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415

-001 thru -004

Lithotomy Chair System

MIDMARK®

Service and Parts Manual

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(*) Indicates that there has been a serial number break for the illustration and that there are additional point page(s) following the original page.

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IMPORTANT INSTRUCTIONS

General Safety Instructions

Safety First: The primary concern of Midmark Corporation is that this Lithotomy Chair System is maintained with the safety of the patient and staff in mind. To assure that services and repairs are completed safely and correctly, proceed as follows:

(1) Read this entire manual before performing any services or repairs on this chair.

(2) Be sure you understand the instructions contained in this manual before attempting to service or repair this chair.

Safety Alert Symbols

Throughout this manual are safety alert symbols that call attention to particular procedures. These items are used as follows:

DANGER

A DANGER is used for an imminently hazardous operating procedure, practice, or condition which, if not correctly followed, will result in loss of life or serious personal injury.

WARNING

A WARNING is used for a potentially hazardous operating procedure, practice, or condition which, if not correctly followed, could result in loss of life or serious personal injury.

CAUTION

A CAUTION is used for a potentially hazardous operating procedure, practice, or condition which, if not correctly followed, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

EQUIPMENT ALERT

An EQUIPMENT ALERT is used for an imminently or potentially hazardous operating procedure, practice, or condition which, if not correctly followed, will or could result in serious, moderate, or minor damage to unit.

NOTE

A NOTE is used to amplify an operating procedure, practice or condition.

Warranty Instructions

Refer to the Midmark “Limited Warranty” printed on the back cover of the Installation and Operation Manual for warranty information. Failure to follow the guidelines listed below will void the warranty and / or render the 415 Lithotomy Chair System unsafe for operation.

- In the event of a malfunction, do not attempt to operate the chair until necessary repairs have been made.
- Do not attempt to disassemble chair, replace malfunctioning or damaged components, or perform adjustments unless you are one of Midmark’s authorized service technicians.
- Do not substitute parts of another manufacturer when replacing inoperative or damaged components. Use only Midmark replacement parts.

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SECTION I
GENERAL INFORMATION

1.1 Scope of Manual

This manual contains detailed troubleshooting, scheduled maintenance, maintenance, and service instructions for 415 Lithotomy Chair System. This manual is intended to be used by Midmark's authorized service technicians.

1.2 How to Use Manual

A. Manual Use When Performing Scheduled Maintenance.

(1) Perform inspections and services listed in Scheduled Maintenance Chart (Refer to para 3.1).

(2) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

B. Manual Use When Chair Is Malfunctioning And Cause Is Unknown.

(1) Perform an operational test on chair (Refer to para 2.1).

(2) Perform troubleshooting procedures listed in Troubleshooting Guide (Refer to para 2.2).

(3) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

C. Manual Use When Damaged Component Is Known.

(1) Replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

1.3 Description Of 415 Lithotomy Chair System

A. General Description (See Figure 1-1).

The 415 Lithotomy Chair System is an examination chair designed for performing female specific examinations and procedures on female patients; especially Lithotomy procedures.

The major serviceable components of the chair are the seat actuator, seat capacitor, base actuator, base capacitor, pan safety limit switch, seat up limit switch, seat down limit switch, base down limit switch, and the foot control which includes four foot switches.

B. Theory of Operation (See Figure 5-1, Sheets 1 and 2 for domestic wiring diagrams, Figure 5-2 for export wiring diagrams)

Electrical Power:

Line voltage is supplied directly to the footswitches of the chair. Also, line voltage is always present at the receptacle (domestic units after Serial Number AM-1287 only).

Chair Operation:

Power is present at all four foot control footswitches. However, the BASE DOWN and SEAT UP switches receive their power thru the BASE UP and SEAT DOWN footswitches, respectively. So, if the BASE UP footswitch is depressed, power is removed from the BASE DOWN footswitch and if the SEAT DOWN footswitch is depressed, power is removed from the SEAT UP footswitch. This wiring setup prevents the operator from trying to run the actuator in an up and down direction simultaneously and causing damage to the actuator.

SEAT UP function:

When the operator depresses the SEAT UP footswitch, current is applied across the seat actuator motor windings thru the normally open (N.O.) pan safety limit switch and seat capacitor, causing the seat actuator to run. The pan safety limit switch is a N.O switch. When the pan assembly is in its stowed position, the pan safety limit switch is tripped, closing the circuit and allowing the seat actuator to run. If the pan assembly is not in its stowed position, the pan safety limit switch is not tripped, which opens the circuit and prevents the seat actuator from running. This prevents the operator from running the foot section into the pan assembly and

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SECTION I
GENERAL INFORMATION

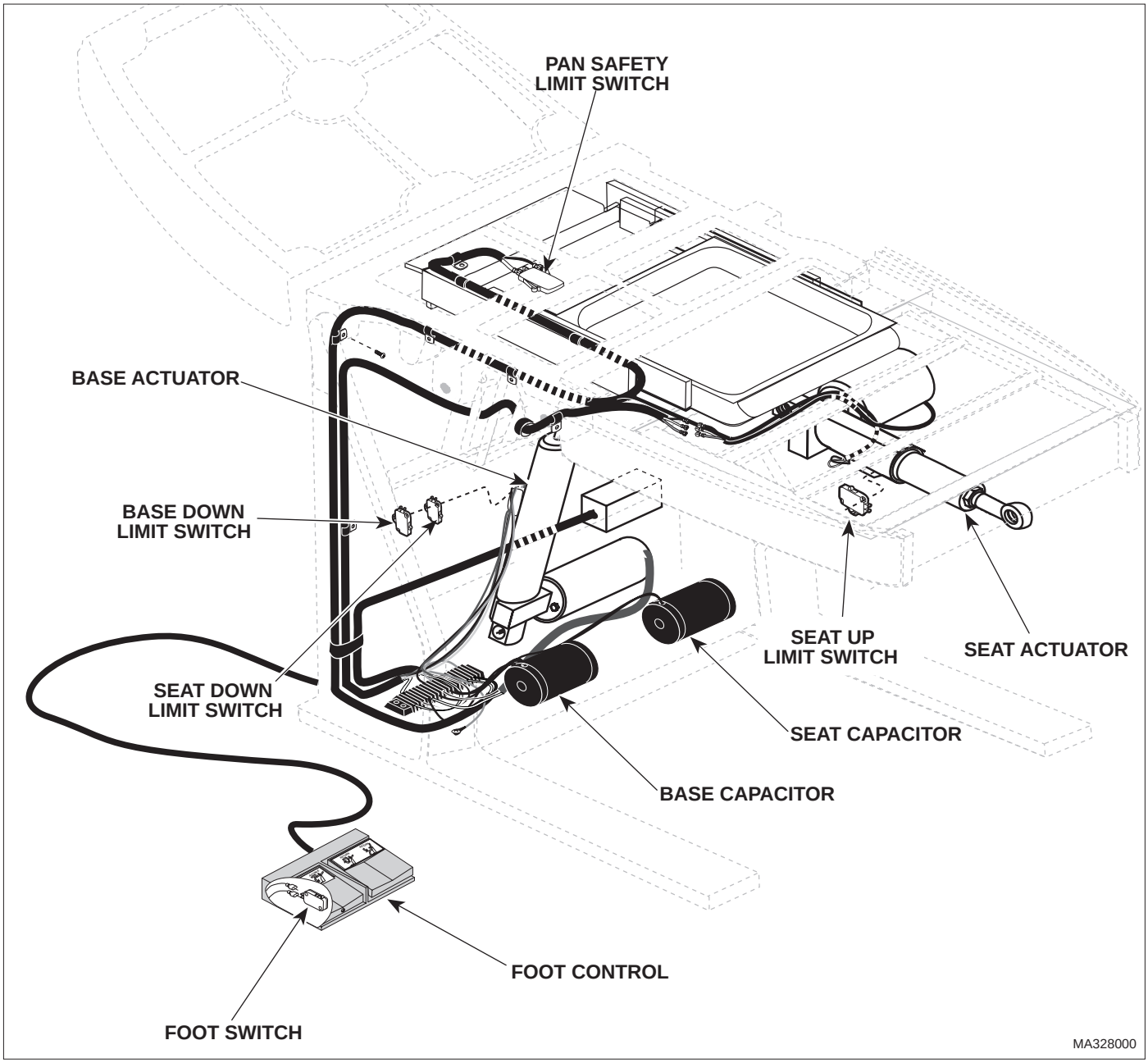

Figure 1-1. Major Components

damaging it. The seat capacitor provides motor start and motor run power for the seat actuator.

BASE DOWN function:

When the BASE DOWN footswitch is depressed, current is applied across the base actuator motor coil thru either the seat up limit switch or the base down limit switch and base capacitor, causing the base actuator to run. The seat up limit switch is a normally closed (N.C.) switch which is tripped when the seat function is in any position, but all the way up, resulting in an open circuit. This prevents the operator from running the BASE DOWN function (lower than the 2/3 up position - see base down limit switch operation) when the seat is in any position, but all the way up, preventing an accidental seat section collision with floor. When the seat function is raised all the way up,

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the seat up limit switch untrips, closing the circuit, and allowing the BASE DOWN function to be operated to any position.

The base down limit switch is a N.C. switch which is tripped when the base function is between the all the way down position to approximately the 2/3 up position, resulting in an open circuit. This means that the switch is untripped only when the base function is in 2/3 up position to all the way up position, resulting in a closed circuit. This only allows the operator to lower the BASE DOWN function down to the 2/3 up position. Then the base down limit switch trips, opening the circuit, and preventing further downward movement of the base actuator. This prevents an accidental seat section collision with floor. The base capacitor provides motor start and motor run power for the base actuator.

So, if the seat up limit switch is tripped (seat function *is not* in all the way up position), the base down limit switch provides the base actuator with current; this allows you to lower table top only 1/3 of way down. But, if the seat up limit switch is untripped (seat function *is* in all the way up position), the seat up limit switch provides the base actuator with current; this allows you to lower table top all the way down.

BASE UP function:

When the BASE UP footswitch is depressed, current is applied across the base actuator motor coil and base capacitor, causing the base actuator to run. The base capacitor provides motor start and motor run power for the base actuator.

SEAT DOWN function

When the SEAT DOWN footswitch is depressed, current is applied across the seat actuator motor coil thru the seat down limit switch and seat capacitor. The seat down limit switch is a N.C. switch which is tripped when the base function is between the all the way down position to approximately the 2/3 up position, resulting in an open circuit. This means that the switch is untripped only when the base function is in the 2/3 up position to all the way up position, resulting in a closed circuit. This only allows the operator to lower the SEAT DOWN function if the base actuator is in 2/3 up position or higher. This prevents an accidental seat section collision with floor. The seat capacitor provides motor start and motor run power for the seat actuator.

1.4 Specifications

Factual data for the 415 Female Lithotomy Chair System is provided in Table 1-1. Also, see Figure 1-2.

Table 1-1. Specifications

Description	Data
Weight:	
Without Shipping Carton	355 lb (161.0 kg)
With Shipping Carton	400 lb (181.4 kg)
Shipping Carton	55 in. "L" x 33 in. "W" x 44 in. "H" (139.7 cm x 83.8 cm x 111.7 cm)
Dimensions (See Figure 1-2):	
Table Top Length (w/o foot section extended)	54.0 in. (137.1.0 cm)
Table Top Length (w/ foot section extended)	66 in. (167.6 cm)
Table Top Width (w/ armrests)	28 in. (71.1 cm)
Maximum width of upholstery	22 in. (55.9 cm)
Overall Width	30 in. (76.2 cm)
Chair Positioning:	
Seat height in chair position	19 in. (48.3 cm)
Height in table position	34 in. (86.4 cm)
Maximum pelvic area height	36 in. (91.4 cm)
Chair Speeds (@ 60 Hz.):	
Base Up	9 ±1 seconds
Seat Up	9 ±1 seconds
Weight Capacity (Maximum)	300 lb. (136.0 kg)
Electrical Requirements:	
115 VAC Unit	110 - 120 VAC, 60 HZ, 6 amp, single phase
230 VAC Unit	220 - 240 VAC, 50/60 HZ, 5 amp, single phase
Power Consumption:	
115 VAC Unit	720 WATTS, 6 amps @ 120 VAC
230 VAC Unit	1200 WATTS, 5 amps @ 240 VAC
Recommended Circuit:	
A separate (dedicated) circuit is recommended for this chair. The chair *should not* be connected to an electrical circuit with other appliances or equipment unless the circuit is rated for the additional load.	

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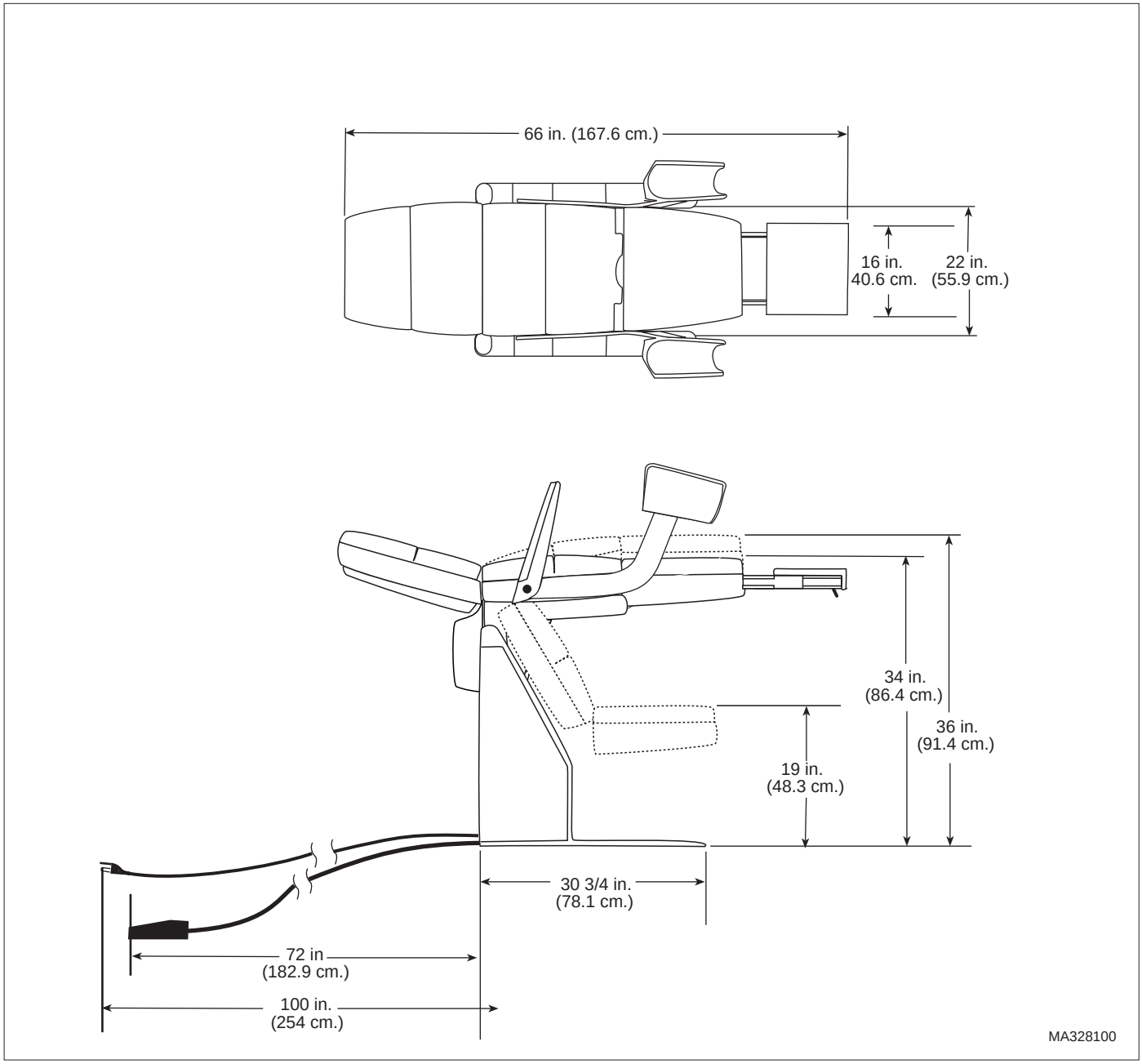

Figure 1-2. Chair Dimensions

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1.5 Parts Replacement Ordering

If a part replacement is required, order the part directly from the factory as follows:

(1) Refer to Figure 1-3 to determine the location of the model number and serial number of the chair and record this data.

(2) Refer to the Parts List to determine the item numbers of the parts, part numbers of the parts, descriptions of the parts, and quantities of parts needed and record this data (Refer to para 6.1).

NOTE
Ask the Purchasing Department of the company that owns the chair for this information. Otherwise, this information may be obtained from the dealer that sold the chair.

(3) Determine the installation date of the chair and record this data.

(4) Call Midmark with the recorded information and ask for the Medical Products Technical Services Department. See back cover of this manual for the phone number or use the Fax Order Form (See page 7-2 for Fax Order Form).

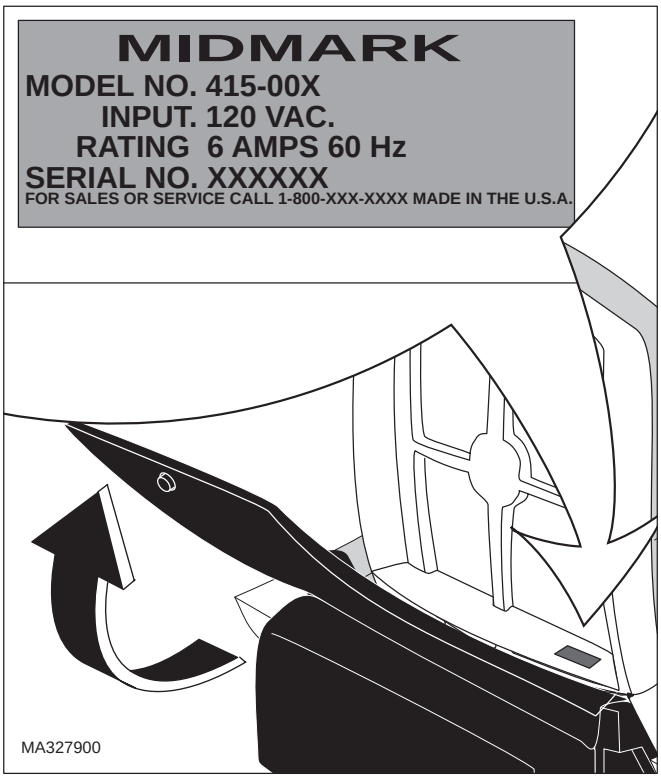

Figure 1-3. Model Number / Serial Number Location

1.6 Special Tools

Table 1-2 lists all of the special tools needed to repair the chair, how to obtain the special tools, and the purpose of each special tool.

Table 1-2. Special Tool List

Description of Special Tool	Manufacturer's Name / Address / Phone	Manufacturer's Part Number	Purpose of Special Tool
Multimeter	Commercially Available	Any Type	Used to perform continuity and voltage checks.
Torque Wrench	Commercially Available	Any Type	Used to tighten hardware to specified torque values.

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SECTION II
TESTING AND TROUBLESHOOTING

2.1 Operational Test

In order to effectively diagnose the malfunction of the chair, it may be necessary to perform an operational test as follows:

DANGER
Refer to the Operator Manual for complete instructions on operating the chair. Failure to do so could result in personal injury.

NOTE
The Operational Test, for the most part, only describes what should happen when the chair is operated. If the chair does something other than described, a problem has been discovered. Refer to the Troubleshooting Guide to determine the cause of the problem and its correction.

(1) Plug the chair into a grounded, non-isolated, correctly polarized outlet, that has the proper voltage output for the chair.

NOTE
Pan holder assembly should be pushed in fully for the following step.

(2) Depress BASE UP, SEAT DOWN, SEAT UP, and BASE DOWN footswitches in this order.

(3) Observe. The table top should move in the direction corresponding to the footswitch which is being depressed and at the speeds listed below:
Chair Speeds (@ 60 Hz.):
Base Down to Base Up in 9 +/1 seconds
Seat Down to Seat Up in 9 +/1 seconds
The actuator assembly should not drift after the footswitch is released. The actuator assembly should not make excessive squealing noises.

(4) Raise BASE UP function all the way up.

(5) Depress SEAT DOWN footswitch and lower seat section halfway. Then raise SEAT UP function all the way up.

(6) Observe. Seat actuator should run.

(7) Depress BASE DOWN footswitch and lower table top all the way down; then depress SEAT DOWN footswitch.

(8) Observe. After the BASE DOWN function is lowered all the way down, the seat actuator should not run when the SEAT DOWN footswitch is depressed.

(9) Run BASE UP function all the way up and then run SEAT DOWN function all the way down.

(10) Pull the pan holder assembly outward until pan safety limit switch is no longer tripped. Depress SEAT UP footswitch and then SEAT DOWN footswitch.

(11) Observe. The seat section of table top *should not* move when the SEAT UP and SEAT DOWN footswitches are depressed.

(12) Push pan holder assembly inward until pan safety limit switch is tripped. Depress SEAT UP and SEAT DOWN footswitches.

(13) Observe. The seat section of table top *should* move when the SEAT UP and SEAT DOWN footswitches are depressed.

(14) Lower the SEAT DOWN function all the way down.

(15) Depress and hold the BASE DOWN footswitch.

(16) Observe. The BASE DOWN function should lower approximately 1/3 of its travel and then stop.

(17) Raise the SEAT UP function all the way up.

(18) Depress the BASE DOWN footswitch.

(19) Observe. The BASE DOWN function should lower all the way down.

(20) Pull the release handle and extend the foot extension. Then, pull the release handle and push the foot extension back into foot section.

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SECTION II
TESTING AND TROUBLESHOOTING

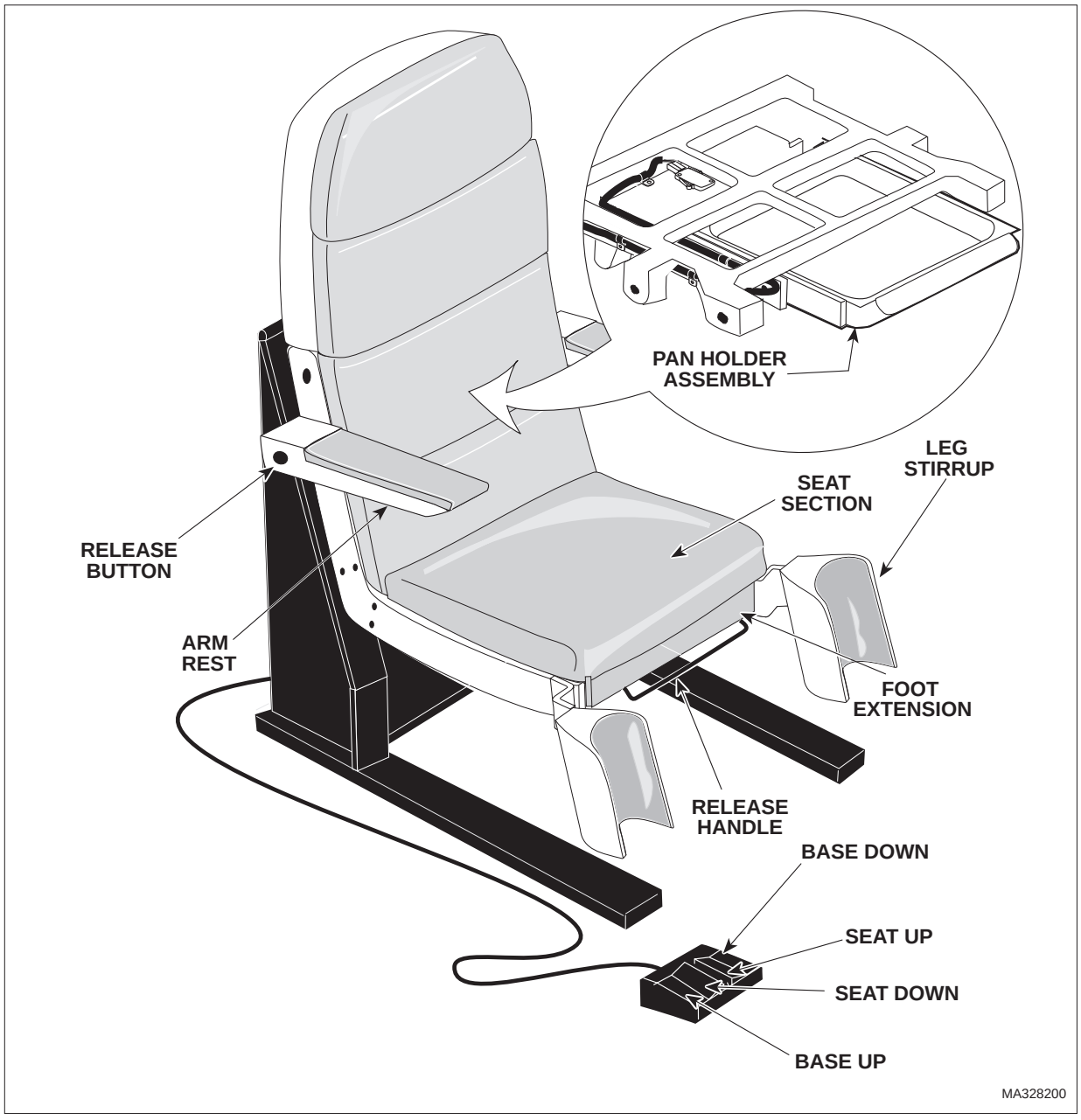

Figure 2-1. Operational Test

(21) Observe. The foot extension should slide out easily and quietly. The foot extension should automatically lock into a fully extended position. When the foot extension is pushed into the foot section, the foot extension should automatically lock into a stowed position.

(22) Press the arm rest release button and lower the arm rest.

(23) Observe. When the release button is pressed, the arm rest should be able to be lowered.

(24) Raise arm rest upward and then release.

(25) Observe. The arm rest should automatically lock into its normal position.

2.2 Troubleshooting Procedures

Table 2-1 is a Troubleshooting Guide which is used to determine the cause of the malfunction.

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Table 2-1. Troubleshooting Guide

Problem	Symptom	Probable Cause	Check	Correction
Table will not operate when any of the Base or Seat up or down functions are selected.	When a foot control footswitch is depressed, its actuator motor does not run or hum.	Power cord is not plugged into facility wall outlet.	Check to see if power cord is plugged in.	Plug power cord into facility wall outlet.
		Facility circuit breaker providing power to chair is tripped.	Check to see if facility circuit breaker is tripped. One way of checking this is to plug a lamp into wall outlet that chair was plugged into.	If circuit breaker is tripped, determine what caused circuit breaker to trip, correct the problem, and then reset / replace circuit breaker.
		One or both fuses in AC connector receptacle is blown (export models only).	Refer to Figure 5-2 for fuse information. Perform continuity check on fuse.	Replace any blown fuses.
		Wire connections loose.	Check all wiring connections from power cord to terminal block. Perform continuity check on wires. Use multimeter to check for proper voltage levels.	Clean any dirty connections. Tighten any loose connections. Replace any damaged connections.
SEAT UP function does not work, but SEAT DOWN function does.	When SEAT UP footswitch is depressed, nothing happens.	SEAT UP footswitch is malfunctioning.	Perform continuity check on SEAT UP footswitch. When footswitch is activated, there should be continuity between COM. and N.O. terminals of footswitch.	Replace SEAT UP footswitch.
		SEAT DOWN footswitch is sticking open.	Perform continuity check on SEAT DOWN footswitch. When footswitch is not activated, there should be continuity between COM. and N.C. terminals of footswitch.	Replace SEAT DOWN footswitch.
SEAT DOWN function does not work, but SEAT UP function does.	When SEAT DOWN footswitch is depressed, nothing happens.	SEAT DOWN footswitch is malfunctioning.	Perform continuity check on SEAT DOWN footswitch. When footswitch is activated, there should be continuity between COM. and N.O. terminals of footswitch.	Replace SEAT DOWN footswitch.
		Seat down limit switch is tripped.	Check if seat down limit switch is tripped. Seat down limit switch should be tripped when base actuator is in all the way down position to 2/3 up position. This prevents operator from accidentally colliding seat section with floor.	Raise BASE UP function until it is at least 2/3 of the way up in its travel. Then SEAT DOWN function will work. Inform operator of the seat down limit switch function.
		Seat down limit switch is malfunctioning.	Perform continuity check on N.C. seat down limit switch. Switch tripped = open circuit. Seat down limit switch is tripped when base actuator is in all the way down position to 2/3 up position.	Replace seat down limit switch.

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SECTION II
TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
SEAT UP and SEAT DOWN functions do not work.	When SEAT DOWN or SEAT UP footswitch is depressed, nothing happens.	Wire connections loose.	Check all wiring connections from SEAT DOWN footswitch to terminal block. Perform continuity check on wires. Use multimeter to check for proper voltage levels.	Clean any dirty connections. Tighten any loose connections. Replace any damaged connections.
		Treatment pan assembly is not pushed in all the way.	Check if treatment pan assembly is pushed all the way in to its stowed position.	Push treatment pan assembly all the way in. Inform operator on how this function works.
		Pan safety limit switch is malfunctioning.	Perform continuity check on pan safety limit switch. Switch tripped = closed circuit or continuity.	Replace pan safety limit switch.
		Seat capacitor is weak or blown.	Replace suspect seat capacitor with known working seat capacitor.	Replace seat capacitor.
		Thermal overload switch in seat actuator motor is activated.	—	Wait 10 to 20 minutes to allow seat actuator motor to cool.
		Seat actuator assembly is malfunctioning.	Replace suspect seat actuator assembly with known working seat actuator assembly.	Replace seat actuator assembly.
BASE DOWN function does not work, but BASE UP function does.	When BASE DOWN footswitch is depressed, nothing happens.	BASE DOWN footswitch is malfunctioning.	Perform continuity check on BASE DOWN footswitch. When footswitch is activated, there should be continuity between COM. and N.O. terminals of footswitch.	Replace BASE DOWN footswitch.
		BASE UP footswitch is sticking open.	Perform continuity check on BASE UP footswitch. When footswitch is not activated, there should be continuity between COM. and N.C. terminals of footswitch.	Replace BASE UP footswitch.
		Base down limit switch is tripped.	Check if base down limit switch is tripped. Base down limit switch will be tripped when base actuator is lowered below the 2/3 up position. This removes current from base actuator if N.C seat up limit switch is also tripped. This prevents operator from accidentally colliding seat section with floor.	Raise SEAT UP function all the way up to untrip seat up limit switch. Then BASE DOWN function can be lowered all the way down. Inform the operator how this function works.

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
BASE DOWN function does not work, but BASE UP function does - Continued.	When BASE DOWN footswitch is depressed, nothing happens - Continued.	Base down limit switch is malfunctioning.	Perform continuity check on N.C. base down limit switch. Switch tripped = open circuit. Base down limit switch is tripped when base actuator is in all the way down position to 2/3 up position.	Replace base down limit switch.
		Seat up limit switch is malfunctioning.	Perform continuity check on N.C. seat up limit switch. Switch tripped = open circuit. Seat up limit switch is untripped only when seat section is all the way up.	Replace seat up limit switch.
BASE UP function does not work, but BASE DOWN function does.	When BASE UP footswitch is depressed, nothing happens.	BASE UP footswitch is malfunctioning.	Perform continuity check on BASE UP footswitch. When footswitch is activated, there should be continuity between COM. and N.O. terminals of footswitch.	Replace BASE UP footswitch.
BASE UP and BASE DOWN functions do not work.	When BASE UP or BASE DOWN footswitch is depressed, nothing happens.	Wire connections loose.	Check all wiring connections from BASE UP footswitch to terminal block. Perform continuity check on wires. Use multimeter to check for proper voltage levels.	Clean any dirty connections. Tighten any loose connections. Replace any damaged connections.
		Base capacitor is weak or blown.	Replace suspect base capacitor with known working base capacitor.	Replace base capacitor.
		Thermal overload switch in base actuator motor is activated.	–	Wait 10 to 20 minutes to allow base actuator motor to cool.
		Base actuator assembly is malfunctioning.	Replace suspect base actuator assembly with known working base actuator assembly.	Replace base actuator assembly.
Base or seat function drifts by itself.	Function operates properly otherwise.	Motor actuator brake is malfunctioning.	Replace suspect actuator brake components with new components.	Replace actuator brake components.

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SECTION II
TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Chair moves fine for light patient, but will not move or moves slowly for very heavy patient.	Heavy patients cause table to malfunction.	Low voltage is being supplied to chair.	Check voltage at wall receptacle - should be 115 +/- 5 VAC for domestic units and 230 +/- 10 VAC for export units.	Correct low voltage situation at wall receptacle.
		Table overloaded with too heavy of a patient.	Maximum weight capacity of table is 300 lbs (136.0 kg).	Inform chair operator of weight limitation.
		Capacitor for suspect function is weak.	Replace suspect capacitor with known working capacitor.	Replace capacitor.
Whirling or squeaking noise is heard when an actuator assembly is being run.	Noisy actuator.	Foreign matter on ball screw threads and / or lack of lubricant.	Check for foreign matter on ball screw threads. Check for lack of lubricant on ball screw threads.	Clean all foreign matter off of ball screw threads. Coat ball screw threads with STP treatment oil or equivalent. If actuator assembly is still noisy, replace.
Foot extension locking mechanism is malfunctioning.	Foot extension does not lock into stowed position or extended position automatically.	Foot extension lock / unlock mechansim is malfunctioning.	Check to see if return spring is present. Check to see if linking rod is present.	Lubricate mechansim with a silicone based lubricant. Replace missing, worn, or broken return spring or linking rod.

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SECTION III
SCHEDULED MAINTENANCE

3.1 Scheduled Maintenance

Table 3-1 is a Scheduled Maintenance Chart which lists the inspections and services that should be performed periodically on the chair. These inspections and services should be performed as often as indicated in the chart.

Table 3-1. Scheduled Maintenance Chart

Interval	Inspection or Service	What to Do
Semi-annually	Obvious damage	Visually check condition of chair for obvious damage such as: cracks in components, missing components, dents in components, or any other visible damage which would cause chair to be unsafe to operate or would compromise its performance. Repair chair as necessary.
	Fasteners/hardware	Check chair for missing or loose fasteners / hardware. Replace any missing hardware and tighten any loose hardware as necessary.
	Warning and instructional decals	Check for missing or illegible decals. Replace decals as necessary.
	Pivot points / moving parts / accessories	Lubricate all exposed pivot points, moving parts, and accessories with silicone based lubricant.
	Foot control	Check that foot control works correctly. Make sure all footswitches operate properly. Replace any malfunctioning footswitches.
	Ball screws of actuator assemblies	Extend each actuator assembly and wipe ball screw threads down with a rag to remove foreign matter. Coat as much of the ball screw threads as possible with STP treatment oil or equivalent. Run each actuator assembly to both ends of its travel a couple of times to spread the oil evenly over all of the ball screw threads and then remove excess oil. If oil does not correct a squealing actuator assembly, replace actuator assembly.
	Inner tube of base actuator	Lubricate inner tube of base actuator with vaseline.
	Drifting of actuator assemblies	Check each actuator assembly for drift. Replace actuator assembly brake components as necessary.
	Foot extension	Check that foot extension automatically locks into stowed and extended positions. Lubricate linkages with a silicone based lubricant.
	Pan safety limit switch	Check that pan safety limit switch is tripped when pan assembly is in fully stowed position. Adjust or replace pan safety limit switch if necessary.
	Electrical receptacle (domestic units only)	Check that the electrical receptacle is functioning properly. Replace receptacle as necessary.
	Upholstery	Check all upholstery for rips, tears, or excessive wear. Replace cushions as necessary.
	Accessories	Check that all accessories have all of their components and that they function properly. If necessary, repair or replace the accessory.
	Operational Test	Perform an Operational Test to determine if the chair is operating within its specifications (Refer to para 2.1). Replace or adjust any malfunctioning components.

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SECTION IV
MAINTENANCE / SERVICE INSTRUCTIONS

4.1 Introduction

Removal, installation, repair, and adjustment procedures for the chair are not available at this time. However, the 413 Chair is very similar to the 415 Chair. Use Section IV of the 413 Service and Parts Manual as a guide for servicing the 415 chair.

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SECTION V
SCHEMATICS AND DIAGRAMS

5.1 Electrical Schematics / Wiring Diagrams

Figures 5-1 and 5-2 illustrate the wiring connections between the electrical components in the chair.

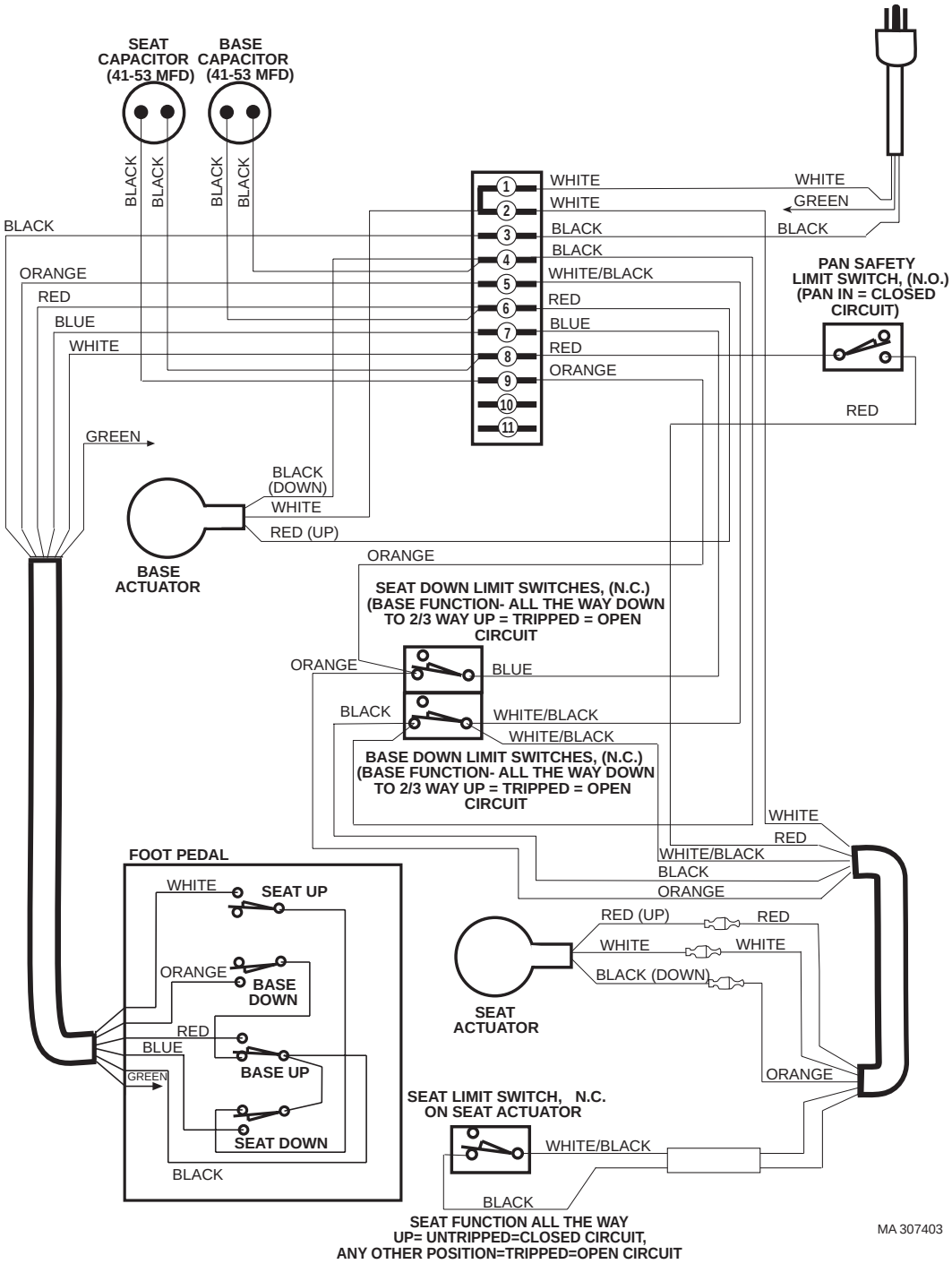

Figure 5-1 (Sheet 1 of 2). Wiring Diagram
(Applies To 115 VAC Domestic Units With Serial Numbers AM-1000 Thru AM-1287

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SCHEMATICS AND DIAGRAMS

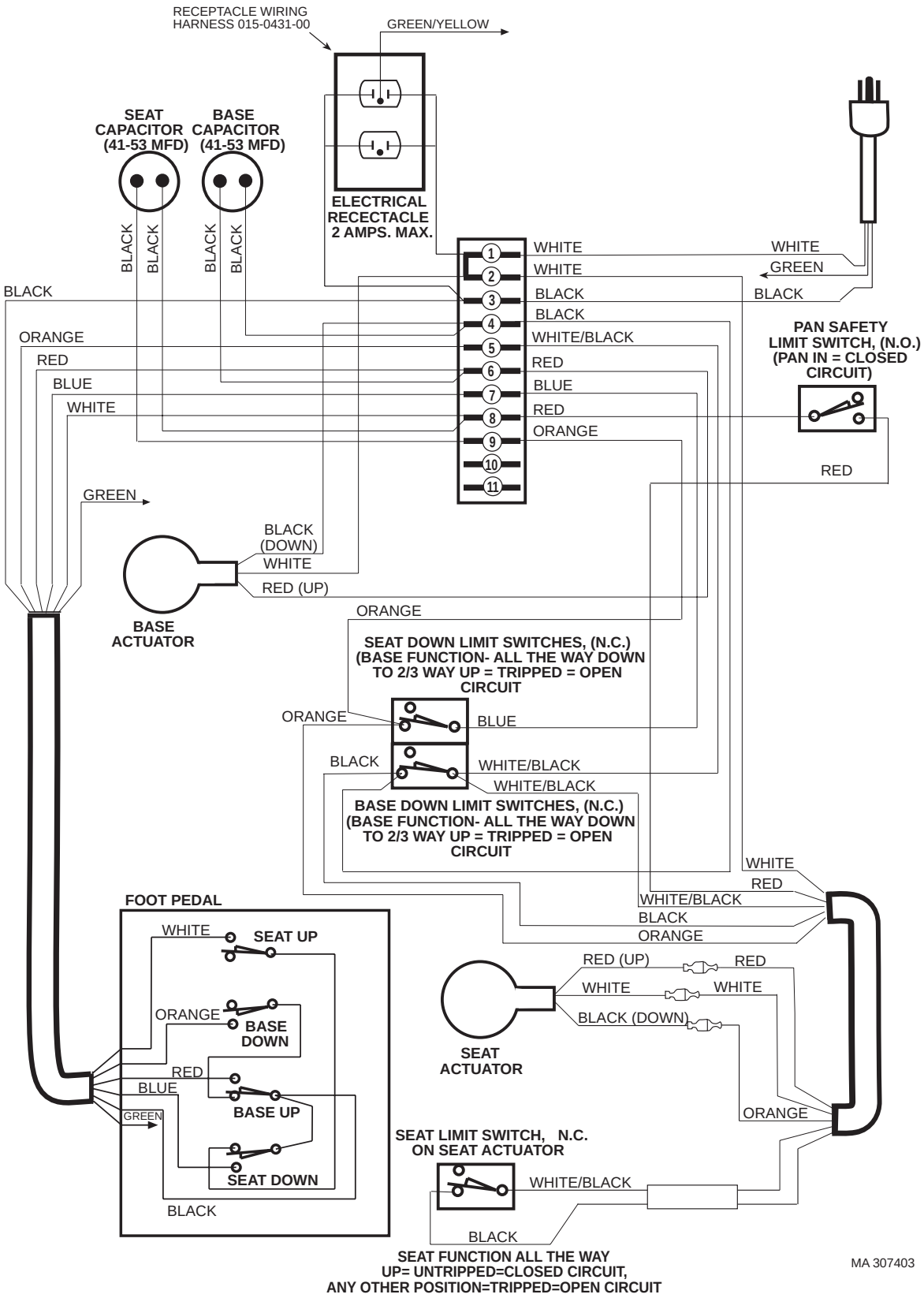

Figure 5-1 (Sheet 2 of 2). Wiring Diagram
(Applies To 115 VAC Domestic Units With Serial Numbers AM-1288 Thru Present)

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SECTION V
SCHEMATICS AND DIAGRAMS

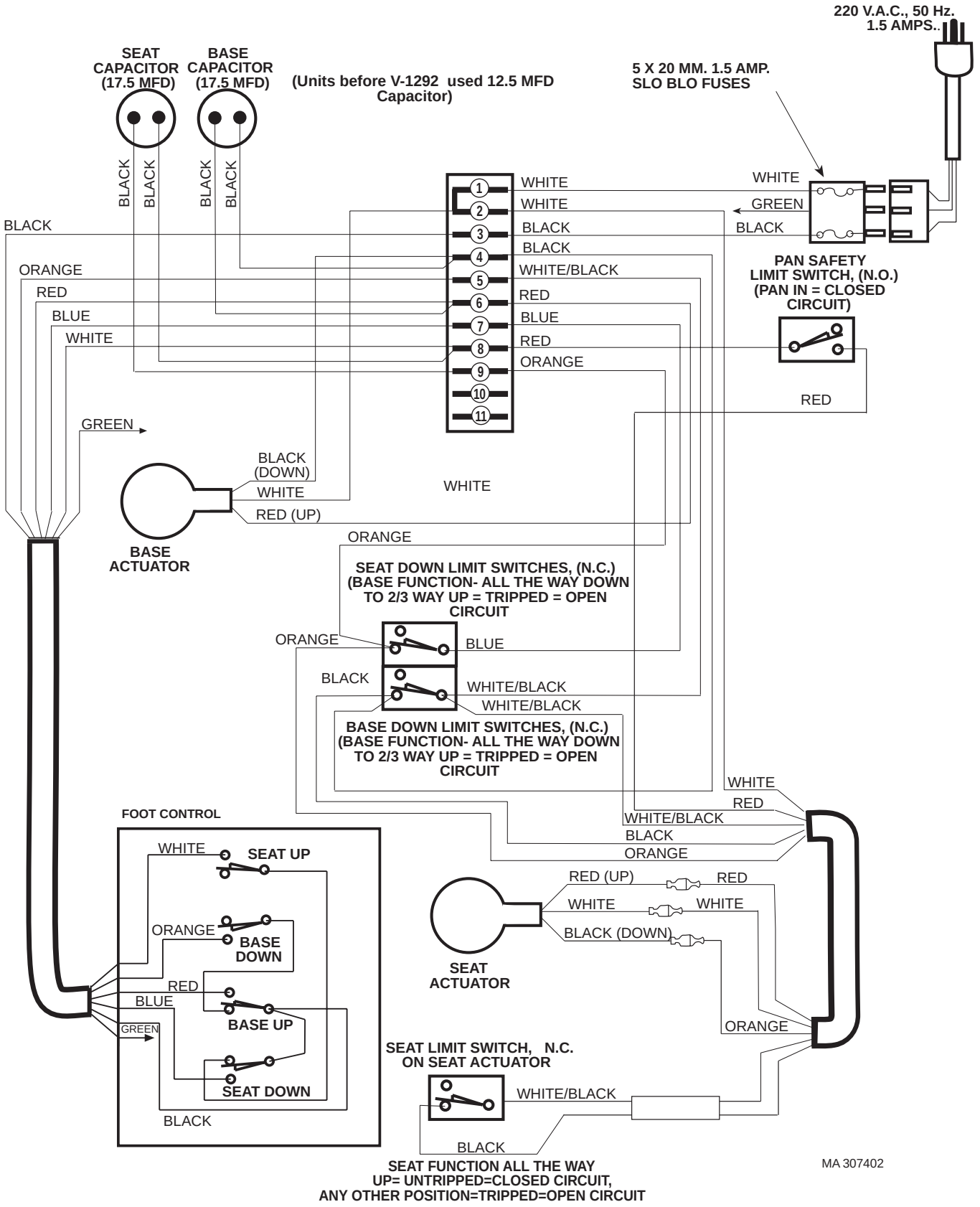

Figure 5-2. Wiring Diagram (Applies To 220 VAC Export Units)

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SECTION VI
PARTS LIST

6.1 Introduction

The illustrated parts list provides information for identifying and ordering the parts necessary to maintain the unit in peak operating condition. Refer to paragraph 1.5 for parts ordering information.

The parts list also illustrates disassembly and assembly relationships of parts.

6.2 Description of Columns

The *Item* column of the parts list gives a component its own unique number. The same number is given to the component in the parts illustration. This allows a part number of a component to be found if the technician can visually spot the part on the illustration. The technician simply finds the component in question on the illustration and notes the item number of that component. Then, he finds that item number in the parts list. The row corresponding to the item number gives the technician the part number, a description of the component, and quantity of parts per subassembly. Also, if a part number is known, the location of that component can be determined by looking for the item number of the component on the illustration.

The *Part No.* column lists the MIDMARK part number for that component.

The *Description* column provides a physical description of the component.

The *Qty.* column lists the number of units of a particular component that is required for the subassembly. The letters “AR” denote “as required” when quantities of a particular component cannot be determined, such as: adhesive.

Bullets [•] in the *Part No.* column and the *Description* column show the indenture level of a component. If a component does not have a bullet, it is a main component of that illustration. If a component has a bullet, it is a subcomponent of the next component listed higher in the parts list than itself that does not have a bullet. Likewise, if a component has two bullets, it is a subcomponent of the next component listed higher in the parts list than itself that has only one bullet.

6.3 Torque Specifications and Important Assembly Notes

When specific assembly torque specifications, measurements, or procedures have been identified, by our engineering department, as required to assure proper function of the unit, those torque specifications measurements, and procedures will be noted on the parts illustrations. Adherence to these requirements is essential.

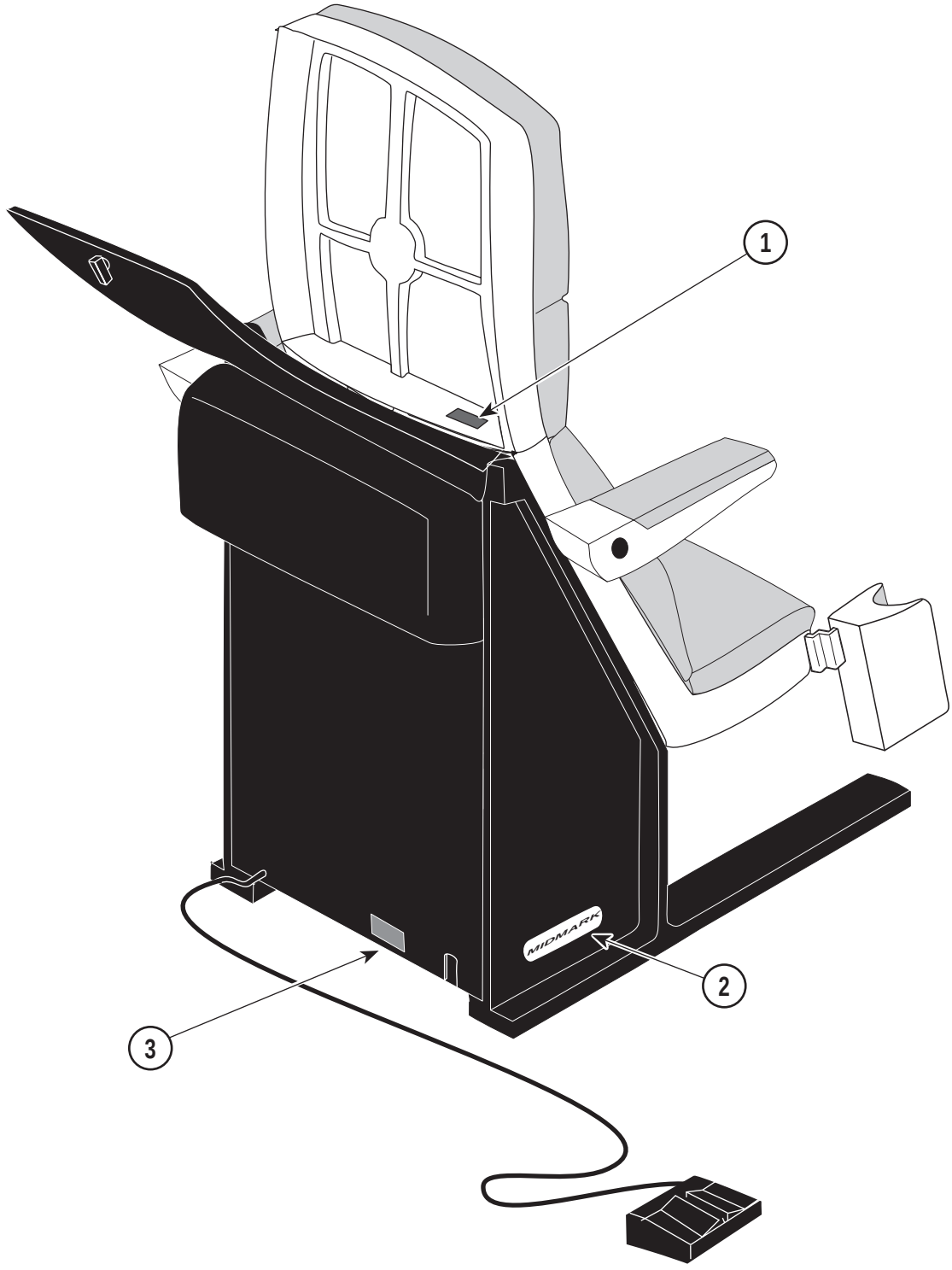
Pictorial Index

MA325600

Always Specify Model & Serial Number

Printed in U.S.A.

Labels and Decals



MA325500

Used On Units With Serial Number AM-1000 thru AM-1288

Item	Part No.	Description	Page
		413 Lithotomy Table	
1	•	Serial Number	1
2	061-0123-12	Nameplate 415	1
3	061-0293-00	Caution Label	1
4	061-0174-00	Receptical Label	1

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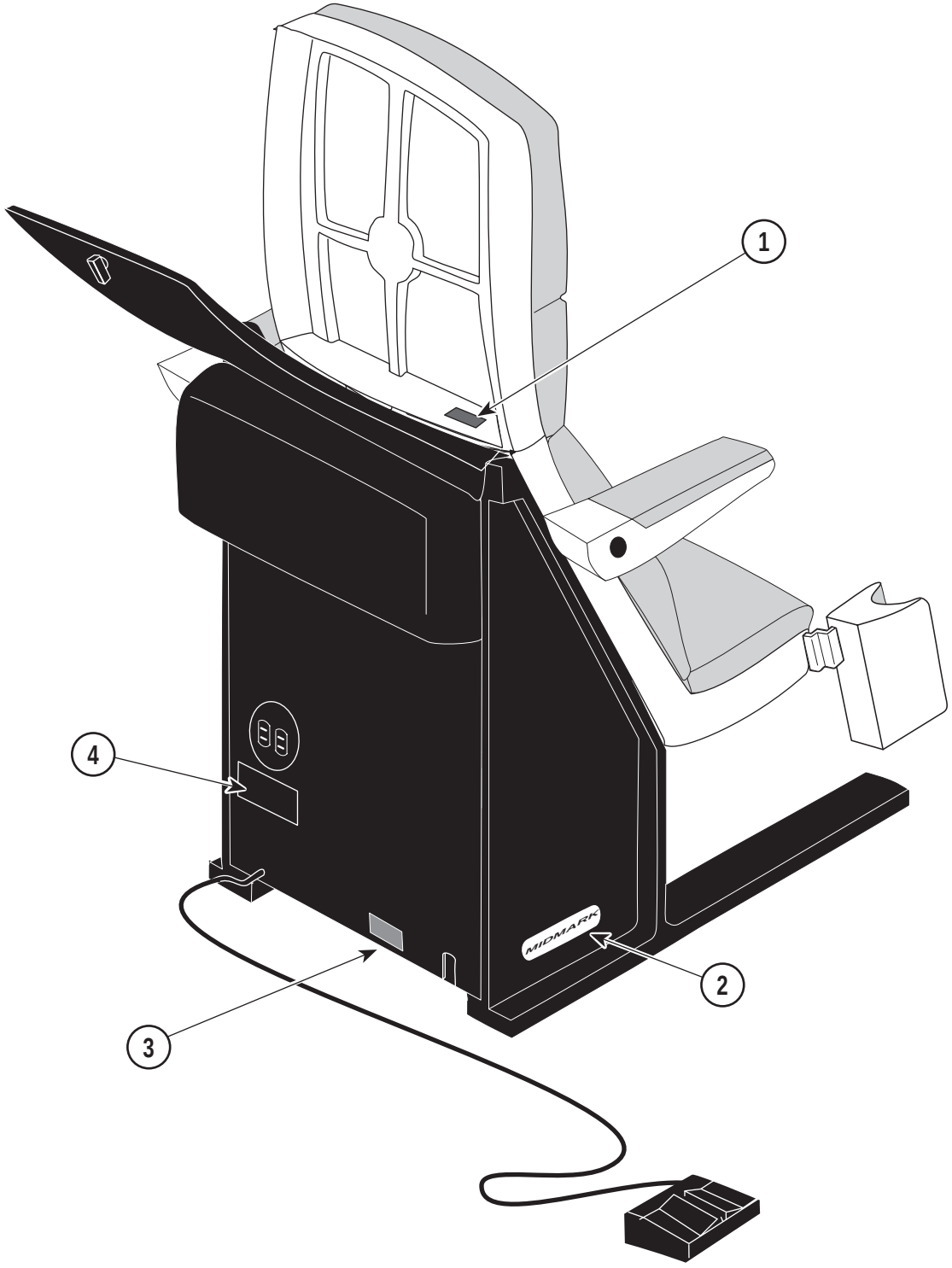
Labels and Decals



MA325500

Used On Units With Serial Number AM-1289 thru Present

Item	Part No.	Description	Page
		413 Lithotomy Table	
1	•	Serial Number	1
2	061-0123-12	Nameplate 415	1
3	061-0293-00	Caution Label	1
4	061-0174-00	Receptical Label	1

Always Specify Model & Serial Number

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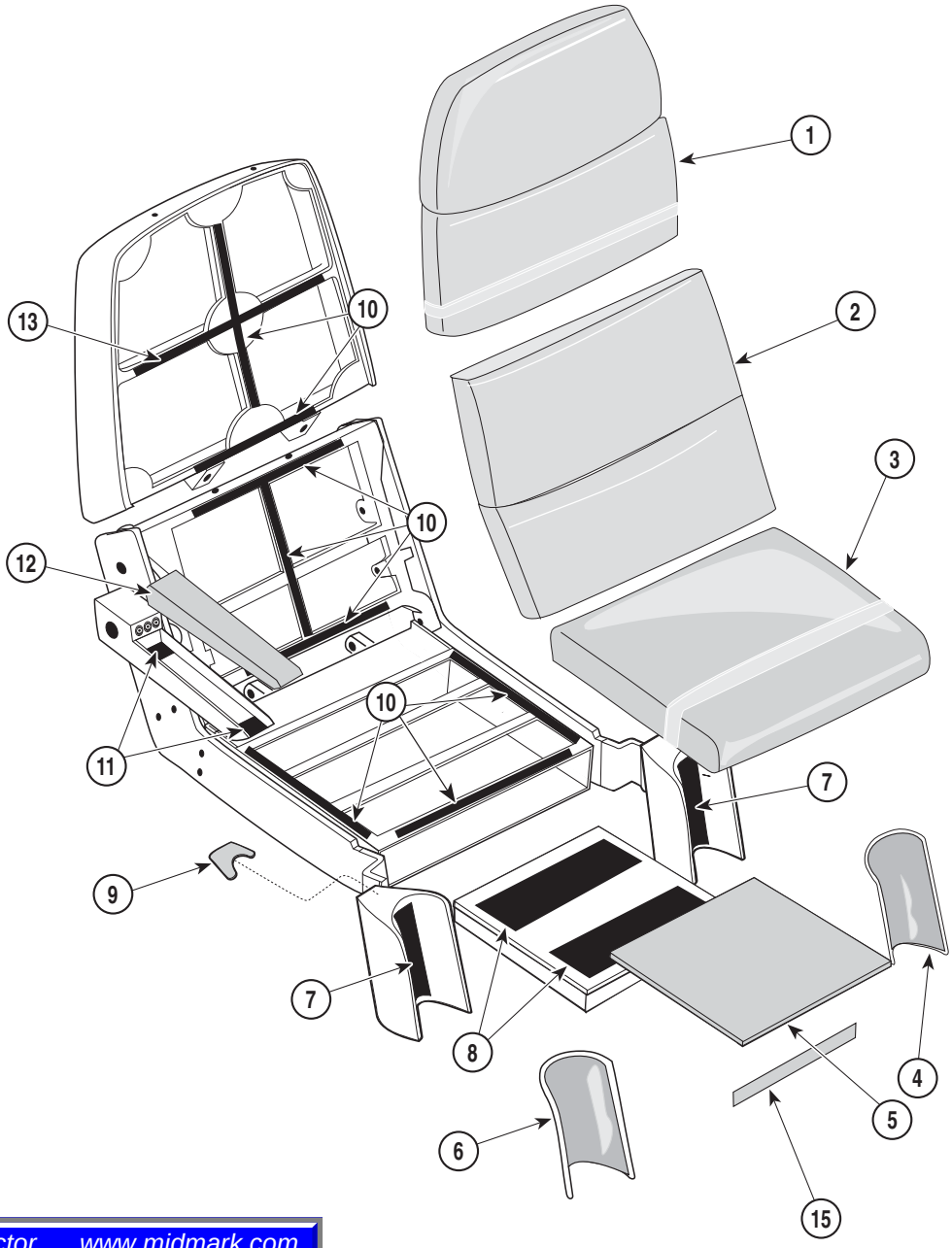
Upholstery



Color Selector.....www.midmark.com

M325400

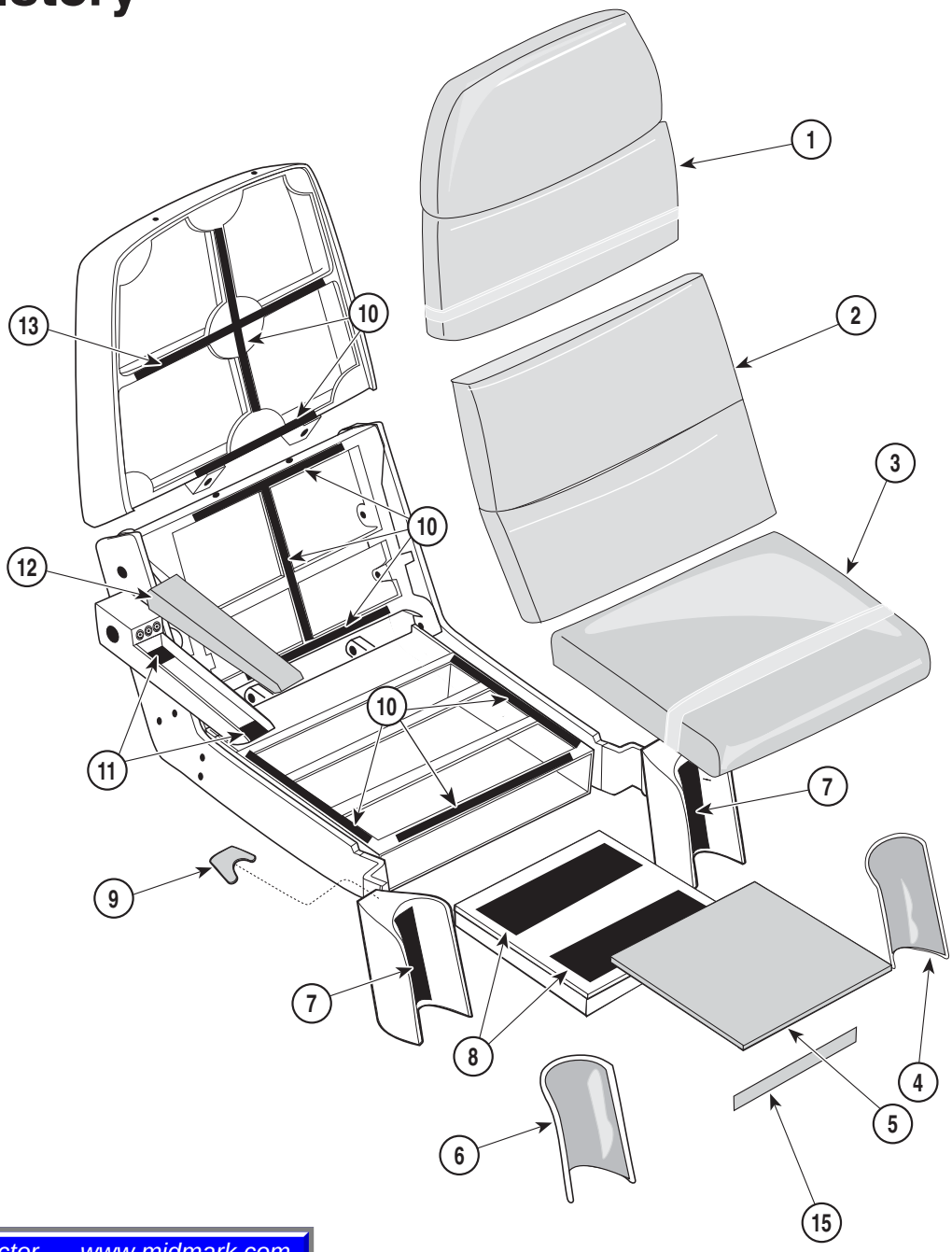
Used On Units With Serial Number AM-1000 thru AM-1620

Item	Part No.	Description	Qty.
•		Upholstery Set (*Specify color)	
1	•028-0105-00	Upholstered Upper Back	1
2	•028-0106-00	Upholstered Lower Back	1
3	•028-0107-00	Upholstered Seat	1
4	028-0110-00	Upholstery Leg Lift L.H.	1
5	•028-0108-00	Upholstery Footrest	1
6	028-0110-01	Upholstery Leg Lift R.H.	1
7	053-0131-01	Velcro Tape	2
8	053-0131-02	Velcro Tape 2" X 12"	2
9	028-0110-00	Leg Pad R.H.	1
	028-0110-01	Leg Pad L.H.	1
10	053-0131-07	Velcro Tape 3/4" x 12"	8
11	053-0131-00	Velcro Tape 2" x 2"	4
12	•028-0109-00	•Upholstered Arm	2
13	053-0131-05	Velcro Tape 3/4" x 15" (Item #13 must be cut in two pieces)	1
14	029-0452-00	Paper Tear Straps	2
15	•028-0111-00	•Shelf Front	1

* Click on the Color Selector link above to see available colors.

Always Specify Model & Serial Number

Upholstery



Color Selector.....www.midmark.com

M325400

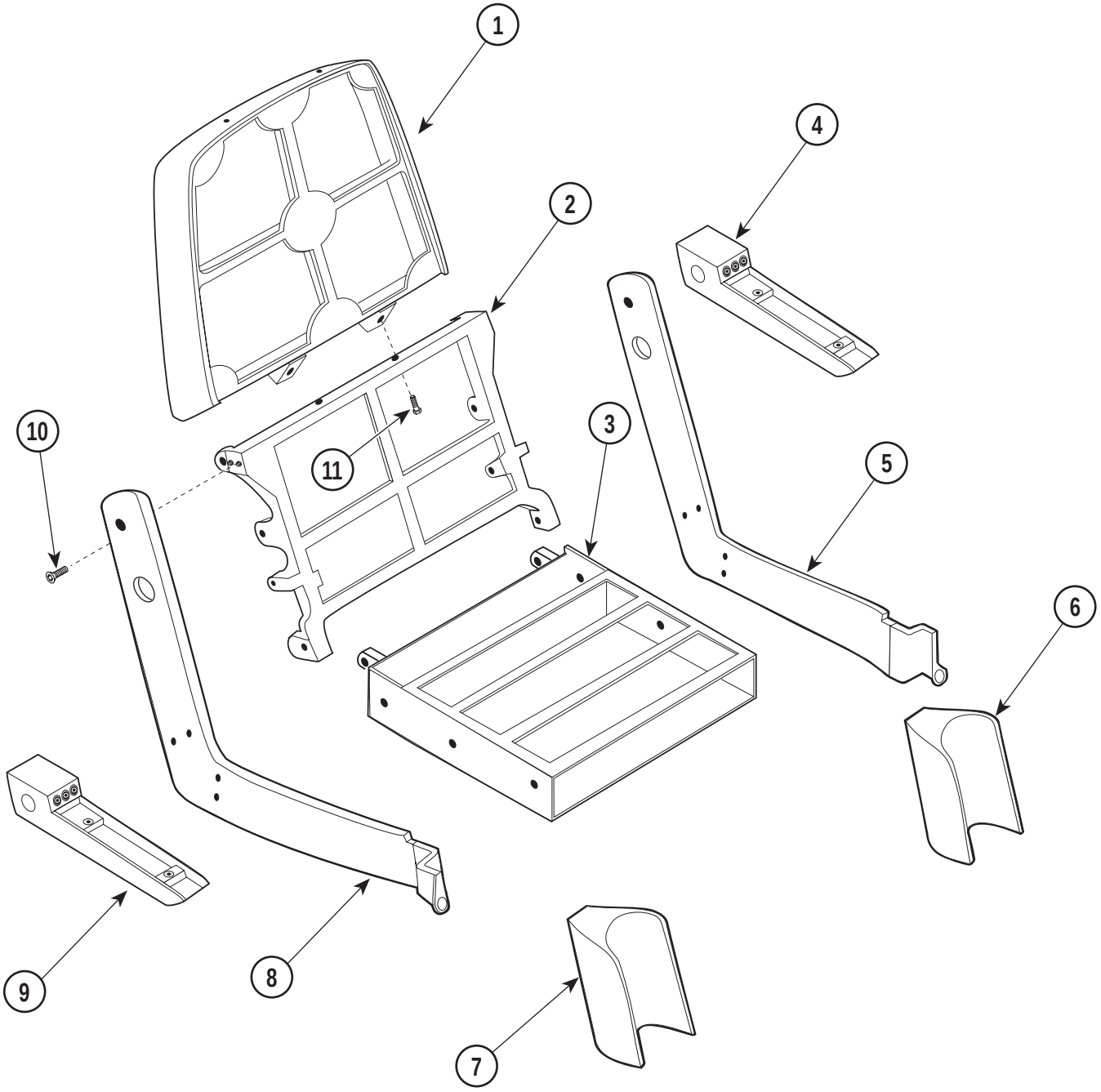
Used On Units With Serial Number AM-1621 thru Present

Item	Part No.	Description	Qty.
	• 029-0552-00	Upholstery Set (*Specify color)	
1	• 028-0105-00	•Upholstered Upper Back	1
2	• 028-0153-00	•Upholstered Lower Back	1
3	• 028-0152-00	•Upholstered Seat	1
4	028-0150-00	Upholstery Leg Lift L.H.	1
5	• 028-0108-00	•Upholstery Footrest	1
6	028-0151-00	Upholstery Leg Lift R.H.	1
7	053-0131-01	Velcro Tape	2
8	053-0131-02	Velcro Tape 2" X 12"	2
9	028-0110-00	Leg Pad R.H.	1
	028-0110-01	Leg Pad L.H.	1
10	053-0131-07	Velcro Tape 3/4" x 12"	8
11	053-0131-00	Velcro Tape 2" x 2"	4
12	• 028-0109-00	•Upholstered Arm	2
13	053-0131-05	Velcro Tape 3/4" x 15" (Item #13 must be cut in two pieces)	1
14	029-0452-00	Paper Tear Straps	2
15	• 028-0111-00	•Shelf Front	1

* Click on the Color Selector link above to see available colors.

Always Specify Model & Serial Number

Main Frame Section



MA324900

Used On Units With Serial Number AM-1000 thru AM-1620

Item	Part No.	Description	Qty.
1	020-0039-00	Upper Back Casting	1
2	020-0040-00	Lower Back Casting	1
3	030-0363-00	Seat Weldment	1
	029-0448-01	Arm/Leg Assembly L.H.	
4	•020-0037-01	•Arm Casting L.H.	1
5	•020-0038-01	•Arm/Leg Casting L.H.	1
6	•020-0041-01	•Leg Rest Casting L.H.	1
	029-0448-00	Arm/Leg Assembly R.H.	
7	•020-0041-00	•Leg Rest Casting R.H.	1
8	•020-0038-00	•Arm/Leg Casting R.H.	1
9	•020-0037-00	•Arm Casting R.H.	1
10	040-0250-51	Screw	10
11	040-0500-01	Shoulder Bolt	2
12	040-0250-65	Bolt	4

Always Specify Model & Serial Number

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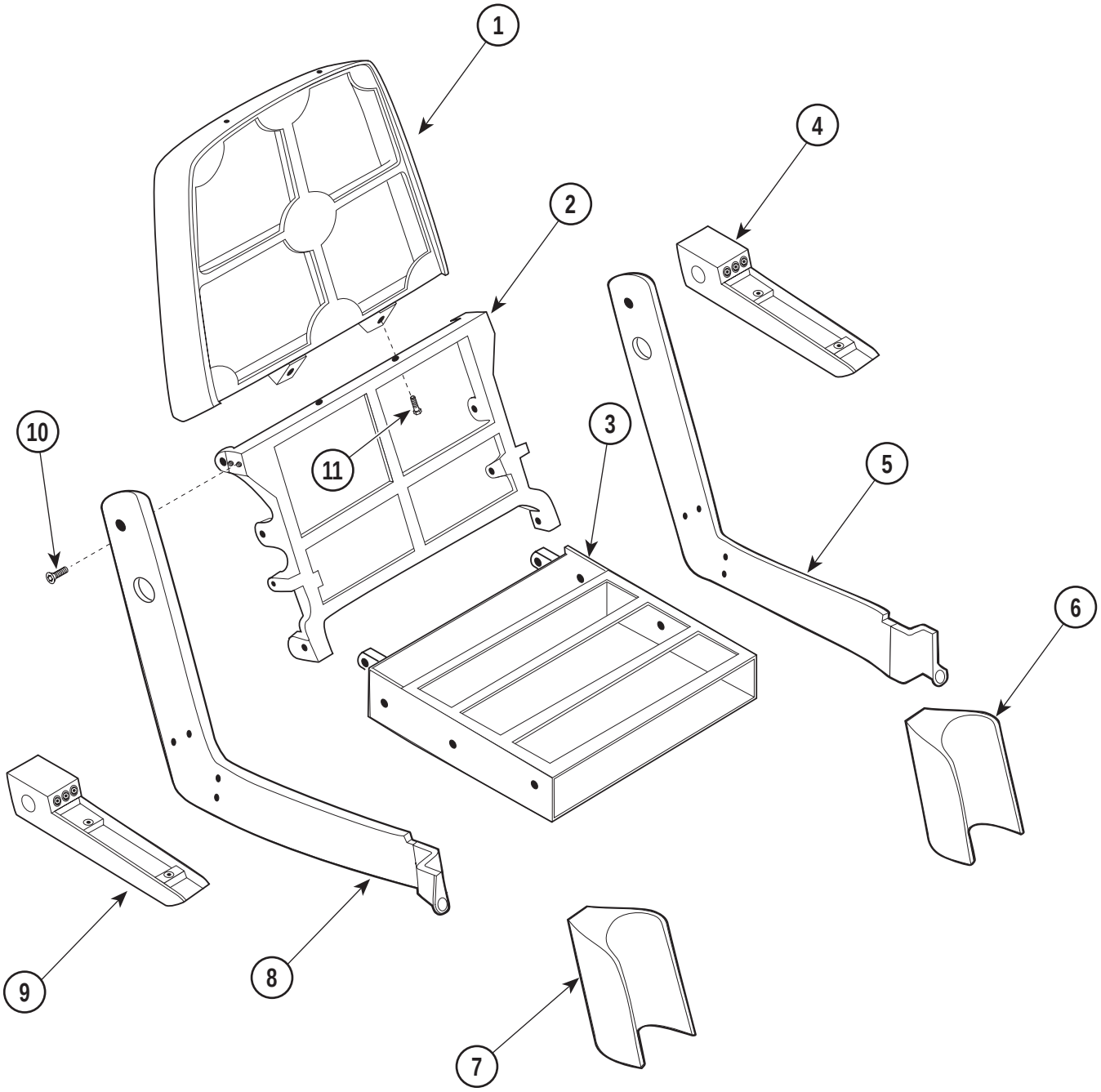
Main Frame Section



MA324900

Used On Units With Serial Number AM-1621 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	020-0039-00	Upper Back Casting	1		029-0551-00	Arm/Leg Assembly R.H.	
2	020-0040-00	Lower Back Casting	1	7	•020-0047-00	•Leg Rest Casting R.H.	1
3	030-0363-00	Seat Weldment	1	8	•020-0048-00	•Arm/Leg Casting R.H.	1
	029-0551-01	Arm/Leg Assembly L.H.		9	•020-0037-00	•Arm Casting R.H.	1
4	•020-0037-01	•Arm Casting L.H.	1	10	040-0250-51	Screw	10
5	•020-0048-01	•Arm/Leg Casting L.H.	1	11	040-0500-01	Shoulder Bolt	2
6	•020-0047-01	•Leg Rest Casting L.H.	1	12	040-0250-65	Bolt	4

Always Specify Model & Serial Number

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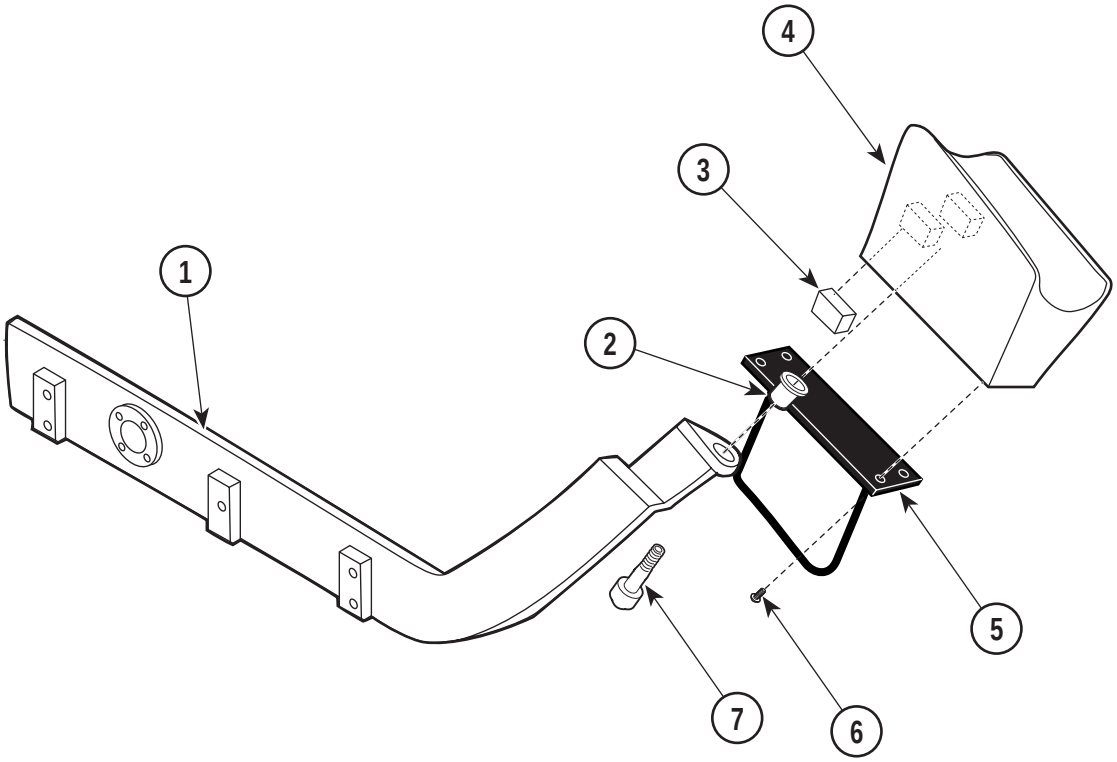
Leg Stirrup Assembly

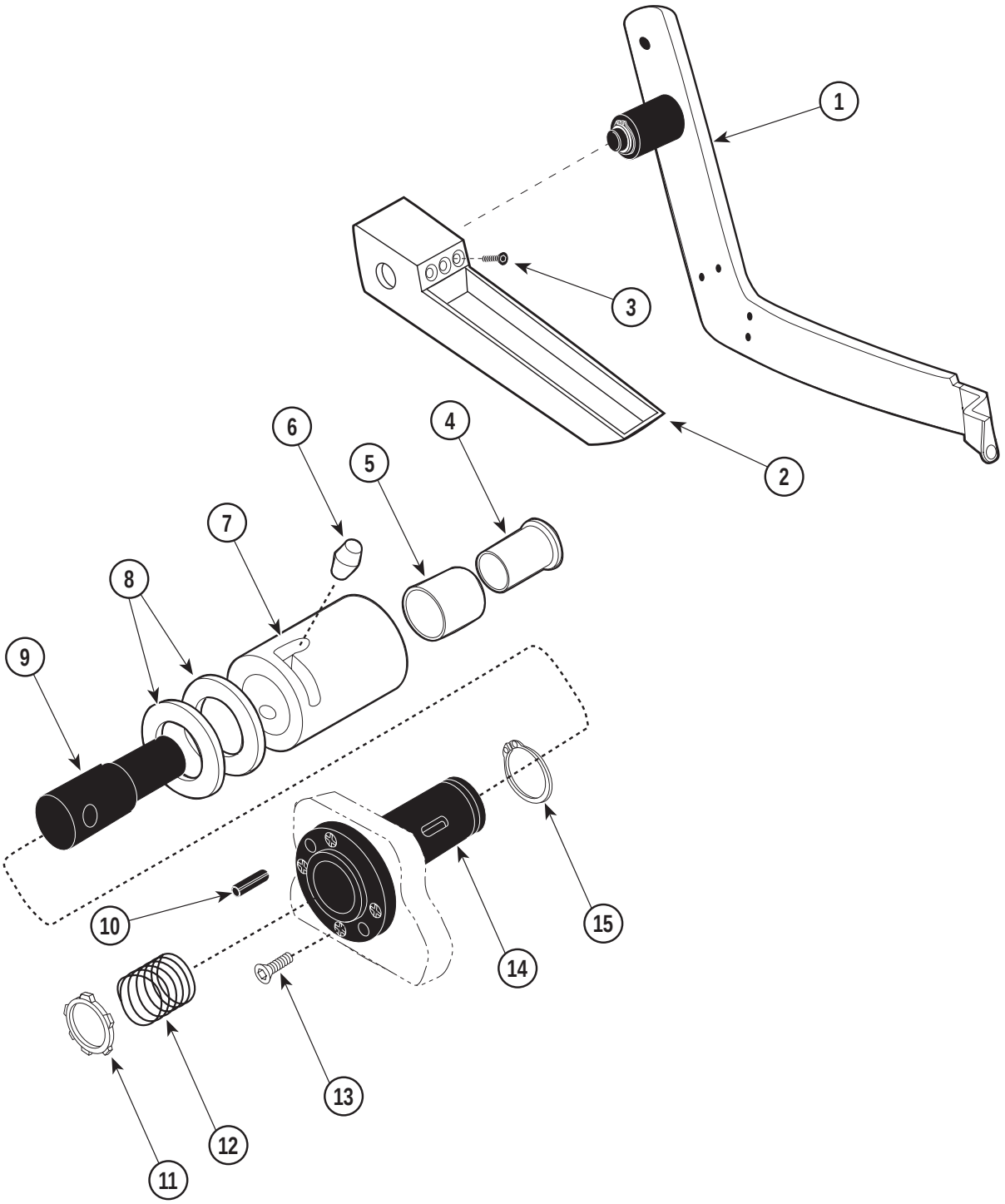


MA326000

Item	Part No.	Description	Qty.
1		Arm/Leg Casting L.H.(Refer to "Main Frame Section" Elsewhere)	Ref
2	016-0131-05	Flanged Bearing	1
3	054-0067-03	Sound Damp	1
4		Leg Rest Casting L.H. (Refer to "Main Frame Section" Elsewhere)	Ref
5	030-0374-00	Leg Guard	1
6	040-0006-10	Screw	4
7	042-0014-13	Bolt	1

Always Specify Model & Serial Number

Arm Rest Assembly



MA324800

Item	Part No.	Description	Qty.
1		Arm/Leg Assembly (Refer to "Main Frame Assembly" Elsewhere)	Ref
2		Arm Casting (Refer to "Main Frame Assembly" Elsewhere)	Ref
3	040-0250-52	Screw	3
4	053-0184-00	Flanged Bearing	1
5	016-0220-00	Bushing	1
6	042-0046-01	Groove Pin	1
7	052-0092-00	Latch Tube	1
8	045-0007-00	Nylon washer	2
9	057-0146-00	Push Button	1
10	042-0001-06	Roll Pin	1
11	042-0055-00	Retaining Ring	1
12	025-0029-00	Spring	1
13	040-0250-33	Screw	4
14	030-0651-00	Arm Post Weldment	1
15	042-0054-00	Retaining Ring	1

Always Specify Model & Serial Number

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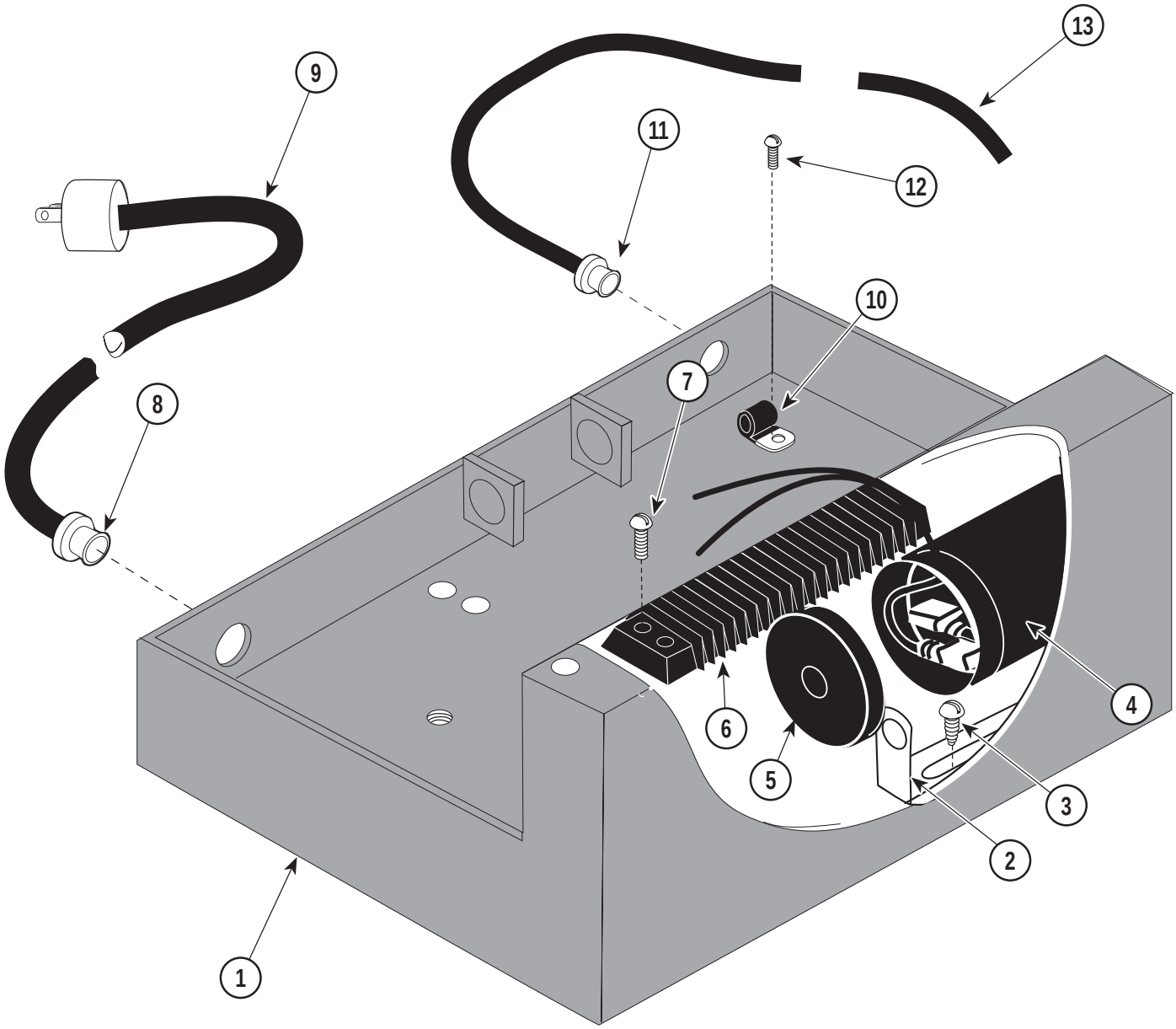
Cross Support



MA306100

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	030-0359-00	Cross Support Weldment	1	7	040-0010-47	Screw	4
2	015-0412-00	Mounting Bracket	2	8	015-0002-01	Strain Relief	1
3	040-0010-27	Screw	4	9	015-0066-02	Power Cord	1
4	015-0437-00	Capacitor	2	10	015-0001-00	Wire Clamp	2
5	015-0413-01	Capacitor Cap	2	11	015-0002-02	Strain Relief	1
6	015-0009-01	Terminal Block	1	12	040-0010-12	Screw	1

Always Specify Model & Serial Number

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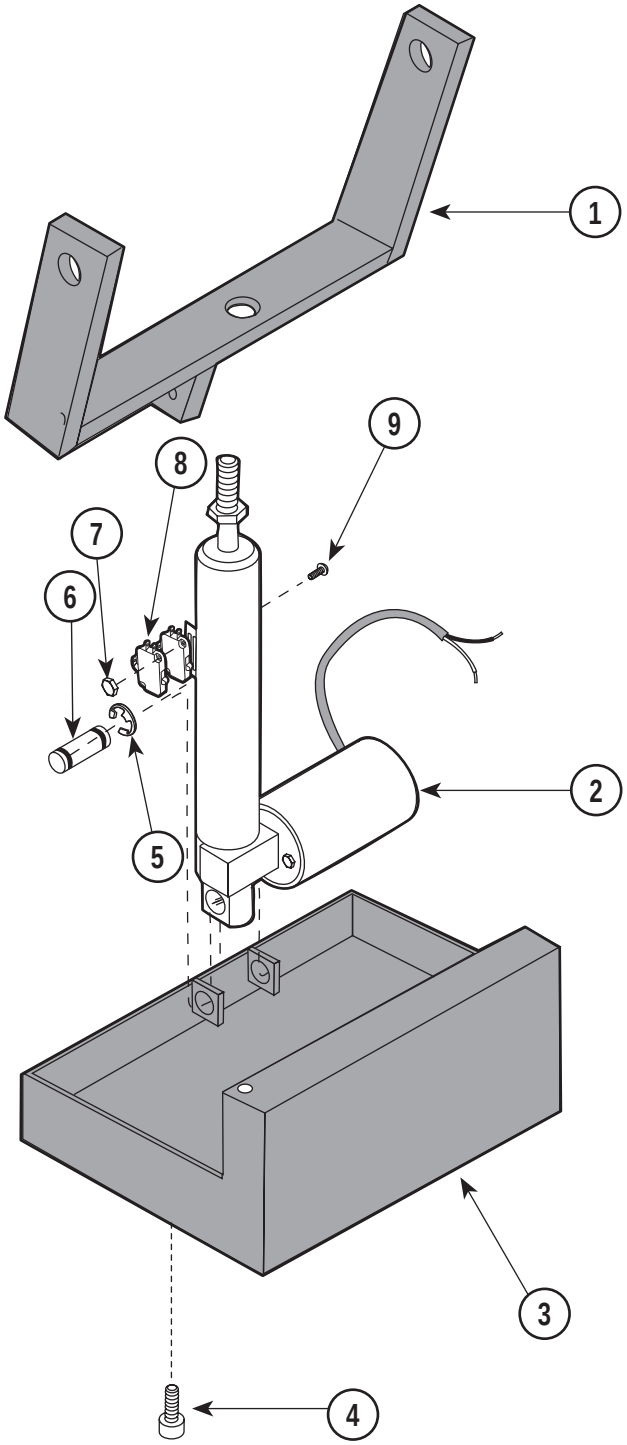
Base Components

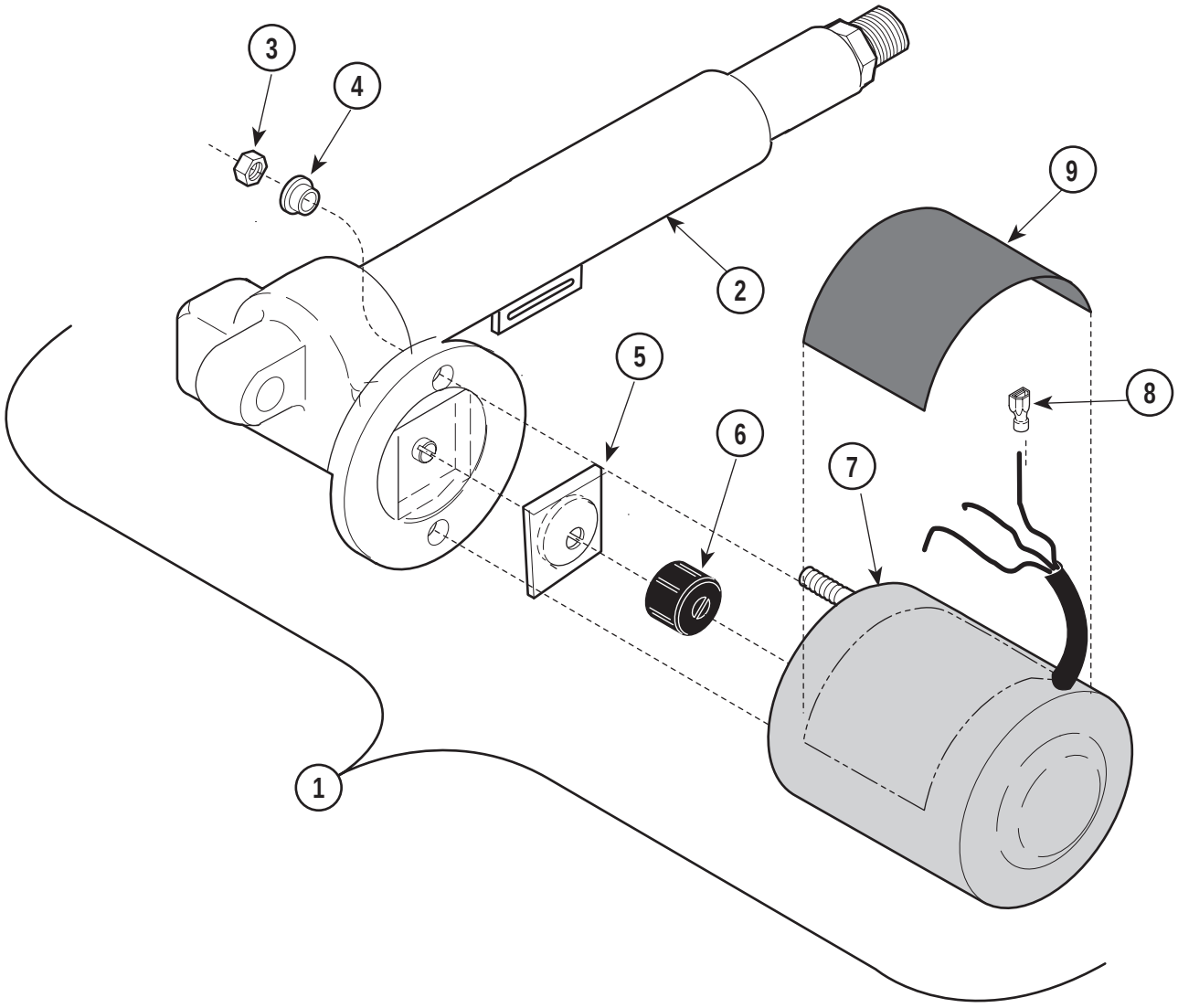


MA325701

Item	Part No.	Description	Qty.
1	030-0365-01	Yoke Weldment (Loctite 2620)	1
2		Actuator (Refer to "Actuator Components" Elsewhere)	Ref
3		Cross Support (Refer to "Cross Support" Elsewhere)	Ref
4	042-0312-25	Bolt (Whizlock)	1
5	042-0007-02	E-ring	2
6	042-0048-00	Clevis Pin	1
7	041-0004-01	Nut	2
8	015-0430-00	Switch	2
9	040-0004-07	Screw	2

Always Specify Model & Serial Number

Base Actuator



MA306600

Item	Part No.	Description	Qty.
1	002-0596-02	Base Actuator Assembly - Domestic - (Includes Item 2-8)	1
	002-0596-03	Base Actuator Assembly - Export - (Includes Items 2-8)	1
2	• 016-0214-04	• Base Actuator (Less Motor)	1
3	•	• Nut	2
4	• 053-0198-00	• Shoulder Washer	2
5	• 016-0237-00	• Actuator Brake	1
6	• 016-0509-00	• Motor Coupler	1
7	• 002-0574-00	• Actuator Motor (Domestic)	1
	• 002-0574-01	• Actuator Motor (Export)	1
8	• 015-0018-03	• Terminal	3
9	061-0135-00	Caution Label	1

Always Specify Model & Serial Number

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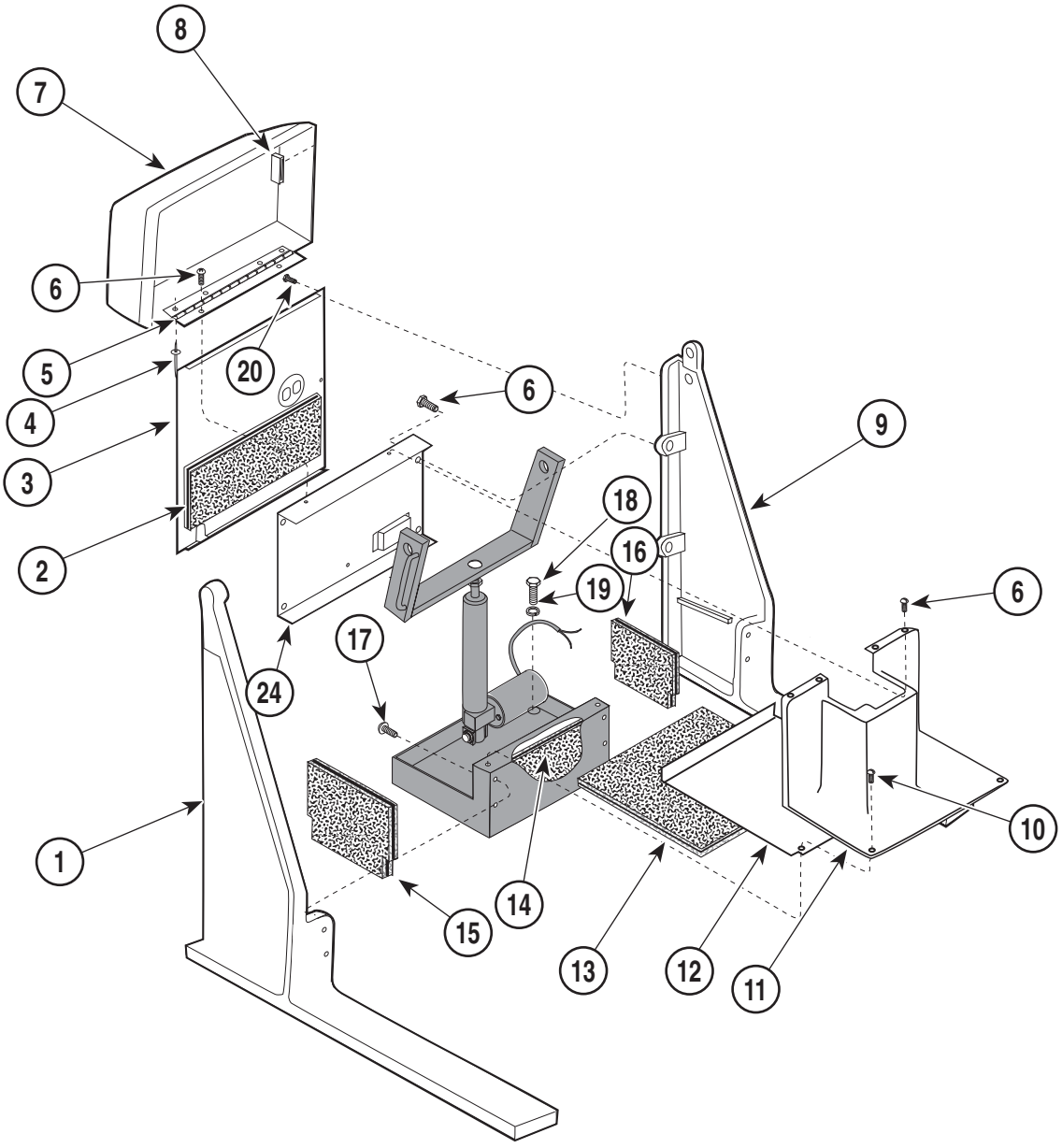
Base and Panels



MA325300

Used On Units With Serial Number AM-1000 thru AM-1287

Item	Part No.	Description	Qty.
1	020-0036-00	R.H. Side Upright	1
2	054-0087-00	Sound Damp Back	1
3	050-1053-00	Back Shroud w/Recepticle	1
4	042-0010-02	Pop Rivet	3
5	*N. L. A.*	Hinge	1
6	040-0375-00	Bolt	4
7	053-0183-00	Pan Cover	1
8	016-0092-00	Magnet	2
9	020-0036-01	L.H. Side Upright	1
10	040-0006-33	Screw	2
11	053-0181-00	Base Cover	1
12	050-1055-00	Inner Shroud	1
13	054-0086-00	Sound Damp Top	1
14	054-0085-00	Sound Damp Front	1
15	054-0088-00	Sound Damp Sides	2
16	050-1042-00	Channel Back	1
17	040-0250- 88	Screw w/whizlock	4
18	040-0500-00	Bolt	6
19	045-0001-33	Washer	6
20	040-0008-06	Screw	16

N.L.A. Denotes "No Longer Available"
Always Specify Model & Serial Number

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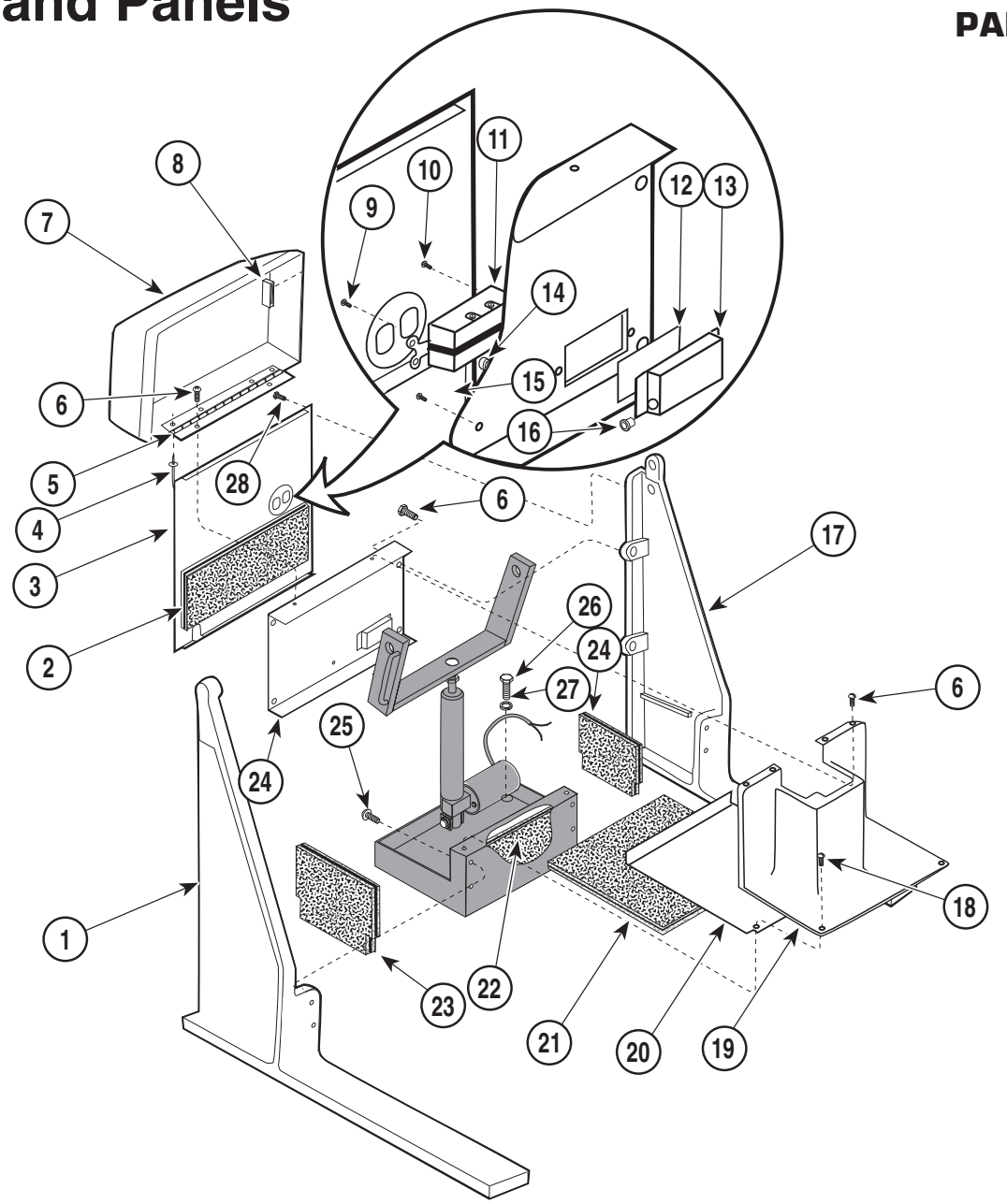
Base and Panels



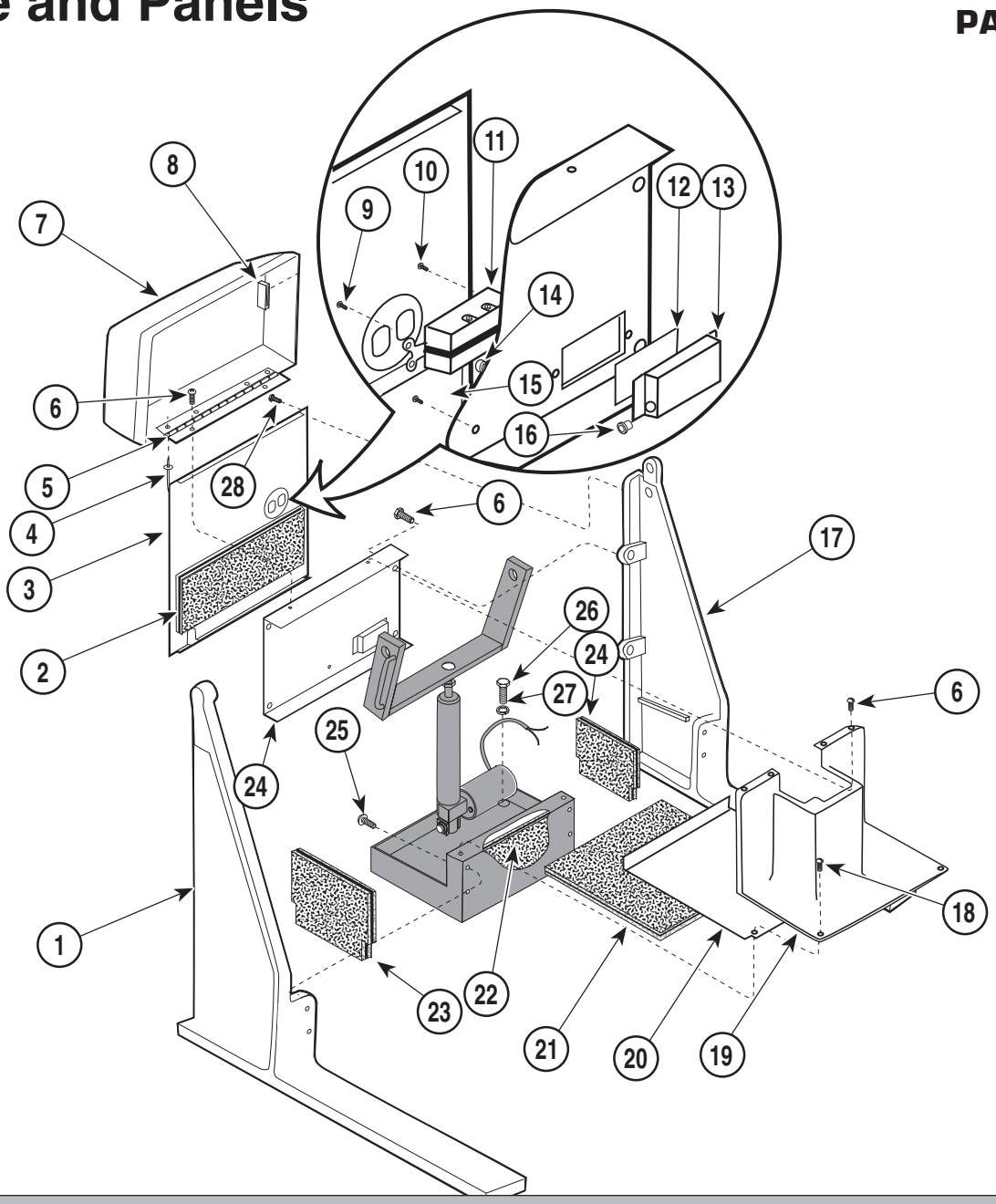
MA306300

Used On Units With Serial Number AM-1288 thru AM-1391

Item	Part No.	Description	Qty.
1	020-0036-00	R.H. Side Upright	1
2	054-0087-00	Sound Damp Back	1
3	050-1053-01	Back Shroud w/Recepticle	1
4	042-0010-02	Pop Rivet	3
5	*N.L.A.*	Hinge	1
6	040-0375-00	Bolt	4
7	053-0183-00	Pan Cover	1
8	016-0092-00	Magnet	2
9	040-0006-23	Screw	1
10	040-0006-34	Screw	2
11	015-0083-01	Recepticle	1
12	053-0092-00	Insulator	1
13	050-1068-00	Wire Cover	1
14	016-0148-01	Spacer	2
15	040-0010-47	Screw	2
16	053-0068-07	Snap Bushing	1
17	020-0036-01	L.H. Side Upright	1
18	040-0006-33	Screw	2
19	053-0181-00	Base Cover	1
20	050-1055-00	Inner Shroud	1
21	054-0086-00	Sound Damp Top	1
22	054-0085-00	Sound Damp Front	1
23	054-0088-00	Sound Damp Sides	2
24	050-1042-00	Channel Back	1
25	040-0250- 88	Screw w/whizlock	4
26	040-0500-00	Bolt	6
27	045-0001-33	Washer	6
28	040-0008-06	Screw	16

N.L.A. Denotes "No Longer Available"
Always Specify Model & Serial Number

Base and Panels



MA306300

Used On Units With Serial Number AM-1390 thru Present

Item	Part No.	Description	Qty.
1	020-0036-00	R.H. Side Upright	1
2	054-0087-00	Sound Damp Back	1
3	050-1053-01	Back Shroud w/Receptacle	1
4	042-0010-02	Pop Rivet	3
5	*N.L.A.*	Hinge	1
6	040-0375-00	Bolt	4
7	053-0183-01	Pan Cover	1
8	016-0092-00	Magnet	2
9	040-0006-23	Screw	1
10	040-0006-34	Screw	2
11	015-0083-01	Receptacle	1
12	053-0092-00	Insulator	1
13	050-1068-00	Wire Cover	1
14	016-0148-01	Spacer	2
15	040-0010-47	Screw	2
16	053-0068-07	Snap Bushing	1
17	020-0036-01	L.H. Side Upright	1
18	040-0006-33	Screw	2
19	053-0181-00	Base Cover	1
20	050-1055-00	Inner Shroud	1
21	054-0086-00	Sound Damp Top	1
22	054-0085-00	Sound Damp Front	1
23	054-0088-00	Sound Damp Sides	2
24	050-1042-00	Channel Back	1
25	040-0250- 88	Screw w/whizlock	4
26	040-0500-00	Bolt	6
27	045-0001-33	Washer	6
28	040-0008-06	Screw	16

N.L.A. Denotes "No Longer Available"
Always Specify Model & Serial Number

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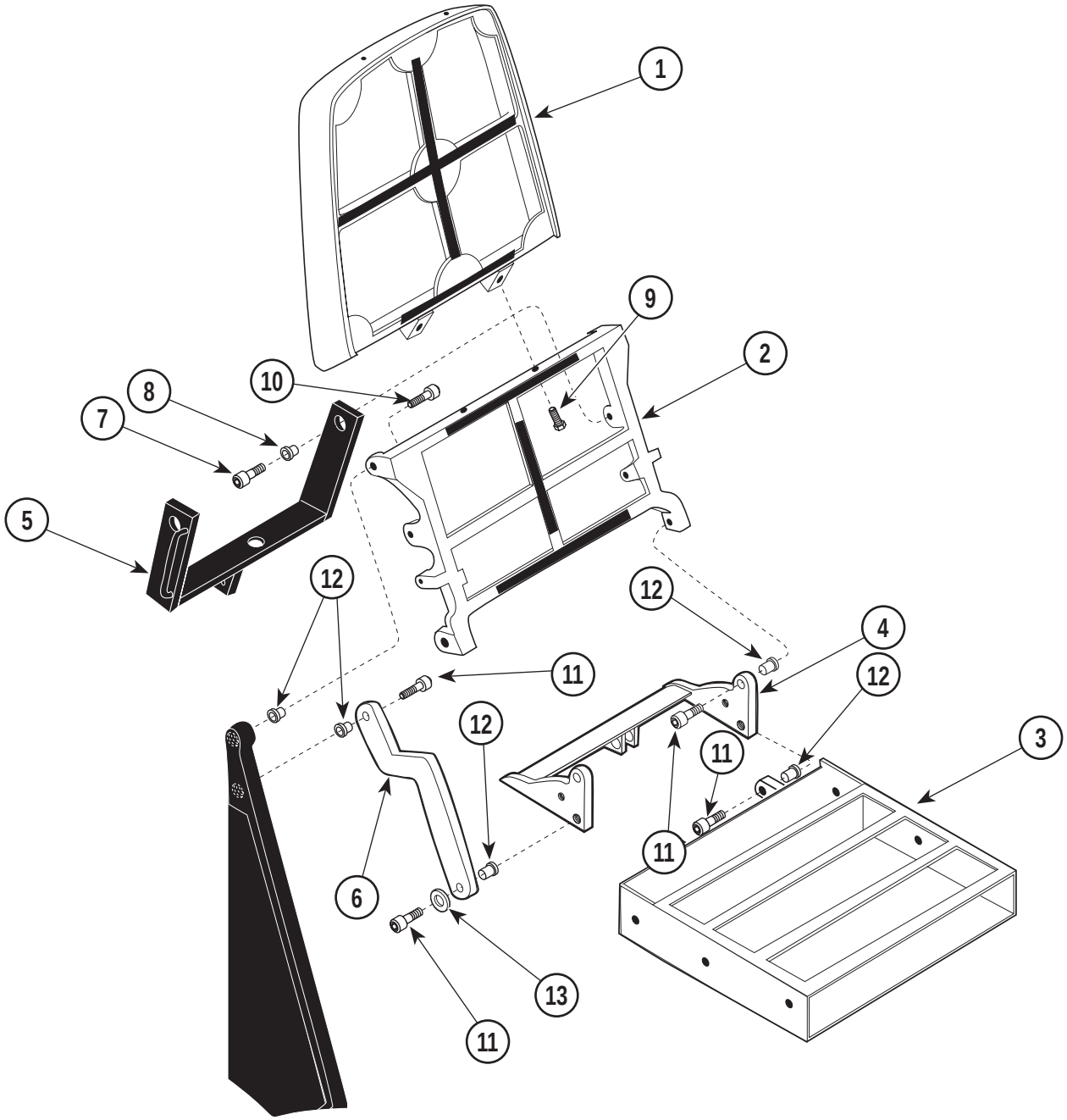
Linkage Assembly



MA325200

Item	Part No.	Description	Qty.
1		Upper Back (Refer to "Main Frame Section" Elsewhere)	Ref
2		Lower Back (Refer to "Main Frame Section" Elsewhere)	Ref
3		Seat Weldment (Refer to "Main Frame Section" Elsewhere)	Ref
4	030-0364-00	Pivot Frame	1
5		Yoke Weldment (Refer to "Main Frame Section" Elsewhere)	Ref
6	050-1054-00	Link	2
7	042-0014-00	Shoulder Bolt	2
8	016-0076-00	Bushing	2
9	040-0500-01	Bolt	2
10	042-0014-11	Shoulder Bolt	2
11	042-0014-05	Shoulder Bolt	8
12	016-0131-04	Flanged Bearing	10
13	045-0001-37	Washer	2

Always Specify Model & Serial Number

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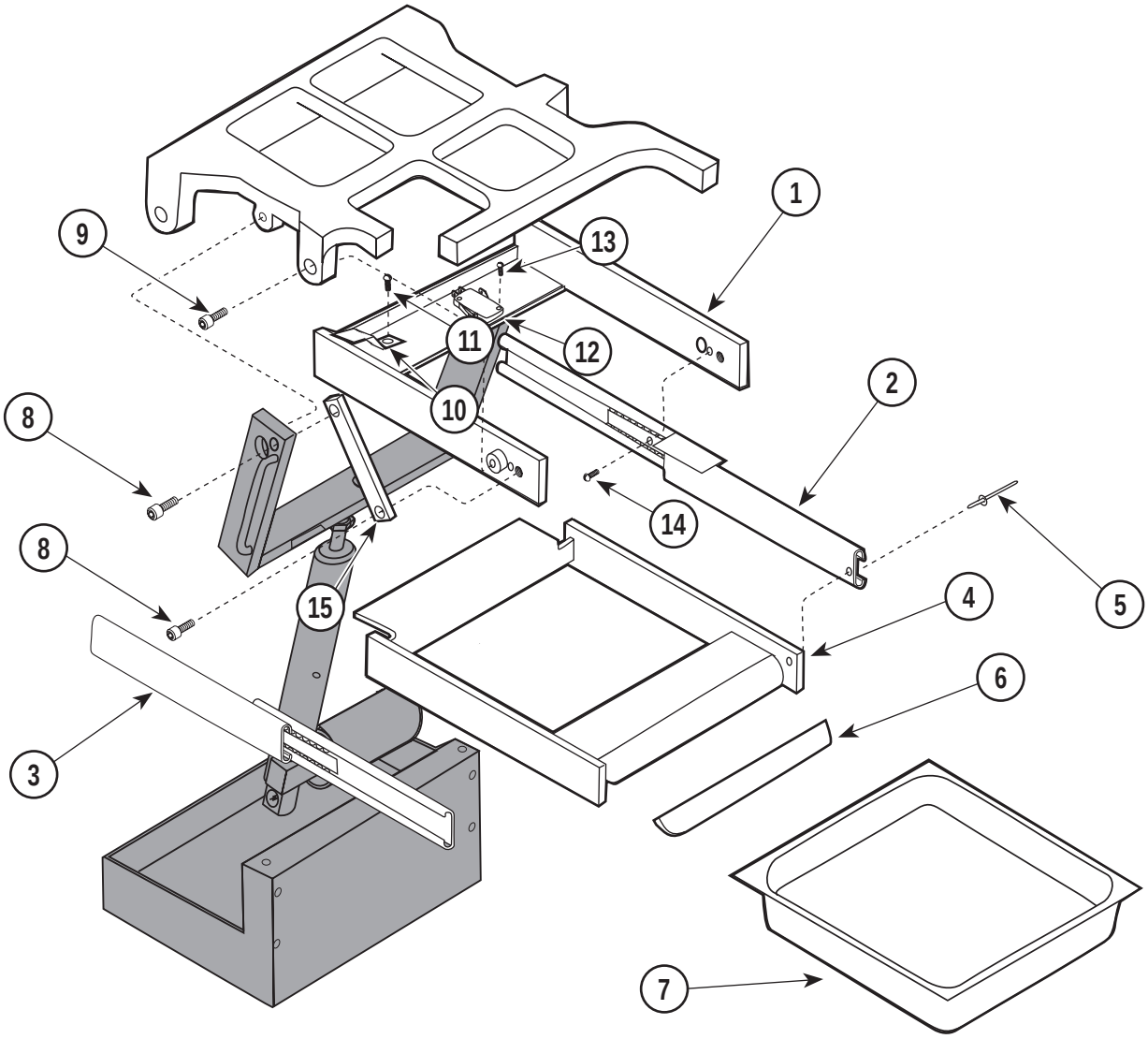
Pan Assembly



MA325800

Used On Units With Serial Number AM-1000 thru AM-1438

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	029-0450-00	Pan Assembly		8	• 042-0014-12	• Shoulder Bolt	4
1	• 030-0368-01	• Pan Mount Weldment	1	9	• 042-0014-04	• Shoulder Bolt	2
2	• 016-0215-00	• Pan Slide R.H.	1	10	• 050-1514-00	• Wire Guard	1
3	• 016-0215-01	• Pan Slide L.H.	1	11	• 040-0010-47	• Screw	1
4	• 030-0716-01	• Pan Holder Weldment	1	12	• 015-0430-00	• Switch	1
5	• 042-0010-03	• Pop Rivet	4	13	• 040-0004-09	• Screw	2
6	• 053-0349-01	• Cover Handle	1	14	• 040-0008-09	• Screw	6
7	• 016-0222-00	• Pan	1	15	051-0349-00	Pivot Link	2

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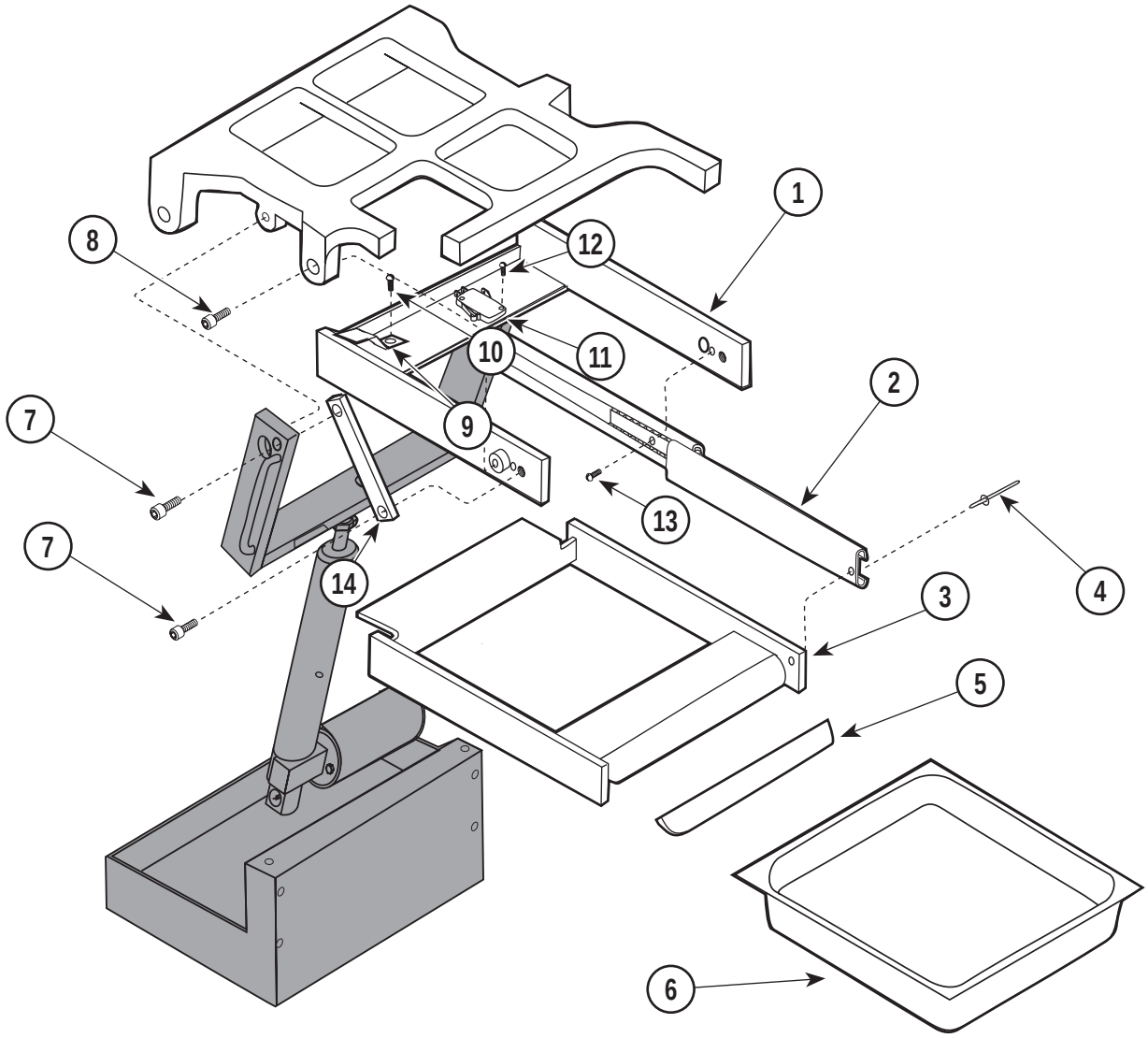
Pan Assembly



MA325800

Used On Units With Serial Number AM-1439 thru AM-1963

Item	Part No.	Description	Qty.
	029-0450-00	Pan Assembly	
1	• 030-0368-01	• Pan Mount Weldment	1
2	• 016-0269-00	• Pan Slides	2
3	• 030-0716-01	• Pan Holder Weldment	1
4	• 042-0010-03	• Pop Rivet	4
5	• 053-0349-01	• Cover Handle	1
6	• 016-0222-00	• Pan	1
7	• 042-0014-12	• Shoulder Bolt	4
8	• 042-0014-04	• Shoulder Bolt	2
9	• 050-1514-00	• Wire Guard	1
10	• 040-0010-47	• Screw	1
11	• 015-0430-00	• Switch	1
12	• 040-0004-09	• Screw	2
13	• 040-0008-09	• Screw	6
14	051-0349-00	Pivot Link	2

Always Specify Model & Serial Number

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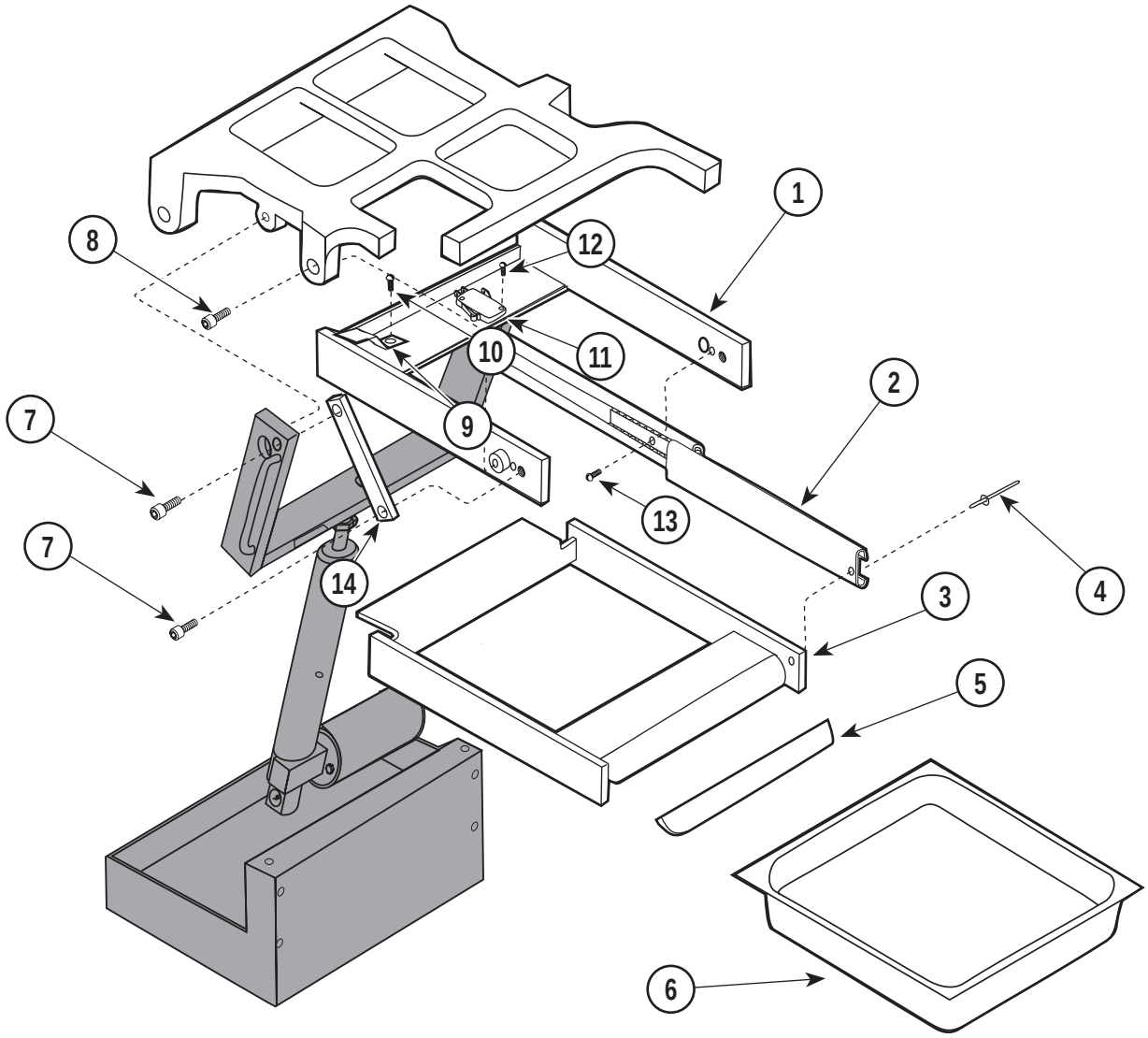
Pan Assembly



MA325800

Used On Units With Serial Number AM-1964 thru Present

Item	Part No.	Description	Qty.
	029-0450-00	Pan Assembly	
1	• 030-0368-01	• Pan Mount Weldment	1
2	• 016-0269-00	• Pan Slides	2
3	• 030-0716-01	• Pan Holder Weldment	1
4	• 042-0010-03	• Pop Rivet	4
5	• 053-0349-01	• Cover Handle	1
6	• 016-0222-00	• Pan	1
7	• 042-0014-12	• Shoulder Bolt	4
8	• 042-0014-06	• Shoulder Bolt	2
9	• 050-1514-00	• Wire Guard	1
10	• 040-0010-47	• Screw	1
11	• 015-0430-00	• Switch	1
12	• 040-0004-09	• Screw	2
13	• 040-0008-09	• Screw	6
14	051-0349-00	Pivot Link	2

Always Specify Model & Serial Number

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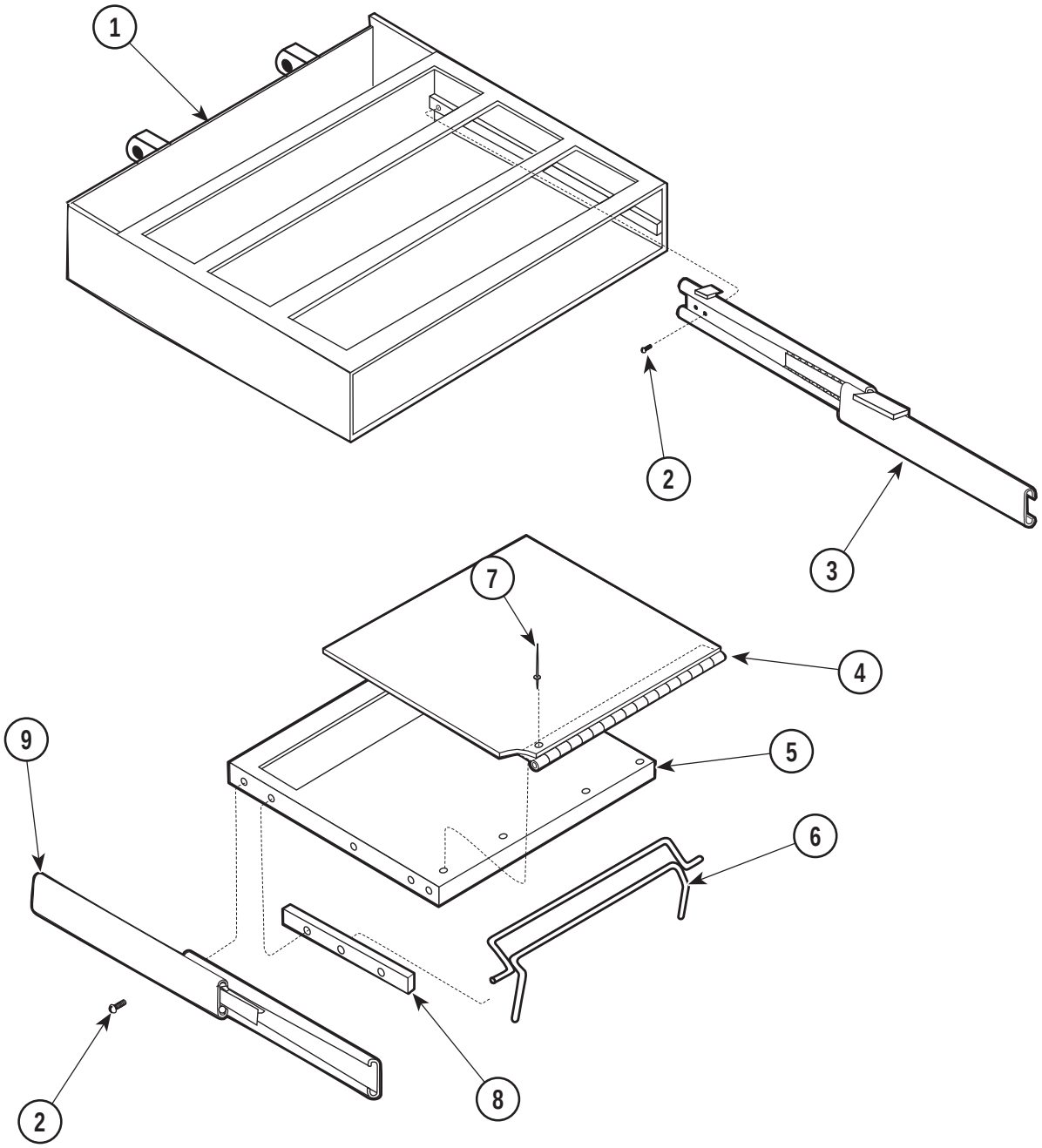
Footrest Assembly



MA325100

Item	Part No.	Description	Qty.
1		Seat Weldment (Refer to "Main Frame Section" Elsewhere)	Ref
2	040-0008-29	Screw	18
3	016-0216-00	Footrest Slide w/lock	1
4	030-0367-00	Foot Board	1
5	030-0370-00	Shelf	1
`6	030-0369-00	Lift Weldment	1
7	042-0010-02	Pop Rivot	4
8	051-0350-00	Nut Plate	2
9	016-0215-01	Footrest Slide-Less lock	1

Always Specify Model & Serial Number

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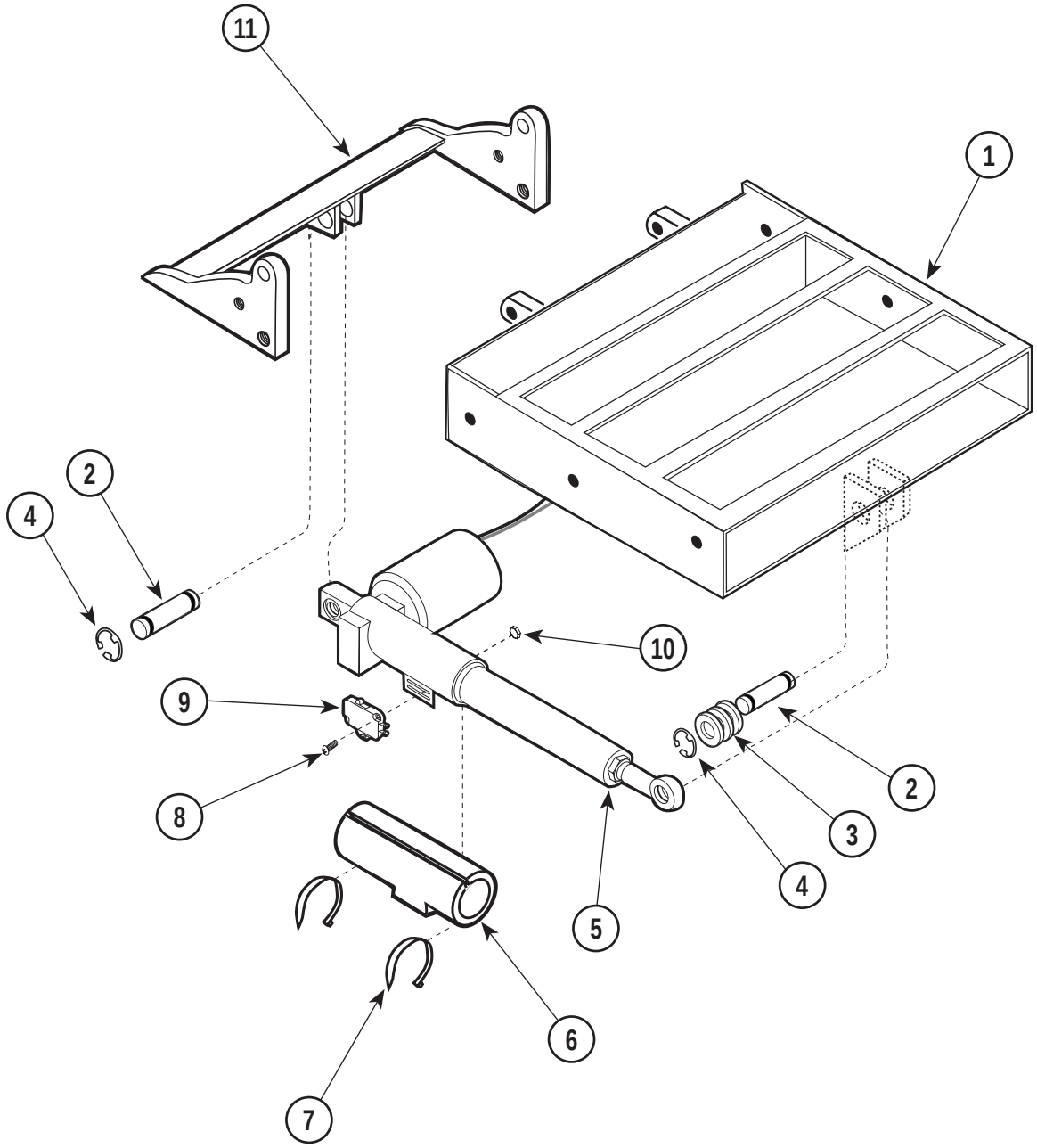
Seat Components



MA325000

Item	Part No.	Description	Qty.
1		Seat Weldment (Refer to " Main Frame Section" Elsewhere)	Ref
2	042-0048-00	Clevis Pin	3
3	045-0004-00	Washer	6
4	042-0007-02	E-ring	6
5		Seat Actuator (Refer to"Seat Actuator" Elsewhere)	Ref
6	053-0186-00	Actuator Sleeve	1
7	015-0016-00	Wire Tie	2
8	040-0004-09	Bolt	2
9	015-0430-00	Limit Switch	1
10	041-0004-01	Nut	2
11		Pivot Frame (Refer to "Linkage Assembly" Elsewhere)	Ref

Always Specify Model & Serial Number

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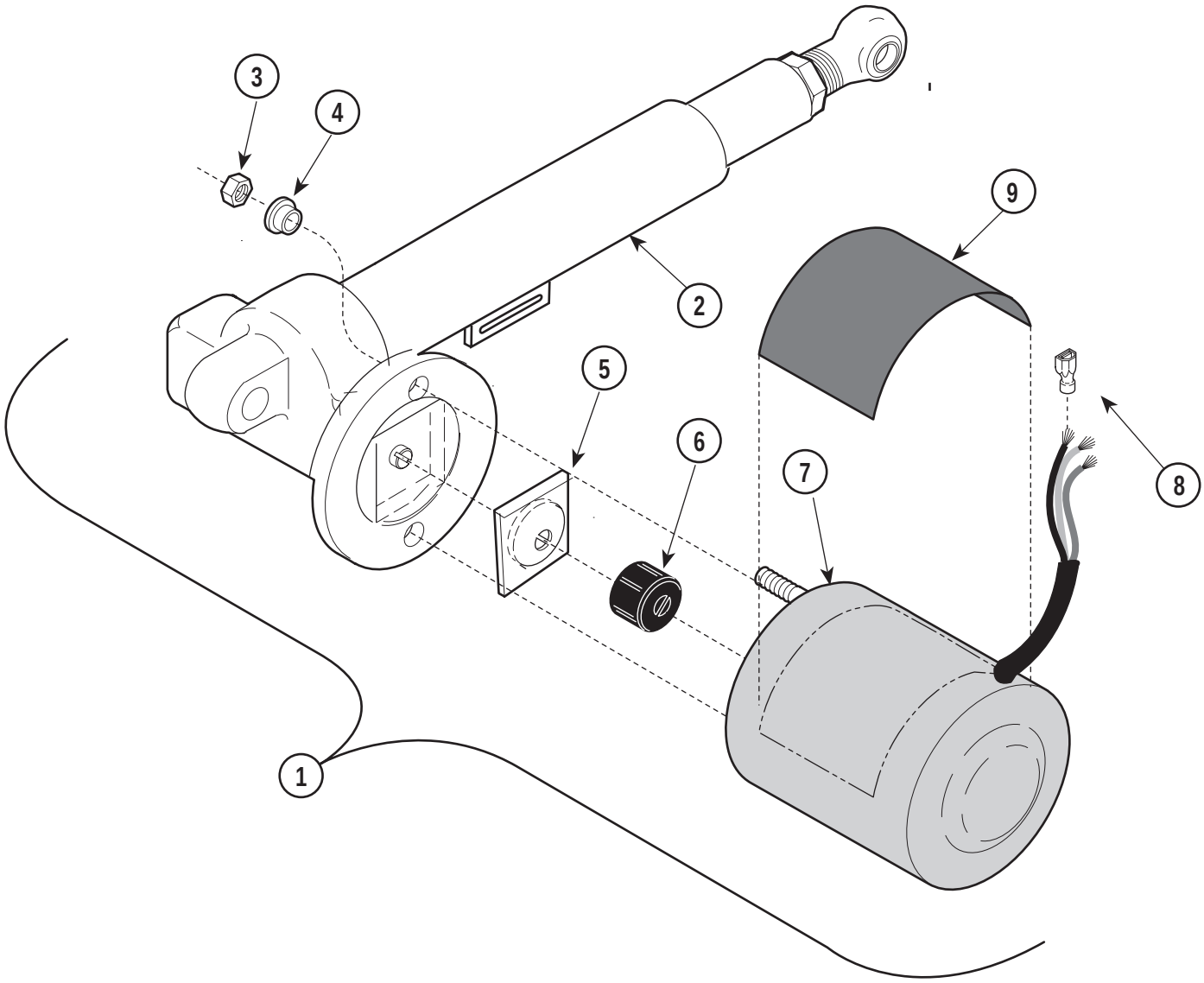
Seat Actuator

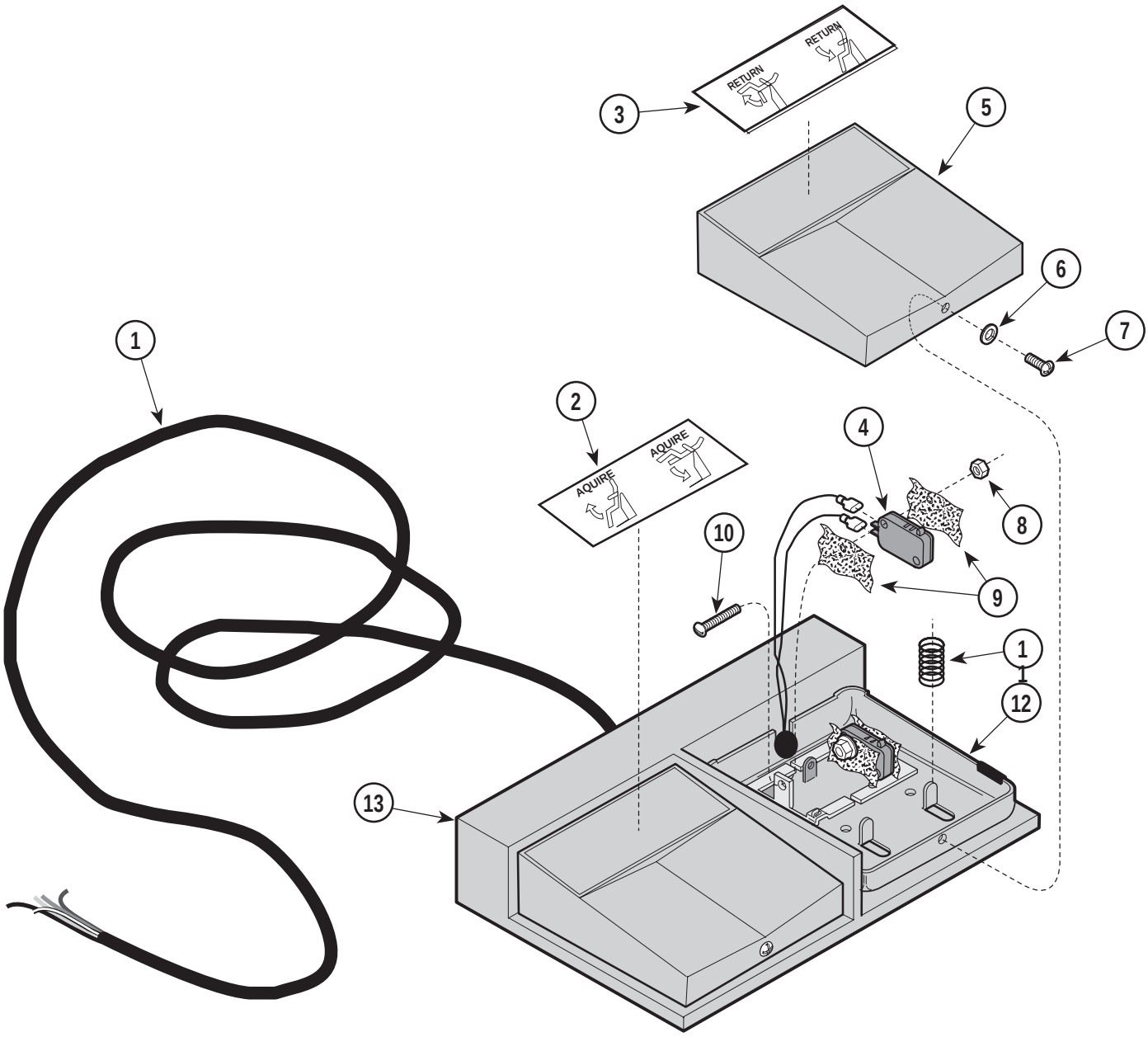


MA306900

Item	Part No.	Description	Qty.
1	016-0213-00	Seat Actuator Assembly - Domestic (Includes Items 2-8)	1
	016-0213-01	Seat Actuator Assembly - Export (Includes Items 2-8)	1
2	• 016-0213-04	• Seat Actuator (Less Motor)	1
3	•	• Nut	2
4	•053-0198-00	• Shoulder Washer	2
5	• 016-0237-00	• Actuator Brake	1
6	• 016-0509-00	• Motor Coupler	1
7	• 002-0574-00	• Actuator Motor (Domestic)	1
	• 002-0574-01	• Actuator Motor (Export)	1
8	• 015-0018-03	• Terminal	3
9	061-0135-00	Caution Label	1

Always Specify Model & Serial Number

Footswitch



MA201001

Item	Part No.	Description	Qty.
	015-0423-00	Foot Switch	1
1	•	•Cord	1
2	• 061-0165-00	• Aquire Label	1
3	• 061-0166-00	• Return Label	1
4	• 002-0101-00	• Foot Control Switch	4
5	•	• Footswitch Pedal	2
6	•	• Lockwasher	2
7	•	• Screw	2
8	•	• Nut	4
9	•	• Insulators	4
10	•	• Screw	4
11	•	• Spring	4
12	•	• Switch Mount	2
13	•	• Base	1

Always Specify Model & Serial Number

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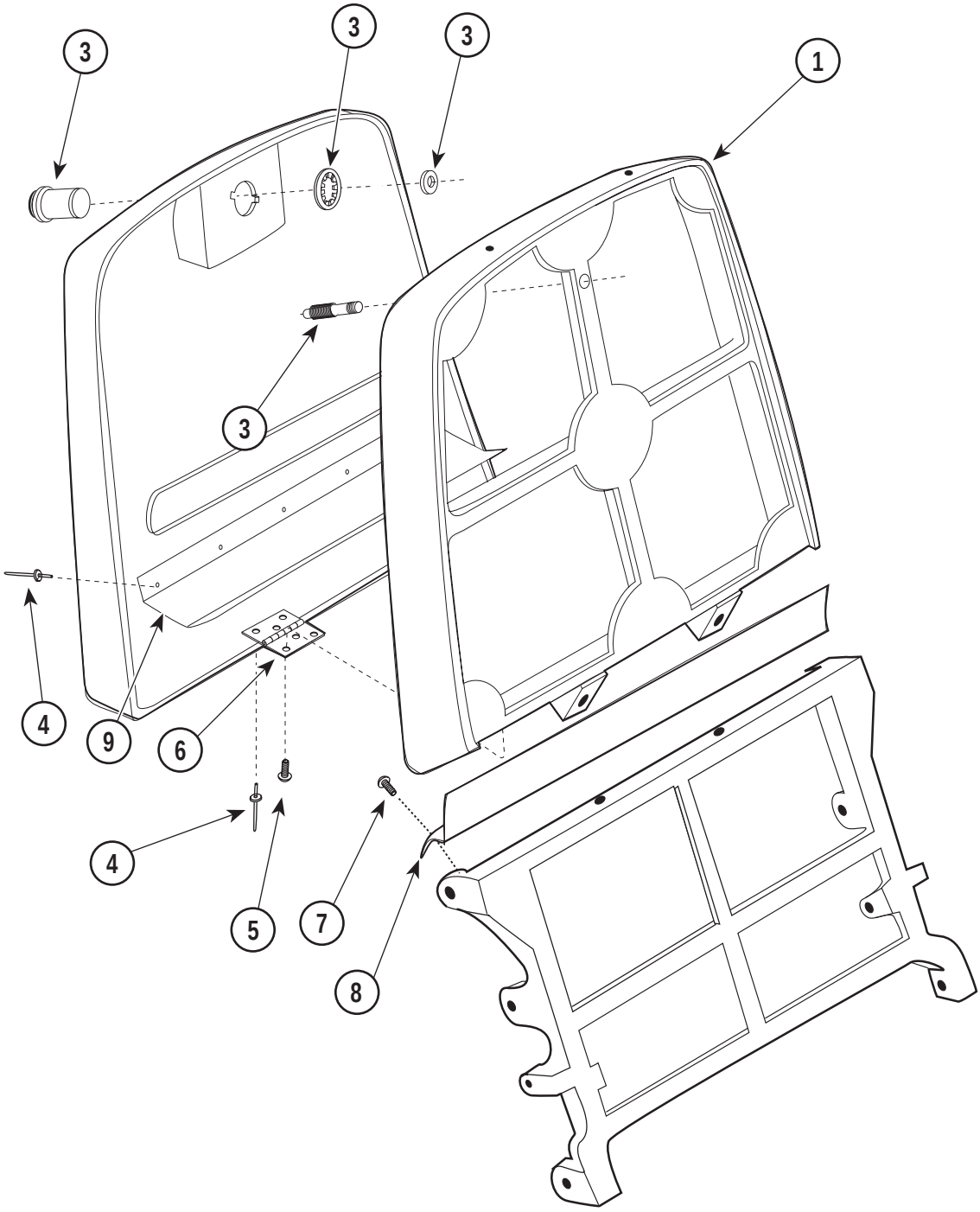
Back Panel



MA307100

Item	Part No.	Description	Qty.
1		Upper Back (Refer to "Main Frame Section" Elsewhere)	Ref
2	053-0182-00	Back Cover	1
3	029-0451-00	Push Button Latch Assembly	1
4	042-0010-02	Pop Rivot	9
5	040-0010-04	Screw	4
6	016-0218-00	Hinge	2
7	040-0010-47	Screw	2
8	050-1056-00	Cover	1
9	050-1062-00	Paper Roll Holder	1

Always Specify Model & Serial Number

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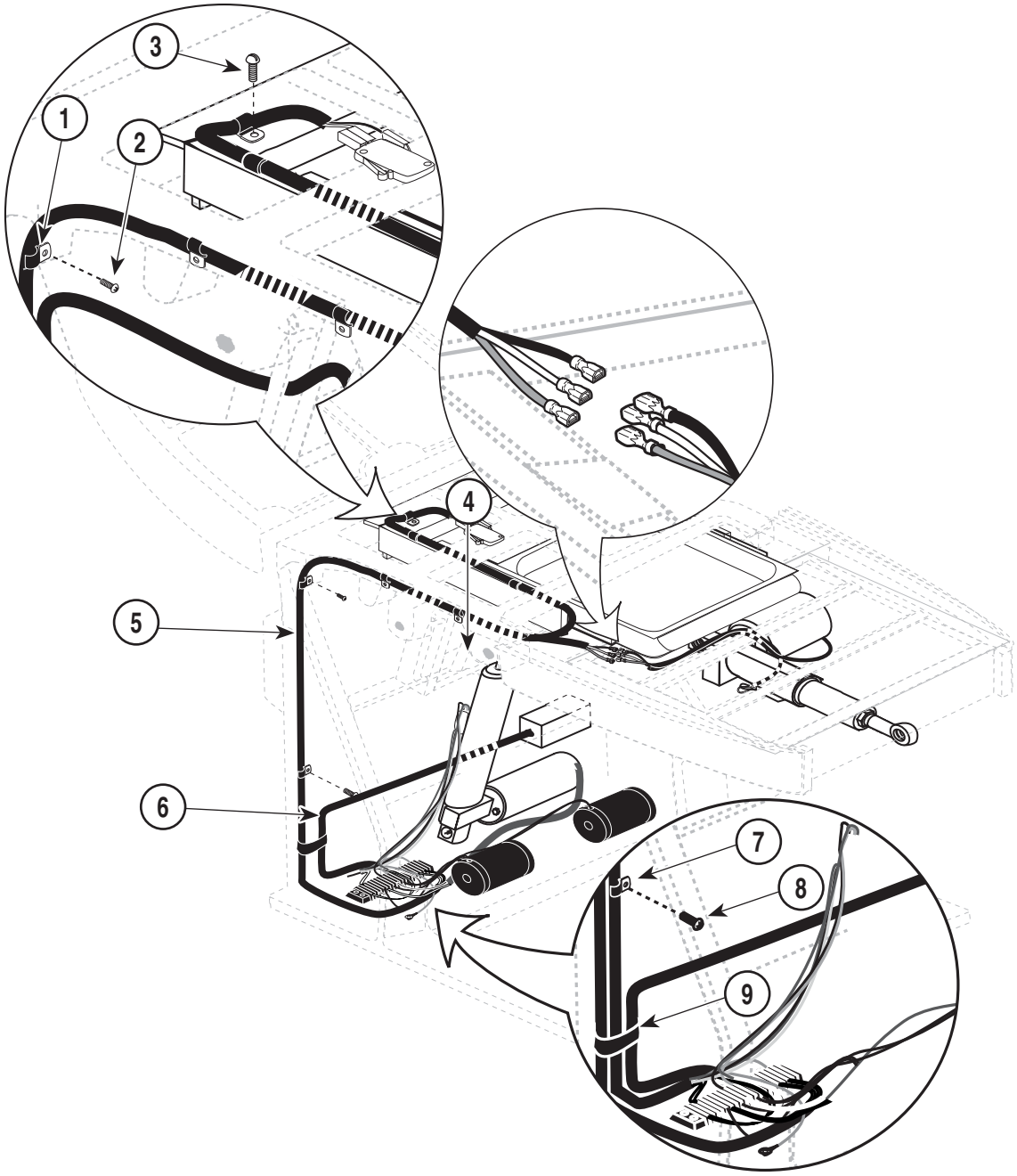
Wiring Locations

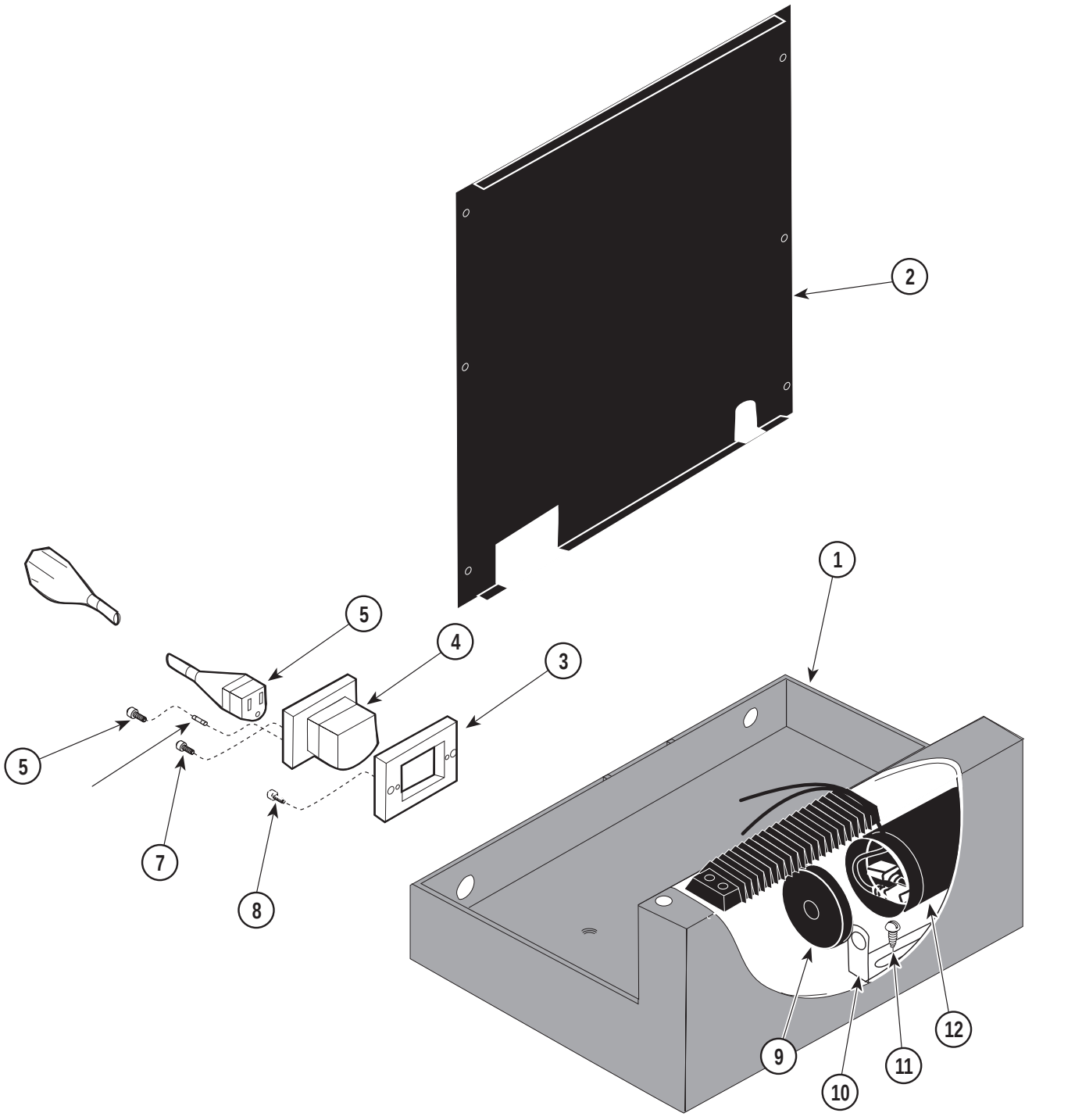


MA327700

Item	Part No.	Description	Qty.
1	015-0014-02	Cable Clamp 1/4"	7
2	040-0010-47	Screw	5
3	040-0008-29	Screw	3
4	053-0068-08	Snap Bushing	1
5	*(N.L.A.)*	Wiring Harness	1
6		Wiring Harness-Recepticle	1
7	015-0371-00	Cable Clamp 5/16"	2
8	040-0008-04	Screw	1
9	015-0013-02	Cable Tie	5

N.L.A. denotes "No Longer Available"
Always Specify Model & Serial Number

Export



MA327500

Used On Units With Serial Number V-1000 thru V-1291

Item	Part No.	Description	Qty.
1		Cross Support (Refer to "Cross Support" Elsewhere)	Ref
2	050-1069-01	Back Shroud	1
3	051-0351-02	Cord Inlet	1
4	015-0364-00	Appliance Inlet	1
5	015-0363-00	Cord	1
6	015-0348-01	Fuse	2
7	040-0004-11	Screw	2
8	040-0010-52	Screw	2
9	015-0413-00	Cap	2
10	015-0412-01	Bracket	2
11	040-0010-47	Screw	4
12	015-0438-01	Capacitor	2

Always Specify Model & Serial Number

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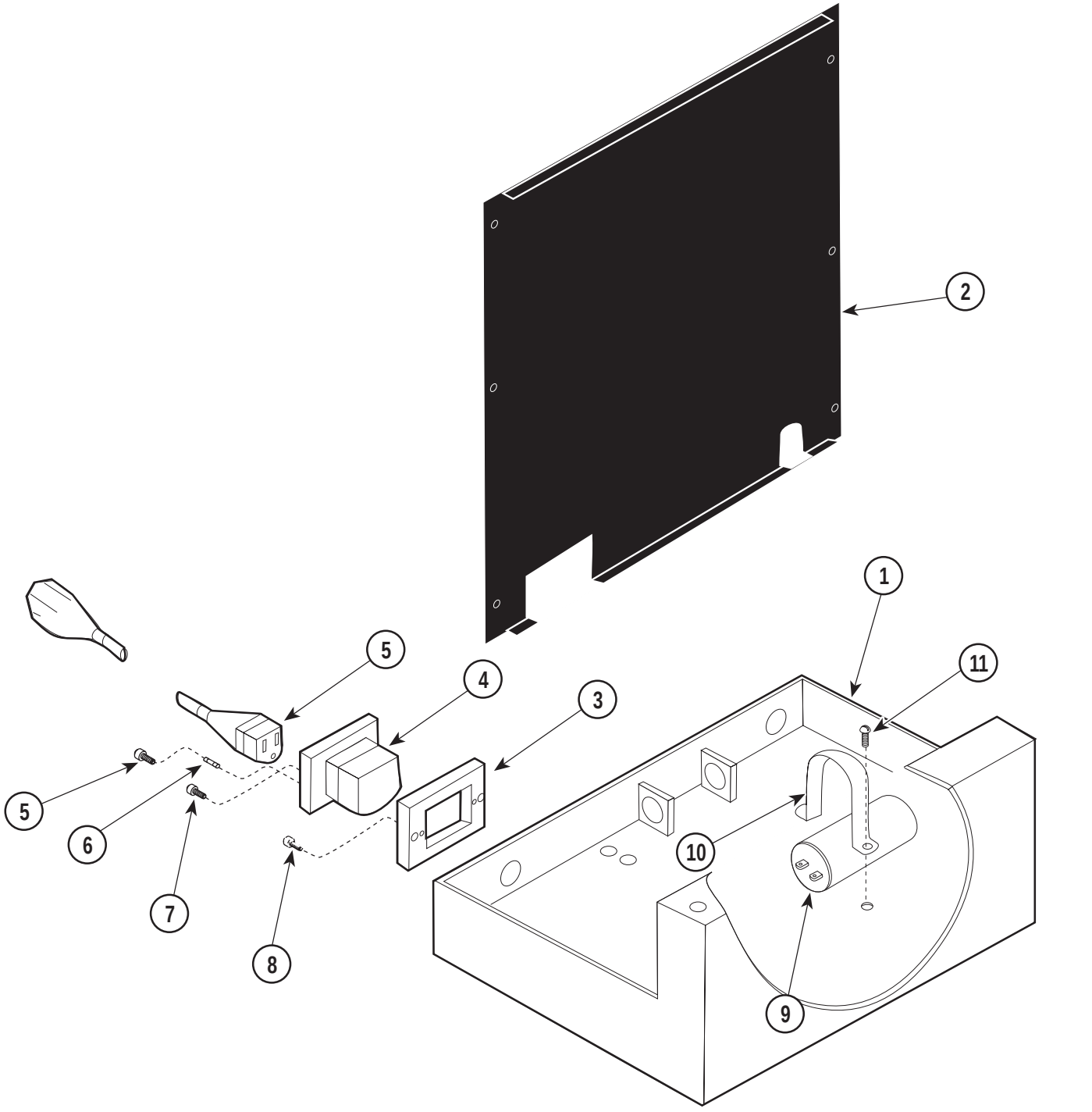
Export



MA307500

Used On Units With Serial Number V-1292 thru Present

Item	Part No.	Description	Qty.
1		Cross Support (Refer to "Cross Support" Elsewhere)	Ref
2	050-1069-01	Back Shroud	1
3	051-0351-02	Cord Inlet	1
4	015-0364-00	Appliance Inlet	1
5	015-0363-00	Cord	1
6	015-0348-01	Fuse	2
7	040-0004-11	Screw	2
8	040-0010-52	Screw	2
9	015-0438-04	Capacitor	2
10	015-0693-00	Capacitor Clamp	2
11	040-0010-47	Screw	4

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FAX ORDERING FORM

(SERVICE PARTS ONLY)

NOTES:

- ALL BLOCKED AREAS MUST BE COMPLETED.
- USE FOR NON-WARRANTY FAX ORDERS ONLY. WARRANTY ORDERS MUST BE TELEPHONED IN (1-800-MIDMARK).

ATTENTION: SERVICE DEPARTMENT FAX#: 877-249-1793

ACCT #: ____________ P.O. #: ____________ DATE: ____________

NAME: ____________

ADDRESS: ____________

CITY, ST.: ____________

CONTACT: ____________

PHONE: ____________

SHIP TO: ____________

☐ NON-EMERGENCY ORDER - TO SHIP WITHIN 72 HOURS IF PART(S) IN STOCK.

☐ EMERGENCY ORDER - TO SHIP WITHIN 24 HOURS IF PART(S) IN STOCK (IF ORDER IS RECEIVED BEFORE 1:00 P.M. E.S.T.).

SEND NOTIFICATION IF PARTS ARE NOT AVAILABLE TO SHIP WITHIN 24 HOURS VIA E-MAIL OR FAX TO: ____________

METHOD OF SHIPMENT

UPS	FED EX	OTHER
☐ NEXT DAY A.M.	☐ NEXT DAY A.M.	____________
☐ NEXT DAY P.M.	☐ NEXT DAY P.M.	
☐ 2ND DAY	☐ 2ND DAY	
☐ GROUND	☐ ECONOMY	

QTY.	PART #	DESCRIPTION (SPECIFY COLOR OF ITEM IF APPLICABLE)	COLOR CODE	PRICE/PER
			TOTAL COST: $	

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P.O. Box 286
Versailles, Ohio 45380-0286
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