

YOUR GUIDE TO MAINTAINING

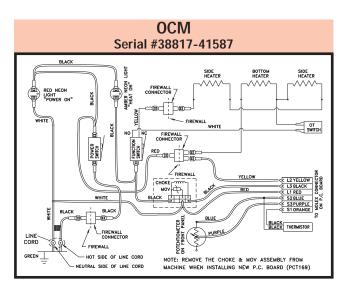
THE PELTON & CRANE OCM, OCR & OCR + STERILIZERS
Replacement Parts Industries, Inc. is pleased to present this valuable work tool that can help save you and your customers time and money. Take a look, you will find a Trouble Shooting Guide, schematics, exploded views and a complete listing of all RPI 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.

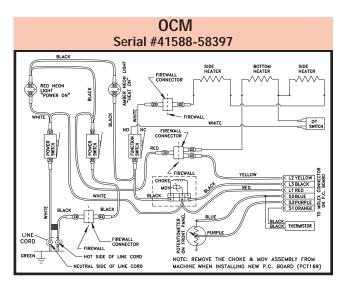
TROUBLE SHOOTING GUIDE

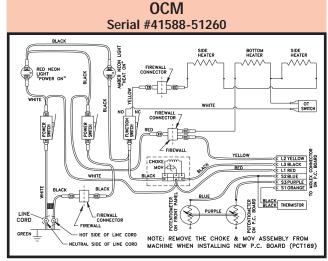
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J. SOLID STATE CONTROLLER J. MASURE VOLTAGE FROM TOP TERMINAL OF NO.1 PORE SWITCH TO COMMON TERMINAL OF NO.1 PORE SWITCH TO COMMON TERMINAL OF FUNCTION SWITCH. (IF 120 VAC BOARD IS PROBABLY OPEN; IF 20 VAC, BOARD IS PROBABLY GOOD), THIS IS PROVIDED THERE IS CONTINUITY THROUGH FUNCTION SWITCH, OT SWITCH AND HEATING ELEMENT. K. MAIN VALVE (FILL/VENT VALVE) K. CHECK FELON SEATS, IF SCORED, REPLACE. IF TRASH OR DEBRIS, CLEAN AND RE-ASSEMBLE L. CHECK FOR ACTIVATION OF SWITCH AND NET SCORING ON TRASH LODGED AROUND SEATS, IF SCORED AND REPLACE. H. FUNCTION SWITCH IS 20 OR TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEATS, IF SCORED AND RELIGIOUS OF TRASH LODGED AROUND SEAT		H. THERMISTOR	H. CHECK RESISTANCE. SHOULD BE 1 MEG Ω @ 77°F ± 20%.											
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TIMER UNTIL TOP MARK IS AT 12:00 POSITION.		C. TIMER POSITION	C. LOOSEN NUT ON TIMER SHAFT, ROTATE											
			TIMER UNTIL TOP MARK IS AT 12:00 POSITION.											

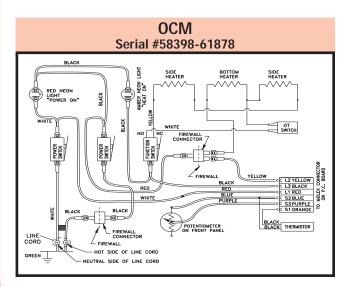
OCM & OCR SCHEMATICS

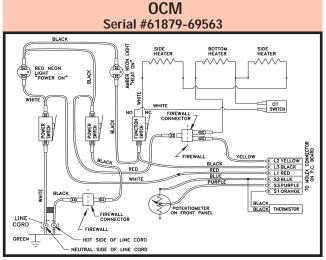
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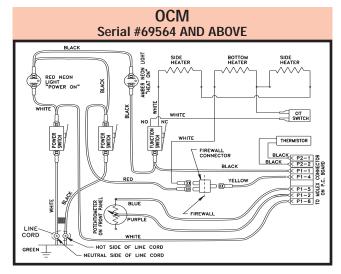


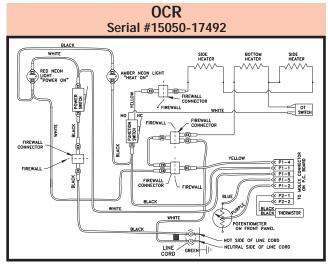


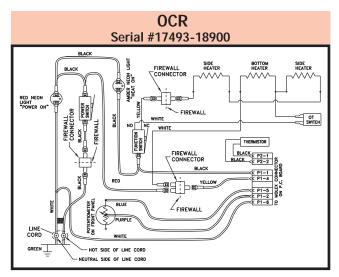


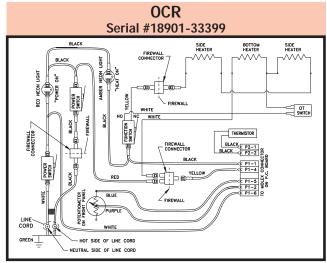


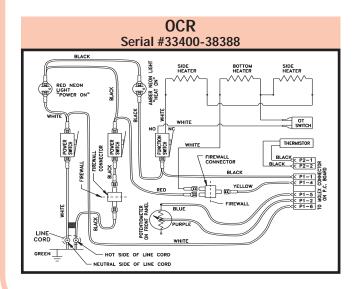
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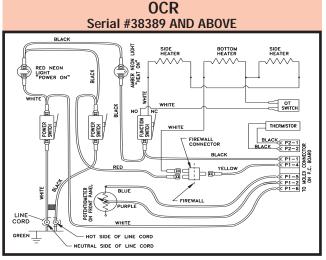


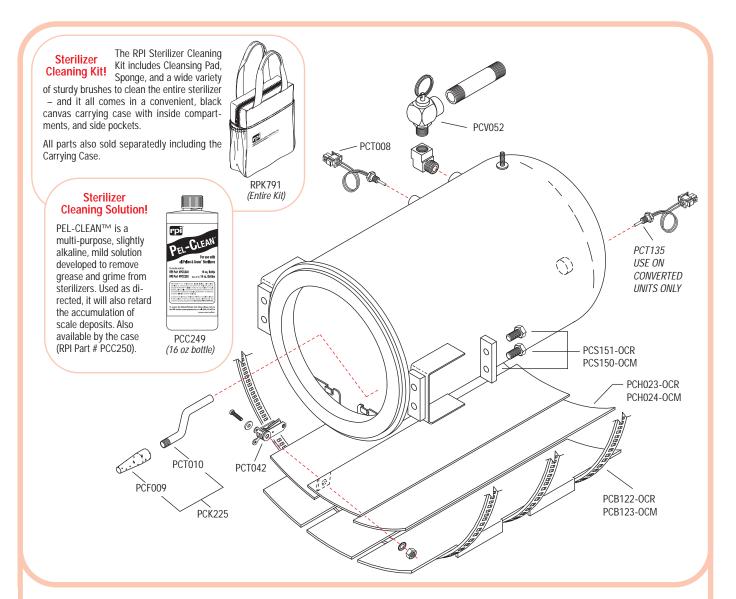












HOW TO REPLACE HEATERS

- 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.

HOW TO REPLACE SAFETY VALVE

- 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

HOW TO CL

- 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.

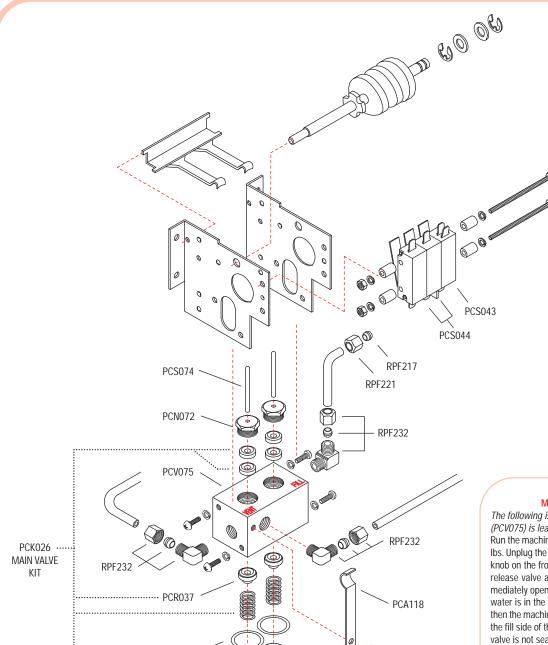
- ELEMENT (PCH023 OR PCH024), REMOVE COPPER LINER ATTACHED TO OVERHEAT THERMOSTAT. ATTACH OVERHEAT THERMOSTAT (PCT042) TO TAB ON ELEMENT.)
- 9. REPLACE ALL WIRING.
- 10. REPLACE BACKUP PLATE.
- 11. IN SEQUENTIAL ORDER, REPLACE AND TIGHTEN PRESSURE PLATE BANDS (ALL BANDS SHOULD BE TORQUED TO 40 IN. LBS.)
- 12. REPLACE BOTTOM PLATE.
- 13. BEGIN STERILIZING CYCLE AND RECALIBRATE OVERHEAT THERMOSTAT.
- 14. REPLACE OUTER CASING.
- NOTE: BEST TIME TO REPLACE OVERHEAT THERMOSTAT (PCT042) 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
 - 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 10Ω
 - ullet OCR and OCR+ units should be approximately 8Ω



4



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

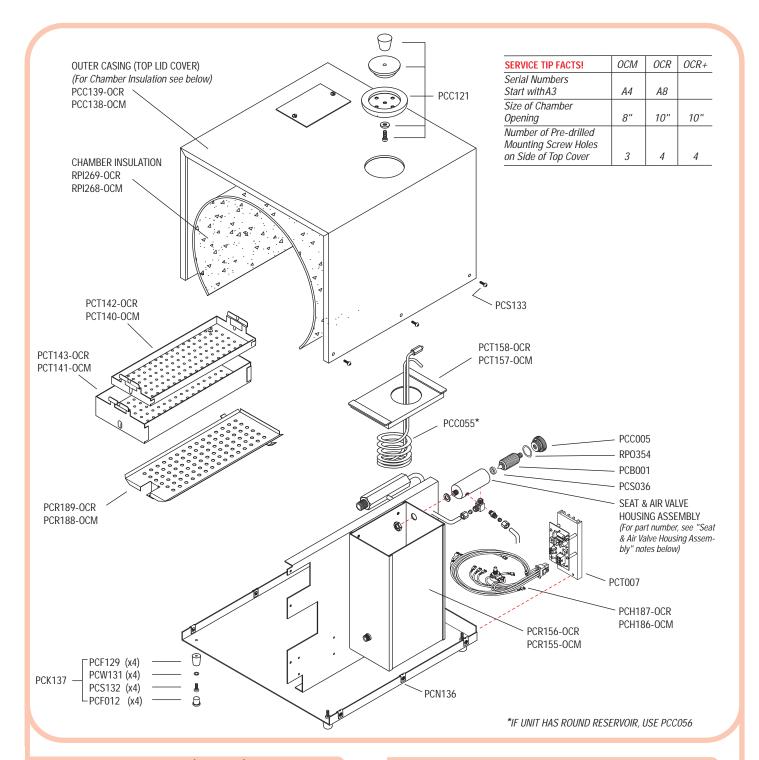
1. UNPLUG AUTOCLAVE AND ENSURE NO PRESSURE IN CHAMBER.

..... 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).
- 5. 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.

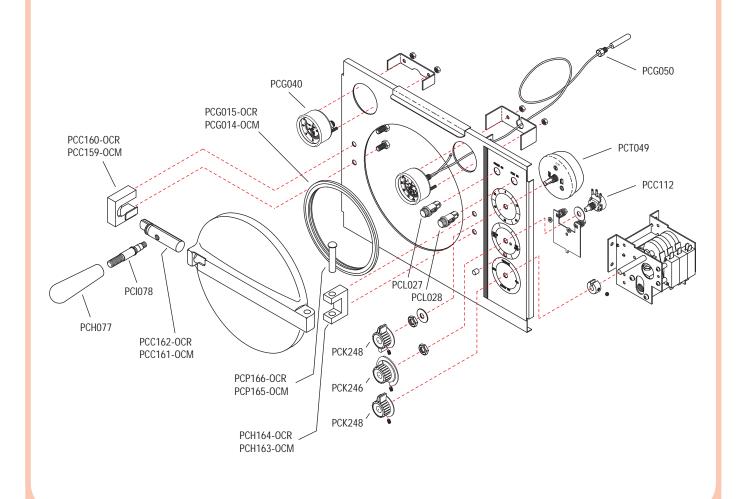
PCV057 - MODELS: OCM (SERIAL #34350 AND ABOVE) OCR (SERIAL #15050 AND ABOVE) OCR+ (SERIAL #3902 AND ABOVE)

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.
- ${\tt 5.} \quad {\tt DESOLDER} \ {\tt OR} \ {\tt CUT} \ {\tt BLUE} \ {\tt AND} \ {\tt PURPLE} \ {\tt WIRE} \ {\tt LEADS} \ {\tt ATTACHED} \ {\tt TO} \ {\tt POTENTIOMETER}.$
- 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 #	0EM PART #	DESCRIPTION	ОСМ	OCR	OCR+	RPI PART #	0EM PART#	DESCRIPTION	OCM	OCR	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 [†]	KNOB (THERMOSTAT)	•	•	•	RP0355	004000	Main valve 0-ring - 6/pkg	•	•	•
PCK248	013015	KNOB (TIMER & FUNCTION)	•	•	•	RPT113	N/A	MAX REGISTER THERMOMETER	•	•	•