



Preventive Maintenance Swiss Egro 50 Series

V 2.2



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1. Preventive Maintenance

Preventive maintenance (PM) ensures a continuous good quality of coffee products and reduces the unscheduled break downs of the coffee machine. During preventive maintenance recommended services will be done and necessary spare parts will be exchanged. Moreover it simplifies the organisation of the maintenance and the spare parts logistics.

The bases for preventing maintenance are our service kits, along with all necessary spare parts. These are available as "PM Service kit" and "PM Extension kit".

The preventive maintenance is controlled by the number of brewing cycles, counted in the coffee machine. Reaching the number of cycles, the coffee machine is indicating following message in the display "PM Service Req."

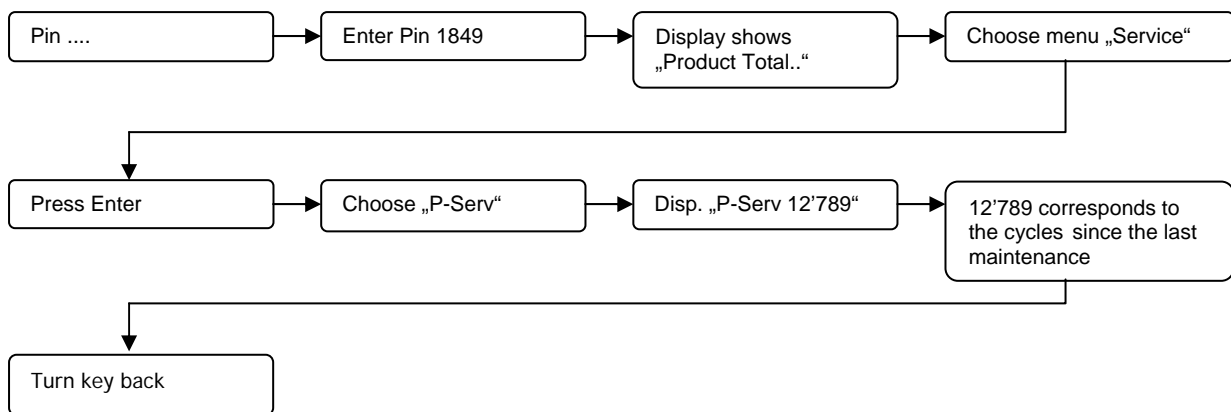
Egro Coffee System AG recommends adjusting the maximum brewing cycles for preventive maintenance to 15'000 cycles. For coffee machines with the brewing unit "NBUP" (New Brewing Unit Project) the number of cycles will be with 25'000.

The brewing cycles depend on various criteria as regularity of brewing, composition of water, cleaning product, climatic conditions, etc. Egro Coffee System AG recommend, in case of unfavorable conditions, to adjust the number of brewing cycles.

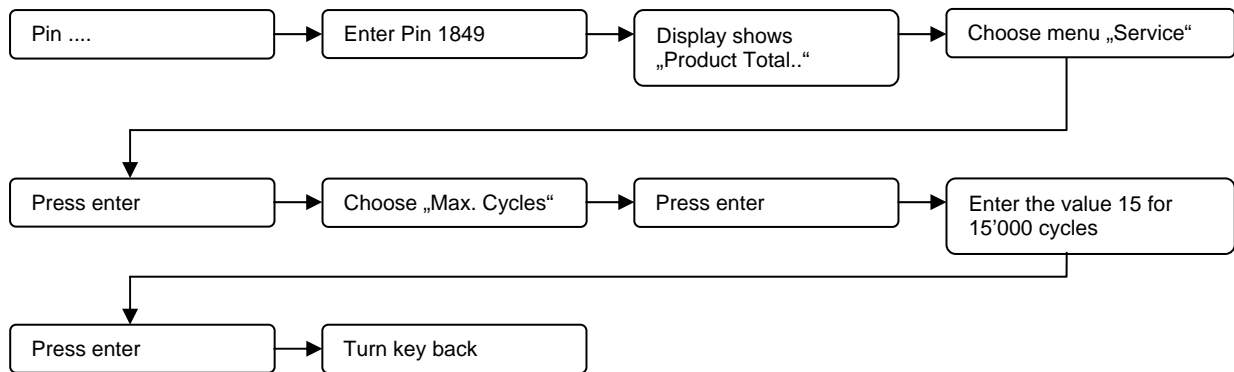
2. Programming manual

Put the machine in programming mode (mode 4).

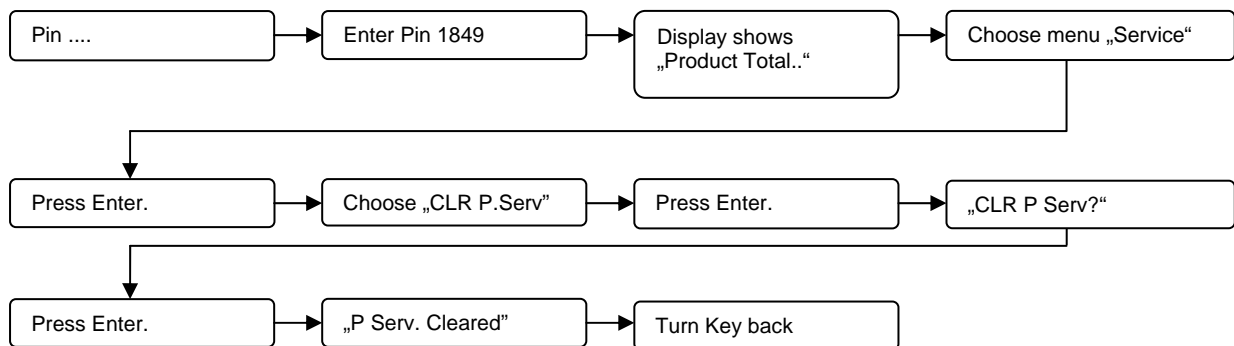
Readout the brewing cycles: The parameter "P-Serv" informs how many brewing cycles the coffee machine has done, since the last maintenance.



Adjust the maximum cycles: By entering the maximum number of brewing cycles the service counter is activated. The input of the value 15 corresponds with 15'000 brewing cycles. With reaching of this 15'000 brewing cycles the display shows the message "PM Service Req." and the customer has to inform the service organization. The number of brewing cycles has to be adapted depending upon application and environment of the coffee machine.



Reset the brewing cycles: After preventive maintenance was accomplished, the cycle counter will be reset to zero and activated again.



3. Service table

There are service kits for all types of the series 50. Additional there are extension kits available. Both kits contain the requested exchange and spare parts.

In the following table you can see which kit has to be used with appropriate brewing cycles or years.

15'000 cycles or after 1 year	30'000 cycles or after 2 years	45'000 cycles or after 3 years	60'000 cycles or after 4 years	75'000 cycles or after 5 years	90'000 cycles or after 6 years
PM service kit	PM service kit	PM service kit & PM extension kit	PM service kit	PM service kit	PM service kit & PM extension kit

With brewing unit "NBUP"

25'000 cycles or after 1 year	50'000 cycles or after 2 years	75'000 cycles or after 3 years	100'000 cycles or after 4 years	125'000 cycles or after 5 years	150'000 cycles or after 6 years
PM service kit	PM service kit	PM service kit PM extension kit	PM service kit	PM service kit	PM service kit PM extension kit

4. Maintenance table

Assembly	Description	Control	Clean	Decalcify if necessary	Lubricate*	Replace
PM service kit	Every PM					
Housing	Cover		•			
	Bean hopper		•			
	Grounds drawer		•			
	Trip tray		•			
Brewing unit	Brewing unit		•			
Upper piston motor	Spindel		•		•(1)	
	Upper piston		•			
	Brewing sieve					•
	O-Ring for piston					•
	Turcon gasket					•
	Piston motor sensors	•				
	Ejector		•			
Lower piston motor	Spindel		•		•(1)	
	Brewing piston		•			
	Brewing sieve					•
	O-Rings for brewing piston				•(3)	•
	Turcon gasket (NBUP)					•
	Piston motor sensors	•				
Boiler coffee / tea	Boiler	•		•		
	Expansion valve					•
	Brewing valve	•	•	•		
	Brewing valve plunger					•
	O-Ring for brewing valve housing				•(2)	
	O-Ring for the connection brewing valve - boiler				•(2)	•
	Tea valve	•		•		
	Tea valve plunger					•
	O-Ring for tea valve housing				•(2)	
	Non return valve boiler inlet	•				
Boiler steam	Boiler gasket	•				
	Heating element	•				
	Non return valve boiler inlet	•				
	Level sensor		•			

Assembly	Description	Control	Clean	Decalcify if necessary	Lubricate*	Replace
Steam valve block	O-Ring for vacuum valve					•
	Pressure switch	•				
	Pressure relief valve	•				
	Steam valves	•				
Grinder	Grinder	•	•			
Cold water block	Water pump	•				
	Cold water valves	•				
	Tubes and connections	•				
Milk system	Milk frother	•	•			
	Silikon tubes					•
	Teflon tubes					•
Refrigerator	Milk sensor	•	•			
	Milk pumps	•	•			
	Air foam valve		•			
	Air pump	•				
	Switch valve	•				
	Non return valve	•				

PM extension kit	Every third PM					
The following maintenance actions have to be done additionally.						
Steam valve block	Plunger for steam valve					•
	O-Ring for steam valve block					•
	Pressure switch					•
	Gasket for pressure relief valve					•
	Pressure relief valve					•
	Threaded male connector					•
Steam boiler	Boiler inlet					•
	Steam boiler gasket					•
	O-Ring for steam boiler					•
	Level sensor					•
Milk system	Milk foamer					•

* see Lubricant table

5. Lubricant table

The lubricant table informs which lubricant has to be used where. By the use of not specified lubricants, you can shorten the life time extremely.

Type	Description	Declaration	ID-No.	Thermal Range	Area of application
1	High performance lubricant	Berulub FG-H 2 SL	059246	-45 to +160°C	All connections: Boiler fittings, tea- and steam wand, piston motors <i>Non Food Area</i>
2	High performance lubricant	Berulub SIHAF 2	059245	-45 to +160°C	For all rubber seals like: NBR, EPDM, Viton <i>Inapplicable for Silicon O-Ring!</i>
3	Synth. Assembly Grease	Klübersynht UH1 64-2403	054567	-30 to +140°C	Lower Piston O-Ring <i>Do not use with EPDM rubbers!</i>

6. PM Service kits

The service and extension kit are available in the spare parts catalogue of our Webshop.

Serie	PM service kit	PM extension kit
5011 / 5031	ID 060942	
5021 / 5023 / 5033	ID 060943	ID 060944
5025 / 5035	ID 060945	ID 060946
5012P / 5031P	ID 060947	ID 060948
5021P / 5023P / 5033P	ID 060949	ID 060950
5025P / 5035P	ID 060951	ID 060952

7. PM Service kits content

Series 50

Description	Assembly group	Service kit			Extension kit	
		ID 060942	ID 060943	ID 060945	ID 060944	ID 060946
		5011	5023	5025	5023	5025
2 way plunger T22	Tea / steam valve	1	3	2		
3 way plunger T22	Brewing valve	1	1	1		
3 way plunger low tension spring	Steam valve			1		
Copper gasket	Relief valve				1	1
Expansion valve 11 bar	Coffee boiler	1	1	1		
Gasket kit brewing unit	Brewing unit	1	1	1		
Level sensor 180 mm	Steam boiler				1	1
Milk foamer	Milk system				1	1
Non return valve	Boiler				2	2
O-Ring seal Vacuum valve	Vacuum valve		1	1		
Pressure switch 1.3 bar	Steam boiler				1	1
Relief valve	Steam valve block				1	1
Silicon hose 6,0 x 3,0 mm, rosa	Milk system		1	1		
Silicon hose 6,0 x 3,0 mm, white	Air foam valve		1	1		
Silicon hose 7,0 x 3,0 mm white	Milk system KS			1		
Silicon hose 7,0 x 4,0 mm blue	Milk system		1			
T Hose connector 12-6-12	Drain system				2	2
T Hose connector 6-6-6	Drain system					1
Teflon pipe 4,0 x 2,5 mm	Milk system KS			2		

Series 50P

Description	Assembly group	Service kit			Extension kit		
		ID 060947	ID 060949	ID 060951	ID 060948	ID 060950	ID 060952
		5012P	5023P	5025P	5012P	5023P	5025P
2 way plunger T30	Tea valve	1	1	1			
2 way plunger Steam T30	Steam valve block	1	1	1			
3 way plunger Steam T30	Steam valve block		2	2			
3 way plunger T30	Brewing valve	1	1	1			
Copper gasket	Relief valve				1	1	1
Expansion valve	Coffee boiler	1	1	1			
Gasket kit brewing unit	Brewing unit	1	1	1			
Level sensor 140 mm	Steam boiler				1	1	1
Milk foamer	Milk system					2	2
Non return valve	Boiler				2	2	2
O Ring seal	Steam valve block				2	2	2
O-Ring seal	Brewing valve	2	2	2			
O-Ring seal Vacuum valve	Vacuum valve	1	1	1			
Pressure switch 1.5 bar	Steam valve block				1	1	1
Relief valve, steam	Steam valve block				1	1	1
Silicon hose 6,0 x 3,0 mm, rosa	Milk system		2	2			
Silicon hose 6,0 x 3,0 mm, white	Air foam valve		1	1			
Silicon hose 7,0 x 3,0 mm white	Milk system KS			2			
Silicon hose 7,0 x 4,0 mm blue	Milk system		2				
Steam boiler gasket	Steam boiler				1	1	1
T Hose connector 12-6-12	Drain system				1	2	2
T Hose connector 6-6-6	Drain system					1	1
Teflon pipe 4,0 x 2,5 mm	Milk system KS			3			
Threaded male nipple 6 x G1/8	Steam valve block				2	2	2