Barrier-Free® Power Exam Table

Model Numbers:

625

MIDMARK®

Service and Parts Manual

FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

004-0763-00 Rev. A (2/15/13)

Style B

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(*) Indicates multiple pages due to model / serial number break(s).

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Symbols

DANGER
Indicates an imminently hazardous situation which will result in serious or fatal injury if not avoided. This symbol is used only in the most extreme conditions.

WARNING
Indicates a potentially hazardous situation which could result in serious injury if not avoided.

Caution
Indicates a potentially hazardous situation which may result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.

Equipment Alert
Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

Note
Used for special instructions or additional information.

The symbols below may be used in this manual to represent the operational status of table functions and components.

Indicates the function / component is working properly. No action required.

Indicates the function / component is working, but a problem exists.

Indicates the function is not working at all, or that the component is faulty.

Ordering Parts

The following information is required when ordering parts:

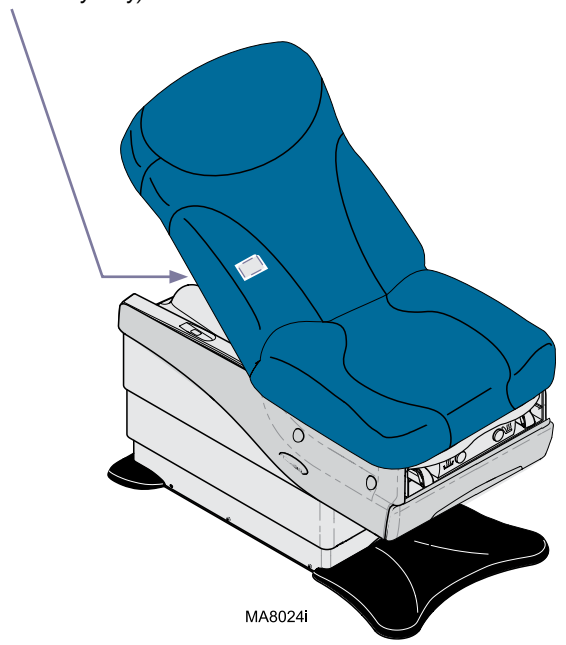
- Serial number & model number
- Part number for desired part
  (Refer to Section E: Exploded Views & Parts Lists)

Non-warranty part orders may be faxed to Midmark using the Fax Order Form in the back of this manual.

For warranty part orders, call Midmark's Technical Service Department with the required information.
Hours: 8:00 am to 5:00 p.m. EST (Monday thru Friday)
Phone: 1-800-Midmark (1-800-643-6275)

Serial Number Location

Model / Serial Number Label
Located on the Back Mounting Frame
(exact location may vary)



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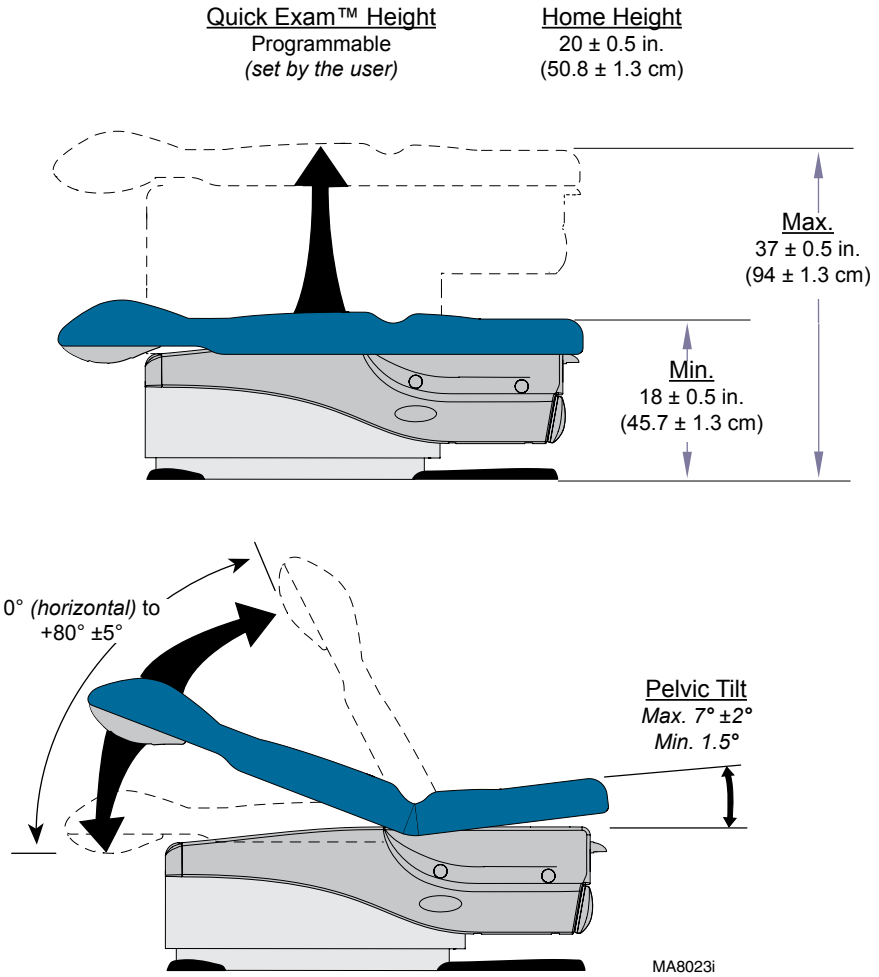
Specifications 625 (-001 /-003 /-005 /-006)

Range of Motion, Weights, Electrical Specifications

Specifications Chart	
Patient Weight *(maximum)*:	650 lbs (295 kg)
Weight of Table: **w/upholstery** **w/packaging & skid** ***(no uph.)*** **Uph. w/packaging** ***(shipped separately)***	 470 lbs (213 kg) 487 lbs (221 kg) 45 lbs (20 kg)
Power Cord Length:	8 ft. (244 cm)
Electrical Requirements:	*(See Regulatory Compliance Chart)*
Foot / Hand Control Voltage:	14 VAC, SELV (Safety Extra Low Voltage)
Duplex Receptacle(s) *(maximum load)*	115 VAC, 5A, 50/60 Hz
Fuses: *IEC inlet fuses (2)* *F1 & F2 (on main PC board):* *F3 (on main PC board):* *F4 (on main PC board)* *Models w/ drawer heaters* *distribution board fuses (2)*	 6.3A, 250V, Type-T, 5 x 20 mm 10A, 250V, Type-T, 5 x 20 mm 160mA, 250V, Type-T, 5 x 20 mm 6.3A, 250V, Type-T, 5 x 20 mm 800mA, 250V, Type-T, 5 x 20mm
Duty Cycle **(Motor Run Time):** **Receptacle(s) & Drawer Heater:**	 Intermittent Operation *[30 seconds ON / 5 minutes OFF]* Continuous Operation
Classifications:	Class 1, Type B Applied Part
Protection against ingress of fluids:	IPXO *[Foot Control only: IPX1]*



WARNING
Equipment not suitable for use in the presence of a flammable anesthetic mixture.

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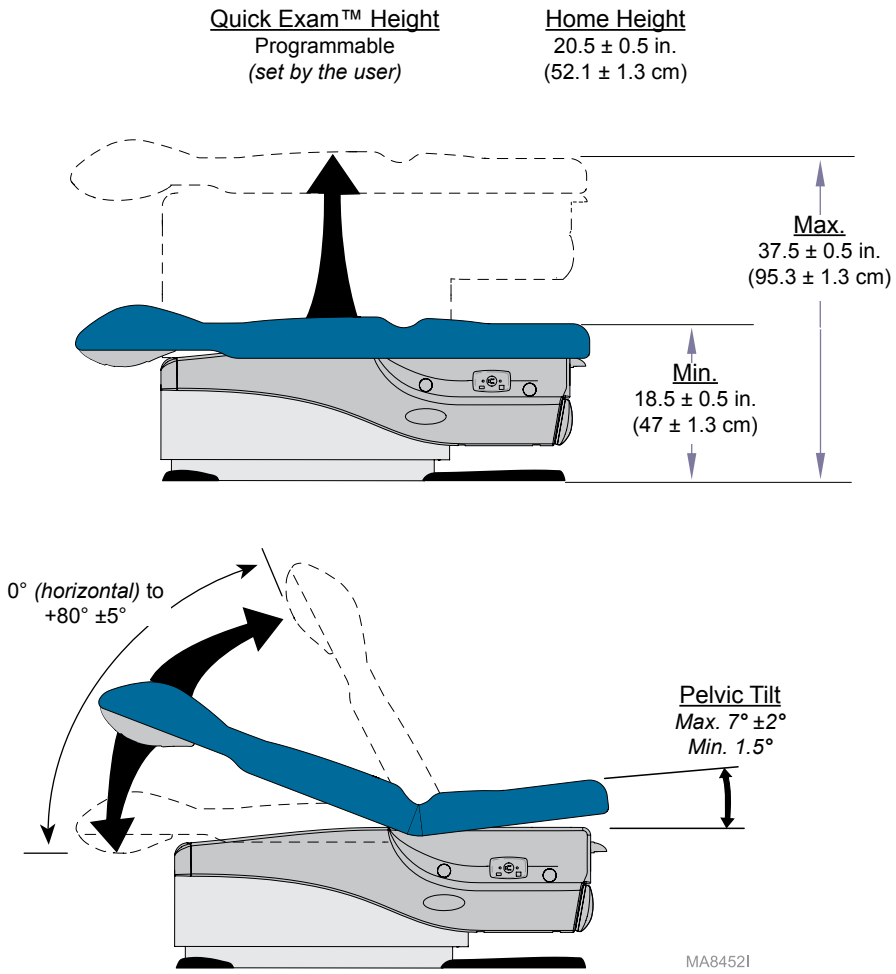
Specifications 625 (-004)

Range of Motion, Weights, Electrical Specifications

Specifications Chart	
Patient Weight *(maximum)*:	650 lbs (295 kg)
Weight of Table: **w/upholstery** **w/packaging & skid** ***(no uph.)*** **Uph. w/packaging** ***(shipped separately)***	 475 lbs (216 kg) 502 lbs (228 kg) 45 lbs (20 kg)
Power Cord Length:	8 ft. (244 cm)
Electrical Requirements:	*(See Regulatory Compliance Chart)*
Foot / Hand Control Voltage:	14 VAC, SELV (Safety Extra Low Voltage)
Simplex Receptacles *(maximum load)*	115 VAC, 5A, 50/60 Hz
Fuses: *IEC inlet fuses (2)* *F1 & F2 (on main PC board):* *F3 (on main PC board):* *F4 (on main PC board)* *Models w/ drawer heaters* *distribution board fuses (2)*	 6.3A, 250V, Type-T, 5 x 20 mm 10A, 250V, Type-T, 5 x 20 mm 160mA, 250V, Type-T, 5 x 20 mm 6.3A, 250V, Type-T, 5 x 20 mm 800mA, 250V, Type-T, 5 x 20mm
Duty Cycle **(Motor Run Time):** **Receptacles & Drawer Heater:**	 Intermittent Operation *[30 seconds ON / 5 minutes OFF]* Continuous Operation
Classifications:	Class 1, Type B Applied Part
Protection against ingress of fluids:	IPXO *[Foot Control only: IPX1]*



WARNING
Equipment not suitable for use in the presence of a flammable anesthetic mixture.

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Model Identification / Compliance Chart

Fire Code Ratings:

All upholstery complies with California Bureau of Home Furnishing Technical Bulletin 117 and California Code of Regulations, Sect. 93120-93120.12, Title 17.Optional upholstery is available that complies with California Bureau of Home Furnishing Technical Bulletin 133.

Model	Description	Complies To:					Electrical Ratings:		
		UL 60601-1	CAN / CSA 22.2, #601.1-M90	EN 60601-1	EN 60601-1-2 (EMC)	NFPA 99	VAC +/- 10%	Amps	Cycles (Hz)
625-001	Two-function table *(Base / Back)*, w/ receptacle(s), pelvic tilt, & drawer heater	•	•		•	•	115	12	50/60
625-003	Two-function table *(Base / Back)*, w/ receptacle(s), pelvic tilt, drawer heater, & wire-less controls	•	•		•	•	115	12	50/60
625-004	Two-function table *(Base / Back)*, w/ receptacles, pelvic tilt, drawer heater, wireless controls, IQscale™, and IQhub™	•	•		•	•	115	12	50/60
625-005	Two-function table *(Base / Back)*, w/ pelvic tilt			•	•		230	4	50/60
625-006	Two-function table *(Base / Back)*, w/ pelvic tilt, & drawer heater			•	•		230	4.5	50/60

Scheduled Maintenance / Cleaning Chart

Interval	Inspection / Service	Description
Weekly	Cleaning	Clean upholstery with appropriate diluted bleach solution 10:1 (water: bleach)
		Wipe painted metal & plastic surfaces with a clean soft cloth and mild cleaner. (Note: Periodic application of common furniture wax will ease cleaning and maintain the luster of the surfaces).
	Obvious Damage	Visually inspect components for damage that could result in unsafe operation.
Semi-Annually	Mechanical Operation	Check all mechanical functions using the foot control. Repeat using the hand control.
		Table shrouds should move smoothly & quietly when base is raised & lowered. *(NOTE: There are plastic glides on the shroud tabs, Missing glides may result in noisy operation.)*
	Labels / Decals	Replace any missing or illegible labels.
	Lubrication	Lubricate back hinge with light machine oil.
		Lubricate footrest slide with household furniture wax.
	Hardware	All fasteners must be present and fastened securely.
	Electrical System	Inspect power cord and all wiring for damage.
		Be sure all electrical connections are tight.
	Stirrups	Check that stirrups extend easily, and lock securely into each lateral position.
	Scale	Verify the scale is measuring accurately using a reference weight of known value.
Date of Service: Location: Service Technician:		Model Number: Serial Number: Notes:

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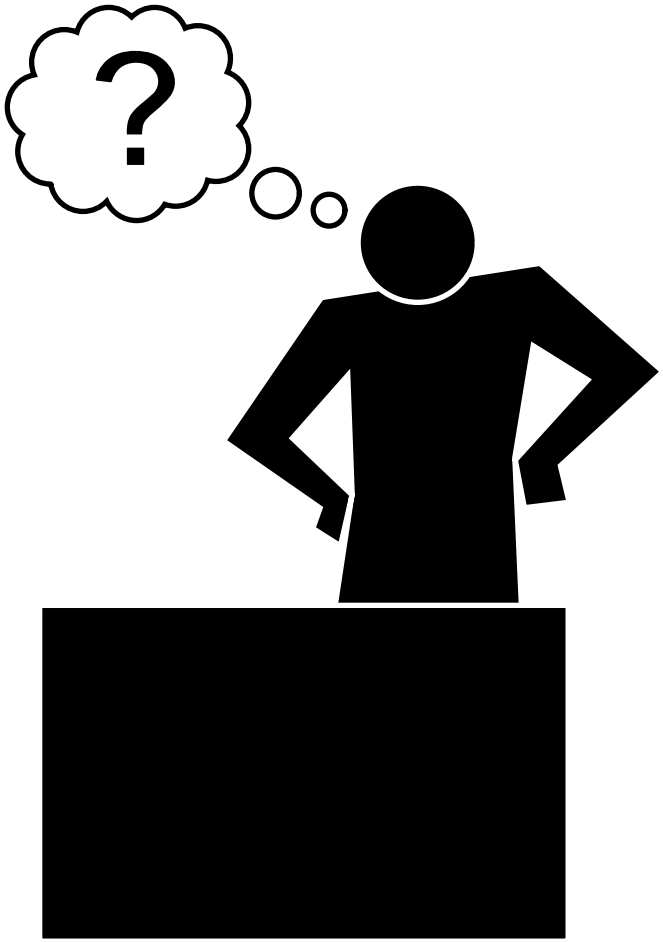
Section A

Troubleshooting



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Troubleshooting Chart

Problem	Symptom	Probable Cause	Check	Correction
No functions will operate.	All functions inoperable.	Facility supply voltage	Power cord connections & facility circuit breaker.	Secure power cord connections. Reset circuit breaker if necessary.
		Main PC board fuse(s) blown	Test F1, F2, F3, & F4 fuses	Refer to: *Section D - Wiring Diagrams*
		Loose wire connections	Wire connections between power inlet and main PC board.	Secure loose wire connections.
		Wireless controls *(if applicable)*	Refer to: *Section B - Wireless Controls*	Perform wireless controls test.
		Overtravel limit switch *(Later models only)*	Perform limit switch test *Section B - Limit Switch Test*	Replace faulty limit switch.
Base function not operating properly.	No Base Up or Base Down.	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and base up/down limit switches).	Secure loose wire connections.
		Main PC board fuse(s) blown	Test F1, F2, F3, & F4 fuses	Refer to: *Section D - Wiring Diagrams*
		Foot / Hand control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Base actuator / PC board	Perform PC board tests.	Refer to: *Section B - PC Board Test*
	Table stops and beeps	Patient weight exceeded 650 lbs	If patient weight exceeded the 650 lb. weight limit.	Inform staff that max. patient weight is 650 lbs.
	No Base Up / Base Down OK	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and base up limit switch).	Secure loose wire connections.
		Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Base Up limit switch	Perform limit switch test *Section B - Limit Switch Test*	Replace faulty limit switch.
		Base actuator / PC board	Perform PC board test.	Refer to: *Section B - PC Board Test*
	No Base Down / Base Up OK	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and base down limit switch).	Secure loose wire connections.
		Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Base Down limit switch	Perform limit switch test *Section B - Limit Switch Test*	Replace faulty limit switch.
		Base actuator / PC board	Perform PC board test.	Refer to: *Section B - PC Board Test*

Troubleshooting Chart

Problem	Symptom	Probable Cause	Check	Correction
Base function not operating properly. - continued	Base Up / Down noisy, grinding or squeaking.	Actuator threads dry	Actuator threads.	Clean and lubricate base actuator threads with Lithium grease.
		Debris on Base Slides	For any debris on base slides.	Remove any debris from base slides. *Note: Do not lubricate base slides.*
		Base Actuator	Run table up and down, if squeaking or grinding continue check base actuator.	Replace base actuator.
	Table Up / Down - Table drifts down.	Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Run table up, then unplug power cord. If drifting stops, perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand control*
		Base Actuator	Run table up, then unplug power cord. If drifting continues, check base actuator.	Replace base actuator.
Back function not operating properly.	No Back Up or Back Down.	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and back up/down limit switches.)	Secure loose wire connections.
		Main PC board fuse(s) blown	Test F1, F2, F3, & F4 fuses	*Section D - Wiring Diagrams*
		Foot / Hand control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand control*
		Back actuator / PC board	Perform PC board test.	Refer to: *Section B - PC Board Test*
	Table stops and beeps.	Patient weight exceeded 650 lbs	If patient weight exceeded the 650 lb. weight limit.	Inform staff that max. patient weight is 650 lbs.
	No Back Up / Back Down OK.	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and back up limit switch.)	Secure loose wire connections.
		Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Back Up Limit Switch	Perform limit switch test. *Section B - Limit Switch Test*	Replace faulty limit switch.
		Back actuator / PC board	Perform PC board test.	Refer to: *Section B - PC Board Test*

Troubleshooting Chart

Problem	Symptom	Probable Cause	Check	Correction
Back function not operating properly. - continued	No Back Down / Back Up OK.	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and back down limit switch).	Secure loose wire connections.
		Foot / Hand Control (refer to: *Wireless Controls* if applicable)	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Back Down limit switch	Perform limit switch test *Section B - Limit Switch Test.*	Replace faulty limit switch.
		Back actuator / PC board	Perform PC board test.	Refer to: *Section B - PC Board Test*
	Back Up / Down - Back drifts down.	Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Run back up, then unplug power cord. If drifting stops, perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Back Actuator	Run back up, then unplug power cord. If drifting continues, check back actuator.	Replace back actuator
Home not functioning properly.	No Home / Base Down OK.	Loose wire connections	Wire connections (esp. Foot/Hand control(s) and Home limit switches).	Secure loose wire connections.
		Foot / Hand Control *(refer to: Wireless Controls if applicable)*	Perform Foot / Hand control test.	Refer to: *Section B - Foot / Hand Controls*
		Home Limit Switch(es)	Perform Limit Switch test. Refer to: *Section B - Limit Switch Test*	Replace faulty Limit Switch.
Drawer Heater malfunctioning.	Drawer Heater does not warm up Heater Switch does not illuminate.	Loose wire connections	Check wire connections between heater switch and power cord.	Secure loose wire connections.
		Blown fuse(s) on distribution board	Test fuses on distribution board.	Refer to: *Section D - Wiring Diagrams*
		Drawer heater switch	Test drawer heater switch. Refer to: *Section B - Drawer Heater Switch Test*	Replace drawer heater switch.
	Drawer Heater does not warm up Heater Switch-OK *(illuminates).*	Loose wire connections	Check wire connections between heater switch and heater plate.	Secure loose wire connections
		Drawer Heater Plate	Test drawer heater plate. Refer to: *Section B - Drawer Heater Plate Test*	Replace drawer heater plate.
	Drawer Heater-OK Heater Switch does not illuminate.	Drawer Heater Switch	Refer to: *Section B - Drawer Heater Switch replacement.*	Replace drawer heater switch.

Problem	Symptom	Probable Cause	Check	Correction
Table Receptacle(s) malfunctioning.	No power at table receptacle(s) All other functions work.	Circuit breaker	If circuit breaker is tripped.	Lift seat section to access circuit breaker(s), press to reset.
		Loose wire connection	Check wire connections between table receptacle and power cord.	Secure loose wire connections.
		Blown isolation transformer fuse(s) at IEC inlet	Test fuses at IEC inlet.	Refer to: *Section D - Wiring Diagrams*
		Isolation Transformer	Output voltage at isolation transformer.	Replace faulty isolation transformer.
		Table Receptacle	Voltage at receptacle.	Replace faulty receptacle.
Wireless Controls malfunctioning.	When any control button is pressed, that controller sounds a single “beep”. (All functions operate)	Low battery	Refer to: *Section B - Wireless Controls*	Replace batteries. *(size: AA)*
		Faulty PC board in controller	Refer to: *Section B - Wireless Controls*	Replace controller PC board.
	When any control button is pressed, nothing happens. (No “beeps”, no movement, ect.)	Controller not associated to table.	Refer to: *Section B - Wireless Controls*	Perform Association Procedure.
		Wireless controls component malfunction.	Refer to: *Section B - Wireless Controls*	Replace malfunctioning component.

Troubleshooting Chart (625-004)

Problem	Symptom	Probable Cause	Check	Correction
Digital Scale is malfunctioning.	Nothing is displayed on the digital display. Table functions OK.	Ten second scale time out feature activated.	Press Zero button to reactivate display.	Inform operator of the ten second time out feature.
		Faulty PC board in controller	Replace PC Board with known working PC Board.	Replace controller PC board.
	The measured weight of patient is inaccurate or the display scrolls.	Scale is not zeroed.	Check if operator failed to zero scale before seating patient.	Refer to: *Scale Operation in Users Guide.*
		The patient's feet are making contact with the floor after weight button has been pressed..	Check that the patient is properly seated.	Refer to: *Scale Operation in Users Guide.*
			Check if stop button was depressed while table was automatically raising.	Refer to: *Scale Operation in Users Guide.*
		Obstruction under or around table base.	Check for any obstruction under or around table.	Remove obstruction.
		Table not level.	Using bubble level supplied with table, check each corner of table base for level.	Refer to: *Leveling Instructions in Installation Guide.*
	Display on hand control scrolls without displaying weight.	Hand control not associated with table. *(No table functions)*.	Perform association procedure.	Refer to: *Wireless Controls.*
		Wire connection to external antenna loose or broken.	Check wire connections to External Antenna.	Refer to: *Wireless Controls.*
	Digital Display works, but measured weight stays at zero.	Scale calibration lost.	Verify scale is measuring accurately using a reference weight of known value.	Refer to: *Scale Calibration Procedure.*
		Loose wire connection.	Check wire connections from each load cell and scale control board.	Secure loose wire connection.
			Check wire connections between Scale PC Board and LIN to Scale PC Board.	Secure loose wire connection.
			Check wire connections between 625 to USB board and LIN to Scale board.	Secure loose wire connection.
		Defective Scale PC Board.	Replace Scale PC Board with known working Scale PC Board.	Refer to: *Scale / USB PC Boards Replacement Instructions.*
		Defective LIN to Scale PC Board.	Replace LIN to Scale PC Board with known working LIN to Scale PC Board.	Refer to: *Scale / USB PC Boards Replacement Instructions.*

Power to the Chair (120 V models)

No functions will operate A-2

This illustration shows only the components that affect ALL TABLE FUNCTIONS.
A detailed description of current flow also appears below.

Facility Supply Voltage
With the chair's power cord properly connected, facility supply voltage (115 VAC) is supplied thru the cord to the main PC board.

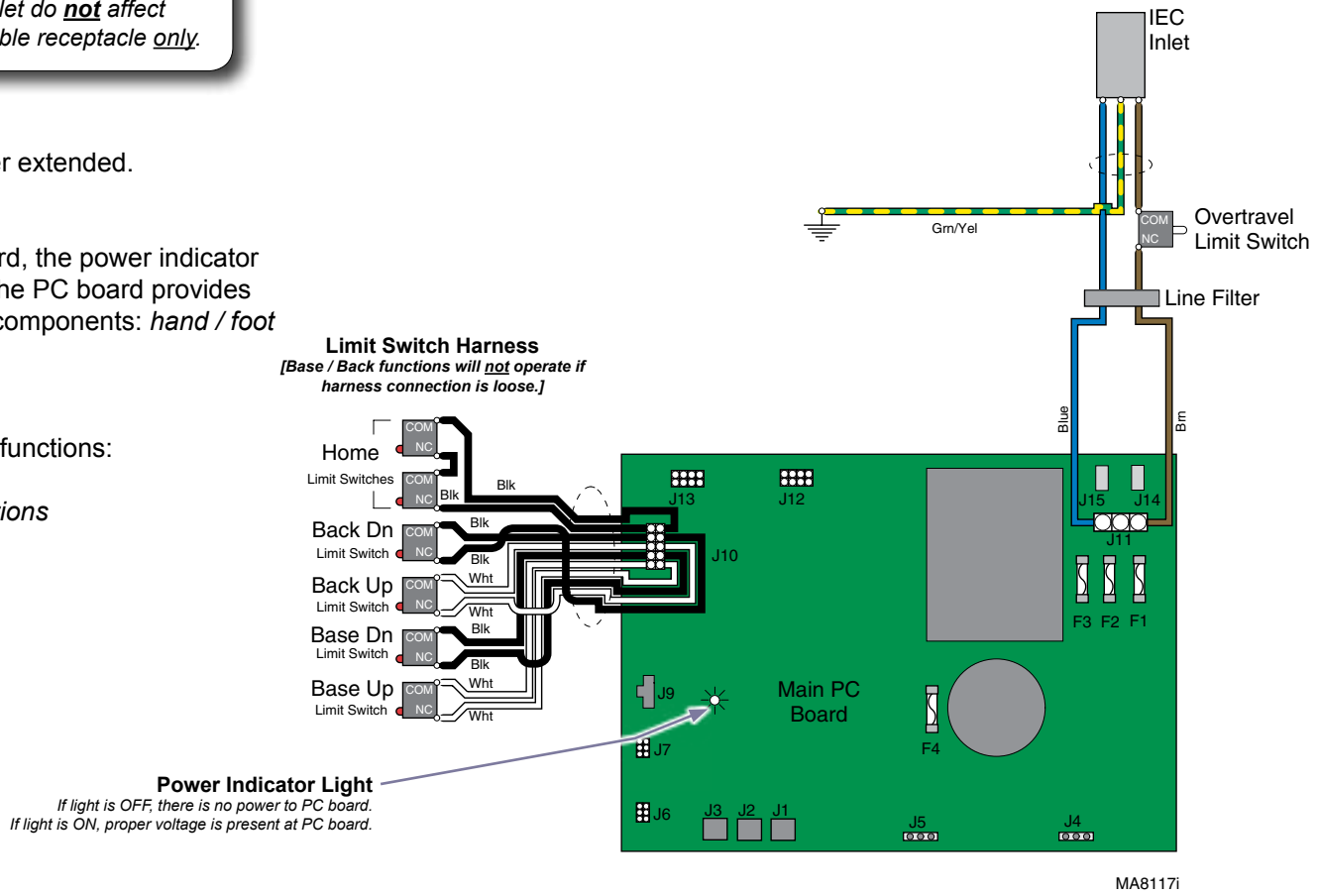
> ***Note***
> *The two external fuses at the power cord (IEC) inlet do **not** affect Base or Back functions. These fuses affect the table receptacle only.*

Overtravel Limit Switch *(Later models only)*
Disrupts power to main PC board if table is over extended.

Main PC Board
When proper voltage is supplied to the PC board, the power indicator light *(on PC board)* is illuminated. Circuitry on the PC board provides the required voltage to power all of the table's components: *hand / foot controls, actuators, limit switches.*

Fuses
The fuses on the PC board affect the following functions:

F1 / F2 / F3 / F4: *Base and Back functions*



MA8117i

Models:	625 (-001 & -003)	
Serial Numbers:	all	

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Always verify model & serial number

Power to the Chair (230 V models)

No functions will operate A-2

This illustration shows only the components that affect ALL TABLE FUNCTIONS.
A detailed description of current flow also appears below.

Facility Supply Voltage
With the chair's power cord properly connected, facility supply voltage *(230 VAC)* is supplied thru the two power cord inlet fuses to the export transformer.

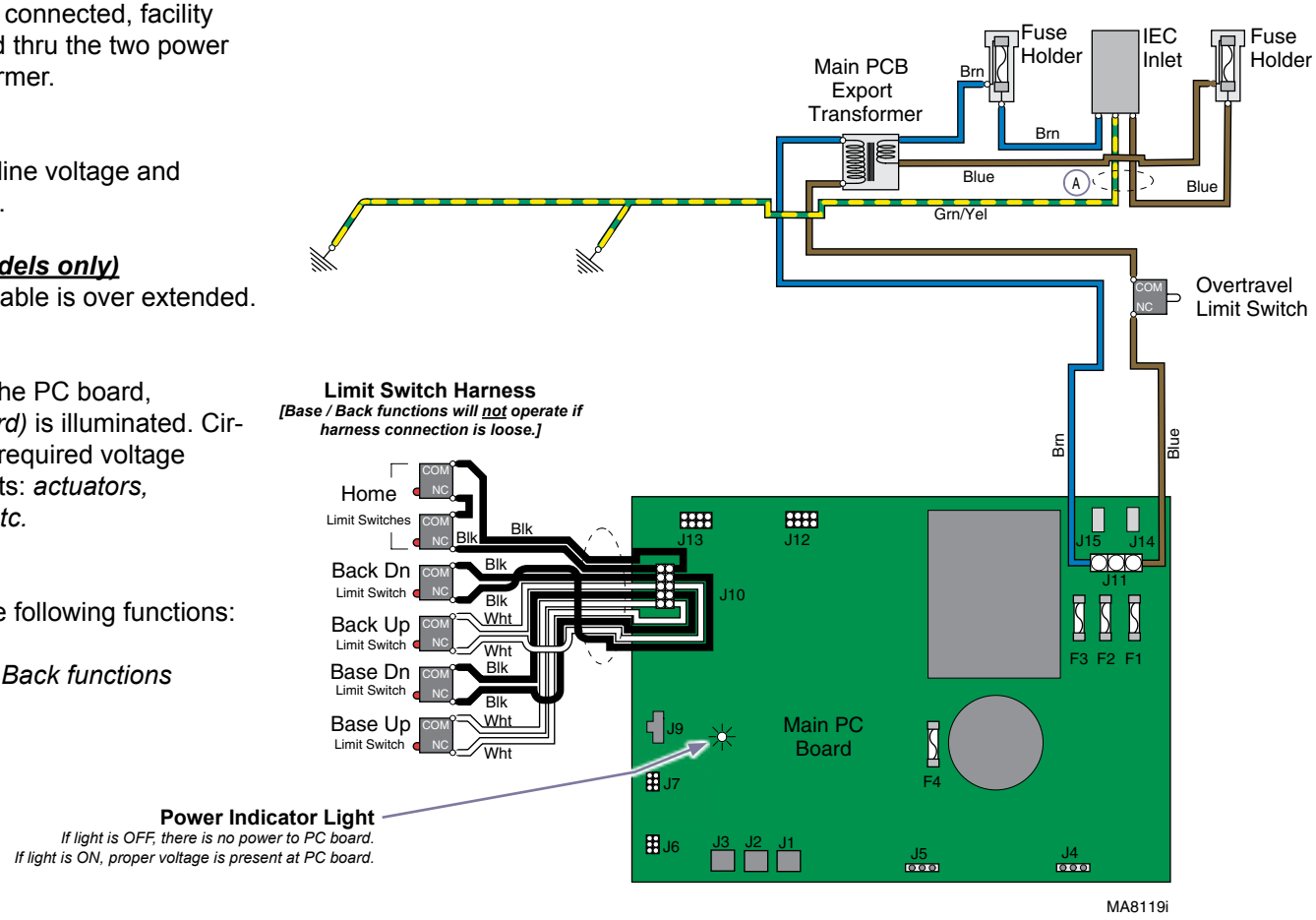
Export Transformer
The export transformer reduces the line voltage and supplies 120V to the main PC board.

Overtravel Limit Switch *(Later models only)*
Disrupts power to main PC board if table is over extended.

Main PC Board
When proper voltage is supplied to the PC board, the power indicator light *(on PC board)* is illuminated. Circuitry on the PC board provides the required voltage to power all of the table's components: *actuators, hand / foot controls, limit switches, etc.*

Fuses
The fuses on the PC board affect the following functions:

F1 / F2 / F3 / F4: *Base and Back functions*



MA8119i

Models:	625 (-005 & -006)	
Serial Numbers:	all	

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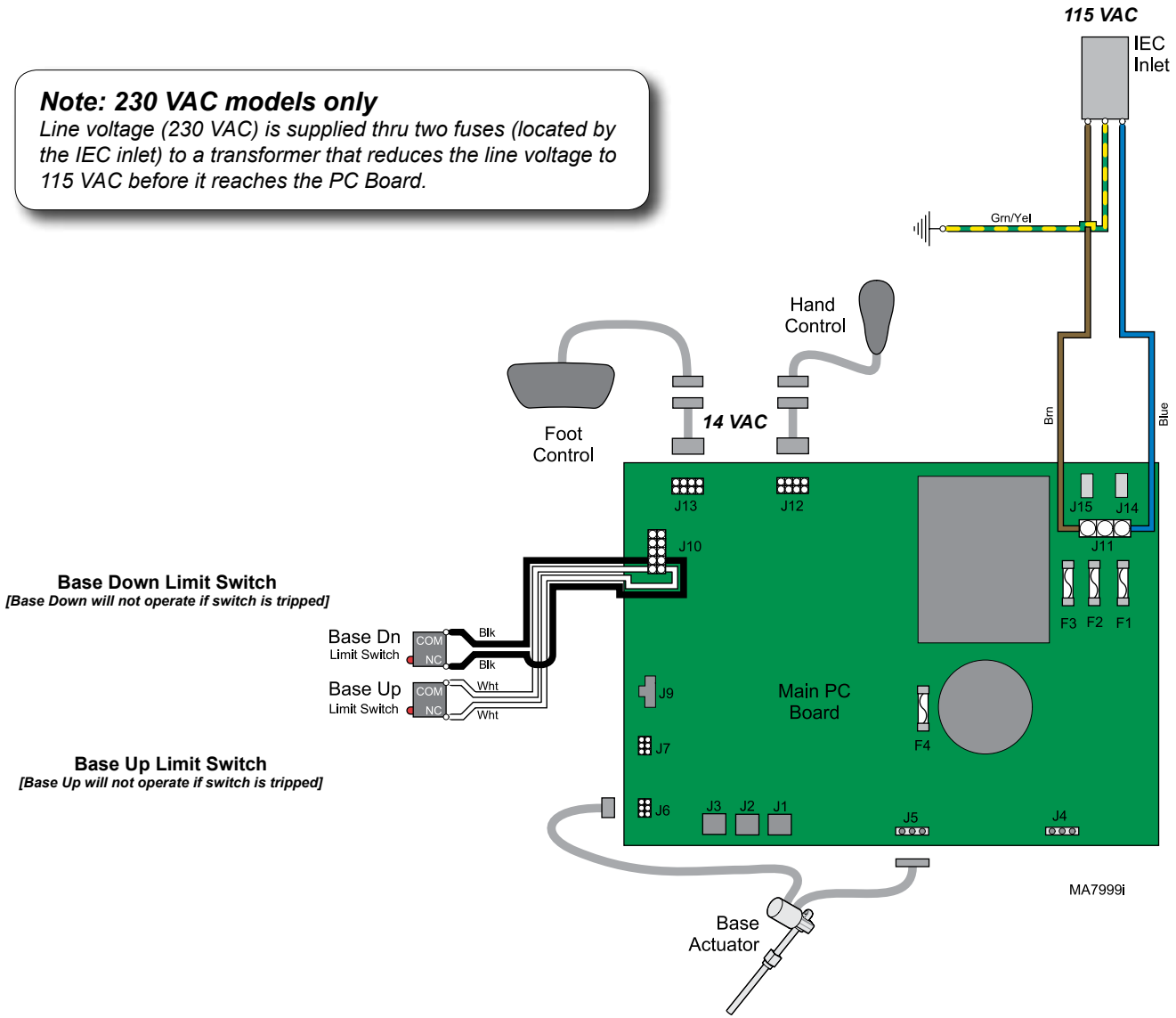
Always verify model & serial number

Base UP / DOWN Function

This illustration shows only the components that affect the Base UP / DOWN function. .
Refer to the following page for a detailed description of current flow during this function.

Note: 230 VAC models only
Line voltage (230 VAC) is supplied thru two fuses (located by the IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC Board.



Models:	625	
Serial Numbers:	all	

Base UP / DOWN Function

Note
On 230 VAC models, line voltage (230VAC) is supplied thru two fuses (located by IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC board.

Power to Foot / Hand Control
115 VAC is supplied thru the two primary fuses *(F1 & F2*) to the transformer on the PC board. *[F3 fuse protects the transformer].*

The transformer reduces the line voltage and supplies 14 VAC to the foot / hand control.

Base Up Operation

Note
If the Base Up limit switch is tripped (open), the Base Up function will not operate.

When the Base Up function is activated, current *(14 VAC)* flows thru the UP function foot switch *(N.O.)*, then back to the PC board. Circuitry on the PC Board energizes the base motor. *[F4 fuse protects the base motor].*

When the base function is energized, current flows to the actuator motor. When current flows to the actuator, the actuator motor runs and raises the table.

Actuator motor runs until:
1. Foot / Hand control button is released.
2. Base Up limit switch is tripped.
3. Fuse(s) opens (blows).
   [Primary, Base Motor, Transformer fuse]
4. Over current condition is detected.

Base Down Operation

Note
If the Base Down limit switch is tripped (open), the Base Down function will not operate.

When the Base Down function is activated, current *(14 VAC)* flows thru the DOWN function foot switch *(N.O.)*, then back to the PC board. Circuitry on the PC Board energizes the base motor. *[F4 fuse protects the base motor].*

When the base function is energized, current flows to the actuator motor. When current flows to the actuator, the actuator motor runs and lowers the table.

Actuator motor runs until:
1. Foot / hand control button is released.
2. Base Down limit switch is tripped.
3. Fuse(s) opens (blows).
   [Primary, Base Motor, Transformer fuse]
4. Over current condition is detected.

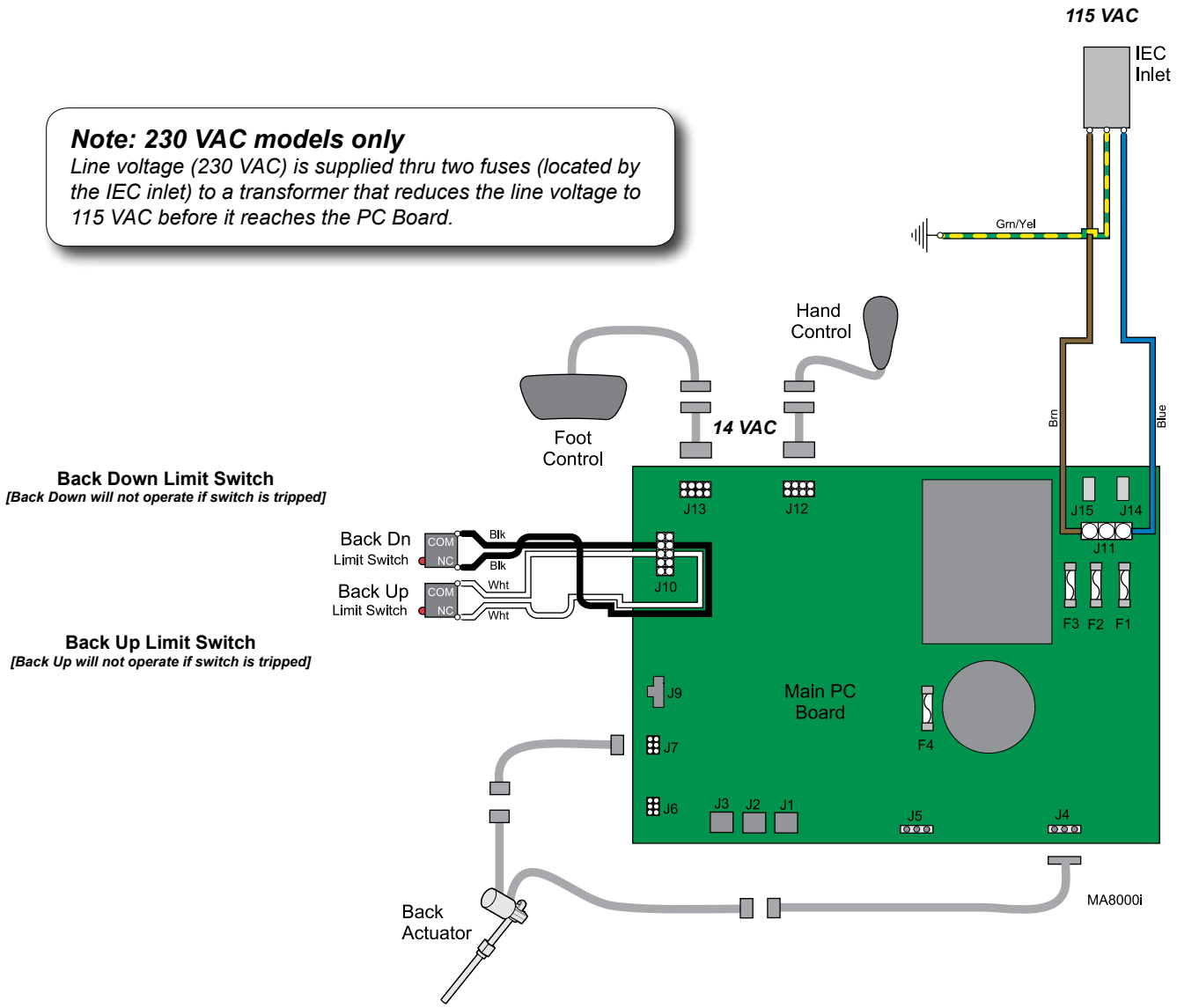
Equipment Alert
If an over current condition is detected the PC board will "beep" and all power functions will be disabled. Release the function button, remove load, then retry function.*
**(weight limit exceeded, mechanical binding, etc),*

Models:	***625***	
Serial Numbers:	*all*	

Back UP / DOWN Function

This illustration shows only the components that affect the Back UP / DOWN function. .
Refer to the following page for a detailed description of current flow during this function.

Note: 230 VAC models only
Line voltage (230 VAC) is supplied thru two fuses (located by the IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC Board.



Models:	625	
Serial Numbers:	all	

Back UP / DOWN Function

Note
On 230 VAC models, line voltage (230VAC) is supplied thru two fuses (located by IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC board.

Power to Foot / Hand Control
115 VAC is supplied thru the two primary fuses *(F1 & F2*) to the transformer on the PC board. *[F3 fuse protects the transformer].*

The transformer reduces the line voltage and supplies 14 VAC to the foot / hand control.

Back Up Operation

Note
If the Back Up limit switch is tripped (open), the Back Up function will not operate.

When the Back Up function is activated, current *(14 VAC)* flows thru the UP function foot switch *(N.O.)*, then back to the PC board. Circuitry on the PC Board energizes the back motor. *[F4 fuse protects the back motor].*

When the back function is energized, current flows to the actuator motor. When current flows to the actuator, the actuator motor runs and raises the back section.

Actuator motor runs until:
1. Foot / Hand control button is released.
2. Back Up limit switch is tripped.
3. Fuse(s) opens (blows).
   [Primary, Back Motor, Transformer fuse]
4. Over current condition is detected.

Back Down Operation

Note
If the Back Down limit switch is tripped (open), the Back Down function will not operate.

When the Back Down function is activated, current *(14 VAC)* flows thru the DOWN function foot switch *(N.O.)*, then back to the PC board. Circuitry on the PC Board energizes the back motor. *[F4 fuse protects the back motor].*

When the back function is energized, current flows to the actuator motor. When current flows to the actuator, the actuator motor runs and lowers the back section.

Actuator motor runs until:
1. Foot / Hand control button is released.
2. Back Down limit switch is tripped.
3. Fuse(s) opens (blows).
   [Primary, Back Motor, Transformer fuse]
4. Over current condition is detected.

Equipment Alert
If an over current condition is detected the PC board will "beep" and <u>all</u> power functions will be disabled. Release the function button, remove load, then retry function.*
**(weight limit exceeded, mechanical binding, etc),*

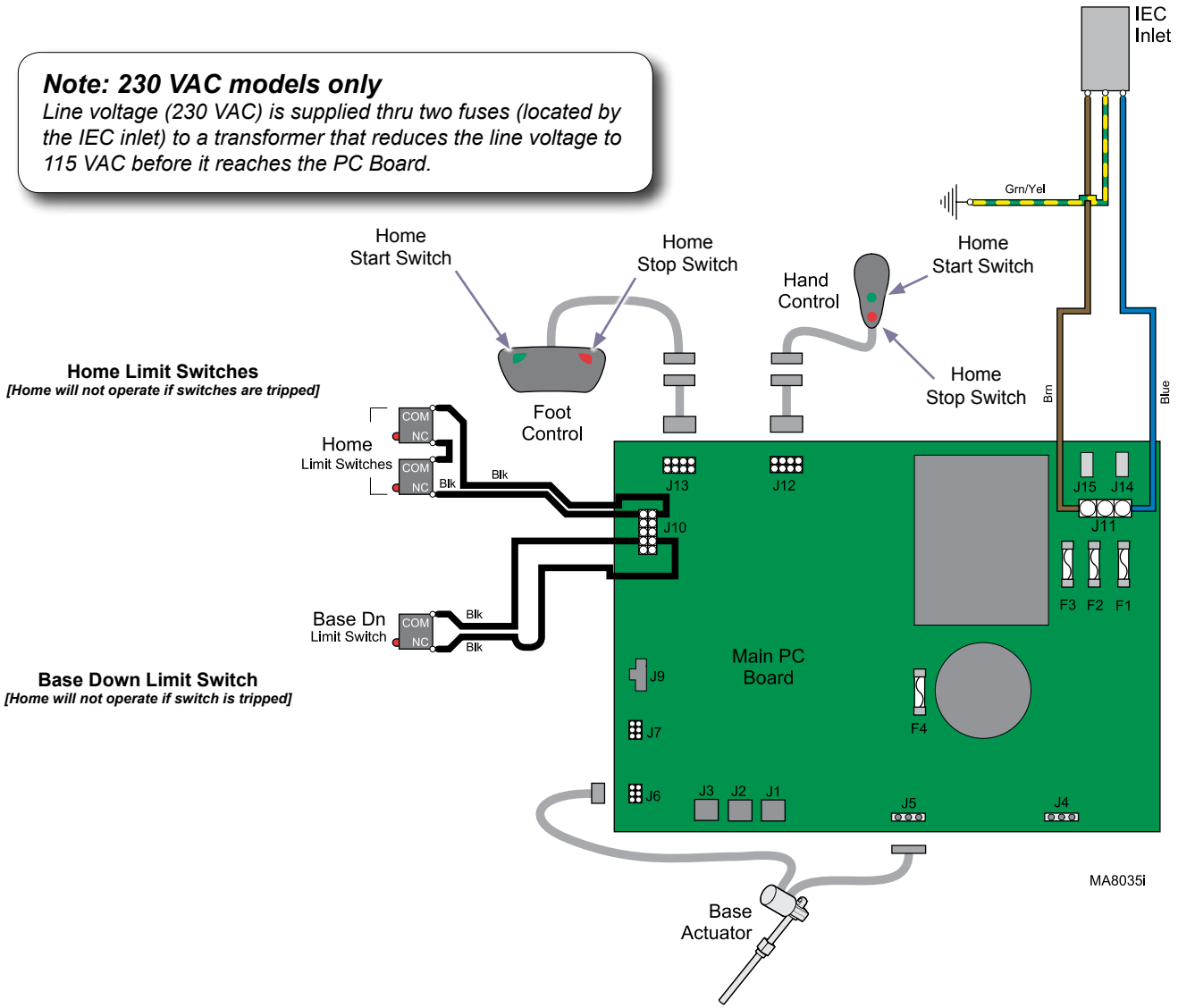
Models:	***625***	
Serial Numbers:	*all*	

Home Function

No Home. Base Down - OK.....A-4

This illustration shows only the components that affect the Home function. .
Refer to the following page for a detailed description of current flow during this function.

Note: 230 VAC models only
Line voltage (230 VAC) is supplied thru two fuses (located by the IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC Board.



Models:	625	
Serial Numbers:	all	

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Always verify model & serial number

Home Function

Note
On 230 VAC models, line voltage (230VAC) is supplied thru two fuses (located by IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC board.

Power to Foot / Hand Control
115 VAC is supplied thru the two primary fuses *(F1 & F2*) to the transformer on the PC board. *[F3 fuse protects the transformer].*

The transformer reduces the line voltage and supplies 14 VAC to the foot / hand control.

Home Operation

Note
If either of the Home limit switches or the Base Down limit switch are tripped (open), the Home function will not operate.

When the Home function is activated, current *(14VAC)* flows thru the Home foot switch, *(N.O.)*, then back to the PC Board. Circuitry on the PC Board energizes the base motor. *[F4 fuse protects the base motor].*

When the Home function is energized, current flows to the base motor. When current flows to the actuator, the actuator motor runs and lowers the table.

When voltage flows to the actuator, the actuator motor runs lowering the table.

Actuator motor runs until:
1. Stop button is depressed.
2. Home limit switch(es) is tripped.
3. *Base Down limit switch is tripped.*
4 *Fuse(s) opens (blows).*
   [Primary, Base Motor, Transformer fuse]
5. Over current condition is detected.

Equipment Alert
If an over current condition is detected the PC board will "beep" and <u>all</u> power functions will be disabled. Release the function button, remove load, then retry function.*
**(weight limit exceeded, mechanical binding, etc),*

Models:	***625***	
Serial Numbers:	*all*	

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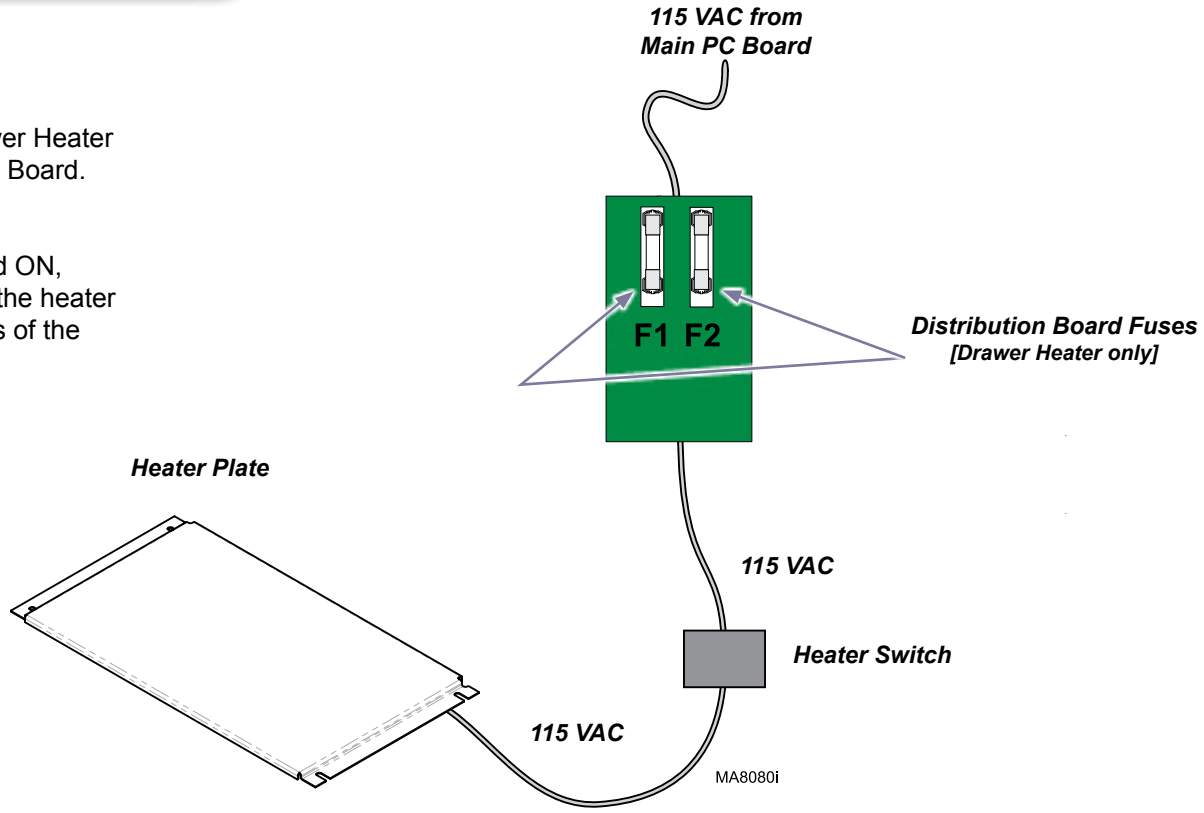
Drawer Heater System (optional)

This illustration shows only the components that affect the Drawer Heater System.
A detailed description of current flow during this function also appears below.

Note: 230 VAC models only
Line voltage (230 VAC) is supplied thru two fuses (located by the IEC inlet) to a transformer that reduces the line voltage to 115 VAC before it reaches the PC Board.

Drawer Heater Operation
115 VAC is supplied directly to the Drawer Heater switch thru two fuses on the Distribution Board. *[Voltage bypasses the Main PC Board].*

When the drawer heater switch is turned ON, current flows to the heater plate. When the heater plate is energized, it warms the contents of the drawer.



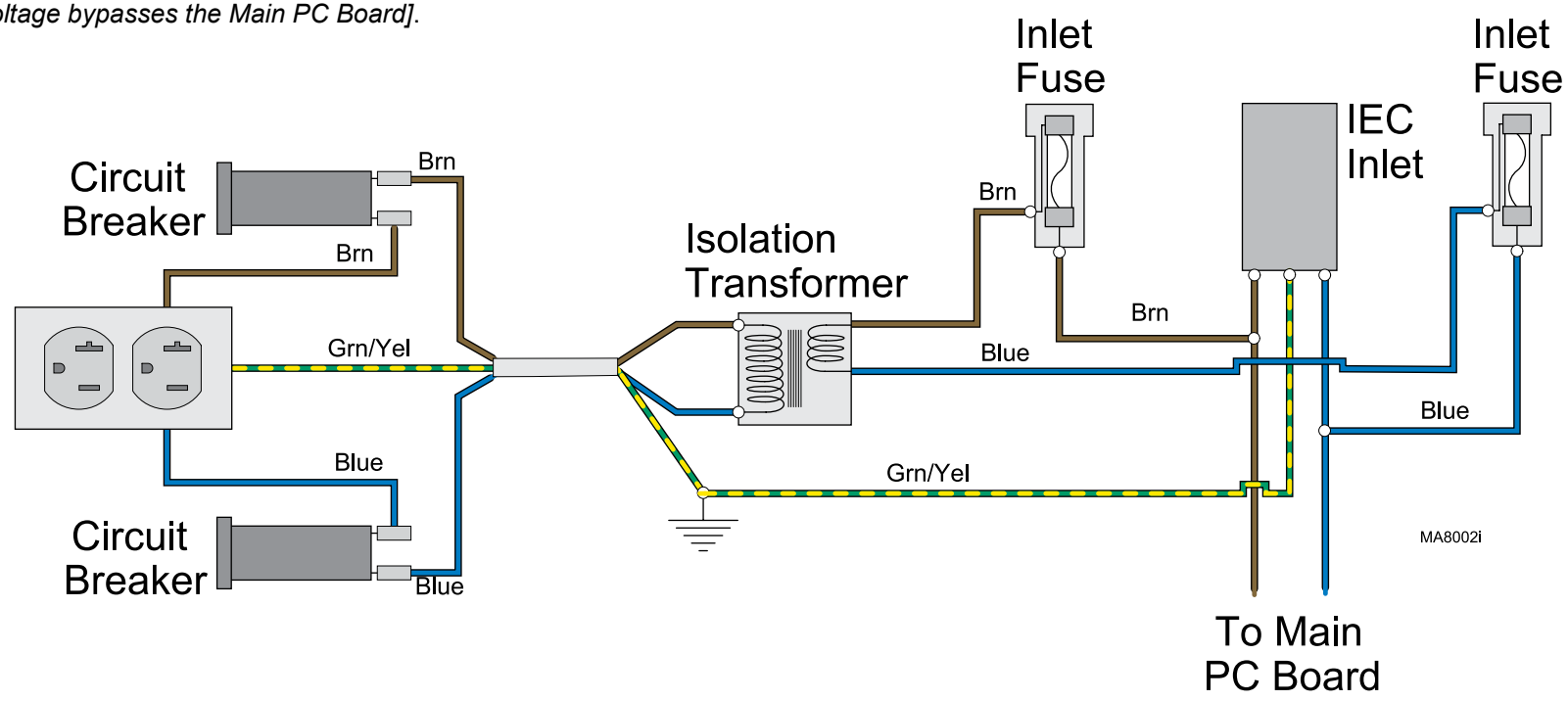
Models:	625 (-001 /-003 /-004 /-006	
Serial Numbers:	all	

Table Receptacle (optional)

No Power At Table Receptacle.....A-5

This illustration shows only the components that affect the table receptacle.
A detailed description of current flow during this function also appears below.

Table Receptacle
115 VAC is supplied directly to the receptacle thru two inlet fuses, isolation transformer, and circuit breakers.
[Voltage bypasses the Main PC Board].



Models:	625 (-001 /-003)	
Serial Numbers:	V2200 thru V1149713	

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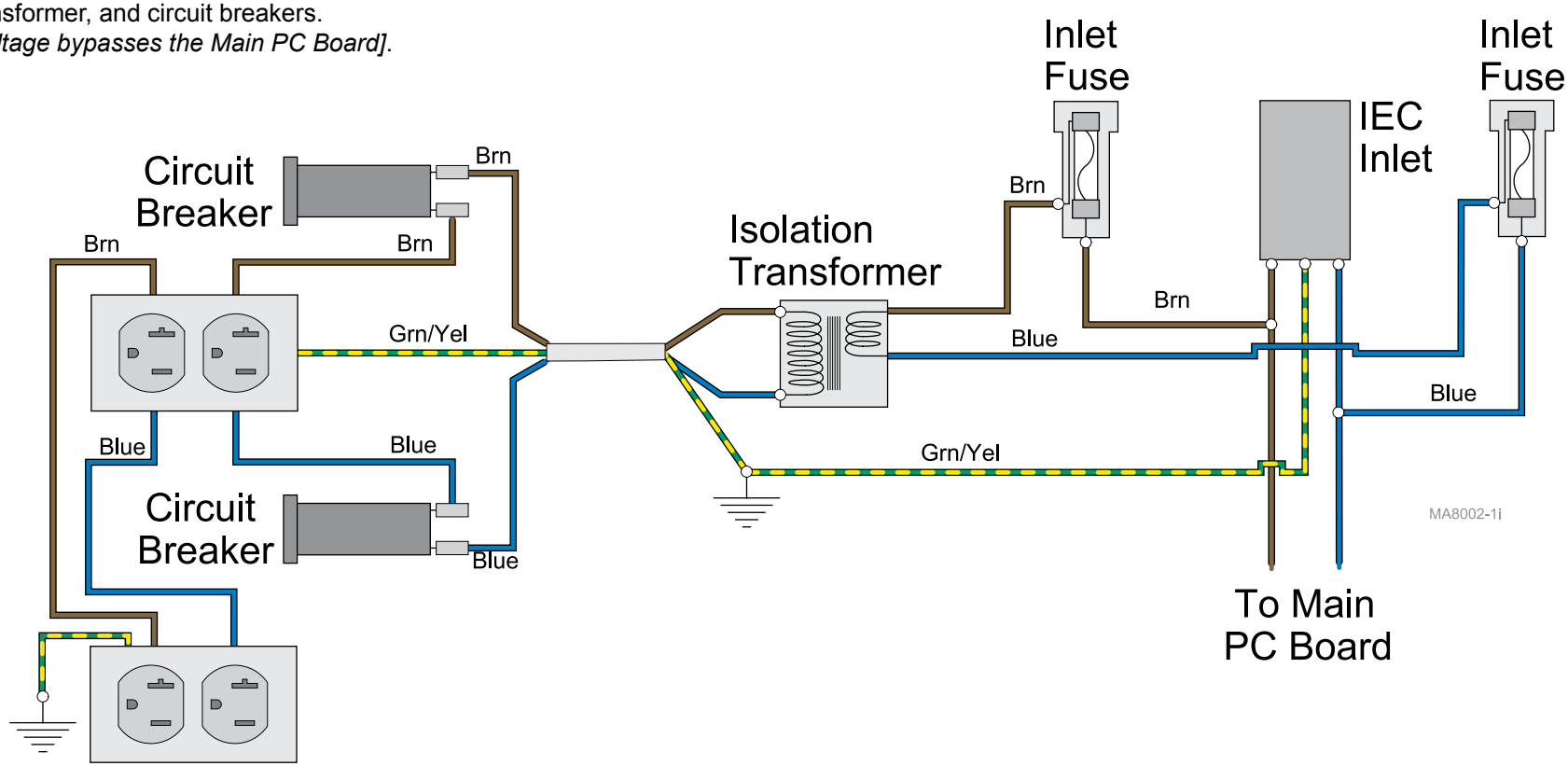
Table Receptacles (optional)

No Power At Table Receptacle.....A-5

This illustration shows only the components that affect the table receptacles.
A detailed description of current flow during this function also appears below.

Table Receptacles
115 VAC is supplied directly to the receptacles thru two inlet fuses, isolation transformer, and circuit breakers.
[Voltage bypasses the Main PC Board].



Models:	625 (-001 /-003)	
Serial Numbers:	V1149714 thru Present	

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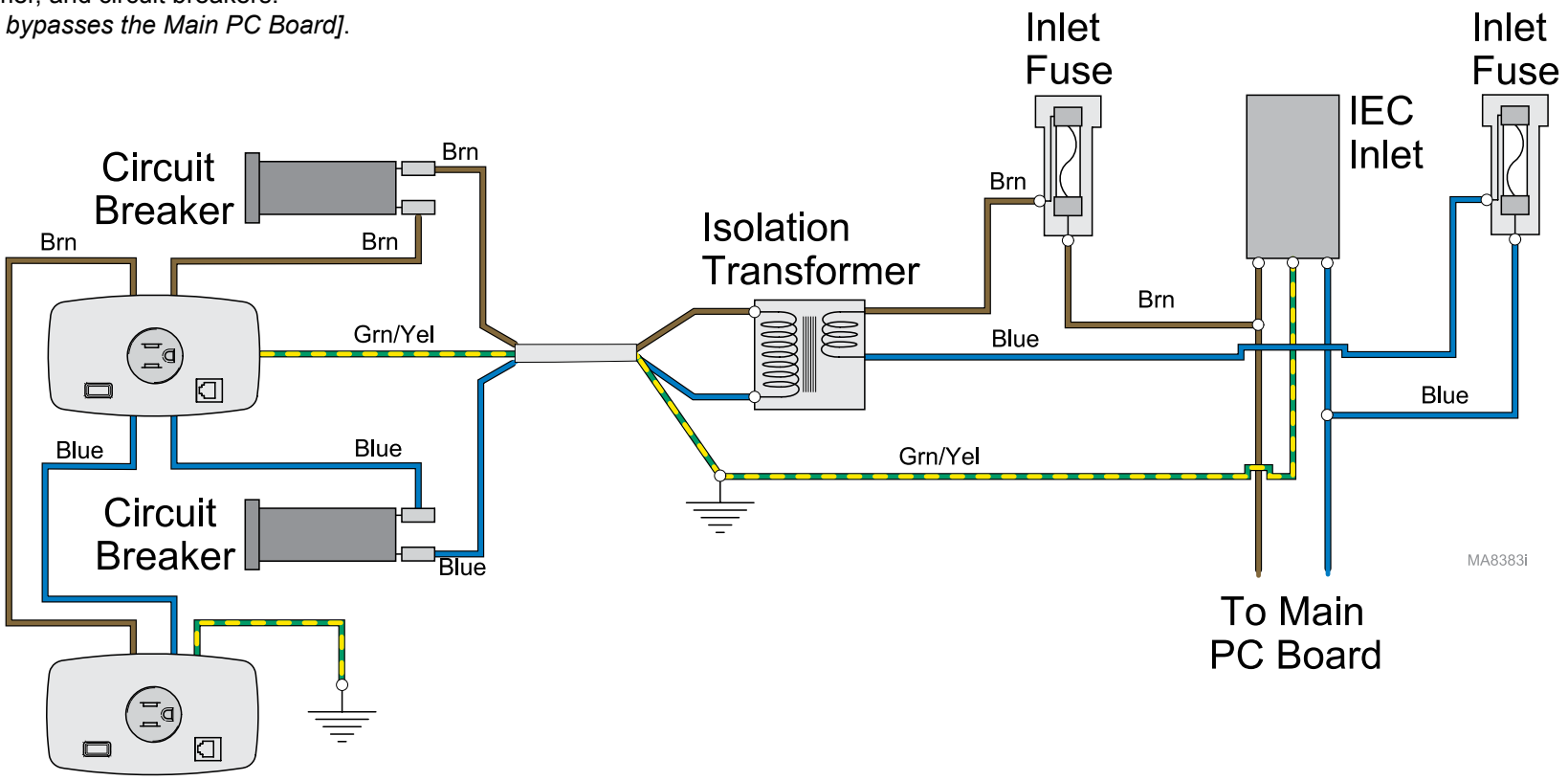
Always verify model & serial number

Table Receptacles

No Power At Table Receptacle.....A-5

This illustration shows only the components that affect the table receptacles.
A detailed description of current flow during this function also appears below.

Table Receptacles
115 VAC is supplied directly to the receptacles thru two inlet fuses, isolation transformer, and circuit breakers.
[Voltage bypasses the Main PC Board].



Models:	625 (-004)	
Serial Numbers:	All	

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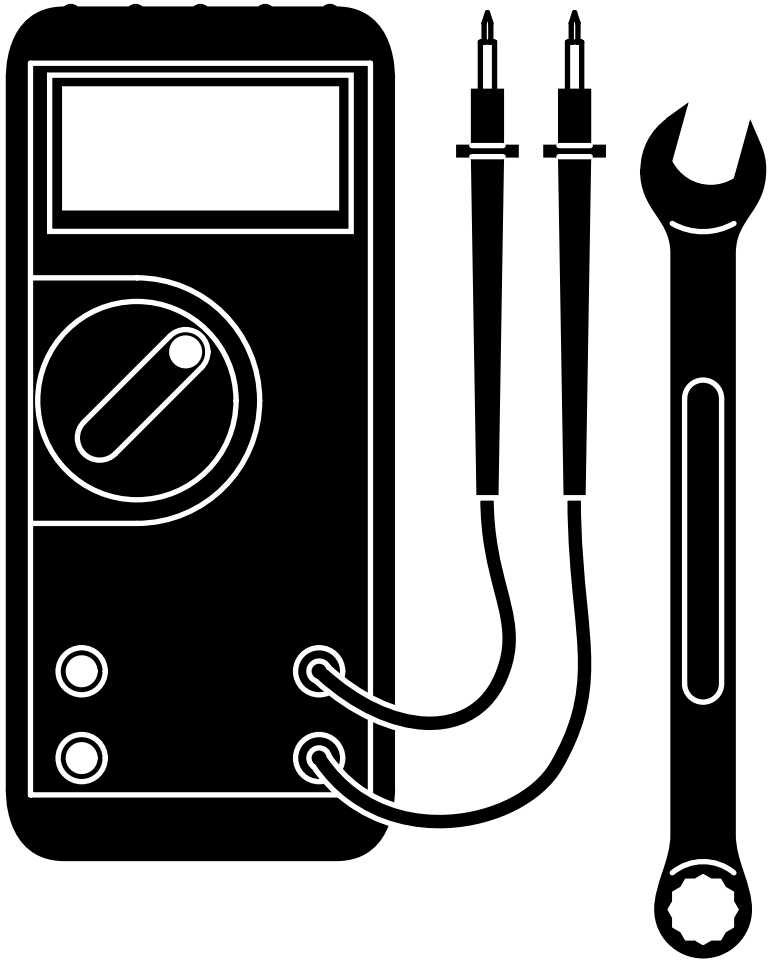
Always verify model & serial number

Section B

Testing



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Foot / Hand Controls

Isolating a Malfunction

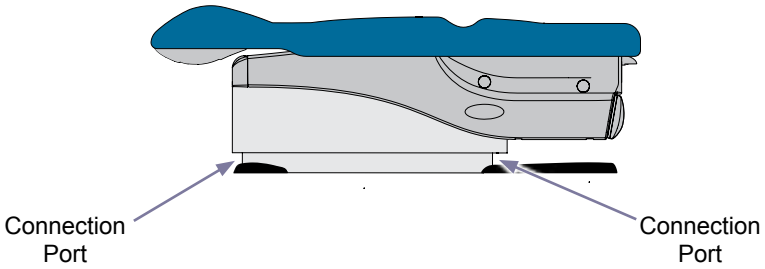
To isolate a malfunction, try activating the inoperable function(s) from hand control and foot control.

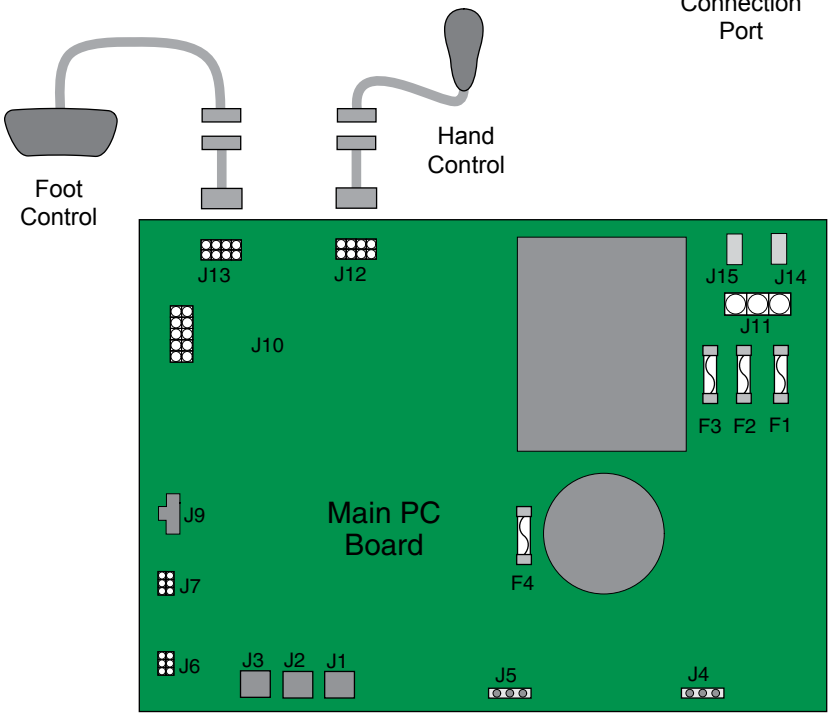
If function(s) are inoperable from the foot / hand control...

A) Plug the foot / hand control into the other connection port.
B) Secure Inlet harness connection(s) on main PC board at J12 & J13.

If function(s) are operable:
C) Replace Inlet harness at malfunctioning connection port.

If function(s) still inoperable:
D) Perform the ***Foot / Hand Control Test.***





MA8118i

Note
Refer to "Wireless Controls" if applicable.

Models:	***625***	
Serial Numbers:	*all*	

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Always verify model & serial number

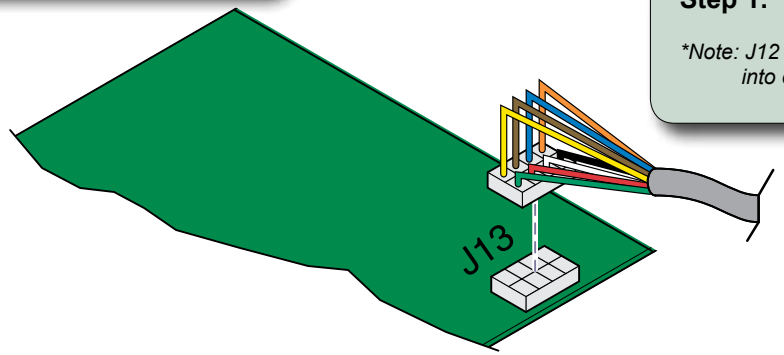
Access Procedures.....C-1
Wiring Diagrams.....D-1

Foot / Hand Control Test

Note
Refer to "Wireless Controls" if applicable.

Step 1: Disconnect wire harness from J12 and J13 on main PC board.

**Note: J12 and J13 are interchangeable. Either harness could be plugged into either J12 or J13.*

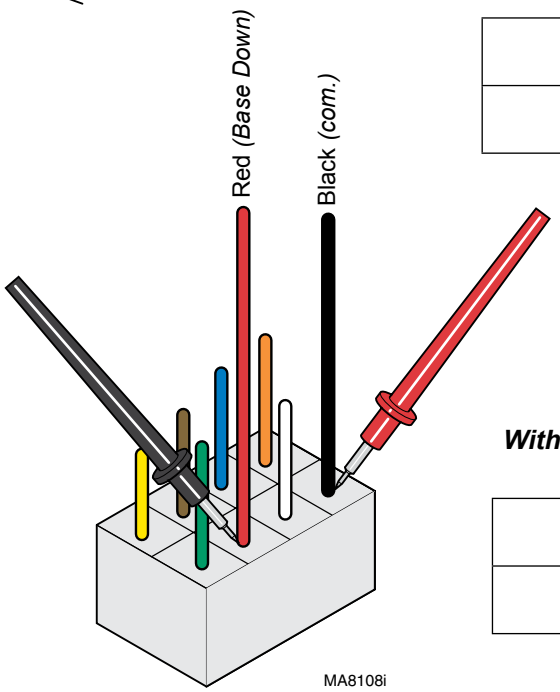


Step 2: Set meter to Ω.

Step 3: Place one meter probe on black wire (common) of foot / hand control harness.

Place other meter probe on the wire that corresponds to the switch to be tested.

Switch.....Wire Color
Base Up.....white
Base Down.....red
Back Up.....green
Back Down.....orange
Home.....blue
Stop.....brown
Quick Exam™.....yellow



With switch "untripped"...

Meter Reading	*Required Action*
Any resistance reading	Replace control / switch membrane.
OL	Switch is good. Check fuses.

With switch "tripped"...

Meter Reading	*Required Action*
Less than or = to 5 ohms	Switch is good. Check fuses.
OL	Replace control / switch membrane.

Models:	***625***	
Serial Numbers:	*all*	

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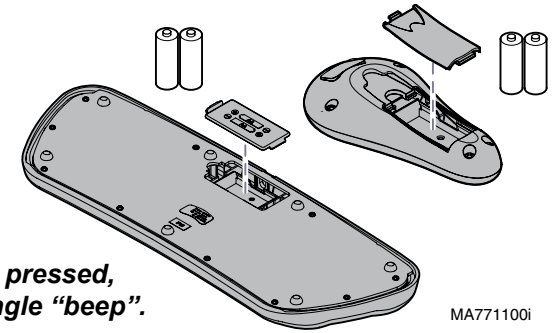
Isolating a Malfunction



MA771100i

Testing

- ***When any control button is pressed, that controller sounds a single "beep".***
  (All functions operate)

  Cause: 1. *Low battery*
  2. *Faulty PC board in controller*

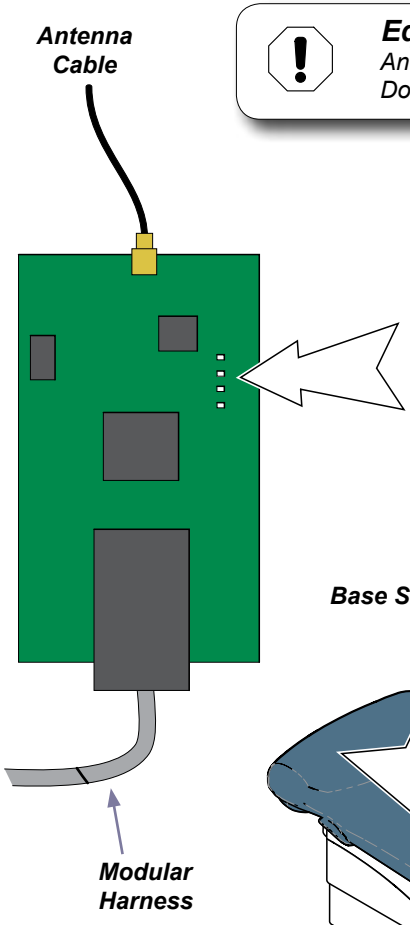
  Solution: 1. *Replace batteries (size: AA)*
  2. *Replace PC board in controller*

- ***When any control button is pressed, nothing happens.***
  (No "beeps", no movement, etc.)

  Check: 1. *Perform Association Procedure*
  2. *LEDs on base station PC board*

  If LED status is normal (see illustration):
  • *Check LEDs on foot control PC board (see next page).*

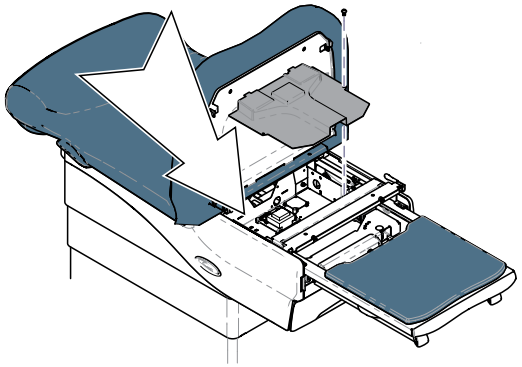
  If no LEDs are illuminated, check the following:
  • *Modular harness (loose connections, damage, etc.)*
  • *Power supply to chair*
  • *Replace base station PC board if necessary.*



Equipment Alert
Antenna connection is very delicate.
Do not kink wire or apply stress to connection.

LEDs	Normal Status
TX	(**OFF** - except during Association Procedure)
RX	(**ON** - except during Association Procedure)
COM	(**ON**)
PWR	(**ON**)

Base Station PC Board



MA8052i

Models:	**625**	
Serial Numbers:	*all*	

Testing *- continued*

- ***When any control button is pressed, nothing happens.*** *- continued*
  (No "beeps", no movement, etc.)

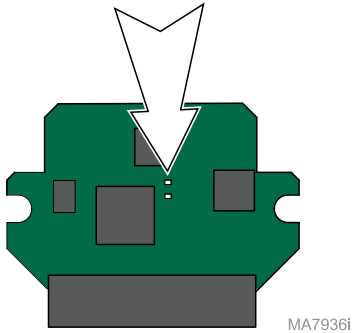
  (see previous page for Checks 1 & 2)
  Check: 3. LEDs on hand / foot control PC board
  (press any button on hand / foot control)

  If LEDs function properly (see illustration):
  - *Check antenna connection. (see parts list for detail)*
  - *Replace antenna if necessary.*

  If LEDs do not function properly:
  - *Replace batteries in controller (size: AA)*
  - *Replace controller touch membrane*
  - *Replace controller PC board if necessary.*

LEDs

D2
D3



MA7936i

Hand / Foot Control PC Board
(refer to parts list for location)

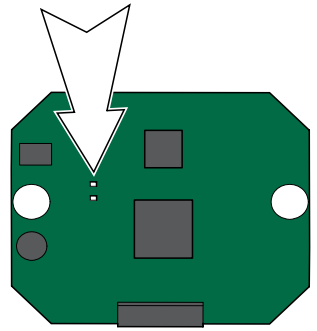
Normal Status

*(**ON** - only when a button on controller is pressed)*

*(**OFF** - except during Association Procedure)*

LEDs

D10
D11



MA8444i

Hand Control / w Scale PC Board
(625-004 Only)
(refer to parts list for location)

Models:	***625***	
Serial Numbers:	*all*	

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Association Procedure

The wireless controllers will only function with the chair they have been "associated" with. This prevents unwanted movement in locations with more than one chair.

Each wireless controller's association is preset at the factory. This procedure is only required in the event of a malfunction, if a new controller is purchased, or if you are attempting to use the controller with a chair other then the one it was originally associated with.

***NOTE:** The base station PC board only stores the last two associated controllers. To ensure proper operation, Midmark recommends reassociating both controllers (hand & foot), even if only one new controller is purchased.*

Association Procedure:

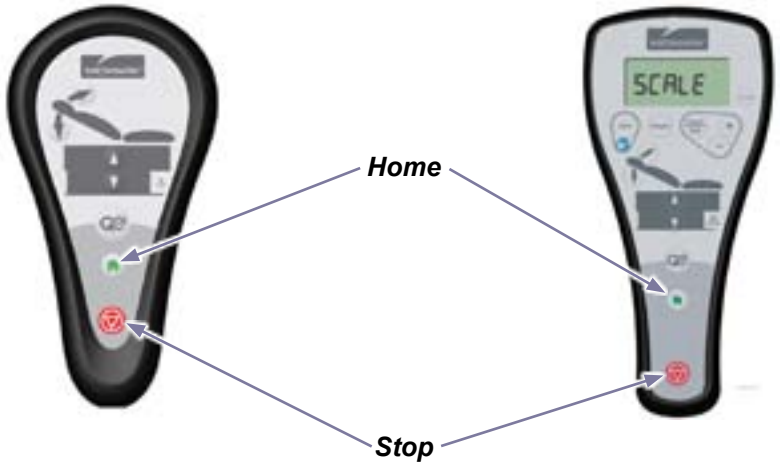
A) Disconnect power to the table for at least 3 seconds.

B) Reconnect power, wait for the power up beep sequence from the table, then press & hold the **Stop** & **Home** buttons on the **wireless** controller until you hear three "beeps".*

** Note: Step B must be performed within 10 seconds of the power up beep sequence from the table.*

C) Check for proper operation of wireless controller.

*D) If associating a hand **and** foot control, repeat procedure using the other wireless controller.*



Models:	625	
Serial Numbers:	all	

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Always verify model & serial number

Base Function Components

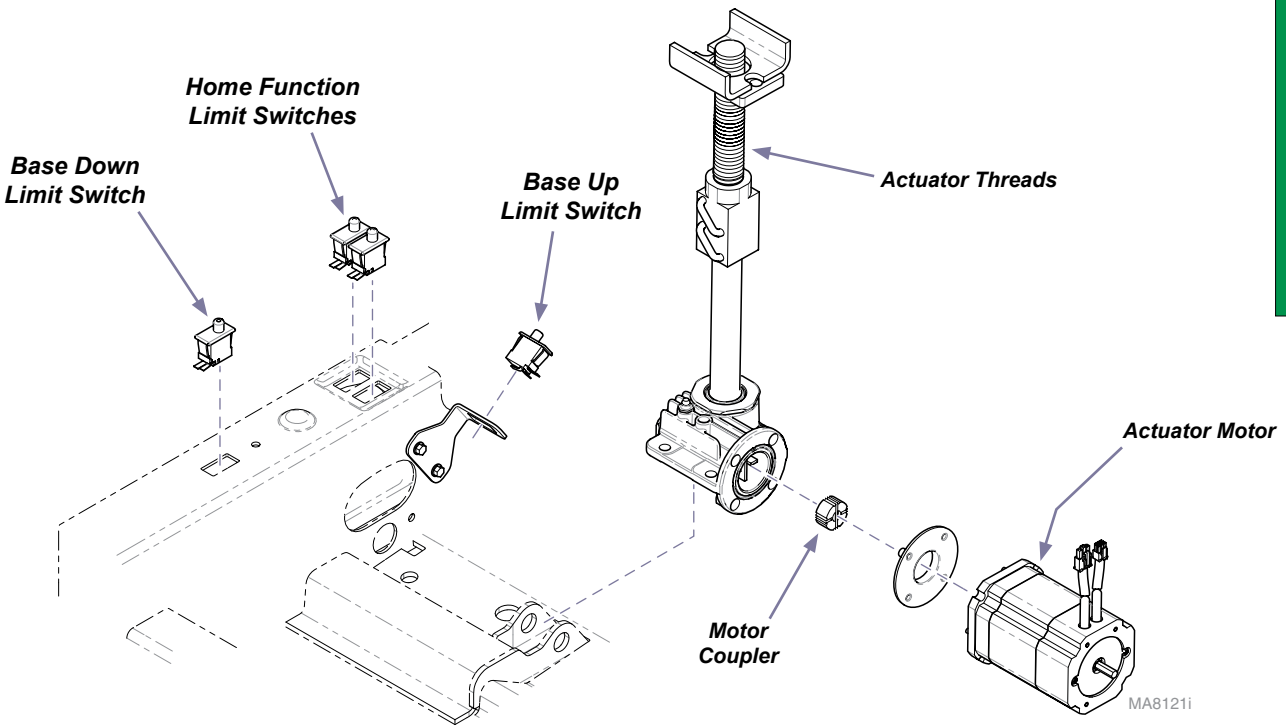
Isolating a Malfunction

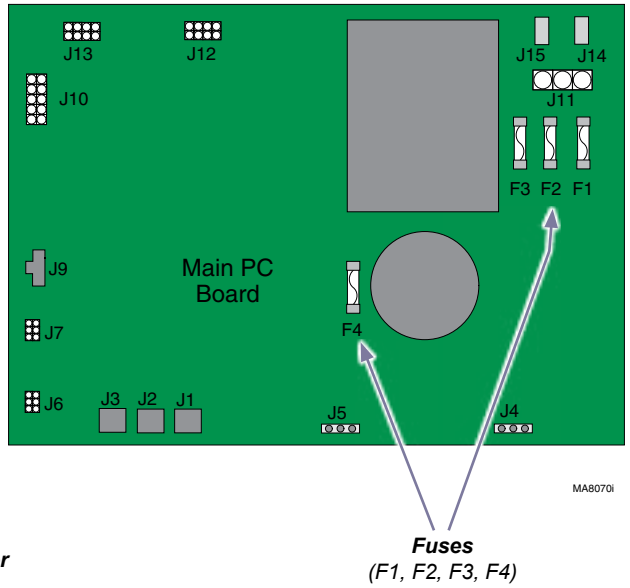
Limit Switch Test.....B-8
Wiring Diagrams.....D-1

Base Actuator / Motor Replacement.....003-2072-00

This illustration shows the base limit switches, the serviceable components of the base actuator, and the fuses on the main PC board. Use the table below to isolate the malfunction.

Problem	***Required Action***
Motor does not run.	Check main PC board fuses *(F1, F2, F3, & F4)*
	Perform ***Limit Switch Test.***
Base function operates, but makes grinding / squeaking noises	Clean / lube actuator threads. Remove any debris from base slides. *Note: Do not lubricate base slides.* Replace actuator if necessary*.
Motor runs, but table does not move.	Inspect / replace motor coupler.





Models:	***625***	
Serial Numbers:	*all*	

**** Replacement instructions are provided with the part. They are also available on midmark.com, or by clicking on the blue link.***

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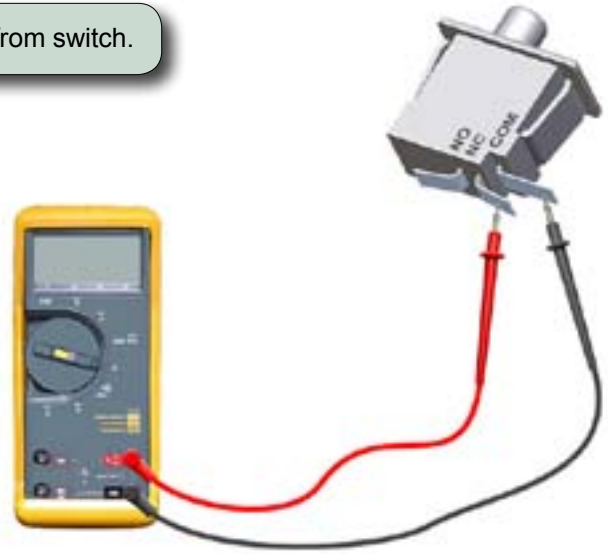
Always verify model & serial number

Limit Switch Test

Step 1: Disconnect wires from switch.



Step 2: Place meter probes on **COM** and **NC** terminals.

Note: Check switch "tripped" and "untripped".

With switch "untripped"...

Meter Reading	*Required Action*
OL	Replace limit switch
less than 5 ohms	Limit switch - OK Perform ***PC Board Test***

With switch "tripped"...

Meter Reading	*Required Action*
OL	Limit switch - OK Perform ***PC Board Test***
less than 5 ohms	Replace limit switch

Models:	***625***	
Serial Numbers:	*all*	

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Base Function Components - continued

PC Board Test

Calibration Procedure.....*B-18*

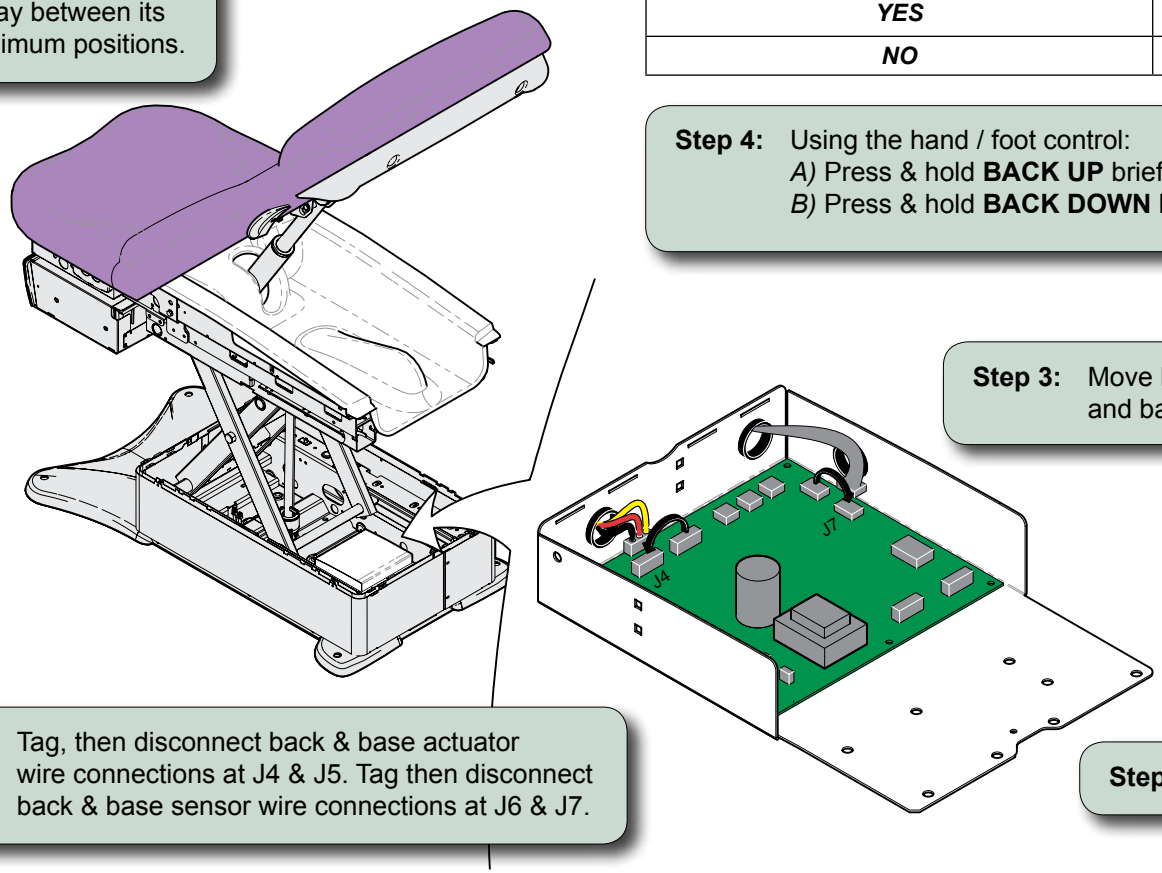
Base Actuator / Motor Replacement.....*003-2072-00*
PC Board Replacement.....*003-2073-00*

Equipment Alert
The back limit switches will not stop movement during this test.
Do not run past max. / min. positions.

Step 1: Move Back section so that it is approx. halfway between its maximum & minimum positions.

Did BASE move Up and Down in Step 4?	*Required Action*
YES	Replace main PC board
NO	Replace base actuator

Step 4: Using the hand / foot control:
A) Press & hold **BACK UP** briefly.
B) Press & hold **BACK DOWN** briefly.



Step 3: Move base actuator connection to J4 and base sensor connection to J7.

Step 2: Tag, then disconnect back & base actuator wire connections at J4 & J5. Tag then disconnect back & base sensor wire connections at J6 & J7.

Step 5: Calibrate PC Board.

MA8077i

Models:	***625***	
Serial Numbers:	*all*	

**** Replacement instructions are provided with the part. They are also available on midmark.com, or by clicking on the blue link.***

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Always verify model & serial number

Back Function Components

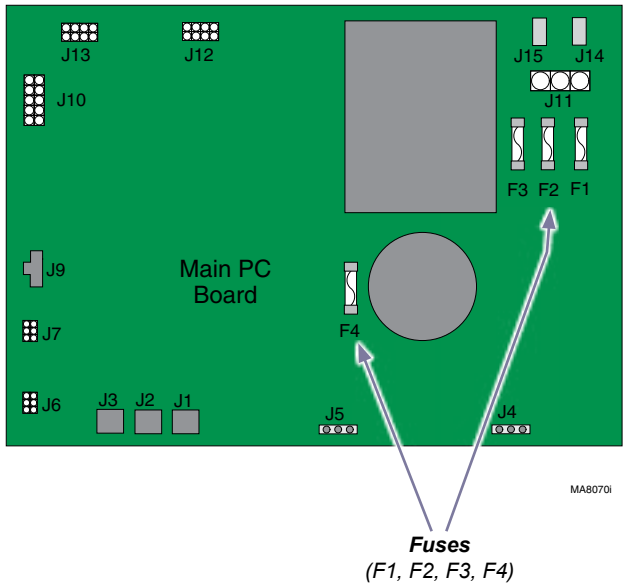
Limit Switch Test..... B-11
Wiring Diagrams.....D-1

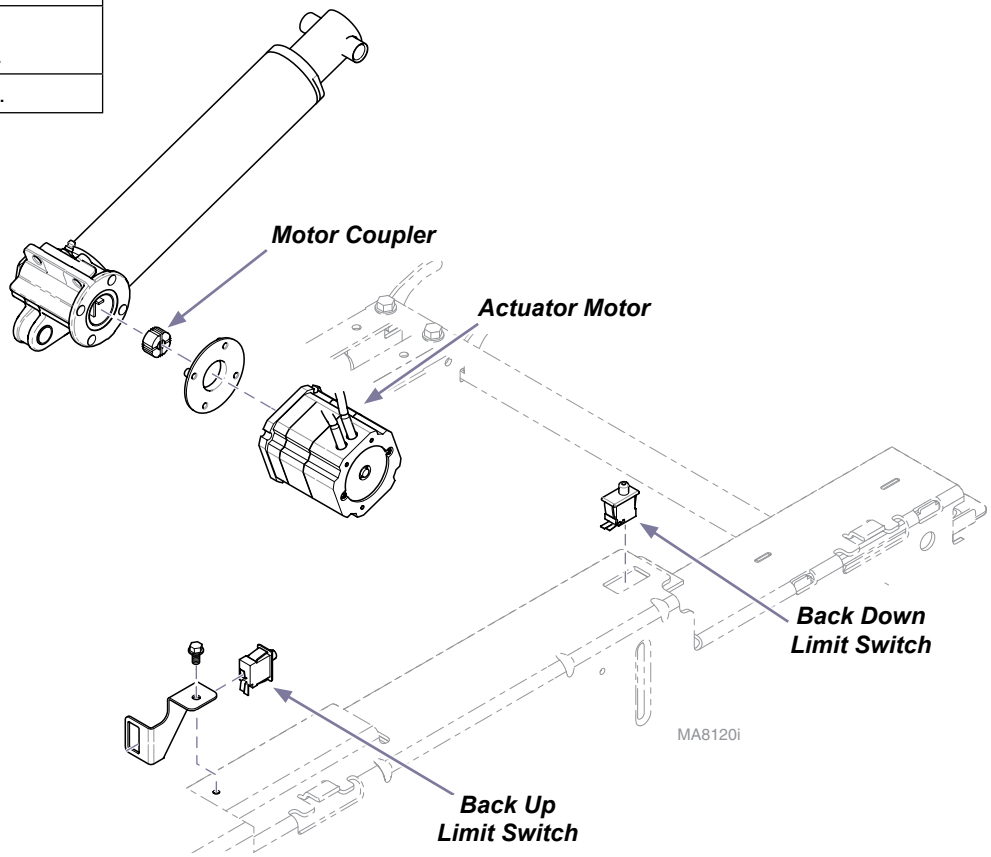
Back Actuator /
Motor Replacement..... 003-2071-00

Isolating a Malfunction

This illustration shows the back limit switches, the serviceable components of the back actuator, and the fuses on the main PC board. Use the table below to isolate the malfunction.

Problem	***Required Action***
Motor does not run.	Check main PC board fuses *(F1, F2, F3, & F4)*
	Perform ***Limit Switch Test***
Back function operates, but makes grinding / squeaking noises	Clean / lube actuator threads. Replace actuator if necessary*.
Motor runs, but table does not move.	Inspect / replace motor coupler.





Models:	***625***	
Serial Numbers:	*all*	

**** Replacement instructions are provided with the part. They are also available on midmark.com, or by clicking on the blue link.***

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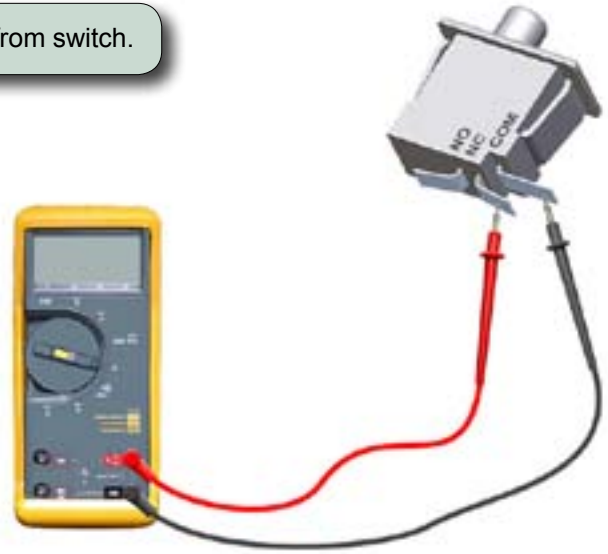
Always verify model & serial number

Limit Switch Test

Step 1: Disconnect wires from switch.



Step 2: Place meter probes on **COM** and **NC** terminals.

Note: Check switch "tripped" and "untripped".

With switch "untripped"...

Meter Reading	*Required Action*
OL	Replace limit switch
less than 5 ohms	Limit switch - OK Perform ***PC Board Test.***

With switch "tripped"...

Meter Reading	*Required Action*
OL	Limit switch - OK Perform ***PC Board Test.***
less than 5 ohms	Replace limit switch

Models:	***625***	
Serial Numbers:	*all*	

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Always verify model & serial number

Back Function Components - continued

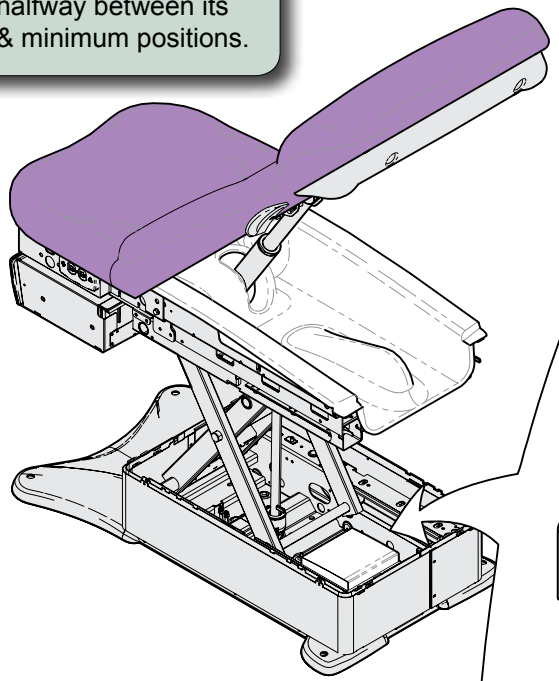
PC Board Test

Calibration Procedure *B-18*

Back Actuator / Motor Replacement *003-2071-00*
PC Board Replacement *003-2073-00*

Equipment Alert
The base limit switches will not stop movement during this test.
Do not run past max. / min. positions.

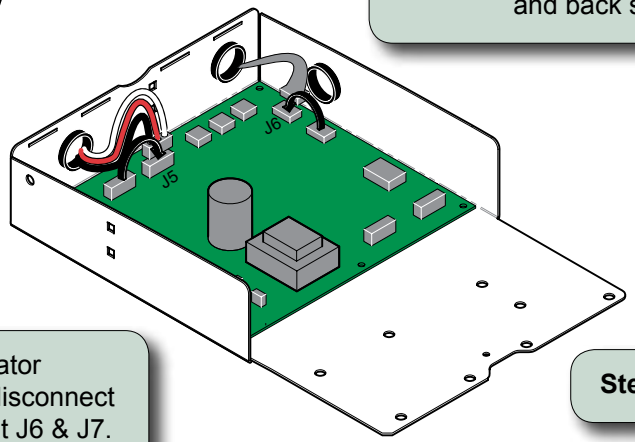
Step 1: Move Base section so that it is approx. halfway between its maximum & minimum positions.



Did BACK move Up and Down in Step 4?	*Required Action*
YES	Replace main PC board*
NO	Replace back actuator*

Step 4: Using the hand / foot control:
A) Press & hold **BASE UP** briefly.
B) Press & hold **BASE DOWN** briefly.

Step 3: Move back actuator connection to J5 and back sensor connection to J6.



MA8073i

Step 2: Tag, then disconnect back & base actuator wire connections at J4 & J5. Tag then disconnect back & base sensor wire connections at J6 & J7.

Step 5: Calibrate PC Board.

Models:	***625***	
Serial Numbers:	*all*	

**** Replacement instructions are provided with the part. They are also available on midmark.com, or by clicking on the blue link.***

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Always verify model & serial number

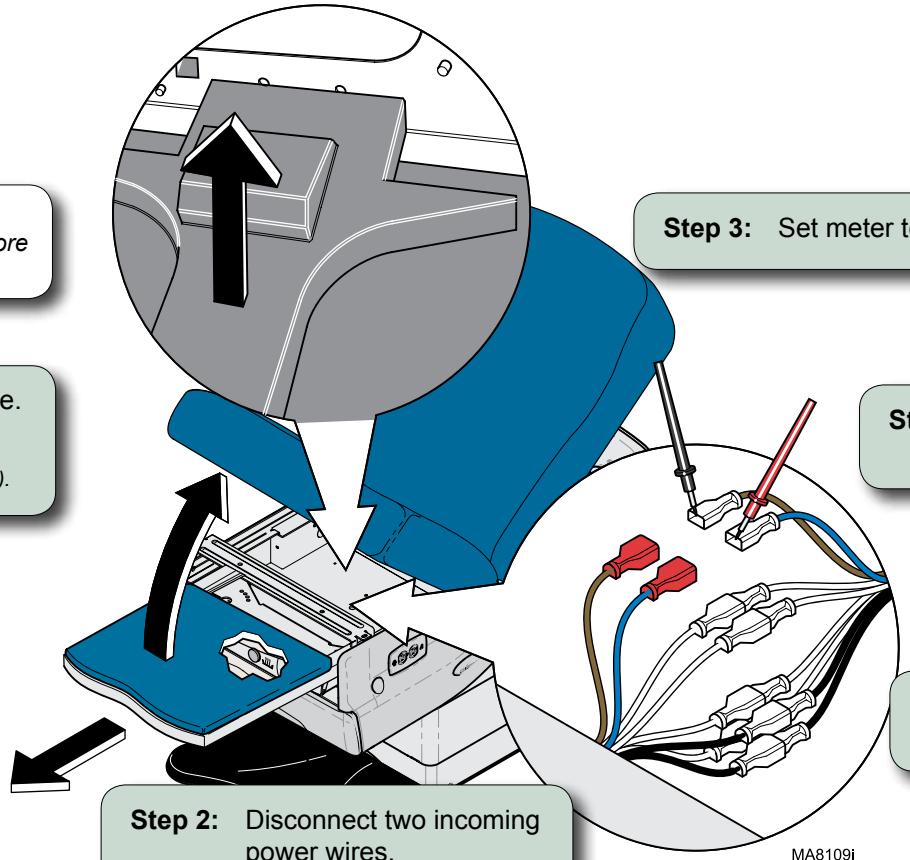
Drawer Heater System

Distribution Board Test

Caution
Unplug power cord before removing stirrup guide.

Step 1: Remove stirrup guide.

Note: If necessary, remove chair arm brace (see Access Procedures).



Step 2: Disconnect two incoming power wires.

Step 3: Set meter to 200 VAC.

Step 4: Place meter probes on incoming power wires.

Step 5: Plug in power cord, then depress switch ON.

Meter Reading	*Required Action*
approx. 115 VAC	Perform ***Heater Switch Test.***
0 VAC	Check connections & distribution board fuses.

Models:	***625 (-001 /-003 /-004 /-006)***	
Serial Numbers:	*all*	

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Heater Switch Test

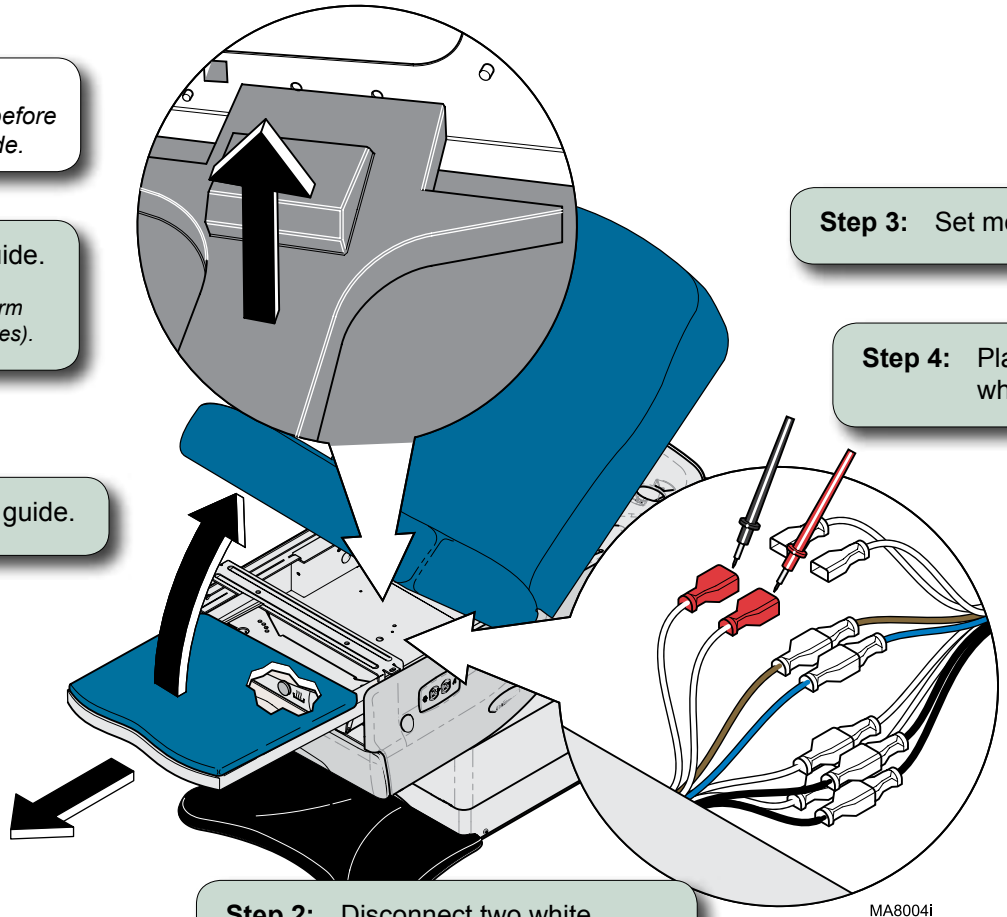
Heater Switch Replacement.....*B-15*
Heater Plate Test.....*B-16*
Chair Arm Brace Removal.....*C-8*

Caution
Unplug power cord before removing stirrup guide.

Step 1: Remove stirrup guide.

Note: If necessary, remove chair arm brace (see Access Procedures).

Step 7: Replace stirrup guide.



Step 2: Disconnect two white leads from drawer heater switch to the drawer heater.

Step 3: Set meter to 200 VAC.

Step 4: Place meter probes on two white leads from switch.

Step 5: Plug in power cord, then depress switch ON.

Caution
Unplug power cord before re-connecting electrical leads.

Step 6: Re-connect electrical leads.

Meter Reading	*Required Action*
0 VAC	Replace switch.
approx. 115 VAC	Switch - OK Perform ***Heater Plate test***

Models:	***625 (-001 /-003 /-004 /-006)***
Serial Numbers:	*all*

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Always verify model & serial number

Drawer Heater System - continued

Access Procedures
Chair Arm Brace Removal.....C-8

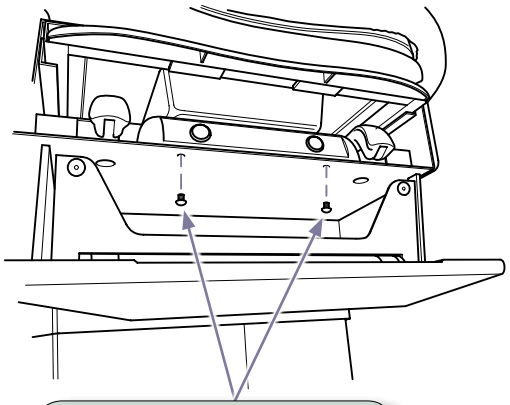
Heater Switch Replacement

(This procedure also applies to the upholstery heater switch)

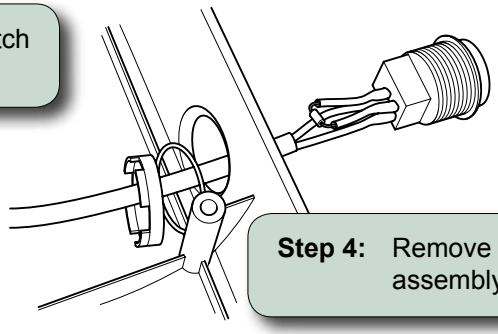
Caution
Unplug power cord before removing stirrup guide.

Step 1: Remove stirrup guide.

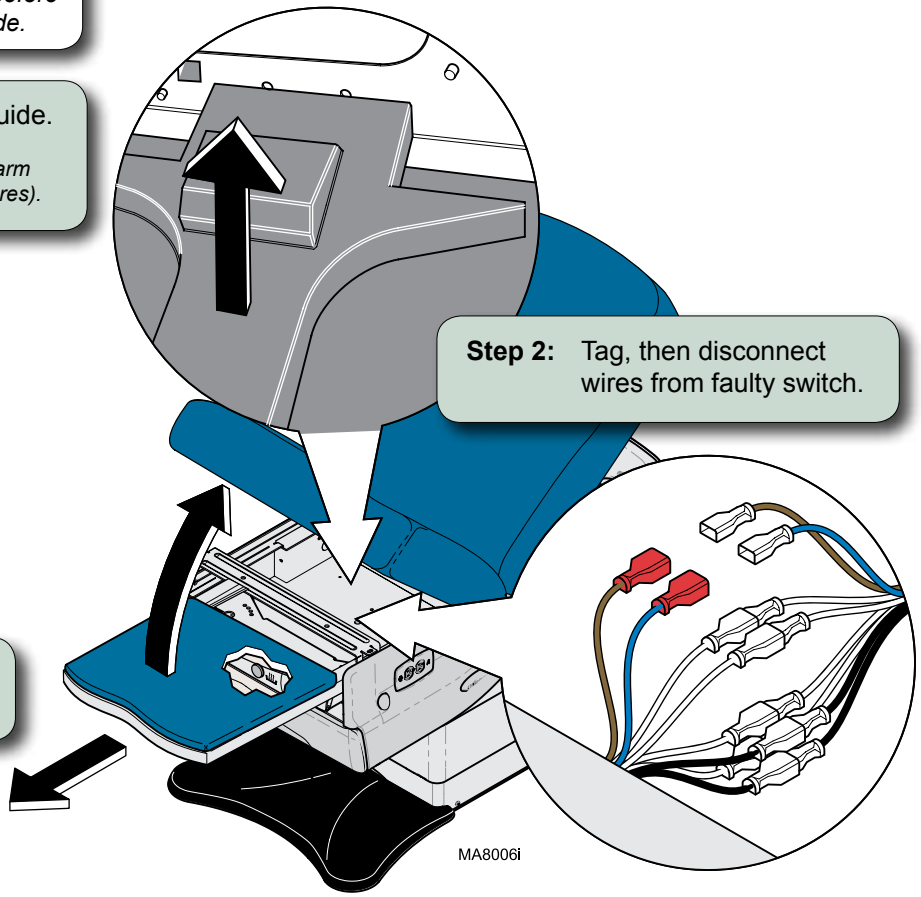
Note: If necessary, remove chair arm brace (see Access Procedures).



Step 3: Remove switch housing.



Step 4: Remove switch assembly.



Step 2: Tag, then disconnect wires from faulty switch.

Step 5:
A) Install switch assembly.
B) Install switch housing.
C) Re-connect switch electrical wires.
D) Replace stirrup guide.

Models:	***625 (-001 /-003 /-004 /-006)***	
Serial Numbers:	*all*	

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Always verify model & serial number

Drawer Heater System - continued

Heater Plate Test

Access Procedures
Chair Arm Brace Removal.....C-8

Caution
Unplug power cord before removing stirrup guide.

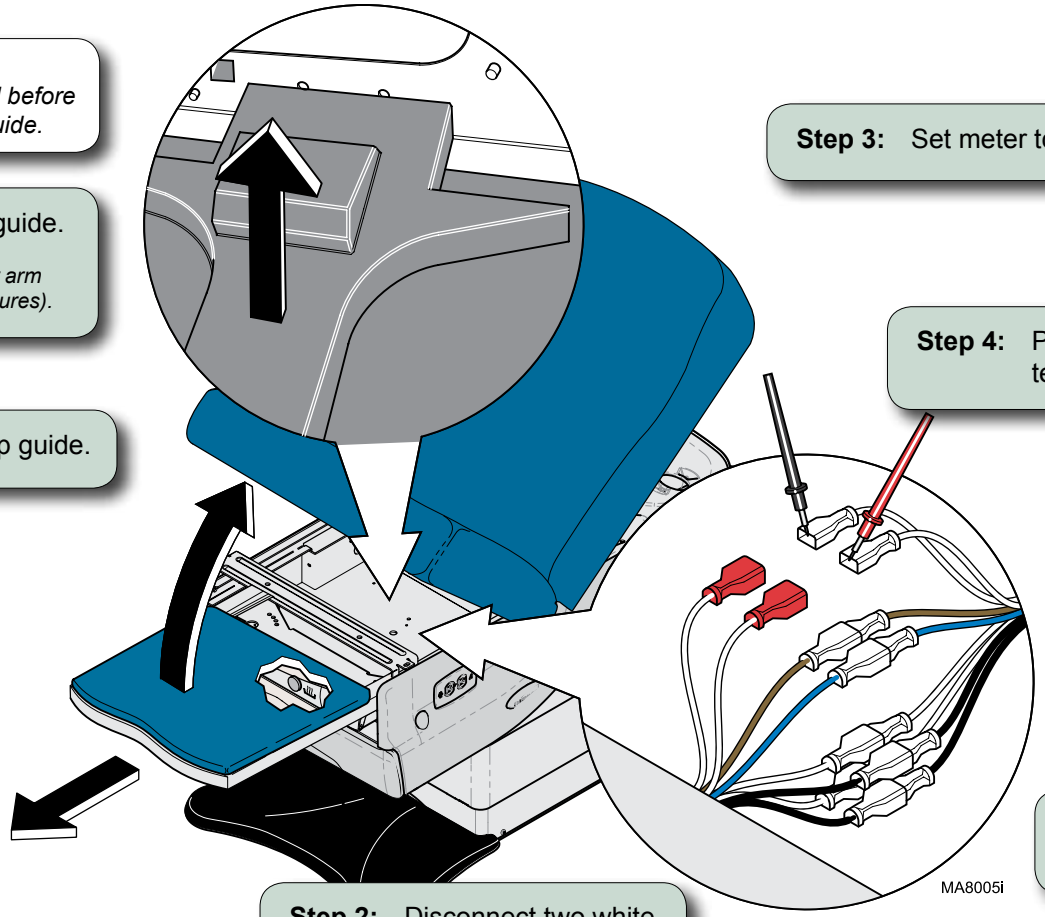
Step 1: Remove stirrup guide.

Note: If necessary, remove chair arm brace (see Access Procedures).

Step 3: Set meter to 2K Ω.

Step 4: Place meter probes on terminals of heater plate wires.

Step 6: Replace stirrup guide.



Step 5: Re-connect electrical leads.

Step 2: Disconnect two white leads from drawer heater switch to the drawer heater.

Meter Reading	*Required Action*
approx. 360 ohms	Heater plate - OK.
0 ohms	Replace Heater Plate.

Models:	***625 (-001 /-003 /-004 /-006)***	
Serial Numbers:	*all*	

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Always verify model & serial number

Drawer Heater System - continued

Heater Plate Replacement

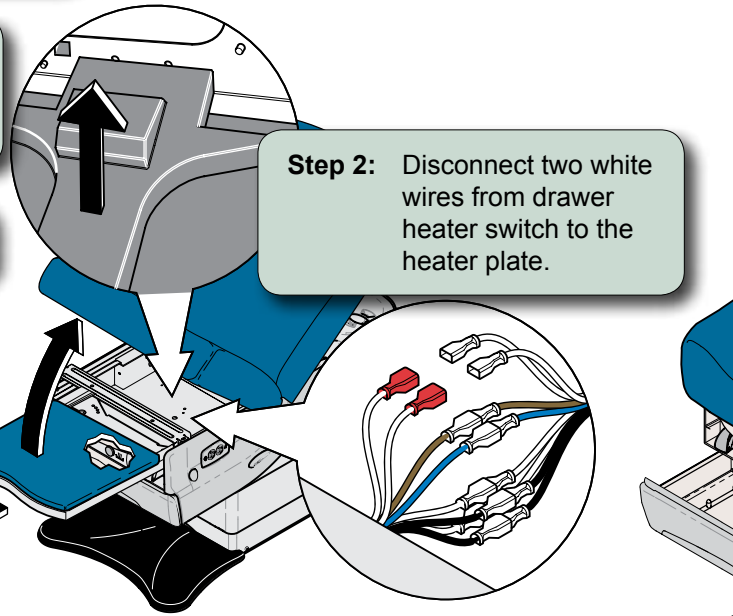
Access Procedures
Chair Arm Brace Removal.....*C-8*

Caution
Unplug power cord before removing stirrup guide.

Step 1: Remove stirrup guide.

Note: If necessary, remove chair arm brace (see Access Procedures).

Step 8: Replace stirrup guide.

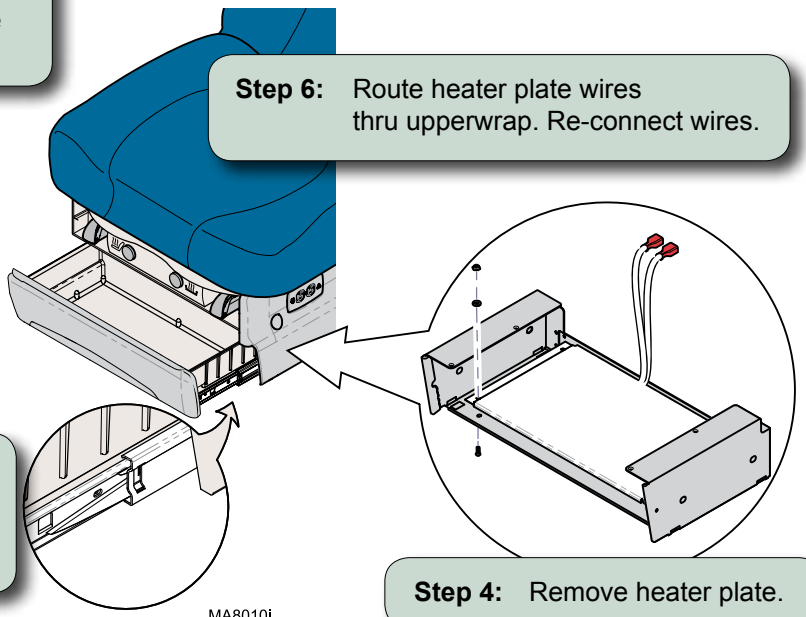


Step 2: Disconnect two white wires from drawer heater switch to the heater plate.

Step 6: Route heater plate wires thru upperwrap. Re-connect wires.

Step 3: Push LH slide lever UP and RH lever DOWN Remove drawer.

Note: Slide levers are clear.



MA8010i

Step 4: Remove heater plate.

Step 7: Install drawer.

Step 5: Install heater plate.

Models:	***625 (-001 /-003 /-004 /-006)***	
Serial Numbers:	*all*	

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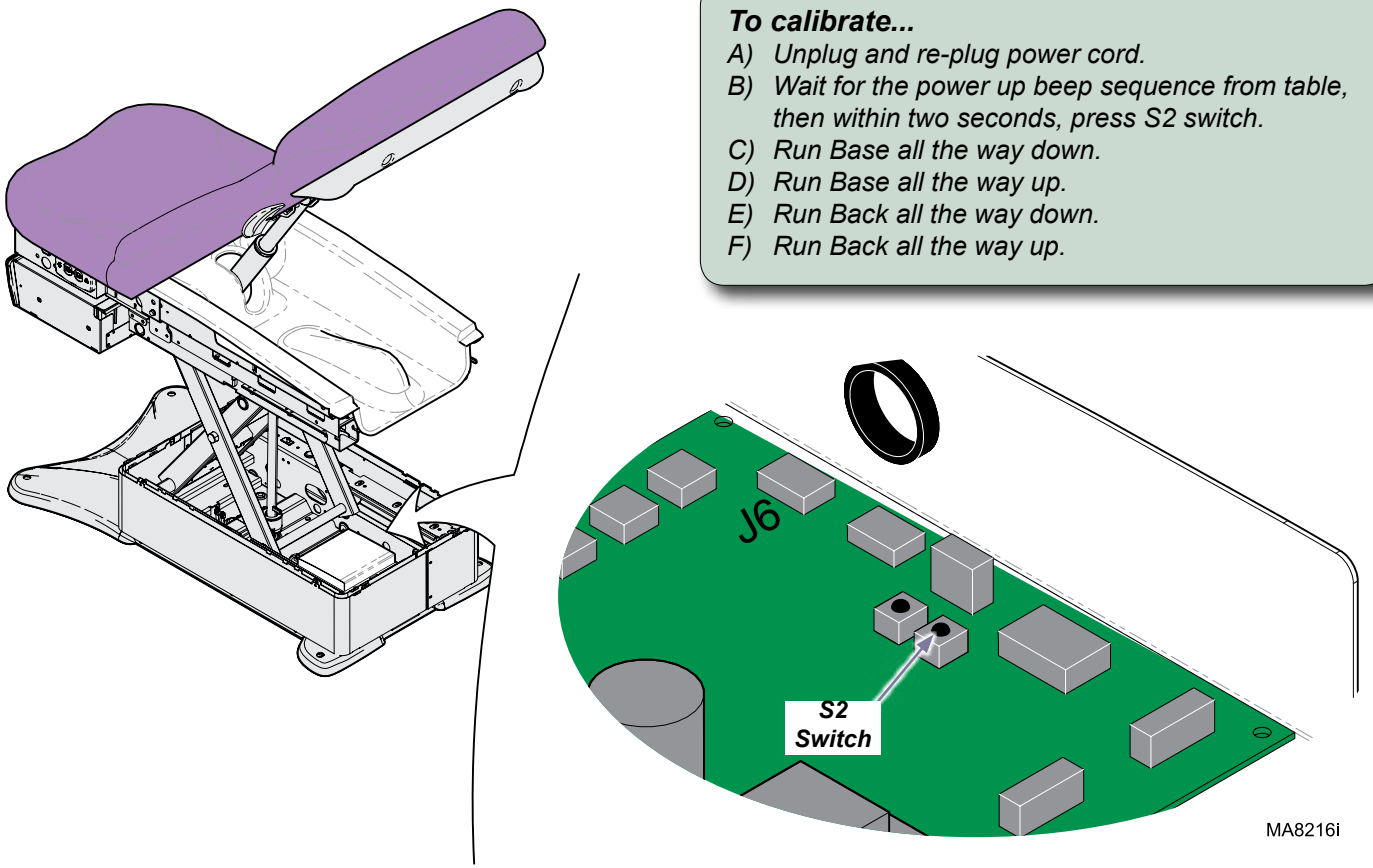
Always verify model & serial number

Note
When S2 switch is pressed you will hear a steady pattern of "beeps". When calibration is completed you will hear three short beeps.

To calibrate...
A) Unplug and re-plug power cord.
B) Wait for the power up beep sequence from table, then within two seconds, press S2 switch.
C) Run Base all the way down.
D) Run Base all the way up.
E) Run Back all the way down.
F) Run Back all the way up.



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Scale Calibration Procedure (625-004 only)

Note
If abort message is displayed, unplug table for 60 seconds.
Remove and reinstall hand control batteries, then repeat step 1.

Step 1:
A) Remove any load from the patient surface.
B) Press and hold the Weight and Plus buttons until "Pause" is displayed for at least one second, then release buttons.

Step 2:
A) When "CLrAL" is diplayed, firmly press and release the plus button.
B) After count down, "Ad50" will be displayed.

Note: Early units may display "Add 50".

Step 3:
A) Place fifty pound calibrated weight on patient surface.
B) Firmly press and release the plus button.
Note: After count down "donE" will be displayed.

Step 4:
A) ***Wait until display clears***, then firmly press and release the weight button.
Note:"50 lbs" should be displayed.
B) Remove calibrated weight.

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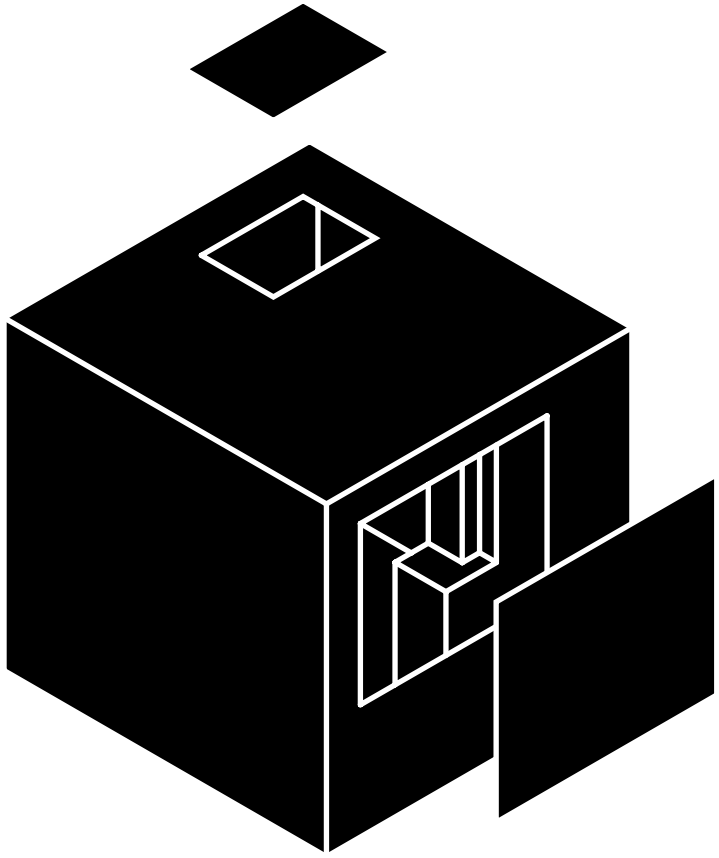
Section C

Access Procedures



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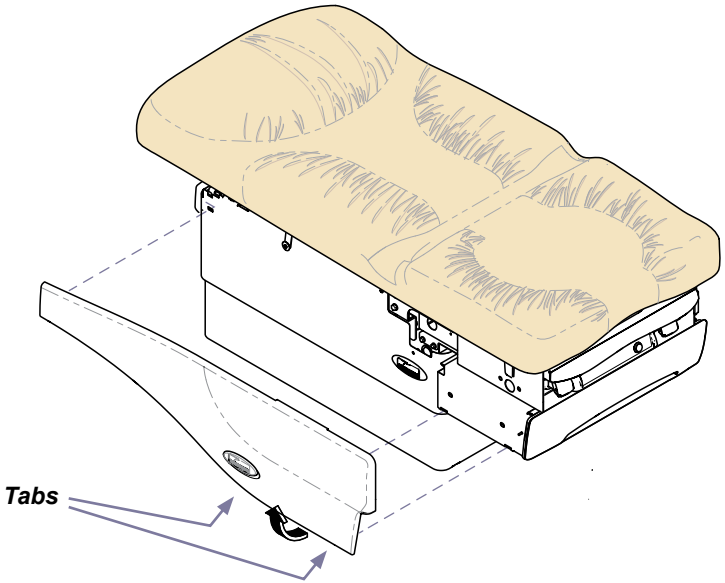
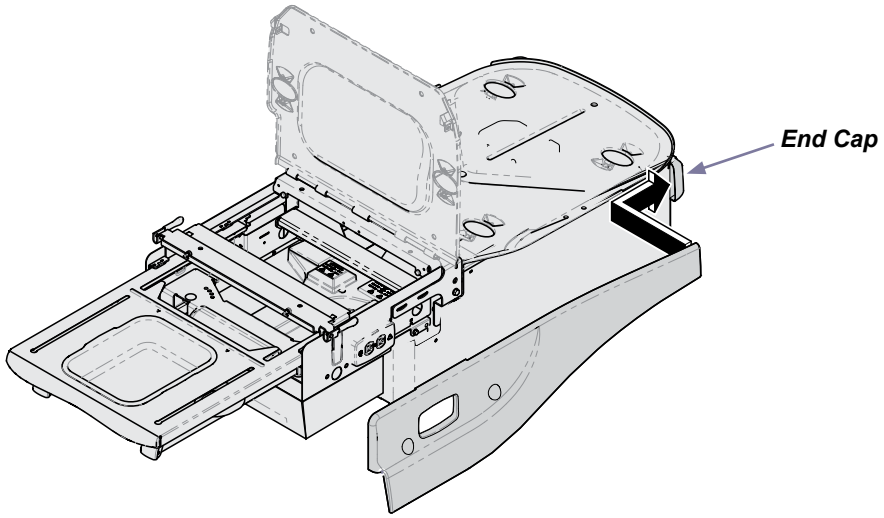
Cladding

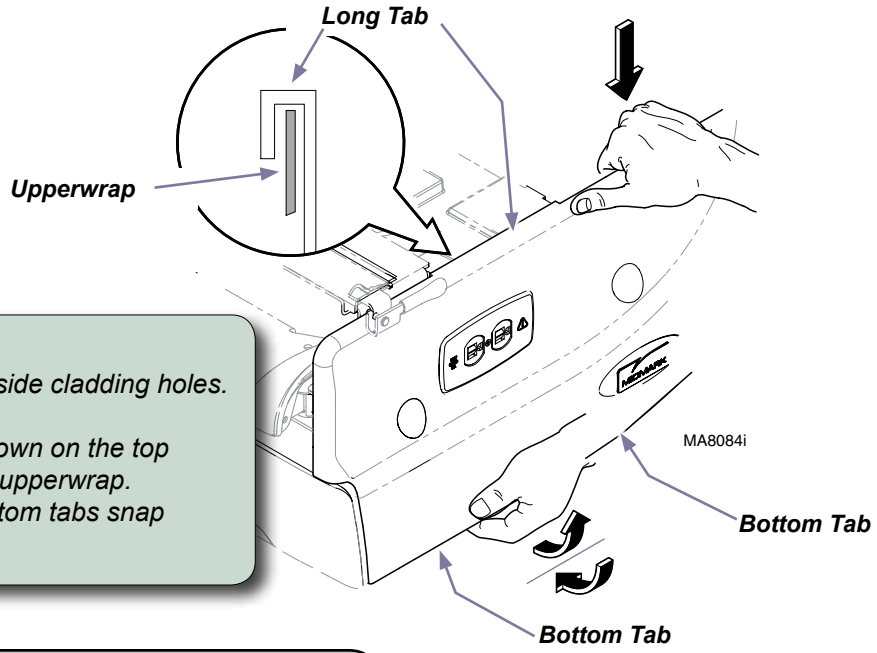
Removal / Installation





To remove cladding...

A) Press two tabs.
B) Pull bottom of cladding away from table.
C) Lift cladding up to remove.



To install cladding...

A) Insert tabs at head-end of cladding into side cladding holes.
B) Slide cladding over upperwrap.
C) Pull bottom of cladding out, then push down on the top to engage the long tab onto top edge of upperwrap.
D) Push bottom of cladding in, until two bottom tabs snap into place.

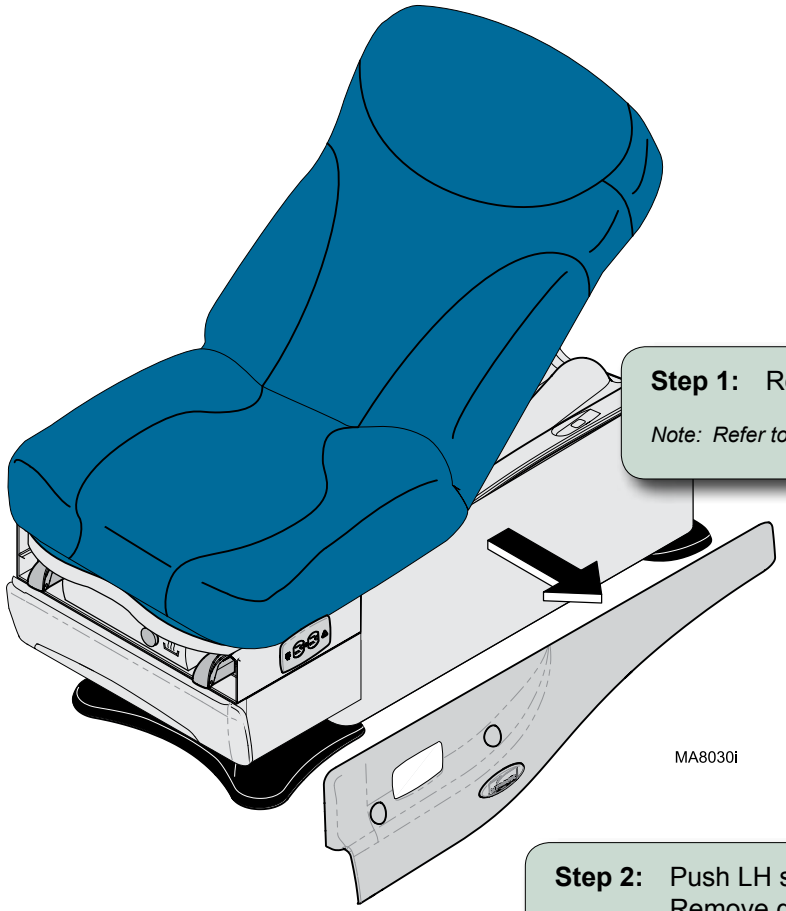
Models:	625	
Serial Numbers:	all	

Table Shrouds

Cladding Removal / Installation C-2

Removal / Installation

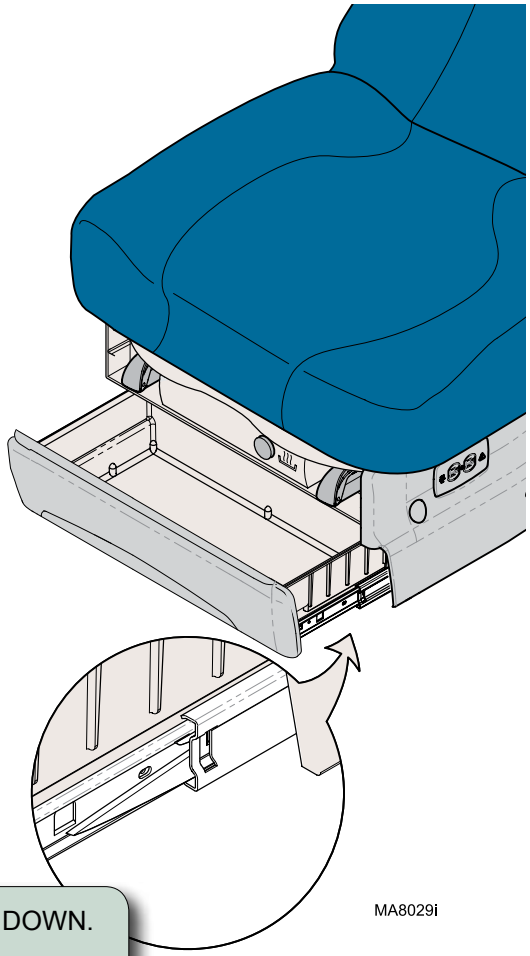
Note
Remove all accessories (ex. chair arms) before performing this procedure.



MA8030i

Step 1: Remove cladding.

Note: Refer to Cladding Removal / Installation.



MA8029i

Step 2: Push LH side lever UP and RH side lever DOWN. Remove drawer.

Note: Side levers are clear plastic.

Models:	625	
Serial Numbers:	all	

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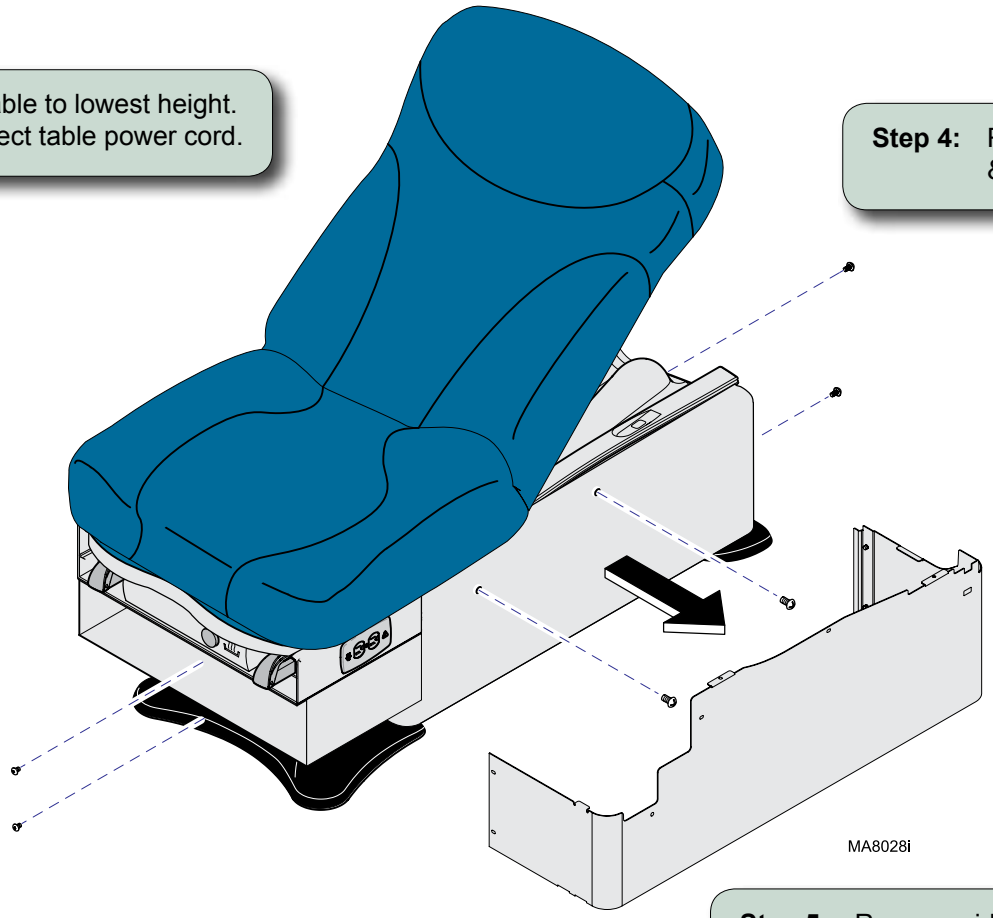
Table Shrouds - continued

Removal / Installation

Step 3: Lower table to lowest height. Disconnect table power cord.

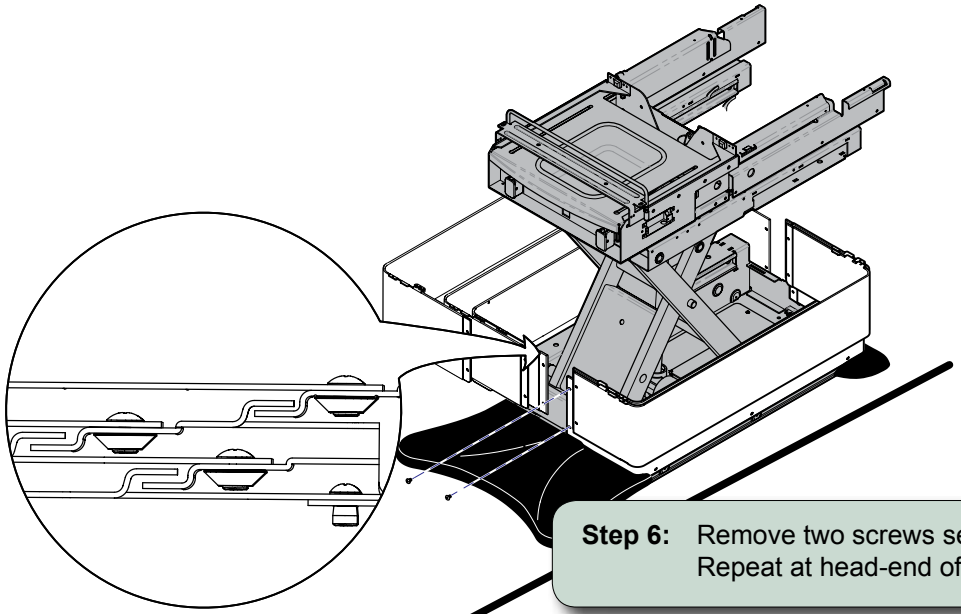
Step 4: Remove screws from head-end & foot-end of outer shrouds.



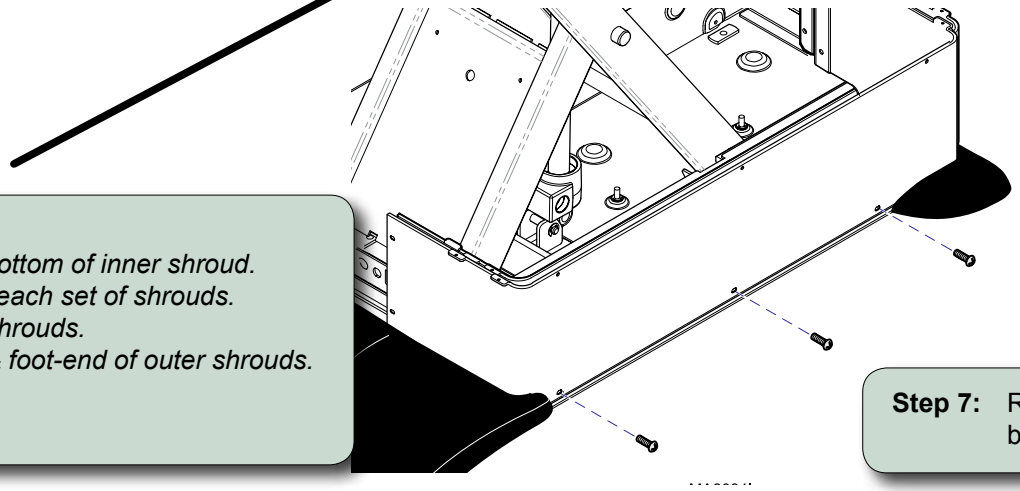
Step 5: Remove side screws & outer shroud. Repeat for other side.

Models:	***625***	
Serial Numbers:	*all*	

Removal / Installation



Step 6: Remove two screws securing each set of shrouds. Repeat at head-end of table.



Step 7: Remove six screws securing bottom of inner shroud.

To install shrouds...

A) Install six screws securing bottom of inner shroud.
B) Install four screws securing each set of shrouds.
C) Install side screws & outer shrouds.
D) Install screws at head-end & foot-end of outer shrouds.
E) Install drawer.
F) Install cladding.

Models:	***625***	
Serial Numbers:	*all*	

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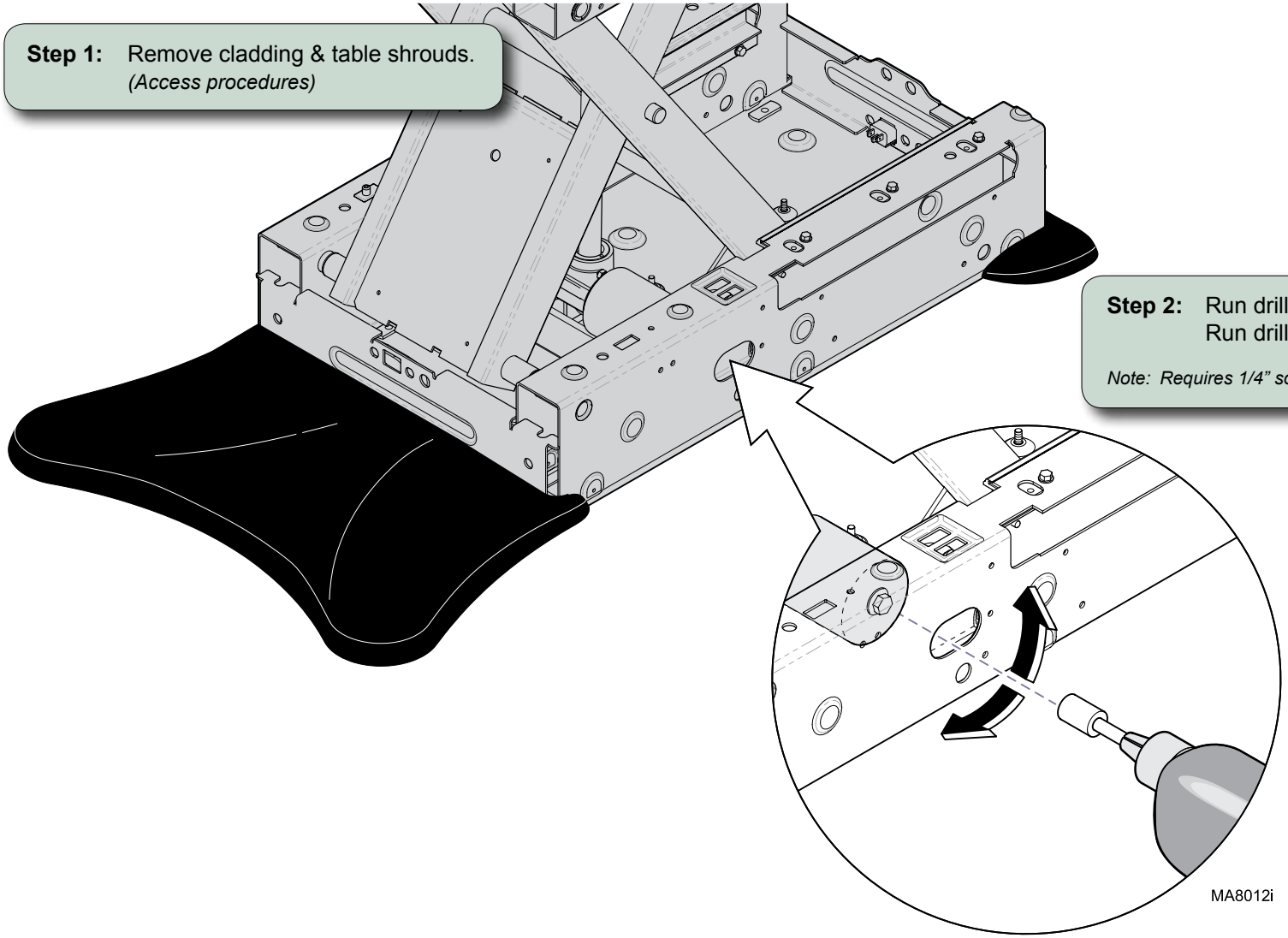
Manually Raising / Lowering Table

Cladding Removal / Installation C-2
Table Shrouds
Removal / Installation C-3

Step 1: Remove cladding & table shrouds.
(Access procedures)



Step 2: Run drill in reverse to raise table.
Run drill forward to lower table.

Note: Requires 1/4" socket w/ extension.

MA8012i

Models:	625	
Serial Numbers:	all	

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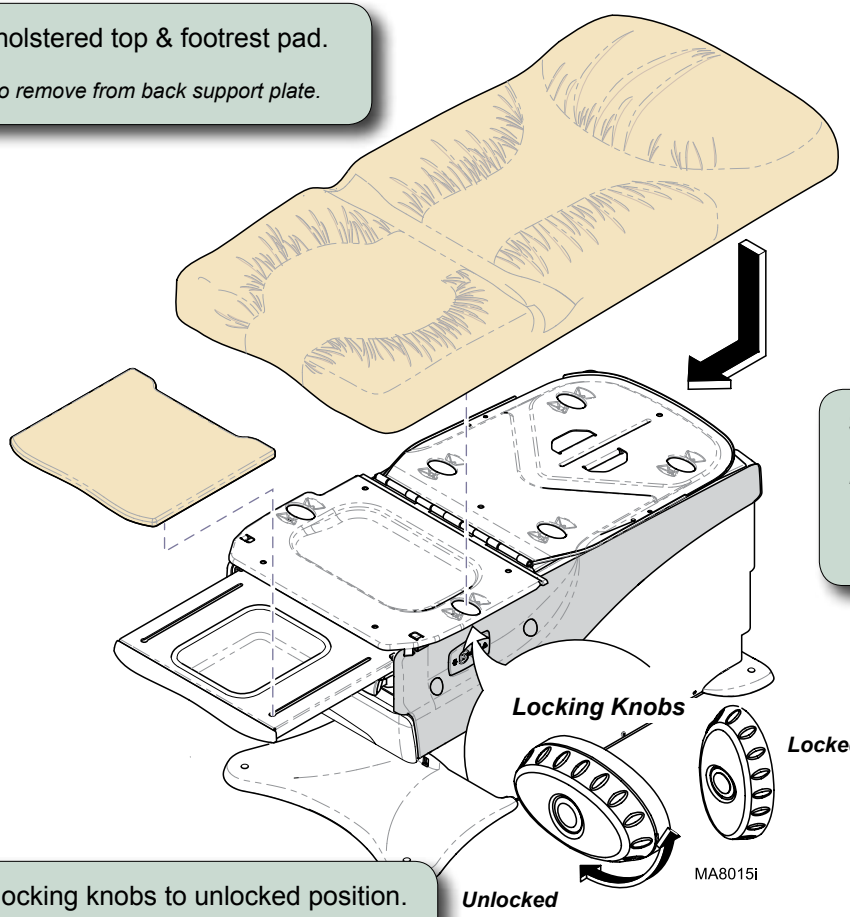
Always verify model & serial number

Upholstered Top

Removal / Installation

Step 2: Remove upholstered top & footrest pad.

Note: Slide upholstery up to remove from back support plate.



Step 3: Position upholstered top & footrest pad on table.

Note: Back support plate must slide under paper roll holder.

Be sure locking knobs align with holes in back / seat mounting plates.

Step 4: Rotate locking knobs to locked position..

Step 1: Rotate all locking knobs to unlocked position.

Note: There are four locking knobs under back section, and two locking knobs under seat section.

Models:	***625***	
Serial Numbers:	*all*	

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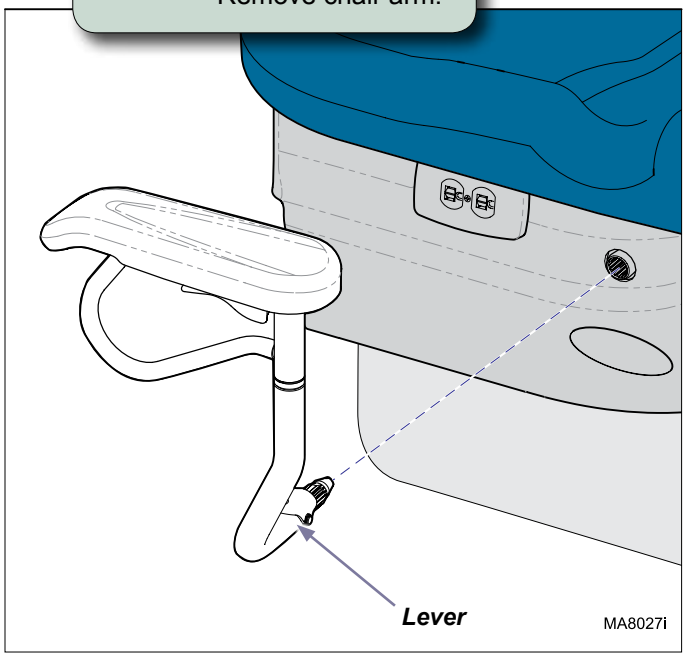
Always verify model & serial number

Chair Arms / Brace (optional)

Removal

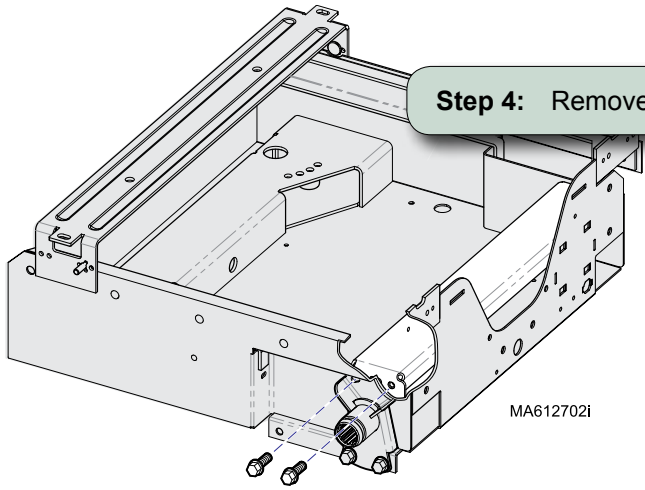
It may be necessary to remove the chair arm brace when performing certain procedures.

Step 1: Squeeze lever.
Remove chair arm.



Step 2: Remove cladding & table shrouds.

Step 4: Remove brace.



Step 3: Remove two screws.
Repeat on opposite side.

Models:	***625***	
Serial Numbers:	*all*	

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Always verify model & serial number

Top Cover (Back Limit Switch Access)

Removal / Installation

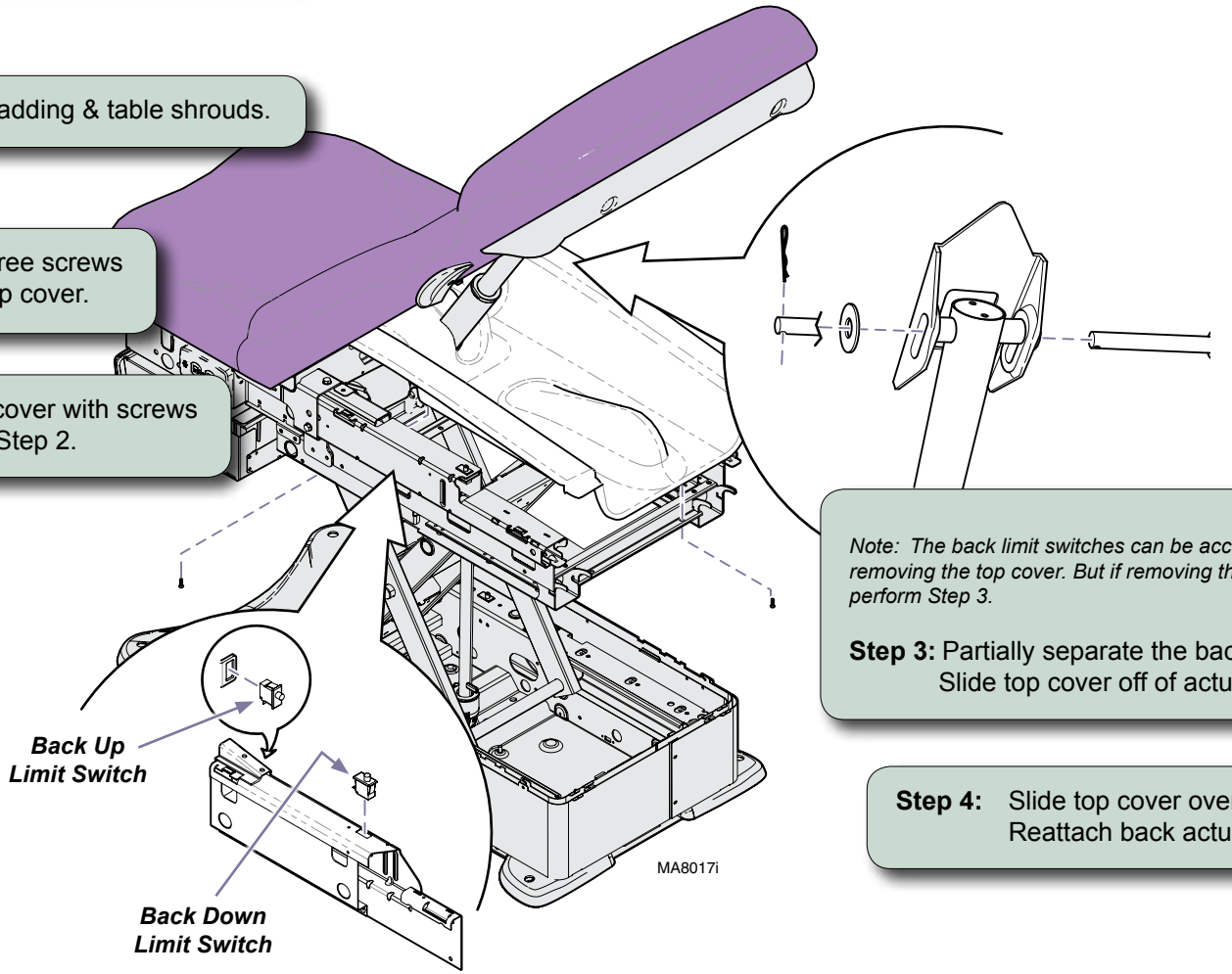
Cladding Removal / Installation C-2
Table Shrouds
Removal / Installation C-3

Step 1: Remove cladding & table shrouds.

Step 6: Reattach cladding & table shrouds.

Step 2: Remove three screws securing top cover.

Step 5: Secure top cover with screws removed in Step 2.



Note: The back limit switches can be accessed without completely removing the top cover. But if removing the cover is necessary, perform Step 3.

Step 3: Partially separate the back lift actuator as shown. Slide top cover off of actuator.

Step 4: Slide top cover over back actuator. Reattach back actuator.

Models:	***625***	
Serial Numbers:	*all*	

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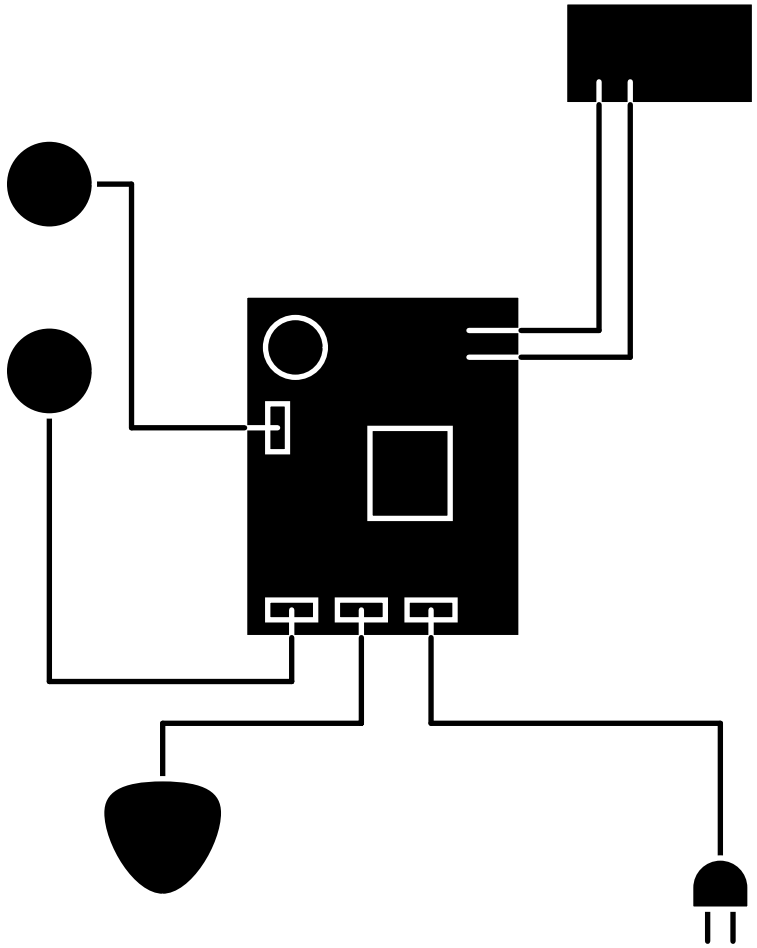
Always verify model & serial number

Section D

Wiring Diagrams



** Indicates multiple pages due to a serial number break for the wiring diagram.*

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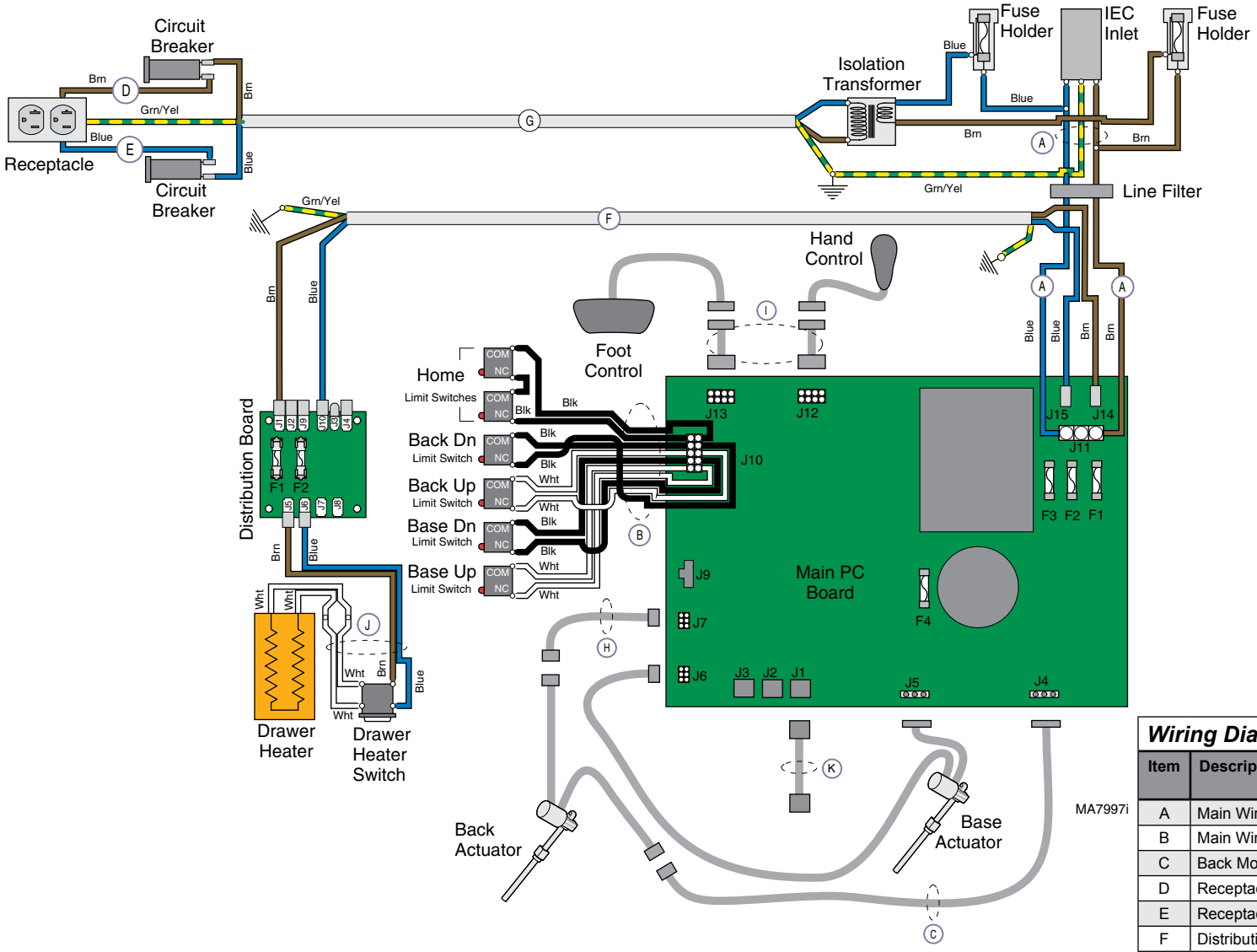

Wiring Diagram: 625 (-001)

Item	Description	Part Number
A	Main Wiring Harness	015-1854-00
B	Main Wiring Harness	015-1854-00
C	Back Motor Extension	015-2501-00
D	Receptacle Jumper *(brown)*	015-1886-00
E	Receptacle Jumper *(blue)*	015-1886-01
F	Distribution Harness	015-2005-00
G	Receptacle Harness	015-2531-00
H	Back Hall Effect Extension	015-2502-00
I	I/O Cable	015-1784-00
J	Drawer Heater Harness	015-2004-00
K	Used with wireless controls *(optional)*	015-2149-01

Models:	***625-001***	
Serial Numbers:	*V2200 thru V968527*	

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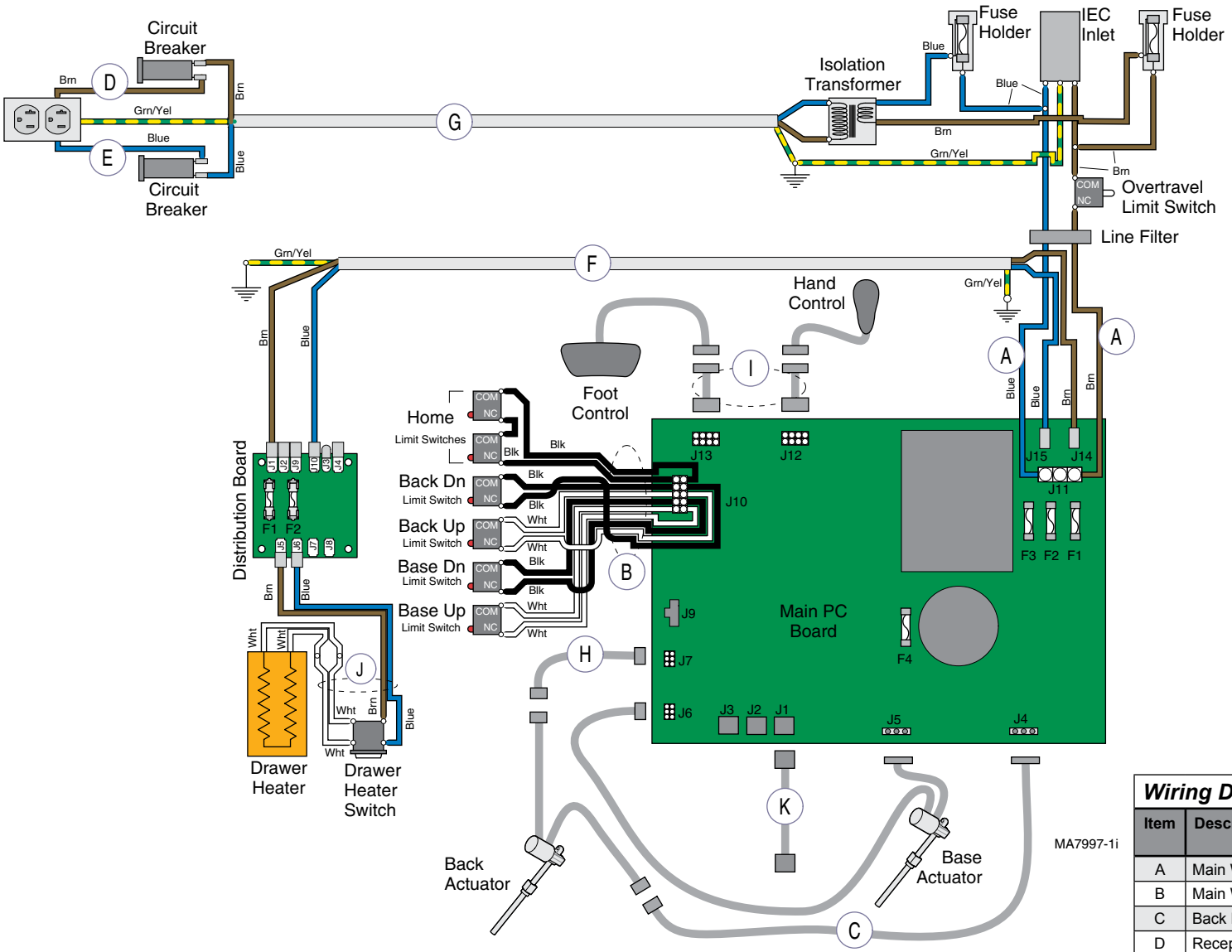
Always verify model & serial number



Wiring Diagram: 625 (-001)		
Item	**Description**	**Part Number**
A	Main Wiring Harness	015-2812-00
B	Main Wiring Harness	015-2812-00
C	Back Motor Extension	015-2501-00
D	Receptacle Jumper *(brown)*	015-1886-00
E	Receptacle Jumper *(blue)*	015-1886-01
F	Distribution Harness	015-2005-00
G	Receptacle Harness	015-2531-00
H	Back Hall Effect Extension	015-2502-00
I	I/O Cable	015-1784-00
J	Drawer Heater Harness	015-2004-00
K	Used with wireless controls *(optional)*	015-2149-01

Models:	**625-001**	
Serial Numbers:	*V968528 thru V1149713*	

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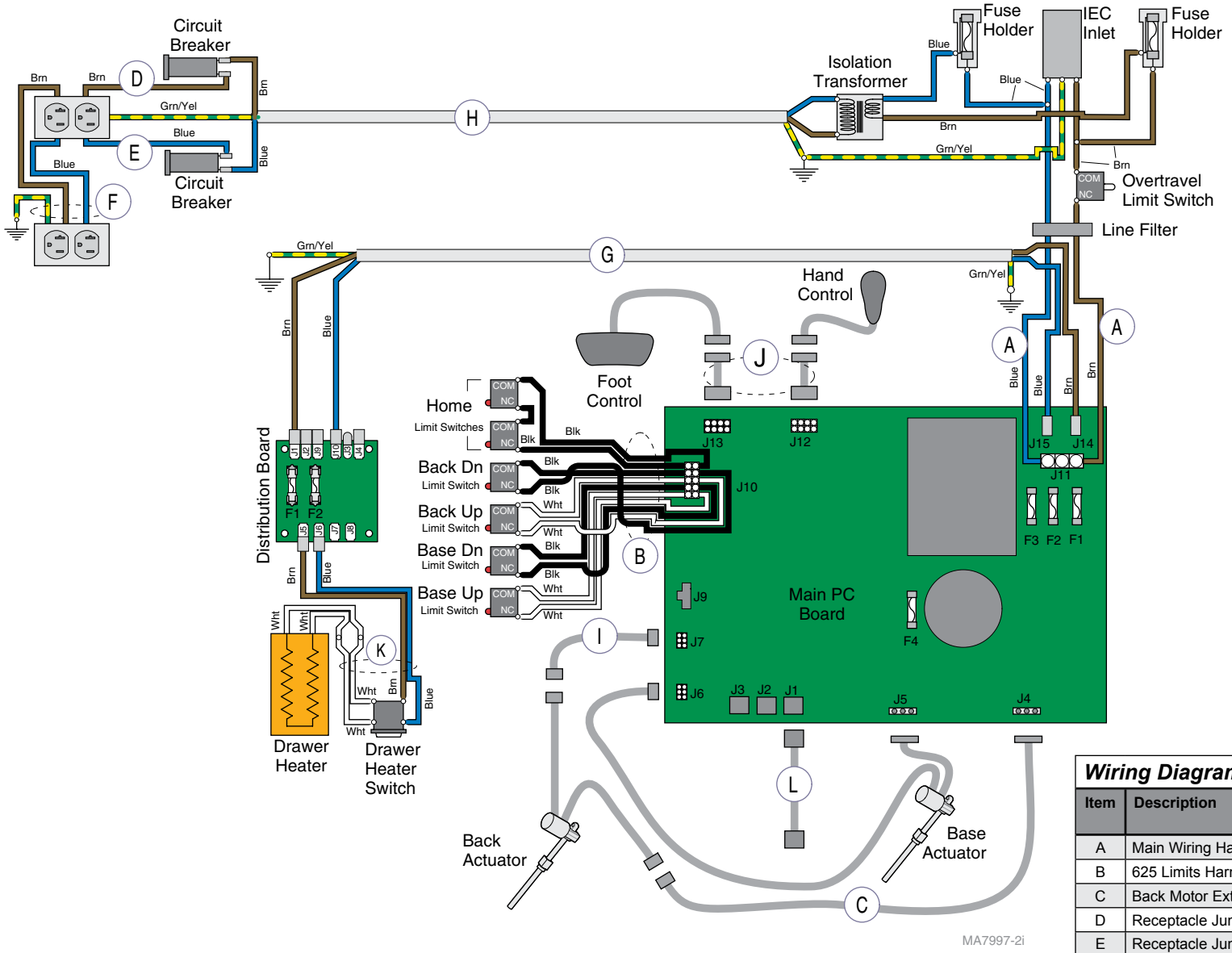
Always verify model & serial number



Wiring Diagram: 625 (-001)		
Item	**Description**	**Part Number**
A	Main Wiring Harness	015-2812-00
B	625 Limits Harness	029-5558-01
C	Back Motor Extension	029-5558-01
D	Receptacle Jumper *(brown)*	015-1886-00
E	Receptacle Jumper *(blue)*	015-1886-01
F	Receptacle Harness, Interconnect	015-2939-00
G	Distribution Harness	029-5558-01
H	Receptacle Harness	029-5558-01
I	Back Hall Effect Extension	029-5558-01
J	I/O Cable	015-1784-00
K	Drawer Heater Harness	015-2004-00
L	Used with wireless controls *(optional)*	029-5558-01

Models:	***625-001***	
Serial Numbers:	*V1149714 thru Present*	

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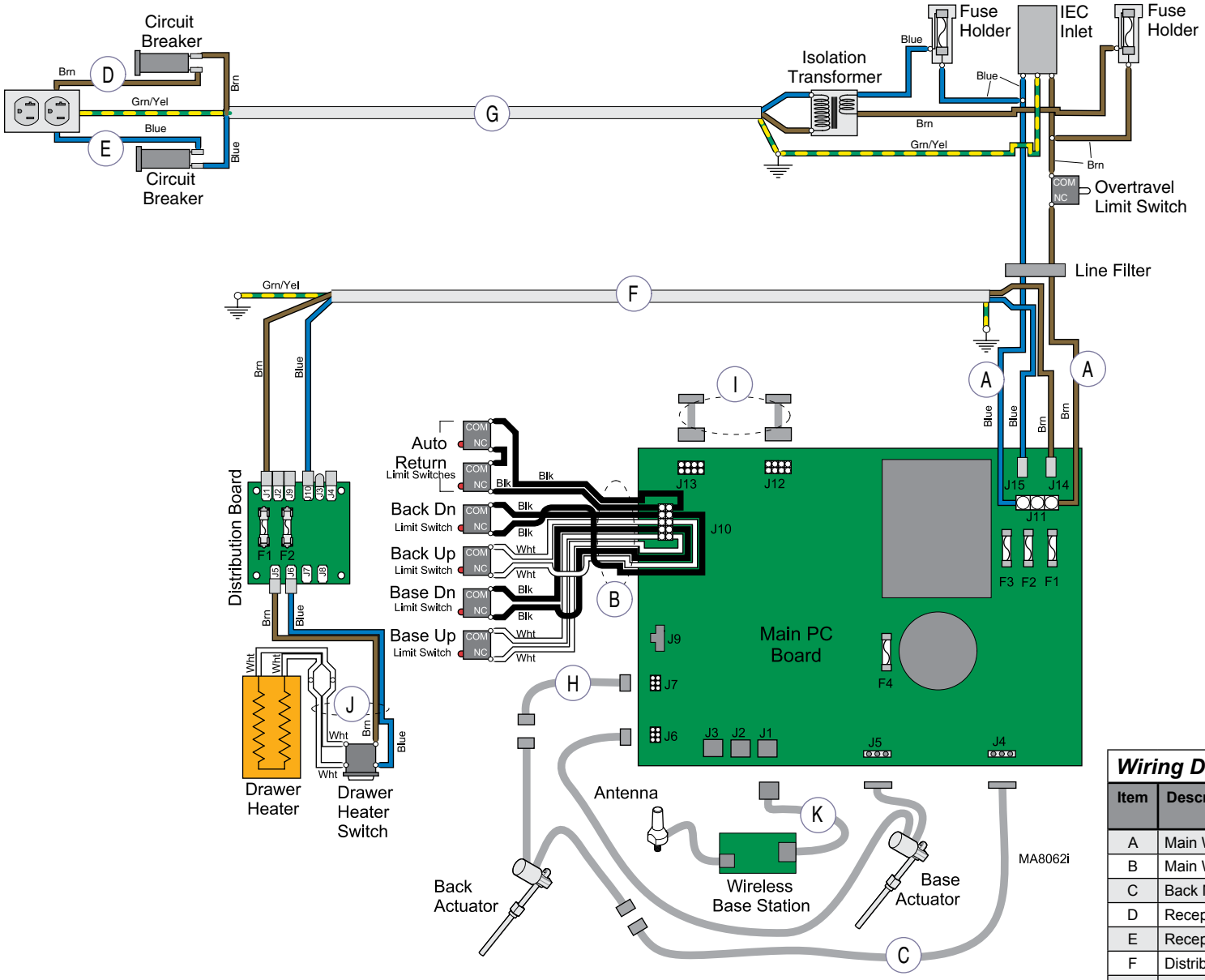
Always verify model & serial number



Models:	625-003	
Serial Numbers:	V2200 thru V1149713	

Wiring Diagram: 625 (-003)

Item	Description	Part Number
A	Main Wiring Harness	015-2812-00
B	Main Wiring Harness	015-2812-00
C	Back Motor Extension	015-2501-00
D	Receptacle Jumper *(brown)*	015-1886-00
E	Receptacle Jumper *(blue)*	015-1886-01
F	Distribution Harness	015-2005-00
G	Receptacle Harness	015-2531-00
H	Back Hall Effect Extension	015-2502-00
I	I/O Cable	015-1784-00
J	Drawer Heater Harness	015-2004-00
K	Modular Harness *(straight)*	015-2149-01

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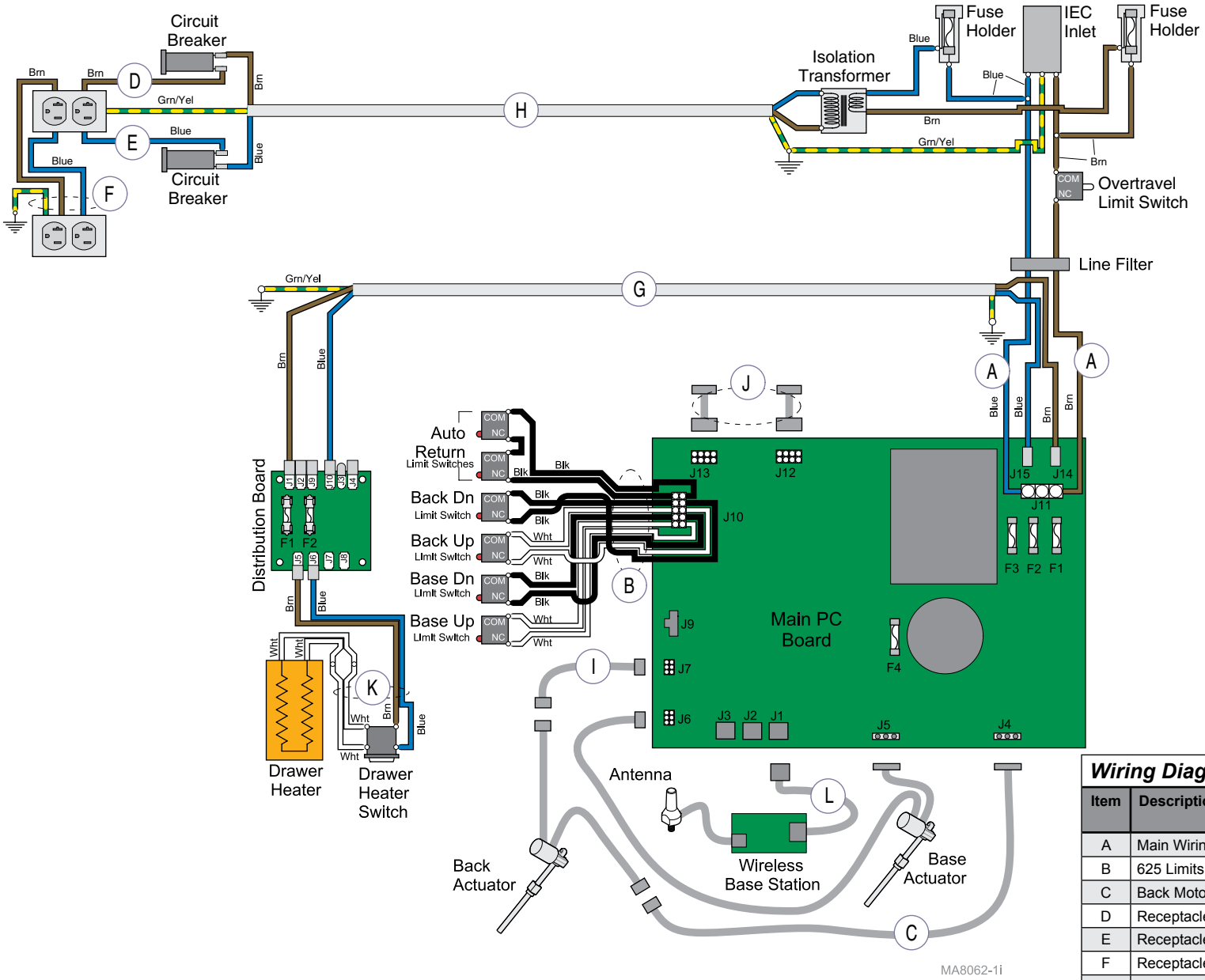
Always verify model & serial number



Wiring Diagram: 625 (-003)		
Item	**Description**	**Part Number**
A	Main Wiring Harness	015-2812-00
B	625 Limits Harness	029-5558-01
C	Back Motor Extension	029-5558-01
D	Receptacle Jumper *(brown)*	015-1886-00
E	Receptacle Jumper *(blue)*	015-1886-01
F	Receptacle Harness, Interconnect	015-2939-00
G	Distribution Harness	029-5558-01
H	Receptacle Harness	029-5558-01
I	Back Hall Effect Extension	029-5558-01
J	I/O Cable	015-1784-00
K	Drawer Heater Harness	015-2004-00
L	Modular Harness *(straight)*	029-5558-01

Models:	***625-003***
Serial Numbers:	*V1149714 thru Present*

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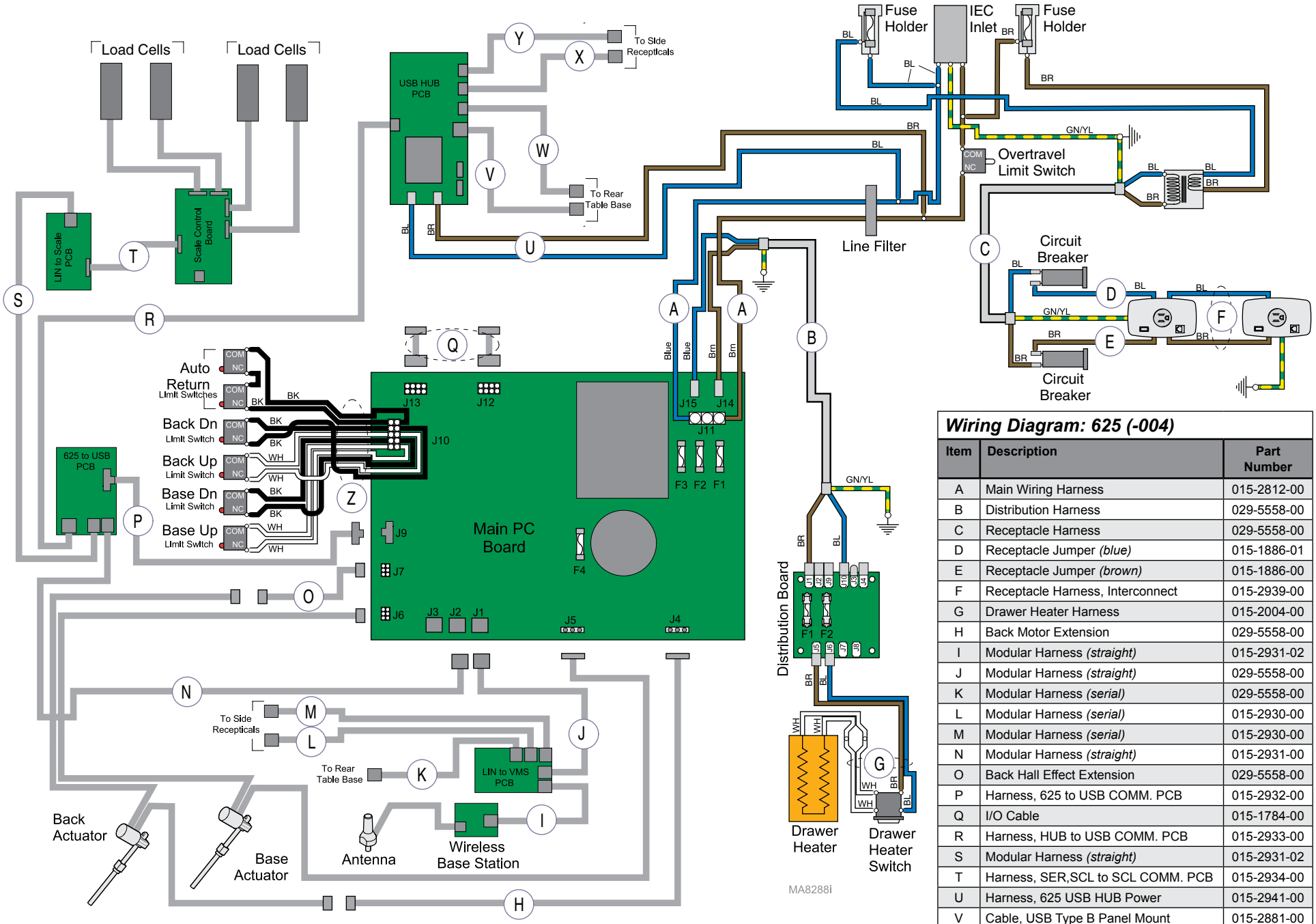
Always verify model & serial number



Wiring Diagram: 625 (-004)

Item	Description	Part Number
A	Main Wiring Harness	015-2812-00
B	Distribution Harness	029-5558-00
C	Receptacle Harness	029-5558-00
D	Receptacle Jumper *(blue)*	015-1886-01
E	Receptacle Jumper *(brown)*	015-1886-00
F	Receptacle Harness, Interconnect	015-2939-00
G	Drawer Heater Harness	015-2004-00
H	Back Motor Extension	029-5558-00
I	Modular Harness *(straight)*	015-2931-02
J	Modular Harness *(straight)*	029-5558-00
K	Modular Harness *(serial)*	029-5558-00
L	Modular Harness *(serial)*	015-2930-00
M	Modular Harness *(serial)*	015-2930-00
N	Modular Harness *(straight)*	015-2931-00
O	Back Hall Effect Extension	029-5558-00
P	Harness, 625 to USB COMM. PCB	015-2932-00
Q	I/O Cable	015-1784-00
R	Harness, HUB to USB COMM. PCB	015-2933-00
S	Modular Harness *(straight)*	015-2931-02
T	Harness, SER,SCL to SCL COMM. PCB	015-2934-00
U	Harness, 625 USB HUB Power	015-2941-00
V	Cable, USB Type B Panel Mount	015-2881-00
W	Cable, USB Type A Panel Mount	015-2458-00
X	Cable, USB Type A Panel Mount	029-5558-00
Y	Cable, USB Type A Panel Mount	029-5558-00
Z	Distribution Harness	029-5558-00

Models:	**625-004**
Serial Numbers:	*all*

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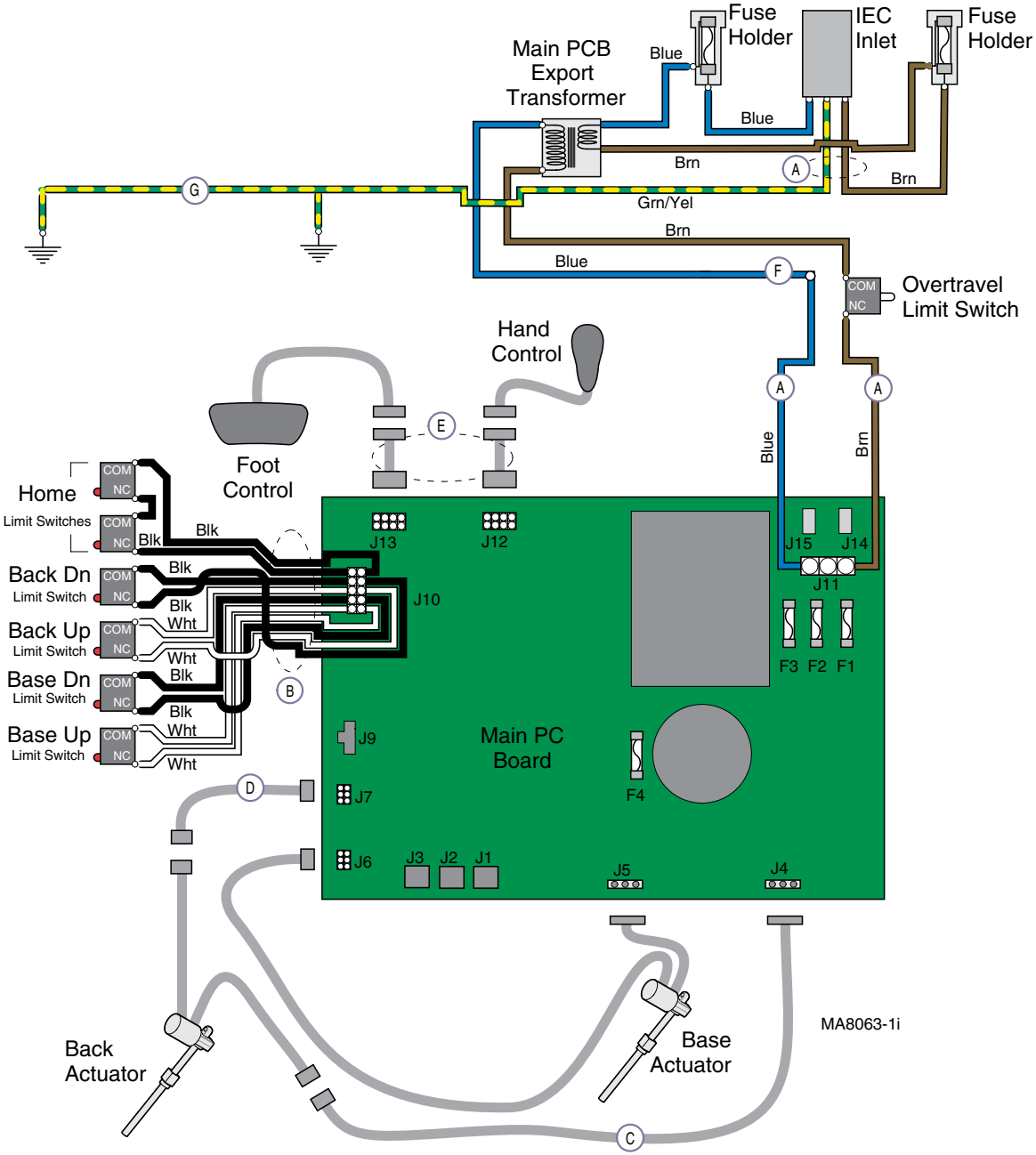
Always verify model & serial number



Models:	625-005	
Serial Numbers:	all	

Wiring Diagram: 625 (-005)

Item	Description	Part Number
A	Main Wiring Harness	015-2812-00
B	Main Wiring Harness	015-2812-00
C	Back Motor Extension	015-2501-00
D	Back Hall Effect Extension	015-2502-00
E	I/O Cable	015-1784-00
F	Power Interrupt Harness	015-2813-00
G	Ground Harness	015-2570-00

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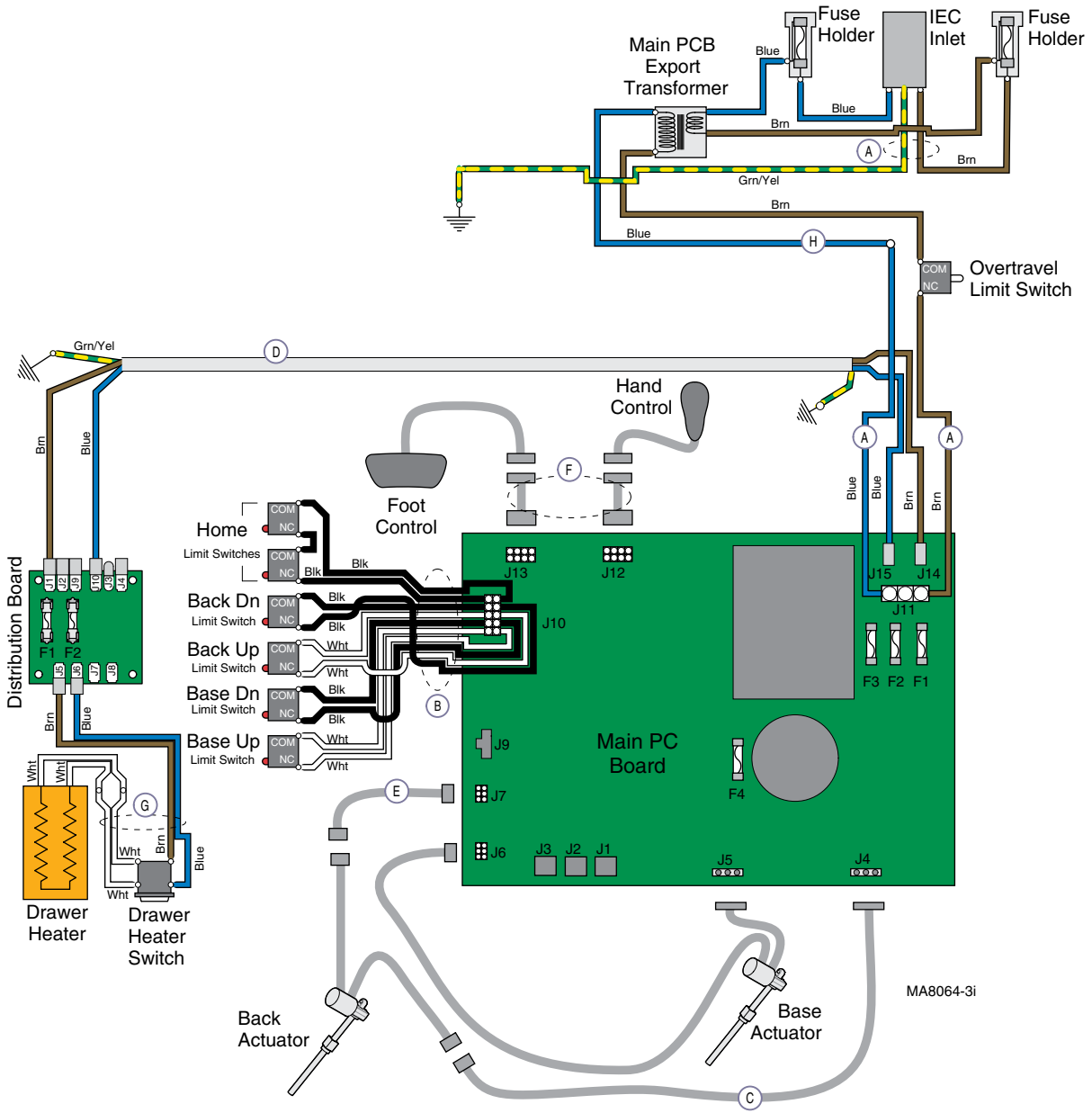

Models:	625-006	
Serial Numbers:	all	

Wiring Diagram: 625 (-006)

Item	Description	Part Number
A	Main Wiring Harness	015-2812-00
B	Main Wiring Harness	015-2812-00
C	Back Motor Extension	015-2501-00
D	Distribution Harness	015-2005-00
E	Back Hall Effect Extension	015-2502-00
F	I/O Cable	015-1784-00
G	Drawer Heater Harness	015-2004-00
H	Power Interrupt Harness	015-2813-00

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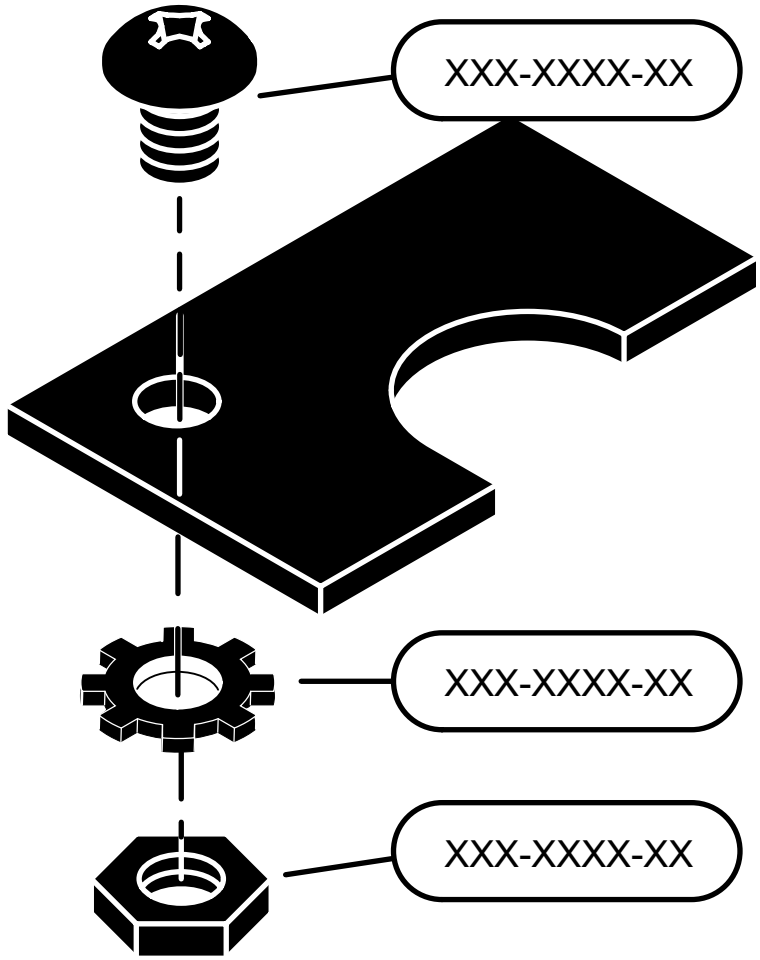
Section E

Exploded Views & Parts Lists



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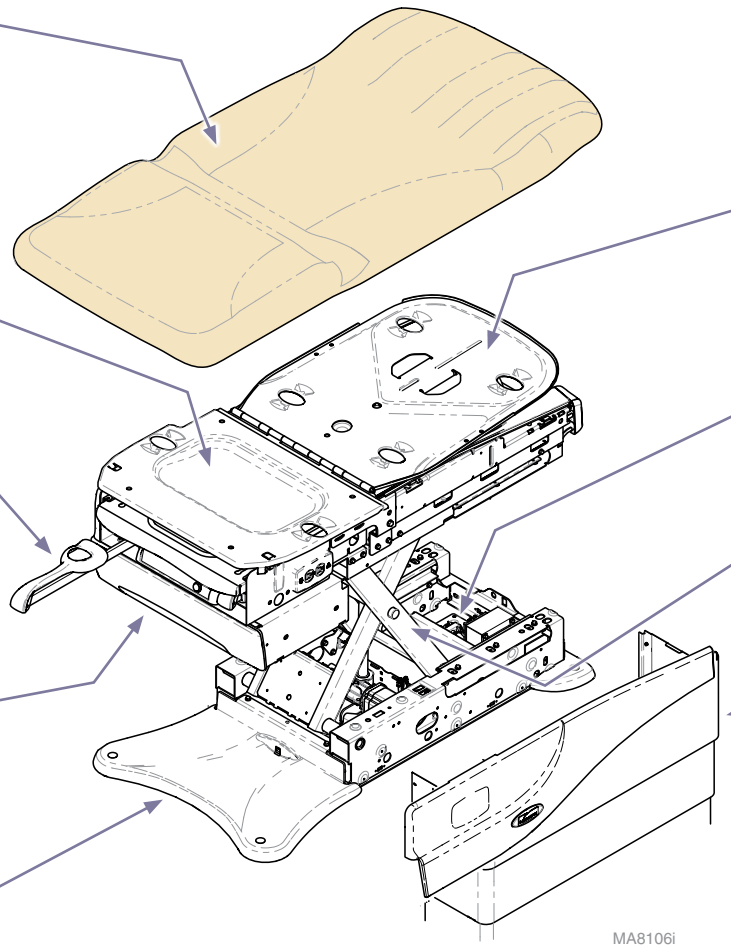

Models:	625	
Serial Numbers:	all	

*** Indicates multiple pages due to a serial number break for the parts illustration.***

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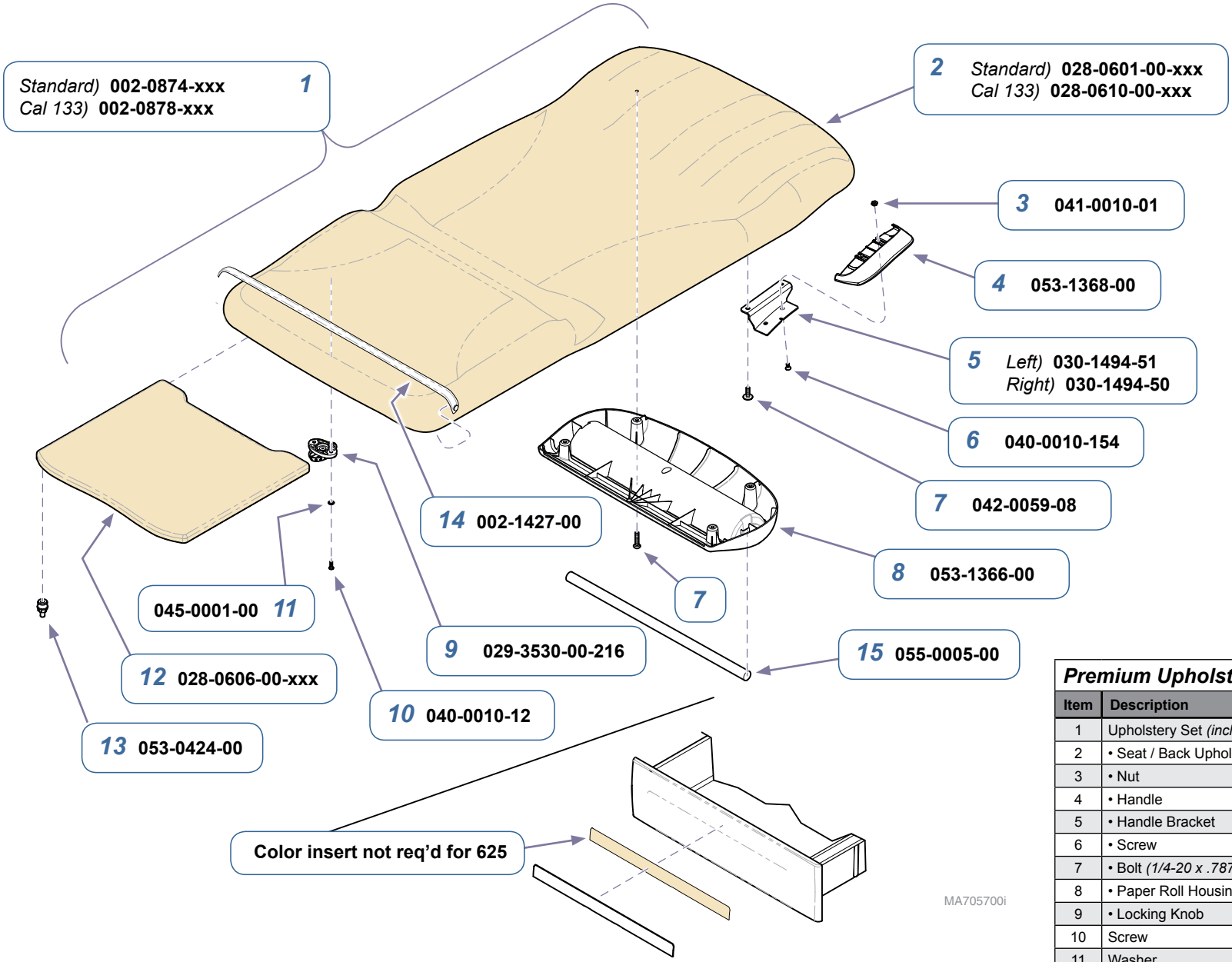

Premium Upholstery: 28 Inch Wide		
Item	**Description**	**Qty.**
1	Upholstery Set *(includes items 2 thru 13)*	1
2	• Seat / Back Upholstery	1
3	• Nut	4
4	• Handle	2
5	• Handle Bracket	2
6	• Screw	4
7	• Bolt *(1/4-20 x .787")*	8
8	• Paper Roll Housing	1
9	• Locking Knob	6
10	Screw	12
11	Washer	12
12	• Footrest Pad *(includes item 13 - qty 4)*	1
13	• • Footrest Glide	4
14	Tear Strap	1
15	Paper Roll Rod	1

Models:	**625**	
Serial Numbers:	*all*	

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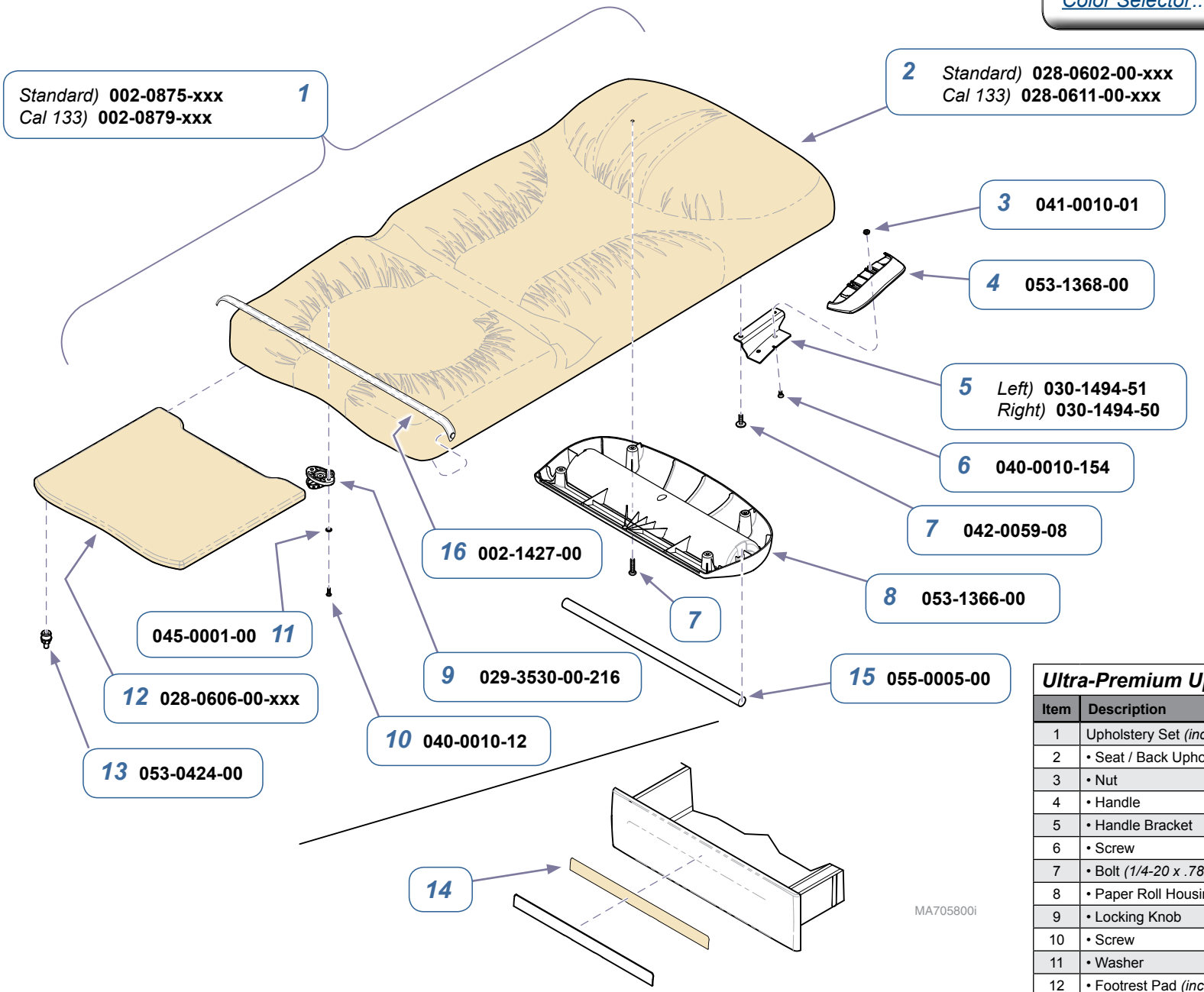

Ultra-Premium Upholstery: 28 Inch Wide		
Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 14)*	1
2	• Seat / Back Upholstery	1
3	• Nut	4
4	• Handle	2
5	• Handle Bracket	2
6	• Screw	4
7	• Bolt *(1/4-20 x .787")*	8
8	• Paper Roll Housing	1
9	• Locking Knob	6
10	• Screw	12
11	• Washer	12
12	• Footrest Pad *(includes item 13 - qty 4)*	1
13	• • Footrest Glide	4
14	• Vinyl Drawer Insert *(not used on 625)*	6
15	Paper Roll Rod	1
16	Tear Strap	1

Models:	625	
Serial Numbers:	all	

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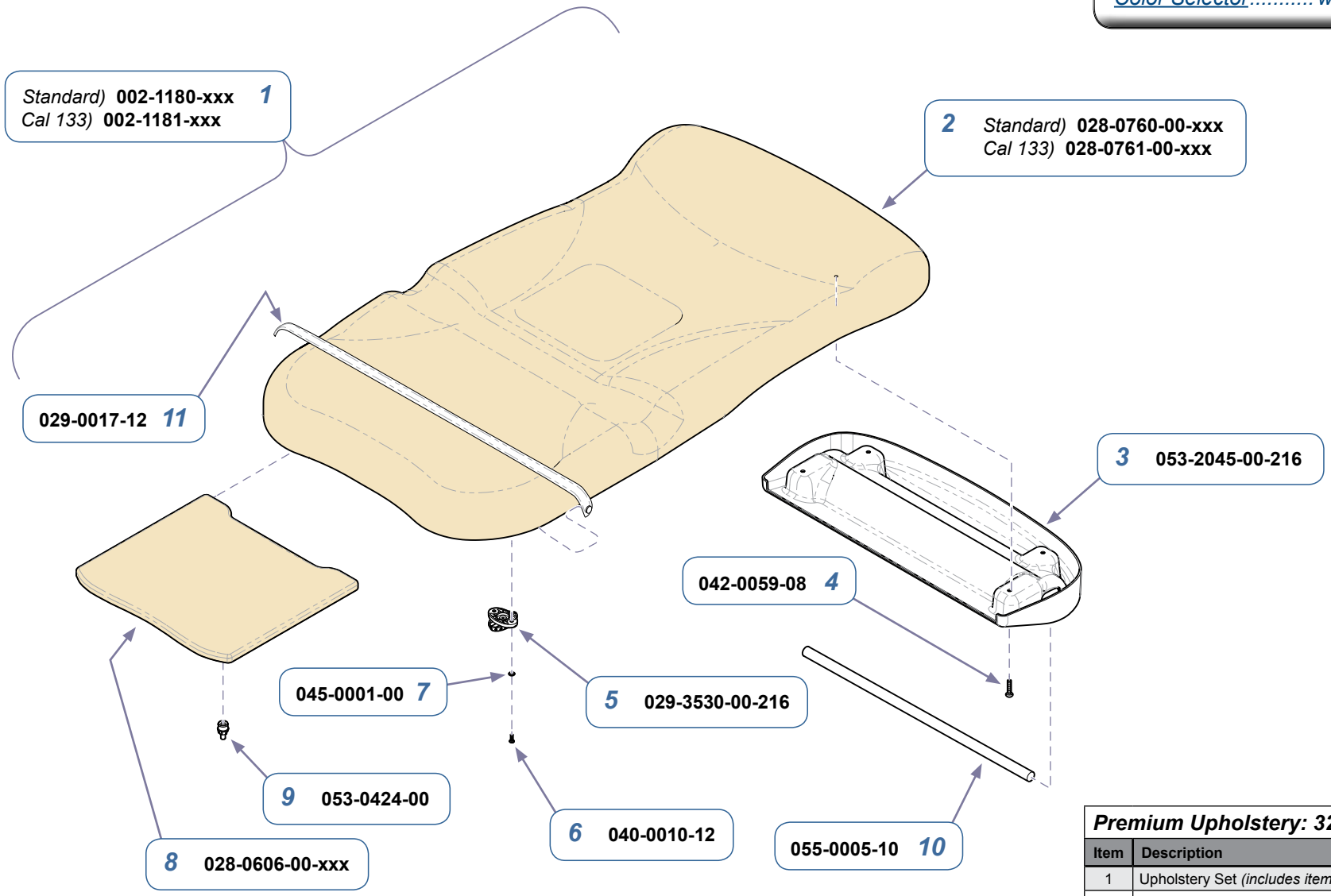

Premium Upholstery: 32 Inch Wide		
Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 10)*	1
2	• Seat / Back Upholstery	1
3	• Paper Roll Housing	1
4	• Screw	4
5	• Locking Knob	6
6	• Screw	12
7	• Washer	12
8	• Footrest Pad *(includes item 9 - qty 4)*	1
9	• • Footrest Glide	4
10	• Paper Roll Rod	1
11	Tear Strap	2

Models:	625	
Serial Numbers:	all	

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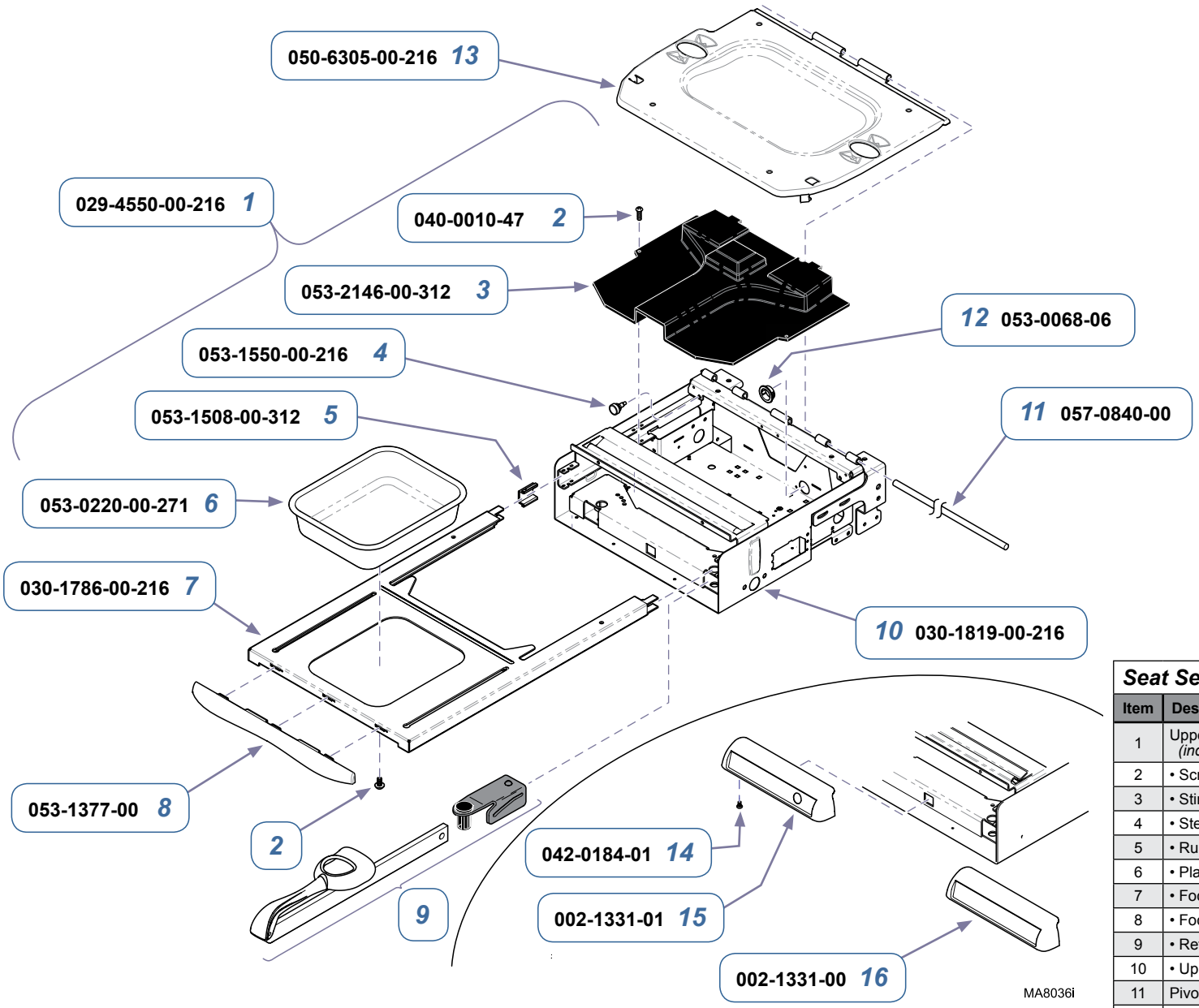

Seat Section

Item	Description	Qty.
1	Upperwrap Assembly *(includes items 2 thru 10)*	1
2	• Screw *(#10-24 x 3/8")*	6
3	• Stirrup Guide	1
4	• Stem Bumper	4
5	• Runner Glide	4
6	• Plastic Treatment Pan	1
7	• Footrest Shelf	1
8	• Footrest Trim	1
9	• Refer to: *"Stirrup Assembly"*	2
10	• Upperwrap Weldment	1
11	Pivot Rod	1
12	Snap Bushing	3
13	Seat Mtg. Frame	1
14	Screw	2
15	Switch Housing and Label Kit *(with one switch hole [includes label])*	1
16	Switch Housing and Label Kit *(no holes [includes label])*	1

Models:	***625***	
Serial Numbers:	*all*	

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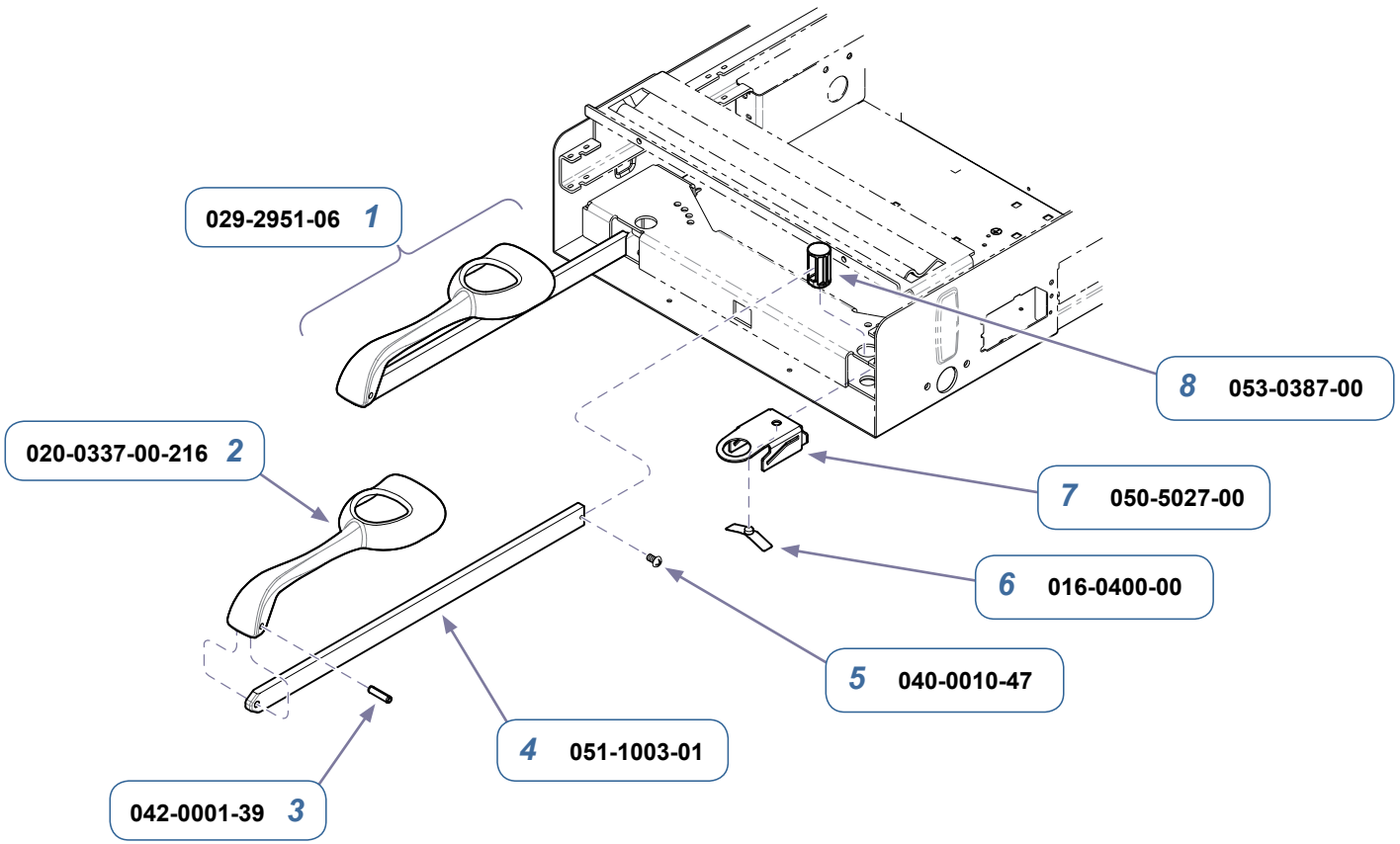

MA703900I

Stirrups

Item	Description	Qty.
1	Stirrup Assembly *(includes items 2 thru 4)*	2
2	• Stirrup	1
3	• Roll Pin	1
4	• Stirrup Bar	1
5	Screw *(10-24 x 3/8")*	2
6	Guide Bracket Spring	2
7	Guide Bracket	2
8	Pivot Boss	2

Models:	**625**	
Serial Numbers:	*all*	

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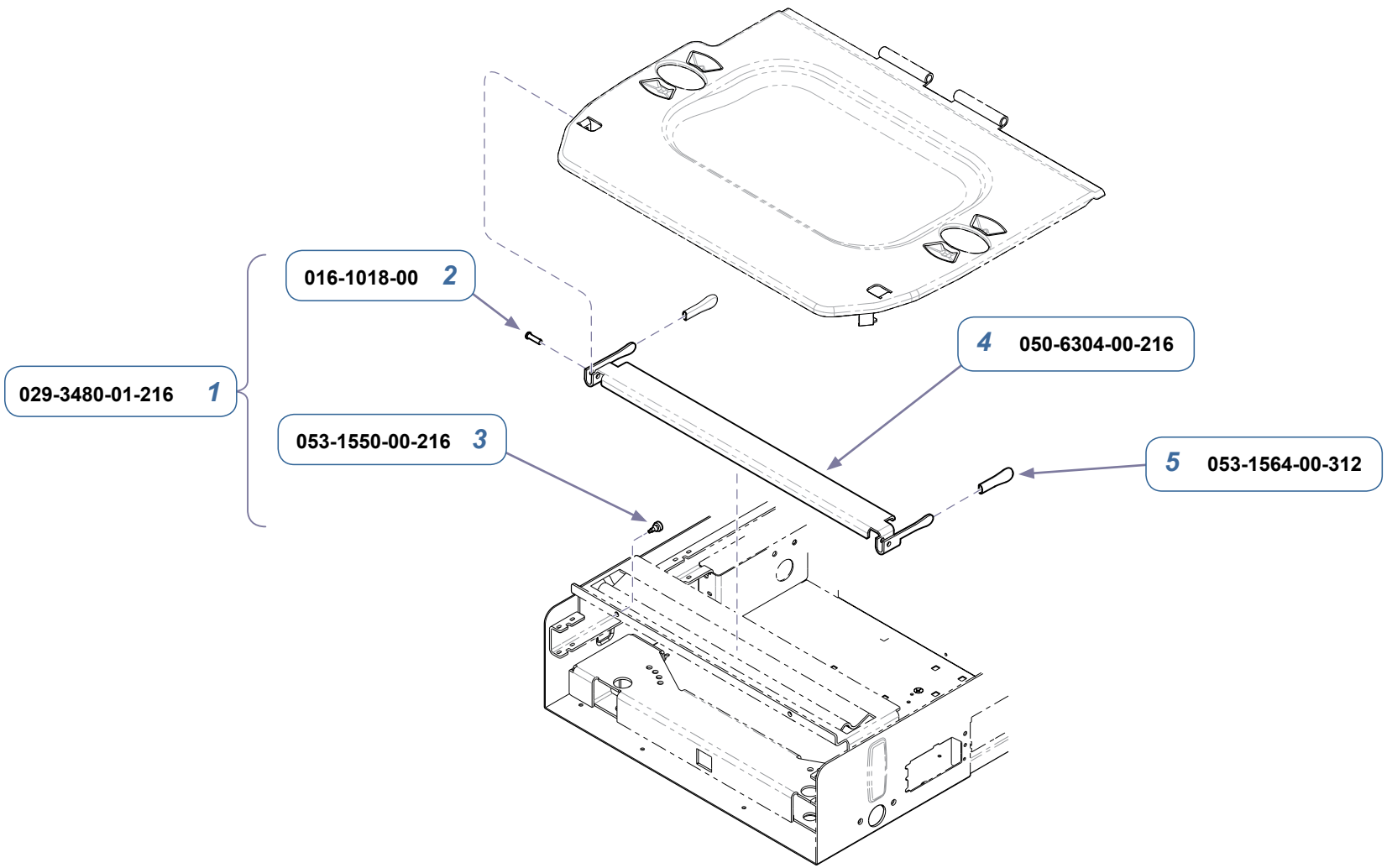

MA716200i

Pelvic Tilt		
Item	**Description**	**Qty.**
1	Pelvic Tilt Assembly *(includes items 2 thru 5)*	1
2	• Pivot Pin	2
3	• Bumper	2
4	• Bracket	1
5	• Handle	2

Models:	***625***	
Serial Numbers:	*all*	

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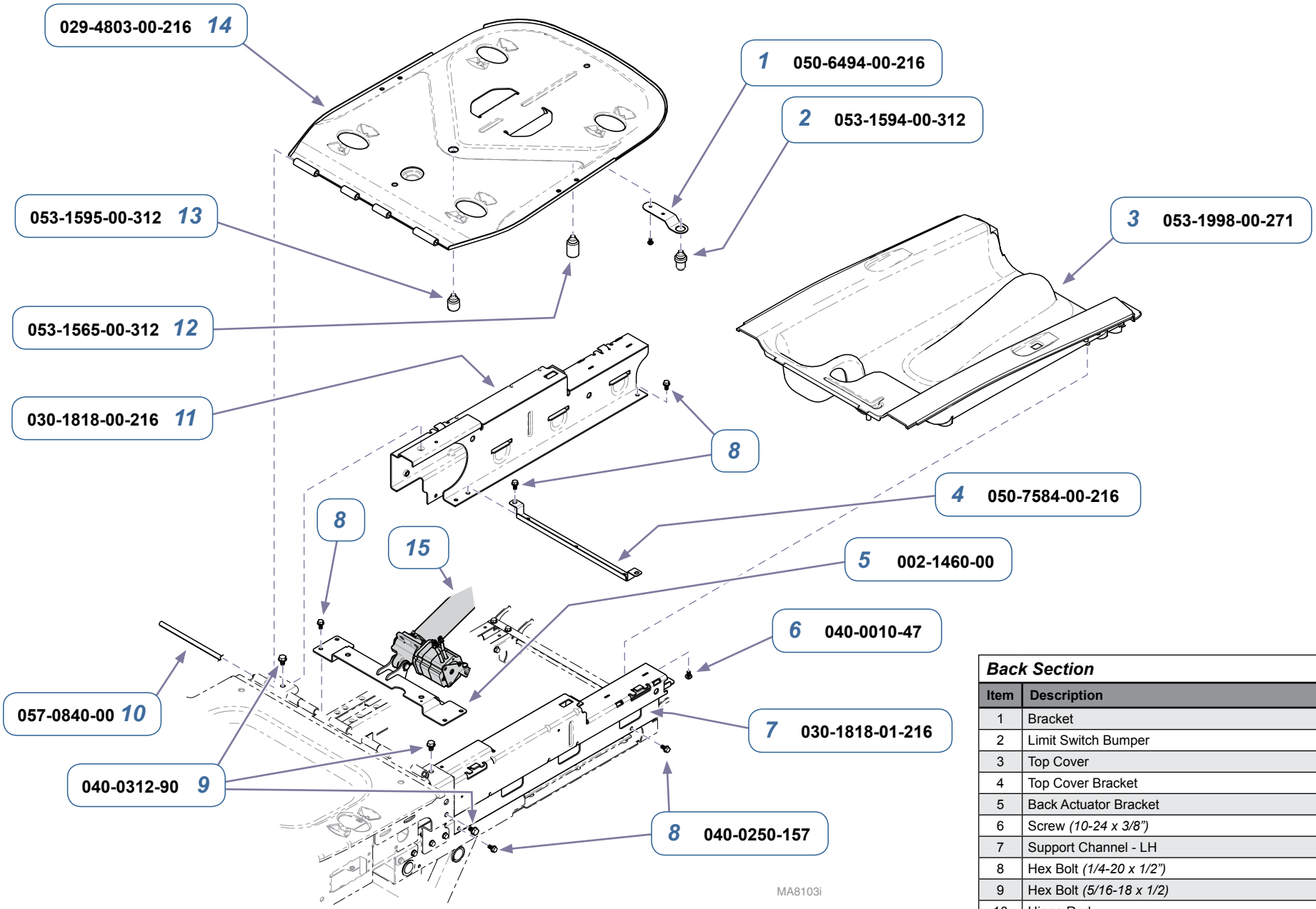

Back Section

Item	Description	Qty.
1	Bracket	1
2	Limit Switch Bumper	1
3	Top Cover	1
4	Top Cover Bracket	1
5	Back Actuator Bracket	1
6	Screw *(10-24 x 3/8")*	2
7	Support Channel - LH	1
8	Hex Bolt *(1/4-20 x 1/2")*	14
9	Hex Bolt *(5/16-18 x 1/2)*	4
10	Hinge Rod	1
11	Support Channel - RH	1
12	Bumper	2
13	Bumper	1
14	Back Weldment	1
15	Refer to: *"Back Actuator / Limit Switches"*	Ref

Models:	**625**	
Serial Numbers:	*V2200 thru V1083261*	

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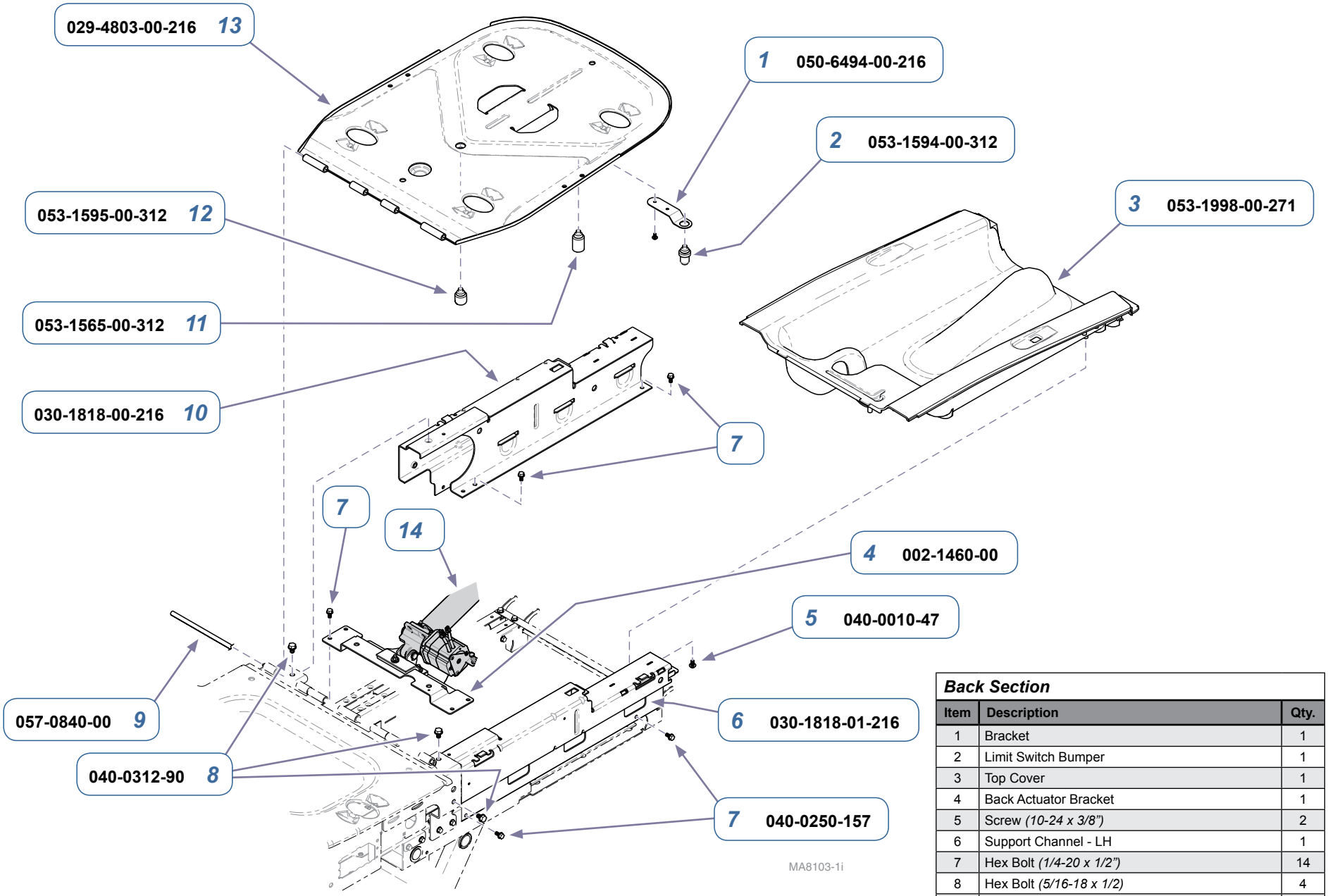

Back Section

Item	Description	Qty.
1	Bracket	1
2	Limit Switch Bumper	1
3	Top Cover	1
4	Back Actuator Bracket	1
5	Screw *(10-24 x 3/8")*	2
6	Support Channel - LH	1
7	Hex Bolt *(1/4-20 x 1/2")*	14
8	Hex Bolt *(5/16-18 x 1/2)*	4
9	Hinge Rod	1
10	Support Channel - RH	1
11	Bumper	2
12	Bumper	1
13	Back Weldment	1
14	Refer to: *"Back Actuator / Limit Switches"*	Ref

Models:	***625***	
Serial Numbers:	*V1083262 thru Present*	

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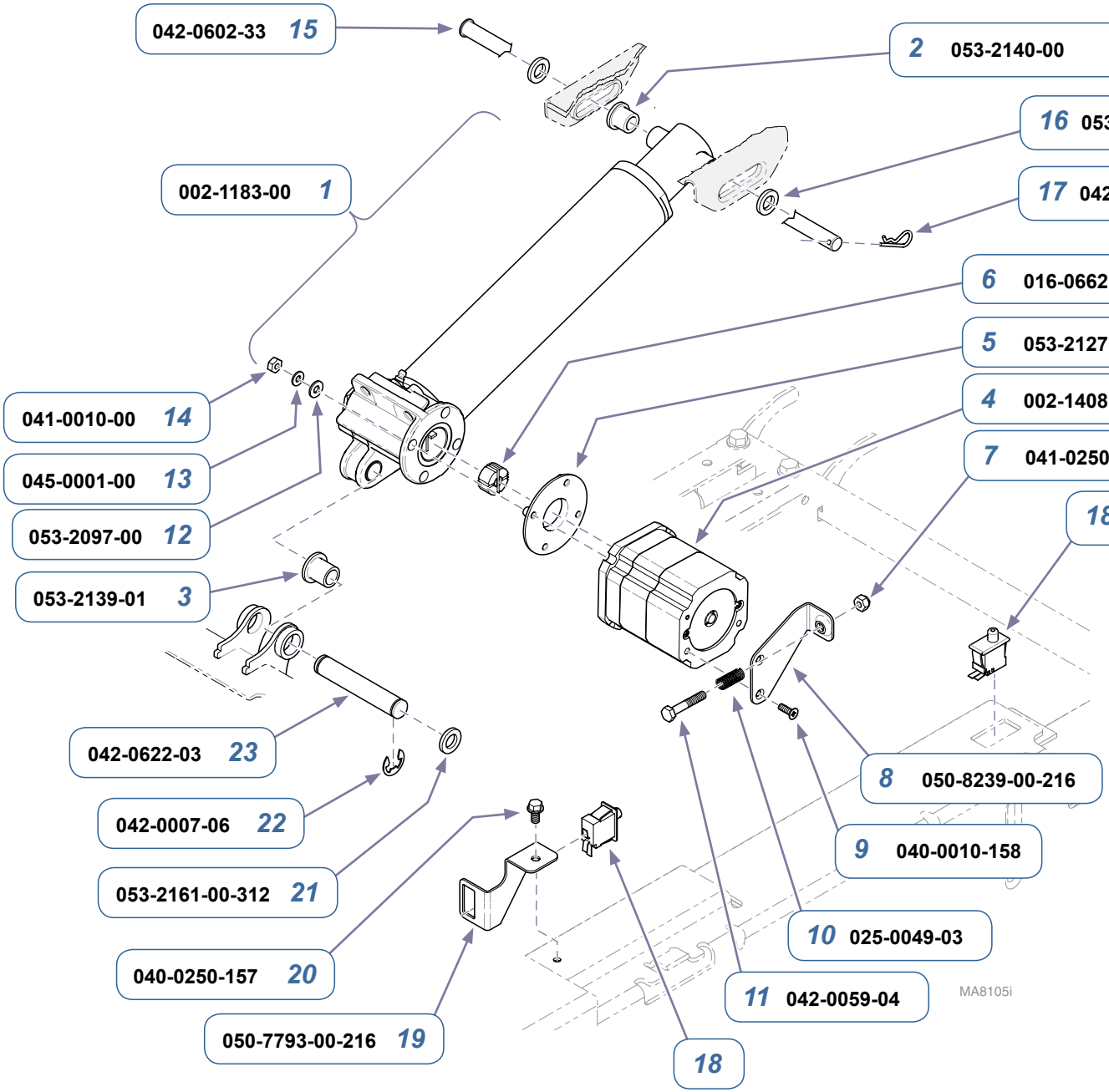

Back Actuator / Limit Switches

Item	Description	Qty.
1	Back Actuator Assembly *(incl. items 2 thru 4)*	1
2	• Bushing	2
3	• Bushing	2
4	• Motor Only *(includes items 5 thru 14)*	1
5	• • Motor Isolator	1
6	• • Motor Coupler	1
7	• • Nut	1
8	• • Bracket	1
9	• • Screw *(#10 x 32 x 1/4")*	2
10	• • Spring	1
11	• • Hex Screw *(1/4-20 x 1 1/2")*	1
12	• • Isolation Washer	2
13	• • Washer	2
14	• • Nut	2
15	Clevis Pin	1
16	Nylon Washer	2
17	Cotter Pin	1
18	Limit Switch	2
19	Bracket	1
20	Hex Screw	1
21	Rubber Washer	2
22	E-ring	2
23	Clevis Pin	1

Models:	**625**
Serial Numbers:	*V2200 thru V1083261*

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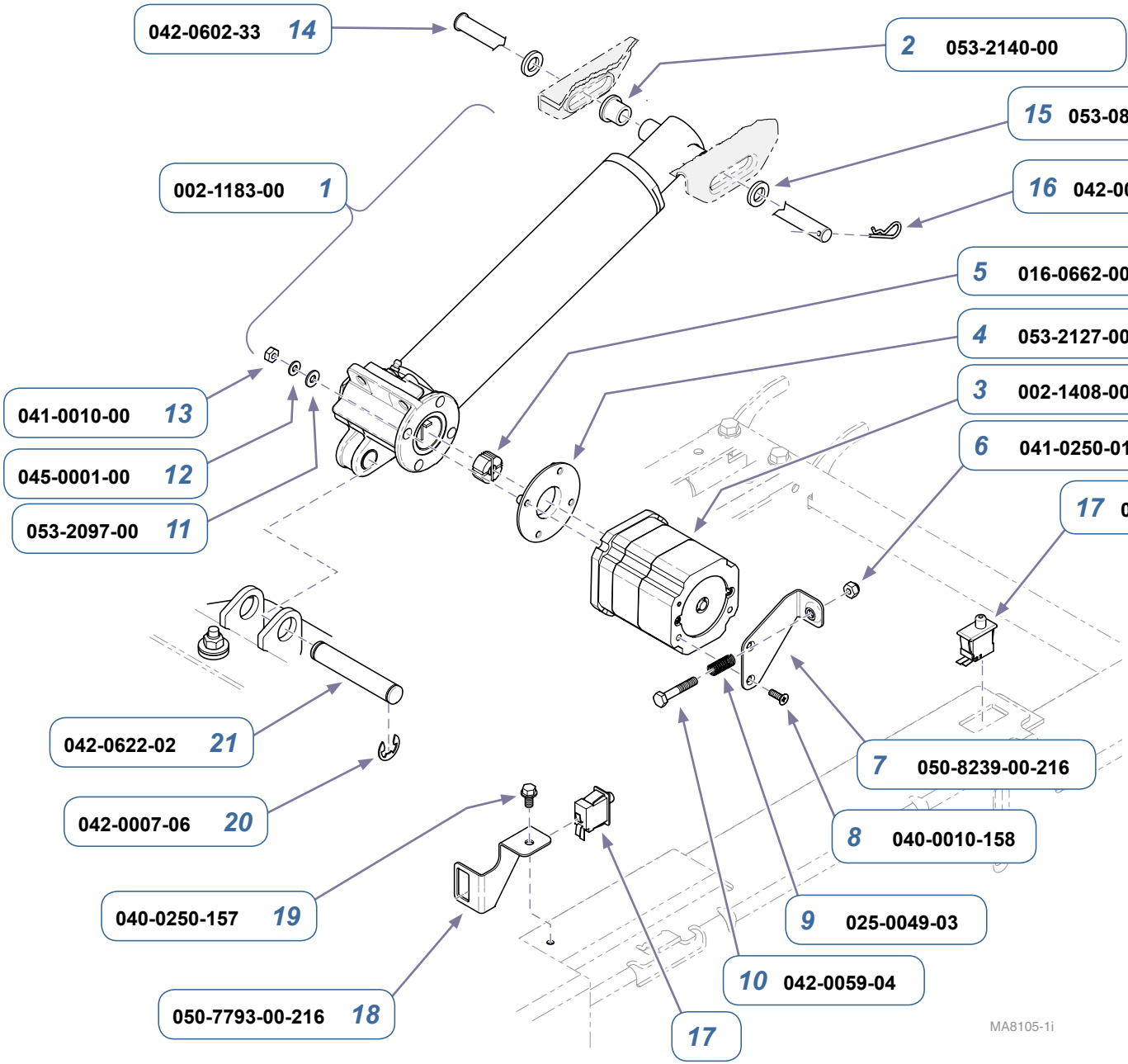

Back Actuator / Limit Switches		
Item	**Description**	**Qty.**
1	Back Actuator Assembly *(incl. items 2 & 3)*	1
2	• Bushing	2
3	• Motor Only *(includes items 4 thru 13)*	1
4	• • Motor Isolator	1
5	• • Motor Coupler	1
6	• • Nut	1
7	• • Bracket	1
8	• • Screw *(#10 x 32 x 1/4")*	2
9	• • Spring	1
10	• • Hex Screw *(1/4-20 x 1 1/2")*	1
11	• • Isolation Washer	2
12	• • Washer	2
13	• • Nut	2
14	Clevis Pin	1
15	Nylon Washer	2
16	Cotter Pin	1
17	Limit Switch	2
18	Bracket	1
19	Hex Screw	1
20	E-ring	2
21	Clevis Pin	1

Models:	***625***	
Serial Numbers:	*V1083262 thru Present*	

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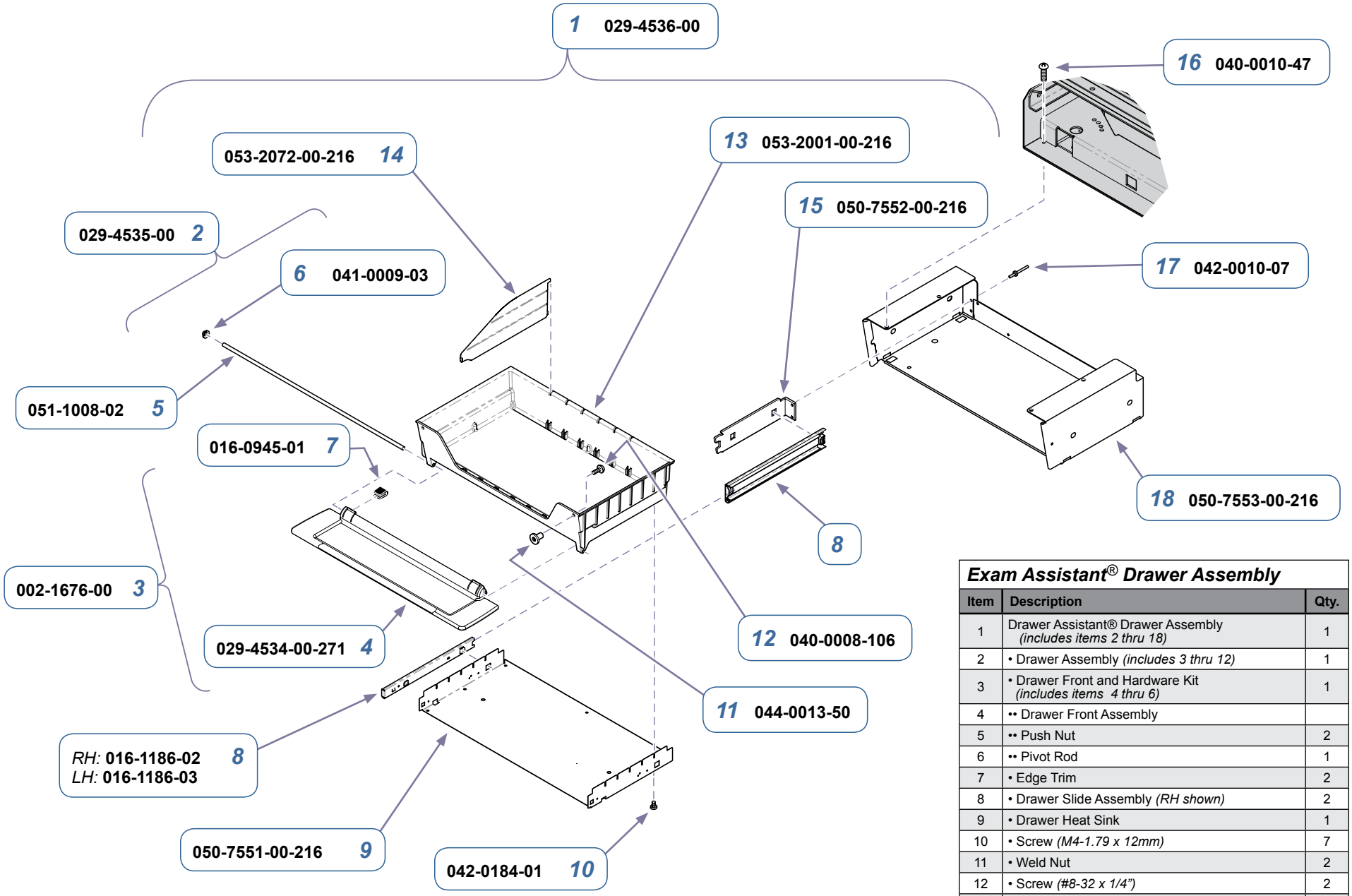

Exam Assistant® Drawer Assembly

Item	Description	Qty.
1	Drawer Assistant® Drawer Assembly *(includes items 2 thru 18)*	1
2	• Drawer Assembly *(includes 3 thru 12)*	1
3	• Drawer Front and Hardware Kit *(includes items 4 thru 6)*	1
4	•• Drawer Front Assembly	
5	•• Push Nut	2
6	•• Pivot Rod	1
7	• Edge Trim	2
8	• Drawer Slide Assembly *(RH shown)*	2
9	• Drawer Heat Sink	1
10	• Screw *(M4-1.79 x 12mm)*	7
11	• Weld Nut	2
12	• Screw *(#8-32 x 1/4")*	2
13	• Drawer	1
14	Drawer Divider	2
15	Side Bracket	2
16	Screw	4
17	Pop Rivet	4
18	Drawer Housing	1

Models:	**625**	
Serial Numbers:	*V2200 thru V1307858*	

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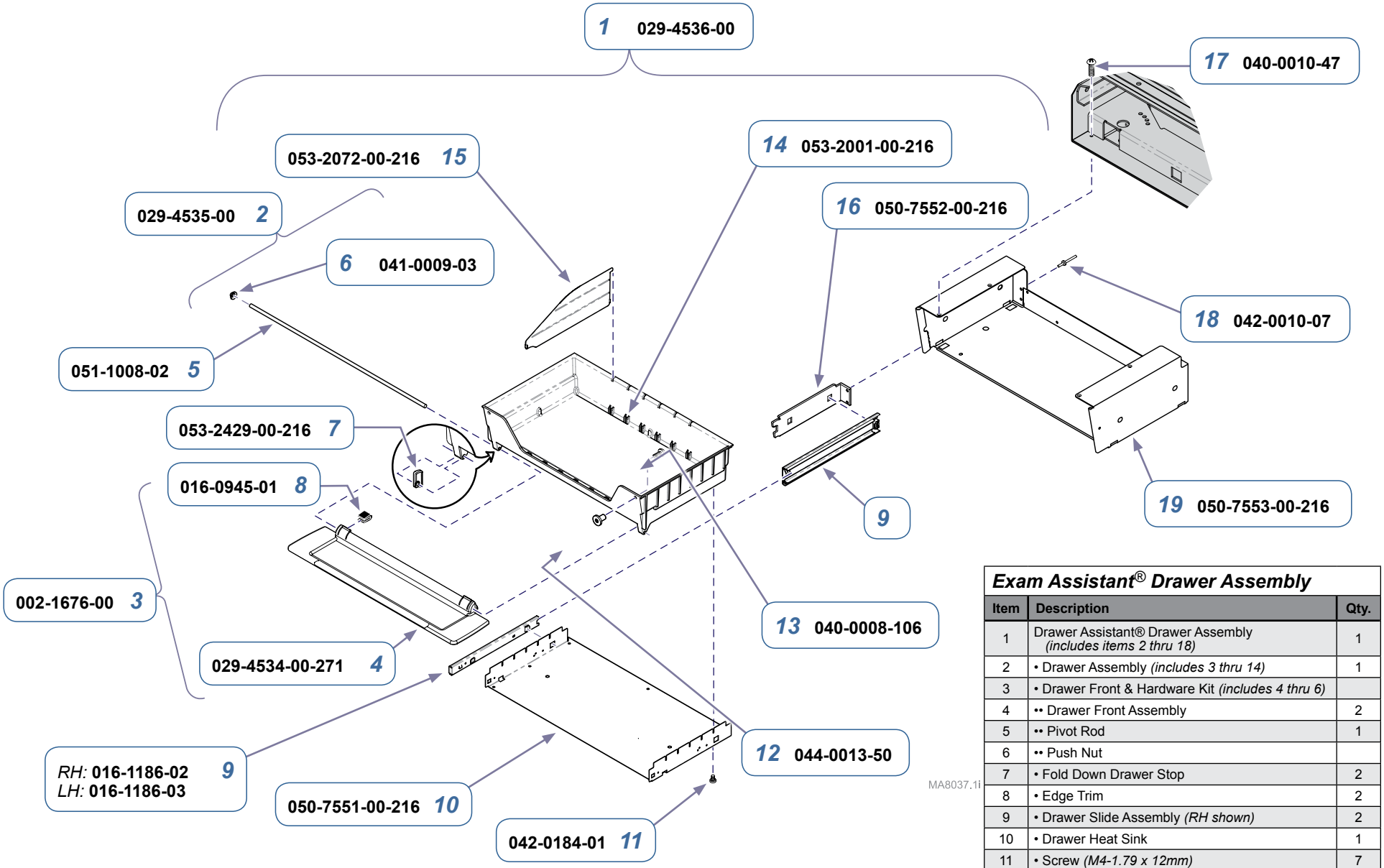

Exam Assistant® Drawer Assembly

Item	Description	Qty.
1	Drawer Assistant® Drawer Assembly *(includes items 2 thru 18)*	1
2	• Drawer Assembly *(includes 3 thru 14)*	1
3	• Drawer Front & Hardware Kit *(includes 4 thru 6)*	
4	•• Drawer Front Assembly	2
5	•• Pivot Rod	1
6	•• Push Nut	
7	• Fold Down Drawer Stop	2
8	• Edge Trim	2
9	• Drawer Slide Assembly *(RH shown)*	2
10	• Drawer Heat Sink	1
11	• Screw *(M4-1.79 x 12mm)*	7
12	• Weld Nut	2
13	• Screw *(#8-32 x 1/4")*	2
14	• Drawer	1
15	Drawer Divider	2
16	Side Bracket	2
17	Screw	4
18	Pop Rivet	4
19	Drawer Housing	1

Models:	**625**	
Serial Numbers:	*V1307859 thru Present*	

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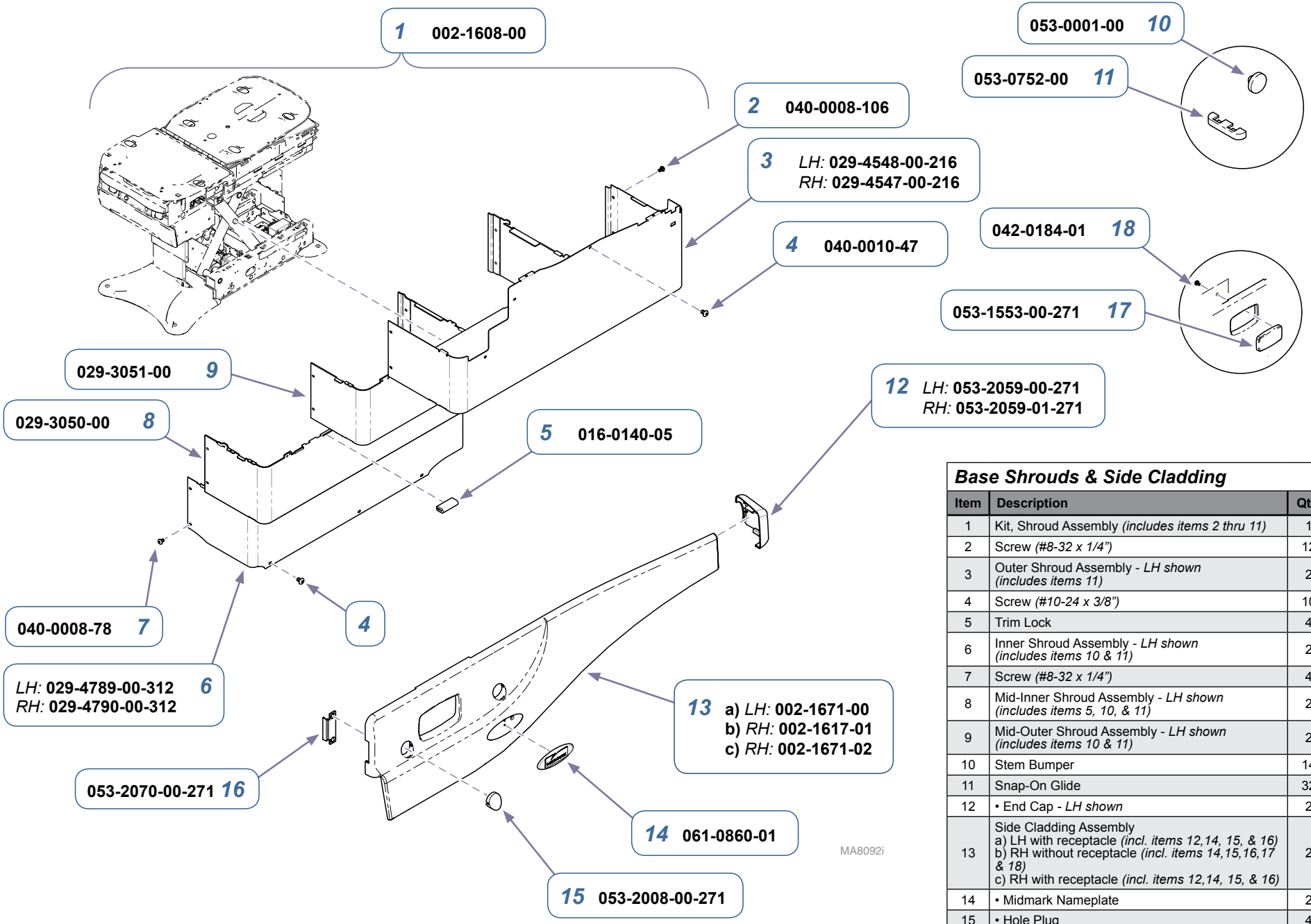

Base Shrouds & Side Cladding

Item	Description	Qty.
1	Kit, Shroud Assembly *(includes items 2 thru 11)*	1
2	Screw *(#8-32 x 1/4")*	12
3	Outer Shroud Assembly - *LH shown* *(includes items 11)*	2
4	Screw *(#10-24 x 3/8")*	10
5	Trim Lock	4
6	Inner Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
7	Screw *(#8-32 x 1/4")*	4
8	Mid-Inner Shroud Assembly - *LH shown* *(includes items 5, 10, & 11)*	2
9	Mid-Outer Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
10	Stem Bumper	14
11	Snap-On Glide	32
12	• End Cap - *LH shown*	2
13	Side Cladding Assembly a) LH with receptacle *(incl. items 12,14, 15, & 16)* b) RH without receptacle *(incl. items 14,15,16,17 & 18)* c) RH with receptacle *(incl. items 12,14, 15, & 16)*	2
14	• Midmark Nameplate	2
15	• Hole Plug	4
16	• Knee Crutch Access Cover	2
	Items 17 & 18 apply only to models w/o receptacle	
17	• Receptacle Hole Cover	1
18	• Screw (M4 x 12)	2

Models:	**625**	
Serial Numbers:	*V2200 thru V1077078*	

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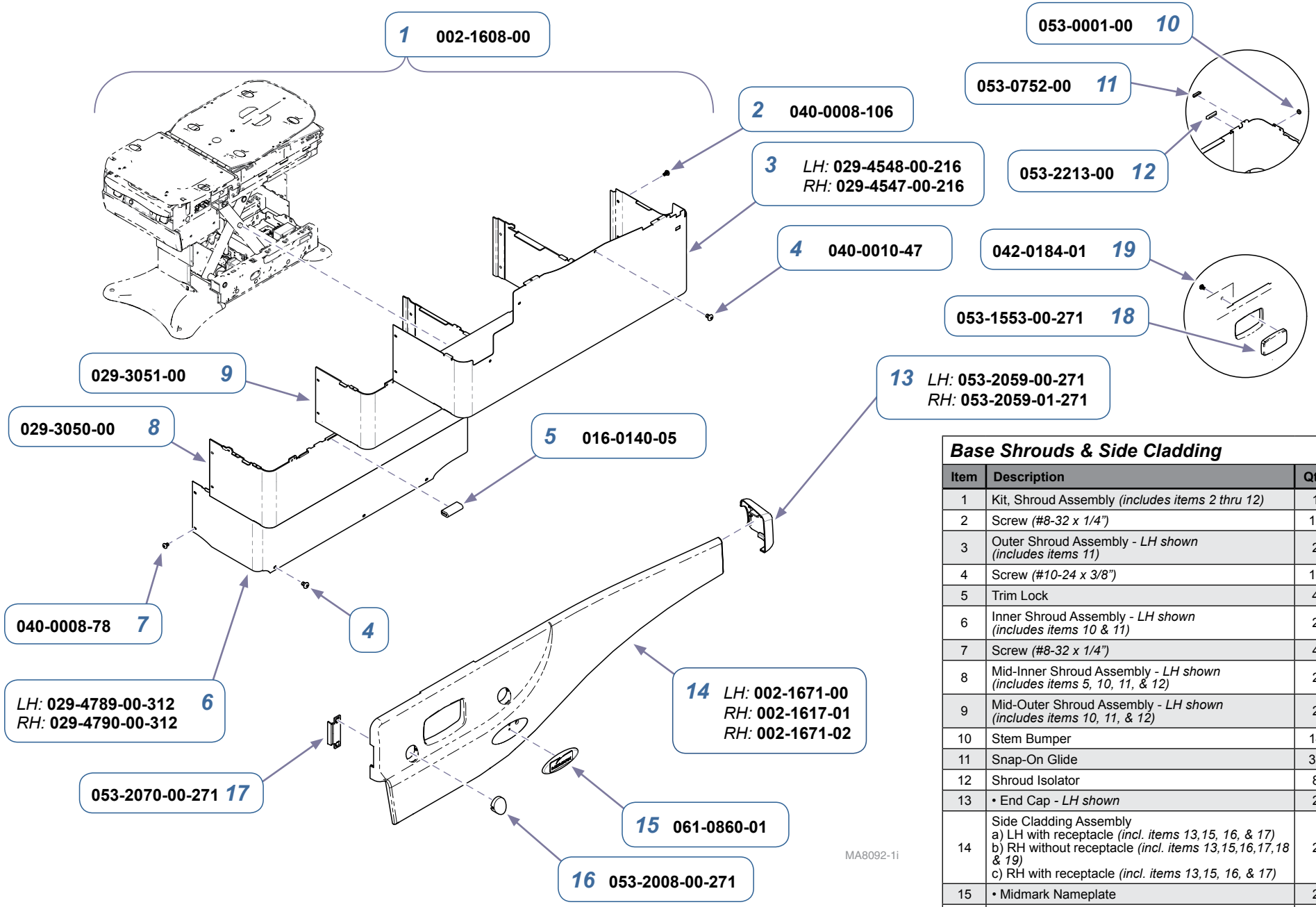

Base Shrouds & Side Cladding

Item	Description	Qty.
1	Kit, Shroud Assembly *(includes items 2 thru 12)*	1
2	Screw *(#8-32 x 1/4")*	12
3	Outer Shroud Assembly - *LH shown (includes items 11)*	2
4	Screw *(#10-24 x 3/8")*	10
5	Trim Lock	4
6	Inner Shroud Assembly - *LH shown (includes items 10 & 11)*	2
7	Screw *(#8-32 x 1/4")*	4
8	Mid-Inner Shroud Assembly - *LH shown (includes items 5, 10, 11, & 12)*	2
9	Mid-Outer Shroud Assembly - *LH shown (includes items 10, 11, & 12)*	2
10	Stem Bumper	14
11	Snap-On Glide	32
12	Shroud Isolator	8
13	• End Cap - *LH shown*	2
14	Side Cladding Assembly a) LH with receptacle *(incl. items 13,15, 16, & 17)* b) RH without receptacle *(incl. items 13,15,16,17,18 & 19)* c) RH with receptacle *(incl. items 13,15, 16, & 17)*	2
15	• Midmark Nameplate	2
16	• Hole Plug	4
17	• Knee Crutch Access Cover	2
	Items 18 & 19 apply only to models w/o receptacle	
18	• Receptacle Hole Cover	1
19	• Screw (M4 x 12)	2

Models:	**625**
Serial Numbers:	*V1077079 thru V1089389*

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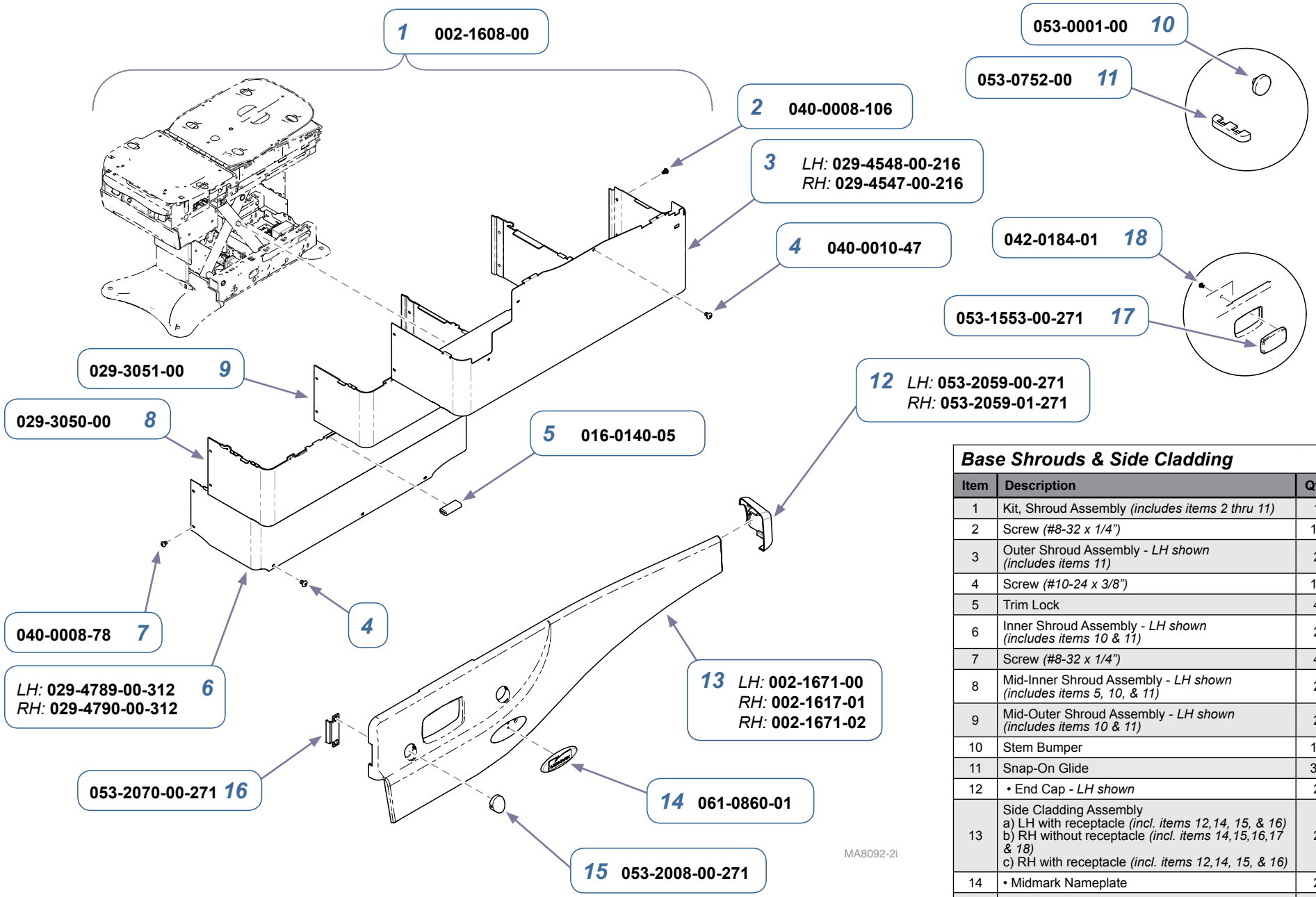

Base Shrouds & Side Cladding

Item	Description	Qty.
1	Kit, Shroud Assembly *(includes items 2 thru 11)*	1
2	Screw *(#8-32 x 1/4")*	12
3	Outer Shroud Assembly - *LH shown* *(includes items 11)*	2
4	Screw *(#10-24 x 3/8")*	10
5	Trim Lock	4
6	Inner Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
7	Screw *(#8-32 x 1/4")*	4
8	Mid-Inner Shroud Assembly - *LH shown* *(includes items 5, 10, & 11)*	2
9	Mid-Outer Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
10	Stem Bumper	14
11	Snap-On Glide	32
12	• End Cap - *LH shown*	2
13	Side Cladding Assembly a) LH with receptacle *(incl. items 12,14, 15, & 16)* b) RH without receptacle *(incl. items 14,15,16,17 & 18)* c) RH with receptacle *(incl. items 12,14, 15, & 16)*	2
14	• Midmark Nameplate	2
15	• Hole Plug	4
16	• Knee Crutch Access Cover	2
	Items 17 & 18 apply only to models w/o receptacle	
17	• Receptacle Hole Cover	1
18	• Screw (M4 x 12)	2

Models:	**625**
Serial Numbers:	*V1089390 thru V1099004*

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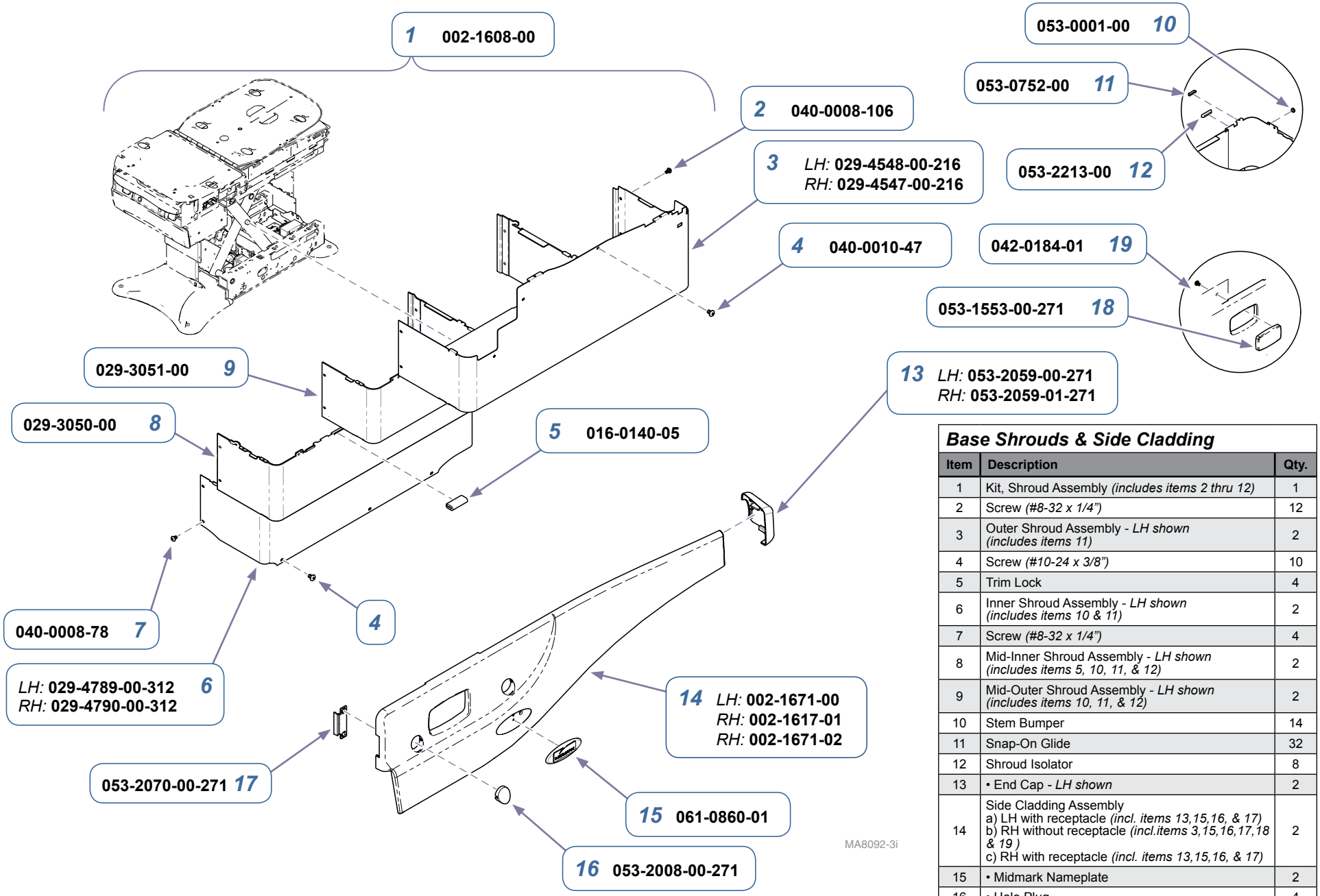

Base Shrouds & Side Cladding

Item	Description	Qty.
1	Kit, Shroud Assembly *(includes items 2 thru 12)*	1
2	Screw *(#8-32 x 1/4")*	12
3	Outer Shroud Assembly - *LH shown* *(includes items 11)*	2
4	Screw *(#10-24 x 3/8")*	10
5	Trim Lock	4
6	Inner Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
7	Screw *(#8-32 x 1/4")*	4
8	Mid-Inner Shroud Assembly - *LH shown* *(includes items 5, 10, 11, & 12)*	2
9	Mid-Outer Shroud Assembly - *LH shown* *(includes items 10, 11, & 12)*	2
10	Stem Bumper	14
11	Snap-On Glide	32
12	Shroud Isolator	8
13	• End Cap - *LH shown*	2
14	Side Cladding Assembly a) LH with receptacle *(incl. items 13,15,16, & 17)* b) RH without receptacle *(incl.items 3,15,16,17,18 & 19)* c) RH with receptacle *(incl. items 13,15,16, & 17)*	2
15	• Midmark Nameplate	2
16	• Hole Plug	4
17	• Knee Crutch Access Cover	2
	Items 18 & 19 apply only to models w/o receptacle	
18	• Receptacle Hole Cover	1
19	• Screw (M4 x 12)	2

Models:	**625**
Serial Numbers:	*V1099005 thru V1149713*

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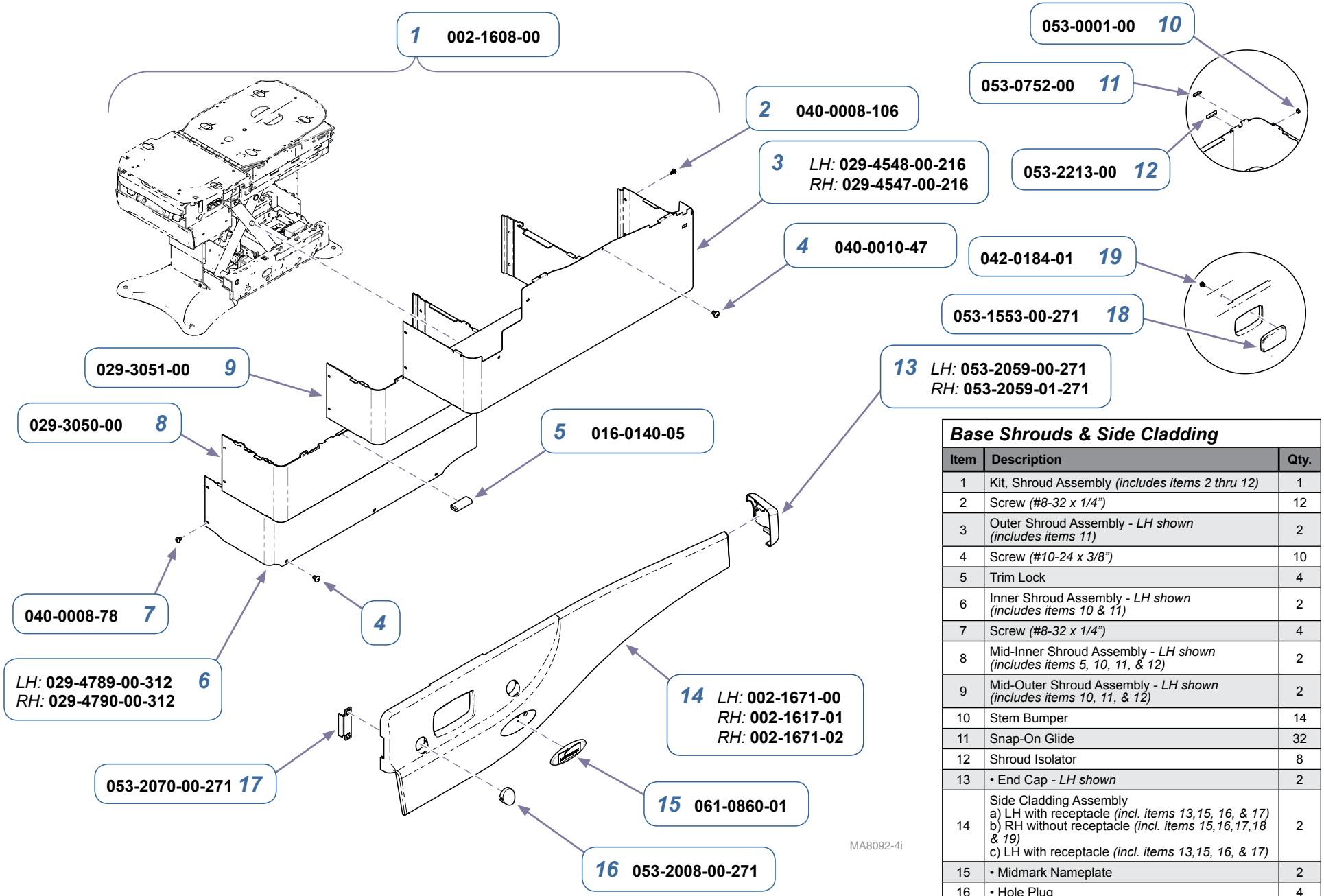

Base Shrouds & Side Cladding

Item	Description	Qty.
1	Kit, Shroud Assembly *(includes items 2 thru 12)*	1
2	Screw *(#8-32 x 1/4")*	12
3	Outer Shroud Assembly - *LH shown* *(includes items 11)*	2
4	Screw *(#10-24 x 3/8")*	10
5	Trim Lock	4
6	Inner Shroud Assembly - *LH shown* *(includes items 10 & 11)*	2
7	Screw *(#8-32 x 1/4")*	4
8	Mid-Inner Shroud Assembly - *LH shown* *(includes items 5, 10, 11, & 12)*	2
9	Mid-Outer Shroud Assembly - *LH shown* *(includes items 10, 11, & 12)*	2
10	Stem Bumper	14
11	Snap-On Glide	32
12	Shroud Isolator	8
13	• End Cap - *LH shown*	2
14	Side Cladding Assembly a) LH with receptacle *(incl. items 13,15, 16, & 17)* b) RH without receptacle *(incl. items 15,16,17,18 & 19)* c) LH with receptacle *(incl. items 13,15, 16, & 17)*	2
15	• Midmark Nameplate	2
16	• Hole Plug	4
17	• Knee Crutch Access Cover	2
	Items 18 & 19 apply only to models w/o receptacle	
18	• Receptacle Hole Cover	2
19	• Screw (M4 x 12)	4

Models:	**625**
Serial Numbers:	*V1149714 thru Present*

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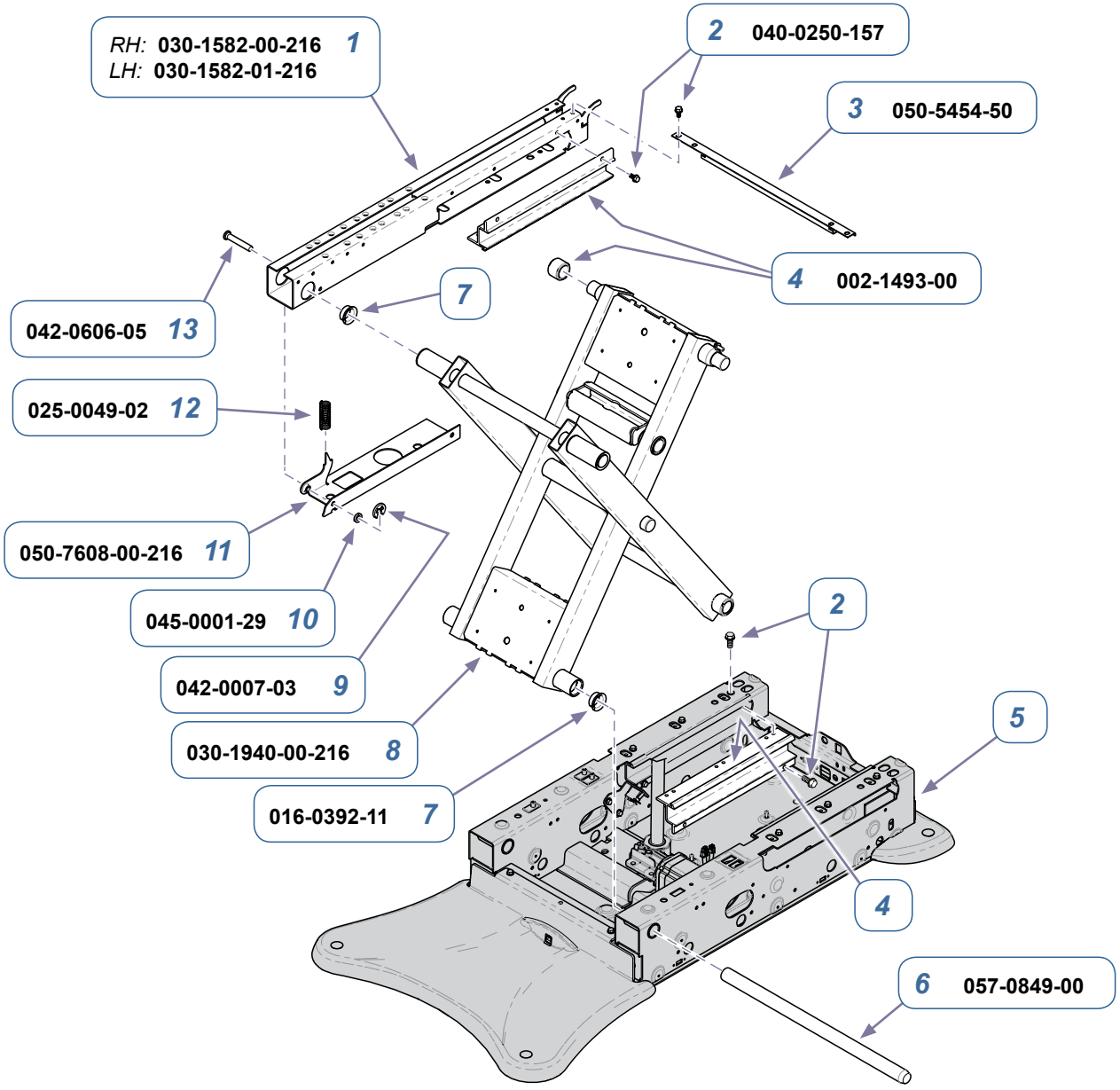
Always verify model & serial number



Base Scissor / Slide Mechanism

Item	Description	Qty.
1	Scissor Channel Weldment *(RH shown)*	2
2	Flat Head Screw (1/4-20 x 1/2")	4
3	Top Cover Support Channel	1
4	Kit, Scissor Rollers	1
5	Refer to: *"Base Components"*	Ref
6	Pivot Shaft	1
7	Flange Bearing	4
8	Scissor Arm Weldment	1
9	E-clip	1
10	Washer	1
11	Auto Return ("Home") Switch Strike	1
12	Spring	1
13	Clevis Pin	1

Models:	**625**	
Serial Numbers:	*V2200 thru V1158421*	

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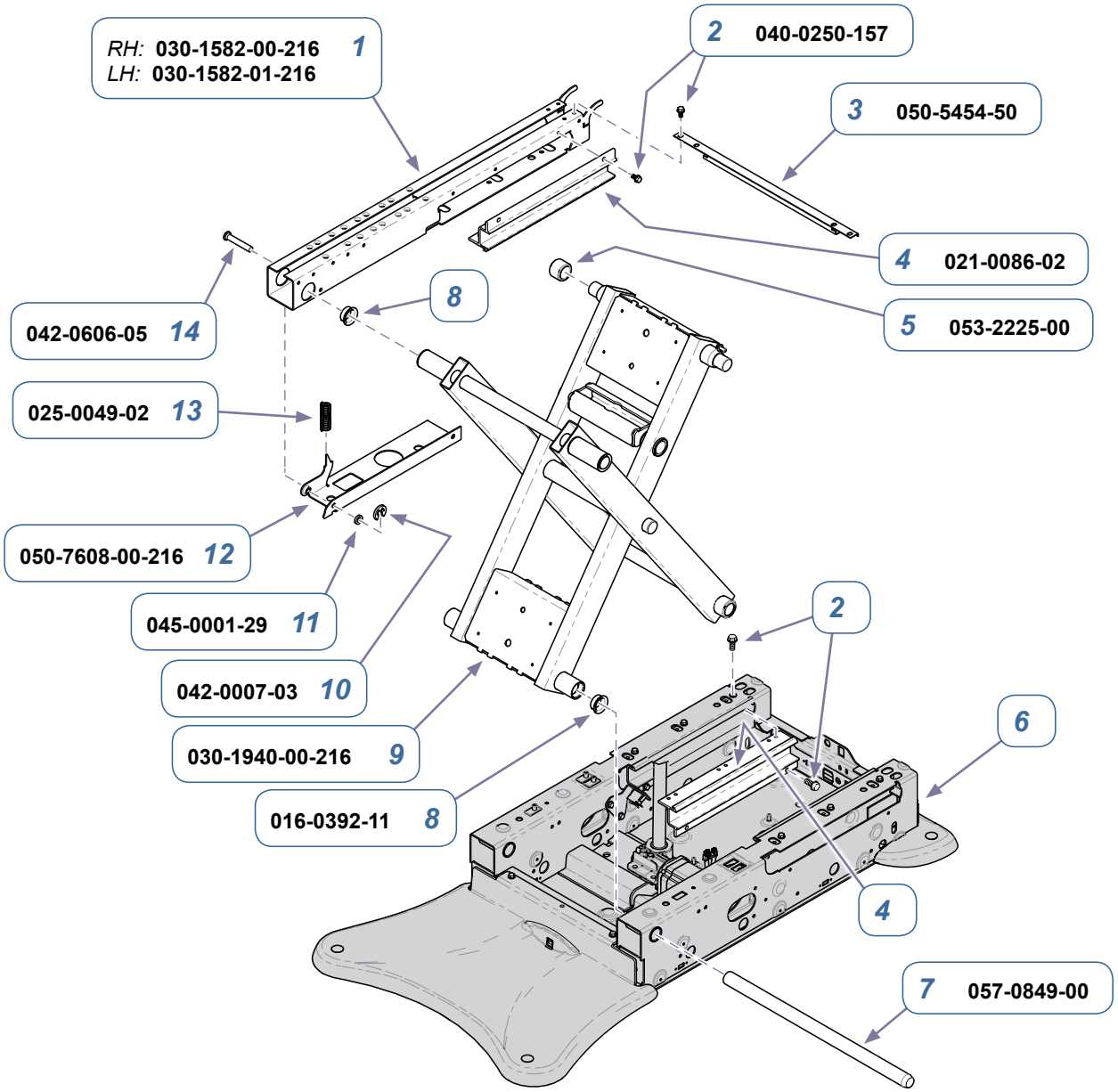
Always verify model & serial number



Models:	625	
Serial Numbers:	V1158422 thru Present	

Base Scissor / Slide Mechanism

Item	Description	Qty.
1	Scissor Channel Weldment *(RH shown)*	2
2	Flat Head Screw (1/4-20 x 1/2")	4
3	Top Cover Support Channel	1
4	Extrusion Slide	2
5	Bearing Guide	4
6	Refer to: *"Base Components"*	Ref
7	Pivot Shaft	1
8	Flange Bearing	4
9	Scissor Arm Weldment	1
10	E-clip	1
11	Washer	1
12	Auto Return ("Home") Switch Strike	1
13	Spring	1
14	Clevis Pin	1

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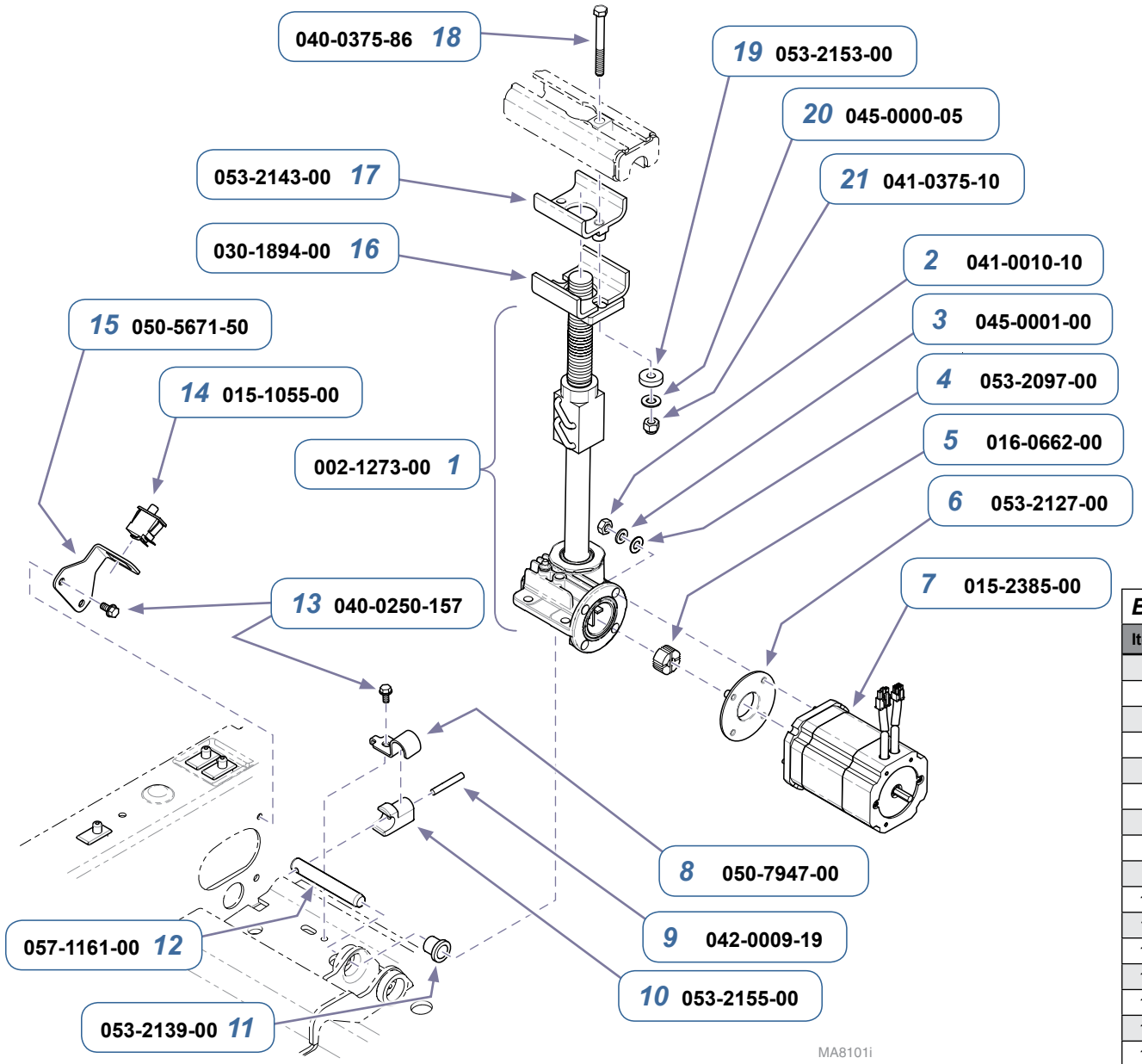
Always verify model & serial number



Base Actuator / Limit Switches

Item	Description	Qty.
1	Base Actuator Kit *(includes items 2 thru 7)*	1
2	• Nut	2
3	• Shim Washer	2
4	• Isolation Washer	2
5	• Motor Coupler	1
6	• Motor Isolator	1
7	• Motor Assembly	1
8	Isolator Clamp	1
9	Groove Pin	1
10	Actuator Pin Isolator	1
11	Bushing	2
12	Base Actuator Pin	1
13	Hex Bolt *(1/4-20 x 1/2")*	3
14	Limit Switch	4
15	Switch Bracket	1
16	Cradle Weldment	1
17	Pivot Block Isolator	1
18	Hex Screw *(3/8-16 x 3 1/2")*	2
19	Washer	2
20	Washer	2
21	Nut	2

Models:	**625**	
Serial Numbers:	*V2200 thru V968527*	

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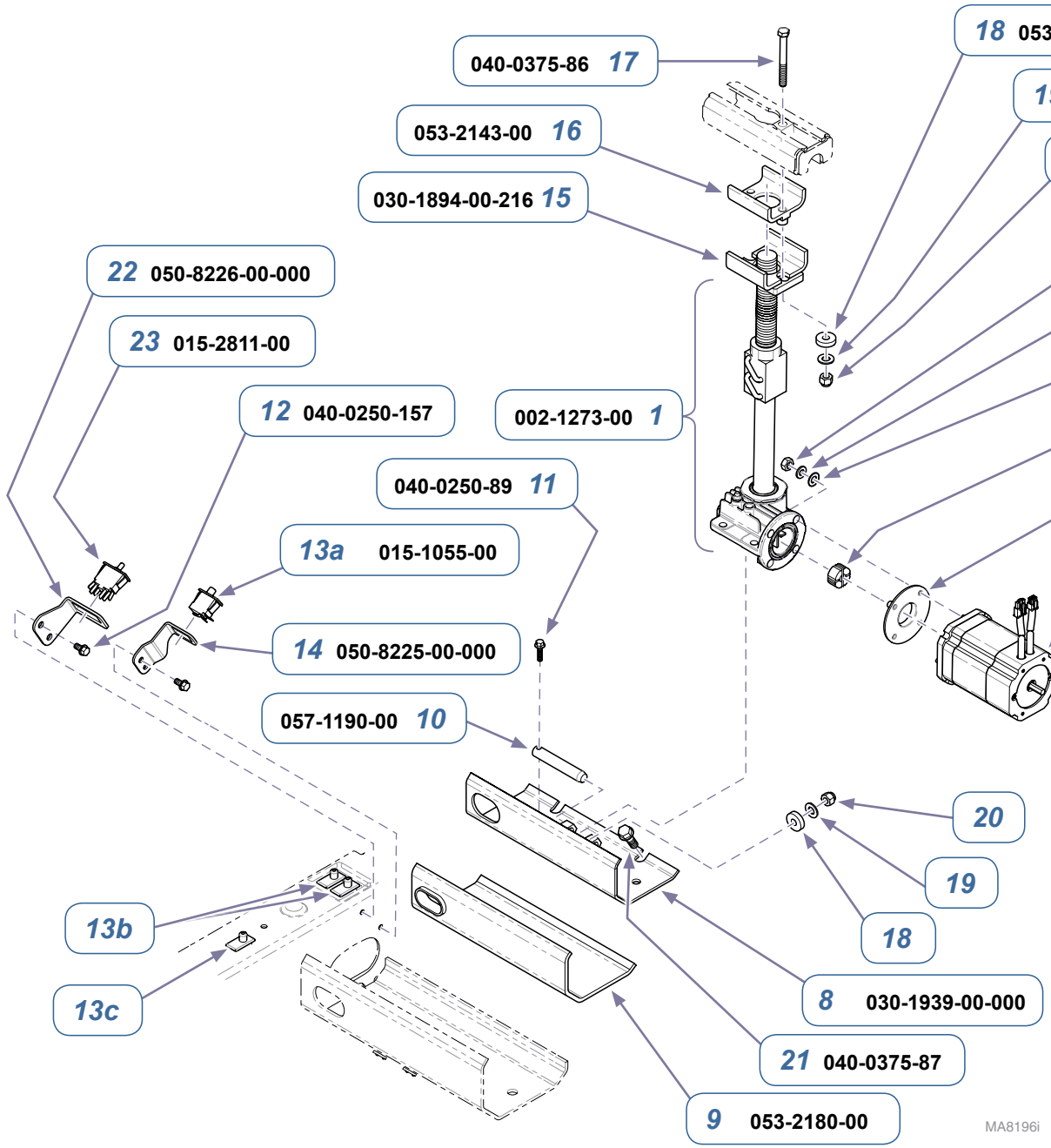
Always verify model & serial number



Base Actuator / Limit Switches

Item	Description	Qty.
1	Base Actuator Kit *(includes items 2 thru 7)*	1
2	• Nut	2
3	• Shim Washer	2
4	• Isolation Washer	2
5	• Motor Coupler	1
6	• Motor Isolator	1
7	• Motor Assembly	1
8	Inner Actuator Mount	1
9	Base Actuator Isolator	1
10	Base Actuator Pin	1
11	Screw *(1/4-20 x 1")*	2
12	Hex Bolt *(1/4-20 x 1/2")*	4
13	*a)* Base Up Limit Switch *b)* Home Function Limit Switches *c)* Base Down Limit Switch	4
14	Switch Bracket	1
15	Cradle Weldment	1
16	Pivot Block Isolator	1
17	Hex Screw *(3/8-16 x 3 1/2")*	2
18	Washer	4
19	Washer	4
20	Nut	4
21	Hex Washer Head Screw *(3/8-16 x 1 1/8")*	2
22	Switch Bracket	1
23	Over Travel Limit Switch	1

Models:	**625**
Serial Numbers:	*V968528 thru present*

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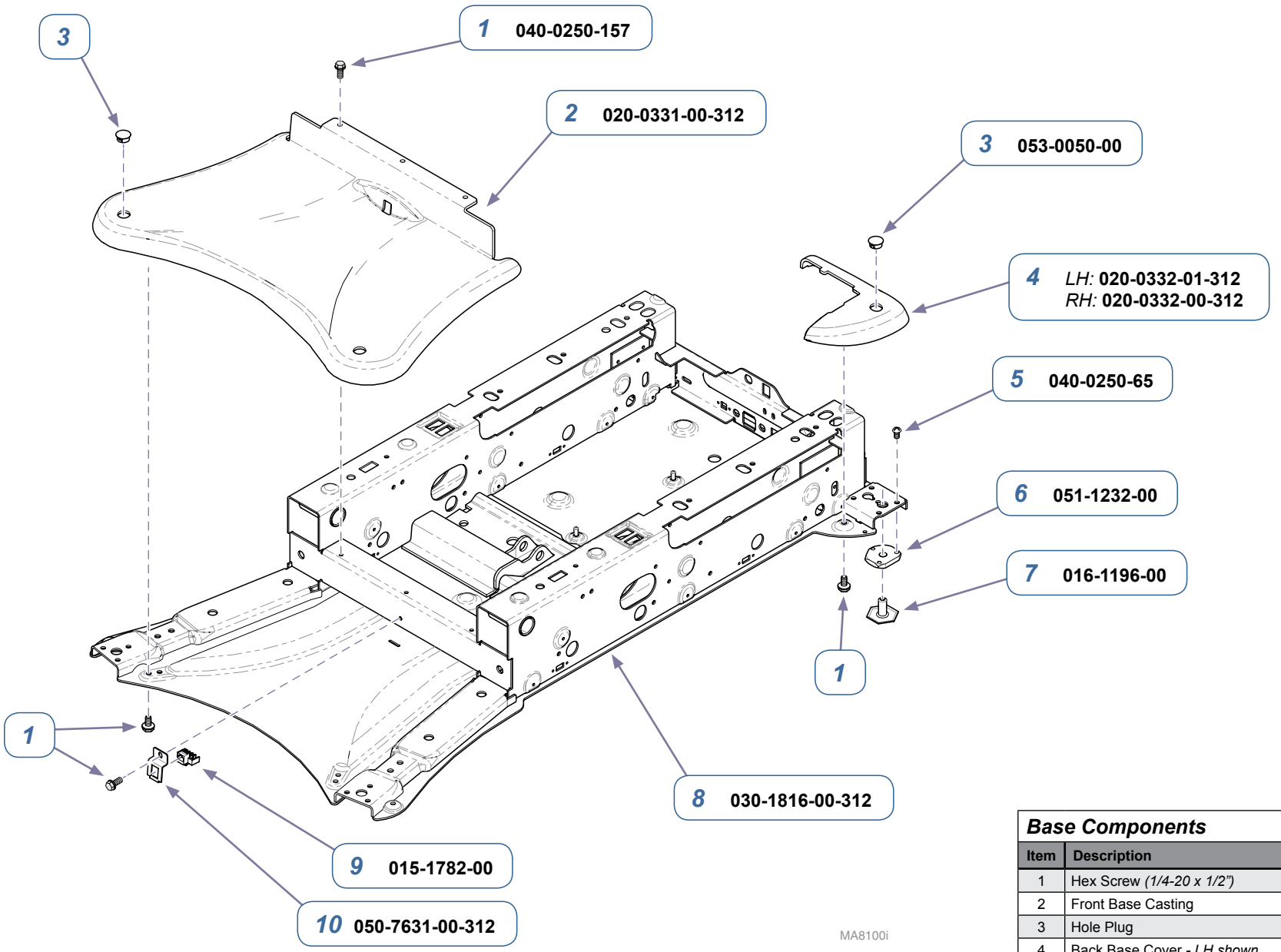
Always verify model & serial number



Models:	625 (-001 /-003 /-005 /-006)	
Serial Numbers:	V2200 thru V968527	

Base Components

Item	Description	Qty.
1	Hex Screw *(1/4-20 x 1/2")*	11
2	Front Base Casting	1
3	Hole Plug	4
4	Back Base Cover - *LH shown*	2
5	Screw *(1/4-20 x 1/2")*	6
6	Leveling Foot Mount	2
7	Leveling Foot	2
8	Base Weldment	1
9	Hand / Foot Control Inlet	1
10	Bracket	1

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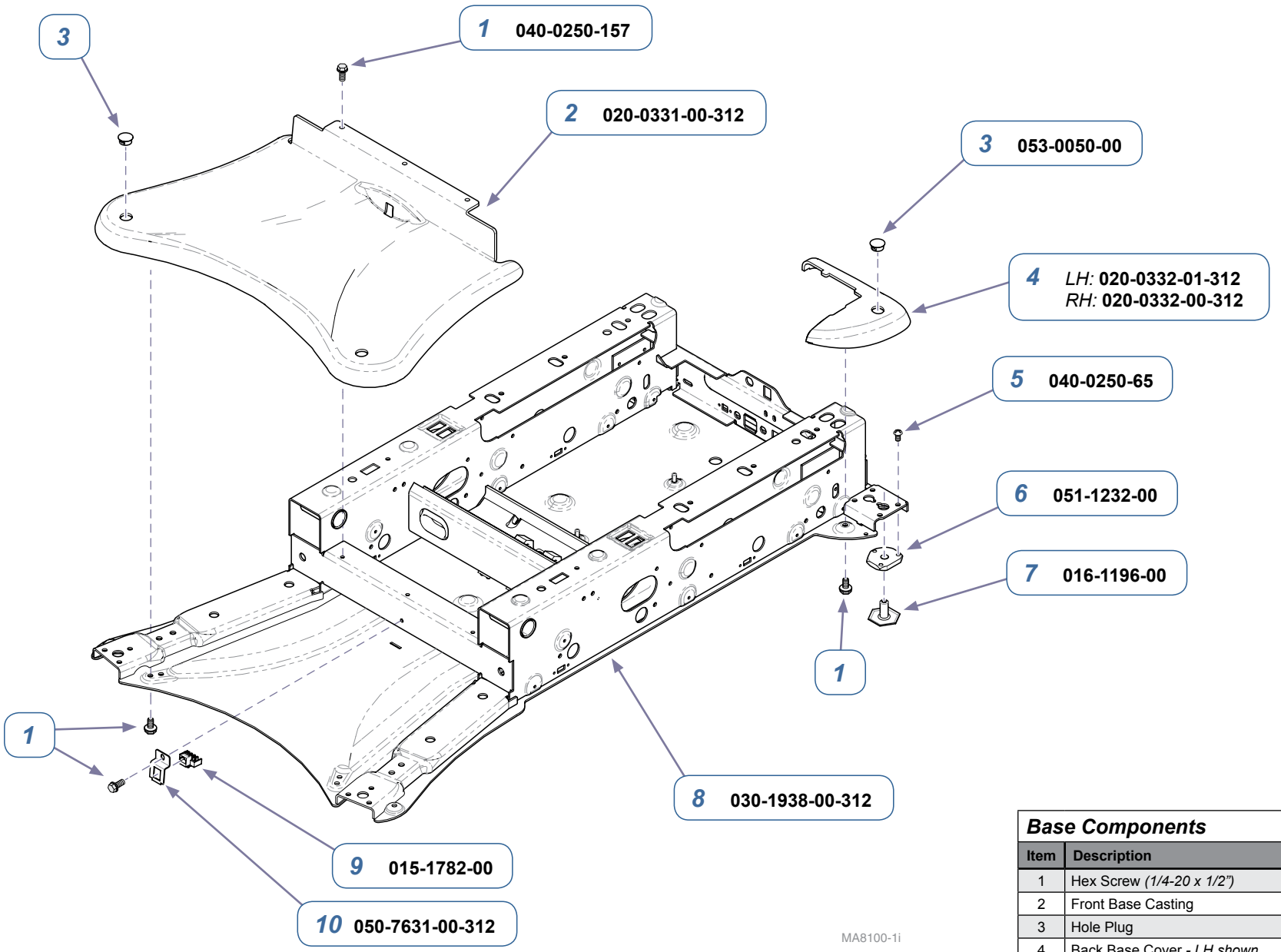
Always verify model & serial number



Models:	625 (-001 /-003 /-005 /-006)	
Serial Numbers:	V968528 thru V1182355	

Base Components

Item	Description	Qty.
1	Hex Screw *(1/4-20 x 1/2")*	11
2	Front Base Casting	1
3	Hole Plug	4
4	Back Base Cover - *LH shown*	2
5	Screw *(1/4-20 x 1/2")*	6
6	Leveling Foot Mount	2
7	Leveling Foot	2
8	Base Weldment	1
9	Hand / Foot Control Inlet	1
10	Bracket	1

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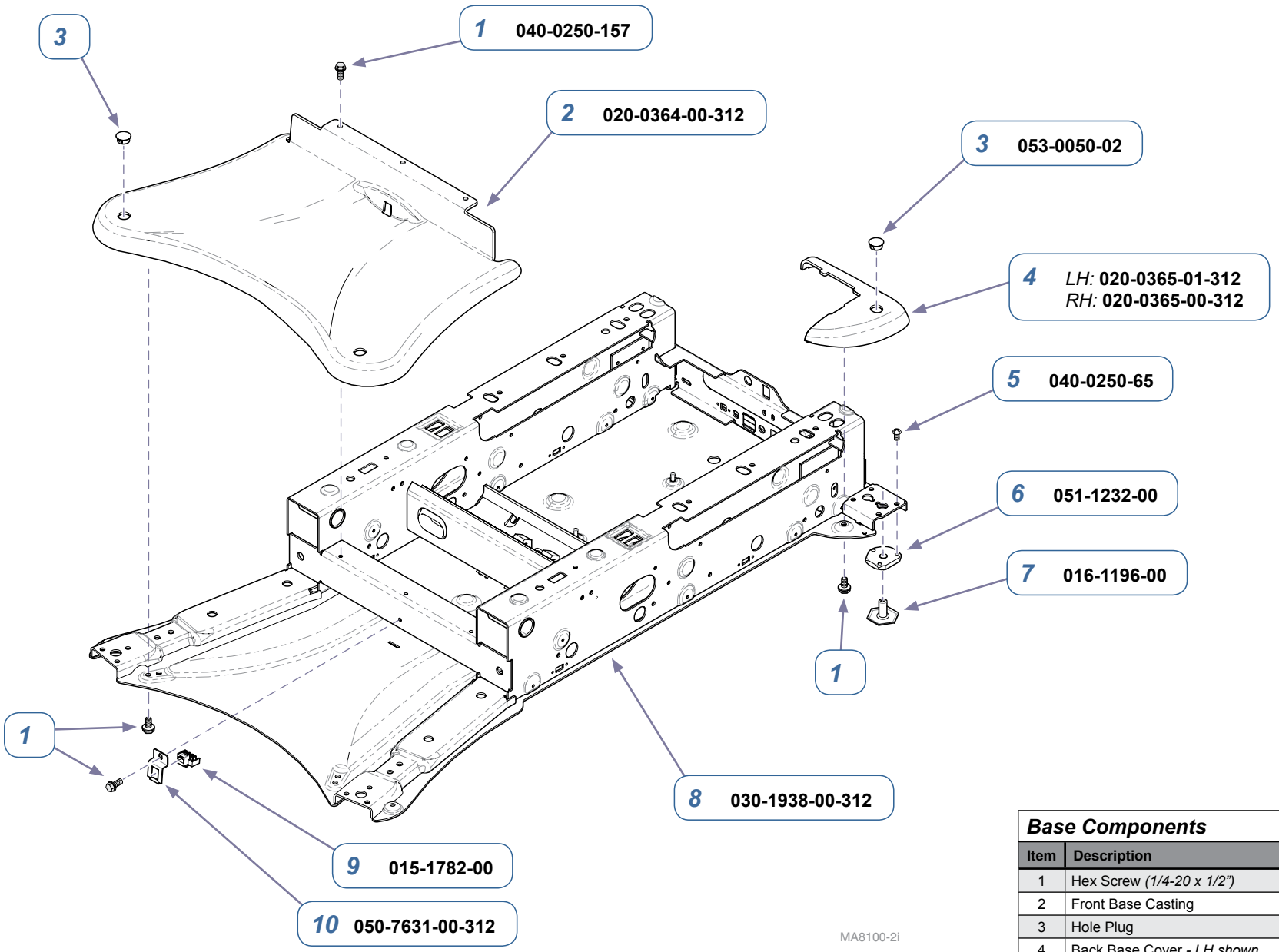
Always verify model & serial number



Models:	625 (-001 /-003 /-005 /-006)	
Serial Numbers:	V1182356 thru Present	

Base Components

Item	Description	Qty.
1	Hex Screw *(1/4-20 x 1/2")*	11
2	Front Base Casting	1
3	Hole Plug	4
4	Back Base Cover - *LH shown*	2
5	Screw *(1/4-20 x 1/2")*	6
6	Leveling Foot Mount	2
7	Leveling Foot	2
8	Base Weldment	1
9	Hand / Foot Control Inlet	1
10	Bracket	1

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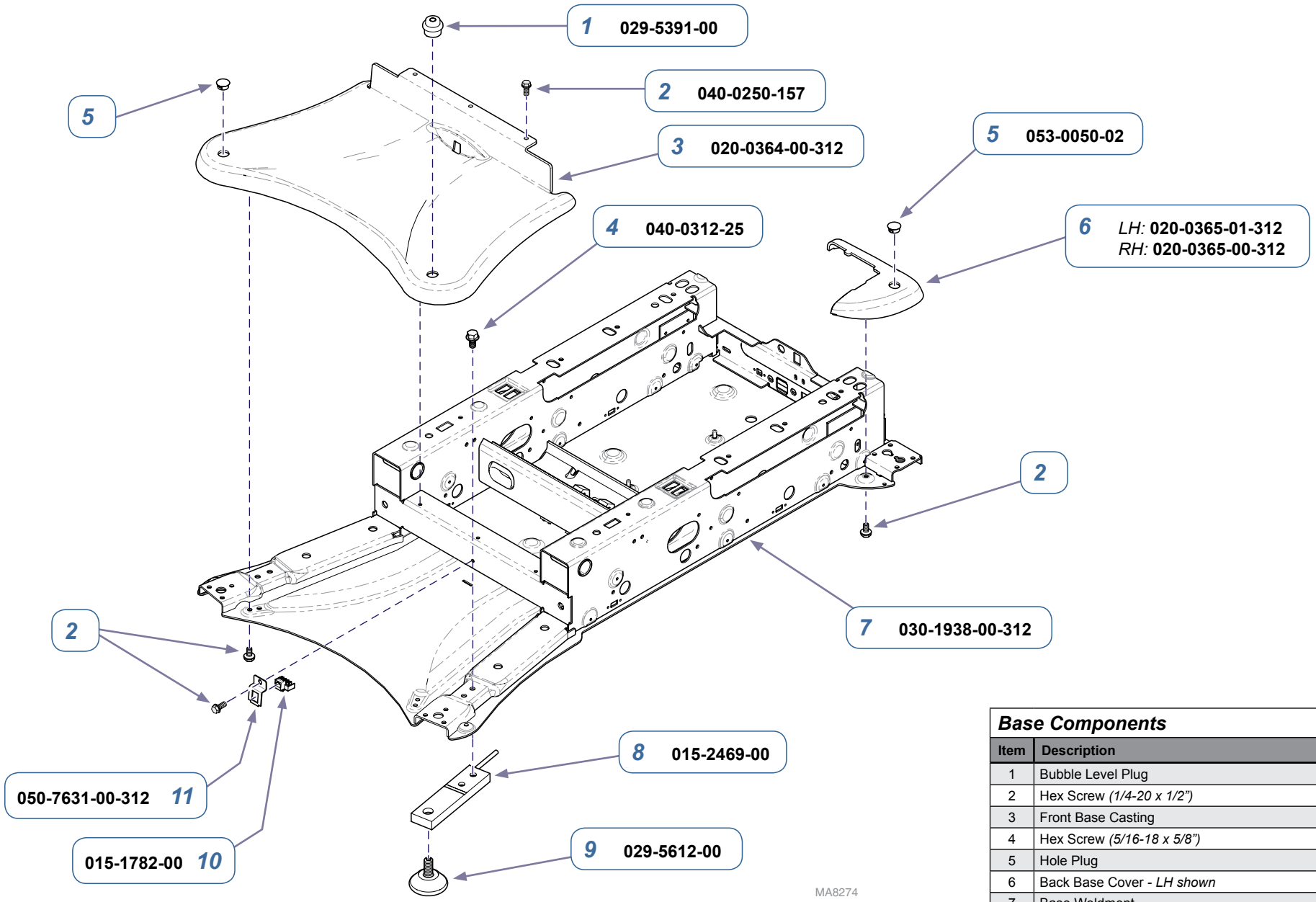
Always verify model & serial number



Models:	625-004	
Serial Numbers:	all	

Base Components

Item	Description	Qty.
1	Bubble Level Plug	1
2	Hex Screw *(1/4-20 x 1/2")*	11
3	Front Base Casting	1
4	Hex Screw *(5/16-18 x 5/8")*	8
5	Hole Plug	4
6	Back Base Cover - *LH shown*	2
7	Base Weldment	1
8	Load Cell	4
9	Leveling Feet Set *(includes four leveling feet)*	1
10	Hand / Foot Control Inlet	1
11	Bracket	1

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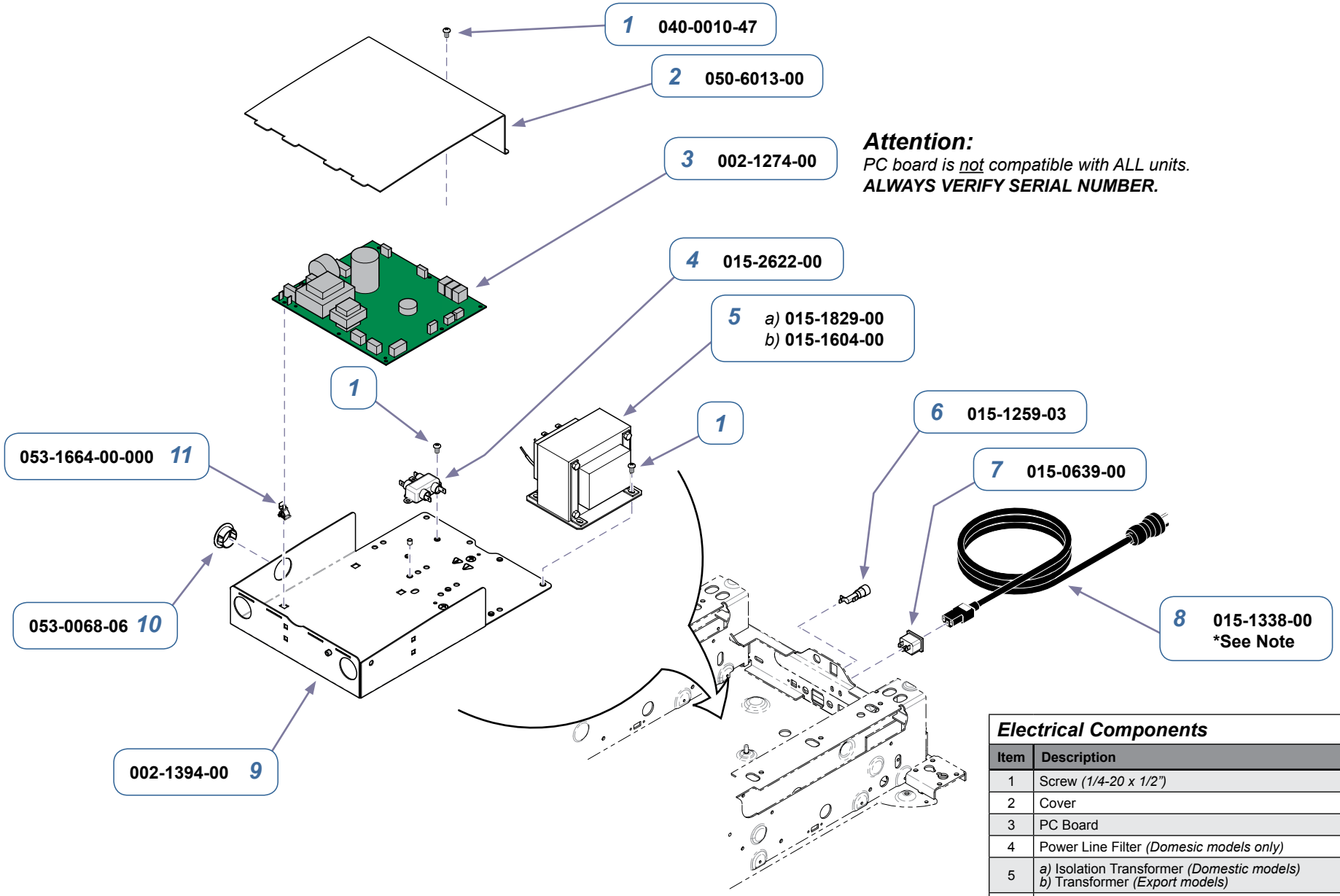
Always verify model & serial number



Attention:
PC board is not compatible with ALL units.
ALWAYS VERIFY SERIAL NUMBER.

Models:	***625 (-001 /-003)***
Serial Numbers:	*V2200 thru V968527*

Electrical Components

Item	Description	Qty.
1	Screw *(1/4-20 x 1/2")*	8
2	Cover	1
3	PC Board	1
4	Power Line Filter *(Domesic models only)*	1
5	*a)* Isolation Transformer *(Domestic models)* *b)* Transformer *(Export models)*	1
6	Fuse Holder	2
7	Power Cord Inlet	1
8	Power Cord *(N. American, 120V, 8 ft)* **Note: Export models require accessory: 9A152 International Cordsets.*	1
9	Housing *(includes nutserts)*	1
10	Snap Bushing	3
11	Standoff	6

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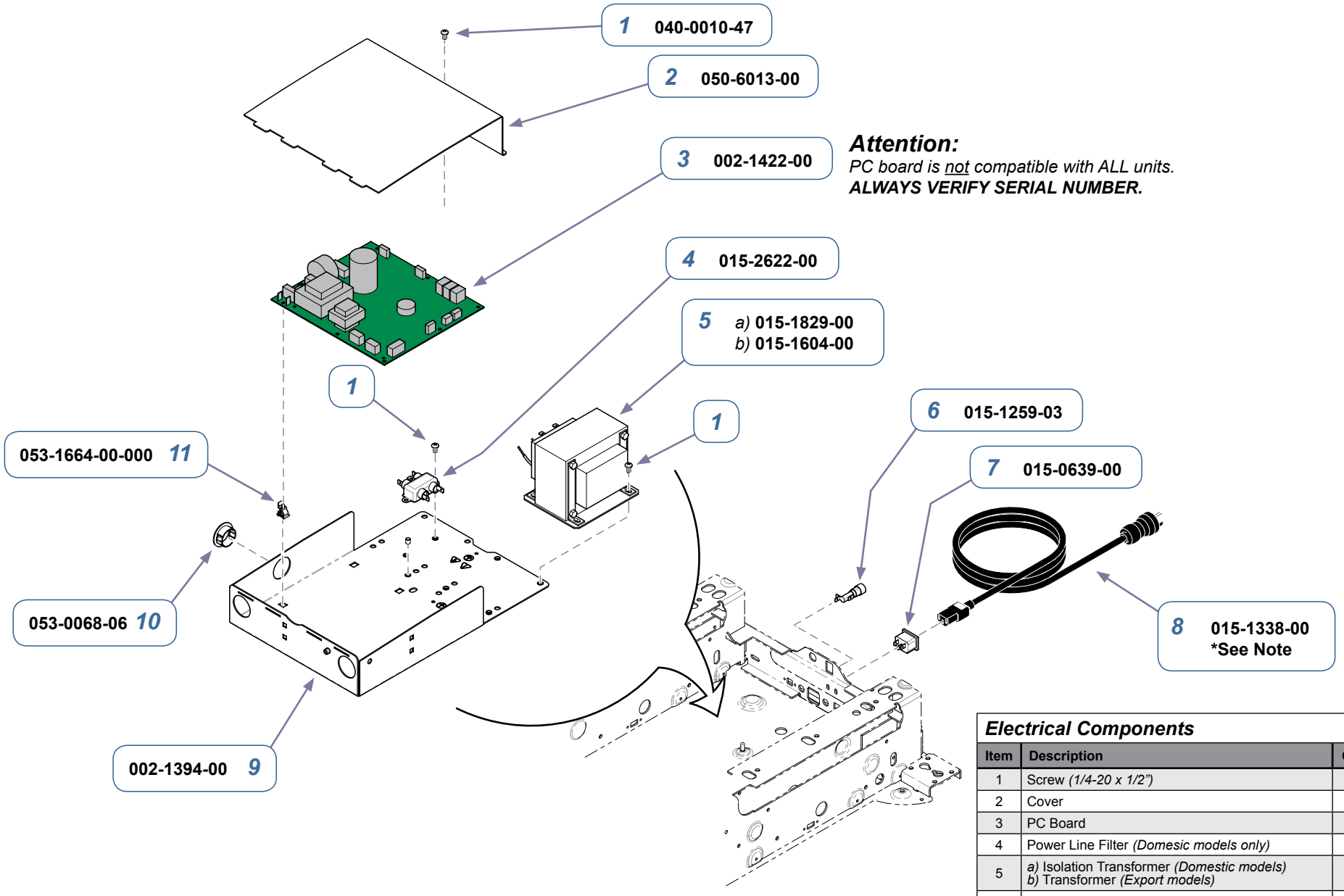
Always verify model & serial number



Attention:
PC board is not compatible with ALL units.
ALWAYS VERIFY SERIAL NUMBER.

Electrical Components

Item	Description	Qty.
1	Screw *(1/4-20 x 1/2")*	8
2	Cover	1
3	PC Board	1
4	Power Line Filter *(Domesic models only)*	1
5	*a)* Isolation Transformer *(Domestic models)* *b)* Transformer *(Export models)*	1
6	Fuse Holder	2
7	Power Cord Inlet	1
8	Power Cord *(N. American, 120V, 8 ft)* **Note: Export models require accessory: 9A152 International Cordsets.*	1
9	Housing *(includes nutserts)*	1
10	Snap Bushing	3
11	Standoff	6

Models:	***625 (-001 /-003)***	
Serial Numbers:	*V968528 thru V1266165*	

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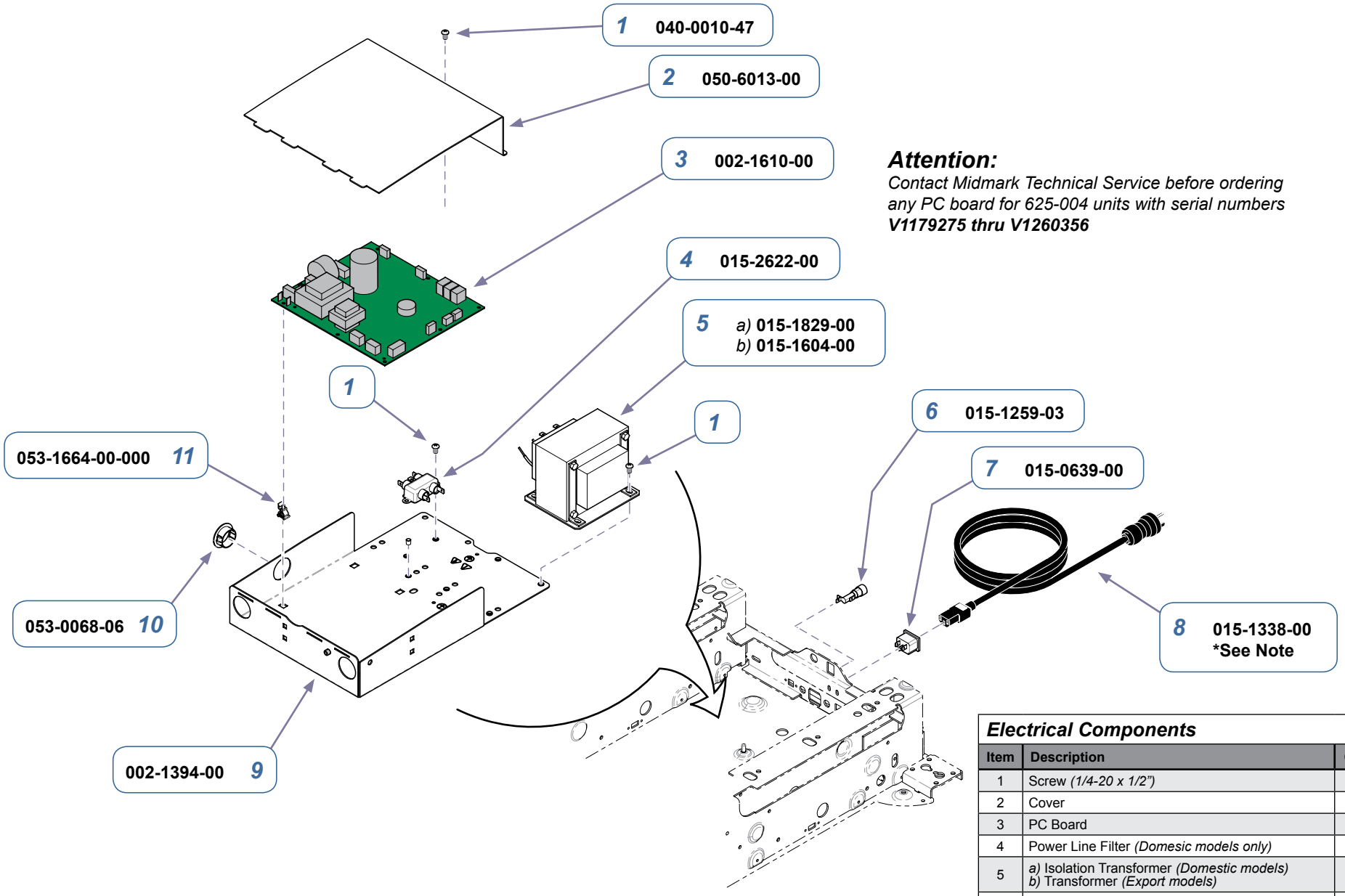
Always verify model & serial number



Attention:

Contact Midmark Technical Service before ordering any PC board for 625-004 units with serial numbers ***V1179275 thru V1260356***

Electrical Components

Item	Description	Qty.
1	Screw *(1/4-20 x 1/2")*	8
2	Cover	1
3	PC Board	1
4	Power Line Filter *(Domesic models only)*	1
5	*a)* Isolation Transformer *(Domestic models)* *b)* Transformer *(Export models)*	1
6	Fuse Holder	2
7	Power Cord Inlet	1
8	Power Cord *(N. American, 120V, 8 ft)* **Note: Export models require accessory: 9A152 International Cordsets.*	1
9	Housing *(includes nutserts)*	1
10	Snap Bushing	3
11	Standoff	6

Models:	***625 (-001 /-003)***	***625-004***	
Serial Numbers:	*V1266166 thru present*	*all*	

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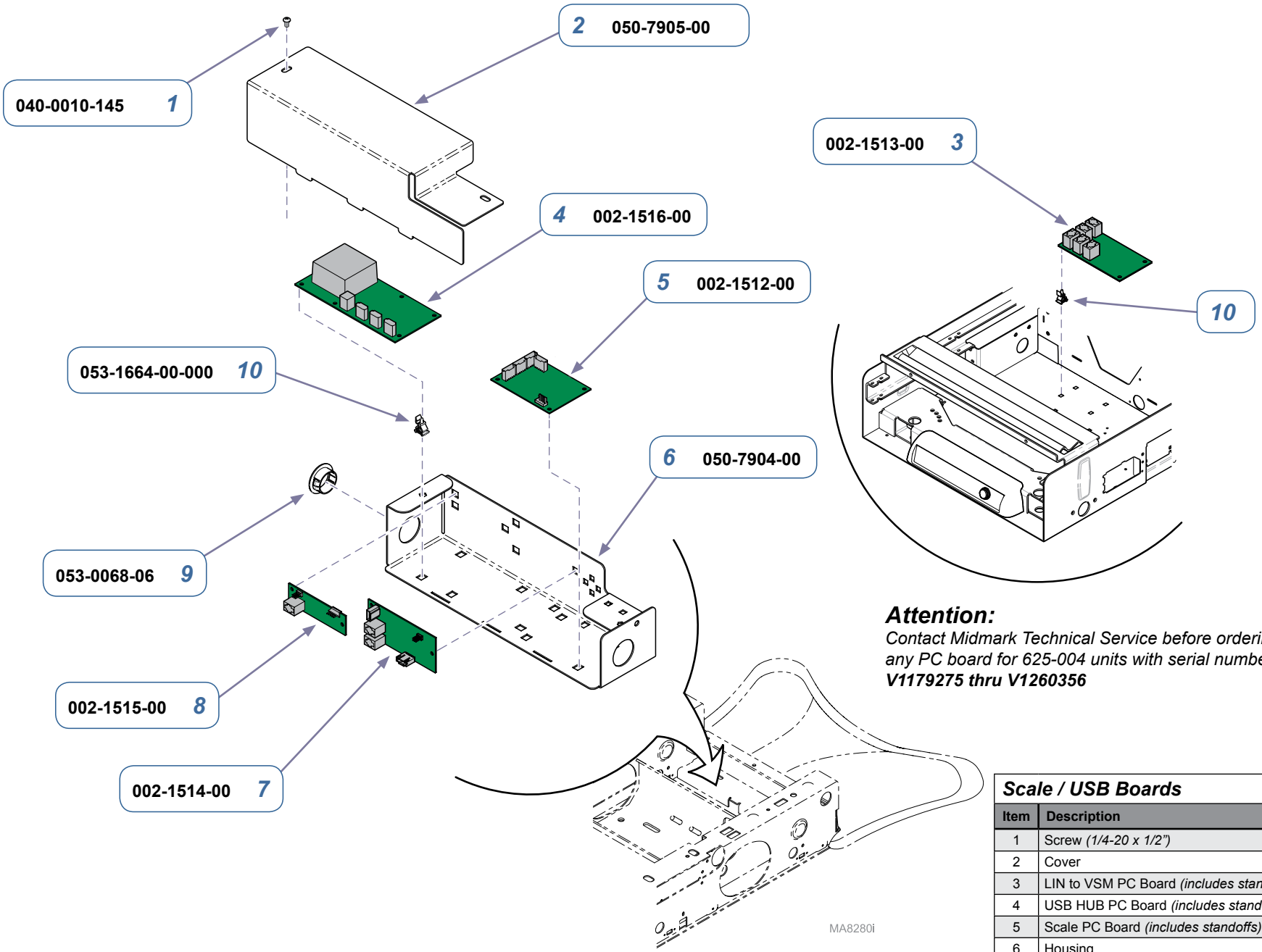
Always verify model & serial number



Attention:

Contact Midmark Technical Service before ordering any PC board for 625-004 units with serial numbers ***V1179275 thru V1260356***

Models:	***625-004***	
Serial Numbers:	*all*	

Scale / USB Boards

Item	Description	Qty.
1	Screw *(1/4-20 x 1/2")*	2
2	Cover	1
3	LIN to VSM PC Board *(includes standoffs)*	1
4	USB HUB PC Board *(includes standoffs)*	1
5	Scale PC Board *(includes standoffs)*	1
6	Housing	1
7	625 to USB PC Board *(includes standoffs)*	1
8	LIN to Scale PC Board *(includes standoffs)*	1
9	Snap Bushing	3
10	Standoff	21

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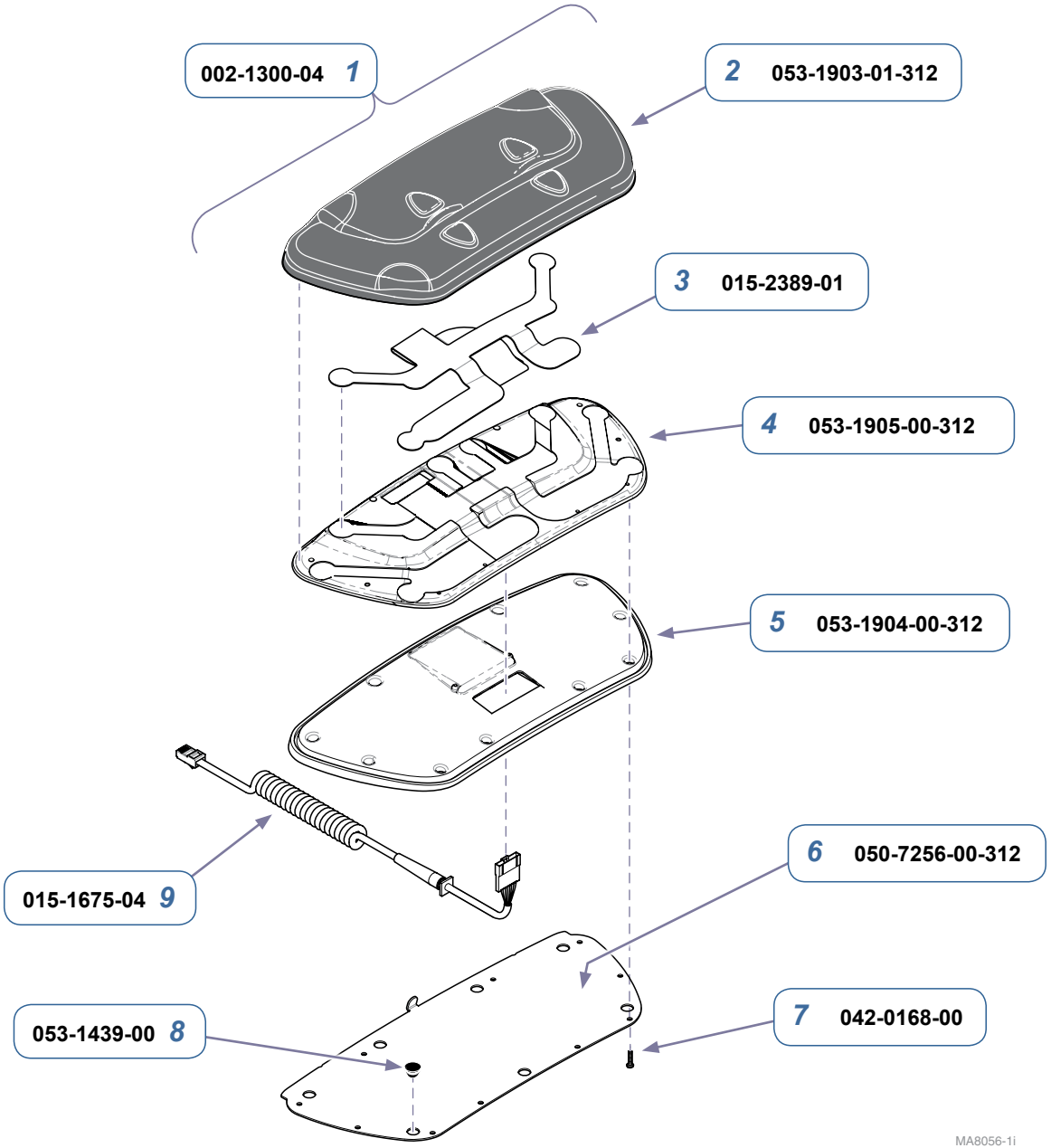
Always verify model & serial number



Note
Refer to "Wireless Controls" if applicable.

Models:	625 (-001 /-005 /-006)	
Serial Numbers:	all	

Foot Control Assembly

Item	Description	Qty.
1	Foot Control Assembly *(incl. items 2 thru 9)*	1
2	• Keypad	1
3	• Switch Membrane	1
4	• Retainer	1
5	• Base	1
6	• Baseplate	1
7	• Screw	10
8	• Stem Bumper	7
9	• Cord	1

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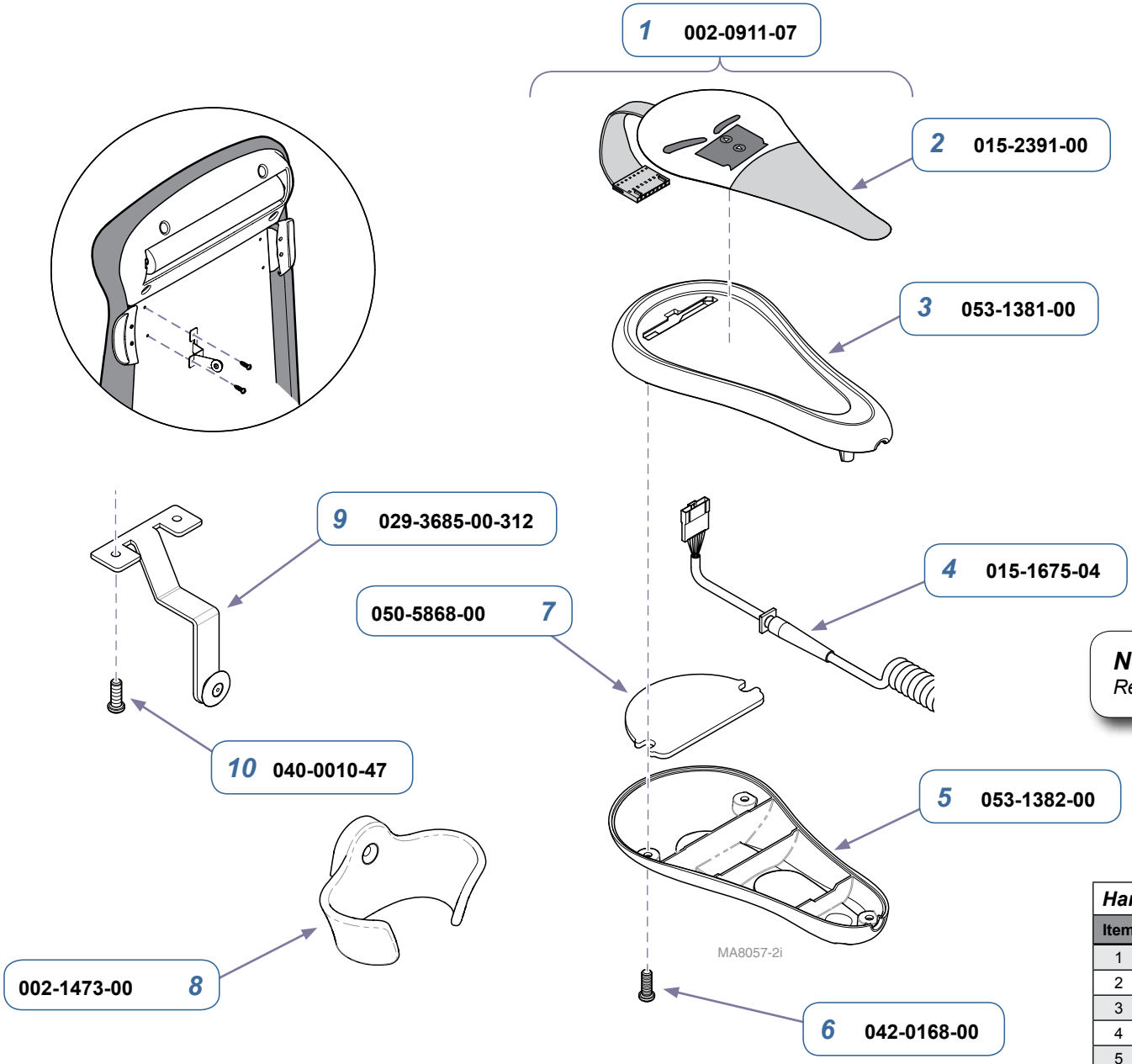
Always verify model & serial number



Note
Refer to "Wireless Controls" if applicable.

Hand Control Assembly

Item	Description	Qty.
1	Hand Control Assembly *(incl. items 2 thru 8)*	1
2	• Switch Membrane	1
3	• Housing - Top	1
4	• Cord	1
5	• Housing - Bottom	1
6	• Screw *(ATF PT K35 x 10 cross recess pan hd.)*	4
7	• Weight	1
8	• Hand Control Holster	1
9	Hand Control Bracket Assembly *(incl. item 10)*	1
10	• Screw *(#10-24 x 3/8" pan head phillips)*	2

Models:	***625 (-001 /-005 /-006)***	
Serial Numbers:	*all*	

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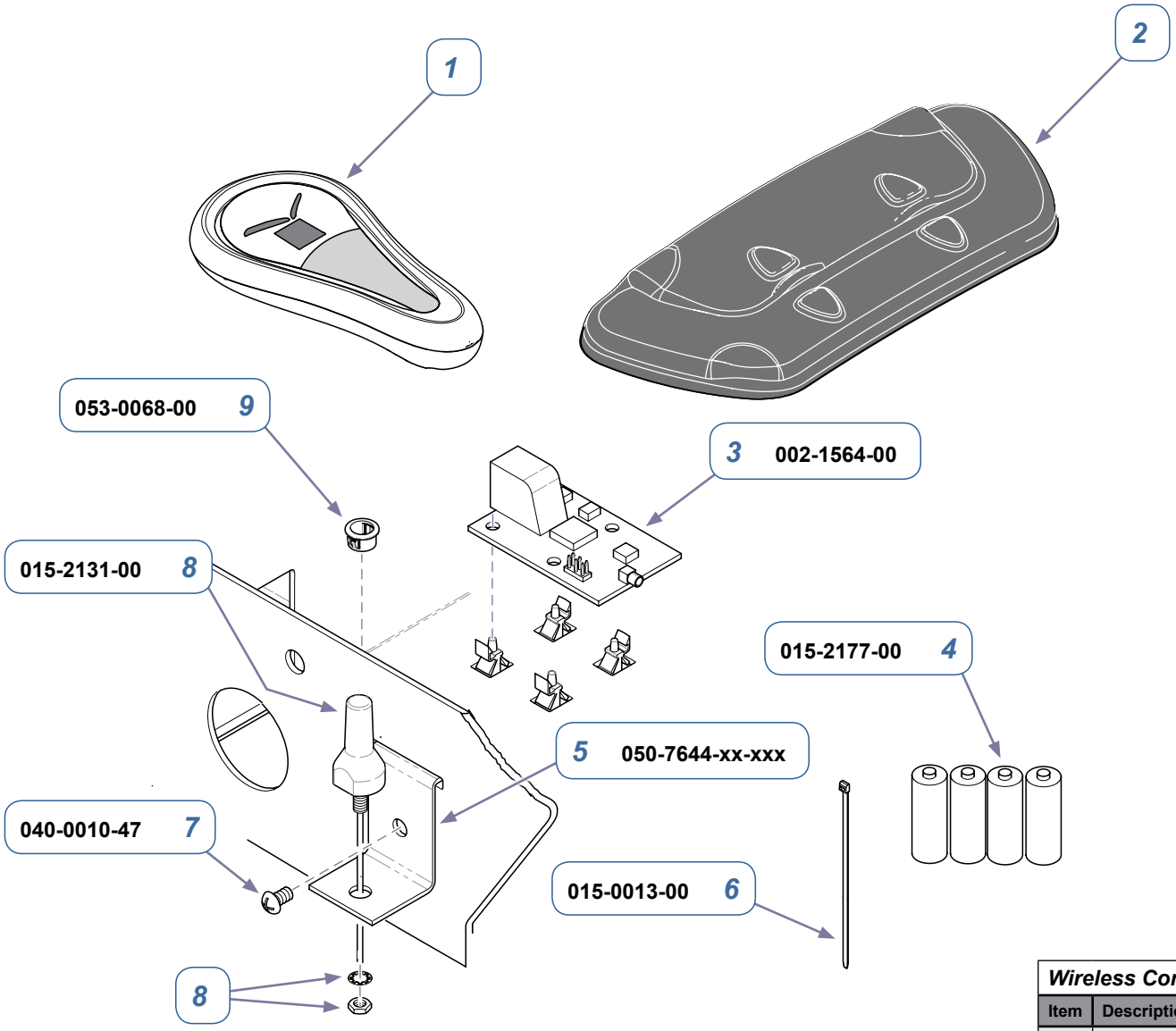
Always verify model & serial number



Wireless Controls		
Item	**Description**	**Qty.**
1	Refer to: *Wireless Hand Control*	1
2	Refer to: *Wireless Foot Control*	1
3	Base Station PC Board	1
4	Batteries *(size: AA)*	4
5	*Antenna Bracket*	1
6	Cable Tie	1
7	Screw *(#10-24 x 3/8")*	1
8	Antenna *(includes wire, lockwasher, & nut)*	1
9	Snap Bushing	1

Models:	***625-003***	
Serial Numbers:	*V968528 thru V1266165*	

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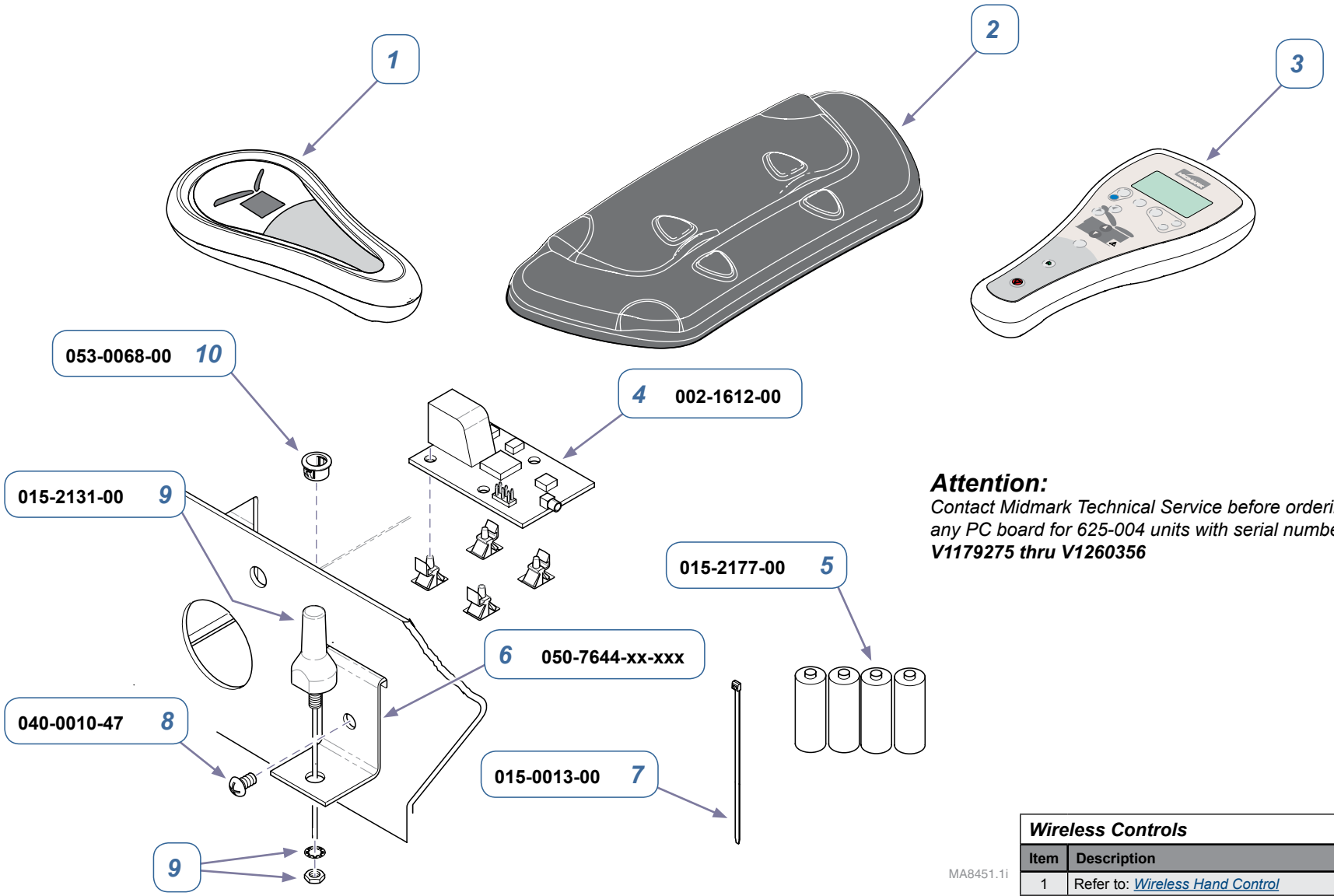

MA8451.1i

Attention:
Contact Midmark Technical Service before ordering any PC board for 625-004 units with serial numbers ***V1179275 thru V1260356***

Wireless Controls		
Item	**Description**	**Qty.**
1	Refer to: *Wireless Hand Control*	1
2	Refer to: *Wireless Foot Control*	1
3	Refer to: *Wireless Hand Control (w/ Scale)*	1
4	Base Station PC Board	1
5	Batteries *(size: AA)*	4
6	*Antenna Bracket*	1
7	Cable Tie	1
8	Screw *(#10-24 x 3/8")*	1
9	Antenna *(includes wire, lockwasher, & nut)*	1
10	Snap Bushing	1

Models:	***625-003***	***625-004***	
Serial Numbers:	*V1266166 thru present*	*all*	

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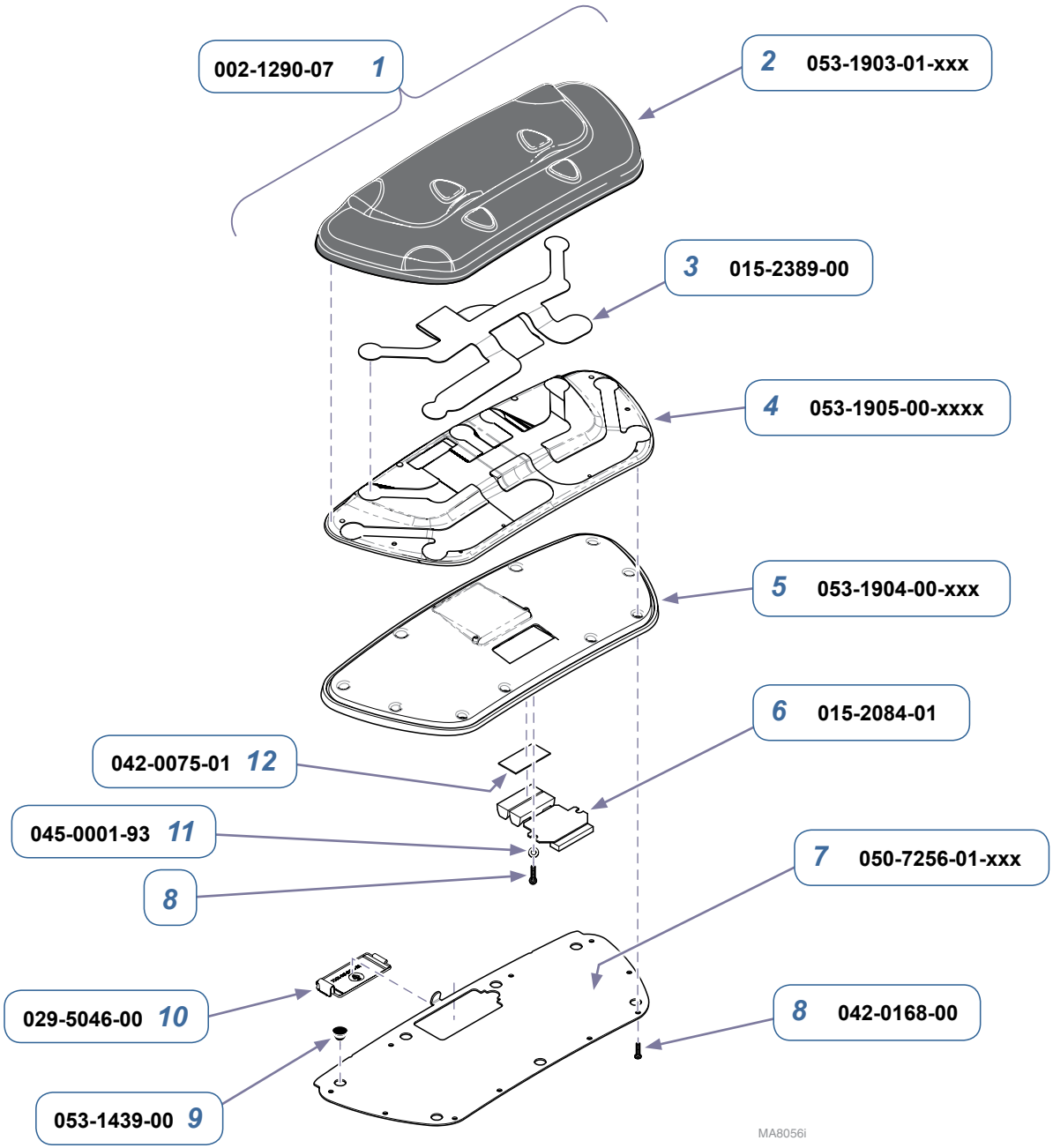
Always verify model & serial number



Models:	625 (-003 /-004)	
Serial Numbers:	all	

Wireless Foot Control Assembly

Item	Description	Qty.
1	Foot Control Assembly *(incl. items 2 thru 12)*	1
2	• Keypad	1
3	• Switch Membrane	1
4	• Retainer	1
5	• Base	1
6	• PC Board / Battery Holder Assembly	1
7	• Baseplate	1
8	• Screw	12
9	• Stem Bumper	7
10	• Battery Access Cover	1
11	• Nylon Washer *(#6)*	2
12	• Tape	2 in.

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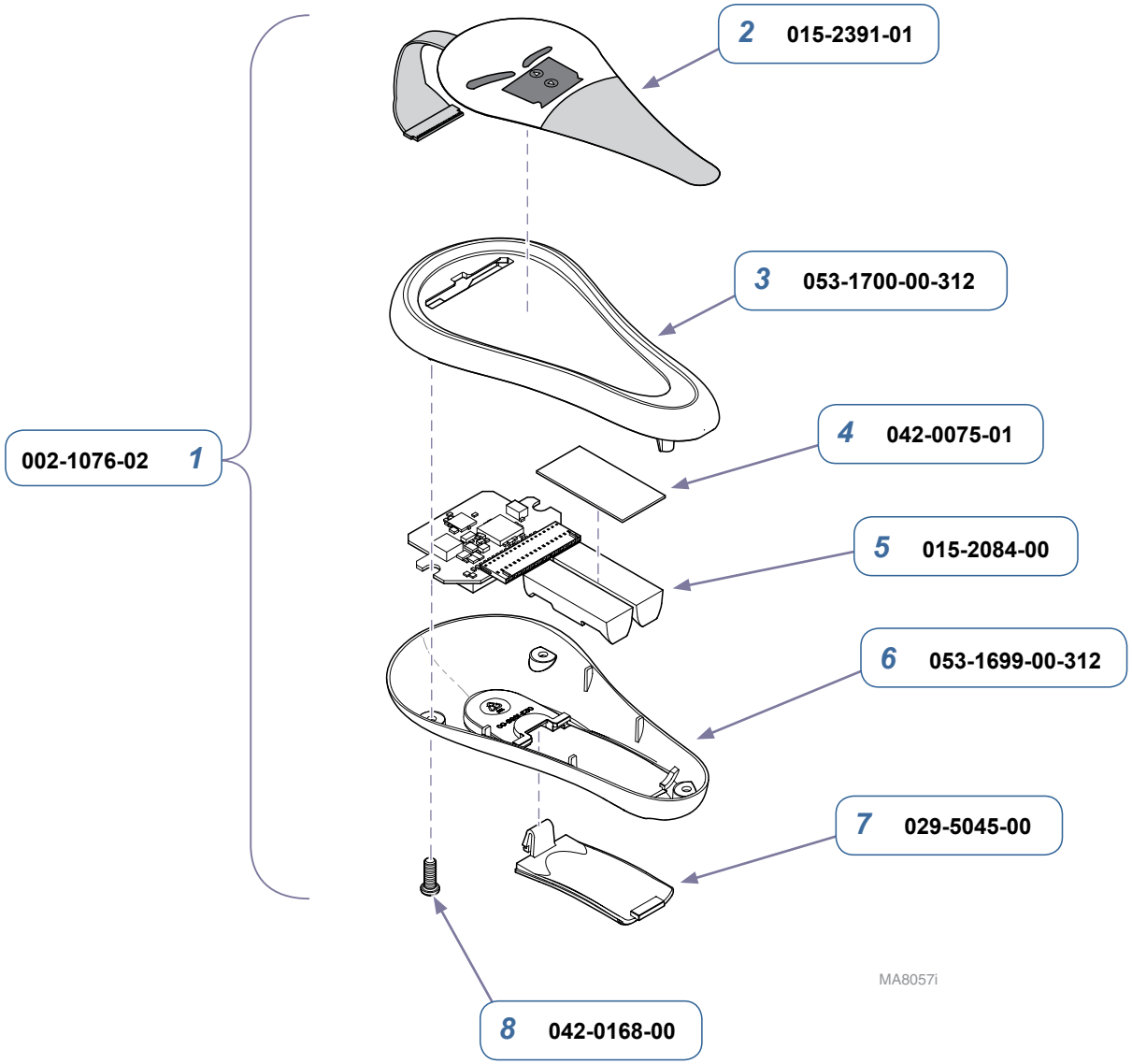
Always verify model & serial number



Wireless Hand Control Assembly

Item	Description	Qty.
1	Hand Control Assembly *(incl. items 2 thru 8)*	1
2	• Switch Membrane	1
3	• Housing - Top	1
4	• Tape	1
5	• PC Board / Battery Holder Assembly	1
6	• Housing - Bottom	1
7	• Battery Access Cover	1
8	• Screw	4

Models:	***625 -003***	
Serial Numbers:	*all*	

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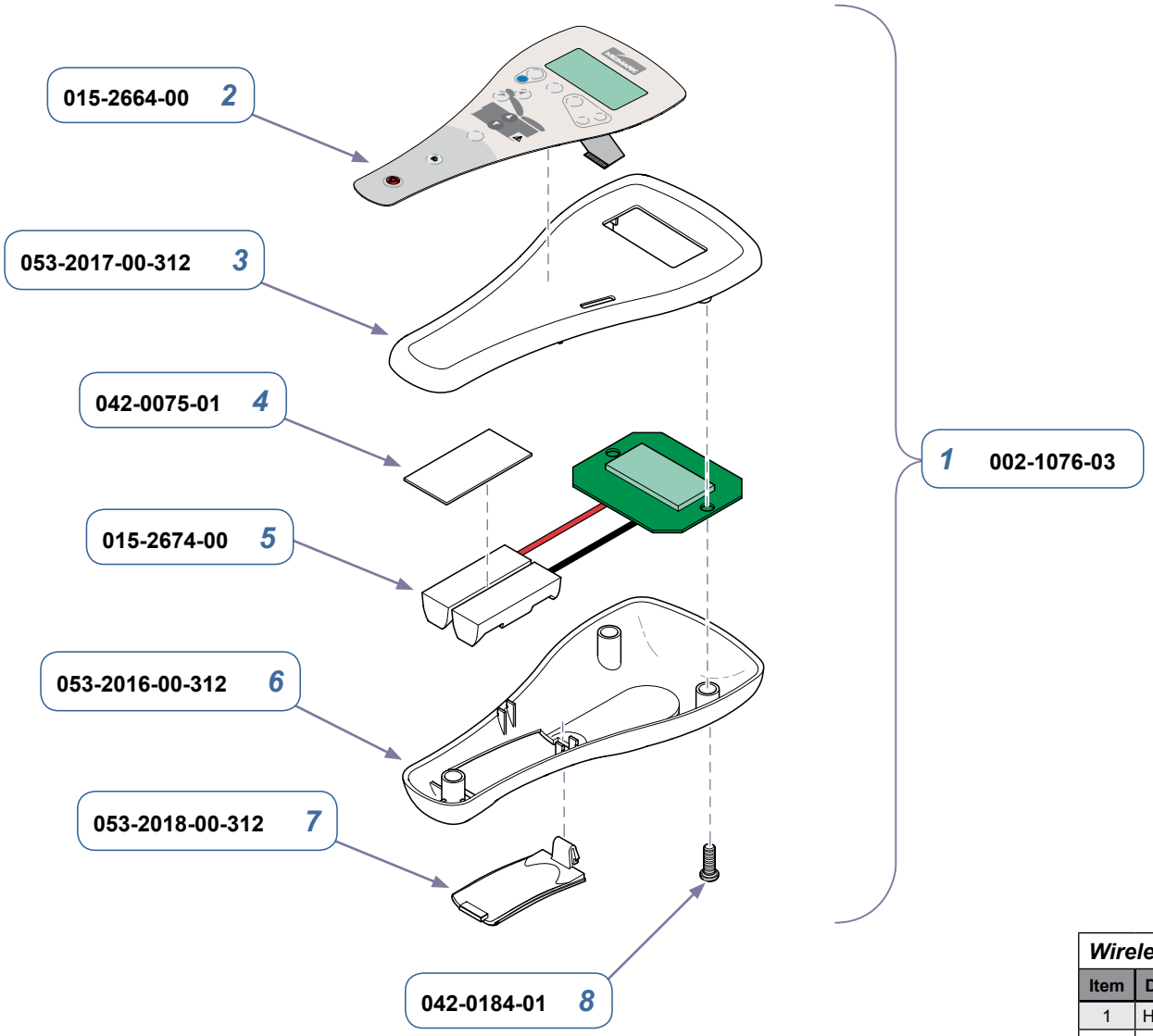
Always verify model & serial number



MA8304i

Wireless Hand Control w/ Scale Assembly		
Item	**Description**	**Qty.**
1	Hand Control Assembly *(incl. items 2 thru 8)*	1
2	• Switch Membrane	1
3	• Housing - Top	1
4	• Tape	1
5	• PC Board / Battery Holder Assembly	1
6	• Housing - Bottom	1
7	• Battery Access Cover	1
8	• Screw	3

Models:	***625-004***	
Serial Numbers:	*all*	

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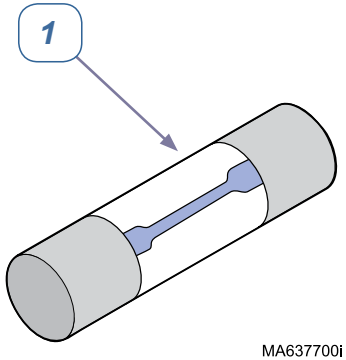
Always verify model & serial number



MA637700i

Fuse:	Location:	Function affected	Rating	Midmark Part Number
Isolation Transformer Fuses (2)	IEC Inlet	Electrical Receptacle	6.3A, 250V, Slo-Blo, 5 x 20 mm	015-0346-20
Primary Fuses (2)	Main PC Board [F1 & F2]	Base & Back Functions	10A, 250V, Slo-Blo, 5 x 20 mm	015-0346-42
Transformer Fuse	Main PC Board [F3]	Base & Back Functions	160mA, 250V, Slo-Blo, 5 x 20 mm	015-0346-38
Base & Back Motor Fuse	Main PC Board [F4]	Base & Back Functions	6.3A, 250V, Slo-Blo, 5 x 20 mm	015-0346-40
Drawer Heater Fuses (2)	Distribution Board	Drawer Heater	800mA, 250V, Slo-Blo, 5 x 20 mm	015-0346-25
Transformer 230V / 115V *(Export models only)*	IEC Inlet	All	6.3A, 250V, Slo-Blo, 5 x 20 mm	015-0346-20

Models:	***625***	
Serial Numbers:	*all*	

Fuses		
Item	**Description**	**Qty.**
1	*Refer to chart for detailed descriptions*	-

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Always verify model & serial number

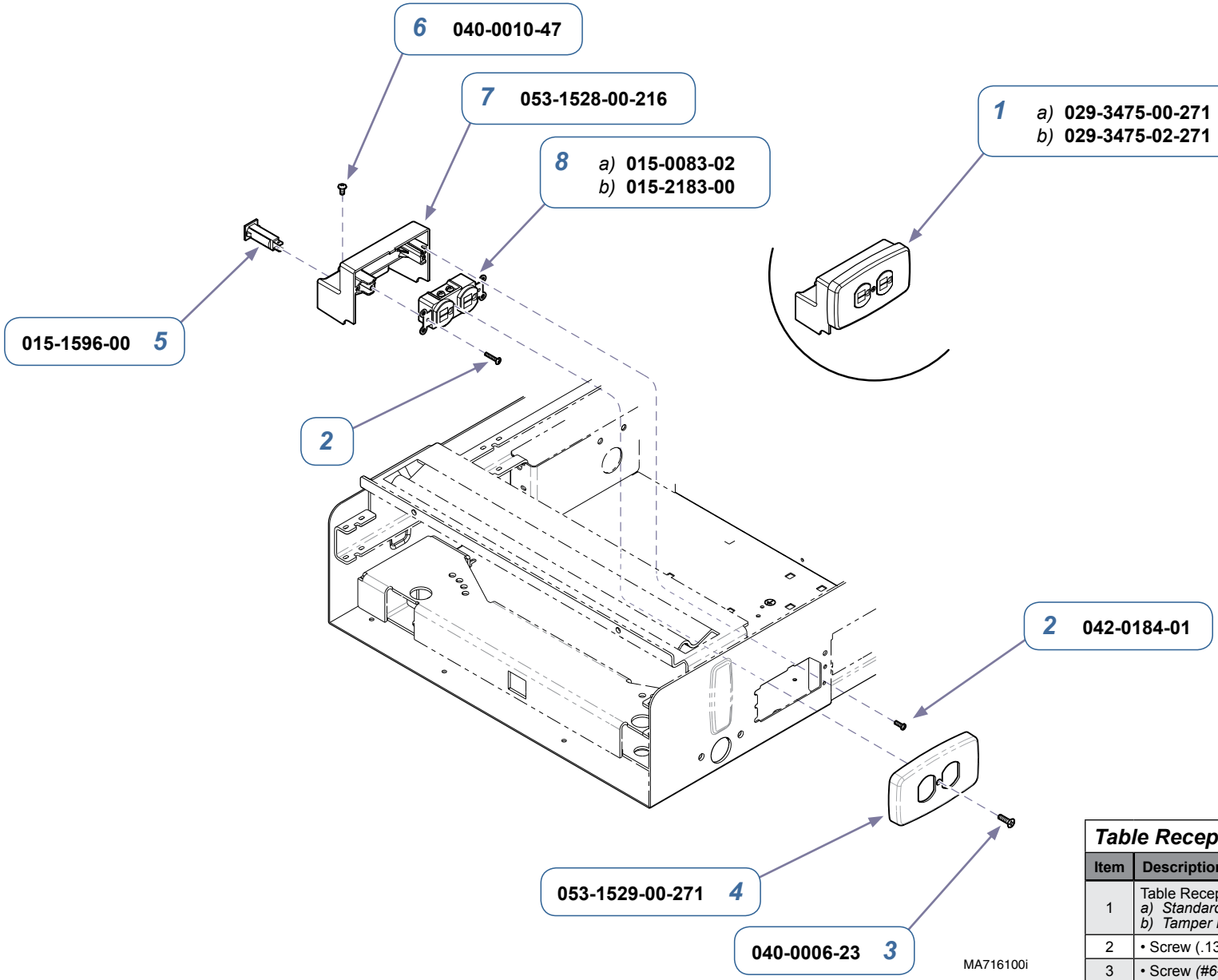

Table Receptacle System		
Item	**Description**	**Qty.**
1	Table Receptacle Assy *(includes items 2 thru 8)* *a) Standard Receptacle (black)* *b) Tamper Resistant Receptacle (white)*	1
2	• Screw (.138-32 x 1/2")	4
3	• Screw *(#6-32 x 1/2")*	1
4	• Receptacle Cover	1
5	• Circuit Breaker *(5 amp)*	2
6	• Screw *(#10-24 x 3/8")*	1
7	• Circuit Breaker Housing	1
8	• Duplex Receptacle: *a) Standard (black)* *b) Tamper Resistant (white)*	1

Models:	***625 (-001 /-003)***	
Serial Numbers:	*V2200 thru V1149713*	

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Always verify model & serial number

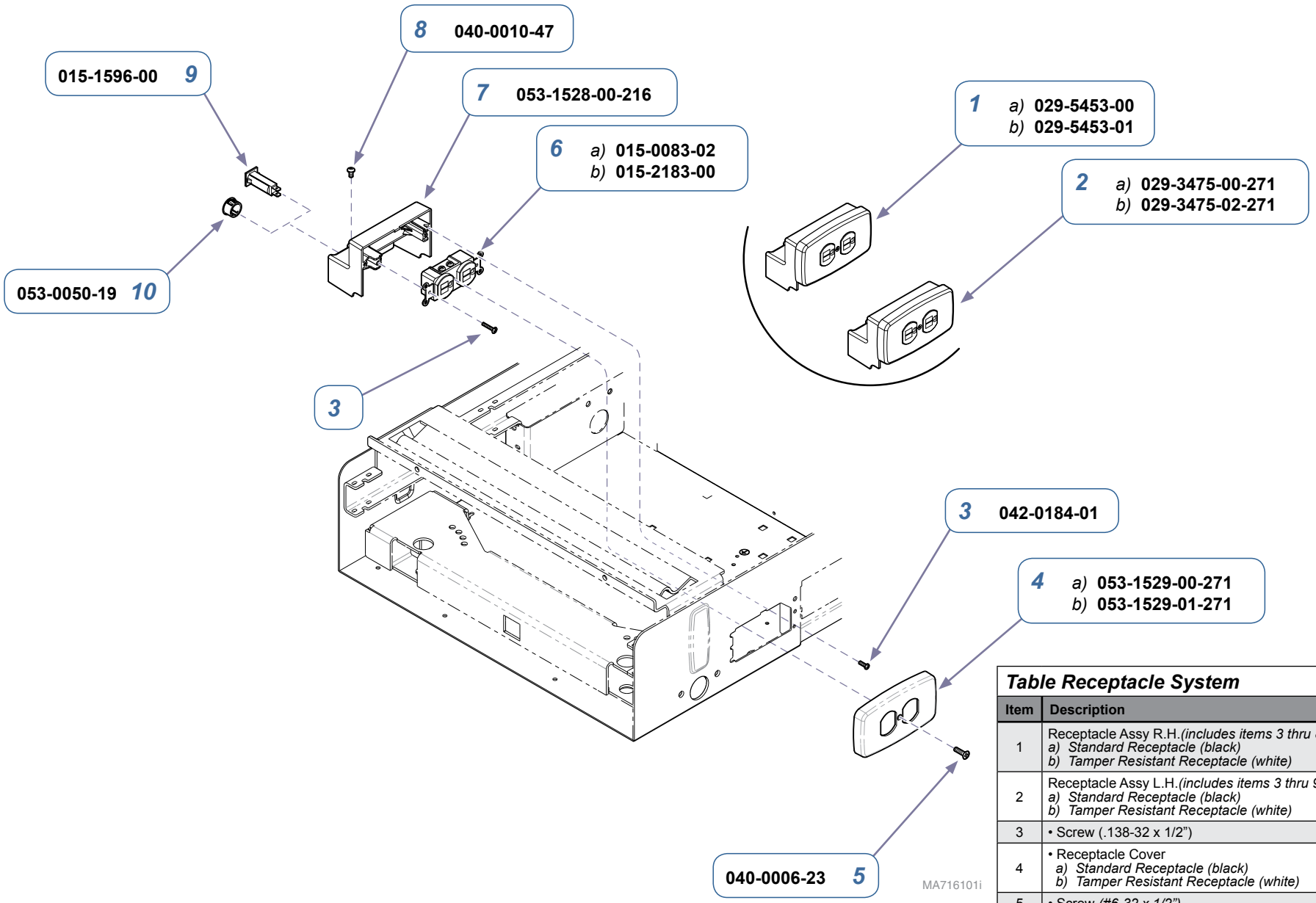

Table Receptacle System

Item	Description	Qty.
1	Receptacle Assy R.H.*(includes items 3 thru 8 & 10)* *a) Standard Receptacle (black)* *b) Tamper Resistant Receptacle (white)*	1
2	Receptacle Assy L.H.*(includes items 3 thru 9)* *a) Standard Receptacle (black)* *b) Tamper Resistant Receptacle (white)*	1
3	• Screw (.138-32 x 1/2")	8
4	• Receptacle Cover *a) Standard Receptacle (black)* *b) Tamper Resistant Receptacle (white)*	2
5	• Screw *(#6-32 x 1/2")*	2
6	• Duplex Receptacle: *a) Standard (black)* *b) Tamper Resistant (white)*	2
7	• Circuit Breaker Housing	2
8	• Screw *(#10-24 x 3/8")*	2
9	• Circuit Breaker *(5 amp)*	2
10	• Hole Plug	2

Models:	***625 (-001 /-003)***	
Serial Numbers:	*V1149714 thru Present*	

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Always verify model & serial number

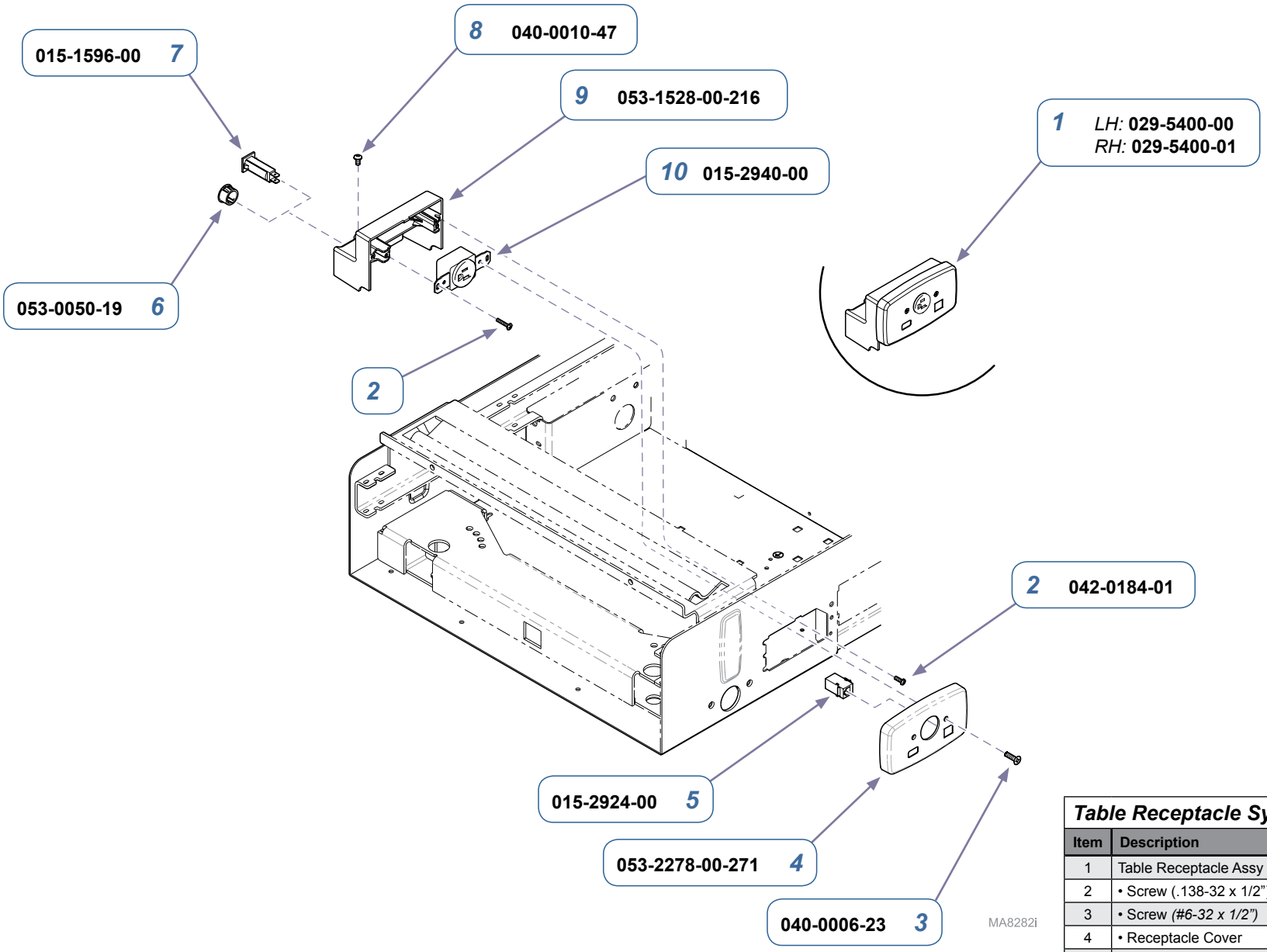

Table Receptacle System		
Item	**Description**	**Qty.**
1	Table Receptacle Assy *(includes items 2 thru 8)*	2
2	• Screw (.138-32 x 1/2")	8
3	• Screw *(#6-32 x 1/2")*	4
4	• Receptacle Cover	2
5	• Serial Coupler Port	2
6	• Hole Plug	2
7	• Circuit Breaker *(5 amp)*	2
8	• Screw *(#10-24 x 3/8")*	2
9	• Circuit Breaker Housing	2
10	• Simplex Receptacle	2

Models:	***625-004***
Serial Numbers:	*all*

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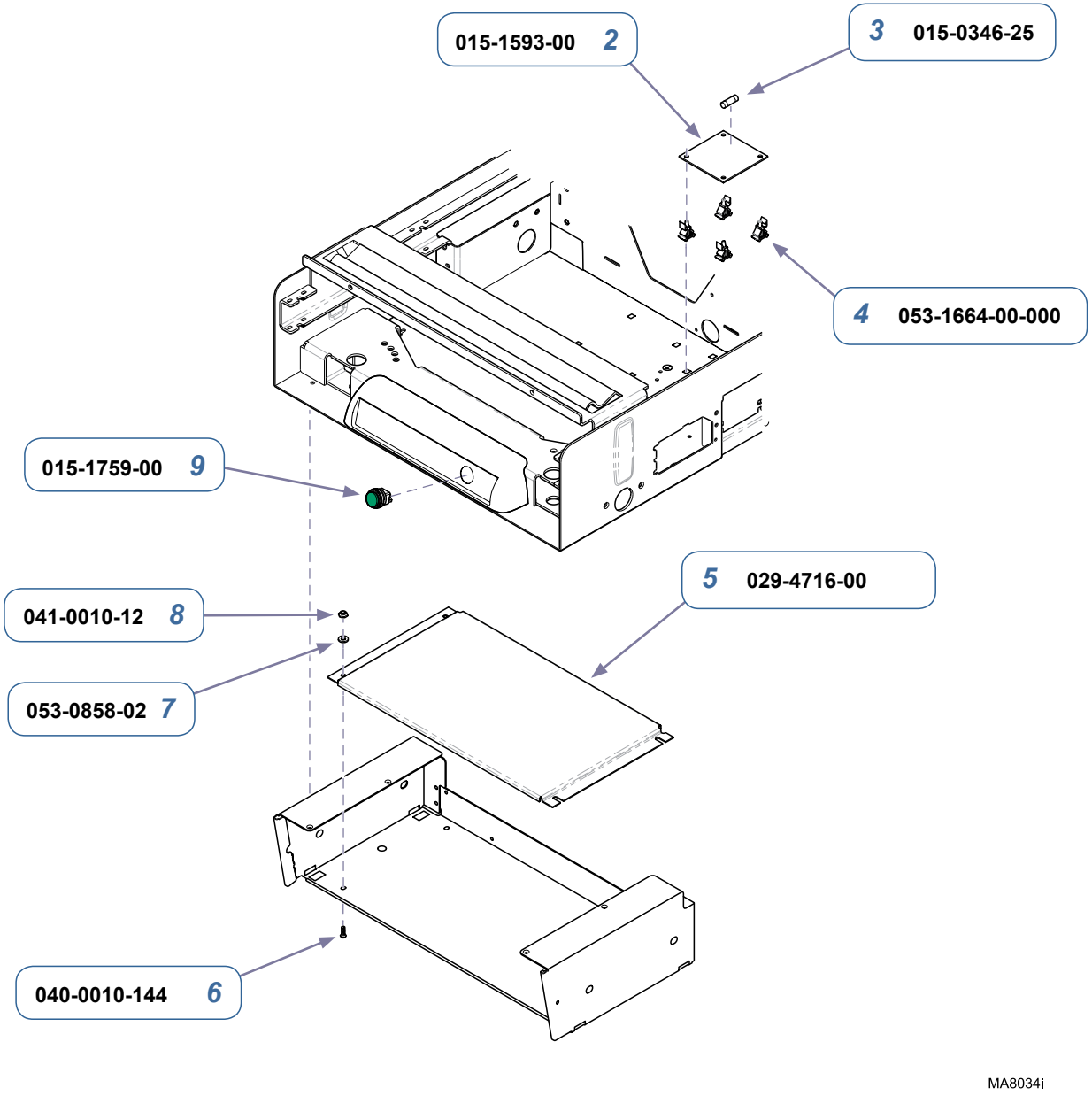
Always verify model & serial number



Drawer Heater System

Item	Description	Qty.
1	*Drawer Heater Assy. (includes items 2 thru 11)*	1
2	• Distribution Board *(includes item 3)*	1
3	•• Fuse *(800mA, 250V, Slo-Blo, 5 x 20mm)*	2
4	• PC Board Standoff	4
5	• Heater Plate Assembly *(incl. items 6 thru 8)*	1
6	•• *Screw (10-32 x 1/2")*	4
7	•• Nylon Washer	4
8	•• Nylon Nut	4
9	• Drawer Heater Switch	1

Models:	***625 (-001 /-003 /-004 /-006)***	
Serial Numbers:	*all*	

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Always verify model & serial number

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