

# PREVENTATIVE MAINTENANCE SCHEDULE OF ESPRESSO MACHINE

No.	Item	Maintenance Steps	Period (mark: x)			
			Daily	Monthly	6 Months	Annually
1	Machine case body	Wipe and clean	x	x	x	
2	Group head backflush	1) Put 3 ~ 5g coffee cleaning powder to the spout portafilter with backflush disk 2) Put portafilter (with backflush disk) to group handle base. 3) Press the operation control panel #1 and #5 buttons at same time 4) Auto backflush operation 10 times	x			
3	Steam wand sprayer	Check and clean, if any foreign matter / scale on the sprayer holes	x			
4	Group head shower plate	Check and clean, if any foreign matter / scale the shower holes	x			
5	Coffee spout portafilter (1 & 2 cup)	1) Mix about 500ml hot water and 8 ~ 10g coffee clean powder solvent in container: 2) Put portafilter in container, immerse over night 3) Use hot water to clean the portafilter	x			
6	Drain panel	Check and clean, if any foreign matter / scale on the drain panel		x		
7	Filtration water quality check	Use water quality test paper to check if the filtered water quality meets the below standard values: 1) Total Chlorine: 0.5 ppm max. 2) Free residual Chlorine: 0.5 ppm max. 3) Total hardness (CaCO <sub>3</sub> ): 50 ~ 250 ppm 4) Acid-Base value ( pH ): 6.8 ~ 7.3 <i>*if water quality value is over standard value, the filter element needs to be replaced</i>		x		
8	Water spout support	Check and clean, if any foreign matter / scale on the parts			x	
9	Single cup stainless steel				x	
10	Double cup stainless steel				x	
11	Drain basin				x	
12	Drain pipe				x	
13	Steam wand sprayer o-ring	Regular replacement			x	
14	Water / steam stopper				x	
15	Group head gasket				x	
16	Safety valve	Check and clean, if any foreign matter / scale on the parts			x	
17	Anti-eddy valve				x	

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18	Solenoid valve	Check and clean, if any foreign matter / scale on the tube and body hole			x	
19	Flowmeter	Check and clean, if any foreign matter / scale on the flowmeter inlet and outlet holes			x	
20	S.C.N.R. doser valve	Check and clean, if any foreign matter / scale on the doser valve holes			x	
21	Heating element	Check if the heating function is normal <i>*If test fails, the heating element needs to be replaced</i>			x	
22	Heating element gasket	Regular replacement			x	
23	Pressure switch	Check functionality of each part <i>*If tests fail, replace parts accordingly</i>			x	
24	SSR				x	
25	Motor				x	
26	Pump				x	
27	Group head nozzle	Check and clean if any foreign matter / scale on the nozzle hole			x	
28	Water pressure gauge	Check and clean, if any foreign matter / scale on the gauge inlet tube hole			x	
29	Steam pressure gauge	Check and clean, if any foreign matter / scale residual on the gauge inlet tube hole			x	
30	Main power switch	Check functionality of each part <i>*If tests fail, replace parts accordingly</i>			x	
31	Main IC board				x	
32	Operation control IC board				x	
33	Flow rate setting switch				x	
34	Boiler	Check and clean, if any foreign matter / scale on the boiler, especially the welding positions			x	
35	Espresso machine	1) Cleaning 2) Replace broken/malfunctioning parts 3) Water or steam flow leakage inspection and all operation function test				x