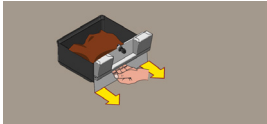
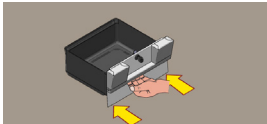

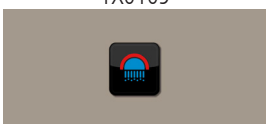




## 4. Chassis



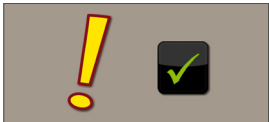
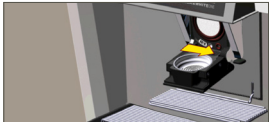


## SECTION 6

## 4.1 Error messages chassis

Error no. / picture	Text	Possible causes and fixes
TX0104 	Empty grounds drawer	<b>Grounds drawer full</b> <ul style="list-style-type: none"> <li>Remove grounds drawer, empty, reinsert (wait min. 5 seconds)</li> </ul> <b>No magnet on grounds drawer</b> <ul style="list-style-type: none"> <li>Mount new magnet</li> </ul> <b>Magnet switch on chassis defective</b> <ul style="list-style-type: none"> <li>Go to service menu and check „System Check“ -&gt; „Ground Drawer detected“: OK = ✓ not detected = ✗</li> <li>If ✗, replace magnet switch</li> </ul> <b>Cable between magnet switch and CPU has short circuit</b> <ul style="list-style-type: none"> <li>Check cable and replace if necessary</li> </ul>
TX0106 	Grounds drawer missing	<b>Grounds drawer not inserted correctly</b> <ul style="list-style-type: none"> <li>Remove grounds drawer, empty, reinsert (wait min. 5 seconds)</li> </ul> <b>No magnet on grounds drawer</b> <ul style="list-style-type: none"> <li>Mount magnet again</li> </ul> <b>Magnet switch on chassis defective</b> <ul style="list-style-type: none"> <li>Go to service menu and check „System Check“ -&gt; „Ground Drawer detected“: OK = ✓ not detected = ✗</li> <li>If ✗, replace magnet switch</li> </ul> <b>Cable between magnet switch and CPU has short circuit</b> <ul style="list-style-type: none"> <li>Check cable and replace if necessary</li> </ul>
TX0108 	Service required	<b>Amount of brew cycles for service programmed in machine has been reached</b> <ul style="list-style-type: none"> <li>Provide annual service on machine. Reset counter in service menu „Statistics“, to delete message. Machine starts counter again from 0.</li> </ul>
TX0109 	Clean appliance	<b>Since the first product dispensing 48 hours have passed (coffee products only) or 24 hours have passed (if milk products were dispensed).</b> <ul style="list-style-type: none"> <li>Machine must be cleaned to unlock.</li> </ul>
TX0110 	Voltage low	<b>Voltage too low, operation is stopped as soon as voltage is below the set tolerance (adjustable from 0-30%). If the voltage gets too low during a product dispensing, the product will be finished, then the operation stops.</b>
TX0111 	Voltage high	<b>Voltage too high, operation is stopped as soon as voltage is above the set tolerance (adjustable from 0-30%). If the voltage gets too high during a product dispensing, the product will be finished, then the operation stops.</b>

## 4. Chassis


## 4.1 Error messages chassis

Error no. / picture	Text	Possible causes and fixes
TX0113 	Piston error	<p><b>Incorrect brew unit movement (no move or too slow)</b></p> <ul style="list-style-type: none"> <li>• Check gear belt.</li> <li>• Remount gear belt correctly</li> <li>• If the gear belt is defective, replace</li> </ul> <p><b>Brew chamber is blocked</b></p> <ul style="list-style-type: none"> <li>• Check brew chamber and its spindle</li> <li>• Try moving the brew chamber by hand. Turn gear belt of the brew chamber drive.</li> <li>• Remove any obstructions in the brew chamber</li> <li>• Grease spindle with "Molykote E-Paste" Art. No. 101.979</li> </ul> <p><b>Mobile piston is blocked; brew cylinder cannot travel back to the micro switch</b></p> <ul style="list-style-type: none"> <li>• Check mobile piston (counterpart to fix piston, located inside of the brew chamber)</li> <li>• Check head of mobile piston for defects</li> <li>• Replace mobile piston</li> </ul> <p><b>The brew cylinder cannot travel over the fix piston</b></p> <ul style="list-style-type: none"> <li>• Check if fix piston is correctly mounted and in position</li> <li>• Check fix piston's cuff seal</li> <li>• Replace fix piston</li> </ul>
TX0117 	Change water filter	<p><b>Pre-set amount of water has flown through water filter</b></p> <ul style="list-style-type: none"> <li>• Change water filter, then reset counter in service menu</li> </ul>
TX0118 	Interface error	<p><b>„Interface“ is activated in software. Either wrong, defective or no payment interface connected</b></p> <ul style="list-style-type: none"> <li>• Check interface settings in service menu. If no interface is connected, switch option to „off“</li> </ul>
TX0131 	Cleaning interrupted Open POD	<p><b>Cleaning switch on POD on wrong side</b></p> <ul style="list-style-type: none"> <li>• Change POD's switch to product mode</li> </ul> <p><b>The reed switch of the cleaning switch has magnetic contact</b></p> <ul style="list-style-type: none"> <li>• The reed switch has a short circuit. Go to service menu and control „System Check“, „POD Switch“. Product mode = ✓ Cleaning mode = ✗</li> <li>• To check a short circuit or connection break of the reed switch by measurement, plug out reed switch</li> <li>• Check cable, position of the reed switch and the plug connections</li> </ul>
TX0136 	Please ask for assistance	<p><b>Only shows up in self-service mode so consumers do not try to fix the problem themselves.</b></p> <ul style="list-style-type: none"> <li>• Press and hold  until actual display message shows up. Follow orders or look the actual message up in error list for further information.</li> </ul>

## 4. Chassis

## SECTION 6

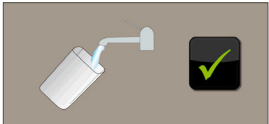
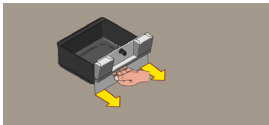
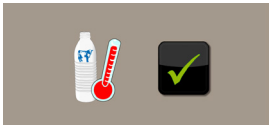
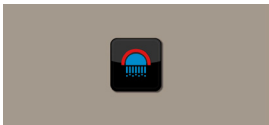

## 4.1 Error messages chassis

Error no. / picture	Text	Possible causes and fixes
TX0137 	Please add milk	<b>Milk is empty</b> <ul style="list-style-type: none"> <li>Refill milk</li> </ul> <b>Level sensor defective</b> <ul style="list-style-type: none"> <li>The milk suction tube has a cable break, is defective or the plug connection is interrupted. Check in the menu „System Check“ -&gt; „Milk level 1“ or „Milk level 2“ (for 2-milk system only). Milk detected = ✓, No milk detected = ✗</li> <li>To check an interrupt of the milk suction tube or the cable harness by measurement, disconnect milk suction tube or the part of the cable harness to be checked from the CPU.</li> </ul>
TX0139 	Bean hopper missing or command unit open	<b>Bean hopper is not mounted or the command desk is open</b> <ul style="list-style-type: none"> <li>Place bean hopper correctly</li> <li>Close command desk</li> </ul> <b>One or more than one of the three series connected reed switches (grinder left + right, control panel) have a cable break or no magnetic contact.</b>
TX0143 	Machine locked Start cleaning	<b>Since dispensing the first milk product after last cleaning 24 hours have passed (48 hours, if only coffee has been dispensed) and machine has to be cleaned. This daily cleaning cycle cannot and must not be avoided.</b>
TX0149 	Insert coffee pad	<b>Coffee machine preparing for dispensing a POD product</b> <ul style="list-style-type: none"> <li>Open POD, insert coffee pod, close POD</li> </ul>
TX0150 	Remove cleaning tablets	<b>Cleaning tablets are in cleaning key when cleaning not in progress</b> <ul style="list-style-type: none"> <li>Remove cleaning tablets from cleaning key. They must only be inserted during cleaning.</li> </ul> <b>Cable break in tablet sensor</b>
TX0153 	Cleaning done Standby	<b>After daily cleaning, the machine changes to standby mode</b> <ul style="list-style-type: none"> <li>Press OK to get the machine back to „Ready“ from standby</li> </ul>
TX0164 	Cleaning interrupted Please press rinse key	<b>Cleaning has been interrupted</b> <ul style="list-style-type: none"> <li>Press rinse key to restart cleaning procedure</li> </ul>

## 4. Chassis

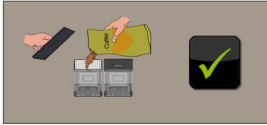

## SECTION 6

## 4.1 Error messages chassis

Error no. / picture	Text	Possible causes and fixes
TX0167 	Cleaning interrupted Remove grounds drawer	<b>Cleaning has been interrupted</b> <ul style="list-style-type: none"> <li>Remove and reinsert grounds drawer</li> </ul>
TX0174 	Remove and empty grounds drawer	<b>Grounds drawer has to be removed for next action</b> <ul style="list-style-type: none"> <li>Remove grounds drawer</li> </ul>
TX0188 	Check milk temperature	<b>Milk temperature too high</b> <ul style="list-style-type: none"> <li>Check milk temperature</li> <li>Switch on refrigerator</li> <li>Check temperature sensors</li> </ul>
TX0201 	Cold start rinse Please press rinse key	<b>Rinse for start- and warm-up of machine</b> <ul style="list-style-type: none"> <li>Press rinse key</li> </ul>
TX0241 	Machine rinsing ATTENTION HOT!	<b>Warning note during rinse</b> <ul style="list-style-type: none"> <li>Wait until rinse has finished</li> </ul>

## 5 Mechanical module

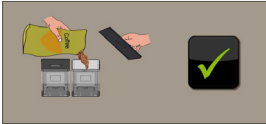


## 5.1 Error messages mechanical module

Error no. / picture	Text	Cause
TX0107 	Bean hopper empty (left-hand side)	<p><b>Cause: After grinding, the brew-chamber moves to far to the front.</b></p> <ul style="list-style-type: none"> <li>Check in menu "System Check" (see according section). Manual testing of the grinders by pressing the field "Grinder 1"</li> </ul> <p><b>After grinding, the brew cylinder moves completely over the fix piston (like in rinse)</b></p> <ul style="list-style-type: none"> <li>Check grinding position and powder way</li> </ul> <p><b>Grinder motor or starting condenser is defective</b> <b>Check if coffee beans are grinded</b></p> <ul style="list-style-type: none"> <li>Check gear belt, gear belt plates and voltage</li> </ul> <p><b>Grinder motor TRIAC (Triode for Alternating Current) on power print is defective</b></p> <ul style="list-style-type: none"> <li>Check cable connections between mechanical module - power print and CPU</li> </ul> <p><b>Gear belt of grinder motor is defective or not mounted</b></p> <ul style="list-style-type: none"> <li>Replace belt</li> </ul> <p><b>Axis of grinder is defective</b></p> <ul style="list-style-type: none"> <li>Replace axis</li> </ul> <p><b>The mobile piston within the brew chamber stays in its initial position (defect springs, adhesion of the mobile piston) and is blocking the powder window</b></p> <ul style="list-style-type: none"> <li>Check grinder position and powder way</li> <li>Replace springs</li> <li>Clean piston</li> </ul> <p><b>Wrong grinder position of the brew chamber</b></p> <ul style="list-style-type: none"> <li>Control of grinder position in service menu "Factory Settings", "Move brew chamber"</li> </ul> <p><b>Defective TRIAC (Triode for Alternating Current) on the power print</b></p>
TX0113 	Piston error	<p><b>Incorrect brew unit movement (no move or too slow)</b></p> <ul style="list-style-type: none"> <li>Check gear belt</li> <li>Remount gear belt correctly</li> <li>If the gear belt is defective, replace</li> </ul> <p><b>Brew chamber is blocked</b></p> <ul style="list-style-type: none"> <li>Check brew chamber and its spindle</li> <li>Try moving the brew chamber by hand. Turn gear belt of the brew chamber drive</li> <li>Remove any obstructions in the brew chamber</li> <li>Grease spindle with "Molykote E-Paste" Art. No. 101.979</li> </ul> <p><b>Mobile piston is blocked; brew cylinder cannot travel back to the micro switch</b></p> <ul style="list-style-type: none"> <li>Check mobile piston (counterpart to fix piston, located inside of the brew chamber)</li> <li>Check head of mobile piston for defects</li> <li>Replace mobile piston</li> </ul> <p><b>The brew cylinder cannot travel over the fix piston</b></p> <ul style="list-style-type: none"> <li>Check if fix piston is correctly mounted and in position</li> <li>Check fix piston's cuff seal</li> <li>Replace fix piston</li> </ul>

## 5 Mechanical module

## SECTION 6




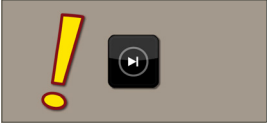
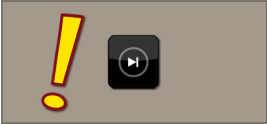
## 5.1 Error messages mechanical module

Error no. / picture	Text	Cause
TX0114 	Bean hopper empty (right-hand side)	<p><b>Cause: After grinding, the brew-chamber moves too far to the front.</b></p> <ul style="list-style-type: none"> <li>Check in menu "System Check" (see according section). Manual testing of the grinders by pressing the field "Grinder 2"</li> </ul> <p><b>After grinding, the brew cylinder moves completely over the fix piston (like in rinse)</b></p> <ul style="list-style-type: none"> <li>Check grinding position and powder way</li> </ul> <p><b>Grinder motor or starting condenser is defective</b> <b>Check if coffee beans are grinded</b></p> <ul style="list-style-type: none"> <li>Check gear belt, gear belt plates and voltage</li> </ul> <p><b>Grinder motor TRIAC (Triode for Alternating Current) on power print is defective</b></p> <ul style="list-style-type: none"> <li>Check cable connections between mechanical module - power print and CPU</li> </ul> <p><b>Gear belt of grinder motor is defective or not mounted</b></p> <ul style="list-style-type: none"> <li>Replace belt</li> </ul> <p><b>Axis of grinder is defective</b></p> <ul style="list-style-type: none"> <li>Replace axis</li> </ul> <p><b>The mobile piston within the brew chamber stays in its initial position (defect springs, adhesion of the mobile piston) and is blocking the powder window</b></p> <ul style="list-style-type: none"> <li>Check grinder position and powder way</li> <li>Replace springs</li> <li>Clean piston</li> </ul> <p><b>Wrong grinder position of the brew chamber</b></p> <ul style="list-style-type: none"> <li>Control of grinder position in service menu "Factory Settings", "Move brew chamber"</li> </ul> <p><b>Defective TRIAC (Triode for Alternating Current) on the power print</b></p>
TX0115 	Flow error	<p><b>Product dispensing error</b></p> <ul style="list-style-type: none"> <li>Try dispensing the product again</li> </ul> <p><b>Water flow too low</b></p> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged</li> </ul>
TX0116 	Overtime error	<p><b>Product is not dispensed correctly because of too long dispensing time</b></p> <ul style="list-style-type: none"> <li>Dispense product again</li> </ul> <p><b>Water flow too low</b></p> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged</li> </ul> <p><b>Check pump</b></p>

## 5 Mechanical module

## SECTION 6





## 5.1 Error messages mechanical module

Error no. / picture	Text	Cause
TX0119 	Powder error	<b>Coffee grounds of previous product in brew cylinder</b> <ul style="list-style-type: none"> <li>Perform rinse</li> </ul> <b>Grinders blocked</b> <ul style="list-style-type: none"> <li>Empty grounds drawer and vacuum grinders</li> </ul> <b>The grinded powder amount is too high, brew cylinder cannot close</b> <ul style="list-style-type: none"> <li>Reduce „powder amount“ (grinder time) in „Product settings“</li> </ul> <b>The CPU cannot produce the stopping power for the motor of the brew cylinder anymore, so the brew cylinder is being pressed open during the brewing cycle.</b>
TX0139 	Bean hopper missing or command unit open	<b>Bean hopper is not mounted or the command desk is open</b> <ul style="list-style-type: none"> <li>Place bean hopper correctly</li> <li>Close command desk</li> </ul> <b>One or more than one of the three series connected reed switches (grinder left + right, control panel) have a cable break or no magnetic contact.</b>
TX0145 	Add coffee beans Press ok to proceed product dispensing	<b>Run out of beans during product dispensing</b> <ul style="list-style-type: none"> <li>Refill beans and confirm with OK button</li> </ul>
TX0162 	Error grinder right-hand side	<b>Grinder error right-hand side</b> <ul style="list-style-type: none"> <li>Empty grounds drawer + vacuum grinders</li> <li>Perform rinse</li> <li>Check mechanical module</li> </ul>
TX0163 	Error grinder left-hand side	<b>Grinder error left-hand side</b> <ul style="list-style-type: none"> <li>Empty grounds drawer + vacuum grinders</li> <li>Perform rinse</li> <li>Check mechanical module</li> </ul>

## 6 Hydraulic module

## SECTION 6

## 6.1 Error messages hydraulic module






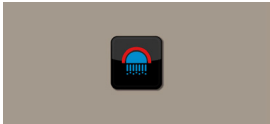
Error no. / picture	Text	Cause
TX0101 	NTC coffeeboiler open	<p><b>Temperature sensor NTC not connected</b></p> <ul style="list-style-type: none"> <li>Check temperature in „System Check“ -&gt; „Boiler temperature“ Reference value: 91 °C</li> </ul> <p><b>Temperature sensor NTC cable break</b></p> <ul style="list-style-type: none"> <li>Check temperature in „System Check“ -&gt; „Boiler temperature“ Reference value: 91 °C</li> </ul> <p><b>Temperature sensor NTC defective</b></p> <ul style="list-style-type: none"> <li>Check NTC on coffee boiler</li> </ul> <p><b>Hydraulic module is not connected properly</b></p> <p><b>Check cable harness and plug connectors</b></p> <ul style="list-style-type: none"> <li>To check a break of the NTC by measurement, the NTC has to be disconnected. Reference value: 10kΩ/25°C</li> </ul>
TX0115 	Flow error	<p><b>Product dispensing error</b></p> <ul style="list-style-type: none"> <li>Try dispensing the product again</li> </ul> <p><b>Water flow too low</b></p> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged in</li> </ul>
TX0116 	Overtime error	<p><b>Product is not dispensed correctly because of too long dispensing time</b></p> <ul style="list-style-type: none"> <li>Dispense product again</li> </ul> <p><b>Water flow too low</b></p> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged in</li> </ul> <p><b>Check pump</b></p>
TX0125 	Waterflow error	<p><b>No water pressure or flowmeter defective</b></p> <ul style="list-style-type: none"> <li>Open mains water connection</li> <li>Empty grounds drawer</li> <li>Perform rinse</li> </ul> <p><b>Water flow too low</b></p> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged in</li> </ul> <p><b>Check pump</b></p>



## 6 Hydraulic module

## SECTION 6

## 6.1 Error messages hydraulic module

Error no. / picture	Text	Cause
TX0141 	NTC coffee boiler short-circuit	<b>Temperature sensor NTC had a short circuit</b> <ul style="list-style-type: none"> <li>Check temperature in „System Check“ -&gt; „Boiler temperature“ Reference value: 91 °C</li> </ul> <b>Check cable harness and plug connectors</b> <ul style="list-style-type: none"> <li>To check a break of the NTC by measurement, the NTC has to be disconnected. Reference value: 10 kΩ / 25 °C</li> </ul> <b>Temperature sensor NTC defective</b> <ul style="list-style-type: none"> <li>Check NTC on coffee boiler</li> </ul>
TX0151 	No waterflow detected	<b>No water pressure or flowmeter defective</b> <ul style="list-style-type: none"> <li>Open mains water connection</li> <li>Empty grounds drawer</li> <li>Perform rinse</li> </ul> <b>Water flow too low</b> <ul style="list-style-type: none"> <li>Mains water blocked or connection closed</li> <li>The water inlet valve does not open or is defective</li> <li>The valve for the dispensed product does not open</li> <li>Flowmeter does not recognise water flow, impeller in flowmeter is blocked or cover is defective / not plugged</li> </ul> <b>Check pump</b>
TX0154 	Milk pump: no pulse	<b>Milk pump not recognised</b> <ul style="list-style-type: none"> <li>Check connectors</li> </ul>
TX0155 	Water pump: no pulse	<b>Milk pump not recognised</b> <ul style="list-style-type: none"> <li>Check connectors</li> </ul>
TX0161 	Please wait	<b>Machine rinses</b> <ul style="list-style-type: none"> <li>Wait until rinse is finished</li> </ul>
TX0201 	Cold start rinse Please press rinse key	<b>Rinse for start- and warm-up of machine</b> <ul style="list-style-type: none"> <li>Press rinse key</li> </ul>