expiration of this warranty, the mattress components may be purchased at 50% of the then-current price during the third, fourth and fifth years after date of delivery.

ZONEAIRE™ SLEEP SURFACE: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of two (2) years from date of delivery. After the expiration of this warranty, the surface components may be purchased at 50% of the then-current price during the third, fourth and fifth years after date of delivery. Electro mechanical components (compressor, valves, printed circuit boards, hoses and couplers) are warranted to be free from defects in material and workmanship for a period of one (1) year from date of delivery.

INNERSPRING MATTRESS: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for the following specified periods from date of delivery. SureRest® III: Twelve (12) year prorated warranty; SureRest II: Ten (10) year prorated warranty; SureRest I: Five (5) year prorated warranty.

PERINATAL MATTRESS: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of one (1) year, when used with proper draping practices, from date of delivery.

FOAM MATTRESS: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of two (2) years from date of delivery.

COMPOSER™ COMMUNICATION SYSTEM WARRANTIES:

COMPOSER HARDWARE WARRANTIES: Hill-Rom warrants to the original purchaser that the hardware components of the COMposer shall be free from defects in material and workmanship for a period of one (1) year after the date of system certification. Hill-Rom's obligation under this warranty is expressly limited to supplying replacement parts and/or service for, or replacing, at its option, any product which is, in the sole discretion of Hill-Rom, found to be inoperable.

COMPOSER SOFTWARE WARRANTIES: Hill-Rom warrants to the original purchaser that the physical diskettes on which COMposer system software is distributed shall be free from defects in material and workmanship for a period of sixty (60) days from the date of delivery. The entire and exclusive remedy available to the purchaser under this warranty is limited to replacement of inoperable diskettes and shall not extend to any claim for or right to recover any damages, including but not limited to, loss of profit, data or use of the software, or special, incidental or consequential damages, or other similar claims.

COMPOSER EXPENDABLES WARRANTIES: Hill-Rom warrants for sixty (60) days the expendable parts such as locator badge batteries and dome light incandescent bulbs.

OTHER WARRANTIES:

EXPENDABLES WARRANTIES: A sixty (60) day limited warranty applies to expendable parts such as overhead fluorescent tubes, heating elements and temperature probes.

UPGRADE KIT WARRANTIES: Hill-Rom warrants to the original purchaser that its product shall be free from defects in material and workmanship for a period of one (1) year from date of delivery. The warranty on existing product is not affected. A Product Assurance and/or Preventive Maintenance contract will be offered at the time of installation for a pre-determined fee. This will act to advise the customer of the condition of Hill-Rom products being upgraded along with specific parts and PM recommendations.

FOR PARTS AND SERVICE UNDER THESE WARRANTIES: Call Hill-Rom Technical Support Department at (800) 445-3720, Monday through Friday. In order to expedite service, we request you furnish the following information: customer identification number, product model number, serial number, and description of problem. A qualified Specialist will provide, via telephone, troubleshooting assistance for hospital personnel and provide necessary parts to make repairs. If telephone troubleshooting determines the need for on-site technical service, a qualified Territory Service Representative will be dispatched. Replacement of non-technical items will be the responsibility of the customer. These warranties do not cover failures due to misuse, abuse, neglect or lack of routine maintenance, which are the responsibility of the owner.

Revised November 1, 1995

Ordering Service Parts

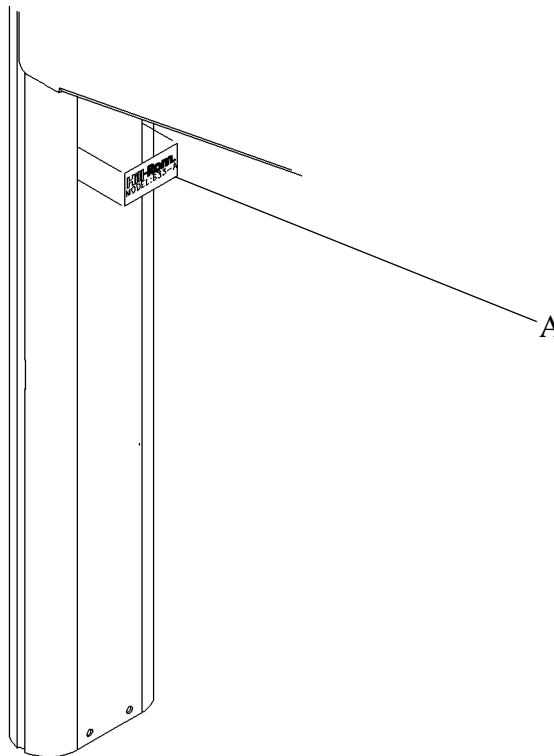
Use the parts lists in this service manual to identify the part numbers you require.

Call your Technical Customer Support Specialist at the Hill-Rom Technical Support Department—phone (800) 445-3720. To help expedite the processing of your parts order, please have your six-digit customer account number, purchase order number, and product number available for the Technical Customer Support Specialist when you call.

NOTE:

You will find the product number on the product identification label (A) (see figure 2-1 on page 2-5).

Figure 2-1. Location of Identification Label



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For your convenience, Hill-Rom provides a telefax number to promptly order parts, request part prices and availability, or to follow up on a service order. The telefax number is (812) 934-8472.

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We suggest a minimum of \$40.00 when placing orders for service parts. This will help prevent an increase in the cost of processing your service order.

Terms:

- Net 30 days.
- F.O.B. Batesville, Indiana.
- Shipping charges are prepaid and added to the invoice.
- All service orders are shipped UPS ground, unless you specifically request an alternative method.

Address all inquiries to:

Hill-Rom Company
1069 State Route 46 E
Batesville, Indiana 47006-9167
Attention: Technical Support—Parts

Address all return goods to:

Hill-Rom Company
Distribution Center Door D23
County Road 300E
Batesville, Indiana 47006-9167
Attention: Service Stores

NOTE:

To eliminate possible delays or incorrect billings, **do not** return any items without a Return Material Authorization (RMA) number. A Return Material Authorization packet is included with each order when a return is requested. This packet includes an RMA number, instructions, and a shipping label. If misplaced, obtain an RMA number by phoning the Hill-Rom Technical Support Department at (800) 445-3720.

Exchange Policy

The following are Hill-Rom's policies for in-warranty and out-of-warranty exchanges.

In-Warranty Exchanges

Hill-Rom will request that parts/products be returned for inspection in some cases. When this occurs, you are expected to return parts/products within 30 days. If you fail to return the inoperative parts/products within the 30 day period, Hill-Rom will invoice your facility for the full selling price of the parts/products.

NOTE:

The preceding billing procedure **only** pertains to parts/products that Hill-Rom requests to be returned.

In some cases, the invoice sent with the parts will show the full selling price of the parts. This is for Hill-Rom's internal use only and should not be confused with the price you will actually pay.

Please do not return any parts without an RMA number. Hill-Rom will include a Return Material Authorization packet with the parts/products shipment when parts/products have been requested to be returned. If misplaced, obtain an RMA number by phoning the Hill-Rom Technical Support Department at (800) 445-3720.

Out-of-Warranty Exchanges

You are expected to return the inoperative parts/product to Hill-Rom within 30 days. Hill-Rom will include a Return Material Authorization packet with the parts/products shipment. If misplaced, obtain an RMA number by phoning the Hill-Rom Technical Support Department at (800) 445-3720. If you fail to return the equipment within thirty days, Hill-Rom will invoice your facility for **the difference between the exchange price and the new price of the part.**

2

Recommended Spare Parts

Following is a list of recommended spare parts for the Long Term Care Overbed Table. The quantities are adequate for servicing fifty or more overbed tables.

Table 2-1. Recommended Spare Parts

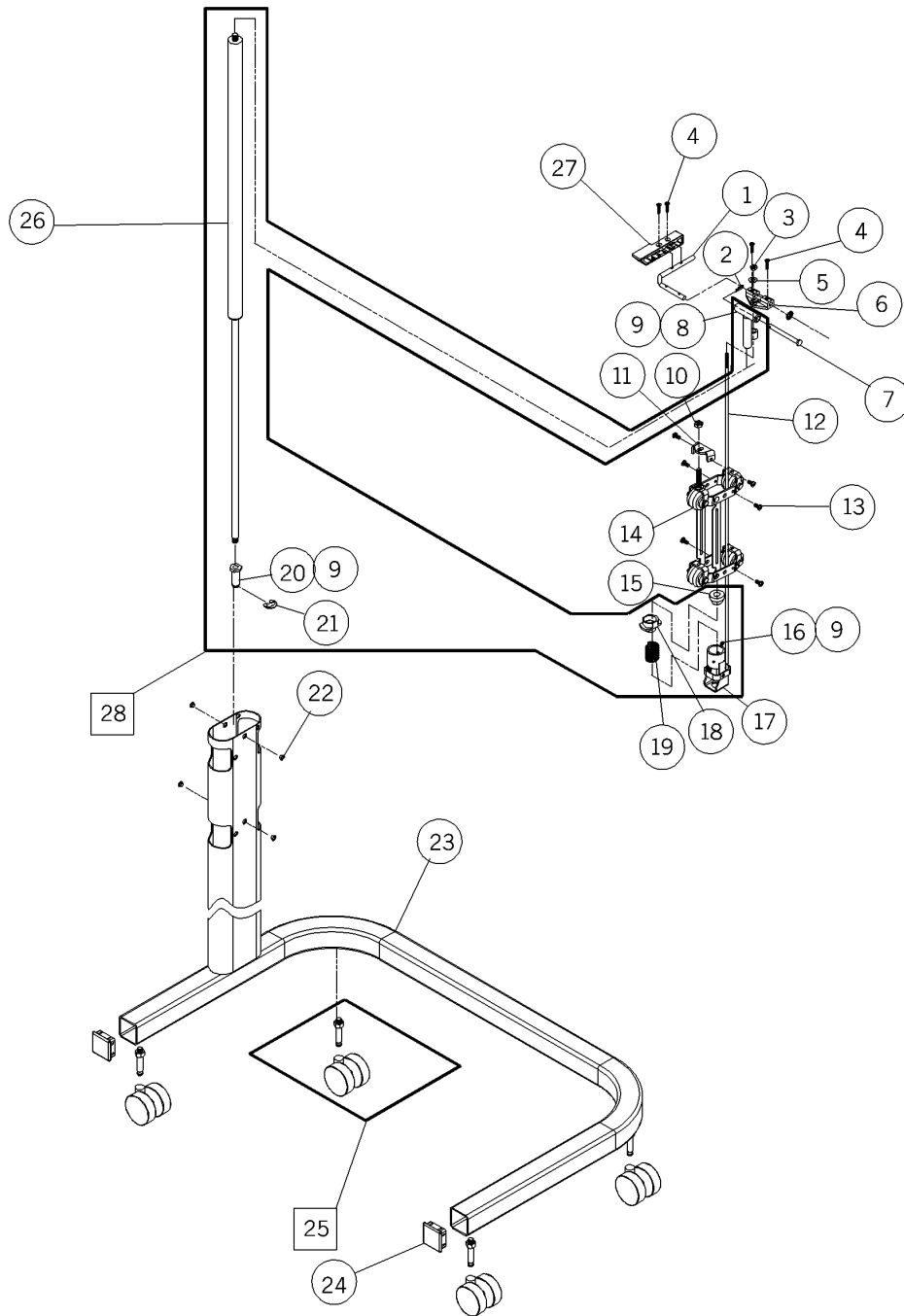
Part Number	Quantity	Description
34867 (633)	2	Release knob—left-hand
SA1641 (633)	1	Caster and stem—set of four
49808 (633)	2	Tube cap
SA1642 (633)	1	Gas spring assembly
26705-33 (633)	2	Tray (P633D2 only)
26711-33 (633)	2	Mirror assembly (P633D2 only)

NOTES:

Base Assembly

2

Figure 2-2. Base Assembly



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Table 2-2. Base Assembly

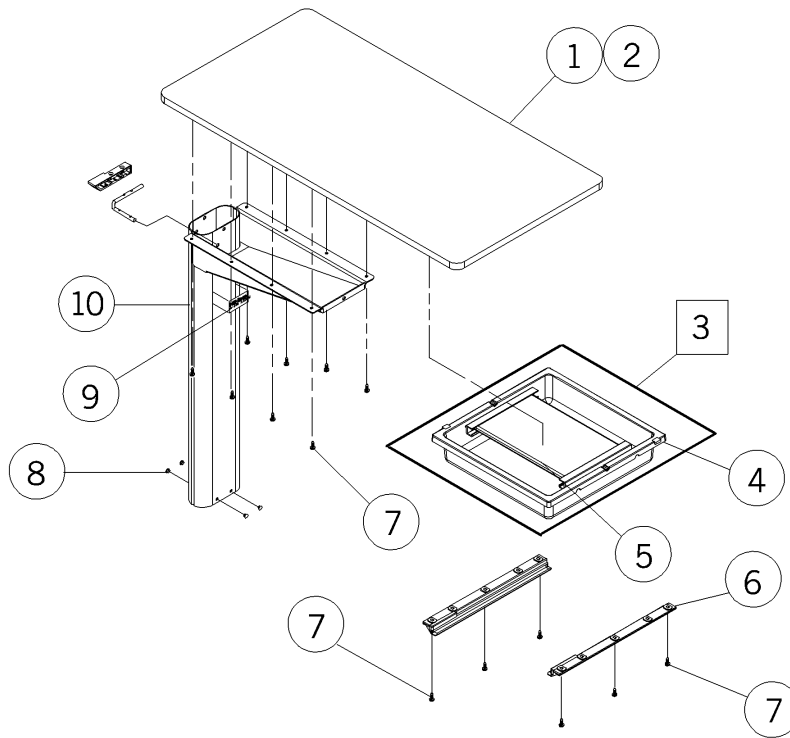
Item Number	Part Number	Quantity	Description
1	49290pl (633)	1	Release lever
2	4179 (633)	1	Hair pin cotter key
3	777 (633)	1	Hex locknut
4	29589 (633)	4	Screw
5	10429 (633)	1	Washer
6	49291 (633)	1	Paddle
7	36996 (633)	1	Clevis pin
8	47078 (633)	1	Extension rod
9	37997 (633)	As required	Adhesive
10	90234-04 (633)	1	Nut
11	34765 (633)	1	Anchor bracket
12	37062 (633)	1	Release rod
13	22400 (633)	6	Screw
14	34799 (633)	1	Roller assembly
15	36392 (633)	1	Cylinder cam
16	1215 (633)	2	Allen screw
17	36394 (633)	1	Cam bracket assembly
18	34849 (633)	1	Rod lock
19	34862 (633)	1	Spring
20	47011pl (633)	1	Rod extender
21	19678 (633)	1	Tru-arc ring
22	34872 (633)	4	Slide button
23	4929333 (633)	1	C-base weldment
24	49808 (633)	2	Tube cap
25	SA1641 (633)	1	Caster and stem—set of four
26	455964 (633)	1	Gas spring
27	34867 (633)	1	Release knob—left-hand
28	SA1642 (633)	1	Gas spring assembly



2

Top Assembly

Figure 2-3. Top Assembly



m144_002

Table 2-3. Top Assembly

Item Number	Part Number	Quantity	Description
1	11249601 (633) ††	1	Top—standard (P633D1 and P633D2 only)
2	11249602 (633) ††	1	Top—wide (P633D3 only)
3	26714 (633)	1	Tray and mirror assembly (P633D2 only)
4	26705-33 (633)	1	Tray (P633D2 only)
5	26711-33 (633)	1	Mirror assembly (P633D2 only)
6	8837 (633)	2	Guide rail (P633D2 only)
7	10595 (633)	14	Screw
8	34872 (633)	4	Slide button
9	4293704s (633)	1	Label—product identification
10	4929833 (633)	1	Top frame weldment

†† Specify wood and laminate finish.

NOTES:

NOTES:

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