| BOHNSON | Troubleshooting Guide: Master Error Code List | |
|---|--|--|
| Document Number: NB-1903010 | Date Prepared: 3/15/16 | Models Affected: • Matrix: All Vision: PS0.02, PZ0/02, C20/02, C20/02, U20, 02, U20/02, T200/F, CUP, C20F |
| Prepared by: Regina Templeton & Brian Nelson | _ | Vision: R60-03, R70/-02, S60/-03, S70/-02/-03, U60-03, U70/-02, T600/E, SUR-600E Massage Chair: Basic Fit J6950 (05XX codes only) |

DESCRIPTION

The following tables include all possible console error codes. Troubleshooting is provided where known. If you have verified troubleshooting steps to add, please email <u>contentmanagement@johnsonfit.com</u>.

A NOTE ON CLASS A AND B ERROR CODES

Some errors can be bypassed in Engineering Mode in order to keep the machine in use.

- "Ignore B Level Errors" will bypass class A and B error codes.
- "Ignore Incline Errors" will bypass all incline errors.

ERROR CODE TROUBLESHOOTING TABLE

The two troubleshooting columns provide troubleshooting steps and suggested parts replacement. In some cases, Level 1 and Level 2 troubleshooting is the same; where applicable, Level 2 provides additional, advanced troubleshooting that can be done with a technician in the field.

If directed to replace UCB but unable to, discuss with Team Lead. Console replacement may be justified.

Speed Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 | |
|-------|--|-------|--|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) | |
| 0040 | No speed response of roller | В | a. Replace speed sensor | | |
| 0041 | After setting speed on console, speed cannot | В | a. Run Auto Calibration | | |
| | reach the target in 60 seconds (Speed too low) | | b. Replace speed sensor | | |
| 0042 | After setting speed on console, speed cannot | В | a. Run Auto Calibration | | |
| | reach the target in 60 seconds (Speed too | | b. Replace speed sensor | | |
| | high) | | | | |
| | RPM read from RS232 does not match RPM | В | Go into ENG mode. Find RPM parameter on the display. | Press Enter, display should show the parameter | |
| 0043 | measured from the speed/RPM line – only | | value to get the unit to 1mph and the belt should start. | If the parameter value is 0, replace the UCB. If the | |
| | used for AC motors (DCI) | | belt doesn't start, replace the MCB with a Delta MCB. | | |
| | | В | Press and hold INCLINE DOWN and SPEED DOWN at the | same time for 3-5 seconds. The display should | |
| 0044 | Actual speed is higher than commanded speed | | now read Manager Mode. Press any UP arrow key to go to Engineering Mode and press ENTER. Press any | | |
| 0044 | by limit and is accelerating (DCI) | | UP or DOWN arrow key until RPM Parameter is showing on the display. Press the ENTER key, the display should now show the Parameter number to get the unit to 1.0 MPH / 1.6 KPH and the belt should start. If | | |
| | | | the belt does not start, replace the MCB. If the Parameter does not show a value, replace the UCB. | | |
| 0045 | Automation speed up and speed down mode | В | DCI system: | | |
| | fail | | a. Replace the speed sensor | | |
| | | | Delta system: | | |
| | | | a. Replace the Delta MCB | | |
| 00A0 | Failure to rectify speeds | С | DCI system: | | |
| | | | a. Replace the speed sensor | | |
| | | | Delta system: | | |
| | | | a. Replace the Delta MCB | | |
| 00A1 | No response of motor speed sensor (keep time | С | DCI system: | | |
| | for LCB default) | | a. Replace the speed sensor | | |
| | | | Delta system: | | |
| | | | a. Replace the Delta MCB | | |

Motor Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0140 | Incline motor failure (FTM501 – Delta board, TREADMILL) | В | a. Run Auto Calibration. b. Replace the incline motor | Check the connection of the incline motor cable at the MCB. Run auto-calibration. If okay, you are |
| | , | | | done. If error, replace incline motor. |
| | Incline motor failure (ASCENT) | | | |
| 0141 | Main motor over temperature | В | a. Check the connection of the motor cable at the | Check the connection of the motor cable at the |
| | | | MCB. | MCB. Using a multimeter set to ohms, place both |
| | | | b. Replace the MCB | terminals on the blue wires of the motor cable. |
| | | | | There should be a reading of 0. If there is a reading |
| | | | | above 0, replace the motor. If the reading is 0, |
| | | | | replace the MCB. |
| 01/12 | The notentiometer is reversed - Incline up | B | a Please run Auto Calibration | Run auto-calibration. If it fails, check to see if there |
| 0142 | moves down the incline motor down | | h. Replace the incline motor | is a number displayed for elevation minimum in |
| | (FTM501 – Delta board, TREADMILL) | | | engineering mode. Check MCB LEDs. If LED down |
| | | | | has no light check the connections Replace LICB or |
| | | | | cable as needed. If LED down is lit, replace the |
| | | | | incline motor. If new incline motor still fails. |
| | | | | replace MCB. |
| | | | | |
| 0143 | Driver disconnect | В | a. Check the connection of the motor cable at the MCB. | |
| | | | | |
| 0144 | Motor overloading | В | 1. Perform an initial friction test (see Deck Friction Tes | ting, NB-1808006). Record the results. |
| | | | 2. Check to ensure the belt is on a dedicated circuit. | |
| | | | 3. Check for proper belt tension. | |
| | | | 4. If belt needs to be tensioned, perform another fricti | on test. Record the results. Refer to Results section in |
| | | | If treadmill is on a dedicated circuit and belt | tension is correct, the friction test results should |
| | | | • In treatmin is on a dedicated circuit and belt tension is correct, the miction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. | |
| | | | 5. Replace MCB. | |
| 0145 | In the self-powered system, the incline stops | В | a. Enter the Engineer mode disable B Level Error, | Replace LCB. |
| | when LCB battery is too low and RPM is not | | bypass CLASS A and B error code | |
| | high enough (under 70 RPMs) | | Plug in the machine to charge battery for 24 hours. | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0146 | TREADMILL: Motor the current exception BIKE: The second incline motor operation fails | В | TM: 1. Perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. 2. Check to ensure the belt is on a dedicated circuit. 3. Check for proper belt tension. 4. If belt needs to be tensioned, perform another friction test. Record the results. Refer to Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. Bike: a. Please run Auto Calibration. b. Replace the incline motor. | |
| 0147 | Incline motor disconnected (FTM501 – Delta board, TREADMILL) | В | AT: a. Please check the incline motor wire connection between the incline and LCB. b. Replace the incline motor TM: a. Please check the incline motor wire connection between the incline and MCB. b.Replace the incline motor | Run auto calibration. Check incline motor connection at LCB. Check to see if incline value changes on display when up/down keys are pressed. If they don't change, replace incline motor. If they do change, replace LCB. |
| 0148 | Incline motor over current | В | Disconnect the incline motor tube from the frame. Turn on the power. - If the console still shows 0148, please replace incline motor. If auto calibration is finished, please follow the incline motor installation SOP to fix incline motor. | Run auto calibration. Disconnect the incline tube from the frame. Turn on power. If console still shows error, replace incline motor. If no error, reattach incline motor and replace LCB. |
| 0149 | Resistance is over 3.7 amps | В | Replace the power resistance | Check resistance amperage through generator cable. If resistance is under 10 ohms, replace generator. If over 10 ohms, replace LCB. |
| 014A | LCB charge current is abnormal | В | Replace LCB. | |
| 014B | The second incline motor is disconnected or no VR signal | В | a. Check the connection of the incline motor cable at the LCB.b. Replace the incline motor | |
| 014C | The second incline motor over current | В | Don't fix the incline motor tube. Turn on the power. - If the console still shows 014C, please replace incline motor. | |

4| Revision Date: 3/23/23 | Revised by: EM

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|--|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | If auto calibration is finished, please follow the incline motor installation SOP to fix incline motor. | |
| 014D | The operation fails and the current is none for the incline motor (ASCENT) | В | a. Please run Auto Calibration. b. Replace the incline motor | |
| | The operation fails and the current is none for the incline motor (VISION ELLIPTICALS) | | Replace the incline motor and LCB. | |
| 014E | The operation fails and the current is none for the second incline motor | В | a. Please run Auto Calibration. Replace the incline motor | |
| 01A0 | See Error 0147 | - | AT: a. Please check the incline motor wire connection between the incline and LCB. b. Replace the incline motor TM: <i>CTM501D only</i>—Cycle power. The message should clear. (This issue will reoccur each time the unit is auto calibrated.) <i>All other models</i>— a. Please check the incline motor wire connection between the incline and MCB. b. Replace the incline motor | See Error 0147 |
| 01A1 | Incline calibration error | С | a. Please run Auto Calibration. b. Replace the incline motor. | Run auto calibration. Disconnect the incline tube from the frame. Turn on power. If console still |
| 01A2 | See Error 0142 | - | a. Please run Auto Calibration. b. Replace the incline motor | See Error 0142 |
| 01A3 | Main motor disconnected. (FTM501 – Delta board, TREADMILL) | С | a. Intermittent 01A3 error, please disconnect Motor wire to MCB and make sure connector is tight. b. Continuous 01A3 error, please make sure Motor wire to MCB connector is tight. | Check the connection of the motor cable at the MCB. MCB LED DSP1 should be slowly blinking in a normal state. If blinking fast or it is solid, replace motor. |
| 01A4 | Main motor U phase disconnection | С | a. Intermittent 01A4 error, please disconnect Motor wire to MCB and make sure connector is tight. b. Continuous 01A4 error, please make sure Motor | Check the connection between motor cable and MCB. Replace the motor necessary. |

5 | Revision Date: 3/23/23 | Revised by: EM

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|---|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | wire to MCB connector is tight. If also can't fixed | |
| | | | issue replace the motor set | |
| 0145 | Main mater V phase disconnection | 6 | a Intermittant 0145 array places disconnect Mater | Charle the connection between motor cable and |
| UIAS | Main motor v phase disconnection | C | a. Intermittent UIAS error, please disconnect Motor | MCB. Replace the motor pecessary |
| | | | wire to MCB and make sure connector is tight. | Web. Replace the motor necessary. |
| | | | b. Continuous 01A5 error, please make sure Motor | |
| | | | wire to MCB connector is tight. If also can't fixed | |
| | | | issue replace the motor set | |
| 01A6 | Main motor W phase disconnection | C | a. Intermittent 01A6 error, please disconnect Motor | Check the connection between motor cable and |
| | | | wire to MCB and make sure connector is tight. | MCB. Replace the motor necessary. |
| | | | b. Continuous 01A6 error, please make sure Motor | |
| | | | wire to MCB connector is tight. If also can't fixed | |
| | | | issue replace the motor set | |
| 01A7 | See Error 0148 | - | Don't fix the incline motor tube then turn on the | See Error 0148 |
| | | | power. | |
| | | | - If the console still shows 0148, please replace incline | |
| | | | motor. | |
| | | | motor installation SOP to fix incline motor | |
| 01A8 | Motor over current (FTM501 – Delta board, | С | 1. Perform an initial friction test (see Deck Friction Tes | ting, NB-1808006). Record the results. |
| | TREADMILL | | 2. Check to ensure the belt is on a dedicated circuit. | <i>,</i> , |
| | , | | 3. Check for proper belt tension. | |
| | | | 4. If belt needs to be tensioned, perform another friction | on test. Record the results. Refer to Results section in |
| | | | the Deck Friction Testing document to confirm what ac | tion to take. |
| | | | If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should | |
| 014P | Invertor Error | - C | warrant replacing the deck and belt or flippin | ig the deck and replacing the belt. |
| UIAB | | | מ. הבטומנב נוופ ועוכם | Vitien display is showing the error, the MCB fault |
| | | | | LED Should be lit. If LED is not lit, replace UCB. If |
| | | | | lit, replace MCB. |
| 1 | | 1 | 1 | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 01AC | ECB is over current (CLIMBMILL) | - | a. Replace the Electromagnet (ECB) | Check the connection of the ECB extension cable from the LCB to the ECB (Green, white and red wire). After checking connections, check pins 1 and 3 on ECB1 and pins 2 and 4 on ECB 2; should be between 12.8 and 14.2 ohms. If out of range, replace ECB. If within range, replace LCB. Check the gap between the ECB and the flywheel. The gap should be .5 mm; adjust as needed. |
| 01AC | ECB is over current (BIKE) | - | a. Replace the Electromagnet (ECB) | |
| 01AD | Inner electron (motor) over temperature: motor over loading (TREADMILL) | С | Perform an initial friction test (see Deck Friction Testing under, NB-1808006). Record the results. Check to ensure the belt is on a dedicated circuit. Check for proper belt tension. If belt needs to be tensioned, perform another friction test. Record the results. Refer to Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. | |
| 01AE | See Error 014A | - | Replace the LCB | See Error 014A |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|--------------|---|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 01AF | Power resistor is disconnected ECB is disconnected (CLIMBMILL) | C | HUR bike: a. Upgrade LCB software to S012 can solve this issue. b. If LCB software version is S012, Replace the Electromagnet (ECB) AT / C: a. Replace the Electromagnet (ECB) | Check the connection of the resistor at LCB. Replace LCB. Check the connection of the ECB extension cable from the LCB to the ECB (Green, white and red wire). Check to see if LED8 and LED10 on the LCB have a brief light for 3 seconds when you power on machine (or for CS29/CS30, during workout). If LED 8 and 10 do not have brief light, replace LCB. If LED 8 and 10 do have a brief light, check the ECB extension cable at the LCB (pins 1 and 3 for ECB 1; pins 2 and 4 for ECB The reading should be between 12.8 and 14.2 ohms.) If resistance is out of range, replace ECB. If it's within range, replace LCB. Check the gap between the ECB and the flywheel. The gap should be .5 mm; adjust as needed. |
| 01B0 01B1 | See Error 014B See Error 014C | - | a. Check the connection of the incline motor cable at the LCB.b. Replace the incline motorDon't fix the incline motor tube then turn on the | See Error 014B See Error 014C |
| | | | power. If the console still shows 014C, please replace incline motor. If auto calibration is finished, please follow the incline motor installation SOP to fix incline motor. | |
| 01B2 | See Error 014D | C | a. Please run Auto Calibration. b. Replace the incline motor | See Error 014D |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------------|--|--------|---|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 01B3 | See Error 014E | - | a. Please run Auto Calibration. | See Error 014E |
| | | | b. Replace the incline motor | |
| 01B4 | Battery connection reversed | С | a. Check the battery wire connection between the | Check wire connections on battery terminals. |
| | | | battery and LCB. | Should be black to black, red to red. Replace the |
| | | | b. Replace the battery | LCB. |
| 01B5 227 | Console Sent Incline Command to Frame: 1. No Movement detected by the MCB for more than 5 seconds 2. Incline traveled in the wrong directing for more than 3 seconds 3. Incline position is out of range for more than 4 seconds Auto-calibration failure – console also displays "LOW" (FTM522) | A - | Confirm Incline Motor connections are secure Perform Auto Calibration Consider Replacing Incline Motor (Code added for new drive system for TM548) | Upgrade console software to current version. |

LCB Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|-----------------------------------|-------|--|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0201 | LCB battery low voltage | Α | Plug in the machine to charge battery for 24 hours. | |
| | | | | |
| 0240 | Low AC power input voltage | В | a. Intermittent 0240 error, please check if the input pow | er is normal (110V: over 140V / 220V: over 280V). |
| | | | 1. Perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. | |
| | | | 2. Check to ensure the belt is on a dedicated circuit. | |
| | | | 3. Check for proper belt tension. | |
| | | | 4. If belt needs to be tensioned, perform another friction test. Record the results. Refer to Results section in | |
| | | | the Deck Friction Testing document to confirm what action to take. | |
| | | | If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should | |
| | | | warrant replacing the deck and belt or flipping | the deck and replacing the belt. |
| | | | | |
| 0241 | Low DC bus voltage of drive motor | В | TBD | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0242 | MCB/LCB over temperature | В | TBD | Remove MCB/LCB cover and remove/clean dust from MCB/LCB cooling fan. Check that MCB/LCB fan operates during workout phase. Vacuum entire motor bay to ensure good airflow. |
| 0243 | Soft start circuit of DC bus fail | В | TBD | |
| 0244 | ECB sensor fail | В | TBD | |
| 0245 | ECB calibration fail | В | TBD | |
| 0246 | ECB over current | В | TBD | |
| 0247 | LCB fail | В | a. Replace LCB | |
| 0248 | Battery disconnection or fail (Low battery: LCB battery voltage is less than 6 volts) | В | a. Check battery wire connection to LCB. b. Replace the battery | Check battery wire connection to LCB. Check battery voltage; if less than 6 volts, replace battery. If not less than 6 volts, replace LCB. |
| 0249 | LCB fan failure | В | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code. | Check the connection of the fan cable at both ends and perform continuity test. Replace fan. |
| 024A | Safety switch error (Cannot receive any data for over 5 seconds) | В | a. Replace the transmission board | Check the safety switch communications wire. |
| 024B | Location sensor does not respond; RPM is not 0. | В | a. Replace proximity sensor | Check the connection of the position sensor cable from the LCB to the position sensor. Turn off the DC brake by moving the red handle downward. Rotate the stairs a least 1 complete revolution. Confirm the gap is lower than 3.5mm between the axle and proximity sensor and does not hit. Check to see if LED D8 (LED18 on CS29/CS30) on the LCB is flashing when press "Go" and rotate the stairs. - If not, replace the proximity sensor. - If yes, replace the LCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 | |
|-------|---|-------|--|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) | |
| 024C | Temperature sensor abnormal | В | a. Enter the Engineer mode disable B Level Error, bypass | s CLASS A and B error code. | |
| 024D | Control zone is touched for over 60 seconds | В | a. Check for object in the control zone. Check the power of transmitter board (LED should be solidgreen). | | |
| | (Frame IR Sensor Error for new small board) | | b. Check whether any object is blocking the IR sensor signal transmission. | | |
| 024E | Frame IR sensor is touched for over 60 | В | a. Check for object in the control zone. Check the power | r of transmitter board (LED should be solidgreen). | |
| | seconds (E-Stop Control Zone Error for 3 IR Sensor Control Zone) | | b. Check whether any object is blocking the IR sensor signal transmission. | | |
| 0250 | The 2 nd speed sensor (on the frame near | В | a. Check the speed extend wire connection between th | e brake and LCB for any damage. | |
| | sprocket set) has no response. (RETAIL | | b. Check to see if the LED21 on the LCB is flashing when the unit | | |
| | CLIMBMILL) | | If it is not, replace the second speed sensor (near the sprocket set). c. If it is, adjust the second speed sensor position and clean the speed sensor of any debris then re-test or replace LCB. | | |
| 029F | An error created by DCI motor controller (AC motors only) | В | d. Cycle power. Manually move the running belt. As it moves, MCB speed LED should flash. If not, replace speed sensor. If LED flashes with belt movement, replace console cable. | | |
| 02A0 | Main motor failure. Belt doesn't move when | С | Check the motor wire connection between the motor a | nd MCB. Press the start key and check the MCB PWM | |
| | it's supposed to move. | | LED. If LED does not flash, replace UCB. If it flashes, use | a multimeter and check the 3 points (U/V/W) and see | |
| | | | if there's a resistance reading. If yes, replace MCB. | | |
| | Encoder error. Unit is in pause mode at all | - | a. Check the connection of the speed sensor cable | Check the connection of the speed sensor cable | |
| | times. (CLIMBMILL) | | from the LCB to the speed sensor. | from LCB to speed sensor. Check to see if LED D35 | |
| | | | b. Replace the speed sensor | (LED 19 on CS29/CS30) on the LCB is on when the | |
| | | | | brake is turned to the release position. If D35/19 is | |
| | | | | orr, move the stairs and check to see if LED D35/19 | |
| | | | | Is hashing, if not hashing, replace speed sensor. If | |
| | | | | and retect | |
| | | | | | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--------------------------------------|-------|---|--|
| Code | | Level | (CTS) | (Technician in the Field) |
| | Speed commanded but no belt movement | - | a. Check the connection of the speed sensor cable | 1. Check the connection of the speed sensor cable |
| | detected (DCI only) | | from the LCB to the speed sensor. | to the MCB. |
| | | | b. Replace the speed sensor | 2. Move the running belt with your hand. As it |
| | | | | moves, the MCB Speed LED should flash. |
| | | | | a. If it doesn't, replace speed sensor. |
| | | | | b. If LED is flashing with belt movement, replace console cable. |
| | | | | 3. Perform an initial friction test (see Deck Friction |
| | | | | Testing, NB-1808006). Record the results. |
| | | | | 4. Check to ensure the belt is on a dedicated |
| | | | | circuit. |
| | | | | 5. Check for proper belt tension. |
| | | | | 6. If belt needs to be tensioned, perform another |
| | | | | friction test. Record the results. Refer to Results |
| | | | | section in the Deck Friction Testing document to |
| | | | | confirm what action to take. |
| | | | | a. If treadmill is on a dedicated circuit and belt |
| | | | | tension is correct, the friction test results should |
| | | | | warrant replacing the deck and belt or flipping |
| | | | | the deck and replacing the belt. |
| | | | | 7. If the problem persists, replace MCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|---------------------------------------|-------|--|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 02A1 | Over AC power input voltage | С | Using multimeter, check that the input power matches t | the local power specs at MCB. Change to a different |
| | | | outlet if flecessary. | |
| 02A2 | Over DC bus voltage | С | 1. Intermittent 02A2 error, please check if the input | Using multimeter, check that the input power |
| | | | power is normal (110V: over 140V / 220V: over | matches the local power specs at MCB (110V: over |
| | | | 280V). | 140V/ 220V: over 280V for 7xe/7xi models). Change |
| | | | 2. Perform an initial friction test (see Deck Friction | to a different outlet if necessary. |
| | | | Testing, NB-1808006). Record the results. | |
| | | | 3. Check to ensure the belt is on a dedicated circuit. | |
| | | | 4. Check for proper belt tension. | |
| | | | 5. If belt needs to be tensioned, perform another | |
| | | | friction test. Record the results. Refer to the Results | |
| | | | section in the Deck Friction Testing document to | |
| | | | confirm what action to take. | |
| | | | If treadmill is on a dedicated circuit and | |
| | | | belt tension is correct, the friction test | |
| | | | results should warrant replacing the deck | |
| | | | and belt or flipping the deck and replacing | |
| | | | the belt. | |
| | | | 6. CTM707 console only – If error displays when the | |
| | | | emergency stop is lifted after being engaged, replace | |
| | | | the UCB (replacement UCBs have been reworked | |
| | | | with different emergency stop resistors). | |
| 02A3 | Low AC power input voltage when motor | С | 1. Intermittent 02A3 error, please check if the input | Check if the input power is normal (110V: low 76V / |
| | running | | power is normal (110V: over 140V / 220V: over | 220V: low 186V). |
| | | | 280V). | |
| | | | 2. Perform an initial friction test (see Deck Friction | |
| | | | Testing, NB-1808006). Record the results. | |
| | | | 3. Check to ensure the belt is on a dedicated circuit. | |
| | | | 4. Check for proper belt tension. | |
| | | | 5. If belt needs to be tensioned, perform another | |
| | | | friction test. Record the results. Refer to the Results | |
| | | | section in the Deck Friction Testing document to | |
| | | | confirm what action to take. | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|---|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | If treadmill is on a dedicated circuit and belt | |
| | | | tension is correct, the friction test results | |
| | | | should warrant replacing the deck and belt or | |
| | | | flipping the deck and replacing the belt. | |
| 02A4 | U phase current sensor and circuit fail | С | a. Please check the Motor wire connection | TBD |
| | | | between the Motor and MCB. | |
| | | | | |
| 02A5 | V phase current sensor and circuit fail | С | a. Please check the Motor wire connection | TBD |
| | | | between the Motor and MCB. | |
| | | | | |
| 02A6 | W phase current sensor and circuit fail | C | a. Please check the Motor wire connection | TBD |
| | | | between the Motor and MCB. | |
| | | | | |
| 02A7 | Motor over current | С | 1. Perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. | |
| | | | 2. Check to ensure the belt is on a dedicated circuit. | |
| | | | 3. Check for proper belt tension. | ion toot. Depend the require Defente Depute continuin |
| | | | 4. If belt needs to be tensioned, perform another frict the Deck Friction Testing document to confirm what ac | tion to take |
| | | | If treadmill is on a dedicated circuit and belt ter | nsion is correct, the friction test results should warrant |
| | | | replacing the deck and belt or flipping the deck | and replacing the belt. |
| 02A8 | Inverter circuit of motor failed; motor | C | a. Replace the motor | Check the motor wire connection between the |
| | resistance is closed | | | motor and MCB. Press the start key and check the |
| | | | | MCB PWM LED. If LED does not flash, replace UCB. |
| | | | | If it flashes, use a multimeter to check the 3 points |
| | | | | (U/V/W) and see if there's a resistance reading. If |
| | | | | no, replace motor. |
| 02AA | Main motor over limited current | C | 1. Intermittent 02AA error, perform an initial friction te | est (see Deck Friction Testing, NB-1808006). |
| | | | Record the results. | |
| | | | 2. Check to ensure the beit is on a dedicated circuit. | |
| | | | 3. Check for proper beit tension. | an tast. Record the results Refer to the Results |
| | | | 4. If beit needs to be tensioned, perform another friction | m what action to take |
| | | | If treadmill is on a dedicated circuit and belt to | ni what action to take. |
| | | | In treadmin is on a dedicated circuit and belt ter | ision is correct, the miction test results should |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | warrant replacing the deck and belt or flipping | the deck and replacing the belt. |
| 02AB | Machine type error | С | Change the machine type on the console to match the correct frame | |
| 02AC | Main motor out of control (speed too high) | С | a. Replace the MCB. | |
| 02AD | LCB/MCB over temperature | C | a. Replace the MCB. | Check MCB fan/frame fan for proper function. If fans are running, replace LCB/MCB. Check the motor wire connection between motor and MCB. Using the multimeter set to ohms, check the two blue wires for a resistance reading. If there is a reading, replace MCB. If there's no reading, replace motor. |
| 02AE | Critical failure (DCI only MCB) | - | Cycle power. If error code persists, replace DCI MCB wit | h Delta MCB. |
| 02AF | Critical failure (DCI only MCB) | - | Cycle power. If error code persists, replace DCI MCB with Delta MCB. | |
| 02B1 | Safety key action response when safety key is in place | C | Check the connection of the safety key switch. If switch is open or shorted out, replace the switch & wires. If replacement doesn't work, replace the UCB. | |
| 02B2 | Safety key action response when safety key is in place | С | Check the connection of the safety key switch. If switch replacement doesn't work, replace the UCB. | is open or shorted out, replace the switch & wires. If |
| 02B3 | Machine Type Error | С | Change the machine type in console to match frame. | |
| 02B4 | Resistance Type Error | С | a. Make sure machine type is set for the correct frame in console. | Make sure machine type is set for the correct frame in console. If yes, replace LCB, if no, change to correct type. If error persists, replace the UCB. |
| 02B5 | Inverter sensor (motor wire) is reading current over 10.5 amps for 60 seconds | C | Belted Treadmills: 1. Perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. 2. Check to ensure the belt is on a dedicated circuit. 3. Check for proper belt tension. 4. If belt needs to be tensioned, perform another | Belted Treadmills: Use a multimeter to check 3 points (U, V, W) to see if resistance is over 4 ohms. If yes, replace motor. If no, perform friction test (see steps 1–4 to left). If error persists, replace MCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|-------------------------|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | friction test. Record the results. Refer to the Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. | Performance Plus (slat belt) Treadmills: Use a multimeter to check 3 points (U, V, W) to see if resistance is over 4 ohms. If yes, replace motor. If error persists, replace MCB. |
| | | | Performance Plus (slat belt) Treadmills: | |
| 02B6 | Speed UP over current | C | Intermittent 02B6 error, perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. Check to ensure the belt is on a dedicated circuit. Check for proper belt tension. If belt needs to be tensioned, perform another friction test. Record the results. Refer to the Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. | Visually inspect the running belt and deck for signs of wear. Perform friction test (see steps 1–4 to left). Replace belt or flip deck as needed. If error persists, replace MCB. |
| 02B7 | Speed DOWN over current | C | Intermittent 02B7 error, perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. Check to ensure the belt is on a dedicated circuit. Check for proper belt tension. If belt needs to be tensioned, perform another friction test. Record the results. Refer to the Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results | Visually inspect the running belt and deck for signs of wear. Perform friction test (see steps 1–4 to left). Replace belt or flip deck as needed. If error persists, replace MCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|--|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | | | should warrant replacing the deck and belt or | |
| | | | flipping the deck and replacing the belt. | |
| 0288 | Running status over current | С | Intermittent 02B8 error, perform an initial friction test (see Deck Friction Testing, NB-1808006). Record the results. Check to ensure the belt is on a dedicated circuit. Check for proper belt tension. If belt needs to be tensioned, perform another friction test. Record the results. Refer to the Results section in the Deck Friction Testing document to confirm what action to take. If treadmill is on a dedicated circuit and belt tension is correct, the friction test results should warrant replacing the deck and belt or flipping the deck and replacing the belt. | Visually inspect the running belt and deck for signs of wear. Perform friction test (see steps 1–4 to left). Replace belt or flip deck as needed. If error persists, replace MCB. |
| 02B9 | The inner memory IC data write error (Delta) | С | a. Replace the MCB | Check LED DSP1 on MCB. If LED is blinking, replace UCB. If LED is lit solid, replace MCB. If LED is not lit, check power to MCB. In a normal state the DSP1 LED should be slowly blinking. |
| 02BA | The inner memory IC data read error (Delta) | С | a. Replace the MCB | Check LED DSP1 on MCB. If LED is blinking, replace UCB. If LED is lit solid, replace MCB. If LED is not lit, check power to MCB. In a normal state the DSP1 LED should be slowly blinking. |
| 02BB | Inverter hardware interrupt error | C | a. Inspect and check all wiring for anything wired incorrectly or disconnected. b. With power turned off, unplug the fan connection from the MCB, then turn on power to see if error reappears on the console. Repeat this with each component plugged into the MCB until the error does not appear. When error does not reappear, the component that is not plugged into the MCB should be replaced. | Reboot power, if error shows again, replace the MCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 02BC | Ground connection or fuse error (Delta) | С | a. Replace the MCB | Check LED DSP1 on MCB. If LED is blinking, replace UCB. If LED is lit solid, replace MCB. If LED is not lit, check power to MCB. In a normal state the DSP1 LED should be slowly blinking. |
| 02BD | Inverter hardware interrupt error (Delta) | С | a. Replace the MCB | Check LED DSP1 on MCB. If LED is blinking fast, replace UCB. If LED is lit solid, replace MCB. If LED is not lit, check power to MCB. In a normal state the DSP1 LED should be slowly blinking. |
| 02BE | DC brake error | С | a. Check to see if the stairs will move when you are in the stop position. If yes, replace the brake. | Check the power extended wire connection between the brake and the LCB for damage. Replace if necessary. Manually try to move the stairs. If the stairs move, replace brake. |
| 02BF | DC brake over current | С | a. Replace the brake. | Check the power extended wire connection between the brake and the LCB for damage. Replace if necessary. Manually try to move the stairs. If the stairs move, replace brake. |
| 02C0 | DC brake in manual mode | С | a. Check if the DC brake is in the "Right "lock position. Release the brake (move to the left) if in lock position. Replace the brake. | Push lever on DC brake up to engage the brake. Cycle power. If error persists, replace brake. |
| 02C1 | Speed tracking error; the speed tracking is off by at least 10 RPMs for at least 20 continuous seconds | С | a. Replace the speed sensor | Adjust speed sensor position and clean free of debris. Check the ECB extension cable connection at the LCB. Check the resistance (Pins 1 and 3 for ECB1, Pins 2 and 4 for ECB2.) There should be between 12.8 and 14.2 ohms. If resistance is out of range, replace ECB. If it's within range, replace LCB. |
| 02C2 | CZ 3IR sensors have no communication or disconnected over 3 seconds | С | a. Replace the transmission board | Check if there is something blocking CZ IR sensors. Check the connection of the CZ extension cable from LCB. If LED1 on receiver board is flashing, perform continuity test on the extension cable (white wire, pin 2) from the LCB to the receiver board. If not good, replace cable. If okay, check if LED D12 on the LCB is lit. If not lit, replace LCB. If lit, check LED1 status on the receiver board. If that LED is lit, replace the transmission board. If that LED is not lit, replace the receiver board. |
| 02C3 | Frame IR sensor error | С | a. Replace the frame IR transmitter cable | Check if there is something blocking the frame IR sensors. Check the connection from frame IR cable to the LCB. Check LED1 on the daughter board. If it is not flashing, replace daughter board. If flashing, replace frame IR cables. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 02C4 | The frequency error for climbmill control zone (The signal is abnormal over ten seconds) | С | b. Replace the control zone receiver board. | Replace the control zone transmitter board or receiver board. |
| 02C5 | The frequency error for climbmill frame IR sensor (The signal is abnormal over ten seconds) | С | Replace LCB. | |
| 02C6 | The receiver is disconnected for climbmill control zone (Connector is disconnected over 3 seconds) | С | a. Check the connection of the control zone extension cable from the LCB to the control zone. Cycle power. Check error log and SN case history. If the error happened less than two times in the past year, do not send any parts. Replace the receiver board. | Check the connection of the control zone extension cable from the LCB to the control zone. Replace the receiver board or control zone extension cable or LCB. |
| 02C7 | The receiver is disconnected for climbmill frame IR sensor | С | c. Check the connection of the frame IR receiver cable from the LCB to the frame IR receiver sensor. b. Replace the frame IR receiver cable. | Check the connection of the frame IR receiver cable from the LCB to the frame IR receiver sensor. Replace the LCB set or the frame IR receiver cable. |
| 02CD | DC brake disconnects (climbmill only) | С | a. Check the power wire connection between the brake and LCB for any damage. b. Check to see if LED16 on the LCB is on when the unit is powered on. If it is not, replace the LCB. d. If it is, replace the brake. | a. Check the power wire connection between the brake and LCB for any damage. b. Check to see if LED16 on the LCB is on when the unit is powered on. If it is not, replace the LCB. If it is, replace the brake. |
| 02CE | Error Signal on ECB Board is High | A | Confirm ECB Board is connections are secure Consider Replacing ECB Board (Code added for new drive system for TM548) | |
| 02CF | ECB Board has detected an abnormal supply Voltage | A | Confirm ECB Board is connections are secure Consider Replacing ECB Board (Code added for new drive system for TM548) | |
| 02D0 | Limit switch for brake has been toggled | A | Confirm Limit Switch connection is secure Consider Replacing Limit Switch (Code added for new drive system for TM548) | |
| 02D1 | ECB Swing Arm is not moving | A | Confirm ECB Swing Arm can move freely Consider Replacing ECB Module (Code added for new drive system for TM548) | |

UCB Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0301 | Memory block fail | А | a. Enter the Engineer mode disable B Level Error, | Cycle power. If not resolved, check Feature Access |
| | | | bypass CLASS A and B error code. | Code document for memory clear function. If none |
| | | | | or does not fix, replace UCB. |
| 0302 | UCB low battery voltage | A | Replace battery. | |
| 0303 | UCB low supply voltage | A | 1. Enter Engineer Mode & disable Error Codes. | 2. Make sure the RPM over 35, when the machine of self-power mode. |
| 0304 | Earphone Board Need Replace | А | 1. Replace Earphone Board. Reset insert counter in Service Mode (if applicable). Cycle power. | |
| 0305 | USB Hardware OT or OC | A | Enter Engineer Mode & disable Error Codes. Replace USB board & cable. | 3. Replace UCB. |
| 0306 | Keypad press keep 60 seconds | A | Replace Keypad. (Note: The message on the console screen helps isolate the defective keypad. "Replace Up" means the program keypad, "Replace Lower" means the entertainment keypad, and "Replace Quick" means either the hand grip toggles or the quick start overlay on the treadmill handlebars.) | |
| 0307 | Not enough free space on the console to apply the update | A | 1. Press the three buttons Volume Up, Volume Down, seconds (so that the console restores back to 1.0.2.) | and Channel Down on the keypad simultaneously for 5 5 version automatically). |
| | | | Wait for the console to go back to version 1.0.2.5 (for about 6 minutes, done when 'Welcome'screen shows). Proceed to update the console again (using USB flash drive or RSCU via network). | |
| 0308 | Software package install failed | А | Same as for error code 0307 | |
| 0309 | Software package MD5 check failed | A | Attempt the update again. If using USB update, ensure f | iles downloaded & transferred properly. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 | | |
|-------|---|-------|---|---|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) | | |
| 030A | Failed to download software package | А | Check if the console can connect to network (via WiFi or | Ethernet): | | |
| | | | 1. Press 'enter 3 0 0 1 enter' on the keypad to enter eng | ineering mode. | | |
| | | | 2. Tap 'General' tab and then scroll down to the bottom | to check if the DAPI environment is set to | | |
| | | | 'Production'. | | | |
| | | | 3. Tap 'Network Setup' tag to check if WiFi or Ethernet r | network is available. | | |
| | | | 4. Tap 'Update' tag, and then tap 'Check For Update' but | tton. | | |
| | | | 5. Wait for the busy indicator (a circling twin-arrow icon |) to show on the screen. | | |
| | | | 6. When the busy indicator disappears, check if information | tion about available update packages shows on the | | |
| | | | screen. | | | |
| | | | - If so, tap 'Install' button to update the console ag | gain. | | |
| | | | - If not, then network is not available to the conso | le at the moment. RSCU update cannot go until the | | |
| | | | Internet network is fixed. | Internet network is fixed. | | |
| | | | | | | |
| | | | Attempt software update via USB. | | | |
| 0340 | Keypad in extraordinary operation | В | 1. Replace Keypad | | | |
| | | | | | | |
| 0341 | Fan over current | В | 1. Replace Fan | | | |
| 0242 | | Р | a Paplaca the LCP | Chack the LCP provide new or: if it is over 12 valts | | |
| 0545 | OCB Over supply voltage | D | | replace LCB. Otherwise replace LCB | | |
| | | | | | | |
| 0344 | Timeout receive packet (Not recommended | В | a. Check the connection of the console cable at both en | ds and perform continuity test. | | |
| | for re-use, make use of 04B0 code) | | b. Replace the UCB | | | |
| | | | | | | |
| 0345 | Correct packet but LCB without the function | В | 1. Enter Engineer Mode & disable Error Codes. | 2. Replace the UCB. | | |
| | | | | | | |
| 0346 | UCB detect incline position error | В | 1. Perform Incline Auto Calibration. | 3. Replace Incline motor | | |
| | | | 2. Enter Engineer Mode & disable Error Codes. | | | |
| 0347 | VA Load program fail | В | 1. Enter Engineer Mode & disable Error Codes. | Reload SD card from known good card. Check VA | | |
| | | | 2. Verify SD card mounted properly. | software (should be 2.91 version). If not, replace VA | | |
| | | | 3. Replace VA microSD card. | board. | | |
| 0348 | Motor not to run | В | 1. Enter Engineer Mode & disable Error Codes | 2. Replace the UCB. | | |
| | | _ | | | | |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|---|-------|--|---------------------------|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 03A5 | Failed to load program (programs exist in the file system; this error | С | Ensure machine type is correct. Update UCB software to latest version. | 3. Replace the UCB. |
| | could mean the file system is corrupt) | | | |
| 03A6 | Failed to run program (the program read from the file system is invalid or has an invalid format, therefore it cannot be executed) | С | Ensure machine type is correct. Update UCB software to latest version. | 3. Replace the UCB. |
| 03A7 | See Error 0347 | - | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code. b. Replace VA Micro SD card | See Error 0347 |
| 03A8 | Machine type error | С | Ensure machine type is correct. Update UCB software to latest version. | 3. Replace the UCB. |
| 03A9 | See Error 0348 | С | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code. | See Error 0348 |

Communication Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|---|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 0440 | Timeout received packet (BIKE) | В | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code | Check status of LCB LED10. If LED10 is blinking, cycle power. If there is still an error, update UCB software. If error persists, replace the console. If LED 10 is not lit, check console cable connection at both ends. If it is securely plugged in, replace console cable. If still error, replace UCB. Then replace LCB if necessary. |
| 0441 | Correct packet but LCB/MCB without function | В | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code | Check the console cable connections. Update LCB software if possible. Replace LCB or UCB as necessary. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | Command is received from the console with correct packet, but the daughter board has no function to support it (TREADMILL DCI) | - | | Cycle power on unit. If the issue is not fixed, replace daughter board. |
| 0442 | Command is received from the console with correct packet, but the daughter board has no function to support it (TREADMILL DCI) | - | a. Enter the Engineer mode disable B Level Error, bypass CLASS A and B error code | Cycle power on unit. If the issue is not fixed, replace daughter board. |
| 0443 | LCB read or write wrong | В | a. Enter the Engineer mode disable B Level Error, bypass | s CLASS A and B error code |
| 04A0 | 2016 5x consoles (EP623/EP624/CS27/CS28/TM530) only | - | Upgrade to software version 8.6 or higher. | |
| | LCB/MCB no communication received (TREADMILL) | С | a. Check the connection of the console cable at both ends and perform continuity test. b. Replace the LCB | Delta only: If the display is showing 04A0 error, LED DSP2 should be off. If light is on, replace the UCB. Check the connection of the console cable at both ends and perform continuity test. Replace console cable. Replace MCB/LCB. |
| | Console communication is lost (TREADMILL DCI) | - | | Check connection of console cable. If no signal is present through console cable, LED 1 on the daughter board should not be lit. Replace console cable. Replace daughter board. |
| | UCB communication disconnect (BIKE - Chopper) | - | | Check status of LCB LED10. If blinking, cycle power. If there is still an error, update UCB software. If the error persists, replace the UCB. If LED 10 is OFF, check console cable connection at both ends. If securely connected, replace console cable. If error persists, replace UCB. Replace LCB if necessary. |
| | Console has no communication or is disconnected (CLIMBMILL) | - | | Check console cable connections, perform continuity test on cable. Ensure console is getting 12 volts DC between pin 1 and pin 8 at console end. If not, replace console cable. If it is, replace the UCB. |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|---|---|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| | Windows 7xi (CTM521, EP614) only: Error occurs after updating to software version 8.0.25 | - | Go to Update Manager. Using HTTP as the update sourc finished, Service Mode > Support tab should show v10.0 | e, install all available updates. After the update is) for "7xi control service" software. |
| 04B0 | Console/LCB no communication received (TREADMILL or ASCENT) | С | a. Check the connection of the console cable at both ends and perform continuity test.b. Replace the UCB | Check the console cable at both ends. Replace console cable if damaged. Swap console with known good if connections are good. Replace the UCB. Replace MCB/LCB. |
| | Console/LCB no communication received (BIKE - Chopper) | - | | Check status of LCB LED10. If blinking, cycle power. If there is still an error, update UCB software. If that doesn't fix it, replace the UCB. If LED 10 is OFF, check console cable connection at both ends. If it is securely plugged in, replace console cable. If still error, replace UCB. Then replace LCB if necessary. If LED 7, 8, 9 and 10 are blinking together, this indicates LCB software problem. Reinstall software or replace LCB. |
| | No response from LCB (CLIMBMILL) | - | | Check console cable connections. Perform continuity test on cable. Ensure console is getting 12 volts by touching pin 1 and pin 8 at console end. If not, replace console cable. If it is, replace the LCB. |
| 04B1 | IO board does not have communication response for 5 seconds | С | Replace UCB. | <u></u> |

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|----------------------------------|-------|--|--|
| Code | Description | Level | (CTS) | (Technician in the Field) |
| 04B2 | Control service crashed | - | Attempt to export log files (on the Android 7xe or 7xi If the console is frozen and does not respond, r If the log files successfully download, record the number, and the approximate date and time th with the log files, to customer tech support. Verify the software version. If not current, update the console to current ve If current, turn on persistent logging (in the Ser record the site name, frame serial number, con time the error code appeared. Send this inform support. | console, press ✓ 4007 ✓ on the keypad). eboot the console or cycle power. e site name, frame serial number, console serial e error code appeared. Send this information, along rsion. vice Menu). If the error reoccurs, collect log files and sole serial number, and the approximate date and ation, along with the log files, to customer tech |
| 04B3 | Machine type not recognized | - | Check the error log. If error 04B3 has occurred more tha Retrieve the serial numbers from the console a From the Welcome screen, press "Enter, 3002, In addition to the serial numbers, the console s setup, machine, and date and time. From the Welcome screen, press "Enter, 3001, perform a channel scan. | n two times, follow these steps: nd frame serial number labels. Enter". creens will prompt you to enter language, Wi-Fi Enter" for Service Mode. Go to TV Channel Setupand |
| 04B5 | Invalid IO checksum | A | | Upgrade console software to current version. |
| 04B6 | No communication response to UCB | A | | Upgrade console software to current version. |

Massage Chair Errors

| Error | Description | Class | Troubleshooting – Level 1 | Troubleshooting – Level 2 |
|-------|--|-------|--|---------------------------------|
| Code | | Level | (CTS) | (Technician in the Field) |
| 0510 | Tapping motor has some failure that motor disconnect, out of current range, sensor | В | 1. Check if the error code reappears by cycling power. 2. If the error code still appears, check drive mechanism of tapping and consider replace this drive mechanism | |
| | broken or some other abnormal situation. | | 3. If the error code still appears, consider replace tapping motor or machine core. | |
| | | | 4. If the error code still appears, consider replace wiring. | |
| | | | 5. If the error code still appears, consider replace LCB. | |
| 0511 | Kneading motor has some failure that motor | В | 1. Check if the error code reappears by cycling power. | |
| | disconnect, out of current range, sensor | | 2. If the error code still appears, check drive mechanism of kneading and consider replace this drive | |
| | broken or some other abnormal situation. | | mechanism. | |
| | | | 3. If the error code still appears, consider replace maching | ne core. |
| | | | 4. If the error code still appears, consider replace wiring. | |
| | | _ | 5. If the error code still appears, consider replace LCB. | |
| 0513 | Up/Down motor has some failure that motor | В | 1. Check if the error code reappears by cycling power. | |
| | disconnect, out of current range, sensor | | 2. If the error code still appears, check up/down sensor and consider replace this sensor. | |
| | broken or some other abnormal situation. | | 3. If the error code still appears, consider replace machin | ne core. |
| | | | 4. If the error code still appears, consider replace wiring. | |
| 0515 | Footrost Angle actuator has some failure that | D | 5. If the error code still appears, consider replace LCB. | |
| 0515 | rootrest Angle actuator has some failure that | в | 1. Check if the error code still appears by cycling power. | |
| | holen or some other abnormal situation | | 2. If the error code still appears, consider replace footree | ted weil, lix it. |
| | | | 4. If the error code still appears, consider replace ICB | |
| | | | | |
| 0517 | Backrest Angle actuator has some failure that | В | 1. Check if the error code reappears by cycling power. | |
| | motor disconnect, out of current range, sensor | | 2. If the error code still appears, check connector connect | ted well, fix it. |
| | broken or some other abnormal situation. | | 3. If the error code still appears, consider replace backre | st motor. |
| | | | 4. If the error code still appears, consider replace LCB. | |
| 0520 | Air pump has some failure that pump | В | 1. Check if the error code reappears by cycling power. | |
| | disconnect, out of current range or some other | | 2. If the error code still appears, check connector connect | cted well, fix it. |
| | abnormal situation. | | 3. If the error code still appears, consider replace Air Pur | np. |
| | | | 4. If the error code still appears, consider replace LCB. | |
| 0540 | The LCB will happen this alert if LCB cannot | В | 1. Check if the alert code reappears by cycling power. | |
| | receive a correct communication response for | | 2. Inspect and reconnect the communication cable to ch | eck if the alert code reappears |
| | more than long time. | | 3. If the alert code still appears, consider replacing the L | CB or the console. |
| 0541 | The console will happen this alert if console | В | 1. Check if the alert code reappears by cycling power. | |
| | cannot receive a correct communication | | 2. Inspect and reconnect the communication cable to ch | eck if the alert code reappears |
| | response for more than long time. | | 3. If the alert code still appears, consider replacing the L | CB or the console. |

| 0545 | The RFID reader will happen this alert if console cannot receive a correct communication response for more than long time. | В | Check if the alert code reappears by cycling power. Inspect and reconnect the communication cable to check if the alert code reappears If the alert code still appears, consider replacing the RFID reader. |
|------|--|---|--|
| 0546 | The Wi-Fi module will happen this alert if console cannot receive a correct communication response for more than long time. | В | Check if the alert code reappears by cycling power. Inspect and reconnect the communication cable to check if the alert code reappears If the alert code still appears, consider replacing the Wi-Fi module. |