

Annual check for eikon® e3

Task(s): Annual technician PM check

Frequency: Annual

Time to complete: 0.5 - 4 hrs

Model(s): Merrychef eikon® e3

Safety information:

Please adhere to all Merrychef safety aspects at all times.



Electricity



Manual handling



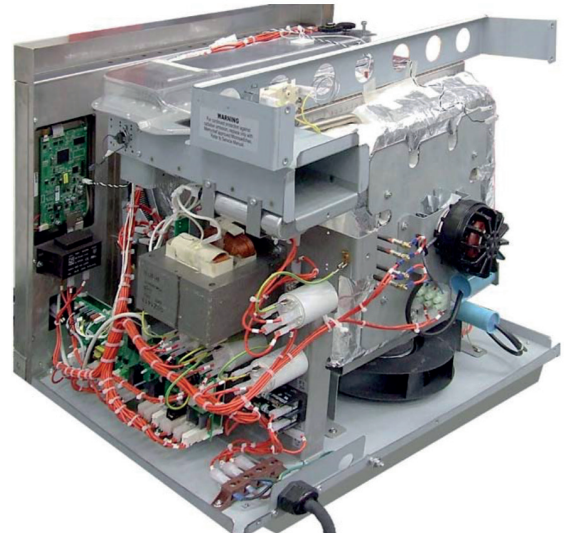
Hot liquids

Annual PM check procedure

Tools

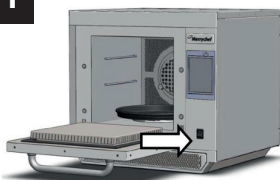
Note*: Please refer to e3 service manual for full details on all tests to be carried out by a trained Merrychef technician.

1. Microwave leak detector
2. Paper towel
3. Microwaveable bowl of water
4. Turntable plate 40H034 (optional replacement, outside of PM)
5. Cast Turntable 40H0249 (optional replacement, outside of PM)
6. Air filter SX339
7. Door gasket PXX307



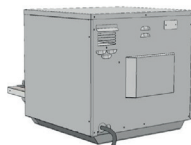
A. Task

1



Check the oven for obvious signs of damage and cleanliness. Switch the oven on and off, allow to cool down.

2



Visually check the cleanliness/condition of the power supply/cable/gland, oven casing, cavity and door for signs of wear, damage & distortion, report any defects as required. Check the steam vent and clean/replace as required.

3



Remove the air filter located at the bottom of the oven, clean as required or replace if damaged SX339.

4



For ovens with a catalytic converter: Open the oven door and undo fasteners from cavity rear to remove the catalytic converter. inspect and replace as required PSX199.

5



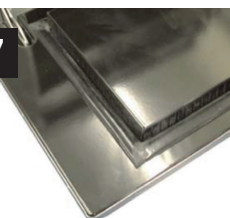
Remove the turntable and inspect for signs of wear, clean where possible but if damaged replace:
Turntable plate 40H0347
Cast Turntable 40H0249 (optional).

6



Inspect the turntable motor assembly check for wear and replace as required.
PSX203


7



Check the door seal and ensure it is intact, not hanging loose or have any sections broken away. Replace if required PSX307.


B. Task

8



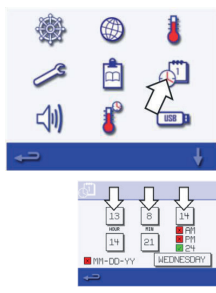
Switch the oven on, record the Serial Number and check the time and date are correct, check the firmware and update if required (Follow the process in the IOM Page 61) Press top right-hand corner on the screen to access the key board screen.

9



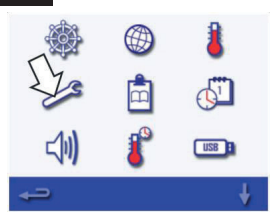
Enter the password MANAGER to access the settings menu.

10



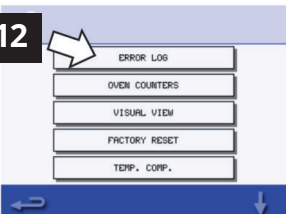
Ensure the date, day and time are set correctly and select OK. Refer to IOM page 84 for details.

11




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

12




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

13



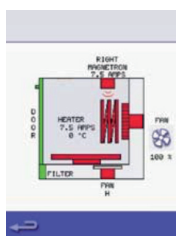
Select oven counters and reference the check sheet below for recommended replacements, advise the customer on actions required.

14



Select the visual view to perform initial tests.

15



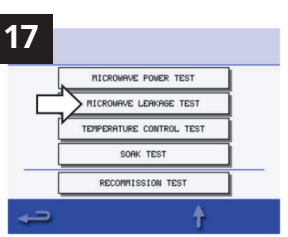
In visual view select the components in the next section, they will turn red when operating.

16

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

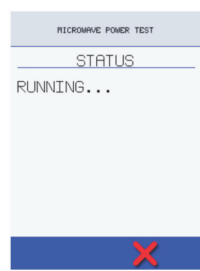
Check all components in accordance with the service manual and recommended replacements as stated below.

17




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

18




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

19



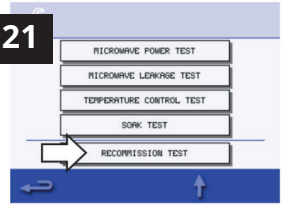
Test the following areas marked in yellow (refer to SM page 106 for details). Level must be 5mW/cm2 or lower & record.

20




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

21



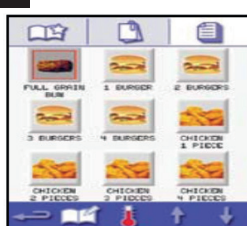
Finally, with the bowl of water still inside the cavity, select the recommission test (if the recommission test is greyed out, it means the oven is above the desired temperature).

22



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

23



Ensure oven heats up and cooks one item of food.

Planned preventative maintenance schedule for Merrychef eikon® e3 50Hz/60Hx 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.	✓	✓	✓	✓	✓		
3	Check oven cook plate and rack	✓	✓	✓	✓	✓		
4	Check air filter is clean and not clogged	✓	✓	✓	✓	✓	SX339	Clean as required, optional replacement
5	Check stirrer partition plate for cracks or damage		✓	✓	✓	✓	PSR122	Replace every 24 months or when damaged
6	Visually check oven for damage	✓	✓	✓	✓	✓		
7	Check oven accessories	✓		✓	✓	✓		Replace when required or missing
8	Check condition of mains lead and plug			✓	✓	✓		Replace mains lead if damaged.
9	Clean oven as per user instructions			✓	✓	✓		
10	Check and clean steam vent pipe every 12 months			✓	✓	✓		Replacement outside of of PPM optional replacement
11	Check door seal condition and replace as required			✓	✓	✓	PSX307	Replace every 24 Months or when damaged
12	Check condition of turntable motor assembly			✓	✓	✓	PSX203	Replace turntable drive every 48 months
13	Check touch screen condition and operation		✓					
14	Check door operation			✓	✓	✓		
15	Check on/off switch operation				✓	✓		
16	Check touch screen condition and operation (calibrate if required)		✓	✓	✓	✓		
17	Review & replace touch screen overlay as necessary		✓	✓	✓	✓	DR0011	Replace when damaged or every 24 months
18	Check and record oven counter screen		✓	✓	✓	✓		
19	Check & record amp draw (heating element and magnetron)	✓		✓	✓	✓		
20	Check door hinges			✓	✓	✓	PSR101	Replace either at 150,000 cycles or 48 Months, whichever comes first. Optional.
21	Check cooling fan operation			✓	✓	✓		
22	Check oven temperature calibration			✓	✓	✓		Calibrate with a Calibrated Thermocouple or Pyrometer
23	Unplug and isolate (LOTO)			✓	✓	✓		
24	Check all internal electrical connections (adhere to all safety aspects of the oven as per the ovens safety guide)			✓	✓	✓		
25	Check stirrer motor is rotating			✓	✓	✓		
26	Replace magnetrons ***					✓	P30Z1415	1,500Mag Hours or every 48 months
27	Replace door switches ***			✓	✓	✓	PSR102	Replace 24 months or when damaged
28	Vacuum out casework		✓	✓	✓	✓		
29	Refit all panels and plug the unit in to the electrical supply			✓	✓	✓		
30	Switch the oven on			✓	✓	✓		
31	Download error log file			✓	✓	✓		
32	Download cook count file			✓	✓	✓		
33	Complete recommission test and service report	✓		✓	✓	✓		
Total hrs/mins			0.5hrs	1hr	3hrs	4hrs		

- = 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