

# Annual check for eikon® e2s

**Task(s):** Annual Technician PM check

**Frequency:** Annual

**Time to complete:** 1-3 hours

**Model(s):** Merrychef eikon® e2s

## Safety information:

Please adhere to all Merrychef safety aspects at all times.



Electricity



Manual handling



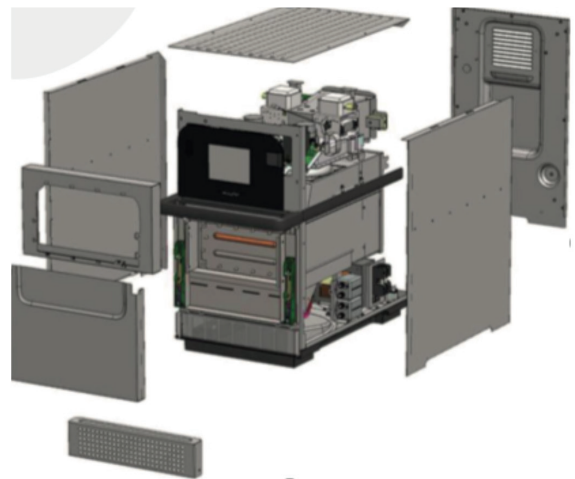
Hot liquids

## Annual PM check procedure

### Tools

Note\*: Please refer to e2s service manual for full details on all tests to be carried out by a trained Merrychef technician.

1. Microwave leak detector
2. Paper towel
3. Microwaveable bowl of water
4. \*Upper Impinger PSB3122
5. \*Door Gasket PSB318
6. \*Cook Plate PSB3108 Pre-Jan 2019
7. \*Cook Plate DB0719 Post-Jan 2019




## A. Task

<p><b>1</b></p> <p>Check the oven for obvious signs of damage and cleanliness. Switch the oven on and off with front switch, allow to cool down.</p>	<p><b>2</b></p> <p>Check the power cord and plug for damage and replace if required.</p>	<p><b>3</b></p> <p>Remove the air filter and check for damage, clean and insert or replace if required.</p>	<p><b>4</b></p> <p>Pre-Jan 2019 *Remove old cook plate verify the PTFE feet are intact if not replace with PSB3108 with angled edge at the front of the cavity.</p>
<p><b>5</b></p> <p>Post Jan 2019 Remove old cook plate and inspect the scallops (recessed area) for arcing and carbonisation. Replace if worn P/N DB0719.</p>	<p><b>6</b></p> <p>Inspect the 4 studs for signs of carbon and arching. Remove the side panels and replace as required PSB1148.</p>	<p><b>7</b></p> <p>Check the door gasket/seal and ensure it is intact, not hanging loose or have any sections broken away or cracked. Replace if required PSB316 and allow silicone to cure for 2 hours.</p>	<p><b>8</b></p> <p>Inspect upper impinger plate for signs of damage. if required follow the instructions laid out in the impinger Kit PSB3122.</p>


## B. Task

**9**



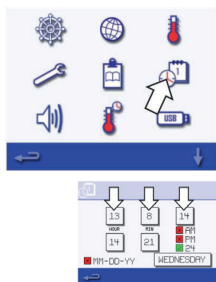
Switch the oven on, record the Serial Number and check the time and date are correct, check the firmware and update if required (Follow the process in the IOM Page 61) Press top right-hand corner on the screen to access the key board screen.

**10**



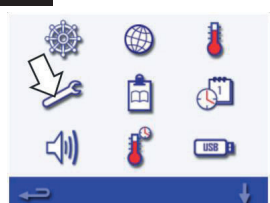
Enter the password **MANAGER** to access the settings menu.

**11**



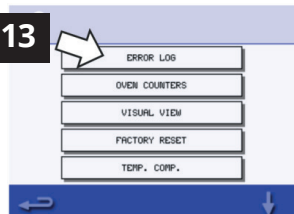
Ensure the date, day and time are set correctly and select OK. Refer to IOM page 84 for details.

**12**



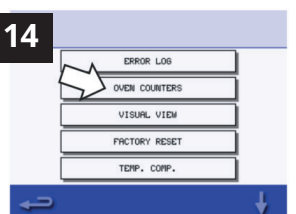
Press the spanner/tool symbol and enter the password **SERVICE** to access the service screen.

**13**



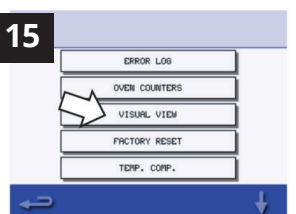
Check the "Error Log" for details of any logged appliance errors, reference any errors logged with the service manual Page 94.

**14**



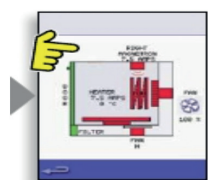
Select oven counters and reference the check sheet below for recommended replacements, advise the customer on actions required.

**15**



Select the visual view to perform initial tests.

**16**



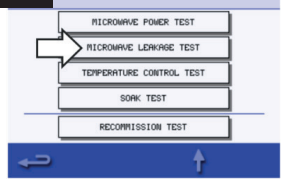
In visual view select the following components in the next section, they will turn red when operating.

**17**

1. Check cooling fan operation & record
2. Check hot air motor rotation and speed control & record
3. Check magnetron current & record
4. Check heating element current & record
5. Check door activation & record

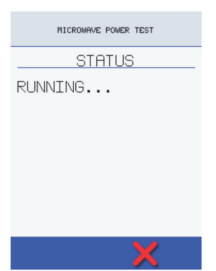
Check all components in accordance with the service manual and recommended replacements as stated below.

**18**




Exit out of visual view, place bowl with 275 ml of cold water in cavity and select Microwave Leakage test.

**19**



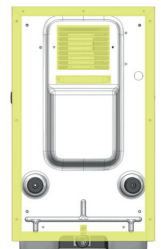
While the test is running hold the test probe at right angles to the oven and hold about 50mm away from the surface.

**20**



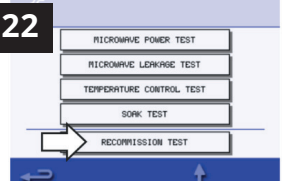
Test the following areas marked in yellow (refer to SM page 106 for details). Level must be 5mW/cm2 or lower & record.

**21**




Test the following areas marked in yellow. Level must be 5mW/cm2 or lower & record.

**22**




Finally, with the bowl of water still inside the cavity, select the recommission test (if the recommission test is greyed out, it means the oven is above the desired temperature).

**23**



Follow the onscreen instruction and record result. Carefully remove bowl and discard water.

**24**



Ensure oven heats up and cooks one item of food.

Planned preventative maintenance schedule for Merrychef eikon® e2s 50Hz/60Hz commercial combination oven			Daily	12 months	24 months	48 months	Part no.	Comments
Item	Description	Commissioning	Operator	OCIE check				
1	Check installation and surroundings as per installation instructions	✓	✓	✓	✓	✓		
2	Check cook baskets for damage and replace if required.	✓	✓	✓	✓	✓		For Operator to check
3	Check oven cook plate		✓	✓	✓	✓	NB	If Damaged Replace - DB0719 Cook Plate and PSB1148 Stubs & Nuts
4	Check air filter and clean	✓	✓	✓	✓	✓	SB326	Optional if damaged/missing
5	Inspect impinger plate, replace if required***			✓	✓	✓	PSB3122	Replace every 24 months or when damaged optional
6	Inspect partition plate for signs of damage (replace if required)			✓	✓	✓	SB363	Optional if damaged
7	Visually check oven for damage			✓	✓	✓		
8	Check condition of mains lead and plug			✓	✓	✓	NB	Replace mains lead if damaged. Check oven model for service part number.
9	Clean oven as per user instructions		✓					
10	Check and clean steam vent pipe every 12 months			✓	✓	✓		
11	Check door seal condition and replace as required				✓	✓	PSB316	Replace every 24 Months or when damaged
12	Check door operation		✓	✓	✓	✓		
13	Check on/off switch operation		✓	✓	✓	✓		
14	Check touch screen condition and operation (calibrate if required)		✓	✓	✓	✓		
15	Review & replace touch screen overlay as necessary			✓	✓	✓	DB0694	Replace when damaged or every 24 months
16	Check and record oven counter screen			✓	✓	✓		
17	Check & record amp draw (heating element and magnetron)			✓	✓	✓		
18	Check cooling fan operation			✓	✓	✓		
19	Check oven temperature calibration	✓		✓	✓	✓		Calibrate with a Calibrated Thermocouple or Pyrometer
20	Unplug and isolate (LOTO)				✓	✓		
21	Check all internal electrical connections (adhere to all safety aspects of the oven as per the ovens safety guide)			✓	✓	✓		
22	Check stirrer motor is rotating			✓	✓	✓	NB	For single mag oven PSR140, for twin mag oven PSR141
23	Replace magnetrons ***					✓	P30Z1415	(x2 High Power Oven ) 1,500Mag Hours or every 48 months
24	Replace door switches			✓	✓	✓	30Z1477 (x2) 30Z1566	Replace 24 months or when damaged
25	Vacuum out casework		✓		✓	✓		
26	Refit all panels and plug the unit in to the electrical supply			✓	✓	✓		
27	Switch the oven on			✓	✓	✓		
28	Download error log file			✓	✓	✓		
29	Download cook count file			✓	✓	✓		
30	Complete recommission test and service report	✓		✓	✓	✓		
Total hrs/mins			0.5hrs	1hr	2hrs	3hrs		

- = checks that can be completed in visual view and should only take 10min to attend to and record findings in the results column
- = Optional outside of PM requirement
- = Mandatory
- = Daily operational checks

\*\* Recommend replacing every 24 months

\*\*\* Recommend replacing every 48 months