

## MARINER Suggestions for service for the SCHAERER parts

Item	Object	Part NR.	Checkpoints
1.	2kW steam generator for hot water (boiler)	063300	<ul style="list-style-type: none"> <li>The boiler has to <u>be replaced</u> (not only descaled) latest after 36 month or latest after 140'000 beverages. The test certificate has to stay with the machine. If the boiler gets changed, also the certificate has to be changed. Boiler Nr. and certificate Nr. has to be equal. <u>Never repair a boiler.</u></li> <li>Once per year the boiler has to be checked optically. <ul style="list-style-type: none"> <li>➤ Tightness: can somewhere lime be seen</li> <li>➤ The check-up has to be noted down in the test certificate</li> </ul> </li> </ul>
2.	<ul style="list-style-type: none"> <li>Tube water inlet-heater</li> <li>(Also any other tubes which are likely to get blocked with lime particularly the tub to the over pressure valve)</li> </ul>	063204	<ul style="list-style-type: none"> <li>The tube is very likely to get blocked with lime. Because of that take the tube once per year out of the boiler and check it optically particularly the small holes on the side.</li> </ul>
3.	Valve 2way	063215	<ul style="list-style-type: none"> <li>replace the valve latest after 12 month or 45'000 beverages</li> </ul>
4.	Over pressure valve	065240	<ul style="list-style-type: none"> <li>replace the valve latest after 12 month or 45'000 beverages</li> </ul>
5.	Grinder motor	062431	<ul style="list-style-type: none"> <li>Check after 12 month or 45'000 beverages the function "empty bean"</li> <li>Replace the motor after 36 month or 140'000 beverages</li> </ul>
6.	Grinder	065050	<ul style="list-style-type: none"> <li>Check after 12 month or 45'000 beverages the grind. If the grind can't adjusted it, replace the grinder knives (both)</li> </ul>
7.	Brewer	065000	<ul style="list-style-type: none"> <li>check after 12 month or 45'000 beverages tightness and general functions, if necessary replace the upper and lower piston</li> <li>Replace the O-rings 065190 and grease gently the new ones with the grease 065399</li> <li>Replace the O-rings 065191: <b><u>on those O-rings do not put any grease on</u></b></li> <li>Suggestion: replace the brewer after 70'000 cycles</li> </ul>
8.	Piston motor	062609	<ul style="list-style-type: none"> <li>Check after 12 month ore 45'000 beverages if the drive shaft has some play</li> <li>Replace the motor after 100'000 cycles</li> </ul>

### Recommendations for service

- Check pump pressure 7-7.5bar
- Coffee temperature first and second
- Quality of the grind
- Quantity of the grind
- Amount of water in the cup

### Pleas be sure that:

- The hardness of the water is not more than 8-12°FH ore 4-6°dH
- Chloride is not more than 100mmg/litre
- The electric voltage is in the rang of +/- 5% (for the brewer motor)