

# YOUR GUIDE TO MAINTAINING

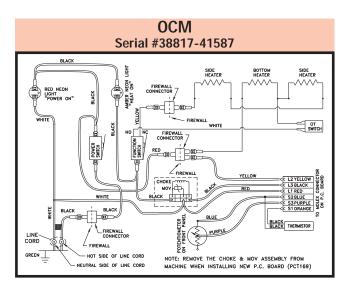
THE PELTON & CRANE OCM, OCR & OCR + STERILIZERS
Replacement Parts Industries, Inc. is pleased to present this valuable work tool that can help save you and your customers time and money. Take a look, you will find a Trouble Shooting Guide, schematics, exploded views and a complete listing of all RPI parts that fit the Pelton & Crane OCM, OCR and OCR+ sterilizers. It's all here, in one easy-to-use tool. Keep it close by – in your RPI catalog or at your workbench.

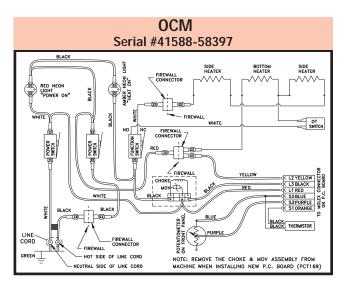
# TROUBLE SHOOTING GUIDE

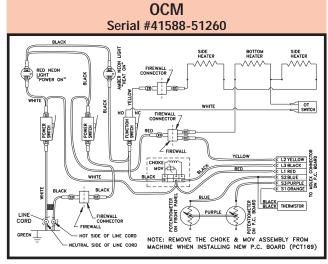
	;	
SYMPTOM	ANALYZE	REMEDY
NO CONTROL OF	A. OVERTEMP SWITCH	A. RECALIBRATE FROM COLD START.
PRESSURE/TEMPERATURE	B. THERMISTOR ASSEMBLY	B. RESISTANCE SHOULD BE 1 MEG Ω @ 77°F ± 20%.
	C. SOLID STATE CONTROLLER	C. MEASURE VOLTAGE FROM COMMON TERMINAL OF POWER
	O. OCEID CHAIL COMMICELLIA	SWITCH NO.2 TO COMMON TERMINAL OF FUNCTION SWITCH
		IF 120 VOLTS, BOARD IS OPEN. IF 0 VAC, BOARD IS GOOD.
	D. CENTER HEATING ELEMENT	D. POSSIBILITY OF SHORT IN HOT SIDE OF LINE. TRACE OUT HOT
	D. CENTER HEATING ELEMENT	
		SIDE OF LINE FROM POWER CORD TO SWITCHES FOR A SHORT.
		CHECK CENTER ELEMENT FIRST.
WILL NOT BUILD UP TO	A. DOOR	A. CHECK DOOR TO MAKE SURE IT IS IN THE LOCKED POSITION
STERILIZING PRESSURE/		AND NOT LEAKING.
TEMPERATURE	B. DOOR SWITCH (OCR+ ONLY)	B. CHECK SWITCH POSITION AND READJUST IF NECESSARY.
	C. UNIT LEVEL	C. USE LEVEL AND ADJUST FEET IF NECESSARY.
	D. AMOUNT OF WATER ADMITTED	D. WHEN PROPERLY FILLED, WATER SHOULD
	DURING FILL CYCLE	COVER FILL PLATE.
	E. POTENTIOMETER ON	E. TURN CLOCKWISE TO CALL FOR MORE HEAT.
	CONTROLLER	E. TOTAL GEOGRAPIOE TO GALL FOR MIGHE FILM.
	F. CENTER HEATING ELEMENT	F. CHECK RESISTANCE OF ELEMENT, IT SHOULD BE:
	1. OLIVIEITILAIING ELEMENT	• $\sim 10 \Omega$ FOR OCM
	O OVERTEND CONTROLL	• ~ 8 Ω FOR OCR OR OCR+
	G. OVERTEMP SWITCH	G. RECALIBRATE FROM COLD START,
		OR REPLACE AND CALIBRATE. (PCT042).
	H. THERMISTOR	H. CHECK RESISTANCE. SHOULD BE 1 MEG Ω @ 77°F ± 20%.
	I. FRONT POTENTIOMETER	I. CHECK RESISTANCE 20K $\Omega$ ± 10%.
	J. SOLID STATE CONTROLLER	J. MEASURE VOLTAGE FROM TOP TERMINAL
		OF NO. 1 POWER SWITCH TO COMMON TERMINAL
		OF FUNCTION SWITCH. (IF 120 VAC BOARD IS
		PROBABLY OPEN; IF 0 VAC, BOARD IS PROBABLY GOOD). THIS
		IS PROVIDED THERE IS CONTINUITY THROUGH FUNCTION
		SWITCH, OT SWITCH AND HEATING ELEMENT.
	K. MAIN VALVE (FILL/VENT VALVE)	K. CHECK TEFLON SEATS FOR SCORING OR TRASH
		LODGED AROUND SEATS. IF SCORED, REPLACE.
		IF TRASH OR DEBRIS, CLEAN AND RE-ASSEMBLE.
	L. FUNCTION SWITCH	L. CHECK FOR ACTIVATION OF SWITCH BY MAIN VALVE CAM.
		ADJUST POSITION OF SWITCH ARM SO IT IS DEPRESSED
		AND SWITCH IS CLOSED IN THE STERILIZER MODE.
	M. ROCKER ARM	M. VISUALLY CHECK FOR ROCKER ARM DEPRESSING PUSH ROD
		IN STERILIZE MODE. CHECK FOR CLEARANCE AND ADJUST
		(FLATTEN) CAM SHAFT IF NECESSARY.
		4 DEDI 405 DELL'OUGO (5 NEOFOOAT) ( 72222 )
THERMOMETER READS	A. BELLOWS	A. REPLACE BELLOWS, IF NECESSARY (PCB001).
MORE THAN 4°F BELOW	B. TEMPERATURE GAUGE	B. REPLACE TEMPERATURE GAUGE, IF NECESSARY (PCG050).
REQUIRED TEMPERATURE	C. PRESSURE GAUGE	C. REPLACE PRESSURE GAUGE, IF NECESSARY (PCG040).
AT GIVEN PRESSURE	D. AIR VALVE HOUSING	D. CLEAN AIR VALVE HOUSING AND/OR REPLACE.
THE DAY ON A STEP DE A DO	A TEMPERATURE CALLOS	A DEDI AGE TEMPERATURE CALIGE IS A SCHOOL OF
THERMOMETER READS	A. TEMPERATURE GAUGE	A. REPLACE TEMPERATURE GAUGE, IF NECESSARY.
MORE THAN 4°F ABOVE	B. PRESSURE GAUGE	B. REPLACE PRESSURE GAUGE, IF NECESSARY.
REQUIRED TEMPERATURE		
AT GIVEN PRESSURE		
PILOT LIGHT BULBS SLOW	A. LINE VOLTAGE	A. CHECK LINE VOLTAGE.
TO LIGHT WHEN AUTOCLAVE	B. BULB	B. REPLACE BULB (PCL027).
	D. DOLD	D. NEFEAGE BULD (FULUZI).
IS TURNED ON		
TIMER BELL WILL NOT RING	A. TIMER	A. REPLACE TIMER, IF NECESSARY (PCT049).
AT END OF TIMING CYCLE	B. TIMER BELL OFF-CENTER	B. LOOSEN NUT ON BACKSIDE OF BELL AND RECENTER.
	C. TIMER POSITION	C. LOOSEN NUT ON TIMER SHAFT, ROTATE
		TIMER UNTIL TOP MARK IS AT 12:00 POSITION.

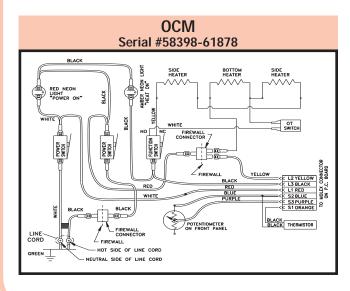
# **OCM & OCR SCHEMATICS**

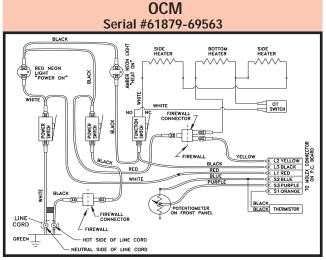
# Serial #34350-38816 BLACK WHITE POWER ON POWER



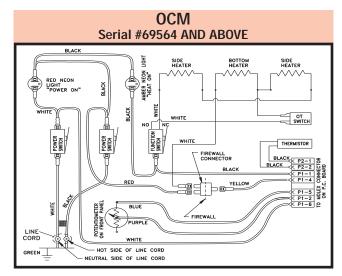


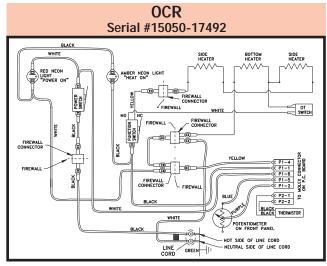


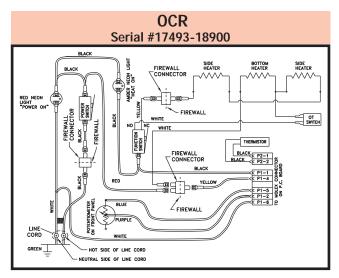


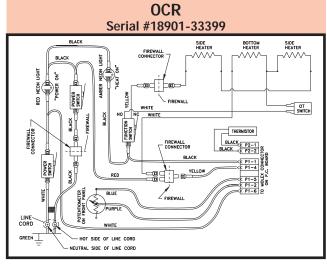


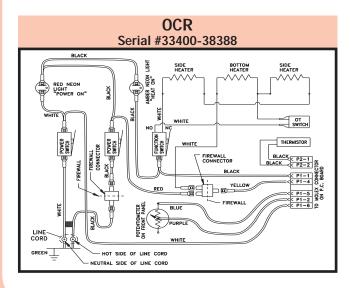
# **OCM & OCR SCHEMATICS**

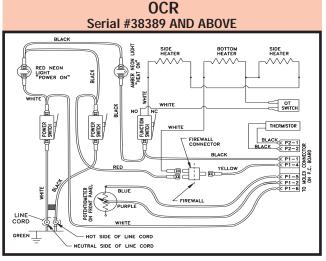


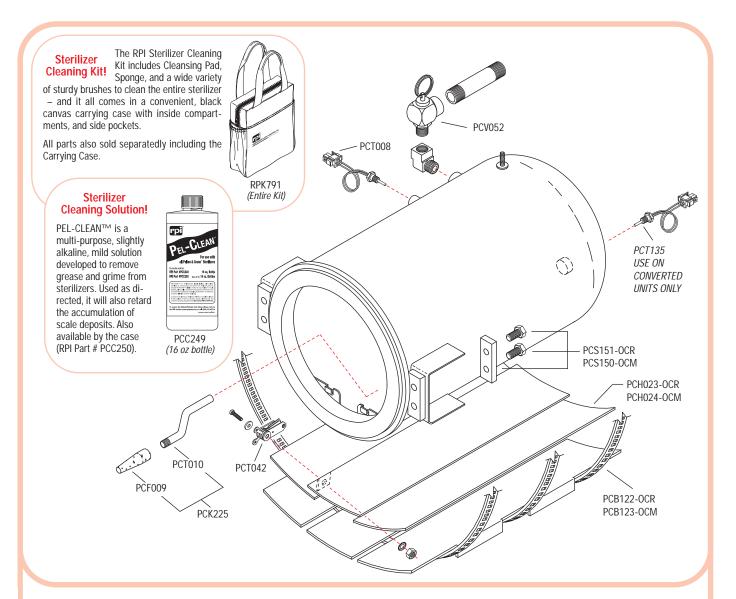












# **HOW TO REPLACE HEATERS**

- 1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.
- 2. REMOVE OUTER CASING AND DRAIN RESERVOIR.
- 3. TURN UNIT ON ITS SIDE.
- 4. REMOVE BOTTOM PLATE.
- 5. REMOVE BANDS AND BACKUP PLATE.
- IF REPLACING MAIN (CENTER) ELEMENT, ALSO REMOVE OVER-TEMP SWITCH.
- 7. INSPECT AND CLEAN OUTER CHAMBER SURFACE
- 8. INSTALL NEW ELEMENT(S) MAKING SURE THAT CONTACT BETWEEN ELEMENT AND CHAMBER HAS *NO* GAPS – NEED TO ELIMINATE ALL HOT SPOTS WHICH COULD BURN OUT THE HEATER AND/OR CHAMBER. (NOTE: IF USING RPI METAL CLAD

# IS DURING HEATER REPLACEMENT. HOW TO CHECK HEATING ELEMENTS

- 1. PLUG IN UNIT AND PRESSURIZE FOR THESE CHECKS.
- A. WITH CONTROL KNOB IN STERILIZE POSITION:
  - OCM UNITS SHOULD DRAW APPROXIMATELY 10.9 AMPS @ 115VAC

ELEMENT (PCH023 OR PCH024), REMOVE COPPER LINER

11. IN SEQUENTIAL ORDER, REPLACE AND TIGHTEN PRESSURE

PLATE BANDS (ALL BANDS SHOULD BE TORQUED TO 40 IN. LBS.)

13. BEGIN STERILIZING CYCLE AND RECALIBRATE OVERHEAT THERMOSTAT.

15. NOTE: BEST TIME TO REPLACE OVERHEAT THERMOSTAT (PCT042)

THERMOSTAT (PCT042) TO TAB ON ELEMENT.)

9. REPLACE ALL WIRING.

10. REPLACE BACKUP PLATE.

12. REPLACE BOTTOM PLATE.

14. REPLACE OUTER CASING.

ATTACHED TO OVERHEAT THERMOSTAT. ATTACH OVERHEAT

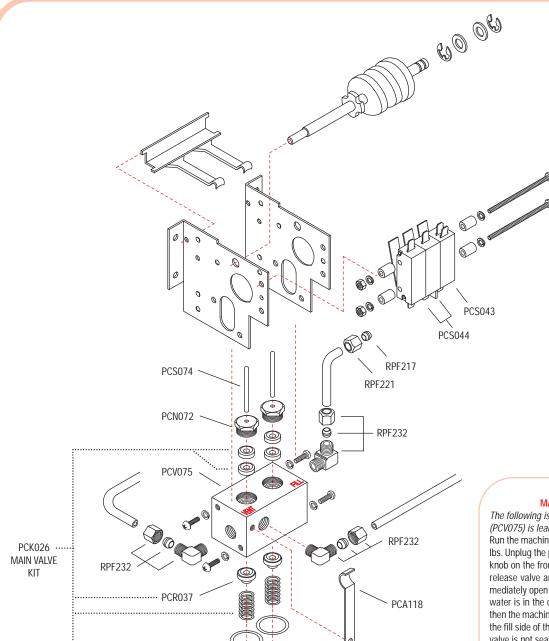
- $\bullet$  OCR and OCR+ units should draw approximately 13.9 amps @ 115vac
- B. WITH CONTROL KNOB IN VENT POSITION:
  - $\bullet$  OCM UNITS SHOULD DRAW APPROXIMATELY 3.6 AMPS @ 115VAC
  - OCR AND OCR+ UNITS SHOULD DRAW APPROXIMATELY 4.6 AMPS @ 115VAC
- C. THE ONLY SURE CHECK FOR HEATING ELEMENTS IS TO CHECK RESISTANCE ACROSS THE ELEMENT:
  - ullet OCM UNITS SHOULD BE APPROXIMATELY  $10\Omega$
  - ullet OCR and OCR+ units should be approximately  $8\Omega$

# HOW TO REPLACE SAFETY VALVE

- 1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.
- 2. REMOVE OUTER CASING.
- LOCATE VALVE AT UPPER LEFT REAR OF CHAMBER. REMOVE FROM CHAMBER.
- 4. INSTALL NEW VALVE (PCV052) USING TEFLON TAPE OR PLUMBER'S PUTTY ON THREADS TO ASURE A GOOD SEAL. RE-USE NIPPLE ATTACHED TO OLD VALVE.
- 5. MANUALLY ACTIVATE VALVE PERIODICALLY TO CHECK PROPER FUNCTION AND SEATING.
- 6. REPLACE OUTER CASING.

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# HOW TO CHECK IF MAIN VALVE IS LEAKING

The following is a tip to determine if the Main Valve (PCV075) is leaking and needs to be replaced. Run the machine until it pressurizes between 20-25 lbs. Unplug the power cord. DO NOT turn the control knob on the front of the machine. Pull on the safety release valve and release the steam pressure. Immediately open the door and look to see how much water is in the chamber. If the chamber is bone dry then the machine is blowing the steam back through the fill side of the main valve. This indicates that the valve is not sealing and the components need to be replaced. If the components need to be replaced. You will need (2) Main Valve Kits (PCK026).

#### HOW TO CLEAN MAIN VALVE OR REPLACE BUTTON RETAINER

PCC073

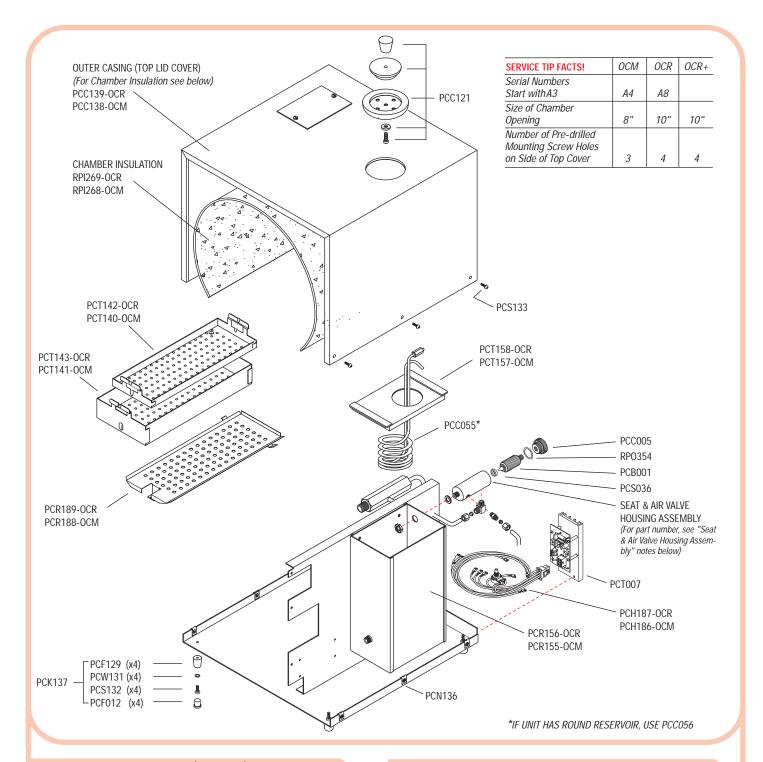
1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.

..... RP0355

- 2. DRAIN RESERVOIR.
- 3. TURN MACHINE ON ITS SIDE. UNSCREW THE TWO MAIN VALVE CAPS ON BOTTOM OF VALVE.
- 4. REMOVE SPRINGS AND BUTTON RETAINERS FROM VALVE BLOCK. REPLACE THE BUTTON RETAINERS IF SCORING, SCRATCHES OR GOUGES ARE FOUND ON TEFLON® SEATS. REPLACE IF NECESSARY (PCR037).
- WHEN REASSEMBLING, ENSURE O-RINGS (RPO355) ARE PROPERLY SEATED IN GROOVES OF MAIN VALVE CAPS.

# MAIN VALVE SERVICE TIPS

- IF REPLACING THE BUTTON RETAINERS, SPRINGS AND 0-RINGS, THE MAIN VALVE DOES NOT NEED TO BE REMOVED FROM THE MACHINE.
- CHECK THE UP AND DOWN TRAVEL OF THE MAIN VALVE STEM. IF YOU
   CAN MOVE THE MAIN VALVE STEM UP AND DOWN WITH YOUR FINGERS,
   THE VALVE PACKING NEEDS TO BE REPLACED.
- IF THE VALVE PACKINGS NEED TO BE REPLACED: 1) REMOVE THE MAIN VALVE FROM THE MACHINE. 2) INSTALL THE NEW VALVE PACKINGS ONE AT A TIME. IF YOU ATTEMPT TO INSTALL BOTH PACKINGS AT THE SAME TIME, THE BOTTOM PACKING WILL HAVE A TENDENCY TO TILT TO ONE SIDE AND PREVENT PROPER SEATING. INSTALL THE FIRST PACKING AND KEEP IT SQUARE WITH THE VALVE OPENING, THEN SCREW THE MAIN VALVE NUT IN PLACE TO SEAT THE PACKING. REMOVE THE MAIN VALVE NUT. REPEAT THE PROCESS WITH THE REMAINING PACKING.



### HOW TO REPLACE AIR VALVE (BELLOWS)

- 1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.
- 2. UNSCREW LARGE KNURLED BELLOWS CAP IN REAR OPENING OF AUTOCLAVE.
- 3. UNSCREW BELLOWS FROM KNURLED BELLOWS CAP. INSTALL NEW BELLOWS (PCB001) IN CAP.
- 4. REPLACE BELLOWS CAP AND NEW BELLOWS IN AIR VALVE HOUSING. ENSURE THAT O-RING (RPO354) IS IN GROOVE OF KNURLED BELLOWS CAP, AND NOT DAMAGED.

  (BEFORE INSTALLING THE NEW BELLOWS (PCB001) BE SURE TO CLEAN OUT THE HOUSING AND HOUSING SEAT.)

# SEAT & AIR VALVE HOUSING ASSEMBLY

FOLLOWING IS A LISTING OF THE RPI SEAT & VALVE AIR HOUSING ASSEMBLIES THAT FIT THE OCM, OCR AND OCR+. CHOOSE THE ASSEMBLY YOU NEED BASED ON THE SERIAL NUMBER OF THE UNIT.

PCV057 - MODELS: OCM (SERIAL #34350 AND ABOVE) OCR (SERIAL #15050 AND ABOVE)

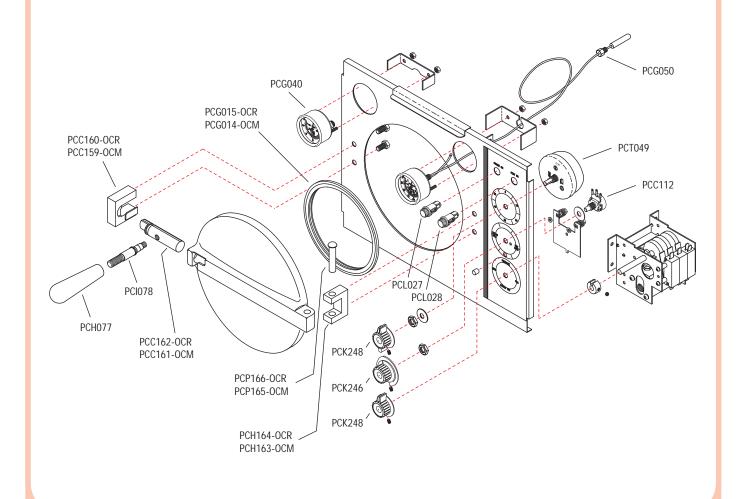
OCR+ (SERIAL #3902 AND ABOVE)
PCV058 - MODELS: OCM (SERIAL #1001 TO 16525)

OCR (SERIAL #1001 TO 2931)

PCV059 - MODELS: OCM (SERIAL #16526 TO 34349)

OCR (SERIAL #5671 TO 15049)

PCV060 - MODEL: OCR (SERIAL #2932 TO 5670)



# **HOW TO REPLACE TIMER**

- 1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.
- 2. REMOVE OUTER CASING.
- 3. REMOVE TIMER KNOB BY LOOSENING SET SCREW.
- 4. REMOVE NUT FROM TIMER SHAFT, AND REMOVE OLD TIMER.
- 5. INSTALL NEW TIMER (PCT049) WITH TOP MARK AT TOP OF AUTOCLAVE.
- 6. REPLACE KNOB AND OUTER CASING.
- 7. DO NOT OVER TIGHTEN TIMER NUT.

### HOW TO REPLACE FRONT POTENTIOMETER

- 1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.
- 2. REMOVE OUTER CASING.
- 3. REMOVE CONTROL KNOB BY LOOSENING SET SCREW.
- 4. REMOVE HEX NUT FROM POTENTIOMETER SHAFT.
- 5. DESOLDER OR CUT BLUE AND PURPLE WIRE LEADS ATTACHED TO POTENTIOMETER.
- 6. STRIP WIRES, TIN AND RESOLDER TO NEW POTENTIOMETER (PCC112).
- 7. INSTALL POTENTIOMETER (PCC112) AND TIGHTEN HEX NUT ON SHAFT.
- 8. ROTATE SHAFT OF POTENTIOMETER TO 1/2 OF THE FULL CLOCKWISE POSITION.
- 9. BEGIN A STERILIZING CYCLE. ADJUST POTENTIOMETER UNTIL TEMPERATURE STABILIZES AT 270°F. AFTER EACH ADJUST-MENT, ALLOW TEMPERATURE TO STABILIZE (USUALLY 10-15 MINUTES). WHEN TEMPERATURE STABILIZES AT 270°F, REATTACH KNOB SO THAT CHROME SKIRT IS AGAINST THE STOP. THIS WILL BE YOUR MAXIMUM TEMPERATURE SETTING.
- 10. REPLACE OUTER CASING.





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RPI PART #	OEM PART #	DESCRIPTION	OCM	OCR	OCR+	RPI PART #	OEM PART #	DESCRIPTION	OCM	0CR	OCR+
PCA117	012703	DOOR HANDLE ASSEMBLY	•	•		PCL027	004095	"POWER ON" LIGHT (RED)	•	•	•
PCA118	004231	LOCATOR ARM-3/PKG		•	•	PCL028	004094	"HEAT ON" LIGHT (AMBER)	•	•	•
PCB001	004048	BELLOWS		•	•	PCN072	004027	MAIN VALVE NUT	•	•	•
PCB002	002143	BELLOWS EXTENSION	•	•		PCN136	004076	SPEEDNUT - 10/PKG	•	•	•
PCB122	1539647	BAND (12")		•	•	PCP165	004024	HINGE PIN	•		
PCB123	3000119	BAND (10")	•			PCP166	004433	HINGE PIN		•	
PCB126	004096	BOLT-12/PK	•			PCR037	004039	VALVE BUTTON RETAINER	•	•	•
PCB127	022727	BOLT-12/PKG		•		PCR155	004305	RESERVOIR ASSEMBLY	•		
PCB134	017985	ELECTRICAL TERMINAL BUSHING - 3/PKG	•	•		PCR156	004442	RESERVOIR ASSEMBLY		•	•
PCC003	004431	POWER CORD WITH CONNECTORS	•	•	•	PCS036	004018	AIR RELEASE VALVE SEAT - 6/PKG	•	•	•
PCC004	004288	POWER CORD WITHOUT CONNECTORS	•	•	•	PCS043	004079	FUNCTION SWITCH (3 LEAD)	•	•	•
PCC005	004228	BELLOWS CAP	•	•	•	PCS044	004073	POWER SWITCH (2 LEAD)	•	•	•
PCC055	004237	CONDENSER TUBE	•	•	•	PCS074	004028	MAIN VALVE STEM	•	•	•
PCC056	002262*	CONDENSER TUBE	•	•		PCS132	3324295	SCREW - 12/PKG	•	•	•
PCC062	N/A	THERMISTOR CONNECTOR	•	•	•	PCS133	090300	CASING SCREW - 12/PKG	•	•	•
PCC073	004030	MAIN VALVE CAP	•	•	•	PCS150	4205592	FRAME SUPPORT KIT	•		
PCC112	004144	CONTROLLER	•	•	•	PCS151	4205550	FRAME SUPPORT KIT		•	
PCC114	4205618	CHAMBER ASSEMBLY	•			PCT007	019110	SOLID STATE CONTROLLER	•	•	•
PCC116	004435	CHAMBER ASSEMBLY		•		PCT008	019149	THERMISTOR ASSEMBLY	•	•	•
PCC119	004391	CAP-DRAIN TUBE	•	•	•	PCT010	1881023++	FILL CHAMBER TUBE	•	•	
PCC121	004287	RESERVOIR COVER ASSEMBLY	•	•	•	PCT042	004108	OVERHEAT THERMOSTAT	•	•	•
PCC138	0222452	OUTER CASING	•			PCT049	004112	BELL TIMER	•	•	•
PCC139	017919	OUTER CASING		•		PCT135	N/A	THERMISTOR	•	•	
PCC159	004302	CATCH BLOCK ASSEMBLY	•			PCT140	004040	INSTRUMENT TRAY (SMALL)	•		
PCC160	004444	CATCH BLOCK ASSEMBLY		•		PCT141	004141	INSTRUMENT TRAY (LARGE)	•		
PCC161	004149	DOOR CAM	•			PCT142	1539357	INSTRUMENT TRAY (SMALL)		•	
PCC162	004356	DOOR CAM		•		PCT143	1539340	INSTRUMENT TRAY (LARGE)		•	
PCC249	047508	PEL-CLEAN™	•	•	•	PCT144	004234	DRAIN TUBE	•		
PCC250	047508	PEL-CLEAN™ (CASE)	•	•	•	PCT145	002285°	DRAIN TUBE		•	
PCF009	004326	FILL LINE FILTER	•	•	•	PCT146	004397°°	DRAIN TUBE		•	•
PCF011	002186	RUBBER FOOT-4/PKG	•	•	•	PCT157	004306	RESERVOIR TOP	•		
PCF012	004010	RUBBER FOOT INSERT - 12/PKG	•	•	•	PCT158	004443	RESERVOIR TOP		•	
PCF129	004120	PLASTIC TIP RETAINER FOOT - 4/PKG	•	•	•	PCT169	N/A	SOLID STATE CONTROLLER	•	•	•
PCG014	004014	DOOR GASKET	•			PCV052	004146	PRESSURE RELIEF VALVE	•	•	•
PCG015	004341	DOOR GASKET		•	•	PCV057	004318+++	SEAT & AIR VALVE HOUSING ASSEMBLY	•	•	•
PCG040	3336356	PRESSURE GAUGE	•	•	•	PCV058	002279^	SEAT & AIR VALVE HOUSING ASSEMBLY	•	•	
PCG050	014451	TEMPERATURE GAUGE	•	•	•	PCV059	011155^^	SEAT & AIR VALVE HOUSING ASSEMBLY	•	•	
PCH023	014603	HEATING ELEMENT (METAL CLAD)		•	•	PCV060	004438^^^	SEAT & AIR VALVE HOUSING ASSEMBLY		•	
PCH024	014601**	HEATING ELEMENT (METAL CLAD)	•			PCV075	004310	MAIN VALVE BODY	•	•	•
PCH048	N/A+	HEATING ELEMENT (METAL CLAD)	•			PCW068	N/A	CONTROLLER BOARD WIRE HARNESS	•	•	•
PCH077	004043	DOOR HANDLE	•	•		PCW131	004229	LEVELING WASHER - 12/PKG	•	•	•
PCH163	004151	DOOR HINGE BLOCK	•			RPB792	N/A	LARGE DIA BRUSH (1-3/4")	•	•	•
PCH164	004351	DOOR HINGE BLOCK		•		RPB793	N/A	SMALL DIA BRUSH (3/8")	•	•	•
PCI078	012703	DOOR HANDLE INSERT	•	•		RPB794	N/A	SCRUB BRUSH	•	•	•
PCK026	N/A	MAIN VALVE KIT	•	•	•	RPB795	N/A	HANDLE BRUSH	•	•	•
PCK128	N/A	THERMOSTAT CONVERSION KIT	•	•		RPB796	N/A	FLEXIBLE TUBE BRUSH (7/8")	•	•	•
PCK137	004436	FOOT KIT	•	•	•	RPC799	N/A	CARRYING CASE	•	•	•
PCK218	N/A	STERILIZER PM KIT	•			RPK791	N/A	CLEANING KIT	•	•	•
PCK219	N/A	STERILIZER PM KIT		•	•	RPP798	N/A	CLEANSING PAD	•	•	•
PCK224	011047	BELLOWS KIT	•	•	•	RPS797	N/A	SPONGE (4-1/4" x 6")	•	•	•
PCK225	881023	FILTER & TUBE KIT	•	•	•	RP0354	004004	AIR VALVE O-RING - 6/PKG	•	•	•
PCK246	010784 <sup>†</sup>	KNOB (THERMOSTAT)	•	•	•	RP0355	004000	MAIN VALVE O-RING - 6/PKG	•	•	•
PCK248	013015	KNOB (TIMER & FUNCTION)	•	•	•	RPT113	N/A	MAX REGISTER THERMOMETER	•	•	•