

























① Fitted depending on features




| | | | | |
|---|------------------|--|-----------------|--------------------------------------|
| Designation Connection Diagram GV640 II. Gen | LCS EN | Document No. 5600 0001074481 | Rev B | Sheet-No. 1 of 1 |
| | | Material No. 9000505353 | | |

| Function | Actuation | Display | | | | Remarks | | |
|--------------------------------|-----------|---|-------------|---|-------------|---|--|---|
| Error class (failure group) | | In Customer Service program | | At Customer | | Appliance behaviour in error case | Results of internal appliance check | Measures |
| | | LED's | Display | LED | Display | | | |
| | | Act. Clean Sani End | |   | | | | |
| | | ○ ○ ○ | E:00 | | | | No error | |
| Interface | | | |   | | Blinking LED's at end of Flash process Stop in current position, no function | Communication issue within electronics | Power cord of the appliance has to be disconnected (to activate on/off from main switch is not enough!) > Verify D-Bus - connectors (3-pole) for electrical connection failure; > Disconnected power cord (plug out and then again plug in); > Repeat flash process; > Change Modul |
| Power module | | ○ ○  | E:01 | | E:01 | → End of program | Pump triggering or pump switching is defect | Change power module |
| | | | E:02 | | E:02 | Running w/o heating | Working relay of heating is defect | |
| | | | E:03 | | E:03 | Running w/o additional drying system. | Working relay of additional drying system is defect. | |
| | | | E:04 | | E:04 | Running w/o heating | Safety relay of heating is defect | |
| | | | E:05 | | E:05 | Water switch is running permanently Cancelation of program (Drain) | Impulses w/o activation Water switch triac defect | |

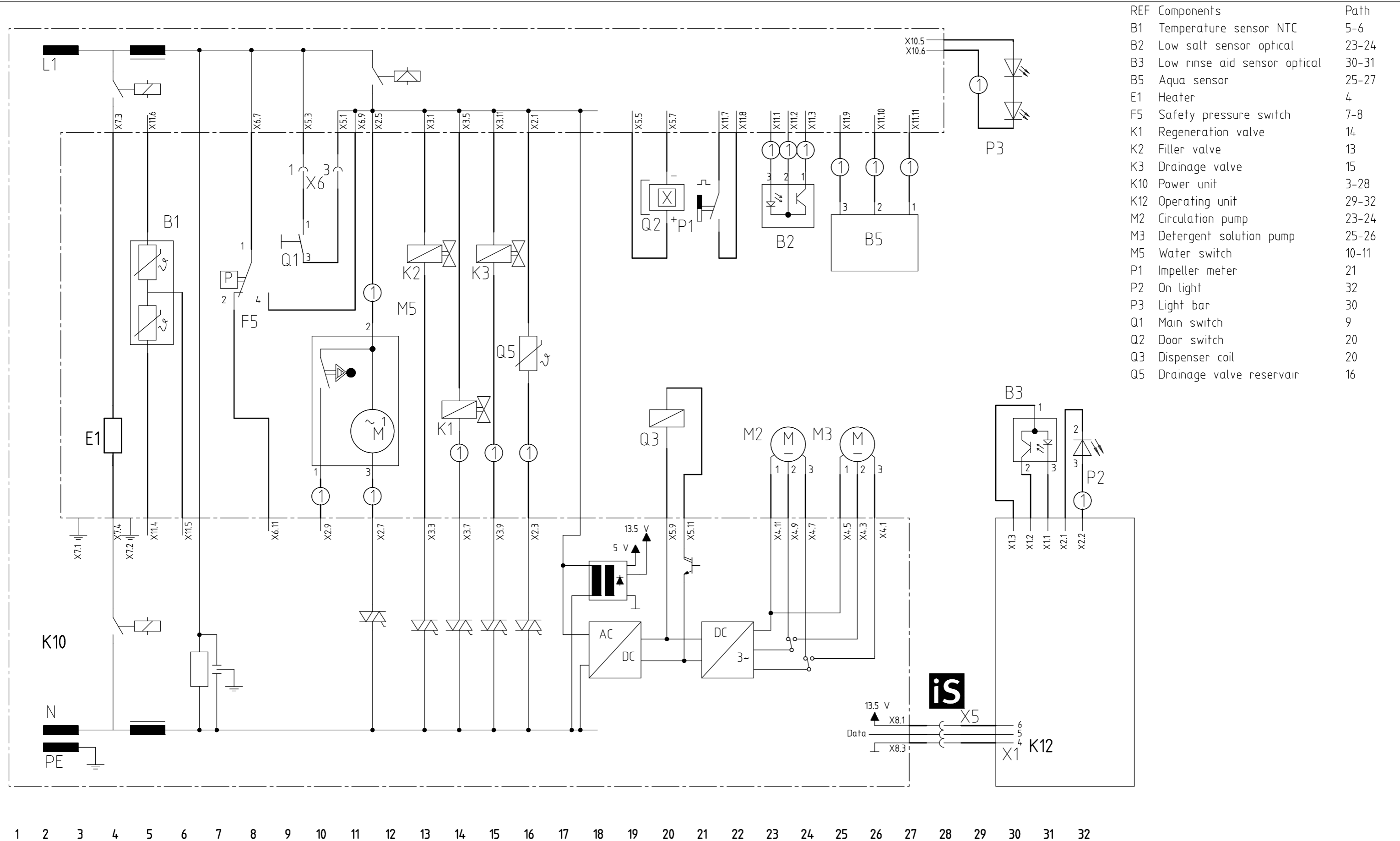
| Function | Actuation | Display | | | | Remarks | | | |
|--------------------------------|-----------|---|-------------|---|-------------|--|--|---|---|
| Error class (failure group) | | In Customer Service program | | At Customer | | Appliance behaviour in error case | Results of internal appliance check | Measures | |
| | | LED's | Display | LED | Display | | | | |
| | | Act. Clean Sani End | |   | | | | | |
| Door | |  | E:06 | | E:06 | Stop in current position, no function | Hall-sensor defect, wire disconnected or power module defect | Power module is functional ok, if plug is disconnected and Hall-sensor is feed with supply voltage. Otherwise change Hall-sensor. | |
| Heating | |  | E:07 | | E:07 | Function w/o additional drying-system. | Fan defect/blocked Fanelectronic defect | Check component / connection / Measure resistance => only dishwashers with additional drying system | |
| | | | E:08 | | | Function w/o heating. | Heat pump detects too low water level in sump. Low voltage | >heat exchanger drain valve is leaky >Overturned bowls / pots in appliance? No device error! | |
| | | | E:09 | | E:09 | | | Heating-circuit is intermittent (resistance, wire harness, safety relais pins on power module) | Measure heating resistance, check wires |
| | | | E:10 | | | Function w/o additional drying-system. | Heating-circuit additional drying system is intermittent (resistance/wire harness) Fanelectronic defect Failure in wire to fan | Check water hardness; if necessary decalcify and clean. On repeat change heat pump. Check component Connection? => only dishwashers with additional drying system | |
| | | | E:11 | | E:11 | Function w/o heating. | NTC-failure Failure in wire to NTC's | Measure NTC's, check wires. | |
| | | | E:12 | | | | | Reserved | |

| Function | Actuation | Display | | | | Remarks | | |
|--------------------------------|-----------|-----------------------------|-------------|---|---|--------------------------------------|--|--|
| Error class (failure group) | | In Customer Service program | | At Customer | | Appliance behaviour in error case | Results of internal appliance check | Measures |
| | | LED's | Display | LED | Display | | | |
| | | Act. Clean Sani End | |  |  | | | |
| | | | E:13 | | | | Water temperature too high (> 75°C) | Safety measure - no failure! Check water inlet temperature . |

| Function | Actuation | Display | Remarks | | | | | |
|--------------------------------|-----------|---|---|---|---------|--|---|--|
| Error class (failure group) | | In Customer Service program | | At Customer | | Appliance behaviour in error case | Results of internal appliance check | Measures |
| | | LED's | Display | LED | Display | | | |
| | | Act. Clean Sani End |  |  | | | | |
| Filling | |   | E:14 |  | E:14 | Program abort with draining | Flow sensor detects no impulses, even though circulation pump detects water. | Check wires, check flow sensor (Reed-switch) |
| | | | E:15 |  | E:15 | Program abort with interval pumping | Safety switch base carrier active. Appliance can't be turned off. | Look / Search for cause of water in base carrier |
| | | | E:16 | | E:16 | | Water inlet (impulses from flow sensor) w/o activation of filling valve. | Check filling valve. Check triggering of filling valve. |
| | | | E:17 | | E:17 | Program abort with draining | Water inlet amount according flow sensor too high | Check flow control in filling valve |
| | | | E:18 |  | | Waiting for water inlet. Program abort with draining | Water inlet amount according flow sensor too low or no water intake. | Check water inlet |
| Circulation pump | |   | E:19 | | | | Reserved | |
| | | | E:20 | | E:20 | → End of program | Wrong resistance value of circulation pump | Check wires, measure coil. |
| | | | E:21 | | E:21 | → End of program | Circulation pump blocked | Check for foreign objects, if necessary renew |
| Drainpump | |   | E:22 | | E:22 | → End of program | Water in pump sump, because of dirt filters. | Clean filters. |
| | | | E:23 | | E:23 | → End of program | Wrong resistance value of drain pump | Check wires, measure coil |
| | | | E:24 |  | E:24 | → End of program | Draining not possible. Pump cover missing? | Check water draining (hose kinked / blocked, pressure head, pump cover). Install pump cover. Inspect check valve |
| | | | E:25 |  | E:25 | → End of program | Drain pump blocked; possibly pump cover is missing | Check for foreign objects. Install pump cover |

| Function | Actuation | Display | Remarks | | | | | |
|--------------------------------|-----------|---|---|---|---------|---|---|---|
| Error class (failure group) | | In Customer Service program | | At Customer | | Appliance behaviour in error case | Results of internal appliance check | Measures |
| | | LED's | Display | LED | Display | | | |
| | | Act. Clean Sani End |  |  | | | | |
| Waterswitch | |  | E:26 | | | Permanent activation of water switch | Impulses from water switch are missing despite triggering | Check wires. Measure supply voltage on motor. Check switch of water switch |
| | | | E:27 | | | | Reserved | |
| Aquasensor | | | E:28 | | | Function w/o aquasensor | Calibration of aquasensor not successful | Check wires. Dirt on aquasensor. Is appliance serially equipped with aquasensor? |
| General | | | E:29 | | | No correct functions / Bad washing/drying result possible | Lowvoltage (<190V) | No device error! |
| | | | E:30 | | | Dishwasher switches off themself | Overvoltage (>290V) | No device error! |
| | | | E:31 | | | | Reserved | |
| | | | E:32 | | | | Reserved | |

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| REF | Components | Path |
|-----|------------------------------|-------|
| B1 | Temperature sensor NTC | 5-6 |
| B2 | Low salt sensor optical | 23-24 |
| B3 | Low rinse aid sensor optical | 30-31 |
| B5 | Aqua sensor | 25-27 |
| E1 | Heater | 4 |
| F5 | Safety pressure switch | 7-8 |
| K1 | Regeneration valve | 14 |
| K2 | Filler valve | 13 |
| K3 | Drainage valve | 15 |
| K10 | Power unit | 3-28 |
| K12 | Operating unit | 29-32 |
| M2 | Circulation pump | 23-24 |
| M3 | Detergent solution pump | 25-26 |
| M5 | Water switch | 10-11 |
| P1 | Impeller meter | 21 |
| P2 | On light | 32 |
| P3 | Light bar | 30 |
| Q1 | Main switch | 9 |
| Q2 | Door switch | 20 |
| Q3 | Dispenser coil | 20 |
| Q5 | Drainage valve reservoir | 16 |

① Fitted depending on features

| | | | | |
|---|------------------|--|-----------------|-----------------------|
| Designation Circuit Diagram GV 640 II Generation | LCS EN | Document No. 5600 0001073685 | Rev B | Sheet-No. 1 |
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