

Continue

What does ed mean on my speed queen washer

Dryer Display Description Cause/Corrective Action Alrn, ALrn or ALArn Break-in Alarm Error Service the service door or coin vault switches. door Door Open Indicator Door is not closed during an active cycle. If door is closed, check for improper wiring or inoperative door switches. E rr or Err Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E:00 General Error Re-aim external device and try again. E:01 Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. E:02 IR Communication Disconnection External device removed before communication complete. Re-aim external device and try again. E:05 Invalid Value Communication Invalid code downloaded from external device to Electronic Control. Before downloading, ensure data is for current machine type. E:07 Inoperative Control Replace control. E:08 Inoperative Control Replace control. E:09 Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. E:0A Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. E:0B IR Communication Disconnection External device removed before communication complete. Re-aim external device and try again. E:0C IR Communication Disconnection External device removed before communication complete. Re-aim external device and try again. E:0F IR Communicator Programmed Off Reprogram infrared communicator on. Manually enable IR on control/Re-aim external device and try again. E:OP Open Temperature Sensor Error Open temperature sensor circuit wiring. Change sensor. E:SH Shorted Temperature Sensor Error Short in temperature sensor circuit wiring. Change sensor. EC:00 General Communication Error Communication failure. Try card again. EC:02 or EC02 Timeout Error Communication failure. Try card again. EC:03 or EC03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EC:05 or EC05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type and recheck the programming option's value and try again. EC:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EC:09 Corrupted Data Error Communication error. Try card again. Dryer Display Description Cause/Corrective Action EC:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EC:19 or EC19 No Card Reader Communication Communication failure. Check card reader, control and harness. Power down, power up and try again. If error persists, replace control or card reader. EC:20 Unreadable Card Inoperative card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be inoperative. EC:21 Security ID Mismatch Wrong card. Use card with correct security code. EC:22 Site Code Mismatch Wrong card. Use card with correct site code. EC:23 Card Maximum Value Exceeded Value on card over max. Use a card which does not exceed maximum value. EC:24 Insufficient Memory on Card Card memory is full. Download card contents to PC and clear card for re-use. EC:25 Card Reader Malfunction Inoperative Card Reader. Card Reader may need to be replaced. EC:26 Card Write Error Try card again. If error persists, card may be inoperative. EC:27 Diagnostic Test Card Write Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:28 Diagnostic Test Card Read Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:29 Diagnostic Test Memory Test Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2A Diagnostic Test Card Interface Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2b Diagnostic Test Flash Checksum Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2C Biberon or Non-biberon Device Failure Faulty card reader. Replace card reader. EC:2d Firmware Update Failed, S/W (Software) Intact Firmware load failed. Replace card reader. EC:2E Firmware Update Failed, S/W Not Intact Faulty firmware in reader. Replace card reader EC:2F Firmware Updated, S/W Not Intact Faulty firmware in reader. Replace card reader. Dryer Display Description Cause/Corrective Action EC:30 Timeout Error Card Reader may need to be replaced EC:31 Hotlisted Card Inserted Into Reader Card hotlisted. Control will destroy card. EC:50 Loyalty Purse Read Error Try card again. If error persists, card may be inoperative. EC:56 Loyalty Purse Write Error Try card again. If error persists, card may be inoperative. EC11 No Card Reader Initialization Communication is valid, but there is no card reader initialization. Power down, power up and try again. EC18 No Communication Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader. EC36 Audit Card Removed Prematurely Re-insert audit card and wait until machine prompts for card removal. EI:00 General Communications Errors Communication failure. Re-aim external device and try again. EI:01 or EI01 Transmission Failure Communication failure. Re-aim external device and try again. EI:02 or EI02 Device Timeout/Timeout Error Communication failure. Re-aim external device and try again. EI:03 or EI03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Ensure data is for current machine type and control is in correct mode. EI:04 or EI04 Expecting Upload Request or Command Packet Time Out Communication failure. Re-aim external device and try again. EI:05 or EI05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type, values entered are within the minimum and maximum limits and recheck the programming option's value and try again. EI:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EI:07 Error Writing to RTC Control failure. Control may need to be replaced. EI:08 Error Writing to EPROM Control failure. Control may need to be replaced. Dryer Display Description Cause/Corrective Action EI:09 or EI09 CRC-16 Error Communication failure. Re-aim external device and try again. EI:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EI:0F or EI0F Invalid Wakeup or IR Disabled Communication failure or IR is disabled. Manually enable IR on control/Re-aim external device and try again. EI0A Framing Error Communication error. Re-aim external device and try again. EI0C Time-out Exceeded Communication error. Re-aim external device and try again. EI0E Encryption Error Incorrect machine type. Before downloading, ensure data is for current machine type and check security code and retry. EoP or E oP Open Thermistor Error Remove any lint build-up around thermistor. If problem persists, replace control or thermistor. ESH or E SH Shorted Thermistor Error Remove any lint build-up around thermistor. If problem persists, replace control or thermistor. E id Board ID Incorrect replacement control. Replace user control or output board with correct part. E dS Brownout/Voltage Configuration Unexpected supply voltage. Check the harness connections between the user control and the output board. If the user control was replaced, set dipswitch #1 to the same setting as the previous control. If reworking the machine to use a different supply voltage, the dip switch #1 setting may need to be changed. If the dip switch #1 setting is changed, power down, power up and try again. E nr Output Board Not Ready Hardware failure. Replace output board. E bS Output Board Communication Hardware failure. Replace output board. EnXX Machine ID Communication failure. Power down, power up and try again. If error persists, check connection between user control and Machine ID chip, or try replacing the user control or the Machine ID chip. Dryer Display Description Cause/Corrective Action E Co Output Board Communication Communication failure. Power down, power up and try again. If error persists, check connection between user control and output board, or try replacing the user control or the output board. E 59 Door Input Acquisition Hardware failure. Replace output board. E 60 Centrifugal Switch Input Acquisition Hardware failure. Replace output board. E 61 High Limit Thermostat Input Acquisition Hardware failure. Replace output board. E ro Locked Rotor The motor is not sensed as rotating when it should be. Check that nothing is obstructing motor rotation, check connection between user control and output board, or try replacing the user control or the output board. E nS Motor Output Shorted Hardware failure. Replace output board. IN USE LED blinks three times + 1.5 second pause Shorted Thermistor Error If the control sense a temperature greater than 210±4°F during an active cycle it will set a Shorted Thermistor error. The control will flash the IN USE LED three times separated by a one and a half second pause. This sequence is repeated as long as the Shorted thermistor error is sensed. IN USE LED blinks twice + 1.5 second pause Open Thermistor Error If the control sense a temperature less than 0°F when the heat has been on for at least three minutes it will set an open thermistor error. The control will flash the IN USE LED twice separated by a one and a half second pause. This sequence is repeated as long as the Open Thermistor error is sensed. OFF or oFF Break-in Alarm Shutdown Error Service the service door or coin vault switches. OP Open Thermistor Error Physical open in the thermistor circuit. Replace thermistor. Possible causes are: 1) thermistor, 2) wiring between control and thermistor or 3) control. Right most DP (decimal point) Lit Network Communication Error Communication failure. Wait for 1.5 minutes for error to clear. If it doesn't, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced. SH Shorted Thermistor Error Dead short int he thermistor circuit. Replace thermistor. Possible causes are: 1) shorted thermistor, 2) a short in the wiring between control and thermistor or 3) control. Frontload Washer Frontload Washer Display Description Cause/Corrective Action Alrn, ALrn or ALArn Break-in Alarm Error Check the service the door or coin vault switches. door or dor Door Open Indicator Door is not closed during an active cycle. If door is closed, check for improper wiring or inoperative door switches. DOOR and FINAL SPIN LEDs Motor Failure Error If the control receives the motor failure signal from the motor control, the control will enter Error Mode. The control will turn off all outputs and flash the DOOR and FINAL SPIN LEDS one second on/one second off to indicate a motor failure error. This is a fatal error. The machine must be unpowered to clear this error. DOOR LED Door Lock/Unlock Error If the door doesn't lock in 15 seconds in Door Locking Mode or the door doesn't unlock in 3 minutes in Door Unlocking Mode, the control will enter Door Lock Error Mode. The control will turn off all outputs and flash the DOOR LED one second on/one second off to indicate a door lock/unlock error. To clear this error in Door Locked Mode the door must either open or lock. If the door locks, the cycle will start normally. If the door opens, the control will revert back to Start Mode. To clear this error in Door Unlocking Mode the door must unlock or open. If the door unlocks or opens, the control will enter End of Cycle Mode. DOOR LOCKED and CLOSE DOOR LEDs flashing Door Lock/Unlock Error If the door doesn't lock in 15 seconds in Door Locking Mode or the door doesn't unlock in 3 minutes in Door Unlocking Mode, the control will enter Door Lock Error Mode. The control will turn off all outputs and flash the DOOR LOCKED and CLOSE DOOR LEDs one second on/one second off to indicate a door lock/unlock error.To clear this error in Door Locked Mode the door must either open or lock. If the door locks, the cycle will start normally. If the door opens, the control will revert back to Start Mode.To clear this error in Door Unlocking Mode the door must unlock or open. If the door unlocks or opens, the control will enter End of Cycle Mode. Frontload Washer Display Description Cause/Corrective Action DOOR LOCKED and FINAL SPIN AND TUMBLE LEDs flashing Motor Failure Error If the control receives the motor failure signal from the motor control, the control will enter Error Mode. The control will turn off all outputs and flash the DOOR LOCKED and FINAL SPIN AND TUMBLE LEDs one second on/one second off to indicate a motor failure error. This is a fatal error. The machine must be unpowered to clear this error. E dF or E:dF Drive Failure Motor unplugged, motor failure, tachometer circuit open or drum locked up. Unpower machine to reset. E dL or E:dL Door Lock Error Door does not lock within 15 seconds of closing or doesn't unlock 3 minutes after cycle completion. Open and reclose door. E dL or Er, dL Door Lock Fatal Error Door is unlocked during a running cycle. To clear this error, cycle power to the machine. Check door lock and door latch for damage and replace if error continues. Also check door lock wire harness for damage or for disconnection. E dL1 or Er, dl Door Lock Non-Fatal Error If the door fails to lock in 20 seconds in Door Locking Mode after the drive has been enabled, the control will turn off all outputs and show the error E dL1. To clear this error the door must either open or lock. Overloading the machine or broken shocks may keep door from properly closing. First check that door is fully closed. If door still fails to lock, check door lock and latch for damage. Check door lock wire harness for damage or disconnection. E dL2 or Er, dU Door Unlock Non-Fatal Error If the door fails to unlock 20 seconds after the drum has stopped spinning with a solenoid type door lock and all other outputs have been turned off, the control will show error. To clear this error the door must unlock or open. Removing power for 3 minutes will automatically allow door lock to unlock. Make sure to press on door and then pull to unlock the door as pressure on door lock/ latch will prevent door from unlocking. Possible causes of this issue are broken shocks or clothes load causing pressure on door and door latch/lock preventing it from unlocking. If it still fails to unlock, check door lock and latch for damage. Also check door lock wire harness for damage or disconnection. E door or Er, do Door Opened During A Running Cycle Control detects door open during a cycle. This can be caused by pulling on door while locked or about to lock. Correct inoperative door locking system. Check door switch and harness for damage or disconnection. Unpower machine to clear error. Frontload Washer Display Description Cause/Corrective Action E do, E:do or E:dO Door Opened During a Running Cycle Control detects door open and door locked inputs high. Caused by pulling on door while locked or about to lock. Correct inoperative door locking system. E dr Drain Alarm Error Machine did not drain. Power down machine. E FL, E:FL or Er, FL Fill Error Pressure switch fails to open in 30 minutes (or other programmed length of time) in any fill agitate cycle or maximum fill time exceeded. Check for water pressure at inlets, water valves for operation, clog in water line, plugged filter screen on water hose, and the pressure sensor hose for air leak to determine cause of error. May also be caused by programming too short of a programmed Fill Time for the water level and water pressure of the machine. E Ht, E:HT or E:Ht (models equipped with heater) Heater Error Programmed temperature hasn't been reached in more than two hours. Cycle will continue with heater off. Replace inoperative heater circuit components. E oP Open Thermistor Error Thermistor circuit opens while heating. Heater will turn off and cycle will continue. E rr Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E SH Shorted Thermistor Error Thermistor circuit is shorted while heating. Heater will turn off and cycle will continue. E SP SPI Communications Error Master control cannot communicate with motor control. Caused by transformer unplugged or wiring to motor control incorrect. Power down the machine, power up and try again. E Ub or E:Ub Unbalance Error Unable to balance load. Redistribute load and retry. E Ub1 or Er, ub Non-Fatal Unbalance Error Washer is unable to balance load. Redistribute load and run cycle. If running a small load or one large item, add more items to help machine balance the load better. If items are rubber or other water resistant type material, load may never reach full spin speed. Ensure machine is properly leveled and check for broken shocks. Increase "Number of Balance Attempts" parameter to allow more retries if error occurs often. Refer to programming manual. E Ub2 or Er, Ub Fatal Unbalance Error Wires to unbalance switch are broken or not connected, unbalance switch may be stuck closed or a shock may be broken. Unpower to clear error. Frontload Washer Display Description Cause/Corrective Action CLoSE door or do Door Open Indicator Door is not closed during an active cycle. If door is closed, check for improper wiring or faulty door switch. Coin Error Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E id Board ID Incorrect replacement control. Replace user control or drive board with the correct part. E dS or Er, dS Brownout/Voltage Configuration Unexpected supply voltage. Check the harness connections between the front end control and the drive board. If the front end control was replaced, set dip switch #1 to the same setting as the previous control. If reworking the machine to use a different voltage supply, the dip switch #1 setting may need to be changed. If the dip switch #1 setting is changed, power down, power up and try again. Also check Pin H2-7 on the front end control to ensure good connection between front end control and drive board. E nr or Er, nr Drive Board Not Ready Hardware failure. Try cycling power to machine before replacing drive board. E bS or Er, bS Drive Board Shorted Hardware failure. Try cycling power to machine before replacing drive board. EnXX Machine ID Communication failure. Power down, power up and try again. If error persists, check connection between front end control and Machine ID Chip, or try replacing the front end control or the Machine ID Chip. En 31 Product Byte #1 Mis-Match Product family does not match between the Machine ID Control and Front End Control. Replace Machine ID Control with one meant for current Front End Control platform. En 32 Product Byte #2 Mis-Match Machine type does not match between the Machine ID Control and Front End Control (frontload washer vs. dryer). Replace Machine ID Control and/or front end control with one meant for current machine type. En 33 Product Byte #3 Mis-Match Control level does not match between the Machine ID Control and Front End Control (A4 vs. A2). Replace Machine ID Control with a properly configured A level for the control being attached. Use Factory Test Procedure to determine front end control's control level. Frontload Washer Display Description Cause/Corrective Action En 39 Corrupted Data on Machine ID Control Try cycling power to machine. If error continues, check for damage to Machine ID Control and harness and/or replace Machine ID Control with a correctly configured Machine ID Control. En 3E Machine control cannot be con- figured with the Machine ID Control in the machine Try cycling power to machine. If error continues, check for damage to Machine ID Control and harness and/or replace Machine ID Control with a correctly configured Machine ID Control. En 3F Cannot communicate with the Machine ID Control Try cycling power to machine. If error continues, check for damage to Machine ID Control and harness and/or replace Machine ID Control with a correctly configured Machine ID Control. E Co or Er, Co Drive Board Communication Error Communication failure. This error is caused by certain cycle counters that need to be reset by restarting the control. Unplug the washer, wait 30 seconds and then re-apply power to clear the error. If error persists, check connection between front end control and drive board, or try replacing the front end control or the drive board. Many times a loose pin or wire is at fault for this error. E dr or Er, dr Drain Error If the control has the drain error enabled, the control will enter Machine Error Mode when the water height is not below the empty level, after attempting to drain for the programmable time (default 5 minutes). In the event of a drain error, the control will turn off all outputs and turn on the Machine Error Tone for 15 seconds. Check wiring to drain and that power is present at drain. Check for objects stuck in drain hose or in pump on electric pump units. Ensure that drain hose meets drain height restrictions. Increase programmable drain error time if pump is working but not able to pump out quickly enough. Unpower to clear error. E Sd or Er, Sd Slow Drain Error Water is not draining as quickly as expected in any cycle step that drains water during the cycle. The machine control will light the right-most decimal point even after the drain error display has cleared. The decimal point will remain illuminated after the slow drain error display has expired to draw the attention of the owner or attendant. The decimal point can be cleared by pressing the START keypad 3 times in a period of 5 seconds or by cycling the power to the machine. ESd Slow Drain Error Control shows error after door is open (when cycle is completed) for one minute, the error information will be logged in audit data. Frontload Washer Display Description Cause/Corrective Action E Ht or Er, Ht Heater Error If the heater is enabled and the water temperature has not reached the desired temperature selection within the programmable time, the control will indicate a heater error. If this error occurs, the heater output will be turned off and the cycle will continue. This error will be cleared when the door is opened or any key is pressed. Possible causes include wire harness to heater elements are damaged, heater elements are damaged, corrosion of wires/connectors, or programmable heater error time is too short for the programmed heat temperature and amount of water in machine. E tE or Er, tE Max Temperature Exceeded Error The control will continuously monitor the Machine Status for an indication that the maximum water temperature is exceeded. When the cycle has been completed and if the control has saved a Max Temperature Exceeded Error, the control shows the error for one minute after the door is opened or a key is pressed. Check for stuck heater relay/contactor. E oP or Er, oP Open Temperature/Thermistor Sensor Error The drive board will flag an Open Thermistor Error any time it senses a temperature less than 0°C (32°F). The heater output is turned off for the remainder of the cycle. At the end of the cycle, error code will be shown. It clears after one minute or with any key press. Check wiring to heater elements and thermistor for damage. E SH or Er, SH Shorted Temperature/Thermistor Sensor Error The drive board will flag a Shorted Thermistor any time it senses a temperature greater than 100°C (212°F).The heater output is turned off for the remainder of the cycle. At the end of the cycle, error code will be shown. It clears after one minute or with any key press. Check wiring to heat elements and thermistor for damage. E SudS or Er, SL Suds Lock Error In the spin steps, if the control determines that there are suds in the machine after running all Suds Removal Routines programmed to run, it will display a Suds Lock Error at the end of the cycle after the door is opened. The control will continue showing E SudS for one minute or until any key has been pressed. To prevent error, reduce detergent used, increase Suds Removal Routines allowed, check for draining issues, check that drum spins freely, and make sure no small items are lodged between drum and outer tub. Frontload Washer Display Description Cause/Corrective Action E Hd or Er, Hd Too Hot To Drain Error If water is detected to be too hot to drain safely, this error will occur. It is advised to add a cool down step to the cycle after every heating step to avoid this error. Another possible cause of this error is that the heater contactor/relay is stuck on. Error will display after door is opened in End of Cycle Mode. It will clear after 1 minute. E Ld or Er, LE Water Leak Drain Error If there is a leak during the water leak detection of the cycle when programmed on, an error will display after the door is opened at the end of cycle for 1 minute. It will clear after 1 minute or until a key is pressed. If the water level has dropped more than an acceptable amount during a water leak drain check, the control will save a water leak drain error status and will continue the machine cycle. Immediately upon detecting the error the rightmost decimal point will be lit. This lit decimal point can be cleared by pressing the START keypad 3 times in a period of 5 seconds or by cycling the power to the machine. The cause of this error may be the drain hose leaking or a stuck gravity drain valve on gravity drain machines. E StHt Slow To Heat Error Non-Fatal Error that will appear during the running cycle without affecting the cycle. Machine error code is turned on for 15 seconds. It will clear after a key is pressed. Possible cause of error is one of the heater elements may be broken/disconnected, heater elements may need to be cleaned of lint, or programmable slow to heat error time needs to be increased for the load size and water amount being heated. Refer to Heater Error for other possible causes. E d Drive Board Errors E d 10 or Ed, 10 Voltage Select Error Wrong Input Voltage seen at drive board 120V vs 240V. Dip switch 1 on FEC set wrong, or possibly water on drive board (let drive dry out and determine cause of water). Unpower to clear error. Replace drive board if error persists. E d 12 or Ed, 12 Over Voltage AC-Main Input Error Machine voltage is too high, check supply voltage to the machine and verify that it is within machine specifications. Unpower to clear error. Replace drive board if error persists. E d 21 or Ed, 21 Over Voltage DC Bus Error Unpower to clear error. Check voltage input to machine. If it happens only at start of spin, replace motor. Replace drive board if error persists. Frontload Washer Display Description Cause/Corrective Action E d 22 or Ed, 22 Over Motor Temperature Error Motor temperature is detected to be too high. Check that drum spins freely when empty. Check for overloading of machine. Check motor harness for damage. Reduce agitation time and duty cycle if rotate/pause times are very short and programmable. Unpower to clear error. Replace drive board if error persists. E d 23 or Ed, 23 Fatal IPM Over Current Shunt Error Check that drum and motor spins freely. Unpower to clear error. Check the motor phase windings. Continuity should be uniform between phases L1 and L2, L2 and L3, L1 and L3. Replace motor if not uniform. Replace drive board if error persists. E d 24 or Ed, 24 Fatal I2T Hardware Over Current Error Check that drum and motor spins freely. Rotor may be locked up. Check the motor phase windings. Continuity should be uniform between phases L1 and L2, L2 and L3, L1 and L3. Replace motor if not uniform. Unpower to clear error. Replace drive board if error persists. E d 25 or Ed, 25 IPM Over Temperature Error IPM temperature is detected to be too high. Check that drum spins freely when empty, check for overloading of machine, reduce agitation time, and duty cycle if rotate/ pause times are very short and programmable. Unpower to clear error. Check for lint build-up on heat sink on drive board. Replace drive board if error persists. E d 29 or Ed, 29 Motor Not Connected Error The motor or one of its electrical phases is not connected. Check that the harness from the motor to the drive board is fully plugged in on both ends and that there is no damage to the motor harness. Make sure to push in the motor harness on both ends just in case it is a little loose and not fully inserted. If the harness looks fine and the error still occurs, look for something that is binding the inner wash basket and keeping it from rotating properly such as a garment/ foreign object caught between the inner and outer tubs or a clothes deflector rubbing the inner basket. Remove object or reposition clothes deflector by removing deflector and re-drilling screw holes to provide more clearance between tub lip and deflector. If the error still occurs, try replacing the drive board or harness. Unpower to clear error. E d 44 or Ed, 44 Overcurrent Shunt Detection Circuit Fail Error Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 45 or Ed, 45 Door Lock Pin HW On/Off Fail Error Hardware failure. Unpower to clear error. Replace drive board if error persists. Frontload Washer Display Description Cause/Corrective Action E d 46 or Ed, 46 Heater Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 47 or Ed, 47 Hot Valve Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 48 or Ed, 48 Cold Valve Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 49 or Ed, 49 Detergent Valve Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 50 or Ed, 50 Softener Valve Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 51 or Ed, 51 Inrush Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 52 or Ed, 52 Voltage Doubler Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 53 or Ed, 53 Door Lock Select Voltage Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 54 or Ed, 54 Pump Pin HW On/Off Fail Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 55 or Ed, 55 Fatal NTC Short Error Check heater thermistor and thermistor wiring for damage. Unpower to clear error. Replace drive board if error persists. E d 56 or Ed, 56 Fatal NTC Open Error Check heater thermistor and thermistor wiring for damage. Unpower to clear error. Replace drive board if error persists. E d 63 or Ed, 63 Fatal IPM Temperature Short Error Hardware failure. Unpower to clear error. Replace drive board if error persists. E d 64 or Ed, 64 Fatal IPM Temperature Open Error Hardware failure. Unpower to clear error. Replace drive board if error persists. Er,id Drive Board ID Error This error will be displayed if after checking for drive board/front end control compatibility it is found not to match. Unpower machine to clear code. Change front end control to one for a frontload washer. PF Power Fail Error If control was in Delayed Start mode during a power failure, this error will be displayed and the delayed start will be canceled. Press Power/Cancel to clear the error. Frontload Washer Display Description Cause/Corrective Action E nFLo or Er, nF No Water Flow Error If the control does not reach a water level of 4 inches within the programmed time it may mean the hose to the pressure sensor has a leak, is disconnected or clogged, the water inlet hose is clogged, the water inlet screens are clogged, or no water is flowing into the machine. The programmed error time may also need to be increased if there is low water pressure to the machine. The control will enter Machine Error mode when the error is set. The control will first drain for 90 seconds and then turn off all outputs and turn on the Machine Error Tone for 15 seconds. Unpower to clear error. E oF or Er, OF Overflow Error This error is triggered when an unsafe high water level is detected in the machine and water is unable to drain. The water valve may be stuck open, pump may be stuck, or the drain may be clogged. Typically a small item is lodged in the propeller of the pump on pump machines. The door may be open/unlocked with water sitting in the machine to cause this error. Unpower to clear error. E PS or Er, PS Pressure Sensor Error If the control does not detect a valid water level sensor input for 30 seconds, or if the Max (Overflow) Fill Level in the control is set to 0 while in Run Mode, Factory Test Mode, or Overflow Mode, the control will enter Machine Error Mode. Check harness from user control to pressure sensor for damage and replace if necessary. Replace pressure sensor or user control if error persists. The control will first drain for 30 seconds to get out any water and then unlock the door. Unpower to clear error. E bELt or Er, bb Broken Belt Error If a broken belt is detected by the control, the control will show error. Unpower the machine and check the belt and pulleys for issues. E LF or Er, LF Water Leak Fill Error If there is a leak during the water leak detection of the cycle when programmed on, an error will display after the door is opened at the end of cycle for 1 minute. It will clear after 1 minute or when a keypad is pressed. If the water level has increased more than an acceptable amount during a water leak drain check, the control will save a water leak drain error status and will continue the machine cycle. Immediately upon detecting the error the rightmost decimal point will be lit. This lit decimal point can be cleared by pressing the START keypad 3 times in a period of 5 seconds or by cycling the power to the machine. There may be a water valve stuck open due to debris or a failed water valve. Frontload Washer Display Description Cause/Corrective Action Display is dim Look for loose pins and damaged wires on harness from user control to drive board. E:SP Serial Communication Error Master control cannot communicate with motor control. Master control will try to reset the motor control by powering it down. The error will display after three reset attempt failures. Caused by transformer unplugged or inoperative, fuse blow on motor control board or wiring to motor control incorrect. EC:00 General Communication Error Communication failure. Try card again. EC:02 or EC02 Timeout Error Communication failure. Try card again. EC:03 or EC03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EC:05 or EC05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type and recheck the programming option's value and try again. EC:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EC:09 Corrupted Data Error Communication error. Try card again. EC:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EC:19 or EC19 No Card Reader Communication Communication failure. Check card reader, control and harness. Power down, power up and try again. If error persists, control or reader is inoperative. EC:20 Unreadable Card Inoperative card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be inoperative. EC:21 Security ID Mismatch Wrong card. Use card with correct security code. EC:22 Site Code Mismatch Wrong card. Use card with correct site code. EC:23 Card Maximum Value Exceeded Value on card over max. Use a card which does not exceed maximum value. EC:24 Insufficient Memory on Card Card memory is full. Download card contents to PC and clear card for re-use. Frontload Washer Display Description Cause/Corrective Action EC:25 Card Reader Malfunction Inoperative Card Reader. Card Reader may need to be replaced. EC:26 Card Write Error Try card again. If error persists, card may be inoperative. EC:27 Diagnostic Test Card Write Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:28 Diagnostic Test Card Read Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:29 Diagnostic Test Memory Test Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2A Diagnostic Test Card Interface Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2b Diagnostic Test Flash Checksum Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:30 Timeout Error Card Reader may need to be replaced EC:31 Hotlisted Card Inserted Into Reader Card hotlisted. Control will destroy card. EC:50 Loyalty Purse Read Error Try card again. If error persists, card may be inoperative. EC:56 Loyalty Purse Write Error Try card again. If error persists, card may be inoperative. EC11 No Card Reader Initialization Communication is valid, but there is no card reader initialization. Power down, power up and try again. EC18 No Communication Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader. EC36 Audit Card Removed Prematurely Re-insert audit card and wait until machine prompts for card removal. EI:00 General Communications Errors Communication failure. Re-aim external device and try again. EI:01 or EI01 Transmission Failure Communication failure. Re-aim external device and try again. EI:02 or EI02 Device Timeout/Timeout Error Communication failure. Re-aim external device and try again. Frontload Washer Display Description Cause/Corrective Action EI:03 or EI03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Ensure data is for current machine type and control is in correct mode. EI:04 or EI01 Expecting Upload Request or Command Packet Time Out Communication failure. Re-aim external device and try again. EI:05 or EI05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type, values entered are within the minimum and maximum limits and recheck the programming option's value and try again. EI:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EI:07 Error Writing to RTC Control failure. Control may need to be replaced. EI:08 Error Writing to EPROM Control failure. Control may need to be replaced. EI:09 or EI09 CRC-16 Error Communication failure. Re-aim external device and try again. EI:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EI:0F or EI0F Invalid Wakeup or IR Disabled Communication failure or IR is disabled. Manually enable IR on control/Re-aim external device and try again. EI0A Framing Error Communication error. Re-aim external device and try again. EI0C Time-out Exceeded Communication error. Re-aim external device and try again. EI0E Encryption Error Communication error. Re-aim external device and try again. If the problem persists, check that the security code is correct. Err Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. Frontload Washer Display Description Cause/Corrective Action FINAL SPIN and RINSE LEDs SPI Communications Error This error occurs when there is a problem with communications between the front-end control and the motor control. The control will turn off all outputs and flash the FINAL SPIN and RINSE LEDs one second on/ one second off to indicate an SPI communications error. This is a fatal error. The machine must be powered down at this point. FINAL SPIN AND TUMBLE and CLOSE DOOR LEDs flashing SPI Communications Error This error occurs when there is a problem with communications between the front-end control and the motor control. The control will turn off all outputs and flash the FINAL SPIN AND TUMBLE and CLOSE DOOR LEDs one second on/one second off to indicate an SPI communications error. This is a fatal error. The machine must be powered down at this point. HEATING LED (Models equipped with heater) Open/Shorted Temperature Sensor Error Any time the control senses a temperature less than 32°F (0°C) or greater than 212°F (100°C) while heating, the control will turn off the heater output and not attempt to heat. The control will continue and finish the cycle normally. At the end of the cycle, the control will flash the HEATING LED one-second on/one second off to indicate an open/shorted temperature sensor error. This error will be cleared when the door is opened at the end of the cycle. IN USE and CLOSE DOOR LEDs flashing Door Open Error If the control senses the door open during Run Mode, the control will enter Error Mode. The control will turn off all outputs and flash the IN USE and CLOSE DOOR LEDs one second on/one second off to indicate a door open error. This is a fatal error. The machine must be unpowered to clear this error. IN USE and DOOR LOCKED LEDs flashing Fill Error If the control receives no full input from the pressure switch indicating the cylinder is full within 30 minutes of starting the fill, the control will enter Error Mode. The control will turn off all outputs and flash the IN USE and DOOR LOCKED LEDs one second on/one second off to indicate a fill error. This is a fatal error. The machine must be unpowered to clear this error. Frontload Washer Display Description Cause/Corrective Action IN USE LED blinks three times + 1.5 second pause Shorted Thermistor Error If the control sense a temperature greater than 210±4°F during an active cycle it will set a Shorted Thermistor error. The control will flash the IN USE LED three times separated by a one and a half second pause. This sequence is repeated as long as the Shorted thermistor error is sensed. IN USE LED blinks twice + 1.5 second pause Open Thermistor Error If the control sense a temperature less than 0°F when the heat has been on for at least three minutes it will set an open thermistor error. The control will flash the IN USE LED twice separated by a one and a half second pause. This sequence is repeated as long as the Open Thermistor error is sensed. OFF or oFF Break-in Alarm Shutdown Error Check the service door or coin vault switches. OP (models equipped with heater) Open Thermistor Error This error code occurs if the thermistor circuit opens while heating. Right most DP (decimal point) Lit Network Communication Error Communication failure. Wait for 1.5 minutes for error to clear. If it doesn't, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced. Right most decimal point Lit Water Leak Detection Error or Slow Drain Detection Error Water leak test has detected a water leak during a cycle. May be a water fill or drain leak where either the water valves are stuck open or water is leaking from the machine in some way. On gravity drain machines it is usually a stuck gravity drain valve. If it's a slow drain, water is not draining as quickly as expected in any cycle step that drains water during the cycle. The decimal point will remain lit after the error display has expired. Clear the decimal point by pressing the START keypad three times within five seconds or by cycling the power to the machine. Right most decimal point blinking Machine ID Error Machine ID is no longer communicating with the control. Check Machine ID connection. Left most decimal point Lit Control is in Bootloader Mode Control is waiting for firmware update. (Firmware updates only done by Alliance Laundry Systems Service Technicians.) If firmware is not being updated, cycle power to machine. If error still occurs, replace control. Right most decimal point blinking Control is in Low Power/Idle Mode While control is in Low Power/Idle Mode, right most decimal on display will blink once per minute. This is normal. Press the Power/Cancel keypad to turn control back on. Frontload Washer Display Description Cause/Corrective Action SH (models equipped with heater) Shorted Thermistor Error This error occurs if the thermistor circuit is shorted while heating. WASH and DOOR LEDs Fill Error If the control receives no full input from the pressure switch indicating the cylinder is full within 30 minutes of starting the fill, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and DOOR LEDs one second on/one second off to indicate a fill error. This is a fatal error. The machine must be unpowered to clear this error. WASH and RINSE LEDs Door Open Error If the control senses the door open during Run Mode, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and RINSE LEDs one second on/one second off to indicate a door open error. This is a fatal error. The machine must be unpowered to clear this error. IN USE, CLOSE DOOR LEDs Fill Error Fill level is not reached within 30 minutes in any fill step. Check for water pressure at inlets, water valves for operation, clog in water line, plugged filter screen on water hose, and the pressure sensor hose for air leak to determine cause of error. Power down to clear error. DOOR LOCKED, CLOSE DOOR LEDs Door Lock Fatal Error Door is unlocked during a running cycle. To clear this error, cycle power to the machine. Check door lock and door latch for damage and replace if error continues. Also check door lock wire harness for damage or for disconnection. DOOR LOCKED, CLOSE DOOR LEDs Door Lock Non-Fatal Error If the door fails to lock in 20 seconds in Door Locking Mode after the drive has been enabled, the control will turn off all outputs and display error code. To clear this error the door must either open or lock. Overloading the machine or broken shocks may keep door from properly closing. First check that door is fully closed. If door still fails to lock, check door lock and latch for damage. Check door lock wire harness for damage or disconnection. Frontload Washer Display Description Cause/Corrective Action DOOR LOCKED, CLOSE DOOR LEDs Door Unlock Non-Fatal Error If the door fails to unlock 20 seconds after the drum has stopped spinning with a solenoid type door lock and all other outputs have been turned off, the control will display error code. To clear this error the door must unlock or open. Removing power for 3 minutes will automatically allow door lock to unlock. Make sure to press on door and then pull to unlock the door as pressure on door lock/latch will prevent door from unlocking. Possible causes of this issue are broken shocks or clothes load causing pressure on door and door latch/lock preventing it from unlocking. If it still fails to unlock, check door lock and latch for damage. Also check door lock wire harness for damage or disconnection. DOOR LOCKED, CLOSE DOOR LEDs Door Opened Error Control detects door open during a cycle. This can be caused by pulling on door while locked or about to lock. Correct inoperative door locking system. Check door switch and harness for damage or disconnection. Unpower machine to clear error. IN USE, FINAL SPIN AND TUMBLE LEDs Non-Fatal Unbalance Error Washer is unable to balance load. Redistribute load and run cycle. If running a small load or one large item, add more items to help machine balance the load better. If items are rubber or other water resistant type material, load may never reach full spin speed. Ensure machine is properly leveled and check for broken shocks. Open door or press Power/Cancel keypad to clear error. IN USE, FINAL SPIN AND TUMBLE LEDs Fatal Unbalance Error Wires to unbalance switch are broken or not connected, unbalance switch may be stuck closed or a shock may be broken. Unpower to clear error. IN USE, CLOSE DOOR LEDs Drain Error The control will enter Machine Error Mode when the water height is not below the empty level, after attempting to drain for 2 minutes. In the event of a drain error, the control will turn off all outputs and turn on the Machine Error Tone for 15 seconds. Check wiring to drain and that power is present at drain. Check for objects stuck in drain hose or in pump on electric pump units. Ensure that drain hose meets drain height restrictions. Unpower to clear error. Frontload Washer Display Description Cause/Corrective Action IN USE, CLOSE DOOR LEDs Slow Drain Error This error occurs only if enabled by setting dip switch #4 to ON. Water is not draining as quickly as expected in any cycle step that drains water during the cycle. Clear this error by pressing the Power/Cancel keypad. IN USE, CLOSE DOOR LEDs Suds Lock Error In the spin steps, if the control determines that there are suds in the machine after running all Suds Removal Routines programmed to run, it will display a Suds Lock Error at the end of the cycle after the door is opened. The control will continue showing the error for one minute or until the Power/Cancel keypad has been pressed. To prevent error, reduce detergent used. Check for draining issues, check that drum spins freely, and make sure no small items are lodged between drum and outer tub. IN USE, CLOSE DOOR LEDs Water Leak Drain Error This error occurs only if enabled by setting dip switch #4 to ON. If there is a leak during the water leak detection of the cycle an error will display after the door is opened at the end of cycle for 1 minute. It will clear after 1 minute or until the Power/Cancel keypad is pressed. If the water level has dropped more than an acceptable amount during a water leak drain check, the control will save a water leak drain error status and will continue the machine cycle. The cause of this error may be the drain hose, pump, or fill valve leaking or a stuck gravity drain valve on gravity drain machines. IN USE, CLOSE DOOR LEDs No Water Flow Error If the control does not reach a water level of 4 inches within the first 5 miutes of starting the fill it may mean the hose to the pressure sensor has a leak, is disconnected or clogged, the water inlet hose is clogged, the water inlet screens are clogged, or no water is flowing into the machine. The control will enter Machine Error mode when the error is set. The control will first drain for 90 seconds and then turn off all outputs and turn on the Machine Error Tone for 15 seconds. Unpower to clear error. Frontload Washer Display Description Cause/Corrective Action IN USE, CLOSE DOOR LEDs Overflow Error This error is triggered when an unsafe high water level is detected in the machine and water is unable to drain. The water valve may be stuck open, pump may be stuck, or the drain may be clogged. Typically a small item is lodged in the propeller of the pump on pump machines. The door may be open/unlocked with water sitting in the machine to cause this error. Unpower to clear error. IN USE, CLOSE DOOR LEDs Pressure Sensor Error If the control does not detect a valid water level sensor input for 30 seconds, or if the Max (Overflow) Fill Level in the control is set to 0 while in Run Mode, Factory Test Mode, or Overflow Mode, the control will enter Machine Error Mode. Check harness from user control to pressure sensor for damage and replace if necessary. Replace pressure sensor or user control if error persists. The control will first drain for 30 seconds to get out any water and then unlock the door. Unpower to clear error. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE, CLOSE DOOR LEDs Over Voltage AC-Main Input Error Machine voltage is too high, check supply voltage to the machine and verify that it is within machine specifications. Unpower to clear error. Replace drive board if error persists. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE, CLOSE DOOR LEDs Over Voltage DC Bus Error Unpower to clear error. Check voltage input to machine. If it happens only at start of spin, replace motor. Replace drive board if error persists. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE, CLOSE DOOR LEDs Fatal IPM Over Current Shunt Error Check that drum and motor spins freely. Unpower to clear error. Check the motor phase windings. Continuity should be uniform between phases L1 and L2, L2 and L3, L1 and L3. Replace motor if not uniform. Replace drive board if error persists. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE, CLOSE DOOR LEDs Fatal I2T Hardware Over Current Error -Main Input Error Check that drum and motor spins freely. Rotor may be locked up. Check the motor phase windings. Continuity should be uniform between phases L1 and L2, L2 and L3, L1 and L3. Replace motor if not uniform. Unpower to clear error. Replace drive board if error persists. Frontload Washer Display Description Cause/Corrective Action IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE, CLOSE DOOR LEDs Motor Not Connected Error The motor or one of its electrical phases is not connected. Check that the harness from the motor to the drive board is fully plugged in on both ends and that there is no damage to the motor harness. Make sure to push in the motor harness on both ends just in case it is a little loose and not fully inserted. If the harness looks fine and the error still occurs, try replacing the drive board or harness. Unpower to clear error. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE LEDs Broken Belt Error If a broken belt is detected by the control, the control will display this error. Unpower the machine and check the belt and pulleys for issues. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE LEDs Drive Board ID Error This error will be displayed if after checking for drive board/front end control compatibility it is found not to match. Unpower machine to clear code. Change front end control to one for a frontload washer. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE LEDs Drive Board Not Ready Hardware failure. Try cycling power to machine before replacing drive board. IN USE, DOOR LOCKED, FINAL SPIN AND TUMBLE LEDs Drive Board Shorted Hardware failure. Try cycling power to machine before replacing drive board. DOOR LOCKED, FINAL SPIN AND TUMBLE LEDs Drive Board Communication Error Communication failure. Power down, power up and try again. If error persists, check connection between front end control and drive board, or try replacing the front end control or the drive board. Many times a loose pin or wire is at fault for this error. Topload Washer Topload Washer Display Description Cause/Corrective Action Alrn, ALrn or ALArn Break-in Alarm Error Service the door or coin vault switches. E dr, Edr or E:dr Drain Alarm Error Machine did not drain or maximum drain time exceeded or water sensed at end of spin step. Power down machine. Check pump for blockage and clear as needed. E FL, EFL or E:FL Fill Error Pressure switch fails to open in 30 minutes (or other programmed length of time) in any fill/agitate cycle or maximum fill time exceeded. Check incoming water pressure. Clean the screens in the mixing valve and fill hoses. E rr or Err Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E:00 General Error Re-aim external device and try again. E:01 Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. E:02 IR Communication Disconnection External device removed before communication complete. Re-aim external device and try again. E:05 Invalid Value Communication Invalid code downloaded from external device to Electronic Control. Before downloading, ensure data is for current machine type. E:07 or E:08 Inoperative Control Replace control. E:09 or E:0A Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. E:0B or E:0C IR Communication Disconnection External device removed before communication complete. Re-aim external device and try again. E:0d Pressure Switch Error Check fill and drain hoses for improper installation and kinks. Check fill electrical circuit. Replace inoperative switches or wires. E:0F IR Communicator Programmed Off Reprogram infrared communicator on. Manually enable IR on control/Re-aim external device and try again. EC:00 General Communication Error Communication failure. Try card again. Topload Washer Display Description Cause/Corrective Action EC:02 or EC02 Timeout Error Communication failure. Try card again. EC:03 or EC03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EC:05 or EC05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type and recheck the programming option's value and try again. EC:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EC:09 Corrupted Data Error Communication error. Try card again. EC:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EC:19 or EC19 No Card Reader Communication Communication failure. Check card reader, control and harness. Power down, power up and try again. If error persists, control or reader is inoperative. EC:20 Unreadable Card Inoperative card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be inoperative. EC:21 Security ID Mismatch Wrong card. Use card with correct security code. EC:22 Site Code Mismatch Wrong card. Use card with correct site code. EC:23 Card Maximum Value Exceeded Value on card over max. Use a card which does not exceed maximum value. EC:24 Insufficient Memory on Card Card memory is full. Download card contents to PC and clear card for re-use. EC:25 Card Reader Malfunction Inoperative Card Reader. Card Reader may need to be replaced. EC:26 Card Write Error Try card again. If error persists, card may be inoperative. EC:27 Diagnostic Test Card Write Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:28 Diagnostic Test Card Read Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:29 Diagnostic Test Memory Test Failure Inoperative Card Reader. Card Reader may need to be replaced. Topload Washer Display Description Cause/Corrective Action EC:2A Diagnostic Test Card Interface Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2b Diagnostic Test Flash Checksum Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:30 Timeout Error Card Reader may need to be replaced EC:31 Hotlisted Card Inserted Into Reader Card hotlisted. Control will destroy card. EC:50 Loyalty Purse Read Error Try card again. If error persists, card may be inoperative. EC:56 Loyalty Purse Write Error Try card again. If error persists, card may be inoperative. EC11 No Card Reader Initialization Communication is valid, but there is no card reader initialization. Power down, power up and try again. EC18 No Communication Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader. EC36 Audit Card Removed Prematurely Re-insert audit card and wait until machine prompts for card removal. EI:00 General Communications Errors Communication failure. Re-aim external device and try again. EI:01 or EI01 Transmission Failure Communication failure. Re-aim external device and try again. EI:02 or EI02 Device

Timeout/Timeout Error Communication failure. Re-aim external device and try again. EI:03 or EI03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Ensure data is for current machine type and control is in correct mode. EI:04 or EI04 Expecting Upload Request or Command Packet Time Out Communication failure. Re-aim external device and try again. EI:05 or EI05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type, values entered are within the minimum and maximum limits and recheck the programming option's value and try again. EI:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EI:07 Error Writing to RTC Control failure. Control may need to be replaced. Topload Washer Display Description Cause/Corrective Action EI:08 Error Writing to EPROM Control failure. Control may need to be replaced. EI:09 or EI09 CRC-16 Error Communication failure. Re-aim external device and try again. EI:0A or EI0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EI:0A Proximity Error External device is improperly aimed at infrared communicator (angle or distance). Re-aim external device and try again. EI:0F or EI0F Invalid Wakeup or IR Disabled Communication failure or IR is disabled. Manually enable IR on control/Re-aim external device and try again. EI0C Time-out Exceeded Communication error. Re-aim external device and try again. EI0E Encryption Error Incorrect machine type. Before downloading, ensure data is for current machine type and check security code and retry. EnF No Water Flow Error Control did not detect a water level of 0.5 inch within the programmed amount of time. If machine is filling with water, Check the pressure sensor hose for cracks or leaks. Replace if needed. If machine is not filling with water, refer to Fill Error troubleshooting. E oF E nFLo Overflow Error Water filled too high and tripped the overflow level of the machine for more than 5 minutes. If water is dripping into the tub, unplug the machine. If water is still dripping into the tub, replace the mixing valve. E PS Pressure Sensor Error Control is not getting a valid reading from the pressure sensor. Check the pressure sensor wire harness and connectors to make sure there is a solid connection. If wiring is correct, replace the sensor if needed. E ll Lid Unlock Error On machines with a lid lock, this error occurs when the lid doesn’t unlock after three attempts. This may happen if the lid is obstructed and can’t be unlatched or the control is not detecting a correct state for the lock. Check the wire harness from the lock to the output board. In rare cases the lock may have failed and is unable to unlock. If wiring is correct, replace the lock. E Co SCI Comm Error Front end control and output board cannot communicate due to a break or disconnect of the main harness to the two controls. Check for any loss pins in the connectors or any disconnections in the harness. With a multi-meter, test the harness for continuity, and check the plugs for damage. Inspect the board connections for pushed over pins. Topload Washer Display Description Cause/Corrective Action E nr Drive Not Ready Error Output board not operating properly. Replace output board. E Sd Slow Drain Detection Error The control detected that it took longer than 185 seconds to drain the water. Check the pump for obstructions and replace if needed. Check the drain hose for restrictions and clear if needed E Ld Water Leak Drain Error The control detected that the water level dropped more than the acceptable level. Check the hose connections at the pump for leaks. Check for leaks from the outer tub, and tub seal. E LF Water Leak Fill Error The control detected that the water level has risen more than the acceptable amount. Check the water valve to ensure that water is not leaking past the valve seats. E tp Thermal Protect Error The motor is failing or the motor has been overloaded. Check the pump and transmission for proper function. Check if the machine had been over-loaded. If the control displays “Push Start” then push start to continue the cycle. E dS Dip Switch Error The front end control reads that the supply power to the unit is incorrect. This could be because dip switch #1 is set incorrectly or there is a disconnect power fail signal on connector H2. Ed, XX Output Board Error Output board not operating properly. Inspect wire harnesses. If wiring is ok, replace output board. E bS Board Shorted Error Output board not operating properly. Inspect wire harnesses. If wiring is ok, replace output board. Er, dS Voltage Configuration Error The control has the incorrect voltage dipswitch setting. There is a disconnect power fail signal at H2 connection on output control board.The dipswitch setting must be corrected. To clear this error the machine must be powered down. Reset dipswitch to the correct voltage. Correct wiring issues. Er, dr Drain Error (control sensed water in the tub at the end of the cycle) Restriction in the tub to pump hose, drain hose blockage in the pump. Clear restriction from hoses. Replace the pump. To clear this error the machine must be powered down. Topload Washer Display Description Cause/Corrective Action Er, FL Fill Error (desired fill level was not reached within 30 minutes) Water supply faucet closed, kinked or twisted fill hoses, filter screens plugged, no voltage from output board to the water valve (refer to appropriate schematic) or low water pressure. Open faucet, straighten fill hoses, clean or replace filter screens, check for voltage (refer to serial plate) from the output board to the water valves, and if voltage is present at output board, then check for voltage (refer to serial plate) at the water valve. If there is voltage (refer to serial plate) at the water valve, then replace the mixing valve. Correct water pressure to 20- 120 psi (138-827 kPa). To clear this error the machine must be powered down. Er, oF Overflow Error (control was not able to lower the water level within 5 minutes) Leaky water valve, possible blockage in the pressure hose, possible air leak in the pressure hose. Check the inlet valve, clear blockage in pressure hose, replace hose if leak is found. To clear this error the machine must be powered down. Er, PS Control did not detect a valid water level input from the pressure sensor for 30 seconds The sensor harness is not connected to the front end control, the sensor harness is damaged or has a break in the wire or the pressure tube or hose has a blockage. Ensure sensor harness is plugged into the front end control, replace the sensor if the harness is damaged, clear any blockage to the pressure tube or bulb. To clear this error the machine must be powered down. tP Thermal protection on motor is open Machine is possibly overloaded, the brakes not functioning properly or transmission not functioning properly. Properly load the machine, check the function of the brakes or check the function of the transmission. To clear this error wait for “tP” to clear. The control will then prompt user to press Start. Er and Co SCI Comm Error Error in the communication between the front end control and the output board. There is a break or disconnect in the main harness to the two controls. Check for any burnt pins in the connectors or any disconnections in the harness. To clear this error the machine must be powered down. Er and LE Water Leak Detection Error Water level is dropping during the leak detection step, if enabled. Check mixing valve for leaks. Er and Sd Slow Drain Detection Error The machine is taking longer to drain than a preset time, if enabled. Check the tub and drain for leaks. Topload Washer Display Description Cause/Corrective Action Er and nr Drive Not Ready Error Output board is not ready within one minute. Replace the output board. To clear this error the machine must be powered down. Ed and XX Output Board Error Error received from the output board. Inspecting wire harnesses to output board. Replace output board if wiring is not damaged. To clear this error the machine must be powered down. Er and bS Board Shorted Error Output board enable relay is shorted. Replace the output board. To clear this error the machine must be powered down. PF Delay Start Power Fail Error Machine experienced a long power fail or has been unplugged during Delay Start Mode. No service should be needed. Press Power/cancel to continue normal operation. IN USE LED blinks twice + 1.5 second pause Fill Error A Fill Error will occur if the tub does not fill within 62 minutes of the start of the cycle. A Fill Error is indicated by the control repeatedly flashing the IN USE LED twice separated by a one and a half second pause until the control is powered down. If Error Mode is turned off, the fill error will not occur and the control will continue to wait for the fill level to be reached. IN USE LED blinks three times + 1.5 second pause Drain Error A Drain error will occur if the tub is not empty after a spin cycle. A Drain Error is indicated by the control repeatedly flashing the IN USE LED three times separated by a one and a half second pause until the control is powered down. If Error Mode is turned off, the drain error will not occur and the machine cycle will advance to the next cycle step as though the water had been pumped out. OFF or oFF Break-in Alarm Shutdown Error Service door or coin vault switches. Right most DP (decimal point) Lit Network Communication Error Communication failure. Wait for 1.5 minutes for error to clear. If it doesn’t, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced. Tumble Dryer Tumble Dryer Display Description Cause/Corrective Action AF (flashing) Bouncing Airflow Switch Airflow switch opened/closed 5 or more times during cycle. Check airflow switch. Replace if inoperative. AF (solid) Airflow Switch Closed When Resuming Cycle Allow up to 20 seconds for this condition to clear. Check if airflow switch opens at end of cycle. Replace if inoperative. AF-1 Airflow Switch Closed When Cycle Started Switch fails to open at end of cycle. Check airflow switch. Replace if inoperative. AF-2 Airflow Switch Failed to Close After Cycle Started Airflow switch failed to close after cycle started. Check airflow switch. Replace if inoperative. Airflow Switch Bounces During A Running Cycle Airflow Switch Bounces During A Running Cycle If airflow switch is open for at least one second, heat will be turned off and will remain off until switch is observed closed for at least 5 seconds. If there are 5 airflow switch bounces within 5 minutes control will go to Cool Down portion of cycle, display error message and sound audio signal. When Cool Down portion of cycle ends, control will continue displaying error message until power is cycled or BACK keypad is pressed. Airflow Switch Does Not Close After Cycle Started Airflow Switch Does Not Close After Cycle Started If airflow switch does not close within 5 seconds of start/ re-start of a cycle, control will go to Cool Down portion of cycle, display error message and sound audio alarm. Once Cool Down portion of cycle ends, control will continue to display error message until power is cycled to machine or BACK keypad is pressed. Airflow Switch Sensed Closed While Not In Run Mode Airflow Switch Sensed Closed While Not In Run Mode If airflow switch is sensed closed 30 seconds after entering Idle Mode, or End of Cycle Mode, control will display error message until power is cycled or error clears. Cycle will not start and all user inputs will be ignored. If error does clear, control will go back to previous mode of operation. Alrn Break-in Alarm Error Service door or coin vault switches. Tumble Dryer Display Description Cause/Corrective Action Auto Ignition Retry (Gas Models Only) Auto Ignition Retry If Ignition Control Module (ICM) fails to ignite gas valve ICM will send an ICM Lockout Alarm to the control.If ICM needs to be manually reset, when control receives ICM Lockout Alarm it will display Cycle Stopped Menu with text prompting user to press START/ENTER keypad. If ICM fails to ignite gas on last attempt of auto retry, control will start Cool Down portion of cycle, display heat error message and sound audio signal. When Cool Down portion of cycle ends control will continue to display error message until power is cycled to machine or a user presses BACK keypad. DIP Switch/Harness Index Mismatch Error DIP Switch/Harness Index Mismatch Error On power up control reads Temperature Index Harness value and compares that with the value of switch 1, switch 2 and switch 3 on DIP switch configuration. If the result is an invalid setup control will not enter Idle mode and instead enter Error Mode. Control will ignore all user inputs and display error message. Machine must be powered down and correct temperature index harness must be installed and/or DIP switch configuration must be corrected. door Door Open Indicator Door is not closed during an active cycle. If door is closed, check for improper wiring or inoperative door switches. E Cab Cabinet Limit Error Remove any lint build-up around thermostat. If problem persists, replace control or thermostat. E FCOn Fan Motor Contactor Error Inspect wires to the fan motor contactors. Check signal to the output control. If problem persists, replace fan motor contactor. E FnCS Fan Motor Centrifugal Switch Error Clean vents on the fan motor. Inspect wires to the fan motor centrifugal switch. If problem persists, replace fan motor. E Heat Machine Did Not Reach Expected Temperature The ignition control has power, but a flame was not sensed after the programmed amount of retries. Be sure that gas is turned on. If problem persists, troubleshoot the ignition circuit. (Igniter, Cable, Ignition Control Module.) E Ht Machine Did Not Reach Expected Temperature Check heating connections, cycle power to machine. NOTE: To avoid error code "E Ht" on steam-heated tumblers, the Auto Ignite Retry (AIg) must be reset from the factory default of 3 to disabled (0). Tumble Dryer Display Description Cause/Corrective Action E iCn ICM lockout Alarm Active Check that the gas is turned on and that the ignition circuit functions. Also check that the gas valve is operational. E rot Rotation Sensor Error Check for broken or worn belts. Make sure machine is not over loaded and check if rotation sensor is working. If problem persists, replace rotation sensor or control. E rr Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E SL Stove Limit 1 Error Inspect tumble dryers venting/ventwork to ensure that the ventwork is adequate and that there are no blockages. Be sure to clean and inspect lint screen. Remove any lint build-up around the thermostat. If problem persists, replace thermostat. E SL2 Stove Limit 2 Error Inspect tumble dryers venting/ventwork to ensure that the ventwork is adequate and that there are no blockages. Be sure to clean and inspect lint screen. Remove any lint build-up around the thermostat. If problem persists, replace thermostat. E:OP Open Temperature Sensor Error Open temperature sensor circuit wiring. Change sensor. E:SH Shorted Temperature Sensor Error Short in temperature sensor circuit wiring. Change sensor. EAF Airflow Switch Error Switch bounces during cycle. Once error is cleared, control will go back to previous mode of operation. EAF1 Airflow Switch Error Switch fails to open at end of cycle. Inspect lint screen and ductwork. Cycle power to machine (power down, then power up). Once error is cleared, control will go back to previous mode of operation. EAF2 Airflow Switch Error Switch does not close after cycle starts. Inspect lint screen and ductwork. Cycle power to machine (power down, then power up). Once error is cleared, control will go back to previous mode of operation. EC:00 General Communication Error Communication failure. Try card again. EC:02 or EC02 Timeout Error Communication failure. Try card again. Tumble Dryer Display Description Cause/Corrective Action EC:03 or EC03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EC:05 or EC05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type and recheck the programming option's value and try again. EC:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EC:09 Corrupted Data Error Communication error. Try card again. EC:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EC:19 or EC19 No Card Reader Communication Communication failure. Check card reader, control and harness. Power down, power up and try again. If error persists, replace control or card reader. EC:20 Unreadable Card Inoperative card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be inoperative. EC:21 Security ID Mismatch Wrong card. Use card with correct security code. EC:22 Site Code Mismatch Wrong card. Use card with correct site code. EC:23 Card Maximum Value Exceeded Value on card over max. Use a card which does not exceed maximum value. EC:24 Insufficient Memory on Card Card memory is full. Download card contents to PC and clear card for re-use. EC:25 Card Reader Malfunction Inoperative Card Reader. Card Reader may need to be replaced. EC:26 Card Write Error Try card again. If error persists, card may be inoperative. EC:27 Diagnostic Test Card Write Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:28 Diagnostic Test Card Read Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:29 Diagnostic Test Memory Test Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2A Diagnostic Test Card Interface Failure Inoperative Card Reader. Card Reader may need to be replaced. Tumble Dryer Display Description Cause/Corrective Action EC:2b Diagnostic Test Flash Checksum Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:30 Timeout Error Card Reader may need to be replaced EC:31 Hotlisted Card Inserted Into Reader Card hotlisted. Control will destroy card. EC:50 Loyalty Purse Read Error Try card again. If error persists, card may be inoperative. EC:56 Loyalty Purse Write Error Try card again. If error persists, card may be inoperative. EC11 No Card Reader Initialization Communication is valid, but there is no card reader initialization. Power down, power up and try again. EC18 No Communication Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader. EC36 Audit Card Removed Prematurely Re-insert audit card and wait until machine prompts for card removal. EI:00 General Communications Errors Communication failure. Re-aim external device and try again. EI:01 or EI01 Transmission Failure Communication failure. Re-aim external device and try again. EI:02 or EI02 Device Timeout/Timeout Error Communication failure. Re-aim external device and try again. EI:03 or EI03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EI:04 or EI04 Expecting Upload Request or Command Packet Time Out Communication failure. Re-aim external device and try again. EI:05 or EI05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type, values entered are within the minimum and maximum limits and recheck the programming option's value and try again. EI:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EI:07 Error Writing to RTC Control failure. Control may need to be replaced. EI:08 Error Writing to EPROM Control failure. Control may need to be replaced. Tumble Dryer Display Description Cause/Corrective Action EI:09 or EI09 CRC-16 Error Communication failure. Re-aim external device and try again. EI:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EI:0F or EI0F Invalid Wakeup or IR Disabled Communication failure or IR is disabled. Manually enable IR on control/Re-aim external device and try again. EI0A Framing Error Communication error. Re-aim external device and try again. EI0C Time-out Exceeded Communication error. Re-aim external device and try again. EI0E Encryption Error Incorrect machine type. Before downloading, ensure data is for current machine type and check security code and retry. EnoiSt Moisture Sensor Error Push Back keypad to clear the error. EoP Open Termistor Error Remove any lint build-up around thermistor. If problem persists, replace control or thermistor. Err Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. ESEtUP DIP Switch Configuration Size Mismatch Error Check temperature index harness and dipswitch settings. If problem persists, replace temperature index harness or control. ESH Shorted Thermistor Error Remove any lint build-up around thermistor. If problem persists, replace control or thermistor. Fan Motor Centrifugal Switch Error Fan Motor Centrifugal Switch Error If control attempts to turn on fan motor and fan motor contactor is sensed closed but Fan Motor Centrifugal Switch fails to close, control will go into Cool Down portion of cycle, display error message and turn on audio signal. Once Cool Down portion of cycle ends, control will continue displaying error message until power is cycled or BACK keypad is pressed. Tumble Dryer Display Description Cause/Corrective Action Fan Motor Contactor Error Fan Motor Contactor Error If control attempts to turn on heater relay and control does not sense Fan Motor Contactor is closed, control will go to Cool Down portion of cycle, display error message and turn on audio signal. Once Cool Down portion of cycle ends, control will continue displaying error message until power is cycled or BACK keypad is pressed. Moisture Sensor Error Moisture Sensor Error While in Idle Mode and on Cycle Menu, control will begin to monitor moisture sensor input after one minute without user input. If moisture sensor circuitry detects a load present signal read consistently (every second) for a ten minute period without user input, control will declare, a load sensed. Network Communications Error Network Communications Error Error may occur during communication with a network. When error occurs, it has no affect on an active machine cycle. OFF or oFF Break-in Alarm Shutdown Error Service door or coin vault switches. OP Open Thermistor Error Check wiring diagram between control and thermistor. Check thermistor and replace if inoperative. Check control and replace if inoperative. Open Thermistor Error Open Thermistor Error When control senses temperature less than 0 °F after first three minutes of active cycle, will go to Cool Down, display error message, and turn on audio signal. Error message will continue until any keypads are pressed, Cool Down cycle has ended, and temperature reading is greater than 0°F. Once all three occur, control will return to Idle Mode. PDA Communications Error PDA Communications Error Error may occur during communications. When error occurs, the display indicates error message on control for a few seconds. An active machine cycle is not affected Right most DP (decimal point) Lit Network Communication Error Communication failure. Wait for 1.5 minutes for error to clear. If it doesn’t, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced. rot Rotation Sensor No cylinder rotation detected. Tumble Dryer Display Description Cause/Corrective Action Rotation Sensor Error Rotation Sensor Error If machine is equipped, control will constantly monitor input and calculate cylinder’s rpm. If rpm drops to zero while cylinder is supposed to be spinning, control will go to Cool Down portion of cycle. Once Cool Down portion ends, control will continue to display error message until power is cycled to machine or correct keypad is pressed. SH Shorted Thermistor Error Check wiring diagram between control and thermistor. Check thermistor and replace if inoperative. Check control and replace if inoperative. Shorted Thermistor Error Shorted Thermistor Error When control senses temperature greater than 210 + 4 °F during an active cycle, control will enter Cool Down portion of cycle, display error message, and turn on audio signal. Error message will continue until any keypads are pressed, Cool Down cycle has ended, and temperature reading is less than 210 °F. Once all three occur, control will return to Idle Mode. Stove and Cabinet Limit Errors Stove and Cabinet Limit Errors While heat relay is on, if stove temperature or cabinet temperature reaches high temperature for particular limit thermostat, heater will turn off automatically and control will continue cycle with no heat until limit thermostat resets. Once control reaches End of Cycle it will display appropriate error message, and sound audio signal. Control will continue displaying error message until it returns to Idle mode. On models where stove and cabinet limit thermostats need to be manually reset, thermostat(s) must be reset prior to cycling power or control will return back to Error Mode. UEn Airflow Switch Airflow switch is in open position or is faulty. Washer-Extractor (Ripon made) Washer-Extractor (Ripon made) Display Description Cause/Corrective Action 00 Programming Key Error Programming key in wrong place. Correct position of program key. 01 General Error Not used. No action required. 02 Program Error Program Error Program selected does not exist. Select another program. 03 General Error Appears when processor is energized the first time. No action required. 03 Memory Error Failure of RAM memory. Replace RAM memory. 04 Water Level Error Water level not reached after 15 minutes. Check inlet water supply, water valves, drain valve and water level switch. 06 Temperature Error Programmed temperature was not reached after 60 minutes. Check auxillary heating system, inspect drain valve and check water level switch. 07 Level Switch Error Level switch detects water remaining in the drum at the end of the cycle. Inspect drain valve and check drain outlet. 08 Temperature Sensor Error The temperature sensor or temperature sensor circuit is defective. Replace temperature sensor. Repair sensor wiring. 09 Motor Thermal Error Motor thermal protector was activated. Check the following: motor, motor connections, contactors, input voltage, inverter, motor and machine bearings and print board (if applicable). 10 Out of Balance Error Out of balance switch was activated at the start of a cycle. Check for an unbalanced load. 11 Level Switch Error Level switch detects water in the drum at the start of a cycle. Inspect inlet water valves and inspect drain valve. 12 Drain Error Water was not drained after three minutes. Inspect drain valve and check drain output. A0 Program Error Program key in wrong position when trying to access Program Mode. Correct position of program key. A2 Program Error Program selected does not exist. Select another program. A3 Program Error Program was not pre-programmed or memory has been lost. Replace E Prom. A4 Water Level Program Error Programmed water level was not reached after 15 minutes. Check inlet water supply, inlet water valves, drain valve and water level switch. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action A5 Temperature Program Error Programmed temperature was not reached after 60 minutes. Check auxillary heating systems, inspect temperature sensor and check water safety level switch. A6 Temperature Error Temperature in the cylinder is unsafe at the end of the cycle. Allow laundry to cool down before removing. A7 Drain Error Level switch detects water remaining in the drum at the end of the cycle. Inspect drain valve and drain outlet. A8 Temperature Sensor Error Temperature sensor or temperature sensor circuit is defective. Replace temperature sensor. Repair sensor wiring. A9 Motor Thermal Error Motor thermal protector was activated. Check the following: motor, motor connections, contactors, input voltage, inverter, motor and machine bearings. Ab Drain Error Level switch detects water remaining in the drum at the end of the cycle. Inspect inlet water valves and drain valve. Ac Drain Error Water was not drained after three minutes. Inspect drain valve and drain outlet. Ad Speed Sensor Error The machines is not running at correct RPM or speed sensor is defective (if Ad is blinking it will take 4-5 minutes to unlock door). Check door lock circuit. Inspect door lock mechanism. AE Position Error Cylinder cannot find the correct position (Hygienic machines only). Press "NO" to position tub at load or unload side, press "1" to open load door and press "2" to open unload door. AG Speed Sensor Error The final spin was at a lower RPM (Smart Spin) than programmed. Check for an unbalanced load. AH Tilt Switch Error Maximum number of tilts was exceeded, skipping the final spin. Check load size and type. Check for an unbalanced load. Alrn or ALrn Break-in Alarm Error Access panel or coin vault switches. Power down machine to clear if Auto-Shutdown is on. Current Sensor Error Current Sensor Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. DC Bus Error DC Bus Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. door Door Open Indicator Door is not closed during an active cycle. If door is closed, check for improper wiring or inoperative door switches. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action Door Lock Error Door Lock Error Door Lock Error Control senses unlocked loading door during cycle and records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. Door Open Error Door Open Error Control senses open loading door during cycle and records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. Drain Alarm Error Drain Alarm Error When drain alarm time is exceeded, control records error. Cycle is stopped and Stopped Error Menu is displayed. Continue or abort cycle. Drive Balance Switch Error Drive Balance Switch Error Control detects variable frequency drive (VFD) balance switch input is closed at start of drain steep and records error. Cycle is aborted an d Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. Drive Fault Error Drive Fault Error Control detects VFD fault switch is open and records error. E General Error Check keypad. E db Drive Balance Switch Error VFD balance switch closed at start of drain step. Power down machine. E dF Drive Failure Motor unplugged, motor failure, tachometer circuit open or drum locked up. Unpower machine to reset. E dl or E dL Door Lock Error Door does not lock immediately upon closing (open and reclose door) or doesn’t unlock 5 seconds after cycle completion. Power down machine and retry. E do, E:dO or E:do Door Open Error Control detects door open. Caused by pulling on door while locked or about to lock. Correct inoperative door locking system. End cycle. Power down machine to clear. E dr or E:dr Drain Alarm Error Machine did not drain, maximum drain time exceeded or water sensed at end of spin. Power down machine. E FL Fill Error Programmed water level not reached within 5-90 minutes in any fill agitate cycle. End cycle. Power down machine to clear. E FS Frame Balance Switch Error Frame balance switch is open. End cycle. E Ht Heat Alarm Error Programmed heat alarm time of 120 minutes or other programmed length of time is exceeded. Turns off heater output for remainder of cycle. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action E Ld or E LF Water Leak Detection Error Control senses a drop or increase in water level during diagnostic testing. Power down machine to clear. Control shows error after door is open (when cycle is completed) for one minute or after test has been completed, the right-most decimal point on display lights and the error information will be logged in audit data. E oP Open Temperature Sensor Error Control senses temperature less than 0ºF (-18ºC). Heater and thermistor operations are disabled for cycle. E Pr Low Level Pressure Switch Error If control senses that low level pressure switch is in incorrect position at any point after first fill step in production test cycle. Cycle will terminate. Power down machine to clear. E ro Rotation Sensor Error Invalid signal from rotation sensor. Control will activate coast times to complete cycle. E rr Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. E Sd Slow Drain Error Control senses the time required to drain the water is too long, the control shows error after door is open (when cycle is completed) for one minute, the right-most decimal point on display lights and the error information will be logged in audit data. E SH Shorted Temperature Sensor Error Control sense temperature greater than 220ºF (104ºC). Heater and thermistor operations are disabled for cycle. E SP SPI Communications Error Front End control cannot communicate with output board. Power down the machine, power up and try again. E Ub or E:Ub Unbalance Error Unable to balance load. Redistribute load and retry. E:dL Door Lock Error Door does not lock within 15 seconds of closing it or 3 minutes after cycle completion. Open and reclose door. E:FL Fill Error Pressure switch fails to open in 30 minutes in any fill/agitate cycle or maximum fill time exceeded. E:HT or E:Ht Heater Error Takes more than two hours to reach programmed heat temperature. Replace inoperative heater circuit components. E:OP Open Temperature Sensor Error Open temperature sensor circuit wiring. Change sensor. E:Pr Pressure Switch Sequence Error Pressure switches out of sequence. Change pressure switch. E:SH Shorted Temperature Sensor Error Short in temperature sensor circuit wiring. Change sensor. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action E:SP Serial Communication Error Master control cannot communicate with motor control. Master control will try to reset the motor control by powering it down. The error will display after three reset attempt failures. Caused by transformer unplugged or wiring to motor control incorrect. E3 Faulty Value or Damaged E Prom Re-program faulty value or replace the E Prom. E3 1 - E3 9 Probable Vend Price Error This indicates an incorrect price adjustment for the program (i.e., a coin value of "0" or larger than "1000" was programmed). Correct coin value adjustment. E4 Water Level Error The cycle's programmed water level was not reached within 15 minutes. Inspect the water inlet supply, water inlet valves, drain valve and water level switch. E5 Heating Error The cycle's programmed temperature was not reached within 80 minutes. Inspect the auxiliary heating system, temperature sensor and water safety switch. E5 Water Level Error The programmed water level was not reached after 80 minutes. Check inlet water supply, inspect inlet water valves, inspect drain valve and check water level switch. E6 Door Lock Error The door lock was released during the cycle. Inspect the door lock and door lock circuit. E7 Drain Error The water did not drain and the machine did not go into spin. Inspect the drain valve and drain outlet. E8 Temperature Sensor Error The temperature sensor's wiring or the temperature sensor is damaged. Inspect the temperature sensor's wiring. Replace the temperature sensor as needed. E9 Motor Protection Error The thermo-magnetic protection was activated 5 times, indicating a high motor current. Inspect the motor wiring connections, motor, contactors, input voltage, inverter, motor/ machine bearings and for excessive soap left in the basket at the end of the cycle. EA Tilt Switch Error The tilt switch was activated 15 times and the final spin was skipped, indicating an unbalanced load. Inspect the load size/type and the machine's drain valve. Eb Tilt Switch Error The tilt switch is activated at the start of a cycle or permanently interrupted. Adjust the tilt switch as needed and check load size and type. Inspect drain valves. EC:00 General Communication Error Communication failure. Try card again. EC:02 or EC02 Timeout Error Communication failure. Try card again. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action EC:03 or EC03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EC:05 or EC05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type and recheck the programming option's value and try again. EC:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EC:09 Corrupted Data Error Communication error. Try card again. EC:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EC:19 or EC19 No Card Reader Communication Communication failure. Check card reader, control and harness. Power down, power up and try again. If error persists, control or reader is inoperative. EC:20 Unreadable Card Inoperative card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be inoperative. EC:21 Security ID Mismatch Wrong card. Use card with correct security code. EC:22 Site Code Mismatch Wrong card. Use card with correct site code. EC:23 Card Maximum Value Exceeded Value on card over max. Use a card which does not exceed maximum value. EC:24 Insufficient Memory on Card Card memory is full. Download card contents to PC and clear card for re-use. EC:25 Card Reader Malfunction Inoperative Card Reader. Card Reader may need to be replaced. EC:26 Card Write Error Try card again. If error persists, card may be inoperative. EC:27 Diagnostic Test Card Write Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:28 Diagnostic Test Card Read Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:29 Diagnostic Test Memory Test Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2A Diagnostic Test Card Interface Failure Inoperative Card Reader. Card Reader may need to be replaced. EC:2b Diagnostic Test Flash Checksum Failure Inoperative Card Reader. Card Reader may need to be replaced. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action EC:30 Timeout Error Card Reader may need to be replaced EC:31 Hotlisted Card Inserted Into Reader Card hotlisted. Control will destroy card. EC:50 Loyalty Purse Read Error Try card again. If error persists, card may be inoperative. EC:56 Loyalty Purse Write Error Try card again. If error persists, card may be inoperative. EC11 No Card Reader Initialization Communication is valid, but there is no card reader initialization. Power down, power up and try again. EC18 No Communication Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader. EC36 Audit Card Removed Prematurely Re-insert audit card and wait until machine prompts for card removal. Ed01 SPI Communication Error Front End control cannot communicate with motor drive. Power down, verify input power and 6-pin communication connection on drive and Front End control, power up and tray again. Ed02 DC Bus Error The control detects the DC bus is too high. Power down, verify line voltage is within specification, power up and try again. Ed03 Tachometer Error The drive detects the tachometer input is damaged during power up or no tachometer signal is detected after initiating motor output. Power down, verify H3 on drive and tachometer connections on motor, power up and try again. Ed04 Locked Rotor Error Motor does not reach speed at startup. Power down, verify motor mounting and look for obstructions, power up and tray again. Ed05 IGBT Overcurrent Error The drive detects an overcurrent shunt condition. Power down machine for a minimum of two minutes, verify the motor is not shorted phase to phase or phase to ground. Power up and tray again. If problem persists, replace drive. Ed06 Thermal Error The control detects a high IPM temperature. Power down, verify convection around drive heat sink, power up and try again. Ed07 No Setup Error The drive receives movement commands without receiving a setup packet. Power down, power up and try again. Ed08 Max Over Current Error The drive detects motor output overcurrent condition. Power down, power up and try again. Ed09 Current Sensor Error The drive detects a current sensor is not operating properly at startup. Power down, power up and try again. If problem persists, replace drive. Ed10 Low DC Bus Error The drive detects a low DC Bus voltage. Cycle will continue, no user input required. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action Ed11 Invalid Command Error The drive received an invalid motor movement command. Cycle will continue, no user input required. EI:00 General Communications Errors Communication failure. Re-aim external device and try again. EI:01 or EI01 Transmission Failure Communication failure. Re-aim external device and try again. EI:02 or EI02 Device Timeout/Timeout Error Communication failure. Re-aim external device and try again. EI:03 or EI03 Invalid Command Code Communication successful, but the command was not valid for this machine type, or the control could not perform the command in its current mode of operation. Before downloading, ensure data is for current machine type and control is in correct mode. EI:04 or EI04 Expecting Upload Request or Command Packet Time Out Communication failure. Re-aim external device and try again. EI:05 or EI05 Invalid or Out-of-Range Data Incorrect machine type or the value in at least one of the programming options is invalid or out of range. Before downloading, ensure data is for current machine type, values entered are within the minimum and maximum limits and recheck the programming option's value and try again. EI:06 Invalid Data Code Incorrect machine type. Before downloading, ensure data is for current machine type. EI:07 Error Writing to RTC Control failure. Control may need to be replaced. EI:08 Error Writing to EPROM Control failure. Control may need to be replaced. EI:09 or EI09 CRC-16 Error Communication failure. Re-aim external device and try again. EI:0A Invalid Machine Type Incorrect machine type. Before downloading, ensure data is for current machine type. EI:0F or EI0F Invalid Wakeup or IR Disabled Communication failure or IR is disabled. Manually enable IR on control/Re-aim external device and try again. EI0A Framing Error Communication error. Re-aim external device and try again. EI0C Time-out Exceeded Communication error. Re-aim external device and try again. EI0E Encryption Error Incorrect machine type. Before downloading, ensure data is for current machine type and check security code and retry. EOP Temperature Sensor Error The temperature sensor has detected a temperature below 4 C. Check sensor wiring. Replace temperature sensor. Err Coin Error Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action ERROR 1 Program Title Error After installation of new display board, the titles were not copied from mainboard to the display board. Copy titles to new display board. ERROR 2 Component Unknown A wash component is unknown in the wash program. Program new component. ERROR 3 Component Error Incorrect wash data - a wash component is created with incorrect length. Program correct wash data and correct length. ERROR 4 Subroutine Not Found Refers to unknown component. Program new component. ERROR 5 Wrong Password Incorrect password is used for entering test menu or editing menu. Enter correct password. ERROR 6 Wash Data Error Incorrect or incomplete wash data. Program correct or complete wash data. ERROR 7 Inverter Communication Error No communication or incomplete communication between inverter and mainboard. Inspect wiring between inverter and mainboard. ERROR 8 Inverter Autotuning Error Incorrect status during autotuning. Check status during auto tuning. ERROR 9 Inverter Parameter Error Writing of parameter is refused or error during writing of parameters to the inverter. Inspect wiring at inverter. Check parameter and reprogram. ERROR 10 Inverter Status Error Error message on the inverter. Check inverter. ERROR 11 Real Time Clock Error Read-out error on the clock. Inspect wiring at clock. Check clock and reprogram. ERROR 12 Tilt Switch Error Incorrect functioning or connection of the tilt switch when you start a cycle. Check tilt switch. Inspect wiring to the tilt switch. Using test program, check tilt switch’s input signal. ERROR 13 Temperature Error At startup, the temperature is higher than 95 C or after 6 minutes the temperature is still lower than 6 C or higher than 95 C. Inspect temperature sensor. Check water temperature. Check programmed temperature. ERROR 14 Temperature Error Inspect temperature sensor. Inspect heating resistances/relays and wiring. Check input/output voltage of temperature sensor on main board. Using test program, test temperature sensor. ERROR 15 Level Sensor Error At startup, the water level is lower than 4 cm, higher than 2 cm (positive offset) or higher than 10cm (negative offset). Check inlet water supply, inlet water valves, drain valve and water level switch. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action ERROR 16 Can Communication Error No communication between the mainboard and the display board. Inspect the wiring between mainboard and display board. ERROR 17 Wrong Machine Type Incorrect machine type programmed with the wash data. Program correct machine type. ERROR 18 Wrong Wash Data Error Wash data on main board does not correspond with machine type. ERROR 19 ID Chip Read Error Error reading identification chip. Verify correct chip is in machine. Check wiring. ERROR 20 ID Chip Write Error Error by a writing action to the identification chip. Program correct action to the ID Chip. Check wiring. ERROR 21 MMC Transfer Error Error during the transfer of data to MMC Card. Check wiring. ERROR 22 Door Lock Error Door will not lock after 5 failed attempts in 10 seconds. Check door lock circuit. Inspect door lock mechanism. Using test program, check input signals S1 and S2. ERROR 23 Wash Data Version Error The wash data is not corresponding with the type of display. Reprogram was data. ERROR 24 Wrong Display Type Error Wrong display type programmed. Check display type. ERROR 25 Wash Data Backup Error Wash data will not backup. Check wiring. Check for sufficient space to save backup data. ERROR 26 New ID Chip Error Error when inserting new ID Chip. Verify correct chip is received for machine type. ERROR 27 Invalid File Size Error Incorrect file size. Check correct file size is programmed. ERROR 28 RTC Read Error Error when reading RTC. Verify correct RTC is in machine. Check wiring. ERROR 29 RTC Write Error Error by a writing action to the RTC. Program correct action to the RTC. Check wiring. ERROR 30 EProm Read Error Error when reading EProm. Verify correct EProm is in machine. Check wiring. ERROR 31 EProm Write Error Error by a writing action to the EProm. Program correct action to the EProm. Check wiring. ERROR 32 Water Level Too Low The water level was too low during the heating cycle. Check inlet water supply, inlet water valves, drain valve and water level switch. ERROR 33 Software Version Error When the main board or display board is replaced, the cards have different software versions. ERROR 34 MCU Failure Error The processor isn’t functioning properly Washer-Extractor (Ripon made) Display Description Cause/Corrective Action ERROR 50 Level Stop Error The programmed water level is not reached in a certain time. Check inlet water supply, inlet water valves, drain valve and water level switch. Using test program, test water inlet valves, water level sensor and drain valves. ERROR 51 Heat Stop Error The programmed temperature is not reached in a certain time. Check auxillary heating system, temperature sensor and water safety level switch. Using test program, test heating resistances and water level switch. ERROR 52 Drain Error Water level is not lowered within 2m after 2 minutes upon completion of a wash cycle (Machines with a drain valve, water level must be "0" after 8 minutes upon completion of a wash cycle and machines with a pump drain, water level must be "0" after 4 minutes). Inspect drain valve and drain outlet.Using test program, test function of drain valve. ERROR 53 Heating Error The programmed temperature is not reached after 20 minutes. Check auxillary heating system, drain valve and water level switch. Using test program, test heating resistances and water level switch. ERROR 54 Fill Error The programmed water level is not reached after 6 minutes. Check inlet water supply, inlet water valves, drain valve and water level switch. Using test program, test water inlet valves, water level sensor and drain valve ERROR 55 Rotation Sensor Error The rotation signal is missing for 30 seconds. Check rotation sensor. ERROR 56 Spin Retry Error Programmed number of imbalances is reached. Check load size and type. Check for an unbalanced load. ERROR 57 Extraction Error Error occurred during extraction. Check load size and type. Check for an unbalanced load. ERROR 58 Dry Error ERROR 59 Door Open While Washing Error The door is opened or unlocked during the operation of the machine. Check door lock circuit. Inspect door lock mechanism. Using test program, test function of door lock. ESH Temperature Sensor Error The temperature sensor has detected a temperature above 100 C. Check sensor wiring. Replace temperature sensor. F1 Control Error There is an invalid control configuration, wrong configuration file or corrupted PS40 firmware. Load a new configuration file. Replace PS40 E Prom. F5 Door Error The door open switch was tripped during the wash cycle. Check door lock circuit and inspect door lock mechanism. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action F6 Door Error The door lock switch was tripped during the wash cycle. Check door lock circuit and inspect door lock mechanism. FA Out of Balance Error Out of balance switch was activated at start of cycle. Check load size and type. Check for an unbalanced load. FH Hardware Error There is a hardware problem or fault on printed circuit board. Replace print board. Fill Alarm Error Fill Alarm Error When fill alarm time is exceeded, control records error. Cycle is stopped and Stopped Error Menu is displayed. Continue or stop cycle. Frame Balance Switch Error Frame Balance Switch Error Control detects frame balance switch error during cycle and records error. Cycle is aborted. Power down machine and service frame balance switch error condition. Heat Alarm Error Heat Alarm Error When heat alarm time is exceeded control records error. Cycle is stopped and Stopped Error Menu is displayed. Clear error to return to Cycle Menu. Invalid Command Error Invalid Command Error When error occurs during a cycle, control aborts motor movement, control records error. Invalid Parameter Set Error Invalid Parameter Set Error Front End control cannot verify drive parameter set during a cycle, control records error. Cycle is aborted and Cycle Aborted Error Menu is displayed until user cleans error. If error occurs in any other mode, cycle power to clear error. IPM Over Temperature Error IPM Over Temperature Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. IR Communicati ons Error IR Communications Error When error occurs during IR communication, control records error. Display shows Communication Error Menu for 3 seconds. Last Drive Error Last Drive Error When error occurs during a cycle, control records error. LeU Drain Error Water is still in the tub at the end of a cycle. Locked Rotor Error Locked Rotor Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. Low DC Bus Error Low DC Bus Error When error occurs during a cycle, control aborts motor movement, control records error. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action Max Current Exceeded Error Max Current Exceeded Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. MOT Motor Current Error No current supplied to the motor. Verify flat cable is connected. Check that the cycle contact MICRO 9 closes. Replace 16 amp fuse. Tighten motor plug. Replace motor print board. Mot 2 Rotation Sensor Error The rotation sensor's wiring or the rotation sensor is damaged. Inspect the rotation sensor's wiring. Replace the rotation sensor as needed. Mot 3 Operating Hours Error The machine has operated for 5,000 hours. Replace the motor brush blocks. Network Communicati ons Error Network Communications Error When error occurs during network communications, control records error. No Tachometer Error No Tachometer Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Not Motor Overload Protector Error Motor overload protector has tripped. not 1 Motor Current Error No current supplied to the motor. Verify flat cable is connected. Check that the cycle contact MICRO 9 closes. Replace 16 amp fuse. Tighten motor plug. Replace motor print board. Not 2 Speed Sensor Output Error The speed sensor's output does not match programmed speeds (variable-speed models only). not 2 Tach Pulse Error Motor print board is not receiving tach pulse from MICRO 9 control. Check wiring, replace tach generator and check contacts A, B, C or D of MICRO 9 control. not 3 Operating Hours Error The machine has operated for 5,000 hours. Replace the motor brush blocks. OFF or oFF Break-in Alarm Shutdown Error Access panel or coin vault switches. Opened with Break-In Alarm enabled. Open Temperature Sensor Error Open Temperature Sensor Error In machines equipped with temperature sensor, control senses temperature less than 5°F and records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. PDA Communicati ons Error PDA Communications Error When error occurs during communication, control records error. Display shows Communication Error Menu for 3 seconds. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action Right most DP (decimal point) Lit Network Communication Error Communication failure. Wait for 1.5 minutes for error to clear. If it doesn’t, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced. Right most DP (decimal point) Lit Slow Drain Error Check for water leak. rot Cylinder Error The cylinder is not turning. Check drive belt. Check rotation sensor. Rotation Sensor Error Rotation Sensor Error Control senses invalid signal from rotation sensor and records error. Cycle will continue with coast times loaded where rotation detection is required. Machine will operate this way until power is reset. Shorted IGBT Error Shorted IGBT Error When error occurs during a cycle, control records error. Cycle is aborted and Cycle aborted Error Menu is displayed until user clears error. Shorted Temperature Sensor Error Shorted Temperature Sensor Error In machine equipped with temperature sensor, control senses temperature less than 220°F and records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. SLE Drain Error Water is still in the tub at the end of a cycle. Slow Drain Detected During a Machine Cycle Error Slow Drain Detected During a Machine Cycle Error If slow drain error occurs during cycle, control records error and displays “Slow Drain Detected”. SPI Error SPI Error Control is unable to communicate with output board. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. Unbalance Error Unbalance Error When machine detects unbalanced load during cycle, control will run subsequent Spray Rinse Extract and Extract steps but only at reduced speed. Cycle will continue. When cycle is completed, control records error. VEn Exhaust Error The exhaust air is restricted. Clean lint screen and inspect exhaust venting. Washer-Extractor (Ripon made) Display Description Cause/Corrective Action Water Leak Detection Error Water Leak Detection Error If control detects water leak or related problem during cycle, control will record error and display “Water Leak Detected”:Drain Valve or :Fill Valve at end of cycle. If control detects water leak or related problem during diagnostic test, control will record error and display “FAIL”:Drain Valve or :FillValve. If control detects water leak or related problemd uring auto-water leak detection, control will records error and display “FAIL”:Drain Valve or :Fill Valve until any keypad is pressed to return to Cycle Menu. Water Level Sensor Error Water Level Sensor Control senses high water level from water level sensor during extract cycle step and records error. Cycle is aborted and Cycle Aborted Error Menu is displayed. Clear error to return to Cycle Menu. Washer-Extractor (Belgium made) Washer-Extractor (Belgium made) Display Description Cause/Corrective Action A0 Program Error Program key in wrong position when trying to access Program Mode. Correct position of program key. A2 Program Error Program selected does not exist. Select another program. A3 Program Error Program was not pre-programmed or memory has been lost. Replace E Prom. A4 Water Level Program Error Programmed water level was not reached after 15 minutes. Check inlet water supply, inlet water valves, drain valve and water level switch. A5 Temperature Program Error Programmed temperature was not reached after 60 minutes. Check auxiliary heating systems, inspect temperature sensor and check water safety level switch. A6 Temperature Error Temperature in the cylinder is unsafe at the end of the cycle. Allow laundry to cool down before removing. A7 Drain Error Level switch detects water remaining in the drum at the end of the cycle. Inspect drain valve and drain outlet. A8 Temperature Sensor Error Temperature sensor or temperature sensor circuit is defective. Replace temperature sensor. Repair sensor wiring. A9 Motor Thermal Error Motor thermal protector was activated. Check the following: motor, motor connections, contactors, input voltage, inverter, motor and machine bearings. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action Ab Drain Error Level switch detects water remaining in the drum at the end of the cycle. Inspect inlet water valves and drain valve. Ac Drain Error Water was not drained after three minutes. Inspect drain valve and drain outlet. Ad Speed Sensor Error The machines is not running at correct RPM or speed sensor is defective (if Ad is blinking it will take 4-5 minutes to unlock door). Check door lock circuit. Inspect door lock mechanism. AE Position Error Cylinder cannot find the correct position (Hygienic machines only). Press "NO" to position tub at load or unload side, press "1" to open load door and press "2" to open unload door. AG Speed Sensor Error The final spin was at a lower RPM (Smart Spin) than programmed. Check for an unbalanced load. AH Tilt Switch Error Maximum number of tilts was exceeded, skipping the final spin. Check load size and type. Check for an unbalanced load. E3 Damaged E Prom Replace the E Prom. E4 The cycle's programmed water level was not reached within 15 minutes Inspect the water inlet supply, water inlet valves, drain valve and water level switch. E5 The cycle's programmed water level was not reached within 80 minutes Inspect the water inlet supply, water inlet valves, drain valve and water level switch. E6 The door lock was released during the cycle Inspect the door lock and door lock circuit. E7 The water did not drain and the machine did not go into spin Inspect the drain valve and drain outlet. E8 The temperature sensor's wiring or the temperature sensor is damaged Inspect the temperature sensor's wiring. Replace the temperature sensor as needed. E9 The thermo-magnetic protection was activated 5 times, indicating a high motor current Inspect the motor wiring connections, motor, contactors, input voltage, inverter, motor/machine bearings and for excessive soap left in the basket at the end of the cycle. E1 Drain failure cooldown Error occurs when the electronic timer detects water is not drained after 3 minutes in a cooldown sequence. Check drain tube and repair if necessary. Check wiring to valve and repair. Check drain valve and replace if necessary. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E2 Drain failure Occurs when electronic timer detects water is not drained after 3 minutes in a drain or spin sequence. Check drain tube and repair if necessary. Check wiring to valve and repair. Check drain valve and replace if necessary. E3 Out of balance before spin Error will occur before spin sequence is started and machine will not spin. Make sure out of balance switch is correctly mounted. Check wiring to switch and make sure there are no loose connections or repair wiring if no continuity. Check if out of balance switch is broken and replace. E4 Out of balance normal spin Error will occur when machine is badly loaded. Machine will try up to 10 times to redistribute laundry in drum before error occurs. Make sure out of balance switch is correctly mounted. Check wiring to switch and make sure there are no loose connections or repair wiring if no continuity. Check if out of balance switch is broken and replace. E5 Out of balance high spin Occurs when out of balance sensor is activated during high spin. Check position of out of balance switch and make sure is correctly mounted. Check springs and other mechanical parts that fix the drum and replace as necessary. Check wiring to switch and repair. Make sure machine is installed correctly and stable. E6 Door switch failure If during the wash cycle the washer computer detects the door switch is not closed, the machine will immediately stop all functions and the door will stay locked. Check the door switch and replace if it is broken or malfunctions. Check the continuity of the wiring and repair if necessary. Check the door switch at the inputs menu and if not functional, replace wash computer. E7 Door lock solenoid switch failure If during the wash cycle the washer computer detects the door lock solenoid switch is not closed, the machine will immediately stop all functions and the door will stay locked. Check the door lock solenoid switch and replace if it is broken or malfunctions. Check the door lock coil and if it’s not functioning properly, replace it. Check the mechanical functionality of the door lock and if it’s not functioning properly, replace the door lock system. Check the continuity of the wiring and repair if necessary. Check the door switch at the inputs menu and if not functional, replace wash computer. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E8 Door lock check at start failure This error will occur each time the door lock sequence cannot be finished once started. Make sure door handle is centered against door lock and replace handle if damaged. Make sure input connector DL is connected. Repair ore replace door lock solenoid switch and door lock coils if not working properly. Replace door lock system if not functioning mechanically. Make sure there is continuity in the wiring. Check the output relay that powers the door lock coil and replace computer if relay is broken. Make sure door lock solenoid switch is functioning properly at the inputs menu; if not, replace computer. If the door switch is broken or does not function correctly, replace door switch. E9 Door lock solenoid switch closed failure at cycle end If within 30 seconds of the end of the cycle the door lock solenoid switch does not open, this error will occur. Check the door lock solenoid switch and repair or replace. Make sure door lock coil is functioning properly and replace if necessary. Make sure mechanical functionality of door lock is good and replace door lock system if there is a problem. Make sure there is continuity of the wiring. If out put relay that power door lock coils is broken, replace the wash computer. E10 Bimetal/Spring The bimetal/spring is checked each cycle to make sure door cannot be opened immediately when power is switched off. Error will occur if bimetal/spring is defective. Check bimetal/spring and replace if defective. Make sure mechanical functionality of door lock is good and replace door lock system if there is a problem. Make sure there is continuity of the wiring. Check door unlock coil and make sure it’s working properly. If out put relay that power door lock coils is broken, replace the wash computer. E11 Fill failure This error occurs when the water level has not reached its target level in the maximum fill time. If water flow is very slow, increase the value for the max fill time. Check that the external water valves are open and free of dirt. Make sure the coil of the water inlet valve is working properly. Replace drain valve if defective. Make sure rubber hose is mounted properly. Make sure air hose on electronic sensor is air tight and doesn’t contain any water. Check continuity of wiring and repair as necessary. Check output relay that powers inlet valves and drain valve and replace wash computer if relays not working properly. E12 Overfill failure This error occurs if the water level exceeds the maximum water level. Make sure water inlet valves are not broken and

clean or replace as needed. Make sure water pressure is not too high. Check output relay that powers inlet valve and replace wash computer if relay is not working properly. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E13 Heating failure This error occurs if the temperature is not raised 3°C (37°F) in 10 minutes. Make sure the heating contactor is activated and repair the wiring or replace the contactor. Check the heating elements and if they are not heating, repair the wiring or replace thee heater elements. Make sure the temperature sensor is functioning and replace as necessary. Check output relay that powers the heating contactor and replace wash computer if relay is not working properly. E14 Heating time failure Error will occur after the programmed maximum heating time has passed and the target temperature is not reached. If the machine has a small hating capacity, increase the value of the max heating time. Check if the heating resistors are heating and repair the wiring or replace the defective heater elements. Make sure water temperature is not too low. Make sure the temperature sensor is functioning and replace if defective. E15 Too hot Error will occur if water temperature is 15°C (59°F) above target temperature. Check if the correct water inlet valves have been programmed. Choose the correct water inlet valves for the wash sequence or adjust the parameters of the wash program. Make sure water inlet valves are functioning properly. Make sure supplied water temperature is not too hot. Make sure temperature sensor is functioning and replace if faulty. Replace heating contactor if it stays closed. Check the output relay that power the heating contactor. If the relay stays closed and the relay is broken, replace the power board. If the relay is not broken but receives a not allowed signal from the wash computer, replace wash computer. E21 Overflow failure This error occurs when the water level raises above the hole of the overflow tube. Make sure overflow hole and tube are not blocked. Make sure drain tube is not blocked. Make sure water inlet valves are working properly. Make sure output relay that powers the water inlet valve is working properly. If relay stays closed and is broken, replace wash computer. E22 Flush failure When the flush valve is active and the machine is losing 7 cm (2.75 in.) of water, the drain will be opened. Check drain valve and replace if it's losing water. If machine is losing water, replace defective parts. E24 Defective level sensor Error occurs during wash cycle. Check level sensor visually and replace wash computer if you see damage. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E25 Defective temperature sensor Error occurs during wash cycle. Make sure temperature sensor is connected on the PCB board. Check temperature sensor and replace if damaged. Make sure the resistance is correct on the sensor and replace as needed. Make sure earth wire is at the middle of the connector. Check PCB board and replace if damaged. E26 Undefined frequency inverter error code This error occurs if inverter gives an error message that is not recognized by the wash computer. Updating the software might help discover which error code occurred. Contact manufacturer if problem persists. E27 Communication fault inverter Error occurs when there is no communication between wash computer and inverter. If the inverter or washer computer is new, make sure the right machine type and washing machine power supply have been selected. Make sure door is closed and locked. Make sure inverter is energized. If power is not getting to the inverter, repair power supply. If supply voltage is OK, replace inverter. Make sure fuses are operational. Make sure safety inverter contactor is working properly. Make sure connectors on both sides of communication cable are still connected. Make sure wiring is OK. If output relay is broken, replace wash computer E28 THT (Mitsubishi) / E. OL (KEB) Timeout Error occurs when the wash computer cannot handle the fault of the inverter. Make sure correct machine type is selected. Make sure the correcter inverter parameters are loaded into the wash computer. Make sure power supply is sufficient and stable during extraction load. Check that drum rotates normally by hand and repair or clean as necessary. If fault is persistent, contact manufacturer. E29 OV3 (Mitsubishi) / E. OP (KEB) Timeout Error occurs when the wash computer cannot handle the fault of the inverter. Make sure correct machine type is selected. Make sure the correcter inverter parameters are loaded into the wash computer. Check if there was unbalance during extraction - always put a full load in the machine. If fault is persistent, contact manufacturer. E31 Initialization fault inverter Error occurs when there is a problem while wash computer writes the dedicated inverter parameters into the inverter EPROM memory. Error means not all dedicated inverter parameters have been loaded and as a result the inverter will not work correctly. Make sure door is closed and locked. Make sure inverter is energized. Try to write parameters to the inverter again. If fault is persistent, contact manufacturer. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E32 Verification fault inverter Error occurs if wrong parameter is detected at the verification of the inverter parameters. Make sure correct machine type is selected, door is closed and locked and that inverter is energized. Write parameters to inverter again. If fault is persistent, contact manufacturer. E33 Stall prevention function This error indicates that the stall prevention of the frequency inverter is sometimes functioning. Make sure drum is not overloaded. Check to see if the correct machine type is selected. Make sure dedicated inverter parameters have been loaded by the wash computer. Make sure there are no mechanical parts broken and replace as necessary. E35 Wrong software version When a new software that isn't backward compatible with previous software versions is loaded, the software will detect that the old and new software is not compatible. The wash computer must be reconfigured. E37 Drain failure at the spray sequence Error occurs when electronic timer detects that the water is not drained after 3 minutes at the spray sequence. Check drain tube and make sure it is not blocked. Make sure drain valve is working properly. Check wiring (when drain valve is switched off, drain valve should be open) and repair as needed. E38 Tank with recycle water is empty Error occurs when electronic timer detects water recycle tank is empty. Machine will switch over to soft cold water. Check water level in water recycle tank and add water as needed. E39 Soap supplies are running out of soap Occurs when electronic timer detects soap reservoir is empty. Check liquid soap supply and add soap as needed. E40 Fill failure due to an empty water recycle tank Error occurs when the electronic timer gets a signal that the water recycling tank is empty. At the same time, the water level will not raise anymore and an error will be generated if the programmed water level is not reached in the max fill time. Check water level in recycle tank and add water as needed. If water flow is slow, increase value of max fill time. Make sure external water valves are open. Make sure water inlet valves are not blocked by dirt. If coil on water inlet valve is open, replace the coil or the whole inlet valve. Make sure drain valve is working properly. Make sure rubber hose for measuring water level is mounted well on the water level sensor and on the drain valve. Make sure air tube on electronic sensor is air tight and does not contain water. Check continuity of wiring and repair as needed. Check output relay that powers inlet valves and drain valves. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E41 Service due warning This error occurs when the cycle counter of the electronic timer has reached the programmed value for service due. Error message will be erased by opening the door. If cycle counter has not been reset the message will appear again at the end of the next wash cycle. Reset cycle counter in the service menu. E42 No network connection Error appears when no network connection is available. Check the network cable and replace if broken. Check the RS232- RS485 converter. If converter is out of order, replace it. E43 Wrong voltage range selection Error occurs when the wrong voltage range has been selected in the configuration menu. Depending on the machine type and inverter type, certain voltage ranges are not allowed. Check machine identification plate at the back of the machine. Select the same voltage range in the configuration menu as on the identification plate of your machine. E44 Wrong inverter model type Error occurs when wrong inverter model type has been detected by wash computer software. Make sure correct machine type is selected in configuration menu. Check machine identification plate and select the same voltage range in the configuration menu as on the identification plate. E52 PCB-EPROM CRC failure At power-up, wash computer checks if factory settings in EPROM are OK. Error occurs when there is a wrong CRC reading of the data from the EPROM. The wash computer needs to be reset by manufacturer. E53 PCB-EPROM data out of range At power-up, wash computer checks if factory settings in EPROM are OK. Error occurs by reading out of range data from the EPROM. The wash computer needs to be reset by manufacturer. E60 No detection motor speed signal at wash Error occurs when there is no feedback speed signal from the motor drive at the wash sequence. The wash computer will try three times to reset the drive motor. After three times, this error becomes active. Check the communication cable, motor drive, motor and power cable. Repair or replace if any are defective. Check output relay that powers the motor drive and replace wash computer if relay is broken. Check contactor power supply motor drive and replace contactor if it is broken. E61 Motor doesn't stop spinning Error occurs when there is a feedback speed signal from the motor drive when the motor is not turning and the motor drive is not expected to return a speed signal. Will try to reset one time. Check the wire bridge on the mobile connector motor drive and close the motor bridge if it is open. Check communication cable and motor drive. Repair or replace if either are defective. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E62 Motor spins too fast Error occurs when speed exceeds more than 50 RPM above target speed. Will try to reset one time. Check the communication cable, motor drive, motor and belt. Repair or replace if any are defective. E63-E67 Reset Motor Drive for E60, E61 and E62 After error 60 tries one time to reset, failure 63 appears. After error 60 tries to reset the second time, failure 64 appears. After error 60 tries to reset the third and final time, failure 65 appears. Error 61 will try to reset one time and if it fails, error 66 will appear. Error 62 will try to reset one time and if it fails, error 67 will appear. E68 No detection motor speed signal at spin Error occurs when there is no feedback speed signal from motor drive at spin sequence. Check the communication cable, motor drive, motor and power cable. Repair or replace if any are defective. Check output relay that powers the motor drive and replace wash computer if relay is broken. Check contactor power supply motor drive and replace contactor if it is broken. E69 Unbalance input should not be high on R machines Occurs when input for unbalance detection for F machines is high. Make sure correct machine type is selected. Make sure wiring is correct. Check F machine input unbalance detection. There must not be a wire bridge at the input unbalance detection. If input is broken, replace wash computer. E70 RS7 selected in case of RS10 Error occurs when wrong machine type is selected. Make sure correct machine type is selected. E71 RS10 selected in case of RS7 Error occurs when wrong machine type is selected. Make sure correct machine type is selected. Make sure wire bridge on mobile connector F pins 1 and 3 is available. E72 No wire bridge terminals 16-20 Occurs when wire bridge at KEB terminals 16-20 is missing. Make sure there is a wire bridge at terminals 16-20. If fault is persistent, contact manufacturer. E73 No KEB parameters loaded in inverter Occurs when the dedicated parameters have not been loaded in the KEB inverter. Make sure correct inverter parameters have been loaded in wash computer. If fault is persistent, contact manufacturer. E74 Inverter not switched off at end of cycle Occurs when inverter contactor does not open at end of wash cycle. Check if contacts on contactor stay closed after cycle has finished and replace if they open. Check output relay that powers inverter contactor and replace wash computer if relay is broken. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E75 Undefined frequency inverter error code Error occurs if inverter gives an error message which is not recognized by wash computer. Updating wash computer software might help discover what inverter error code really occurred. Inform manufacturer. E78 At standby door lock is locked while door is open Error occurs when at standby mode (machine is on but no wash cycle is running) the door lock switch is in locked state while the door is open. Close door slowly with limited force. If error message disappears, machine goes into standby mode and can be further used. If error does not disappear, repair or replace door lock. E79 After pressing start, door lock is locked while door is open Occurs when during door locking sequence the door lock switch is in locked state and door (door switch) is open. Make sure door lock system is functioning properly and repair or replace if defective. E80 Timeout input 16/Soap Timeout Error occurs when on hold signal of liquid supply central dispensing system stays high for more than 1 hour. Make sure central soap dispensing system operates correctly and repair if faulty. Make sure wiring of on hold input signal is not damaged and repair as necessary. Check inputs on wash computer and if faulty, replace wash computer. E300-E353 Mitsubishi inverter alarm Always make sure the correct inverter parameter settings are in the inverter. Go to configuration menu and select inverter menu, set correct machine type and supply voltage and load parameters from wash computer to inverter again. Refer to Programming Manual if you continue to get errors. E400-E441 KEB inverter alarm Always make sure the correct inverter parameter settings are in the inverter. Go to configuration menu and select inverter menu, set correct machine type and supply voltage and load parameters from wash computer to inverter again. Refer to Programming Manual if you continue to get errors. E500-E520 Memory error If memory errors occur, there is a problem with the EPROM. Try to reload the washing program. Check for source of electrical “noise”. E550 Wrong DAQ memory version Error occurs when after installing new wash computer software the DAQ memory structure is not compatible anymore. There are two ways to reset the DAQ memory: automatically by loading the wash computer default settings at the configuration menu or by the trace-tech PC software for which the DAQ memory is of importance. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action E551 Problem writing DAQ memory Occurs when wash computer fails to write data in the DAQ traceability memory segment. Reset DAQ traceability memory segment. If problem persists, replace wash computer E552 DAQ traceability memory is full Occurs when wash computer DAQ memory is completely filled with traceability data. Data should be removed by traceability PC software. E553 DAQ traceability memory is almost full Error occurs when 85% of DAQ traceability memory segment contains wash cycle data. Data should be unloaded by the traceability PC software before the memory is completely filled up. E600-E628 Software error If a software error occurs, contact manufacturer. EA The tilt switch was activated 15 times and the final spin was skipped, indicating an unbalanced load Inspect the load size/type and the machine's drain valve. Eb The tilt switch is activated at the start of a cycle Adjust the tilt switch as needed. ERROR 1 Program Title Error After installation of new display board, the titles were not copied from mainboard to the display board. Copy titles to new display board. ERROR 2 Component Unknown A wash component is unknown in the wash program. Program new component. ERROR 3 Component Error Incorrect wash data - a wash component is created with incorrect length. Program correct wash data and correct length. ERROR 4 Subroutine Not Found Refers to unknown component. Program new component. ERROR 5 Wrong Password Incorrect password is used for entering test menu or editing menu. Enter correct password. ERROR 6 Wash Data Error Incorrect or incomplete wash data. Program correct or complete wash data. ERROR 7 Inverter Communication Error No communication or incomplete communication between inverter and mainboard. Inspect wiring between inverter and mainboard. ERROR 8 Inverter Autotuning Error Incorrect status during autotuning. Check status during auto tuning. ERROR 9 Inverter Parameter Error Writing of parameter is refused or error during writing of parameters to the inverter. Inspect wiring at inverter. Check parameter and reprogram. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action ERROR 10 Inverter Status Error Error message on the inverter. Check inverter. ERROR 11 Real Time Clock Error Read-out error on the clock. Inspect wiring at clock. Check clock and reprogram. ERROR 12 Tilt Switch Error Incorrect functioning or connection of the tilt switch when you start a cycle. Check tilt switch. Inspect wiring to the tilt switch. Using test program, check tilt switch's input signal. ERROR 13 Temperature Error At startup, the temperature is higher than 95 C or after 6 minutes the temperature is still lower than 6 C or higher than 95 C. Inspect temperature sensor. Check water temperature. Check programmed temperature. ERROR 14 Temperature Error Inspect temperature sensor. Inspect heating resistances/relays and wiring. Check input/output voltage of temperature sensor on main board. Using test program, test temperature sensor. ERROR 15 Level Sensor Error At startup, the water level is lower than 4 cm, higher than 2 cm (positive offset) or higher than 10cm (negative offset). Check inlet water supply, inlet water valves, drain valve and water level switch. ERROR 16 Can Communication Error No communication between the mainboard and the display board. Inspect the wiring between mainboard and display board. ERROR 17 Wrong Machine Type Incorrect machine type programmed with the wash data. Program correct machine type. ERROR 18 Wrong Wash Data Error Wash data on main board does not correspond with machine type. ERROR 19 ID Chip Read Error Error reading identification chip. Verify correct chip is in machine. Check wiring. ERROR 20 ID Chip Write Error Error by a writing action to the identification chip. Program correct action to the ID Chip. Check wiring. ERROR 21 MMC Transfer Error Error during the transfer of data to MMC Card. Check wiring. ERROR 22 Door Lock Error Door will not lock after 5 failed attempts in 10 seconds. Check door lock circuit. Inspect door lock mechanism. Using test program, check input signals S1 and S2. ERROR 23 Wash Data Version Error The wash data is not corresponding with the type of display. Reprogram was data. ERROR 24 Wrong Display Type Error Wrong display type programmed. Check display type. ERROR 25 Wash Data Backup Error Wash data will not backup. Check wiring. Check for sufficient space to save backup data. Washer-Extractor (Belgium made) Display Description Cause/Corrective Action ERROR 26 New ID Chip Error Error when inserting new ID Chip. Verify correct chip is received for machine type. ERROR 27 Invalid File Size Error Incorrect file size. Check correct file size is programmed. ERROR 28 RTC Read Error Error when reading RTC. Verify correct RTC is in machine. Check wiring. ERROR 29 RTC Write Error Error by a writing action to the RTC. Program correct action to the RTC. Check wiring. ERROR 30 EProm Read Error Error when reading EProm. Verify correct EProm is in machine. Check wiring. ERROR 31 EProm Write Error Error by a writing action to the EProm. Program correct action to the EProm. Check wiring. ERROR 32 Water Level Too Low The water level was too low during the heating cycle. Check inlet water supply, inlet water valves, drain valve and water level switch. ERROR 33 Software Version Error When the main board or display board is replaced, the cards have different software versions. ERROR 34 MCU Failure Error The processor isn't functioning properly ERROR 50 Level Stop Error The programmed water level is not reached in a certain time. Check inlet water supply, inlet water valves, drain valve and water level switch. Using test program, test water inlet valves, water level sensor and drain valves. ERROR 51 Heat Stop Error The programmed temperature is not reached in a certain time. Check auxillary heating system, temperature sensor and water safety level switch. Using test program, test heating resistances and water level switch. ERROR 52 Drain Error Water level is not lowered within 2m after 2 minutes upon completion of a wash cycle (Machines with a drain valve, water level must be "0" after 8 minutes upon completion of a wash cycle and machines with a pump drain, water level must be "0" after 4 minutes). Inspect drain valve and drain valve and drain outlet.Using test program, test function of drain valve. ERROR 53 Heating Error The programmed temperature is not reached after 20 minutes. Check auxillary heating system, drain valve and water level switch. Using test program, test heating resistances and water level switch. ERROR 54 Fill Error The programmed water level is not reached after 6 minutes. Check inlet water supply, inlet water valves, drain valve and water level switch. Using test program, test water inlet valves, water level sensor and drain valve Washer-Extractor (Belgium made) Display Description Cause/Corrective Action ERROR 55 Rotation Sensor Error The rotation signal is missing for 30 seconds. Check rotation sensor. ERROR 56 Spin Retry Error Programmed number of imbalances is reached. Check load size and type. Check for an unbalanced load. ERROR 57 Extraction Error Error occurred during extraction. Check load size and type. Check for an unbalanced load. ERROR 58 Dry Error ERROR 59 Door Open While Washing Error The door is opened or unlocked during the operation of the machine. Check door lock circuit. Inspect door lock mechanism. Using test program, test function of door lock. F1 Control Error There is an invalid control configuration, wrong configuration file or corrupted PS40 firmware. Load a new configuration file. Replace PS40 E Prom. F5 Door Error The door open switch was tripped during the wash cycle. Check door lock circuit and inspect door lock mechanism. F6 Door Error The door lock switch was tripped during the wash cycle. Check door lock circuit and inspect door lock mechanism. FA Out of Balance Error Out of balance switch was activated at start of cycle. Check load size and type. Check for an unbalanced load. FH Hardware Error There is a hardware problem or fault on printed circuit board. Replace print board. Mot 2 The rotation sensor's wiring or the rotation sensor is damaged. Inspect the rotation sensor's wiring. Replace the rotation sensor as needed. Washer-Extractor (Czech made) Washer-Extractor (Czech made) Display Description Cause/Corrective Action E1 Drain failure cooldown Error occurs when the electronic timer detects water is not drained after 3 minutes in a cooldown sequence. Check drain tube and repair if necessary. Check wiring to valve and repair. Check drain valve and replace if necessary. E2 Drain failure Occurs when electronic timer detects water is not drained after 3 minutes in a drain or spin sequence. Check drain tube and repair if necessary. Check wiring to valve and repair. Check drain valve and replace if necessary. E3 Out of balance before spin Error will occur before spin sequence is started and machine will not spin. Make sure out of balance switch is correctly mounted. Check wiring to switch and make sure there are no loose connections or repair wiring if no continuity. Check if out of balance switch is broken and replace. E4 Out of balance normal spin Error will occur when machine is badly loaded. Machine will try up to 10 times to redistribute laundry in drum before error occurs. Make sure out of balance switch is correctly mounted. Check wiring to switch and make sure there are no loose connections or repair wiring if no continuity. Check if out of balance switch is broken and replace. E5 Out of balance high spin Occurs when out of balance sensor is activated during high spin. Check position of out of balance switch and make sure is correctly mounted. Check springs and other mechanical parts that fix the drum and replace as necessary. Check wiring to switch and repair. Make sure machine is installed correctly and stable. E6 Door switch failure If during the wash cycle the washer computer detects the door switch is not closed, the machine will immediately stop all functions and the door will stay locked. Check the door switch and replace if it is broken or malfunctions. Check the continuity of the wiring and repair if necessary. Check the door switch at the inputs menu and if not functional, replace wash computer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E7 Door lock solenoid switch failure If during the wash cycle the washer computer detects the door lock solenoid switch is not closed, the machine will immediately stop all functions and the door will stay locked. Check the door lock solenoid switch and replace if it is broken or malfunctions. Check the door lock coil and if it's not functioning properly, replace it. Check the mechanical functionality of the door lock and if it's not functioning properly, replace the door lock system. Check the continuity of the wiring and repair if necessary. Check the door switch at the inputs menu and if not functional, replace wash computer. E8 Door lock check at start failure This error will occur each time the door lock sequence cannot be finished once started. Make sure door handle is centered against door lock and replace handle if damaged. Make sure input connector DL is connected. Repair ore replace door lock solenoid switch and door lock coils if not working properly. Replace door lock system if not functioning mechanically. Make sure there is continuity in the wiring. Check the output relay that powers the door lock coil and replace computer if relay is broken. Make sure door lock solenoid switch is functioning properly at the inputs menu; if not, replace computer. If the door switch is broken or does not function correctly, replace door switch. E9 Door lock solenoid switch closed failure at cycle end If within 30 seconds of the end of the cycle the door lock solenoid switch does not open, this error will occur. Check the door lock solenoid switch and repair or replace. Make sure door lock coil is functioning properly and replace if necessary. Make sure mechanical functionality of door lock is good and replace door lock system if there is a problem. Make sure there is continuity of the wiring. If out put relay that power door lock coils is broken, replace the wash computer. E10 Bimetal/Spring The bimetal/spring is checked each cycle to make sure door cannot be opened immediately when power is switched off. Error will occur if bimetal/spring is defective. Check bimetal/spring and replace if defective. Make sure mechanical functionality of door lock is good and replace door lock system if there is a problem. Make sure there is continuity of the wiring. Check door unlock coil and make sure it's working properly. If out put relay that power door lock coils is broken, replace the wash computer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E11 Fill failure This error occurs when the water level has not reached its target level in the maximum fill time. If water flow is very slow, increase the value for the max fill time. Check that the external water valves are open and free of dirt. Make sure the coil of the water inlet valve is working properly. Replace drain valve if defective. Make sure rubber hose is mounted properly. Make sure air hose on electronic sensor is air tight and doesn't contain any water. Check continuity of wiring and repair as necessary. Check output relay that powers inlet valves and drain valve and replace wash computer if relays not working properly. E12 Overfill failure This error occurs if the water level exceeds the maximum water level. Make sure water inlet valves are not broken and clean or replace as needed. Make sure water pressure is not too high. Check output relay that powers inlet valve and replace wash computer if relay is not working properly. E13 Heating failure This error occurs if the temperature is not raised 3°C (37°F) in 10 minutes. Make sure the heating contactor is activated and repair the wiring or replace the contactor. Check the heating elements and if they are not heating, repair the wiring or replace thee heater elements. Make sure the temperature sensor is functioning and replace as necessary. Check output relay that powers the heating contactor and replace wash computer if relay is not working properly. E14 Heating time failure Error will occur after the programmed maximum heating time has passed and the target temperature is not reached. If the machine has a small hating capacity, increase the value of the max heating time. Check if the heating resistors are heating and repair the wiring or replace the defective heater elements. Make sure water temperature is not too low. Make sure the temperature sensor is functioning and replace if defective. E15 Too hot Error will occur if water temperature is 15°C (59°F) above target temperature. Check if the correct water inlet valves have been programmed. Choose the correct water inlet valves for the wash sequence or adjust the parameters of the wash program. Make sure water inlet valves are functioning properly. Make sure supplied water temperature is not too hot. Make sure temperature sensor is functioning and replace if faulty. Replace heating contactor if it stays closed. Check the output relay that power the heating contactor. If the relay stays closed and the relay is broken, replace the power board. If the relay is not broken but receives a not allowed signal from the wash computer, replace wash computer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E16 Coin blocking 1 When the input for coin drop 1 is blocked for more than 5 seconds this error will occur. Make sure coin drop is functioning and replace if necessary. Check wiring and repair if there is no continuity. E17 Coin blocking 2 When the input for coin drop 2 is blocked for more than 5 seconds this error will occur. Make sure coin drop is functioning and replace if necessary. Check wiring and repair if there is no continuity. E18 TH overcurrent security When the motor overcurrent security has tripped, the motors are switched off. Check if the overcurrent security is open. If the overcurrent security is open, within 15 minutes it will close automatically (if motor is defective the security will open again when you restart the machine). If overcurrent security is not closed after 15 minutes, it is defective and should be replaced. If overcurrent security is not open, check if both motor securities are open. If both motor securities are open, there is a motor problem. Make sure there is continuity in the wiring and repair as needed. E19 M1 wash + low spin motor security When the motor overcurrent security has tripped, the motors are switched off. Check if thermal security of the wash and low spin motor is open. If thermal security is open, it should close within 15 minutes. If motor is defective, security will open when machine is restarted. Check if temperature in cabinet is too hot and adjust program as necessary. If thermal motor security does not close after 15 minutes it is defective. Make sure there is continuity in the wiring and repair as needed. E20 M2 distribution + high spin motor security When the motor overcurrent security has tripped, the motors are switched off. Check if thermal security of the wash and low spin motor is open. If thermal security is open, it should close within 15 minutes. If motor is defective, security will open when machine is restarted. Check if temperature in cabinet is too hot and adjust program as necessary. Make sure there is continuity in the wiring and repair as needed. E21 Overflow failure This error occurs when the water level raises above the hole of the overflow tube. Make sure overflow hole and tube are not blocked. Make sure drain tube is not blocked. Make sure water inlet valves are working properly. Make sure output relay that powers the water inlet valve is working properly. If relay stays closed and is broken, replace wash computer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E22 Flush failure When the flush valve is active and the machine is losing 7 cm (2.75 in.) of water, the drain will be opened. Check drain valve and replace if it's losing water. If machine is losing water, replace defective parts. E24 Defective level sensor Error occurs during wash cycle. Check level sensor visually and replace wash computer if you see damage. E25 Defective temperature sensor Error occurs during wash cycle. Make sure temperature sensor is connected on the PCB board. Check temperature sensor and replace if damaged. Make sure the resistance is correct on the sensor and replace as needed. Make sure earth wire is at the middle of the connector. Check PCB board and replace if damaged. E26 Undefined frequency inverter error code This error occurs if inverter gives an error message that is not recognized by the wash computer. Updating the software might help discover which error code occurred. Contact manufacturer if problem persists. E27 Communication fault inverter Error occurs when there is no communication between wash computer and inverter. If the inverter or washer computer is new, make sure the right machine type and washing machine power supply have been selected. Make sure door is closed and locked. Make sure inverter is energized. If power is not getting to the inverter, repair power supply. If supply voltage is OK, replace inverter. Make sure fuses are operational. Make sure safety inverter contactor is working properly. Make sure connectors on both sides of communication cable are still connected. Make sure wiring is OK. If output relay is broken, replace wash computer E28 THT (Mitsubishi) / E. OL (KEB) Timeout Error occurs when the wash computer cannot handle the fault of the inverter. Make sure correct machine type is selected. Make sure the correcter inverter parameters are loaded into the wash computer. Make sure power supply is sufficient and stable during extraction load. Check that drum rotates normally by hand and repair or clean as necessary. If fault is persistent, contact manufacturer. E29 OV3 (Mitsubishi) / E. OP (KEB) Timeout Error occurs when the wash computer cannot handle the fault of the inverter. Make sure correct machine type is selected. Make sure the correcter inverter parameters are loaded into the wash computer. Check if there was unbalance during extraction - always put a full load in the machine. If fault is persistent, contact manufacturer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E30 Alarm frequency inverter Error occurs when frequency inverter goes into alarm. Make sure correct machine type is selected. If fault is persistent, contact manufacturer. E31 Initialization fault inverter Error occurs when there is a problem while wash computer writes the dedicated inverter parameters into the inverter EPROM memory. Error means not all dedicated inverter parameters have been loaded and as a result the inverter will not work correctly. Make sure door is closed and locked. Make sure inverter is energized. Try to write parameters to the inverter again. If fault is persistent, contact manufacturer. E32 Verification fault inverter Error occurs if wrong parameter is detected at the verification of the inverter parameters. Make sure correct machine type is selected, door is closed and locked and that inverter is energized. Write parameters to inverter again. If fault is persistent, contact manufacturer. E33 Stall prevention function This error indicates that the stall prevention of the frequency inverter is sometimes functioning. Make sure drum is not overloaded. Check to see if the correct machine type is selected. Make sure dedicated inverter parameters have been loaded by the wash computer. Make sure there are no mechanical parts broken and replace as necessary. E34 All programs blocked If all programs are blocked, a program cannot be started and this error occurs. Check if all the program's are blocked in the n- submenu. Select program = on in the n-submenu. E35 Wrong software version When a new software that isn't backward compatible with previous software versions is loaded, the software will detect that the old and new software is not compatible. The wash computer must be reconfigured. E36 Unbalance detection system activated Error occurs when the linen is incorrectly distributed in the machine during the distribution stage, before going into high spin. The machine will attempt to redistribute the weight. If still unbalanced, machine will lower the revolutions of the spinning sequence. Always be sure to fill the machine with a full load. E37 Drain failure at the spray sequence Error occurs when electronic timer detects that the water is not drained after 3 minutes at the spray sequence. Check drain tube and make sure it is not blocked. Make sure drain valve is working properly. Check wiring (when drain valve is switched off, drain valve should be open) and repair as needed. E38 Tank with recycle water is empty Error occurs when electronic timer detects water recycle tank is empty. Machine will switch over to soft cold water. Check water level in water recycle tank and add water as needed. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E39 Soap supplies are running out of soap Occurs when electronic timer detects soap reservoir is empty. Check liquid soap supply and add soap as needed. E40 Fill failure due to an empty water recycle tank Error occurs when the electronic timer gets a signal that the water recycling tank is empty. At the same time, the water level will not raise anymore and an error will be generated if the programmed water level is not reached in the max fill time. Check water level in recycle tank and add water as needed. If water flow is slow, increase value of max fill time. Make sure external water valves are open. Make sure water inlet valves are not blocked by dirt. If coil on water inlet valve is open, replace the coil or the whole inlet valve. Make sure drain valve is working properly. Make sure rubber hose for measuring water level is mounted well on the water level sensor and on the drain valve. Make sure air tube on electronic sensor is air tight and does not contain water. Check continuity of wiring and repair as needed. Check output relay that powers inlet valves and drain valves. E41 Service due warning This error occurs when the cycle counter of the electronic timer has reached the programmed value for service due. Error message will be erased by opening the door. If cycle counter has not been reset the message will appear again at the end of the next wash cycle. Reset cycle counter in the service menu. E42 No network connection Error appears when no network connection is available. Check the network cable and replace if broken. Check the RS232- RS485 converter. If converter is out of order, replace it. E43 Wrong voltage range selection Error occurs when the wrong voltage range has been selected in the configuration menu. Depending on the machine type and inverter type, certain voltage ranges are not allowed. Check machine identification plate at the back of the machine. Select the same voltage range in the configuration menu as on the identification plate of your machine. E44 Wrong inverter model type Error occurs when wrong inverter model type has been detected by wash computer software. Make sure correct machine type is selected in configuration menu. Check machine identification plate and select the same voltage range in the configuration menu as on the identification plate. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E45 No speed pulses when drum turns Occurs when speed sensor is not sending pulses to wash computer while drum turns. Check if head of speed sensor is mounted at a correct distance from reference points on drum pulley. Check wiring and repair any that is damaged. Make sure speed sensor is functioning properly and replace if damaged. If input of wash computer is not functional, replace wash computer board. E46 Brake stays closed Error occurs when mechanical brake stays closed. Check main air pressure and correct as necessary. Check air pressure valves that control the brake and repair or replace. Check the brake control signal wiring that commands the brake air pressure valve and repair if faulty. Check output relay that powers the control signal for brake air pressure valve and replace wash computer if anything is faulty. E47 Friction blocks on brake are worn out Error occurs when friction block of the brake are worn out. Check if friction blocks are almost worn out and replace. Check if the wiring of the input signal brake wear out is damaged and pair if it is. If the inputs on the wash computer board are not functional, replace wash computer. E48 Brake stays open Error occurs when brake stays open. Check main air pressure and correct as necessary. Check air pressure valves that control the brake and repair or replace. Check the brake control signal wiring that commands the brake air pressure valve and repair if faulty. Check output relay that powers the control signal for brake air pressure valve and replace wash computer if anything is faulty. E49 Air suspension without compressed air Error occurs at the wash action when the air suspension, due to some problem, is without compressed air. Check if the machine is supplied with compressed air and supply if necessary. Make sure air pressure valves are functional; repair or replace. Check if air suspension is damaged and replace. Make sure out of balance switch is mounted correctly. Check wiring and make sure contact on the out of balance switch is normally closed and connector pins are tight. If input of wash computer is not functional, replace wash computer. E50 E51 No second acceleration ramp No third acceleration ramp This error occurs when the washing machine is not accelerating to he programmed extraction speed with the standard spin ramp but with the wash speed ramp. Check if the wire bridges at the terminals of the inverter are present and are making electrical contact. Make sure the correct inverter parameters are loaded. If problem persists, replace inverter. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E52 PCB-EPROM CRC failure At power-up, wash computer checks if factory settings in EPROM are OK. Error occurs when there is a wrong CRC reading of the data from the EPROM. The wash computer needs to be reset by manufacturer. E53 PCB-EPROM data out of range At power-up, wash computer checks if factory settings in EPROM are OK. Error occurs by reading out of range data from the EPROM. The wash computer needs to be reset by manufacturer. E57 Lock system Error occurs when door lock switch stays locked when outer door has been unlocked pneumatically and opened by hand. Make sure the door lock witch if functioning properly and replace if it is not fully functional. Make sure door lock is mechanically functioning properly. Check continuity of wiring and repair as needed. Check functionality of pneumatic lock system and repair or replace anything defective. Check input signal from door lock switch and if input does not correspond with the state of the signal of the switch, replace wash computer. E58 No free run Error occurs when machine is decelerating at the end of the wash cycle with closed brake. This failure is just for diagnostic purposes. If problem is repetitive, inform manufacturer. E59 Run free run Occurs when brake is closed while run status inverter is still 1. This failure is just for diagnostic purposes. If problem is repetitive, inform manufacturer. E60 No detection motor speed signal at wash Error occurs when there is no feedback speed signal from the motor drive at the wash sequence. The wash computer will try three times to reset the drive motor. After three times, this error becomes active. Check the communication cable, motor drive, motor and power cable. Repair or replace if any are defective. Check output relay that powers the motor drive and replace wash computer if relay is broken. Check contactor power supply motor drive and replace contactor if it is broken. E61 Motor doesn't stop spinning Error occurs when there is a feedback speed signal from the motor drive when the motor is not turning and the motor drive is not expected to return a speed signal. Will try to reset one time. Check the wire bridge on the mobile connector motor drive and close the motor bridge if it is open. Check communication cable and motor drive. Repair or replace if either are defective. E62 Motor spins too fast Error occurs when speed exceeds more than 50 RPM above target speed. Will try to reset one time. Check the communication cable, motor drive, motor and belt. Repair or replace if any are defective. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E63-E67 Reset Motor Drive for E60, E61 and E62 After error 60 tries one time to reset, failure 63 appears. After error 60 tries to reset the second time, failure 64 appears. After error 60 tries to reset the third and final time, failure 65 appears. Error 61 will try to reset one time and if it fails, error 66 will appear. Error 62 will try to reset one time and if it fails, error 67 will appear. E68 No detection motor speed signal at spin Error occurs when there is no feedback speed signal from motor drive at spin sequence. Check the communication cable, motor drive, motor and power cable. Repair or replace if any are defective. Check output relay that powers the motor drive and replace wash computer if relay is broken. Check contactor power supply motor drive and replace contactor if it is broken. E69 Unbalance input should not be high on R machines Occurs when input for unbalance detection for F machines is high. Make sure correct machine type is selected. Make sure wiring is correct. Check F machine input unbalance detection. There must not be a wire bridge at the input unbalance detection. If input is broken, replace wash computer. E70 RS7 selected in case of RS10 Error occurs when wrong machine type is selected. Make sure correct machine type is selected. E71 RS10 selected in case of RS7 Error occurs when wrong machine type is selected. Make sure correct machine type is selected. Make sure wire bridge on mobile connector F pins 1 and 3 is available. E72 No wire bridge terminals 16-20 Occurs when wire bridge at KEB terminals 16-20 is missing. Make sure there is a wire bridge at terminals 16-20. If fault is persistent, contact manufacturer. E73 No KEB parameters loaded in inverter Occurs when the dedicated parameters have not been loaded in the KEB inverter. Make sure correct inverter parameters have been loaded in wash computer. If fault is persistent, contact manufacturer. E74 Inverter not switched off at end of cycle Occurs when inverter contactor does not open at end of wash cycle. Check if contacts on contactor stay closed after cycle has finished and replace if they open. Check output relay that powers inverter contactor and replace wash computer if relay is broken. E75 Undefined frequency inverter error code Error occurs if inverter gives an error message which is not recognized by wash computer. Updating wash computer software might help discover what inverter error code really occurred. Inform manufacturer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E78 At standby door lock is locked while door is open Error occurs when at standby mode (machine is on but no wash cycle is running) the door lock switch is in locked state while the door is open. Close door slowly with limited force. If error message disappears, machine goes into standby mode and can be further used. If error does not disappear, repair or replace door lock. E79 After pressing start, door lock is locked while door is open Occurs when during door locking sequence the door lock switch is in locked state and door (door switch) is open. Make sure door lock system is functioning properly and repair or replace if defective. E80 Timeout input 16/Soap Timeout Error occurs when on hold signal of liquid supply central dispensing system stays high for more than 1 hour. Make sure central soap dispensing system operates correctly and repair if faulty. Make sure wiring of on hold input signal is not damaged and repair as necessary. Check inputs on wash computer and if faulty, replace wash computer. E81 Heating failure Error occurs when heating is not restarted at wash sequence when water temperature of bath is below its normal programmed value. Refer to errors 13 and 14. E82 Refill failure Occurs when water filling is not restarted at wash sequence when water level of bath is below its normal programmed value. Refer to error 11. E83 No successful wash cycle termination Occurs when wash cycle cannot be validated for hygienic reasons as the wash process has not followed standards of the wash program. Refer to extra error message that shows the cause of the failure. E84 Communication failure with PC Error occurs when the function to store all wash process data for a hygienic wash cycle on a PC has failed. Refer to Programming Manual for more information. E85 Real time clock, no battery or battery low power Error occurs when there is no battery available at the real time clock or if the power of the battery is too small to make the real time clock run correctly. Make sure there is a battery in place and that it has power. E86 Real time clock is not available Error occurs when real time clock is not connected to wash computer. If real time clock is available, connect it. Make sure it is functional. Make sure wash computer is functional and replace if it is faulty E95 Watch dog If the watch dog has been activated, error 95 is logged in the error log register. Consult technician if error occurs frequently. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E100 Communication fault weighing system Error occurs when communication between wash computer and signal conditioner weighing system is interrupted. Make sure there is 24VDC power supplied to the signal conditioner weighing system. Make sure connectors on communication cable are connected to wash computer and signal conditioner. Make sure connectors at RS232-TTL converter are connected. Make sure wiring has continuity. E101 Weigh low Error occurs when measured weight is much smaller than in normal operation. Check load cell wiring and repair if faulty. Check values for each individual load cell and adjust the mounting of the load cell as needed. Check if the signal conditioner module is still operational and replace if defective. E102 Weigh high Error occurs when measured weight is much higher than in normal operation. Check load cell wiring and repair if faulty. Check values for each individual load cell and adjust the mounting of the load cell as needed. Check if the signal conditioner module is still operational and replace if defective. E103 Weigh balance Occurs when measured weight is not equally divided over the 4 load cells. Check load cell wiring and repair if faulty. Check values for each individual load cell and adjust the mounting of the load cell so there is equal distribution. Check if the signal conditioner module is still operational and replace if defective. E104 Weight on individual load cell exceeds max Error occurs when during wash cycle the load on one load cell is over 1000 kg (2205 lbs). Check for mechanical problems and repair as needed. Check load cell wiring and repair if faulty. Check values for each individual load cell and adjust the mounting of the load cell as needed. Check if the signal conditioner module is still operational and replace if defective. E105 No functional air pressure system Occurs when the air stays in the air bags at the door unlock sequence while in normal operation and they should be empty. Check for mechanical problems and repair as needed. Check air pressure system and repair as needed. Check the wiring to the air absorber pressure switch. E106 Calibration error Error occurs when the calibration result does not correspond to the preset intervals. Make sure correct machine type is selected. Make sure the machine is empty during the calibration process. Do not carry out calibration immediately after a wash cycle has finished. Wait at least 2 hours after the end of the last wash cycle. Washer-Extractor (Czech made) Display Description Cause/Corrective Action E107 Not calibrated Error occurs when the machine is not calibrated. Wait up to 2 hours after a cycle has ended to calibrate. Make sure drum is completely empty. Calibration process can take up to 10 minutes. If machine is not calibrated, weighing function is disabled. E300-E353 Mitsubishi inverter alarm Always make sure the correct inverter parameter settings are in the inverter. Go to configuration menu and select inverter menu, set correct machine type and supply voltage and load parameters from wash computer to inverter again. Refer to Programming Manual if you continue to get errors. E400-E441 KEB inverter alarm Always make sure the correct inverter parameter settings are in the inverter. Go to configuration menu and select inverter menu, set correct machine type and supply voltage and load parameters from wash computer to inverter again. Refer to Programming Manual if you continue to get errors. E500-E525 Memory error If memory errors occur, there is a problem with the EPROM. Try to reload the washing program. Check for source of electrical “noise”. E550 Wrong DAQ memory version Error occurs when after installing new wash computer software the DAQ memory structure is not compatible anymore. There are two ways to reset the DAQ memory: automatically by loading the wash computer default settings at the configuration menu or by the trace-tech PC software for which the DAQ memory is of importance. E551 Problem writing DAQ memory Occurs when wash computer fails to write data in the DAQ traceability memory segment. Reset DAQ traceability memory segment. If problem persists, replace wash computer E552 DAQ traceability memory is full Occurs when wash computer DAQ memory is completely filled with traceability data. Data should be removed by traceability PC software. E553 DAQ traceability memory is almost full Error occurs when 85% of DAQ traceability memory segment contains wash cycle data. Data should be unloaded by the traceability PC software before the memory is completely filled up. E560-E563 USB errors These errors occur if the USB is not found, if a file is not found during an attempt to read from a USB, if an export failed when attempting to write onto a USB or if an import failed when attempting to read from a USB. E600-E628 Software error If a software error occurs, contact manufacturer. Washer-Extractor (Czech made) Display Description Cause/Corrective Action 36 Defective motor contactor Error occurs when the overcurrent thermal protection on both motor thermal protections are opened during spin sequence. Check if spin contactor is broken and replace if defective. Check if output relay for spin motor stays closed. If relay is broken, replace board. If relay is not broken but receives a not allowed signal from board, replace board. Make sure wiring does not have a short circuit and repair if necessary. 37 Door unlock fault This error occurs when the door is not unlocked by pressing the door unlock button on the keypad. Make sure connector K on the keypad is connected on the timer. Check LED of door unlock button. If LED is on, the microswitch which controls locking of door lock is closed. The door unlock coil is not functional or door lock mechanism is broken. If LED is off, check if connector S of keypad is connected on timer. The micro contact door lock is open but the mechanical door lock mechanism is blocked, check door lock mechanism. Check relay for unlocking the door on the electronic board and replace if faulty. Replace board if faulty. Make sure there is no short circuit in wiring. 38 No feedback speed signal Error occurs when the tacho is not sending a feedback signal to the SR-drive. Check communication cable, SR-drive, motor and power cord and repair or replace if broken. Check output relay that powers SR-motor drive and if relay is broken or does not receive a signal, replace board. 39 Defective SR-drive Error occurs when tacho is sending a feedback signal to SR-drive when tacho is not expected to do so. Check communication cable, SR-drive, motor and belt and repair or replace if broken. 40-49 Memory errors If memory errors occur, there is a problem with the EPROM. Try to reload the washing program. If fault is persistent, contact manufacturer. 50 No network connection Occurs when there is no network connection available anymore. Check network cable and replace if faulty. Check RS232-RS485 converter and replace if faulty. 51 Heating failure 2 Error occurs if the heating system is functioning partially but not sufficiently to heat the machine correctly. Check the heating resistors and make sure they are heating. Repair wiring or replace defective resistors. Check water temperature and if hot water is too low, increase temperature of hot water. Make sure temperature sensor is functioning properly. 54 Lock active Error occurs when at standby the door lock is locked with door open. Make sure door lock system is functioning correctly and repair anything faulty. Washer-Extractor (Czech made) Display Description Cause/Corrective Action 55 Lock start Error occurs when at startup door lock is locked locked with door open. Make sure door lock system is functioning correctly and repair anything faulty. 60 No reset drive - 61 Extended speed - 62 Continue spin - 68 No signal spin Error will occur when there is no feedback signal from motor drive at spin sequence. Check communication cable, SR-drive, motor and power cable. Repair or replace anything faulty. 70-88 Software errors If a software error occurs, contact manufacturer. 90 Watch dog If the watch dog has been activated, error 90 is logged in the error log register. Consult technician if error occurs frequently. 99 Safety error When this error occurs, this is a main error message to prevent the door from opening. Check for errors 2, 6, 7 and 25. 100-140 Mitsubishi inverter errors Always make sure the correct inverter parameter settings are in the inverter. Refer to Programming Manual if you continue to get errors. Ironer Ironer Display Description Cause/Corrective Action 001 Temperature of ironing roller is higher than 200°C (392°F) Wait until machine cools down or cool it down by ironing wet linen. Check the connection of the temperature sensor. If faulty, replace temperature sensor. 002 Temperature of ironing roller is higher than 80°C (176°F) and roller does not rotate If roller stops due to any cause (pressing button for reverse operation, pushing crank for manual rotation, pressing the safety bar, drive failure), after 5 seconds the alarm sounds to warn of burning ironing belts. Switch machine off and on again. if the machine will not start, cool it down by wet linen and rotating handle. After cooling machine down below 80°C (176°C), repair the drive. 003 Overloading of motor(s) of ventilator(s) Check and clean exhaust pipeline. If motors still overloading, check ventilators. 004 Short circuit of temperature sensor Cool machine and replace sensor. 005 Disconnection of temperature sensor Cool machine and replace sensor. 006 Failure of drive Switch machine off and on again or let inverter cool down. If it doesn't help, look for error according to individual instruction for inverter. 007 Under pressure switches are off (gas heating only) One or two under pressure sensors detect correct function of combustion gases exhaust. if combustion gases exhaust is weak and there is danger of spreading combustion gases to the space around ironer, under pressure switches will open and by this the gas valve gets closed and the burner will turn off. Check and clean whole route of combustion gases exhaust. Check motor of ventilator and electrical installation. 008 Failure of burner ignition (gas heating only) If flame ignition is not successful, the system will bring cause this error. Open the valve installed on the gas pipeline to ironer. Check the gas valve and make sure it is working properly. Remove sieve of mixer and check whether the jet is not clogged and whether the sleeve above jet is in correct height. Check whether ignition electrode is covered with flame when burner is burning. Check whether ignition electrode glows. 009 Crank for manual rotation of ironing cylinder is pushed Release crank and start machine with start button or start revers operation. Check the microswitch on the crank. 010 Lifting up the trough (only machines with ironer with front/ rear delivery) Close the trough and check the microswitch. Ironer Display Description Cause/Corrective Action 011 Failure of under pressure switches Make sure under pressure switches are wired correctly. Be sure the switch is functioning. Replace if faulty. 012 Wrong function of safety bar In case of jammed bar or switch, release it. Check the switch for correct operation. Make sure the switch connection is not faulty. Make sure the correct version of software and programming is being used. 013 Defective speed sensor (IF machines only) Make sure sensor is not damaged. Adjust distance between sensor and rotating screen with teeth so that the light indicator on sensor is blinking when screen rotates. If indicator is constantly on, increase the distance. If it is constantly off, reduce the distance. If adjustment of diameter does not help, it is necessary to change the sensor. 1 Safety thermostat error (temperature exceeds 210°C [410°F]) Replace thermostat. 2 Exceeding the cylinder temperature over 200°C (392°F) The error will be accompanied by a symbol to indicated which sensor is causing the error. Replace sensor. 3 Exceeding the cylinder temperature over 80°C (176°F) when machine is stopped The error will be accompanied by a symbol to indicated which sensor is causing the error. Replace sensor. 4 Fan motors overloaded Indicates the fan motor is overheating/overloaded. Error can be canceled by the STOP key after the fan motor has cooled down. 5 Temperature sensor short- circuited The error will be accompanied by a symbol to indicated which sensor is causing the error. Check wiring to sensor and replace sensor as needed. 6 Temperature sensor disconnected The error will be accompanied by a symbol to indicated which sensor is causing the error. Check wiring to sensor and replace sensor as needed. 7 Drive (frequency inverter) error This error indicates when a frequency inverter fault is detected or a fault of function or configuration parameter related to the frequency inverter. Refer to Programming Manual for list of error codes related to this drive error. 8 Faulty function of under pressure sensors/value of the exhaust system resistance exceeds the limit value This error is displayed when an incorrect function of the airflow sensors and switches is detected. Refer to Programming Manual for list of error codes that indicate airflow sensor and switch failures. 9 Error of the burner ignition unit (gas heating only) or fault of the electric heating contactors (electric heating only) For gas heating only, cancel the error by pressing STOP key and the automatic sequence of ignition unit reset is started and new ignition is initiated. Refer to Programming Manual for list of electric heating contactor errors. Ironer Display Description Cause/Corrective Action 10 Faulty function of the finger protection safety bar at the machine start up Repair finger protection safety bar. Turn machine off and on again after repair has been made. 11 Faulty function of the speed sensor Check wiring and replace sensor as needed. 12 Number of steam heating cycles is reaching the limit value or the value has already been exceeded When this error occurs, a technical inspection of the machine must be made. After the inspection, the number of cycles should be reset to zero. 13 Memory error A range of codes from 500-533 will be shown. If 504 is indicated, load default program by the LStPrg command from the configuration menu. If a different code is shown, reset default values using ResDef command from configuration menu. If error appears repeatedly, contact the manufacturer. 14 Flash memory error A range of codes from 550-553 will be shown. Reset default values using ResDef command from configuration menu. If error appears repeatedly, contact the manufacturer. 15 Software error A range of codes from 600-636 will be shown. If this error appears, contact the manufacturer. 20 Motors of the vacuum table fans overloaded Indicates the insert table fan motor is overheating/overloaded. Cancel the error by pressing the STOP button and allow motor to cool. 21 Automatic feeder error Indicates feeder motor is overheating/overloaded. Cancel the error by pressing the STOP button and allow motor to cool. 22 Crosswise folding device or stacking device error Refer to Programming Manual for list of error codes and how they effect the machine. 35 Incorrect software version This error occurs after a machine software update or when the machine is started for the first time or also after the control board has been replaced. Press STOP button and the screen for entering the configuration menus password is automatically displayed. Reset the default values by the ResDef command.

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