



Midmark® Manual and Power Exam Tables New Parts to fit 100 Series and 411 (75L)

By Neil Blagman & Chris Jacobs, RPI Product Development

In response to many of our customers requesting more new parts to fit the dependable, and hard working Midmark exam tables, we have good news for you. RPI is proud to introduce more of the parts you need to maintain these tables in their peak operating condition.

The Manual Exam Tables – Model 100 Series. In addition to the cylinders, capacitors, hoses, and electrical components that RPI already carries

on the system’s pump, and the Union Tee Fittings that connect both the power and return hose lines for all cylinders.

The Power Exam Tables – Models 411 (75L). We have just two words for you – Actuators and Capacitors. That’s right. RPI now offers the Foot, Back, Tilt, and Base Actuators to fit the Model 411. But RPI did not stop there! We also have the replacement Capacitors for each of the Actuators.

And we offer the Base and Coupler Kit to fit the Foot, Back, and Tilt Actuators. It is one-stop shopping at RPI!

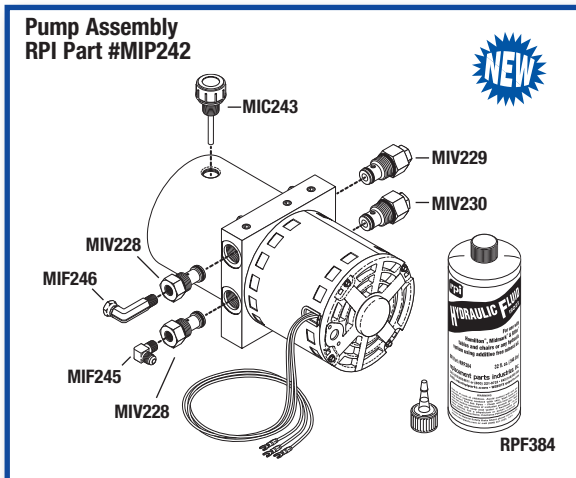
These new parts are in addition to all of the other parts we already carry to fit these models including the Interface PC Board, Motor Coupler, Coiled Cord, Capacitor Caps and Mounting Bracket, along with the Hand Control and

Program Panel, Limit Switch, Sound Damping Composite, and many other parts you need when servicing this equipment.

RPI Tools to Help You Get the Job Done Safely. Don’t forget that RPI offers two tools with your safety in mind – the Support Bar (RPI Part #MIT177) and the Pry Bar (RPI Part #MIT178). The table top of the Midmark 411 weighs several hundred pounds so it is extremely important that it is properly supported when servicing it – and these two

tools are exactly what you need to assist you. Both the Support Bar and Pry Bar are great tools. They are easily transported and can be stored with other service tools.

For a complete list of the new parts RPI has available to fit the Midmark exam tables, please see the center pages of this newsletter, or visit our website, www.rpiparts.com to see all of the parts, as well as valuable technical information about servicing these tables.



to fit the 100 and 300 series tables by Midmark, RPI now carries more of the parts you need most, including the Pump Assembly, Shuttle Valve, Low and High Pressure Relief Valves as well as the the Filler Cap for the pump’s reservoir, along with the Motor Mount Kit that includes serrated flange nuts.

What’s more, the Anti-Cavitation Valve, its Repair Kit, and Coil are all available. RPI also carries the Elbow Fittings for the Anti-Cavitation Valve, the Swivel Fittings that you will find

Actuator (Foot)
RPI Part #MIA215

Capacitor also available!

Actuator (Back)
RPI Part #MIA216

Capacitor also available!

Actuator (Tilt)
RPI Part #MIA218

Capacitor also available!

Actuator (Base)
RPI Part #MIA217

Capacitor also available!



*Ira Lapidés
CEO & President
Replacement Parts Industries, Inc.*

FROM THE DESK OF THE PRESIDENT

Starting in July you will notice something different about RPI. The most obvious change will be that our forms will have a new look. Packing slips, invoices, statements and everything else will look very different as a result of our converting to a new enterprise software program.

We will be making this software conversion after 30 years or so on our old software, which was updated and patched and modified countless times over the years. It finally came to a point where we had to make the change or risk major issues with that old software.

We conducted an extensive search for software that would provide the structure to continue to operate RPI in the same excellent manner that we have for so many years, along with the flexibility to allow us to continue to adapt and innovate in areas like customer service and product development. With this new software we also needed to be sure we had excellent support from our vendor, and we found that with Syspro, an enterprise software system that has been in use worldwide for many years.

Over the past 7 months, we have been working quite hard to get everything in our new software set up correctly, with countless hours in training to be sure we know how to use it properly. It is still quite a learning process, so bear with us as we begin using our new software in July, but in the end it will be a much better resource for us to help serve you better.

A couple of significant improvements include integration with our website so that orders placed on our site go straight into the new software's sales order system. In the past, we had to re-enter website orders on the old software. In addition, we can now more easily email invoices to you, so if you prefer that method, please send us an email to let us know.

Our credit card processing will also be improved with an integrated credit card processing function. We will also be able to keep better track of multiple contacts within your organization.

This was a huge decision for us, and probably our biggest and most expensive project ever. We spent many months researching various software packages looking for the right software and the right vendor who we could count on for support. We still have much to learn and that will take some time, but we are confident in the end this will be a great improvement for us and for you.

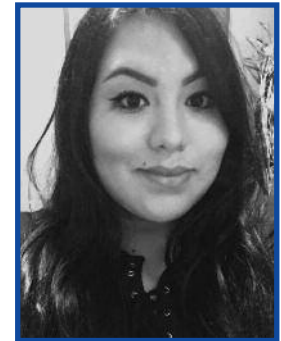
THE RPI FAMILY

Hello, my name is Mariana Rodriguez.

I have lived in the San Fernando Valley as long as I can remember. I graduated from San Fernando High School and married my high school sweetheart.

Family means everything to me. I am the oldest of seventeen grandchildren, so family gatherings are always fun and there is always someone to talk to.

I am part of RPI's Customer Service Team. I was lucky enough to join RPI in January 2014. It's a pleasure to work for a company that cares so much for their customers and employees. Our customers are super nice and it makes work easier for me.



*Mariana Rodriguez
Customer Service*

In my spare time, I enjoy traveling, learning about different cultures and trying different foods. I plan to visit Thailand in the near future so I can walk along the beautiful beaches, take a boat ride, and visit the elephant nature park.

My main priority is spending time with my handsome one year old baby boy. Being a mom is the best thing in the world for me. From the first time I felt him kick inside my womb to the day he took his first steps. I love to see him smile.

It's amazing how one little person can change someone's whole life around. Even my television channel list changed from action movies to cartoons.

We like spending time at the park and going out for walks. Watching him grow inspires me to work even harder.

Quick Tip When Servicing Dental Vacuum Units

Anti-Syphon Valve Repair Kits ...

Easy Way to Identify Which Kit Is Needed

By Mark Micucci
RPI Product Development

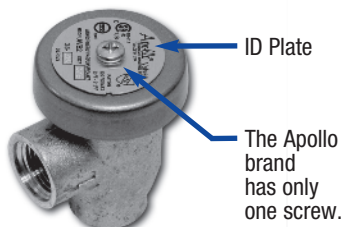
The RPI Anti-Syphon Valves RPI Part #'s VPV007 & VPV021), that fit various dental vacuum units, are manufactured by Apollo Industries.

But because RPI carries Anti-Syphon Repair Kits for both the Apollo and the Watts valves, a few of RPI's customers have confused these valves and have ordered the wrong repair kit for the valve they are servicing.

So here's a tip on how to identify which Repair Kit is needed. Both the Apollo and Watts Anti-Syphon have the same outward appearance so the only two ways to identify these valves is by reading the ID plate located on the top of the mushroom cap or by noticing how many screws hold the mushroom cap onto the valve body. One retaining screw is used on the Apollo brand while the Watts brand uses two retaining screws.

So, before you order your next Anti-Syphon Valve Repair Kit, take a moment to use this helpful tip, and note which valve you have, so that we can ship you the Repair Kit you need.

Read the ID plate located at the top of the mushroom cap, or note the number of screws holding the cap onto the valve body.



TECH TALK Tuttnauer Door Bellows Stuck in the Locked Position And Now Pressure Is Building

By Chris Jacobs, RPI Product Development

Your Tuttnauer autoclave may have run a perfect cycle with zero pressure left in the machine, you go to spin the handle but it stops and you can't get the door open. Depending on the model (ie. a mechanical vs. an electrical machine) the door bellows could be stuck in the locked position and now pressure could be building behind the door making it impossible to open the door.

So what do you do? First thing is to ensure that the machine is not allowed to heat any longer by either powering the unit off or by unplugging the unit.

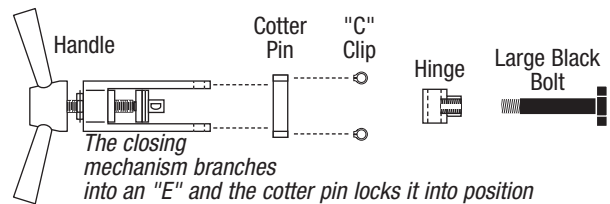
Now it's time to get a good look at the problem; so remove the cover to gain access to all the parts that are keeping the door closed. Reach inside the reservoir with a screwdriver and use it to pull the safety relief valve's key ring to relieve pressure inside the chamber. Remember the air coming out will be hot and if the chamber is still warm, pressure can build up again.

If the door will still not open, then you will want to look behind the door closing mechanism to locate a large black bolt (it is a 7/8 hex on most Tuttnauer autoclaves). This bolt is keeping the door closing mechanism in place (see illustration above). You can unscrew this bolt and literally slide the whole closing mechanism away from the door to open. At the very least, you can loosen this bolt enough to allow you to swing the closing mechanism away from the door bellows locking pin.

In some rare cases, if that does not work, you have one last option at your disposal. At the point where the closing mechanism meets the frame of the chassis you will see the closing mechanism branch into a "E". Locking the "E" into place is a cotter pin with an "C" clip. You can remove the "C" clip and use a rubber mallet to tap out the cotter pin.

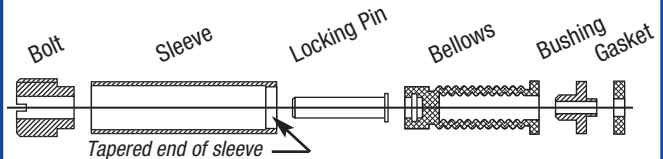
Door Closing Mechanism

There are several options available to open a chamber door that is locked in position due to pressure inside the chamber. Two of these options involve the large black bolt behind the door closing mechanism.



Door Bellows Housing

Note the correct order of the parts and the tapered end of the sleeve.



As a warning, if there is any pressure behind the door, you may damage the cotter pin in the process. That is why this is considered a last resort and shouldn't be used unless all else fails. Now that you have the door open you have only to contend with the door bellows itself.

The easiest way to get that out is simply unscrew the bellows housing bolt and then use compressed air on the hole on the interior of the door to force the bellows assembly out of the socket. Just use a rag or exam glove over the bellows housing to catch all the components.

See the "Door Bellows Housing" illustration above, and note that there are six parts to the bellows housing: the bellows, locking pin, brass bushing, gasket,

Continued on the back page

WHAT'S NEW

The following new parts are now in stock,



DENTAL EQUIPMENT Parts to fit Dentsply Cavitron® Ultrasonic Scalers

RPI Part #	OEM Part #	Description	BOBCAT® 25 KHz - G115	BOBCAT® Pro - G130	DualSelect™ System - G118	JET Plus™ - G132	JET with SPS™ - G120	Plus™ Scaler - G131	Prophy-JET® Polishing System - G122	Select™ Scaler 25K - G121	Select™ SPS™ 30K - G124	SPS™ Surface Mount Ultrasonic Scaler - G98a	SPS™ Ultrasonic Scaler - G119
ADC034	No OEM Part # Available	Uni-Clamp - 20/pkg	•	•	•	•	•	•	•	•	•	•	•
ADC035	No OEM Part # Available	Sleeve Clamp - 20/pkg	•	•	•	•	•	•	•	•	•	•	•
ADC058	No OEM Part # Available	Cord Clip - 10/pkg	•	•	•	•	•	•	•	•	•	•	•
ADS032	No OEM Part # Available	Polyflo Sleeve/Ferrule (1/4") - 25/pkg	•	•	•	•	•	•	•	•	•	•	•
DSA002	60367	Duckbill Filter Assembly			•	•	•	•	•	•	•	•	•
DSA008	63856	Hose Assembly & Filter (Air)			•	•	•	•	•	•	•	•	•
DSC017	No OEM Part # Available	Coil (Solenoid Valve)			•	•	•	•	•	•	•	•	•
DSF005	90158	Disc Filter (Water) - 10/pkg	•	•	•	•	•	•	•	•	•	•	•
DSH003	60388	Water Hose (Braided Blue)	•	•	•	•	•	•	•	•	•	•	•
DSH009	80786	Air Hose (Braided Gray)			•	•	•	•	•	•	•	•	•
DSK001	90172	Retrofit Water Filter Kit	•	•	•	•	•	•	•	•	•	•	•
DSK016	No OEM Part # Available	Solenoid Valve Repair Kit			•	•	•	•	•	•	•	•	•
DSK018	60367 (complete Assy.)	Repair Kit (Duckbill Filter Assembly)			•	•	•	•	•	•	•	•	•
DSK020	No OEM Part # Available	Solenoid Valve Repair Kit		•	•	•	•	•	•	•	•	•	•
DSK022	81167	Check Valve Kit		•	•	•	•	•	•	•	•	•	•
DSL024	No OEM Part # Available	Label (Air) - 3/pkg			•	•	•	•	•	•	•	•	•
DSL025	No OEM Part # Available	Label (Water) - 3/pkg	•	•	•	•	•	•	•	•	•	•	•
DSL026	No OEM Part # Available	Label (Caution) - 3/pkg	•	•	•	•	•	•	•	•	•	•	•
DST014	574335001, 61350	Transistor	•	•	•	•	•	•	•	•	•	•	•
DSV006	571070003	Solenoid Valve (Water)			•	•	•	•	•	•	•	•	•
DSV015	571070002	Solenoid Valve (Water)			•	•	•	•	•	•	•	•	•
DSV019	81258	Solenoid Valve (Water)		•	•	•	•	•	•	•	•	•	•
DSV023	629211001	Check Valve			•	•	•	•	•	•	•	•	•
RPA915	90088	Air Filter Assembly			•	•	•	•	•	•	•	•	•
RPC557	554102003	Hospital Grade Power Cord (13A @ 125VAC, 8 ft.)	•	•	•	•	•	•	•	•	•	•	•
RPC868	554102003	Hospital Grade Power Cord (13A @ 125VAC, 1.5 ft.)	•	•	•	•	•	•	•	•	•	•	•
RPC869	554102003	Hospital Grade Power Cord (13A @ 125VAC, 3 ft.)	•	•	•	•	•	•	•	•	•	•	•
RPE916	No OEM Part # Available	Filter Element			•	•	•	•	•	•	•	•	•
RPF524	557034018	Fuse (1/8A, 250V) 5mm x 20mm Time Delay - 5/pkg		•	•	•	•	•	•	•	•	•	•
RPF883	No OEM Part # Available	Polyflo Nut (1/4" Brass) - 5/pkg	•	•	•	•	•	•	•	•	•	•	•
RPF907	621066001	Luer Lock (Male x 5/32" Barb) - 10/pkg	•	•	•	•	•	•	•	•	•	•	•
RPF908	621065001	Luer Lock (Female x 5/32" Barb) - 10/pkg	•	•	•	•	•	•	•	•	•	•	•
RPF913	No OEM Part # Available	Polyflo Fitting (1/4" Tube x 1/8" MPT) - 5/pkg		•	•	•	•	•	•	•	•	•	•
RPF914	No OEM Part # Available	Adaptor (1/16" Barb x 1/8" MPT) - 5/pkg			•	•	•	•	•	•	•	•	•
RPF917	No OEM Part # Available	Polyflo Fitting (1/4" Tube x #10-32 Male) - 5/pkg			•	•	•	•	•	•	•	•	•
RPF922	60537	Fuse (630MA, 250V) 5mm x 20mm Time Delay - 5/pkg	•	•	•	•	•	•	•	•	•	•	•
RPF923	63827	Adaptor Elbow (1/16" Barb X 1/8" MPT) - 5/pkg	•		•	•	•	•	•	•	•	•	•
RPF942	623064002	Cross Fitting (1/8" Barb x #10-32 Male) - 5/pkg			•	•	•	•	•	•	•	•	•
RPF944	621068001	Adaptor Fitting (1/16" Barb x 1/8" Barb) - 10/pkg			•	•	•	•	•	•	•	•	•
RPF948	No OEM Part # Available	Adaptor (1/16" Barb x 1/8" MPT) - 5/pkg		•	•	•	•	•	•	•	•	•	•
RPF953	No OEM Part # Available	Polyflo Nut (1/4" Chrome) - 5/pkg	•	•	•	•	•	•	•	•	•	•	•
RP0342	62351	O-Ring (Black) - 12/pkg	•	•	•	•	•	•	•	•	•	•	•
RP0924	62605	O-Ring (Green) - 12/pkg	•	•	•	•	•	•	•	•	•	•	•
RPT296	No OEM Part # Available	Universal Sleeve Tool	•	•	•	•	•	•	•	•	•	•	•
RPT909	No OEM Part # Available	Braided Tubing (1/4" OD Blue) - per ft.	•	•	•	•	•	•	•	•	•	•	•
RPT910	No OEM Part # Available	Braided Tubing (1/4" OD Blue) (Box of 100 ft.)	•	•	•	•	•	•	•	•	•	•	•
RPT911	No OEM Part # Available	Braided Tubing (1/4" OD Gray) - per ft.			•	•	•	•	•	•	•	•	•
RPT912	No OEM Part # Available	Braided Tubing (1/4" OD Gray) (Box of 100 ft.)			•	•	•	•	•	•	•	•	•
RPT940	61963	Tubing (1/16" ID x 1/8" OD Clear Polyurethane) - per ft.			•	•	•	•	•	•	•	•	•
RPT941	625075001	Tubing (.107" ID x 3/16" OD Blue Polyurethane) - per ft.			•	•	•	•	•	•	•	•	•



TABLE TOP STERILIZERS Parts to fit SciCan® Stat/M® 2000, 5000 & G4 Series Cassette Autoclaves

SOLENOID VALVE

RPI Part #SCV064

OEM Part #01-100557S / 01-101628S

Models: Statim 2000, Statim 5000, Statim G4 2000 and Statim G4 5000

THERMOCOUPLE PLUG

RPI Part #RPP943

OEM Part # (No OEM Part # Available)

Models: Statim 2000, Statim 5000, Statim G4 2000 and Statim G4 5000

FROM RPI

ready to ship the day your order is received!



DENTAL EQUIPMENT Parts to fit Dental Vacuum Units

RPI Part #	Description	Air Techniques	Apollo/Midmark®	DentalEZ®/Custom Air/RamVac	Matrix/Midmark®	Midmark®	Pelton & Crane
RPT954	Belt Tensioner Tester			No OEM Part # Available		No OEM Part # Available	No OEM Part # Available
RPT959	Tubing (1/4" ID x 3/8" OD Clear Polyethylene)	54601			77002004	77002004	
VPA121	Drain Assembly	54660					
VPB096	Drive Belt					016-1055-00 & 2021110	
VPB097	Drive Belt					016-1056-00	
VPB098	Drive Belt			000273SP			
VPB099	Drive Belt			000274SP			
VPB100	Drive Belt			002035SP			
VPB101	Drive Belt			002027SP			
VPB102	Drive Belt			002034SP			
VPB103	Drive Belt			0002163SP			
VPB104	Drive Belt			0002164SP			
VPB105	Drive Belt			0002360SP			
VPC136	Solids Collector (1-1/2")	H5181 & H5216	PVC50700 & AVAVPF2		62937303	62937303	
VPK123	Tank Washout Kit				77008009 & 77002004	77008009 & 77002004	
VPK127	Pump Repair Kit					77001507	
VPK128	Brush Kit				77001506	77001506	
VPK137	Solids Collector Replacement Kit	H5217	AVA60031		77005169	77005169	
VPK138	Solids Collector Replacement Kit (Case of 8)	No OEM Part # Available	AVA60030		77005179	77005179	
VPL131	Synthetic oil (Mobil 1®)			No OEM Part # Available			
VPL132	Synthetic oil (Mobil 1®) (Case of 6)			380706			
VPL133	Oil-Syn Gearbox (1 Qt.)					064-0028-01	
VPL134	Oil-Syn Gearbox (Case of 12)					No OEM Part # Available	
VPS139	Screen (50 Mesh)	No OEM Part # Available	No OEM Part # Available		No OEM Part # Available	No OEM Part # Available	
VPS140	Screen (20 Mesh)	No OEM Part # Available	No OEM Part # Available		77005079	No OEM Part # Available	
VPV119	Check Valve (1")					014-0552-01	
VPV120	Check Valve (1-1/2")	54075				014-0551-00	
VPV122	Check Valve (1-1/2")	54139					



TABLE & CHAIRS (EXAM/SURGICAL) Parts to fit Midmark® • Ritter® 100, 300, 75 & Evolution 75 Series

RPI Part #	OEM Part #	Description	RPI Part #	OEM Part #	Description
MIC227	No OEM Part # Available	Coil (Anti-Cavitation Valve)	MIM224	014-0135-00	Manifold (Base Tee)
MIC243	014-0262-01	Filler Cap	MIP242	002-0444-00, 014-0035-00, 002-0127-00, 002-0133-00, & 014-0262-00	Pump Assembly
MIF244	014-0098-00	Union Tee Fitting (1/4" SAE-45" Flare)			
MIF245	014-0096-00	Elbow Fitting (1/8" MPT X 1/4" SAE-45")			
MIF246	014-0260-00	Elbow Fitting (1/8" MPT X 1/8" NPSF)	MIV228	014-0168-00	Shuttle Valve
MIF247	014-0045-00	Male Connector (1/8" MPT)	MIV229	014-0248-00	Pressure Relief Valve (Low)
MIK231	053-0051-00	Motor Mount Kit - 4/pkg	MIV230	014-0249-00	Pressure Relief Valve (High)
MIK233	No OEM Part # Available	Anti-Cavitation Valve Repair Kit	MIV232	002-0493-00 / 002-0038-00	Anti-Cavitation Valve
MIM222	014-0136-00	Manifold (Tilt Power)	RPT967	No OEM Part # Available	Spade Terminal (#8) - 20/pkg
MIM223	014-0137-00	Manifold (Return)			



TABLE & CHAIRS (EXAM/SURGICAL) Actuators and Capacitors to fit Midmark® • Ritter® 411 (75L)

Go to www.rpiparts.com for serial #'s these parts fit

ACTUATOR (FOOT)
RPI Part #MIA215
OEM Part #002-0495-00

ACTUATOR (BACK)
RPI Part #MIA216
OEM Part #002-0496-00

ACTUATOR (TILT)
RPI Part #MIA218
OEM Part #002-0498-00

ACTUATOR (BASE)
RPI Part #MIA217
OEM Part #002-0497-00

BRAKE & COUPLER KIT
RPI Part #MIK167
OEM Part #016-0237-00*
* OEM Part # is for the Brake only

CAPACITOR
RPI Part #MIC182
OEM Part #015-0437-04

CAPACITOR
RPI Part #MIC183
OEM Part #015-0437-03

CAPACITOR
RPI Part #MIC219
OEM Part #015-0437-02

CAPACITOR
RPI Part #MIC220
OEM Part #015-0723-03

Don't Forget
The Safety Tools!
Support Bar (RPI Part #MIT177)
Pry Bar (RPI Part #MIT178)



Sherry Lapidès
Vice President, Customer Relations
Replacement Parts Industries, Inc.

8 to 4
NO MORE

According to marketing guru, Steven McDonald (whose articles have been referenced and cited by Forbes, Inc., Huffington Post, Fortune and Entrepreneur), a company that is *customer-centric* is not just about offering great customer service, it means that the company offers a great experience from the awareness stage, through the purchasing process and finally through the post-purchase process. It's a strategy that is based on putting your customer first, and at the core of your business.

As one of the founders of RPI, I think back to those early years when we were developing our first business plan, mapping out the route we intended to take to build our company. At the forefront of our plan was our mission on how to take care of our customers. This came easy to us because we lived by one simple rule, "treat others as *you* would want to be treated".

I think of RPI's philosophy and our commitment to our customers for the past forty-four years. We have always offered excellent customer service, quality parts at a good price, and guaranteed them to your complete satisfaction.

I am proud to say that taking care of our customers (and I mean all of them, from the small one-person medical equipment repair shop to large dental service organizations to hospitals, medical centers, and the military) is still at the core of our business today.

At RPI, taking care of our customers starts with the people who work at RPI – at the top with a strong leader, and RPI has that in Ira as President and CEO; in our Customer Service and Accounting Departments where they are knowledgeable, helpful and courteous; in our Warehouse where attention to packaging and shipping is taken very seriously; in our Quality Control, Product Development and Purchasing Departments where they work together to ensure quality parts; and, in our Marketing Department where they keep the communication flowing, and introduce new and different ways to help our customers be successful.

RPI is customer-centric, and we always will be, especially with all of the amazing people we have working here at the company.

Why Do Midmark UltraClaves® Overheat?

By Neil Blagman, RPI Product Development

Table top sterilizers work by heating water into steam and confining the steam within the space of the chamber. The confined steam can then be further heated until the temperature and pressure reach those necessary to ensure sterility of any instruments and packs.

Table top sterilizers must be able to control the temperature that the instruments or packs are exposed to during the sterilization cycle to avoid melting delicate instruments and charring packs or wrappers.

The process used to control the temperature in a table top sterilizer differs from manufacturer to manufacturer but in general can be broken down into either controlling the temperature of the steam using a temperature probe or controlling the pressure of the steam with a bellows or pressure transducer.

The Midmark UltraClave M9 and M11 models use a temperature sensor located in the lower rear of the chamber and a pressure transducer located on the control PC board. An additional sensor is located on the outside of the chamber next to the heating element bushings and acts as an overheat switch.

The Midmark UltraClave was manufactured in two versions (an "old style" and a "new style") which generate different error codes for overheat and over temperature conditions but the causes and remedies for these errors are very similar. The UltraClave Error #006 ("old style") (C543 "new style") indicates that the sterilizers internal temperature exceeded 277°F.

Frequently caused by a small pressure leak, this error will occur most often towards the end of the sterilization cycle and is more likely seen in the extended cycles used for wrapped instruments and packs.

The most frequent repairs for this error in the "old style" UltraClaves are: 1) a leaking vent valve allowing steam to exit the chamber and return through the condensing coil back into the reservoir; 2) A bellows or steam trap in the "old style" UltraClave or an air valve in the "new style" UltraClave that is allowing too much steam to escape from the chamber; 3) a door gasket leak; 4) a leaking safety valve; 5) a leak at the gaskets sealing the heater bushings; 6) A damaged or lime scale coated temperature probe; or, 7) a controller PC board that is out of calibration or damaged.

Continued on the back page

Belmont Clesta® Front Shield Cracking

By Mark Micucci
RPI Product Development

Now and then RPI will have a customer return a Belmont Clesta Front Shield (RPI Part #BES044) for cracking right after install. These cracks are curved and radiate out from the center opening towards the right side lens mount (see Figure 1 below). The reason for these cracks is an incorrect installation of the front shield.

Note that the original front shield for the Clesta light was a "flat pancake" style. This flat front shield mounted between two tangs on the outside of the lamp cover using two screws through the front shield into the bottom of the lamp cover.

Belmont changed the shape of the front shield from a flat pancake to a domed pie pan style. With this new style, you no longer mount the shield between the two tangs. This new domed pie pan style shield now sits higher up the side of the lamp cover than the flat pancake style did.

Beware! If you install the domed pie pan style shield between the two tangs and then secure it to the lamp head, you will over stress or flex the shield then after a few uses of heating and cooling, the stress cracks appear. Figure 1 below shows a misinstalled shield and the stress cracks that it causes. Figure 2 below shows a correct installation of the domed pie pan style shield where the shield floats below the two tangs (*not between the two tangs*).

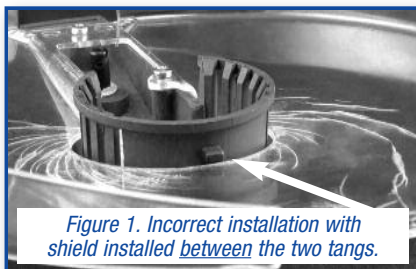


Figure 1. Incorrect installation with shield installed between the two tangs.

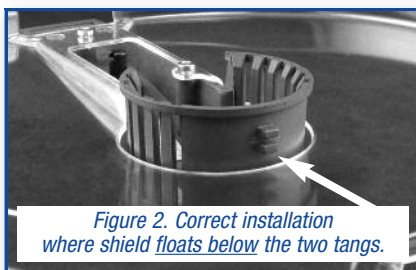


Figure 2. Correct installation where shield floats below the two tangs.

Long Awaited Solenoid Valve To Fit SciCan STATIM® ... Now In Stock!

RPI now has in stock the replacement Solenoid Valve to fit the Statim 2000 and 5000 series cassette sterilizers. The new RPI Solenoid Valve has been constructed to be a direct replacement for the OEM valve and is offered under RPI Part #SCV064. The RPI Valve includes: Push-in Elbow Fitting (RPI Part #RPF363), Male Connector (3/16") (RPI Part #RPF227) and (5 pieces) Cable Ties (RPI Part #RPT083). The Coil and the Repair Kit will fit both the RPI Valve and the OEM Valve, and still have the same RPI #s; Solenoid Valve Coil (RPI Part #SCC005) and the Solenoid Valve Repair Kit (RPI Part #SCK003). Many of you have been asking for replacement parts for the Statim G4 series cassette sterilizers. So we did some homework and now you can search on the RPI website by model G4 2000 and G4 5000 or even create a parts list. Many of our existing parts cross over to the G4 series cassette

More Lamps From RPI For Phototherapy Lights!

The treatment of physiologic jaundice or hyperbilirubinemia is a common occurrence in the modern NICU. Phototherapy, a special light treatment, is used to help break down the circulating excess bilirubin. Phototherapy is conducted with a lamp called a bili-light or with a specialized bili-blanket. RPI is pleased to announce that we now sell the lamp assembly for the GE Biliblanket Plus and Biliblanket Plus High Output under the RPI Part #LMP028. Sold in a box of 6 pieces the LMP028 includes the attached wires and connector necessary to easily install the lamp in the lamp holder. RPI has also introduced to our inventory the Solarc™ metal halide lamp for the GE Giraffe Spot PT Lite under RPI Part #LMP029 as well as the specialized ballast specified for the Solarc bulb as RPI Part #OMB061. If you have any questions about RPI parts for phototherapy lights please check out the infant incubator, warmers and phototherapy light section of the catalog and the Infant Care Equipment tab on our web site or contact the technical support department to speak with a technician directly.

Introducing New Parts to fit Midmark UltraClave® M9/M9D/M11/M11D

RPI is pleased to introduce new parts to fit the M9, M9D version -020 thru -022 and M11, M11D version -020 thru -022 Ultraclave tabletop sterilizers. Here they are! Main Wire Harness (RPI Part #MIH238) that is terminated with a 6 pin connector and connects the over temperature switches, the cooling fan, the incoming AC line voltage and the case ground to the control PC board. This cable should be examined for oxidized contacts whenever any major components are replaced. Also available is the new style Steam Block to fit the M9, M9D version -020 thru -022 (RPI Part #MIK236) as well as the Steam Block to fit the M11, M11D version -020 thru -022 (RPI Part #MIK237). Included with each of the new Steam Blocks is the Snap Clip (RPI Part #RPC957) which is also available in a package of 10 pieces. And don't forget that the Printer Cartridge (RPI Part #MIC226) that fits the M9 and M11 is also available. Visit our website www.rpiparts.com and select the "Create A Parts Listing" option (under the Tech Support tab) to generate a list of all the RPI parts available for any piece of supported equipment.



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Why Do Midmark UltraClaves Overheat?

(Continued from page 6)

The UltraClave error #001 ("old style") (C980, C983 or C984 "new style") indicate that the over temperature switch located on a bracket next to the heater bushings has opened becoming non-conductive. In the "old style" UltraClave opening, the over temperature switch will completely cut off the main power supplied to the sterilizer.

While the 001 error could indicate a loss of power within the facility or at the wall outlet, if this possibility can be easily eliminated the 001 error then suggests that the exterior of the chamber has been heated to over 295°F.

This overheat condition would suggest the possibility of a: 1) massive leak such as a stuck open steam trap or bellows; 2) failure of the over temperature switch; 3) failure of the water delivery system leading to the sterilizer trying to run completely dry. (Also note that an indicator of an UltraClave that has over heated is a melted dam gasket.)

The failure of the "old style" UltraClave to fill with water is most frequently traceable to a shorted water level sensor. The shorted water level sensor fools the control PC board into believing water has filled the chamber and the sterilizer will proceed immediately from fill to sterilize without any time taken up by the fill part of the cycle.

This error can be corrected by replacing the Water Level Sensor (RPI Part #MIS075) ensuring that the water level sensor is insulated from the chamber and not leaking water when under pressure. If the water level sensor is not shorted to the chamber and the error continues to appear look at replacing the control PC board.

In the "new style" UltraClave error code C980 would indicate the failure to deliver water to the chamber due to a shorted water level sensor (RPI Part #MIS075), a defective over temperature switch (RPI Part # MIS093) or a bad control PC board.

The error codes C983 or C984 would indicate a slow leak within the system. The most likely place for a slow leak would be at the vent valve, the air valve, the door gasket, safety relief valve or the gasket sealing the heater bushings.

Overheat or over temperature errors are very common reasons for service calls on the Midmark UltraClave but with a little education these error codes are easily diagnosed and corrected.

This article was not intended to be a comprehensive review of all possible error conditions in the UltraClaves so if you need more detailed knowledge about the Midmark UltraClave or if you want to discuss your experience with servicing the Midmark sterilizers feel free to contact our technical support department here at RPI to talk to one of our engineers.

Tuftnauer - Door Bellows Stuck in Locked Position

(Continued from page 3)

bellows sleeve and the bellows housing bolt. The illustration on page 3 will give you the correct order that the parts must go in. One of the most crucial things to remember is the direction of the bellows sleeve. One side is actually tapered, making it thicker internally on one end than the other. The thicker end must slide in first to leave the thinner side to accommodate the housing bolt.

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