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# Updates

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Description</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>2010-07-12</td>
<td>First version developed</td>
<td>BPA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Introduction
You are holding the service manual for WM70.C washing machines. It should be easy to service a washing machine. It is important that you, as a service technician, are provided the necessary conditions to work in an efficient and satisfactory manner. Our hope is that this service manual will prove a useful tool in your daily work. The type plate is located on the inside of the front door (see image below).

Asko Appliances AB
SE-534 82 Vara
Sweden
General product information

In conjunction with the introduction of the WM70.C (August 2010), our washing machines have been altered in a number of areas. Here we present the changes to the wash drum and wash agitators.

• Larger wash drum:
  - 60 litres (previously 50 litres)
  - 23 mm deeper; the drum is now 343 mm deep in total (previously 320 mm)
  - 30 mm larger diameter; 480 mm in total (previously 450 mm)

• New drum hole pattern to cause as little wear as possible on clothing.

• New agitators that improve the wash process.

  All cylinder holes flanged to reduce wear on textiles.

  Area with large holes (3.7 mm) to remove larger objects, such as grit.

  Area with smaller holes (2.2 mm) to reduce wear on textiles.

  The angle of the edge of the cylinder, combined with the shape of the agitators, moves the load towards the middle of the drum. This improves drum balance and reduces wear on textiles.

  Hourglass-shaped agitators:
  • Move the load towards the smaller, gentler holes in the middle of the drum.
  • Move larger objects, such as grit, towards the larger holes at the edges of the drum.
General product information (cont.)

- Automatic detergent compartment cleaning
  - Cleaned after every ten wash cycles between the main wash and the first rinse.

- Ready for automatic dosing
Troubleshooting strategy
At Asko, we believe in always remaining focused on the customer, and as an ASKO service technician, you are one of the most important ambassadors of our brand. As such, it is important that the customer finds the service callout a pleasant experience. Troubleshooting is an important part of the service callout, and as such we have drawn up a troubleshooting strategy that describes, in broad terms and step by step, what you need to do to find and diagnose faults.

- Ask the customer to describe the problem.
- Check whether the customer’s description matches any service code.

- Check that the machine is correctly installed:
  - Electrical connection
  - Drainage
  - Water connection
  - Machine correctly levelled

Fault found? Yes

Fault found? No

Fault diagnosed? Yes

Fault diagnosed? No

Repair and check function/safety.

Contact technical support for assistance.

Carry out the actions suggested by technical support.

Satisfied customer!
Programmes: A total of twenty-two programmes, three of which can be customised via the service menu. A maximum of ten programmes can be activated/available to the end user at the same time.

Settings: Four (Language, Child-safe start, Automatic door opening, Temperature)

Knob and button descriptions

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programme selector</td>
<td>Turn clockwise or anti-clockwise to cycle through the different programmes and options in the various menus.</td>
</tr>
</tbody>
</table>
| Start/Stop button | • Start programme  
• Stop programme. Press and hold for 3 seconds. |
| Key button | • Opens the door once the programme has ended.  
• Opens the door during a programme to add more laundry.  
• Confirm selection in the settings and service menus. |

LCD description

<table>
<thead>
<tr>
<th>Programme name</th>
<th>Temperature</th>
<th>Spin speed</th>
<th>Estimated remaining time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal wash</td>
<td>60°C</td>
<td>1600</td>
<td>2:20</td>
</tr>
</tbody>
</table>
Programme tables

The tables present a few examples of the energy, water and time consumption of a few different programmes. Consumption can vary depending on water pressure, water hardness, water supply temperature, room temperature, the type and amount of laundry, and variations in the power supply. The stated times are approximate.

Machine connected to cold water, 6 kg

<table>
<thead>
<tr>
<th>Programme</th>
<th>Degree of filling (kg)</th>
<th>Spin (rpm)</th>
<th>Time (min)</th>
<th>Energy consumption (kWh)</th>
<th>Water consumption</th>
<th>Rinses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Normal wash 60°C *</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>158</td>
<td>1.14</td>
<td>80</td>
<td>5</td>
</tr>
<tr>
<td>Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Normal wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>150</td>
<td>0.65</td>
<td>80</td>
<td>5</td>
</tr>
<tr>
<td>Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Heavy wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>85</td>
<td>2.05</td>
<td>75</td>
<td>3</td>
</tr>
<tr>
<td>4. Heavy wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>65</td>
<td>1.20</td>
<td>65</td>
<td>3</td>
</tr>
<tr>
<td>5. White wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>70</td>
<td>1.70</td>
<td>65</td>
<td>3</td>
</tr>
<tr>
<td>6. White/Colour wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>60</td>
<td>0.80</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>7. White/Colour wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>55</td>
<td>0.50</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>8. Super quick wash 60°C</td>
<td>3 kg cotton</td>
<td>800</td>
<td>30</td>
<td>0.60</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>9. Super quick wash 40°C</td>
<td>3 kg cotton</td>
<td>800</td>
<td>25</td>
<td>0.35</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>10. Synthetics 40°C</td>
<td>3 kg synthetics</td>
<td>800</td>
<td>25</td>
<td>0.30</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>11. Wool/hand 30°C</td>
<td>2 kg wool</td>
<td>800</td>
<td>30</td>
<td>0.35</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>12. Rinse programme</td>
<td>3 kg cotton</td>
<td>Max.</td>
<td>15</td>
<td>0.10</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>13. MOP wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>65</td>
<td>1.70</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>14. MOP wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>45</td>
<td>0.85</td>
<td>45</td>
<td>2</td>
</tr>
<tr>
<td>15. Micro fibre wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>0.80</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>16. Micro fibre wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>45</td>
<td>0.45</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>17. Disinfection 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>70</td>
<td>0.75</td>
<td>70</td>
<td>3</td>
</tr>
<tr>
<td>18. Disinfection 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>80</td>
<td>1.35</td>
<td>70</td>
<td>3</td>
</tr>
<tr>
<td>19. Disinfection 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>100</td>
<td>2.30</td>
<td>80</td>
<td>3</td>
</tr>
<tr>
<td>20. Programme A</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Programme B</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Programme C</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Programme tested in accordance with EN 60456/A11/A12/.
Programme tables (cont.)

Machine attached to hot and cold water, 6 kg

<table>
<thead>
<tr>
<th>Programme</th>
<th>Degree of filling (kg)</th>
<th>Spin (rpm)</th>
<th>Time (min)</th>
<th>Energy consumption (kWh)</th>
<th>Water consumption (hot/cold)</th>
<th>Rinses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Normal wash 60°C *</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>158</td>
<td>1.14</td>
<td>0</td>
<td>80</td>
</tr>
<tr>
<td>Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Normal wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>150</td>
<td>0.65</td>
<td>0</td>
<td>80</td>
</tr>
<tr>
<td>Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Heavy wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>80</td>
<td>1.80</td>
<td>6</td>
<td>69</td>
</tr>
<tr>
<td>4. Heavy wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>60</td>
<td>0.95</td>
<td>6</td>
<td>59</td>
</tr>
<tr>
<td>5. White wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>58</td>
<td>1.10</td>
<td>16</td>
<td>49</td>
</tr>
<tr>
<td>6. White/Colour wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>48</td>
<td>0.20</td>
<td>16</td>
<td>44</td>
</tr>
<tr>
<td>7. White/Colour wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>0.25</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>8. Super quick wash 60°C</td>
<td>3 kg cotton</td>
<td>800</td>
<td>27</td>
<td>0.45</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>9. Super quick wash 40°C</td>
<td>3 kg cotton</td>
<td>800</td>
<td>22</td>
<td>0.20</td>
<td>6</td>
<td>34</td>
</tr>
<tr>
<td>10. Synthetics 40°C</td>
<td>3 kg synthetics</td>
<td>800</td>
<td>23</td>
<td>0.20</td>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>11. Wool/hand 30°C</td>
<td>2 kg wool</td>
<td>800</td>
<td>30</td>
<td>0.35</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>12. Rinse programme</td>
<td>3 kg cotton</td>
<td>Max.</td>
<td>15</td>
<td>0.10</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>13. MOP wash 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>53</td>
<td>1.10</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>14. MOP wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>33</td>
<td>0.25</td>
<td>16</td>
<td>29</td>
</tr>
<tr>
<td>15. Micro fibre wash 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>38</td>
<td>0.20</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>16. Micro fibre wash 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>40</td>
<td>0.20</td>
<td>12</td>
<td>38</td>
</tr>
<tr>
<td>17. Disinfection 40°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>65</td>
<td>0.50</td>
<td>6</td>
<td>64</td>
</tr>
<tr>
<td>18. Disinfection 60°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>75</td>
<td>1.10</td>
<td>6</td>
<td>64</td>
</tr>
<tr>
<td>19. Disinfection 90°C</td>
<td>6 kg cotton</td>
<td>Max.</td>
<td>95</td>
<td>2.05</td>
<td>6</td>
<td>74</td>
</tr>
<tr>
<td>20. Programme A</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Programme B</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Programme C</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Programme tested in accordance with EN 60456/A11/A12/.
Programme tables (cont.)

Machine connected to cold water; 8 kg

<table>
<thead>
<tr>
<th>Programme</th>
<th>Degree of filling (kg)</th>
<th>Spin (rpm)</th>
<th>Time (min)</th>
<th>Energy consumption (kWh)</th>
<th>Water consumption</th>
<th>Rinses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Normal wash 60°C *</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>185</td>
<td>1.20</td>
<td>82</td>
<td>5</td>
</tr>
<tr>
<td>2. Normal wash 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>175</td>
<td>0.70</td>
<td>82</td>
<td>5</td>
</tr>
<tr>
<td>3. Heavy wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>100</td>
<td>2.60</td>
<td>80</td>
<td>3</td>
</tr>
<tr>
<td>4. Heavy wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>80</td>
<td>1.40</td>
<td>70</td>
<td>3</td>
</tr>
<tr>
<td>5. White wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>75</td>
<td>1.95</td>
<td>70</td>
<td>3</td>
</tr>
<tr>
<td>6. White/Colour wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>60</td>
<td>1.05</td>
<td>65</td>
<td>3</td>
</tr>
<tr>
<td>7. White/Colour wash 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>55</td>
<td>0.75</td>
<td>65</td>
<td>3</td>
</tr>
<tr>
<td>8. Super quick wash 60°C</td>
<td>4 kg cotton</td>
<td>800</td>
<td>35</td>
<td>0.80</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>9. Super quick wash 40°C</td>
<td>4 kg cotton</td>
<td>800</td>
<td>30</td>
<td>0.55</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>10. Synthetics 40°C</td>
<td>4 kg cotton</td>
<td>800</td>
<td>25</td>
<td>0.35</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>11. Wool/hand 30°C</td>
<td>3 kg wool</td>
<td>800</td>
<td>30</td>
<td>0.35</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>12. Rinse programme</td>
<td>4 kg cotton</td>
<td>Max.</td>
<td>15</td>
<td>0.10</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>13. MOP wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>70</td>
<td>1.90</td>
<td>55</td>
<td>2</td>
</tr>
<tr>
<td>14. MOP wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>1.00</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>15. Micro fibre wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>60</td>
<td>1.00</td>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>16. Micro fibre wash 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>55</td>
<td>0.65</td>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>17. Disinfection 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>80</td>
<td>0.95</td>
<td>75</td>
<td>3</td>
</tr>
<tr>
<td>18. Disinfection 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>90</td>
<td>1.75</td>
<td>75</td>
<td>3</td>
</tr>
<tr>
<td>19. Disinfection 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>110</td>
<td>2.90</td>
<td>85</td>
<td>3</td>
</tr>
</tbody>
</table>

*Programme tested in accordance with EN 60456/A11/A12/*
Programme tables (cont.)

Machine attached to hot and cold water, 8 kg

<table>
<thead>
<tr>
<th>Programme</th>
<th>Degree of filling (kg)</th>
<th>Spin (rpm)</th>
<th>Time (min)</th>
<th>Energy consumption (kWh)</th>
<th>Water consumption (hot/cold)</th>
<th>Rinses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Normal wash 60°C * Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>185</td>
<td>1.20</td>
<td>0</td>
<td>82</td>
</tr>
<tr>
<td>2. Normal wash 40°C Programme for labelling (also standard programme for Swan-labelled machines)</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>175</td>
<td>0.70</td>
<td>0</td>
<td>82</td>
</tr>
<tr>
<td>3. Heavy wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>95</td>
<td>2.35</td>
<td>7</td>
<td>73</td>
</tr>
<tr>
<td>4. Heavy wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>75</td>
<td>1.15</td>
<td>7</td>
<td>63</td>
</tr>
<tr>
<td>5. White wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>58</td>
<td>1.35</td>
<td>18</td>
<td>52</td>
</tr>
<tr>
<td>6. White/Colour wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>48</td>
<td>0.30</td>
<td>18</td>
<td>47</td>
</tr>
<tr>
<td>7. White/Colour wash 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>0.30</td>
<td>14</td>
<td>51</td>
</tr>
<tr>
<td>8. Super quick wash 60°C</td>
<td>4 kg cotton</td>
<td>800</td>
<td>30</td>
<td>0.60</td>
<td>12</td>
<td>33</td>
</tr>
<tr>
<td>9. Super quick wash 40°C</td>
<td>4 kg cotton</td>
<td>800</td>
<td>25</td>
<td>0.35</td>
<td>7</td>
<td>33</td>
</tr>
<tr>
<td>10. Synthetics 40°C</td>
<td>4 kg synthetics</td>
<td>800</td>
<td>23</td>
<td>0.35</td>
<td>5</td>
<td>40</td>
</tr>
<tr>
<td>11. Wool/hand 30°C</td>
<td>3 kg wool</td>
<td>800</td>
<td>30</td>
<td>0.35</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>12. Rinse programme</td>
<td>4 kg cotton</td>
<td>Max.</td>
<td>15</td>
<td>0.10</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>13. MOP wash 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>60</td>
<td>1.25</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>14. MOP wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>40</td>
<td>0.35</td>
<td>18</td>
<td>32</td>
</tr>
<tr>
<td>15. Micro fibre wash 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>0.30</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>16. Micro fibre wash 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>50</td>
<td>0.30</td>
<td>14</td>
<td>41</td>
</tr>
<tr>
<td>17. Disinfection 40°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>75</td>
<td>0.70</td>
<td>7</td>
<td>68</td>
</tr>
<tr>
<td>18. Disinfection 60°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>85</td>
<td>1.50</td>
<td>7</td>
<td>68</td>
</tr>
<tr>
<td>19. Disinfection 90°C</td>
<td>8 kg cotton</td>
<td>Max.</td>
<td>105</td>
<td>2.65</td>
<td>7</td>
<td>78</td>
</tr>
<tr>
<td>20. Programme A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Programme B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Programme C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Programme tested in accordance with EN 60456/A11/A12/.
### Programme descriptions

<table>
<thead>
<tr>
<th>Programme designation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Normal wash 60°C</td>
<td>Programme for normally to heavily soiled laundry, whites and colours. Follow the washing instructions for each garment. 60°C is a good temperature for garments worn next to the skin. This programme has five rinses.</td>
</tr>
<tr>
<td>2. Normal wash 40°C</td>
<td>Programme for normally to heavily soiled laundry, whites and colours. Follow the washing instructions for each garment. This programme has five rinses.</td>
</tr>
<tr>
<td>3. Heavy wash 90°C</td>
<td>Programme for heavily soiled laundry, with dirt that needs to be fully dissolved before the main wash. A pre-wash is used to do this.</td>
</tr>
<tr>
<td>4. Heavy wash 60°C</td>
<td>Programme for heavily soiled laundry, with dirt that needs to be fully dissolved before the main wash. A pre-wash is used to do this.</td>
</tr>
<tr>
<td>5. White wash 90°C</td>
<td>Programme for normally to heavily soiled laundry. Follow the washing instructions for each garment. 90°C is a good temperature for white and light-coloured cotton, such as bed linen.</td>
</tr>
<tr>
<td>6. White/Colour wash 60°C</td>
<td>Programme for normally soiled laundry, whites and colours. Follow the washing instructions for each garment. 60°C is a good temperature for garments worn next to the skin.</td>
</tr>
<tr>
<td>7. White/Colour wash 40°C</td>
<td>Programme for normally soiled laundry, whites and colours. Follow the washing instructions for each garment.</td>
</tr>
<tr>
<td>8. Super quick wash 60°C</td>
<td>Fast programme for laundry that just needs freshening up. Follow the washing instructions for each garment. Garments worn next to the skin ought to be washed at 60°C.</td>
</tr>
<tr>
<td>9. Super quick wash 40°C</td>
<td>Fast programme for laundry that just needs freshening up. Follow the washing instructions for each garment.</td>
</tr>
<tr>
<td>10. Synthetics 40°C</td>
<td>Programme for synthetics, delicate blended materials and permanent press cotton. Suitable for shirts and blouses. Follow the washing instructions for each garment. Many synthetics will come clean at 40°C.</td>
</tr>
<tr>
<td>11. Wool/hand 30°C</td>
<td>A gentle laundry programme for wool, silk and garments that should be washed by hand. This programme has a short spin.</td>
</tr>
<tr>
<td>12. Rinse programme</td>
<td>This programme performs one cold rinse cycle + spin. Suitable for laundry that just needs to be dampened.</td>
</tr>
<tr>
<td>13. MOP wash 60°C</td>
<td>Programme suitable for different types of mop. The programme has two rinses using much water.</td>
</tr>
<tr>
<td>14. MOP wash 90°C</td>
<td>Programme suitable for different types of mop. The programme has two rinses using much water.</td>
</tr>
<tr>
<td>15. Micro fibre wash 60°C</td>
<td>Programme for laundry made of micro fibres, such as micro-fibre cloths. The programme has three rinses with much water in the first rinse.</td>
</tr>
<tr>
<td>16. Micro fibre wash 40°C</td>
<td>Programme for laundry made of micro fibres, such as micro-fibre cloths. The programme has three rinses with much water in the first rinse.</td>
</tr>
<tr>
<td>17. Disinfection 40°C</td>
<td>Programme where the temperature reached during the main wash is maintained for 20 minutes. Disinfection at this temperature requires special detergent.</td>
</tr>
<tr>
<td>18. Disinfection 60°C</td>
<td>Programme where the temperature reached during the main wash is maintained for 20 minutes. Disinfection at this temperature requires special detergent.</td>
</tr>
<tr>
<td>19. Disinfection 90°C</td>
<td>Programme where the temperature reached during the main wash is maintained for 10 minutes. This temperature is sufficient for disinfection without special detergent.</td>
</tr>
<tr>
<td>20. Programme 20</td>
<td>Custom</td>
</tr>
<tr>
<td>21. Programme 21</td>
<td>Custom</td>
</tr>
<tr>
<td>22. Programme 22</td>
<td>Custom</td>
</tr>
</tbody>
</table>
Settings

Opening the settings menu

Is the machine on? First turn off the power at the main power switch (S1).
Press and hold the Key button (S5) while simultaneously pressing the main power switch (S1).

Press the Key button (S5) 5 times within 10 seconds. The settings menu now opens.

Choosing a setting (an example)

1. Turn the programme selector (J1) to cycle through the settings menu options.
2. Press the Key button (S5) to select an item in the settings menu.
3. Turn the programme selector (J1) to cycle through the different options for that setting.
4. Press the Key button (S5) to select one of the settings.
5. Press the Start/Stop button (S4) to save the settings and return to the programme menu.

Service menu content

<table>
<thead>
<tr>
<th>Language</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>US English</td>
<td>Note: The language used under “Special” in the service menu is not changed (English only).</td>
</tr>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Svenska</td>
<td></td>
</tr>
<tr>
<td>Dansk</td>
<td></td>
</tr>
<tr>
<td>Norsk</td>
<td></td>
</tr>
<tr>
<td>Suomi</td>
<td></td>
</tr>
<tr>
<td>Français</td>
<td></td>
</tr>
<tr>
<td>Deutsch</td>
<td></td>
</tr>
<tr>
<td>Italiano</td>
<td></td>
</tr>
<tr>
<td>Espanol</td>
<td></td>
</tr>
<tr>
<td>Русский</td>
<td></td>
</tr>
<tr>
<td>Nederlands</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Child-safe</th>
<th>You can temporarily disable Child-safe start by pressing the Start/Stop button and the Key button simultaneously.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child-safe Off</td>
<td></td>
</tr>
<tr>
<td>Child-safe On</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Door opening</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Door opening Off</td>
<td></td>
</tr>
<tr>
<td>Door opening On</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>°C/°F</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>°F</td>
<td></td>
</tr>
</tbody>
</table>
## Service menu

### Opening the service menu

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Start/Stop + På/Av" /></td>
<td>If the machine is on: First turn off the power at the main power switch (S1). Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (S1).</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Start/Stop × 5" /></td>
<td>Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.</td>
<td></td>
</tr>
</tbody>
</table>

### Navigating the service menu

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image" alt="Programme Selector" /></td>
<td>Turn the programme selector (J1) to cycle through the different service menu options.  - 1 Service  - 2 Settings  - 3 Special</td>
</tr>
<tr>
<td>2</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Key button (S5) to select an option in the service menu.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image" alt="Programme Selector" /></td>
<td>Turn the programme selector (J1) to cycle through the different settings.</td>
</tr>
<tr>
<td>4</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Key button (S5) to select a setting.</td>
</tr>
<tr>
<td>5</td>
<td><img src="image" alt="Programme Selector" /></td>
<td>Turn the programme selector (J1) to select one of the options.</td>
</tr>
<tr>
<td>6</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Key button (S5) to confirm/save or go back one step.</td>
</tr>
<tr>
<td>7</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Start/Stop button (S4) to return to the programme menu or use the programme selector to make additional choices.</td>
</tr>
</tbody>
</table>

**NB:**

The different options in the service menu vary in terms of the number of alternative selections and settings.
### Service menu content

<table>
<thead>
<tr>
<th>1 Service</th>
<th>11 Info SP: XXXX</th>
<th>Date the software was programmed (Year_Week)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM: XXXX</td>
<td>Date of manufacture of the control unit (Year_Week)</td>
<td></td>
</tr>
<tr>
<td>SW:</td>
<td>Software version</td>
<td></td>
</tr>
<tr>
<td>SW:</td>
<td>Software version</td>
<td></td>
</tr>
<tr>
<td>NC:</td>
<td>Number of cycles/programmes run</td>
<td></td>
</tr>
<tr>
<td>NC 1:</td>
<td>Number of cycles for Programme 1</td>
<td></td>
</tr>
<tr>
<td>NC 2:</td>
<td>Number of cycles for Programme 2</td>
<td></td>
</tr>
<tr>
<td>NC 3:</td>
<td>Number of cycles for Programme 3</td>
<td></td>
</tr>
<tr>
<td>NC 4:</td>
<td>Number of cycles for Programme 4</td>
<td></td>
</tr>
<tr>
<td>NC 5:</td>
<td>Number of cycles for Programme 5</td>
<td></td>
</tr>
<tr>
<td>NC 6:</td>
<td>Number of cycles for Programme 6</td>
<td></td>
</tr>
<tr>
<td>NC 7:</td>
<td>Number of cycles for Programme 7</td>
<td></td>
</tr>
<tr>
<td>NC 8:</td>
<td>Number of cycles for Programme 8</td>
<td></td>
</tr>
<tr>
<td>NC 9:</td>
<td>Number of cycles for Programme 9</td>
<td></td>
</tr>
<tr>
<td>NC 10:</td>
<td>Number of cycles for Programme 10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12 Fault scenarios</th>
<th>Fault 1</th>
<th>Shows current fault. The display shows Fault name_Programme number_Number of cycles_Index number. Example: Thermistor fault_Pr5_9_(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fault 2</td>
<td></td>
<td>Error messages are erased from the system during a total reset.</td>
</tr>
<tr>
<td>Fault 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13 Diagnostics</th>
<th>Test</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Test valve 1</td>
<td>Inlet valve 1 is open.</td>
<td></td>
</tr>
<tr>
<td>Test valve 2</td>
<td>Inlet valve 2 is open.</td>
<td></td>
</tr>
<tr>
<td>Test valve 3</td>
<td>Inlet valve 3 is open.</td>
<td></td>
</tr>
<tr>
<td>Test valve SM</td>
<td>Inlet valve 1 and 2 are open.</td>
<td></td>
</tr>
<tr>
<td>Test heater</td>
<td>Heater on up to max. 60°C.</td>
<td></td>
</tr>
<tr>
<td>Test motor</td>
<td>The motor normally runs at 49 rpm.</td>
<td></td>
</tr>
<tr>
<td>Test drain</td>
<td>The drainage pump runs.</td>
<td></td>
</tr>
<tr>
<td>Test spin</td>
<td>The machine runs a spin sequence, the drainage pump runs.</td>
<td></td>
</tr>
<tr>
<td>Test door</td>
<td>The door lock is activated and the door opens. Returns to the programme menu.</td>
<td></td>
</tr>
</tbody>
</table>

| 14 Total reset | The machine is restored to its factory settings. Returns to the programme menu after Total reset. |

| 15 ABC reset | The custom programmes (Pr20-Pr22) are reset. Returns to the programme menu after ABC reset. |

Return Press the Key button (S5) to return to 1 Service.

<table>
<thead>
<tr>
<th>2 Settings</th>
<th>21 Water inlet</th>
<th>Cold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hot</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>22 Max RPM</th>
<th>400 rpm</th>
<th>This function only works for programmes Pr1-Pr19.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>600 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>800 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1300 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1400 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1500 rpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1600 rpm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>23 Drain Pump</th>
<th>Valve</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Service menu content (cont.)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>24 Show temp</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>25 Change temp</strong></td>
</tr>
<tr>
<td><strong>26 Programs</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>27 Spin time</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>28 Coin</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>29 Reset</strong></td>
</tr>
</tbody>
</table>

**Return**
Press the Key button (S5) to return to 2 Settings.

### 3 Special

#### Pr 20

| **34 Pre wash** | Number of | 0/1/2/3 |
| Water level | Normal water level/High water level |
| Time | 1/2/3/4/.... /15 |
| Heat temp | No heat/25°C/26°C/.... /60°C |

**Return**

#### Pr 21

See above

#### Pr 22

See above

**Return**
Press the Key button (S5) to return to 3 Special.
## Notes for custom programmes

Make a note of the settings you make when creating custom programmes (Pr20, 21, 22).

Save these notes for future reference!

Save this note close to the machine.

<table>
<thead>
<tr>
<th>Pr 20</th>
<th>34 Pre wash</th>
<th>341. Number of</th>
<th>342. Water level</th>
<th>343. Time</th>
<th>344. Heat temp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36 Rinses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>37 Extra spin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>38 Spin speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>39 Spin time</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pr 21</th>
<th>34 Pre wash</th>
<th>341. Number of</th>
<th>342. Water level</th>
<th>343. Time</th>
<th>344. Heat temp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>36 Rinses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37 Extra spin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>38 Spin speed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>39 Spin time</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pr 22</th>
<th>34 Pre wash</th>
<th>341. Number of</th>
<th>342. Water level</th>
<th>343. Time</th>
<th>344. Heat temp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>36 Rinses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37 Extra spin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>38 Spin speed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>39 Spin time</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Making a custom programme

You can make three custom programmes. This is done in the service menu. In order for the new programme to be made available, one of the existing programmes must be deactivated, that is, set to “Off”, and the new programme set to “On”. See also the “3 Special” section of the “Service menu content” chapter.

### Opening the service menu

If the machine is on: First turn off the power at the main power switch (S1).
Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (S1).

Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.

### Programming

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Turn the programme selector (J1) to “3 Special”.</td>
</tr>
<tr>
<td>2</td>
<td>Press the Key button (S5) to open the “3 Special” menu.</td>
</tr>
<tr>
<td>3</td>
<td>Turn the programme selector (J1) to cycle through the different options: Pr20, Pr21, Pr22 and Return.</td>
</tr>
<tr>
<td>4</td>
<td>Press the Key button (S5) to open one of the options, Pr20, Pr21 or Pr22. Now you can create your programme by selecting from the various options and settings.</td>
</tr>
<tr>
<td>5</td>
<td>Turn the programme selector (J1) to cycle through the different menus: -34 Pre wash -35 Main wash -36 Rinses -37 Extra spin -38 Spin speed -39 Spin time Return</td>
</tr>
<tr>
<td>6</td>
<td>Press the Key button to open one of the menus.</td>
</tr>
<tr>
<td>7</td>
<td>Turn the programme selector (J1) to cycle through the different menu options.</td>
</tr>
<tr>
<td>8</td>
<td>Press the Key button to save the setting and return to the previous menu level. Repeat steps 5 to 8 to program the remaining settings.</td>
</tr>
<tr>
<td>9</td>
<td>Once you have finished creating the programme, press the Start/Stop button (S4) to return to the programme menu.</td>
</tr>
</tbody>
</table>
## Activate the new programme

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image" alt="Start/Stop + På/Av" /></td>
<td>If the machine is on: First turn off the power at the main power switch (S1). Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (S1).</td>
</tr>
<tr>
<td>2</td>
<td><img src="image" alt="Start/Stop × 5" /></td>
<td>Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Turn the programme selector (J1) to “2 Settings”.</td>
</tr>
<tr>
<td>4</td>
<td><img src="image" alt="Key button" /></td>
<td>Press the Key button (S5) to open the “2 Settings” menu.</td>
</tr>
<tr>
<td>5</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Turn the programme selector (J1) to “26 Programs”.</td>
</tr>
<tr>
<td>6</td>
<td><img src="image" alt="Key button" /></td>
<td>Press the Key button (S5) to open the “26 Programs” menu.</td>
</tr>
<tr>
<td>7</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Turn the programme selector (J1) to select the programme you want to deactivate.</td>
</tr>
<tr>
<td>8</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Key button to open the menu.</td>
</tr>
<tr>
<td>9</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Turn the programme selector to “Off” to deactivate the programme.</td>
</tr>
<tr>
<td>10</td>
<td><img src="image" alt="Key button" /></td>
<td>Press the Key button (S5) to confirm/save.</td>
</tr>
<tr>
<td>11</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Activate your new programme by turning the programme selector to the programme you want to activate.</td>
</tr>
<tr>
<td>12</td>
<td><img src="image" alt="Start/Stop" /></td>
<td>Press the Key button to open the menu.</td>
</tr>
<tr>
<td>13</td>
<td><img src="image" alt="Programme selector" /></td>
<td>Turn the programme selector to “On” to activate the programme.</td>
</tr>
<tr>
<td>14</td>
<td><img src="image" alt="Key button" /></td>
<td>Press the Key button to confirm/save.</td>
</tr>
</tbody>
</table>
## Fault indicators

<table>
<thead>
<tr>
<th>Error message</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Over flow fault</strong></td>
<td>Too much water in the machine.</td>
<td>Service action:</td>
</tr>
<tr>
<td></td>
<td>The drainage pump is running but the machine is empty.</td>
<td>Check the machine's level system, inlet valve and drainage pump.</td>
</tr>
</tbody>
</table>
| **Water outlet fault** | • The drainage pump has been running for 3 minutes. Water remains in the machine.  
  • The wash cycle is stopped and the programme is reset. | 1. Check that nothing is stuck in the drainage hose outlet.              |
|                        |                                                                      | 2. Check that the drainage pump is not blocked by foreign objects.      |
|                        |                                                                      | 3. Check that there are no kinks in the drainage hose.                   |
|                        |                                                                      | Service action:                                                        |
|                        |                                                                      | 1. If the pump only runs for a short while (approximately 20 seconds), this indicates a fault in the level system. Check the level sensor and hoses.  
  2. Check the wiring and voltage to the pump. If necessary, replace the pump and/or control unit.  
  3. After taking corrective action, run the Drain programme or press the Key (door opening) button to empty the machine. |
| **Water inlet fault**  | If the correct water level is not achieved within five minutes the wash cycle will be stopped. | 1. Check that the tap on the water pipe is open.                        |
|                        |                                                                      | Service action:                                                        |
|                        |                                                                      | 1. Check that the filter in the machine's water intake is not blocked.   |
|                        |                                                                      | 2. Check the inlet valve. If necessary, replace the valve.               |
|                        |                                                                      | 3. Check the voltage to the inlet valve. If there is no voltage, this could be due to a fault in the level system, wiring or control unit. |
| **Security fault**     | The door is open                                                      | Close the door                                                          |
| **Thermistor fault**   | 1. Thermistor circuit open  
  2. Thermistor malfunction  
  3. The measurement value for the thermistor is <300Ω (>120°C) | Service action:                                                        |
|                        |                                                                      | Check the thermistor. Replace if necessary.                            |
| **Temperature fault**  | The temperature has increased < 5°C in ten minutes  
  The wash cycle should continue to the next step of the programme. | Service action:                                                        |
|                        |                                                                      | Check the thermistor, heater, wiring and level system.                  |
| **Wash motor fault**   | No signal from the tacho or MCU.                                      | Service action:                                                        |
|                        |                                                                      | Check the output signal from the MCU and the wiring between the motor and the MCU. |
| **Pressure fault**     | Indicated if the level drops to zero within 30 seconds of the first rinse. | Service action:                                                        |
|                        |                                                                      | Check for leaks.                                                       |
Components and measurement values

<table>
<thead>
<tr>
<th>Item number</th>
<th>Component</th>
<th>Measurement value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 658 33</td>
<td>CIM motor</td>
<td>Resistances:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pins 1-3 stator 3.7 Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pins 1-2 stator 3.6 Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pins 2-3 rotor 3.6 Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pins 4-5 tacho 178 Ω</td>
<td></td>
</tr>
<tr>
<td>80 617 03</td>
<td>Heating element 2000 W</td>
<td></td>
<td>The thermistor for measuring temperature is located between the motor cradle and the drum. The thermistor measures and controls the water temperature, which can vary from 0 to 92°C. The heater is disconnected if the thermistor is short-circuited or disconnected from the programme control card.</td>
</tr>
<tr>
<td>80 617 04</td>
<td>Heating element 1000 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 761 02</td>
<td>Thermistor</td>
<td>6.1–3.8 kΩ (at room temperature 20–30°C)</td>
<td></td>
</tr>
<tr>
<td>88 012 63</td>
<td>Drainage pump 50 Hz</td>
<td>144 Ω</td>
<td></td>
</tr>
<tr>
<td>88 012 64</td>
<td>Drainage pump 60 Hz</td>
<td>76 Ω</td>
<td></td>
</tr>
<tr>
<td>80 782 21</td>
<td>Level switch</td>
<td></td>
<td>Electromechanical level switch with two levels (see wiring diagram). Used to indicate levels for door opening, heat and overflow.</td>
</tr>
<tr>
<td>80 762 02</td>
<td>EMC filter 50/60 Hz</td>
<td>680 Ω</td>
<td>The filter eliminates interference to and from the machine.</td>
</tr>
<tr>
<td>80 793 24</td>
<td>Inlet valve</td>
<td>3.7 kΩ ± 0.5 kΩ</td>
<td>Two-way inlet valve, 8 litres/minute</td>
</tr>
<tr>
<td>80 798 73</td>
<td>Door lock</td>
<td>122 Ω</td>
<td>The door lock is electromechanical and equipped with a magnet.</td>
</tr>
<tr>
<td>80 833 15</td>
<td>One-way inlet valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 818 07</td>
<td>Motor control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 806 28</td>
<td>Control unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 833 43</td>
<td>Communication unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 083 65</td>
<td>Outlet valve</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Thermistor measurement values

<table>
<thead>
<tr>
<th>Temp, °C</th>
<th>Resistance, ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15806</td>
</tr>
<tr>
<td>10</td>
<td>9634</td>
</tr>
<tr>
<td>20</td>
<td>6046</td>
</tr>
<tr>
<td>25</td>
<td>4841</td>
</tr>
<tr>
<td>30</td>
<td>3900</td>
</tr>
<tr>
<td>40</td>
<td>2579</td>
</tr>
<tr>
<td>50</td>
<td>1744</td>
</tr>
<tr>
<td>60</td>
<td>1204</td>
</tr>
<tr>
<td>70</td>
<td>848</td>
</tr>
<tr>
<td>80</td>
<td>609</td>
</tr>
<tr>
<td>85</td>
<td>519</td>
</tr>
</tbody>
</table>
Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>850 mm</td>
</tr>
<tr>
<td>Width</td>
<td>595 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>585 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>73 kg</td>
</tr>
<tr>
<td>Cylinder volume</td>
<td>60 l</td>
</tr>
<tr>
<td>Max. load capacity</td>
<td>8 kg/6 kg</td>
</tr>
<tr>
<td>Spin speed</td>
<td>800–1600</td>
</tr>
<tr>
<td>Connection</td>
<td>1-phase 16 A, 3-phase 10 A</td>
</tr>
<tr>
<td>Heater output</td>
<td>2000 W/3000 W</td>
</tr>
<tr>
<td>Water pressure/inlet valve</td>
<td>0.1–1 MPa, 1–10 kp/cm², 10–100 N/cm² 8 l/min</td>
</tr>
<tr>
<td>Wash drum and liquid compartment</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Outer panels</td>
<td>Powder-coated and hot-galvanised sheet steel or stainless steel</td>
</tr>
<tr>
<td>Installation</td>
<td>Stationary on four adjustable, rubber-clad feet</td>
</tr>
<tr>
<td>Water connection</td>
<td>1.5 m PEX tubing, 3/4“–3/4“ or 3/4“–1/2“</td>
</tr>
<tr>
<td>Drainage</td>
<td>1.7 m polypropylene tubing</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP X4</td>
</tr>
</tbody>
</table>
| Water consumption (tested normal programme) | 59 litres, 3 rinses (5 kg/6 kg  
<72 litres, 5 rinses (6 kg)  
<69 litres, 5 rinses (5 kg) |
| Water consumption (tested normal programme) | 1.02 kWh (6 kg)  
0.95 kWh (5 kg) |
| Electricity consumption, Standby: | - Machine turned off  
- Delayed start  
- Programme ended |
|                                | <0.3 W  
<6.0 W  
<3.0 W |

Tools

<table>
<thead>
<tr>
<th>Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torx: T25, T20, T10</td>
</tr>
<tr>
<td>Ring spanner: 11/16&quot;, 16 mm, 13 mm, 10 mm</td>
</tr>
<tr>
<td>Socket screwdriver 10 mm</td>
</tr>
<tr>
<td>Extended socket 24 mm + ratchet handle</td>
</tr>
<tr>
<td>Allen key 5 mm + small ratchet handle</td>
</tr>
<tr>
<td>Plastic hammer</td>
</tr>
<tr>
<td>Phillips screwdriver</td>
</tr>
<tr>
<td>Wire cutter</td>
</tr>
</tbody>
</table>
RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F)
VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRESSION FILTER  680K Ohm
EL 1: HEATING ELEMENT  25 Ohm
EL 2: HEATING ELEMENT  52 Ohm
AP: PUMP 60 Hz  76 Ohm
RP: RECIRCULATION PUMP 60 Hz  76 Ohm
AV: DRAIN VALVE  110/134 Ohm
LL: DOOR LOCK, 1-2  122 Ohm
NTC: THERMISTOR  6.1 - 3.8 K Ohm
IV 1: INLET VALVE 1  3.7 K Ohm
IV 2: INLET VALVE 2  3.7 K Ohm
MO: MOTOR, 1-3  4.3±7% Ohm
MCU: MOTOR CONTROL UNIT
N: PRESSURE SWITCH
TS: PRESSURE SENSOR
TG: TACHO GENERATOR
BA: CONTAINER
INKB: INCOMING GROUND
CI: COMMUNICATIONS INTERFACE

USER SETTINGS MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S5
TURN ON POWER (S1)
PRESS S5 5 TIMES TO ENTER MENU

SERVICE MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S4
TURN ON POWER (S1)
PRESS S4 5 TIMES TO ENTER SERVICE MENU
PRESS DOOR OPENING (S5) TO CHANGE MENU STEP
ROTATE DIAL TO CHANGE IN STEP
PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

2010-05-20
CIRCUIT DIAGRAM WM70.C WC US/CA
80 893 65 - 00
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Asko Appliance AB

CIRCUIT DIAGRAM WM70.C US/CA

80 896 25 - 00

2010-05-20
WIRES IN ALL MACHINES
WIRES IN SOME MACHINES
INTERNAL CONNECTION

CABLE POSITIONS
1: MOTOR COMMUNICATION
2: THERMISTOR
3: INLET VALVES
4: DOOR LOCK, DRAIN PUMP, PREASSURE SWITCH
5: COMMUNICATION INTERFACE
6: COIN COLLECTOR
7: MOTOR
8: POWER
9: HEATING ELEMENT, PREASSURE SWITCH
10: MOTOR POWER

RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F)
VALUES WITHIN ±10% ARE REGARDED AS NORMAL COMPONENT

<table>
<thead>
<tr>
<th></th>
<th>RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>680k Ohm</td>
</tr>
<tr>
<td>EL1</td>
<td>25 Ohm</td>
</tr>
<tr>
<td>EL2</td>
<td>52 Ohm</td>
</tr>
<tr>
<td>AP</td>
<td>76 Ohm</td>
</tr>
<tr>
<td>RP</td>
<td>76 Ohm</td>
</tr>
<tr>
<td>AV</td>
<td>110/134 Ohm</td>
</tr>
<tr>
<td>LL</td>
<td>122 Ohm</td>
</tr>
<tr>
<td>NTC</td>
<td>6.1 - 3.8 K Ohm</td>
</tr>
<tr>
<td>IV1</td>
<td>3.7 K Ohm</td>
</tr>
<tr>
<td>IV2</td>
<td>3.7 K Ohm</td>
</tr>
<tr>
<td>MO</td>
<td>4.3±7% Ohm</td>
</tr>
</tbody>
</table>
| MCUs Motor Control Unit | N: PRESSURE SWITCH
| TS: PRESSURE SENSOR
| TG: TACHO GENERATOR
| BA: CONTAINER
| INKB: INCOMING GROUND
| CI: COMMUNICATION INTERFACE

CABLE POSITIONS:
1: MOTOR COMMUNICATION
2: THERMISTOR
3: INLET VALVES
4: DOOR LOCK, DRAIN PUMP, PREASSURE SWITCH
5: COMMUNICATION INTERFACE
6: COIN COLLECTOR
7: MOTOR
8: POWER
9: HEATING ELEMENT, PREASSURE SWITCH
10: MOTOR POWER

USER SETTINGS MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S5
TURN ON POWER (S1)
PRESS S5 5 TIMES TO ENTER MENU

SERVICE MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S4
TURN ON POWER (S1)
PRESS S4 5 TIMES TO ENTER SERVICE MENU
PRESS DOOR OPENING (S5) TO CHANGE MENU STEP
ROTATE DIAL TO CHANGE IN STEP
PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

2010-05-20
CIRCUIT DIAGRAM WM70.C WC US/CA
80 893 65 - 00
CIRCUIT DIAGRAM WM70.C MARINE

RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F)
VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

- F: RADIO INTERFERENCE SUPPRESSION FILTER 680K Ohm
- EL1: HEATING ELEMENT 25 Ohm
- EL2: HEATING ELEMENT 52 Ohm
- AP: DRAIN PUMP 76 Ohm
- AV: DRAIN VALVE 110/134 Ohm
- LL: DOOR LOCK, DRAIN PUMP, PREASSURE SWITCH 122 Ohm
- NTC: THERMISTOR 6.1 - 3.8 K Ohm
- IV1: INLET VALVE 1 3.7 K Ohm
- IV2: INLET VALVE 2 3.7 K Ohm
- IV3: INLET VALVE 3 3.5 K Ohm
- MO: MOTOR, 1-3 4.3±7% Ohm
- MCU: MOTOR CONTROL UNIT 4.3±7% Ohm
- TS: PRESSURE SENSOR 4.3±7% Ohm
- TG: TACHO GENERATOR 4.3±7% Ohm
- BA: CONTAINER 4.3±7% Ohm
- INKB: INCOMING GROUND 4.3±7% Ohm
- MCU: MOTOR CONTROL UNIT
- TS: PRESSURE SENSOR
- TG: TACHO GENERATOR
- BA: CONTAINER
- INKB: INCOMING GROUND
- T: TRANSFORMER 440/230V 50/60Hz

SERVICE MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S4
TURN ON POWER (S1)
PRESS S4 5 TIMES TO ENTER SERVICE MENU
PRESS DOOR OPENING (S5) TO CHANGE MENU STEP
ROTATE DIAL TO CHANGE IN STEP
PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

USER SETTINGS MENU
TURN OFF POWER (S1)
WAIT FOR AT LEAST 5 SEC
HOLD S5
TURN ON POWER (S1)
PRESS S5 5 TIMES TO ENTER MENU

2010-05-20
CIRCUIT DIAGRAM WM70.C MARINE
80 896 27 - 00

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Panel and control card replacement

1. Attach the anti-static wristband to a part of the machine that is earthed!

NB: An anti-static wristband must be used, otherwise you risk destroying the control card.

2. Undo the three screws holding the top cover in place.

3. Remove the top cover.

4. Use a screwdriver to carefully free the panel. As you do so, carefully angle the panel outwards.

5. Remove the panel and the cables. NB: Don’t forget to remove the pressure sensor tube.
Panel and control card replacement (cont.)

6. Carefully pull the programme selector from the panel.

5. Use a screwdriver to free the control card from the panel. NB: The control card must be placed in an ESD-safe bag.

6. Check that the push button, lens and decorative inlay are in place. Now carefully press the new control card into place. NB: Don’t forget to replace the rubber seal.
Wash agitator removal

When replacing or cleaning the wash agitators, or when removing items that have fallen through the wash drum, first you need to remove the agitators. Follow the instructions below.

1. Insert a screwdriver or the like into the hole on the agitator as illustrated and carefully pry to the left.

2. Use your other hand to grasp the agitator and pull it towards you.
3. Lift the agitator.
4. Remove any foreign objects.

5. Place the agitator in the mounting hole with the letter F towards you. Ensure that all the agitator fasteners are in their holes in the drum. Push it away from you until it fastens.