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Johnson Industries (Shanghai) Co.,Ltd

1X & 1XE T3X & T-1XE3XE Service Manual

MATRIX

| Approval | Review | Editor |
|-----------------|--------|-----------|
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CHAPTER 1: SEARIL NUMBER LOCATION

1.1 CONSOLE OVERVIEW







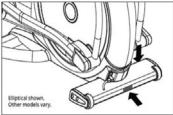
T3X T-1XE3XE

CHAPTER 1: SEARIL NUMBER LOCATION

1.2 serial location/model type apply list

SERIAL NUMBER LOCATIONS





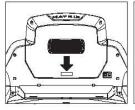
Before proceeding, find the serial numbers located on barcode stickers and enter them in the spaces provided below.

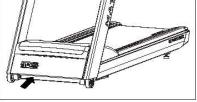
| CONSOLE SERIAL NUMBER | | | | | |
|-----------------------|-------------|--------------------------------------|--|--|--|
| FRAME SEF | RIAL NUMBER | 1 | | | |
| MODEL | | | | | |
| ☐ E1x | ☐ E1xe | MATRIX SUSPENSION ELLIPTICAL TRAINER | | | |
| □ R1x | ☐ R1xe | MATRIX RECUMBENT CYCLE | | | |
| □ U1x | ☐ U1xe | MATRIX UPRIGHT CYCLE | | | |

| Model | Console | Model ID |
|----------------|---------|----------|
| RECUMBENT (R) | | R1X/R1XE |
| UPRIGHT (U) | 1X/1XE | U1X/U1XE |
| ELLIPTICAL (E) | | E1X/E1XE |

CONSOLE GUIDE

SERIAL NUMBER LOCATIONS





Before proceeding, find the serial numbers located on barcode stickers and enter them in the spaces provided below.

CONSOLE SERIAL NUMBER

FRAME SERIAL NUMBER

MODEL



* Use the information above when calling for service.

| FRAME | Console | MODEL |
|--------|----------|-------|
| T-1X-F | T-1X-C | T1X |
| T-1X-F | T-1XE3XE | T1XE |
| T-3X-F | T-3X-C | T3X |
| T-3X-F | T-1XE3XE | T3XE |

2.1 1X CONSOLE DESCRIPTION



A) WORKOUT KEYS: Simple program view and selection buttons.

B) GO: One Touch Start.

C) ENTER: Confirm each program setting.

D) BACK: Go to previous program setting.

E) NUMBER KEYPAD: Enter program settings.

F) UP/DOWN LEVEL: Adjust resistance level.

G) UP/DOWN TIME: Adjust workout time.

H) STOP: Ends workout and shows workout summary data.

I) COOL DOWN: Puts the console into Cool Down mode.

J) TOGGLE DISPLAY: Cycles between 3 or 4 rows of workout information displayed in LED window.

The console will automatically cycle between the workout information if the Toggle Display button is pushed and held down for 3 seconds.

2.2 1XE CONSOLE DESCRIPTION



2.2 1XE CONSOLE DISPLAY DESCRPITON

The Matrix machine is inspected before it is packaged. It is shipped in two pieces: the base and the console. Carefully unpack the unit and dispose of the box material. Note: There is a thin protective sheet of clear plastic on the overlay of the console that should be removed before use.

The 1xe has a fully integrated touch screen display. All information required for workouts is explained on screen. Exploration of the interface is highly encouraged. The information explaining how to program for various workouts will give an explanation about the contents of each screen on the 1xe.

- A) GO: One Touch Start.
- B) STOP (displayed on-screen during workout): Ends workout and shows workout summary data.
- **C) COOL DOWN** (displayed on-screen during workout): Puts unit into Cool Down mode. Cool Down time is dependent on the workout

2.2 T3X CONSOLE DESCRIPTION

ENTERTAINMENT BUTTONS

K) TV POWER: Turns connected TV on or off.

L) VOLUME UP/DOWN: Adjusts the volume output through headphones.

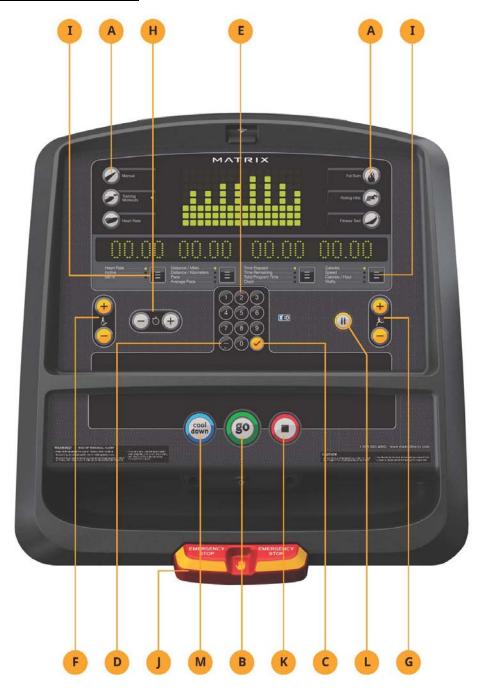
M) MUTE: Mutes sound.

N) CC: Turns closed captioning on or off.

O) CHANNEL UP/DOWN: Change channels on the integrated console TV.

P) LAST CHANNEL: Cycle between the current channel and the previous channel.

2.2 T3X CONSOLE DESCRIPTION



2.2 T3X CONSOLE DESCRIPTION

- A) WORKOUT KEYS: Simple program view and selection buttons. Press Fitness Test button to cycle through available tests.
- B) GO: One Touch Start.
- C) ENTER: To confirm each program setting.
- D) BACK: Go to previous program setting.
- E)NUMBER KEYPAD: Allows for easy number inputs.
- F) UP/DOWN INCLINE: Adjust incline and make program selections.
- G)UP/DOWN SPEED: Adjust speed and make program selections.
- H) UP/DOWN TIME: Adjust workout time.
- I) TOGGLE DISPLAY: Cycles between 3 rows of workout information displayed in LED window. The console will automatically cycle between the workout information if the Toggle Display button is pushed and held down for 3 seconds.
- J) EMERGENCY STOP / IMMOBILIZATION: To stop all functions and immobilize the unit. The emergency stop on this treadmill must be returned to its original position in order to allow normal operation of the unit.
- K) STOP: Ends workout and shows workout summary data.
- L) PAUSE: Pauses workout. Pause duration can be set in manager or engineering mode. M)

COOL DOWN: Puts treadmill into Cool Down mode. Cool Down time is dependent on the length of the workout.

2.3 T-3XE3XH CONSOLE DESCRIPTION



T1XE/T3XE CONSOLE DESCRIPTION

The Matrix machine is inspected before it is packaged. It is shipped in two pieces: the base and the console. Carefully unpack the unit and dispose of the box material. Note: There is a thin protective sheet of clear plastic on the overlay of the console that should be removed before use.

The T1xe/T3xe has a fully integrated touch screen display. All information required for workouts is explained on-screen. Exploration of the interface is highly encouraged. The information explaining how to program for various workouts will give an explanation about the contents of each screen on the T1xe/T3xe.

2.3 T3XE CONSOLE DESCRIPTION

- A) GO: One Touch Start.
- B) UP/DOWN INCLINE: Adjust incline and make program selections.
- C) UP/DOWN SPEED: Adjust speed and make program selections.
- D) PAUSE (displayed on-screen during workout): Pauses workout. Pause duration can be set in manager or engineering mode.

During pause, user can choose to stop or continue workout.

- E) COOL DOWN (displayed on-screen during workout): Puts treadmill into Cool Down mode. Cool Down time is dependent on the length of the workout.
- F) EMERGENCY STOP / IMMOBILIZATION: To stop all functions and immobilize the unit. The emergency stop on this treadmill must be returned to its original position in order to allow normal operation of the unit.
- G) VOLUME UP/DOWN: Adjusts the volume output through headphones.
- H) CHANNEL UP/DOWN: Allows for channel selection on the integrated console TV.
- I) HOME: Will take the user back to the home screen.
- J) LAST CHANNEL: Allows the user to cycle between the current channel and the previous channel they were viewing.
- K) DISPLAY MODE: Allows user to cycle through display modes.
- L) CC/MUTE: Mutes sound and turns closed captioning on or off.
- M) NUMBER KEYPAD: Allows for easy number inputs.

2.3 3XH CONSOLE DESCRIPTION



- A) GO/STOP: One touch start (displayed on-screen before workout). Press to end workout and show workout summary data.
- B) UP/DOWN INCLINE: Adjust incline during workout.
- C) UP/DOWN SPEED: Adjust speed during workout.
- D) PAUSE: Pauses workout. Pause duration can be set in manager or engineering mode.
- E) EMERGENCY STOP / IMMOBILIZATION: To stop all functions and immobilize the unit. The emergency stop on this treadmill must be returned to its original position in order to allow normal operation of the unit.
- F) NOTE: Entertainment features are not enabled in simple mode.

2.4 1XE Operation Description

1.GETTING STARTED

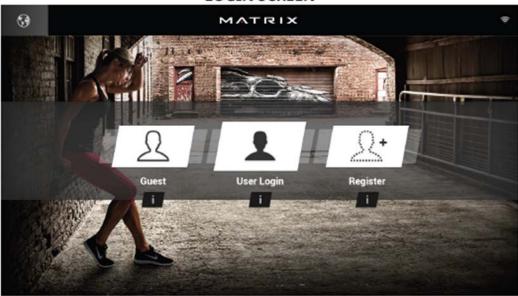
- 1)Touch the USER button to sign-in with your XID.
- 2)Touch the GUEST button to workout anonymously.
- 3)Touch the REGISTER button to create a new XID.
- 4) For help or more information, touch
- 5) To change language, touch

2.USER SIGN-IN

- 1) Enter your XID and touch
- 2) Enter your PASSCODE and touch

3.REGISTER A NEW USER

- 1) Don't have an xID account? Registration is easy.
- 2) Follow the on-screen prompts to create your free account.
- 3) Review your information and select the I ACCEPT THE TERMS AND CONDITIONS box to review the Terms and Conditions.
- 4) Touch to complete registration. Your account is now active and you are signed-in.



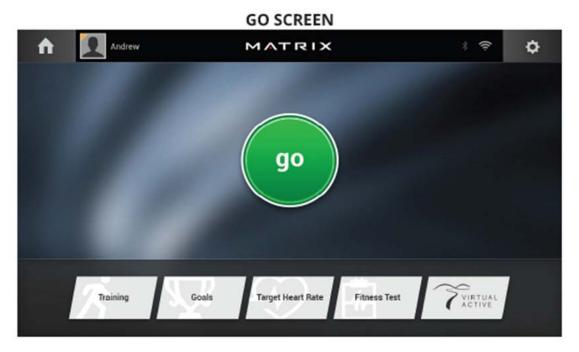
LOGIN SCREEN

4. LOGIN SCREEN

GO SCREEN

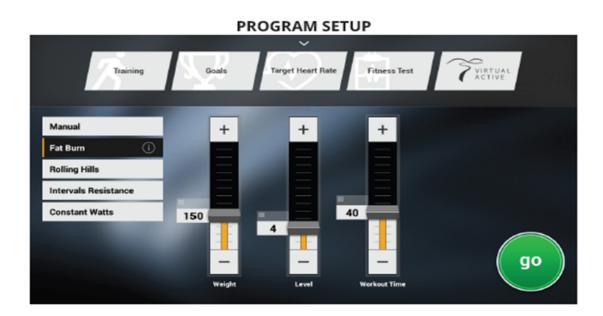
Touch GO to begin working out immediately. Or...

Touch the WORKOUT CATEGORY button of your choice to customize your workout.



5. PROGRAM SETUP

- 1) After selecting a WORKOUT CATEGORY button, select one of the PROGRAMS listed to the left. For more information on a selected program, touch .
- 2) Use the SLIDER CONTROLS to adjust your program settings.



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6. HOME SCREEN

HOME SCREEN



HOME SCREEN

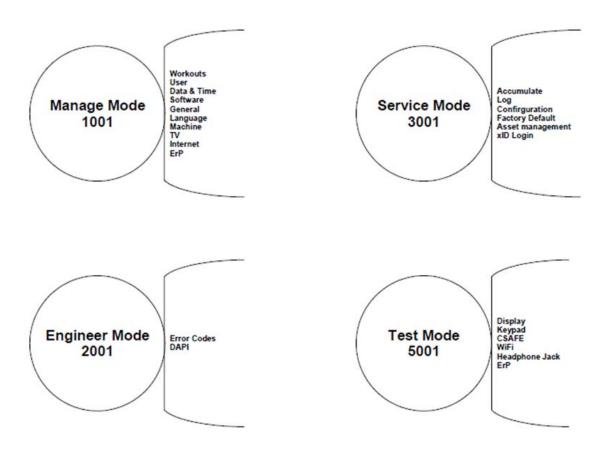
- The USERNAME or GUEST is shown in the upper left corner.
- Touch to change WORKOUT STATISTICS displayed at the bottom of the screen.
- Touch to adjust VOLUME, pair a BLUETOOTH device or to change AUDIO SOURCE (TV, My Media, Virtual Active, etc.).
- Touch \(\frac{1}{2}\)\(\Delta\) to increase or decrease the intensity level, speed or incline.
- Touch to use the keypad to set intensity level, speed or incline. Press to confirm change.
- Touch to change intensity level, speed or incline back to previous setting.
- Touch to temporarily pause your workout and touch ► to resume.
 NOTE: After resuming, speed, incline and intensity levels will be reset.
- While paused, touch to end workout.
- Touch —+ to increase or decrease the duration of your workout.
- Touch to enter cool down mode. Cool down lasts for a few minutes while reducing the workout intensity, allowing your body to recover from your workout.
- Touch to lock the screen in order to prevent accidental screen touches from being implemented. Touch it again to unlock the screen and allow screen touches.

3.1 Special Mode Browse

| | Mode name | Method | Programmer List |
|--------------|---------------|-----------------------|------------------------|
| | Manage mode | "\" + "1001" + "\" | |
| | Engineer mode | "√" + "2 0 0 1" + "√" | |
| special mode | Service mode | "√" + "3001" + "√" | Refer to below picture |
| | Test mode | "\" + "5001" + "\" | |
| | | | |

Notes: Press "+/-" to scroll programmer menu

Press " $\sqrt{\ }$ " to refer more details about programmer, press " \leftarrow " to return.



3.2 Manage Mode:

| Category | Name | Default | Range |
|------------|---------------------------|----------------------------------|--------------------------------------|
| | Maximum Time | 60 | 4-99 |
| | Default Time | 20 | 4-max |
| Workout | Default level | 1 | 1-10 |
| | Pause Time | 5:00 | 00:30/1:00/2:00/3:00/4:00/5:00 |
| | age | 30 | 10-100 |
| | weight | 150lb/68kg | 50lb/23kg-400lb/182kg |
| User | Default height | 72/183(inch/cm, 1inch=2.54cm) | 36/91-96/244 |
| | gender | male | Male/female |
| | Date | 30 | 10-100 |
| Date &Time | Time | 150lb/68kg | 50lb/23kg-400lb/182kg |
| | Time Zone | 21 | 1-78 |
| speed | Unit | Standard | Standard/Metric |
| software | version | | UCB/LCB/Language/wifi/bootloader |
| Sollware | Update | | UCB/LCB/Language |
| General | Accumulate Distance | 0 | 0-99999 |
| General | Accumulate Time | 0 | 0-99999 |
| Language | Default Language | English | 12 language |
| Language | Erase EEPROM | | Notes: Erase language data in EEPROM |
| | Туре | | Select the right one |
| | Serial Numberconsoleframe | Input the right serial number | Console/Frame |
| | Out of Order | off | On/off |
| | Beeper | on | On/off |
| Machine | Headphone Jack | enable | Enable/Disable |
| | Notification | 30000 | 1000~1000000 |
| | USB Port | | /B: |
| | protection | Enable | Enable/Disable |
| | Keypad | Enable | Facility (Direction |
| | Stuck Check | Enable | Enable/Disable |
| | Notification | | Enable/Disable |

3.2 Manage Mode:

| Category | Name | Default | Range |
|----------|-------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Power | off | ON/OFF OFF:Turn off TV Power after reset |
| | Input Source | off | OFF/TV/PCTV/Remote TV |
| TV | Default Volume | | a. input default (DF: 15/Range 1~15) b. Max (DF: 32/ Range: 1~32) c. Output Default (DF: 13/Range: 1~Max) Remote TV support a/b/c item, others only support |
| | Disable/Enable | | Disable/Enable |
| | MAC ID | Shows the actual MAC address | |
| | IP | Shows the actual IP address | |
| Internet | AP Mode | OFF | ON/OFF |
| | Export setting to USB | | Export WiFi setting to USB |
| | Import setting from USB | | Import WiFi setting to USB |
| | Reset | | Reset internet |
| Erp | | off | Off~30 |

3.3 Engineer Mode

| Category | Name | Default | Range |
|-------------|--------|------------|---------------------------|
| Error codes | | enable | Enable/Disable |
| DAPI | server | production | Dev/QA/Staging/Production |
| DAPI | SSL | on | On/off |

3.4 Service Mode:

| Category | Name | Default | Range |
|----------------------|-----------------|---------|------------------------------|
| Accumulate | Distance | | 0~99999Mile/Km |
| | Time | | 0~99999Hours |
| | Error | | |
| Log | display | none | Error0~Error10/None |
| | reset | | |
| | Headphone Jack | | |
| | Sensor | | 0~999999 |
| | Insert Counts | | clear log in times |
| | reset | | |
| configuration | Export to USB | | |
| | Import from USB | | |
| Factory De- fault | Reset | | Notes: factory default reset |
| Asset management | Disable/Enable | Disable | Disable/Enable |
| | Club ID | | 63 |
| xID Login | Disable/Enable | Disable | Disable/Enable |

3.5 Test Mode:

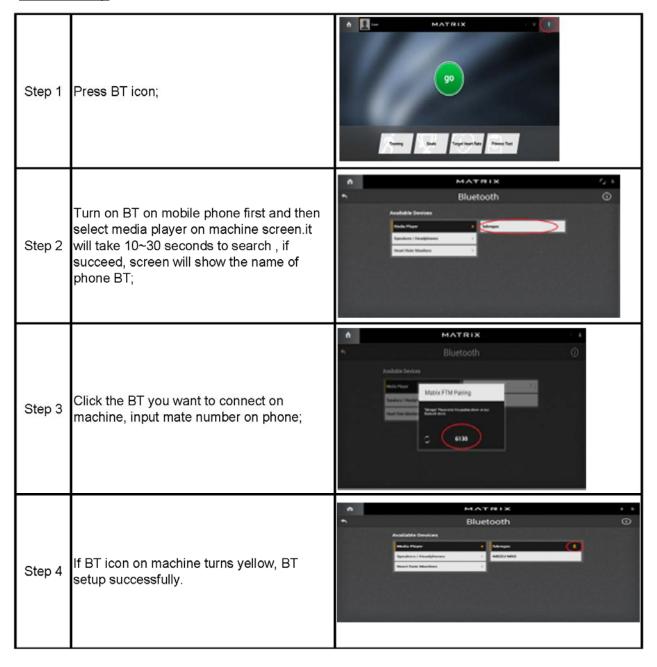
| Category | Test Procedure |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display | Press "√" to test display, press"←" to back, press"+/-" to scroll menu |
| keypad | Press "√" to test the keypad, press"←" to back, press"+/-" to scroll menu |
| | 1. press " $\sqrt{"}$ +"5 0 0 1"+" $\sqrt{"}$ in turn to enter test mode. |
| CSAFE | 2. press "+/-" to select CSAFE. |
| | 3. press "√" to start testing, display will show "CSAFE OK or FAIL" |
| | 1. press " $\sqrt{"}$ +"5 0 0 1"+" $\sqrt{"}$ in turn to enter test mode. |
| WIFI | 2. press "+/-" to select wifi. |
| | 3. Press " $\sqrt{\ }$ " to test the WIFI hardware. |
| Headphone Jack | Test Headphone Jack hardware |
| | Auto/5/10/30/60(seconds) |
| ERP | ErP testing only work in testing mode, it will not save and not work when the console out of testing mode. Auto-the machine will enter ErP mode after press"√". |

4.1 Initial setup:

Press" $\sqrt{"}$ +"2 0 0 1" +" $\sqrt{"}$ in turn to enter engineer mode, then select "Restore Factory Defaults" for setup

| Step 1 | Select Language | EMONTHY PERSON Emple Lead Term Emple Lead Englan Emple Accept Columb Transpired Indiget France Indiget France Indiget France Indiget France Indiget France |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 2 | Machine Selection: base on MCB and frame | Console Selection |
| Step 3 | Features selection | Features Factures Asset Management Markeyl Tracking |
| Step 4 | Network Setup | MATINIX Network Setup Assertion: Operating Assertion |
| Step 5 | Machine Information First column: Facility ID | Machine Information: Machine Information: |
| Step 6 | Date & Time Setup $ \begin{tabular}{ll} Complete & time Setup & and then Select $\sqrt{,}$ back to user screen, initial Setup finished. \end{tabular} $ | Date And Time Setup Date And |

4.2 BT setup



4.3 VA Setup

Be sure memory sticker insert in console

| Step 1 | Select "virtual active"; | MATRIX |
|--------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 2 | Click "→"; | Training Bord Torger board face First and Active Street Active Street Active Control of the Active Control |
| Step 3 | Click "go"; | Auckland and Wellington Run ① |
| Step 4 | If succeed, you will see virtual VA; | Central Business District Acking A Austral And Johns |

4.4 Software updating

| 1 | save the newest software in root directory of U disk | |
|---|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | insert USB into USB | |
| 2 | In user screen, press"2 0 0 1" and select"√" to Enter engineer mode | |
| | Select "update" and "update from USB" in turn; | MATRIX Service Mode |
| 3 | You will see available software, please select the one you need | The state of the s |
| | Software updating start. | Commiss Mande Constal Consta |
| | When it finished, screen will shows " turn off power". | |
| 4 | Do as prompts, take U disk away. | branker to the second s |

4.5 Special Mode Browse

| | Name | Method | Programmer List |
|------|---------------|-----------------------|---------------------|
| | Manage mode | "√" + "1001" + "√" | |
| Mode | Engineer mode | "√" + "2 0 0 1" + "√" | Refer to below list |
| | Service mode | "\" + "3 0 0 1" + "\" | |

| Manage Mode | Engineer Mode | Service Mode |
|------------------|------------------|------------------|
| General | General | General |
| Workout | Workout | Workout |
| Update | Update | Update |
| Network setup | Network setup | Network setup |
| Asset Management | Asset Management | Asset Management |
| Weather | Weather | Weather |
| TV | TV | TV |
| Application | Application | Application |
| Calibration | Calibration | Calibration |
| Hardware | Hardware | Hardware |
| Service | Service | Management |
| | Errors | Service |
| | | Errors |

4.6 General

Manager Mode (the same with service mode)

| Category | Name | Default | Range | Units | Comments |
|----------|---------------------------|----------|-------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|
| | Screen timeout | 30 | 15,30,60,90,1 20,never | seconds | Dropdown list affects those screen that go to/from the welcome screen (go screen, workout summary screen etc.) |
| | Accumulated Time | 0.00 | | Hours | Read Only |
| General | Accumulated Distance 0.00 | | | Miles/ KM | Read Only |
| | Time Zone | Central | | | Values are scrollable from a |
| | Date | RTC Date | YY: 2000- 2099 MM:01-12 DD:01-31 | | Enter using keypad (Birthday keypad). |

Manager Mode (the same with service mode)

| Category | Name | Default | Range | Units | Comments |
|----------|----------------------|-------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------|
| | Time | RTC Time | 00-23:00-59:00-59 | 12/ 24 Hours | Read Only |
| | Time Format | 12 Hour | 12 Hour, 24 Hour | | |
| | Language Setup | English (U.S.) | See Languages Table | | Scrollable list. |
| General | Software Version | | Software Updater, Native Libraries, Main Apps, 3rd Par- ty Apps, Media Files, Sprint 8, Key- board Apps | Major Mi- nor Build Revision | Read Only. Current soft- ware, pulled from the up- date package manifest. |
| | Firmware Versions | | OS Version (from Manufacturer), IO Version, LCB Ver- sion | | Read Only. Current soft- ware, pulled from the hardware. |

Engineer Mode

| Category | Name | Model | Default | Range | Units | Comments |
|----------|-------------------------|-------|---------|--------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | Screen Timeout | TAEUR | 120 | 15, 30, 60, 90, 120, Never | Seconds | Dropdown list. Affects those screens that go to/from the Welcome Screen (Go Screen, Workout Summary Screen, etc.). The exceptions to this are Machine Settings, Service Mode and Engineering Mode which do not timeout. |
| | Accumulated Time | TAEUR | 0.00 | 0.00 - 596523.00 | Hours | Can be edited. Includes a button labeled 'Reset' that resets the time to 0. |
| | Accumulated Distance | TAEUR | 0.00 | 0.00 - 1959556.00 Miles 0 .00 - 3153600.00 Km | Miles/ KM | Can be edited. Includes a button labeled 'Reset' that resets the distance to 0. |

Engineer Mode

| | | Model | | | | |
|----------|------------------------------------|-------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category | Name | | Default | Range | Units | Comments |
| | Serial Number - Con- sole | TAEUR | (for Console) + Pre- fix (Type) + Derivative Model (A-Z, AA, etc.) + YYMMXXX XX | derivative Mod- el (A-Z, AA, etc.) + YYMMXXXXX | Consoles | Can be edited. The software will only be able to provide the 'C' and prefix based on the detected console, the user must enter the rest. This is then validated by DAPI. |
| | Serial Number - Frame | TAEUR | | A30, A50, U30, U50, R30, R50, E30, E50, TF30, TF50, T50, T70 | Frames | Can be edited. The software will only be able to provide the 'F' and prefix based on the frame selected, the user must enter the rest. This is then validated by DAPI. |
| General | Demo Mode | TAEUR | No Check | Check/No Check | | Sets the console into a demo mode that allows the console to emulate the MCB/LCB and ignore errors so that the console software can run. Sets RPM to 30. |
| | Show Setup Wizard | TAEUR | No Check | Check/No Check | | Triggers the First Time Setup Wizard to run on the next boot up. |
| | Time Zone | TAEUR | Central Time | | - | Values are scrollable from a drop down list |
| | Date | TAEUR | RTC Date | YY: 2000-2099 MM:01-12 DD:01-31 | | Enter using keypad (Birthday keypad). |
| | Time | TAEUR | RTC Time | 00-23:00-59:00- 59 | 12/ 24 Hours | Uses keypad from First Time Setup. |
| | Time Format | TAEUR | 12 Hour | 12 Hour, 24 Hour | | |

Engineer Mode

| Category | Name | Model | Default | Range | Units | Comments |
|----------|----------------------|-------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|
| | Language Setup | TAEUR | English (U.S.) | See Languages Table | | Scrollable list. |
| General | Software Version | TAEUR | | Software Installer, Generations Apps, Native Libraries, OS, Sprint 8 Media, Landmarks, Demo Video, Third Party Native Libraries, Third Party Apps, Keyboard Apps, Touch Panel, LCM, LCB, IO. | Major Minor Build Revi- sion | Read Only. Current software, pulled from the update package manifest. |
| | Firmware Versions | TAEUR | | OS Version (from Manufac- turer), IO Ver- sion, LCM Ver- sion, LCB- | | Read Only. Current software, pulled from the hardware. |

4.7 Workout

| Category | Name | Model | Default | Range | Units | Comments |
|----------|----------------------------------|-------|---------------------|---------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Keyboard Disable Threshold | Т | 2.0MPH/3.2K PH | Machine Mini- mum 4.0MPH/6.4KPH | MPH/KPH | Determines the speed at which the keyboard is disabled on a treadmill. Machine minimum will differ by frame from 0.1MPH (.016KPH) to 0.5MPH (0.8KPH). |
| | Maximum Workout Time | TAEUR | 120 | 10-120 | minutes | |
| | Maximum Workout Cal- ories | TAEUR | 1000 | 50-10000 | calories | For goal workouts. |
| | Maximum Workout Dis- | TAEUR | 31.0mile/50.0 Km | (AEUR) | Miles/Km | For goal workouts. |
| workout | tance | | | 1.0-62.0Mile | | |
| | | | | /1.0-100.0Km | | |
| | | | | (T) | | |
| | | | | 1.0-31.0Mile | | |
| | | | | /1.0-50.0Km | | |
| | Pause Time | TAEUR | 5 | 1-10 | minutes | Note: climbmill should start at level 1when resuming from pause mode. This is similar to the treadmill start- ing at the machine |

4.7 Workout

| Category | Name | Model | Default | Range | Units | Comments |
|----------|--------------------------------------------|-----------|---------------------|---------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Maximum Speed | Т | 12.5MPH/20 .0KPH | 3.1-Machine Max MPH/5.0- Machine Max KPH | MPH/ KPH | For commercial Machine Max=15.0MPH/24.1 KPH. For retail machine Max=12.5MPH/20.1 KPH |
| workout | Start Speed | Т | Machine Minimum | Machine Mini- mum-1.4MPH/ 2.3KPHMPH | MPH/ KPH | Machine minimum will depend on infor- mation from the system engineer. Can be 0.1- 0.5MPH/0.1- 0.8KPH. This sets the default speed during workout set- up and the speed the treadmill will start at if the user presses the 'Go' quick key. |
| | Maximum Incline | ТА | (T)15 (A)100 | (T)1.0-15.0 (A)1-100 | (T)% Grade (A)% | |
| | Cool Down Time | TAEU R | 5 | 1-20 | Minutes | Maximum times a user can increase the cool down time = Maximum Cool Down Adjustment Time - Cool Down Time |
| | Maximum Cool Down Adjustment Time | TAEU R | 5 | 1-20 | Minutes | Maximum times a user can increase the cool down time = Maximum Cool Down Adjustment Time - Cool Down Time |





4.8 Setup Default

| Category | Name | Default | Range | Units | Comments |
|--------------------|--------------------------------|-------------------|---------------------------|---------------|---------------------------------------------------------------|
| | Age | 30 | 14-99 | Years | |
| | | | (THUR)100-400lbs/40-182kg | | |
| | Weight | 150lbs/ 68kg | (AE)100-400lbs/40-182kg | lbs/kg | |
| | | | (CS) 100-400lbs/40-182kg | | |
| | Gender | male | Male/female | | |
| Setup De- fault | Default workout time | 30 | 5-max | Minutes | For Max See Workout Category |
| | Default workout calories | 300 | 50-max | Calo- ries | For Max See Workout Category For goal based workout. |
| | Default workout distance | 3.0mile/ 5.0km | 0.6-max(mile and km) | Miles/ Km | For Max See Workout Category For goal based workout. |

4.9 Update

| Category | Name | Default | Range | Units | Comments |
|----------|---------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Update | Update From USB | Update From USB/ Install | | Check a connected USB drive for updates. If updates are found they will be listed under Available Updates and the button will display Install. |
| | Check For Up- dates | Check For Up- dates | Check For Up- dates/Install | | Check DAPI server for updates. If updates are found they will be listed under Available Updates and the button will display Install. |
| Update | Available Updates | | Software Installer, Generations Apps, Native Libraries, OS, Sprint 8 Me- dia, Landmarks, Demo Video, Third Party Native Li- braries, Third Party Apps, Keyboard Apps, Touch Pan- el, LCM, LCB, IO. | Major. Minor .Build. Revi- sion | List packages that have up- dates available and their ver- sion |

4.10 Network Setup

| Category | Name | Default | Range | Units | Comments |
|------------------|------------------------|-----------------------|----------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Network Setup | WiFi Mac Address | Hardware Specified | 0.0.0.0.0.0 - 255.255.255. 255.255.255 | Byte.Byte.Byte.Byte.B yte.ByteIn Hex | Mac address is polled from the installed hard- ware.Read Only, should not show up if not con- nected to Wifi. |
| | Wifi Setup | | | | Goes to the Wifi setup page, same behavior as TV tab. |

4.11 Asset Management

| Category | Name | Range | Units | Comments | |
|-------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Facility ID | 0 | 0-10000 | Will only be available(visible) if asset management and/or workout tracking are checked. Editable and validated by DAPI. If incorrect a popup should appear and and the text box should outlined in red, and the text should be red and there should be an error symbol next to the box. | |
| | Serial number- console | comment promition promition | | The software will only be able to provide the c' and prefix base on the detected console, the user must enter the rest. Editable and validated by DAPI. If incorrect a popup should appear and and the text box should outlined in red, and the text should be red and | |
| | | selected model) | derivative Model(A-Z,AA etc.)+YYMMXXXX | there should be an error symbol next to the box. | |
| Asset Manageme nt | Serial number- frame | Either what was entered at first time setup or F(for frame)+prefix(type)(depends on the detected control board and selected model) | | The software will only be able to provide the 'F' and prefix base on the detected frame, the user must enter the rest. Editable and validated by DAPI. If incorrect a popup should appear and and the text box should outlined in red, and the text should be red and there should be an error symbol next to the box. | |
| | Upload custom theme | | Theme:welcome,workout,logo,c olor | Upload a theme by grabbing the first picture from each of the folders labeled welcome, workout, logoand color(don't need every folder though, missing folders means that part of theme not change) or an archived file named generationtheme.zip containing the folders. these are in the root of USB.allow user to set welcome, workout ,logo and /or go +summary screen(color) of the console. Dimensions must be correct or the message should be'no valid files found' | |

4.12 Weather

| <u>Category</u> | Name | Default | Range | Units | Comments |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Weather Note: Units (Fahrenheit/ Imperial vs. Celsius/Metric) are determined by lan- | Ena- ble Alerts | Check | Check/ No Check | | If it has a weather alert from the website, the alert mark will be in red on the workout screen. |
| guage - region. If a user authenticates using xID, the units will respect the preferred units as set in the user's profile settings. If guest user, the setting in service mode should be respected. | De- fault City | Current Location which is determined by either the location stored in the console or the IP Address of the console if a location has not been set. | | GPS Coordinates Note: May or may not display a location other than GPS coordinates. This is an issue with Bing as opposed to the web app. | Search by touching and dragging on the map. Double touch a spot on the map to set as your location. |

4.13 TV

| Category | Name | Default | Range | Units | Comments |
|---------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Device | - | Currently it will only be Aver Media H837 | ı | Read Only. Options only available when Tuner is plugged in and has a coax connection. What shows is dependent on what tuner is connected. |
| TV(Coaxial ATSC / DVB- T) | Source Selection | ANALOG_AIR, ATSC ANALOG_AIR, ATSC (depends on country selected). ANALOG_AIR, ATSC ATSC ATSC | ANALOG_AIR, ANALOG_CABLE; ATSC, ATSC_QAM, ANALOG_AIR, ANALOG_CABLE, ATSC_QAM_ANALOG , ATSC_HRC, ATSC_HRC_ANALOG , ATSC_IRC_ANALOG | | Selection available is dependent on what country is selected and what the tuner detects as available |
| | Country | U.S.A. | | Countrie s | Determines sources available to select from. |
| TV(Coaxial ATSC/ DVB- | Default Channel | After channel scan this should the first channel in the list. If there is no channel scan yet then default to 3. | 1.00-1000.00 | Channels | |
| Τ) | Channel Button Setup | Name given by tuner after channel scan. | Name, Clear All | | Allows the name of each channel to be specified by the user. E.g., instead of '10 - Channel 10' it can be '10 - HBO'. Name can only be up to 12 characters. 'Clear All' resets all names to default. |

<u>4.13 TV</u>

| TV (Coaxial ISDB-T/ DVB- T2/C/S) | TV Channel Setup (Control | | | View input on mini screen. | The tuners handle all processing and store their own configuration, console just sends commands. These tuners all have the same control scheme. |
|----------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12/0/0) | Default Channel | If possible should be first channel available from channel scan. Otherwise should default to 3. | 1.00-1000.00 | Channels | |
| TV(IPTV (Without Set | IPTV Channel | None/Channel 1 (next | Add ('+') Per Channel: Source, Name, Channel Number For | | Source = URL (IP Address) Name = Text String Channel Number = Position in Channel List Edit = Change Source + Name of Channel Delete = Delete Channel Info Add = Add Channel Info |
| Top Box)) | Set Channel channel number in list) | | Existing Selected Channels: Delete, Edit | | When adding a channel the Name and Source fields need to have input before being able to confirm to add/update the channel. User can cancel out of adding/updating the channel at any time. |
| | Default Channel | 3 | 1.00-10000.00 | Channels | If the entered channel does not exist the first channel that is available will be the default. If no channels are available then the playback area will remain blank. |
| TV(IPTV (Without Set Top Box)) | Interface Metric | 5 | 0-999 | | Used to ensure that internet traffic goes through Wifi when IPTV is being used and Wifi is meant to be used for internet. Specifies the route the system should take to reach the internet. By default Wifi's metric is 1 so to have internet through Ethernet set this to 0. |

4.14 Applications

| Category | Name | Default | Range | Units | Comments |
|-------------------|---------------------------|-------------------------------|-------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applica- tions | Appli- cation Setup | Show all available apps | Move, Hide/ Make Inac- tive, Locked | | Displays a grid of the app buttons. Tapping and holding down on an app will make it movable to other spots (other apps will shift automatically). This app can be moved to the 'Inactive' column in which case it will not appear on the run screen. If an app button is dark with a padlock it is locked and cannot be moved. |

4.15 Calibration

| Category | Name | Default | Range | Units | Comments |
|-------------|----------------|------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calibration | Run Machine | Run Ma- chine | Run Machine, Stop Machine (button alter- nates between the two) | EUR: Time, RPM, Calories, Distance, Heart Rate, Resistance, Resistance Slider. A: Time, RPM, Calories, Distance, Heart Rate, Resistance, Incline, Resistance Slider, Incline Slider. T: Time, Incline, Speed, Calories, Distance, Heart Rate, Incline Slider, Speed Slider | Runs a 'workout' on a machine and on a treadmill disables Tread Sense. Meant for testing and calibrating the hardware. What can be adjusted and what stats are displayed changes to match the frame being tested. Should allow for the testing of the frames hardware buttons, heart rate grips and 5MHz heart rate detector. |

4.16 Hardware

| Category | Name | Default | Range | Units | Comments |
|----------|------------------------------|-------------|---------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ErP | No Check | Check/No Check 1-60 | Minutes | Enables/Disables ErP which puts the console in a low power mode after a certain amount of time determined by ErP Timeout. The LMC keys need to be pressed to wake up the console. Amount of time after which the console |
| Hardware | Backlight Bright- ness | 100 | | | enters a low power mode. Set the brightness of the screen. Note that plugged in the brightness will default to 100%, but on self-power will follow the self-power algorithm (40% below 50 RPM, 80% at or above 50 RPM) |
| | Master Volume | 5 | 0-30 | | All apps have their volume maxed, this sets the system-wide volume. The volume matches the DQE standard. Does not affect the system beep volume. |

4.17 Service

| Category | Nam e | De- fault | Range | Units | Comments |
|----------|-------------------------|--------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Service | Ser- vice History | | - | Battery, Belt: Drive, Belt: Generator/Flywheel, Belt: Running and Flip Deck, Belt: Running and New Deck, Chain: Drive, Chain: Stair, Console Cable, Reset Headphone Accumulators, Reset Accumulated Time, Reset Accumulated Distance, Reset Total Floors, Reset Factory Defaults | Generates a service entry from the service items listed in a log that is kept on the machine and sent to DAPI (for things like Asset Management). Tap Create to create the entry for the selected Service Type. |

4.18 Errors

You will also see errors in engineering mode and service mode.

| Category | Name | Default | Range | Units | Comments |
|----------|--------------|---------|-----------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Errors | Error Log | - | Clear All | Error code, first occur- rence, last occurrence | Error history that can be cleared with the clear all button. Lists the error code that experienced by the console, the first and the last occurrence and that error code and how many times it has happened since the first occurrence. |

4.19 Management

| Category | Name | Default | Range | Units | Comments |
|------------|--------------------------------|---------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Management | Import Settings from USB | | | | Import a system config settings xml file from an inserted USB drive and update the console's settings. See the Export Settings Page for a list of settings that are imported/exported. |
| | Export Settings to USB | | | | Export a system config settings xml file to an inserted USB drive with the console's settings. See the Export Settings Page for a list of settings that are imported/exported. |
| | Export Settings | | | | Console broadcasts its settings over the network it is connected to. All other consoles on the same network are automatically listening for a broadcast and will import the settings and update themselves. See the Export Settings Page for a list of settings that are imported/exported. |

4.20 Console screen calibration (T1XE3XE-06)-TM708

<u>1.Enter "8</u> \rightarrow 6 \rightarrow 8 \rightarrow 2 \rightarrow 4",then press 'enter' again. Enter the screen calibration



2. Follow the instructions on the screen. Press the cross symbol 3 seconds until showing up the 'OK'



1



2



3



4



5

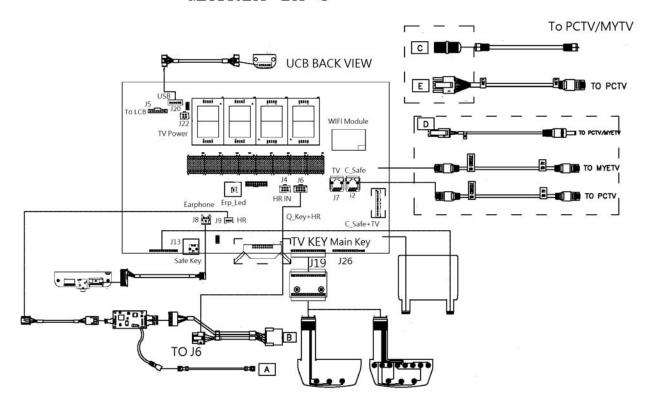


3. Finish the screen calibration. Back to main interface.

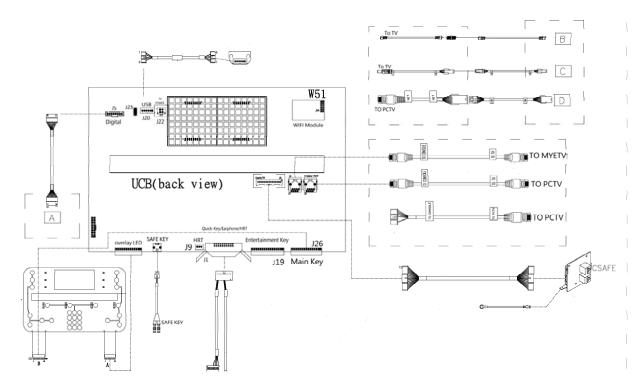
CHAPTER 5: Troubleshooting

- 5.1 Electrical Diagram
- 1. 1X Electrical Diagram

MATRIX 1X-C

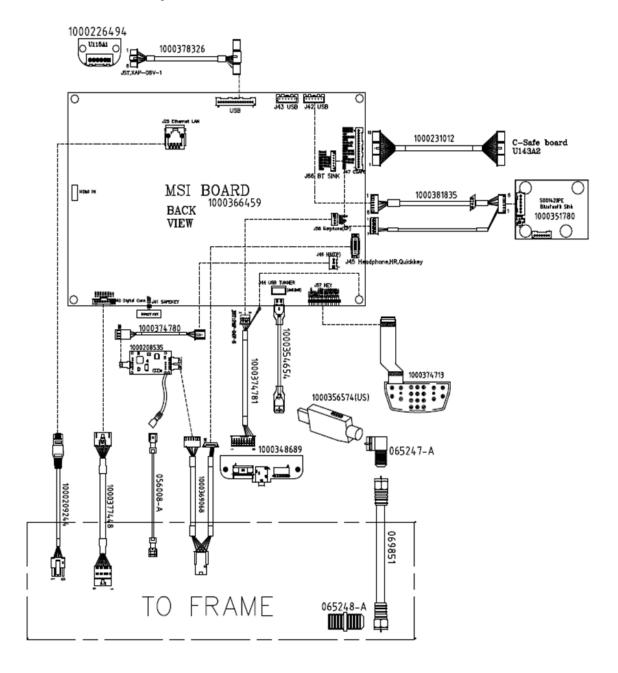


2. 3X Electrical Diagram



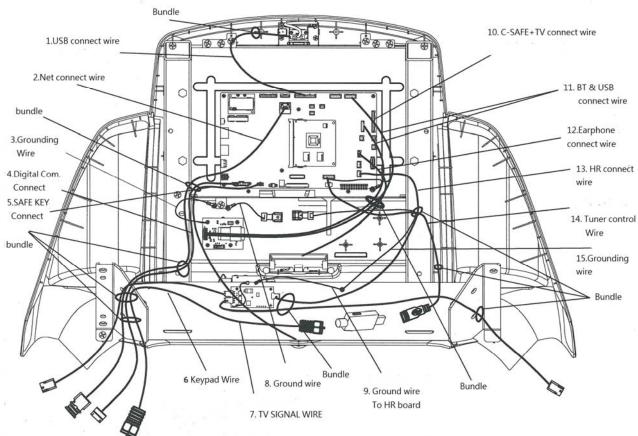
5.1 Electrical Diagram

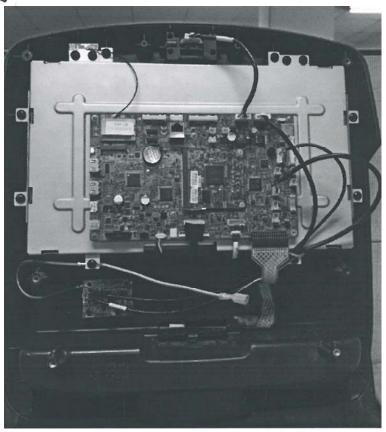
3. T-1XE3XE Electrical Diagram



5.1 Electrical Diagram

4. T1XE3XE-07 (TM708) Connection Diagram



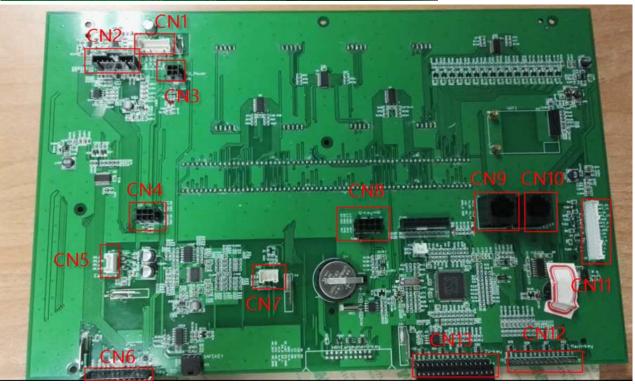


5.2 Ports Description

1X UCB PORTS DESCRIPTION



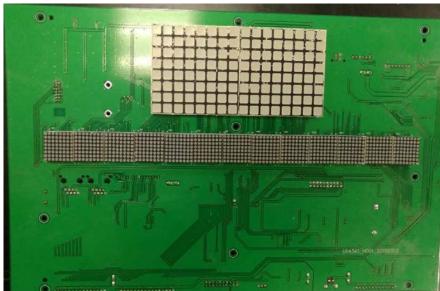
1X UCB Front side



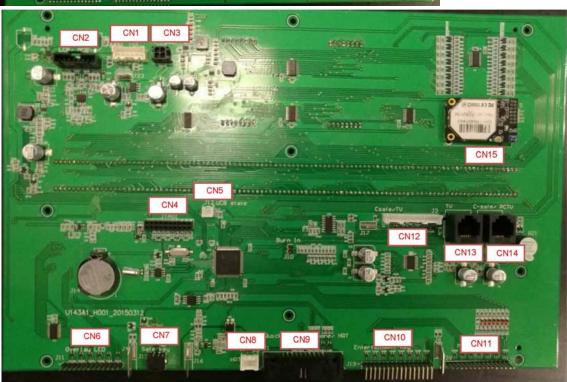
| CN1 | USB | CN8 | quick key connector for Clibmill |
|-----|-------------------|------|----------------------------------|
| CN2 | Interface digital | CN9 | MYETV |
| CN3 | TV power | CN10 | CSAFE |
| CN4 | Heart rate | CN11 | TV/Csafe/SPK |
| CN5 | Earphone | CN12 | Main key |
| CN6 | Key LED | CN13 | TV key |
| CN7 | MATRIX heart | | |

5.2 Ports Description

T-3X UCB PORTS DESCRIPTION



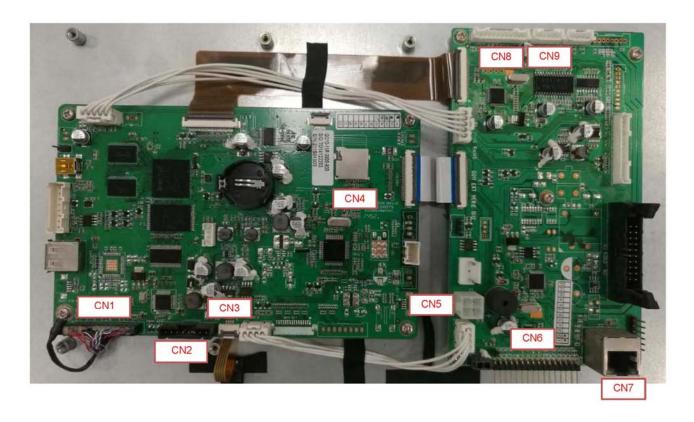
3X UCB Front side



| CN1 | USB | CN8 | Heart Rate |
|-----|-------------------|------|------------------------|
| CN2 | Interface digital | CN9 | Quick Key/Earphone/HRT |
| CN3 | TV power | CN10 | TV Keypad |
| CN4 | JTAG1 | CN11 | Main Key |
| CN5 | UCB STATUS | CN12 | C-SAFE/TV |
| CN6 | Overlay LED | CN13 | TV |
| CN7 | SAFEKEY | CN14 | C-SAFE/PCTV |

5.2 Ports Description

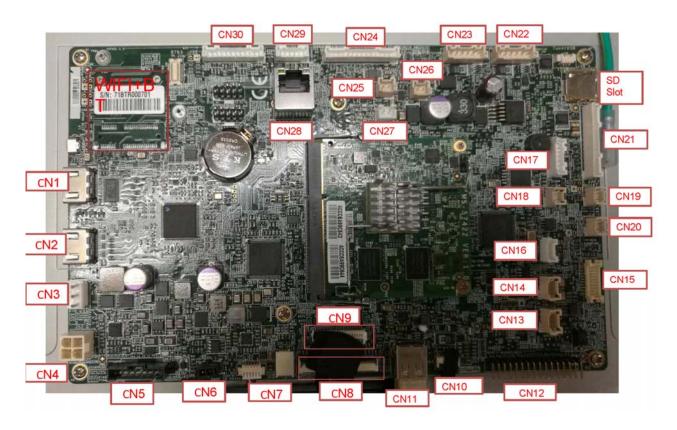
T-1XE3XE-06-C UCB PORTS DE-



| CN1 | To screen display | CN6 | Main Key |
|-----|-------------------|-----|-----------|
| CN2 | То МСВ | CN7 | NET Port |
| CN3 | To Touch Panel | CN8 | Tuner IN |
| CN4 | SD Slot | CN9 | Tuner OUT |
| CN5 | TV Power | | |

5.2 Ports Description

T-1XE3XE-07-C UCB PORTS DESCRIPTION



| CN1 | HDMI Input | CN12 | TV key | CN23 | USB |
|------|---------------------|------|------------------------------------|------|----------------|
| CN2 | HDMI Output | CN13 | Heart Rate | CN24 | lpod/lphone |
| CN3 | 12v Output | CN14 | IR Port | CN25 | SPR-L |
| CN4 | 12v Input | CN15 | Headphone HR Port Quick keys | CN26 | SPR-R |
| CN5 | Console wire | CN16 | Headphone | CN27 | Fan |
| CN6 | Safety key | CN17 | BT Port | CN28 | Internet port |
| CN7 | Back light | CN18 | | CN29 | TV Tuner Ypbpr |
| CN8 | 10.1inch panel | CN19 | E stop | CN30 | TV Tuner CVBS |
| CN9 | 15.6inch panel | CN20 | | | |
| CN10 | USB Dongle TV Tuner | CN21 | BT Port | | |
| CN11 | Touch Screen | CN22 | USB | | |

5.3 Error Code List

1. Speed Errors

| Error code | Description | class level |
|------------|---------------------------------------------------------------------------------------------------|-------------|
| 0040 | Roller RPM sensor -no speed response of roller. | В |
| 0041 | After setting speed on console, speed cannot reach the target in 60 seconds. (Speed too low) | В |
| 0042 | After setting speed on console, speed cannot reach the target in 60 seconds. (Speed too high) | В |
| 0043 | RPM read from RS232 mismatch RPM measured from the speed/RPM line – only used for AC motors (DCI) | В |
| 0044 | actual speed is higher than commanded speed by limit and is accelerating (DCI) | В |
| 0045 | Automation speed up and speed down mode fail | В |
| 00A0 | Fail to rectify speeds | С |
| 00A1 | No response of motor speed sensor (keep time for LCB default) | С |

2.MCB Errors

| Error code | Description | class level |
|------------|----------------------------------------------------------|-------------|
| 0201 | LCB battery low voltage (Battery voltage <11.2V) | Α |
| 0240 | Low AC power input voltage | В |
| 0241 | Low DC bus voltage of motor driver | В |
| 0242 | LCB over temperature | В |
| 0243 | Soft start circuit of DC bus fail | В |
| 0244 | ECB sensor fail | В |
| 0245 | ECB calibration fail | В |
| 0246 | ECB over current | В |
| 0247 | LCB fail | В |
| 0248 | Battery disconnection or fail | В |
| 0249 | LCB Fan fail | В |
| 024A | Change to 02C2. | В |
| 024B | On step sensor error | В |
| 024C | Temperature sensor abnormal. | В |
| 024D | Touch the control zone over 60 seconds | В |
| 024E | Touch frame IR sensor over 60 seconds | В |
| 029F | An error that a generic class "B" error with the DCI MCB | В |
| 02A0 | Encoder disconnection or fail | С |
| 02A1 | Over AC power input voltage | С |

5.4 Error Code List

2.MCB Errors

| Error code | Description | class level |
|------------|----------------------------------------------------------------------|-------------|
| 02A2 | Over DC bus voltage | С |
| 02A3 | Over voltage limited in DC bus | С |
| 02A4 | U phase current sensor and circuit fail | С |
| 02A5 | V phase current sensor and circuit fail | С |
| 02A6 | W phase current sensor and circuit fail | С |
| 02A7 | over I rms of phase current of motor | С |
| 02A8 | Inverter circuit of motor driver fail (MOSFET, IGBT) | С |
| 02AA | Main motor over limited current | С |
| 02AB | LCB type setting fault | С |
| 02AC | Main motor out of control (speed too high) | С |
| 02AD | LCB over temperature | С |
| 02B2 | Safe key action response | С |
| 02B3 | Machine Type Error | С |
| 02B4 | Resistance Type Error | С |
| 02B5 | Inverter sensor the normal rated current over 150%, can hold 60 sec. | С |
| 02B6 | Speed up have over current. (Software discover) | С |
| 02B7 | Speed down have over current. (Software discover) | С |
| 02B8 | Running status over current. (Software discover) | С |
| 02B9 | The inner memory IC data write error | С |
| 02BA | The inner memory IC data read error | С |
| 02BB | Inverter inner line of communication error | С |
| 02BC | Ground connection or fuse error | С |
| 02BD | Inverter hardware interrupt error | С |
| 02BE | DC brake Error | С |
| 02BF | DC brake Over Current | С |
| 02C0 | DC brake into manual mode | С |
| 02C1 | Velocity error is too large. | С |
| 02C2 | LCB E-Stop sensor error | С |
| 02C3 | LCB IR sensor error | С |

3. UCB Error

| Error code | Description | class level |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 0301 | Memory block fail (Flash, EEPROM) | Α |
| 0302 | UCB low battery voltage | А |
| 0303 | UCB low supply voltage | Α |
| 0304 | Earphone Board Need Replace | Α |
| 0305 | USB Hardware OT or OC | Α |
| 0306 | Keypad press keep 60 seconds | Α |
| 0307 | Not enough free space on the console to apply the update | Α |
| 0308 | Software package install failed | Α |
| 0309 | Software package MD5 check failed | Α |
| 030A | Failed to download software package | Α |
| 0340 | Key pad in extraordinary operation (Press keypad 5 sec. while power on) | В |
| 0341 | Fan over current | В |
| 0343 | UCB Over supply voltage | В |
| 0344 | Timeout receive packet (Not recommended for re-use, make use of 04B0 code) | В |
| 0345 | Correct packet but LCB without the function | В |
| 0346 | UCB detect the error of LCB incline position error | В |
| 0347 | VA Load program fail. | В |
| 0348 | Motor not to run. After adjustment speed 40 seconds, but did not receive continuous RPM. | В |
| 03A5 | Failed to load program (programs exist in the file system, this error could mean the file system is corrupt) | С |
| 03A6 | Failed to run program (the program read from the file system is invalid or has an invalid format, therefore it can not be executed) | С |
| 03A7 | Change to 0347_ | С |
| 03A8 | Control settings on the machine does not match the shape and under control. (ex. Bike console connect TM MCB) | С |
| 03A9 | Change to 0348_ | |

4.Communication Errors

| Error code | Description | class level |
|------------|----------------------------------------------------------------------------------------------------------------------------------|-------------|
| 0440 | 通訊接收逾時(起始 byte 至結束 byte 之間愈時) | В |
| | Timeout receive packet | |
| 0441 | 通訊命令格式正常,但無法執行該命令 | В |
| | Correct packet but LCB without the function | |
| 0442 | the received command code from the console is correct and is | В |
| · · · - | supported, but it has less or more data arguments (DCI) | |
| 0443 | MCB read or write wrong. | В |
| 04A0 | LCB無通訊回應 | С |
| | LCB No communication response. | |
| | LCB 逾 3 秒未收到 UCB 任何正確數位通訊命令封包 | |
| | LCB 3 second No communication response | |
| | EUPs 喚醒機制下 : (EUPs Wake up mode) | |
| | EUPs 喚醒(400ms 觸發訊號+0x7A 指令)至收到第 2 道(非 | |
| | 0x7A)指令前停止 Timeout 的計數動作, 直到第 2 道指令收到確 | |
| | 認後才開始進行 Timeout 3 秒的計數動作。 | |
| | EUPs Wake up and next command before, LCB need stop timeout count, Wait next command and get it, LCB will restart timeout count. | |
| 04B0 | UCB 無通訊回應 | С |
| | UCB No communication response | |
| | 逾5秒未收到LCB任何正確數位通訊命令封包(含 command) | |
| | From LCB have 5 second No communication response. | |

5.4 CONSOLE DOES NOT LIGHT UP -E-1X-F/R-1X-F/U-1X-F

1) SYMPTOM:

The power switch is in the on position, but the console will not turn on.

The console is damaged or the console cable is not connected properly.

Poor connection to the terminals on the lower control board.

The lower control board is damaged.

The generator is damaged.

2) SOLUTION:

The outlet the machine is plugged into is functional. Double check that the breaker has not tripped.

The correct power cord is being used. Only use the power cord included or provided by Customer Tech Support.

The power cord is not pinched or damaged and is properly plugged into the outlet and the machine. check to see if the connection of adapter is well.

Remove the console and check to see if the console wire has good connected with the console.

Remove the console mast and check to see if the console upper cable and console lower is connected well.

Remove the side cover and check to see if the wires are connected well.

If the voltage through the console cable is 12VDC, the console is defective, replace it.

5.5 SPEED DO NOT DISPLAY (E-1X-F/R-1X-F/U-1X-F)

1) SYMPTOM:

The speed value do not display on console

2) SOLUTION:

Unplug power cord, remove the console and check that all connections to the console are secure and not damaged or pinched.

Remove the side cover and check to see if the sensor wire is connected well.

Check to see if one corner of the sensor is aligned with the magnet and the distance less than 5mm.

5.6 KEYPAD/HERT RATE

1) SYMPTOM:

The Keypad not reaction /The Keypad function not match screen display.

The screen can not display heart rate pulse

2) SOLUTION:

1 the console cable is or connected improperly.

Remove the console mast and check to see if the console upper cable and console lower is connected well.

2. poor connection to the terminals on the lower control board and upper control board.

Remove the side cover and plug in /plug out terminals to see if the terminal are connected well.

3. Check Keypad pad and heart rate metal if connection with AOV meter.

5.7 Safe Key ISSUE

1) SYMPTOM:

When Safe Key be trigger but the machine not STOP.

2) SOLUTION:

1.poor connection to the terminals on console control board.

Check the safe key connection wire if break t by AOV meter. if connection wire break. The AOV meter will read ∞ ohms. Change safe key connection wire.

2. Wrong safe key connection wire be used

Check if used correctly safe key connection wire.

3. Console board is damage

Replace new console board and try again.

4. MCB board is damage

Replace new MCB board and try again.

5.6. Touch Screen Freeze. For the TM709 (T-1XE3XE3XH-06-C)

1.Enter service mode:

Press "enter+3001+enter", Select "Test" and "Touch calibration" then press "Start" (Fig-1)

















- 3. If console does not begin to countdown, It means calibration failed. Try again.
- 4. Turn off power 30 seconds then turn on the console to see if calibration process function is normal.

Note: 1.Please use finger or pen to calibrate and be careful not to touch panel beside the finger or pen.

- 2) If the touch panel calibration fails, follow these steps:
- 1. Loosen the 2 bolts from console back cover & remove the cover (Fig-1)
- 2. Loosen the 4 bolts from console center area & remove case and console base (Fig-2)



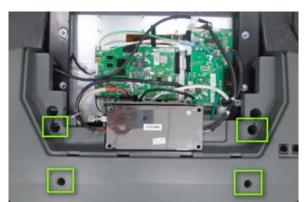


Fig-2

3. Check if the touch panel ribbon cable is damaged (rust) Fig-3 & Fig-4 $\,$



Fig-3

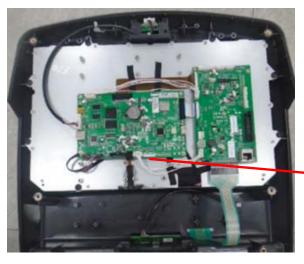


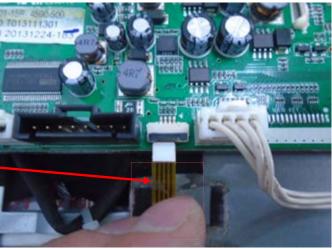
Fig-4

Note: Please take the photo in case you need to upload to OLS system.

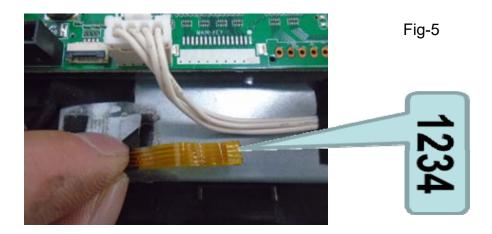
4. Unplug the ribbon cable from connector (Fig-4)







5.measure ribbon cable resistance between 1 2 3 4 point (Fig-5)





- ① Place probe on Pins 1 and 3 value should be around 300 Ω or 700 $\,\Omega$
- ② Place probe on Pins 2 and 4 value should be around 300 Ω or 700 Ω
- 6. Unplug ribbon cable then plug back in . check if function is normal.
- 7 .If function still is not normal . exchange the touch panel module and start from step 1.
- 8. If function is normal after changing touch panel . It can determine touch panel module defect.

5.6.1.Touch Screen Freeze. For the TM708 (T-1XE3XE3XH-07-C)

1.Enter service mode:

Select "Test" and "Touch calibration" then press "Start" (see section 4.20)

- 2) If the touch panel calibration fails, follow these steps:
- 1. Loosen the 2 bolts from console back cover & remove the cover (Fig1)
- 2. Loosen the 4 bolts from console center area & remove case and console base (Fig2)
- 3. Took off front cover on console, peel off tape and remove ribbon wire (Fig3)

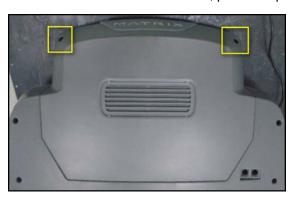


Fig1



Fig2

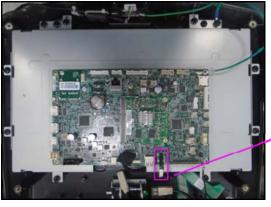
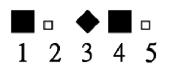


Fig3





1.between " \spadesuit " and 1,2,4,5 should be ∞ 2.between any two pin should 150-250 Ω If not display above value. The touch panel damaged.

5.7 TROUBLESHOOTING -screen display distortion-TM709 (T-1XE3XE3XH-06-C)

Symptom:





1. Enter service mode:

Press "enter+3001+enter", Select "Test" and "Touch calibration" then press "Start"

- 2. Execute step 1-4 calibrate . (Page45)
- 3. Open the console cover same as Page 46 step 1 & step2
- 4. Unplug the connection wire same as (Fig-1)
- 5. Plug in the connection wire to see if can improve the screen distortion.
- 6. If screen display still is not normal, switch to a new circuit board to see if can improve the screen distortion.



Fig-

5.8. TROUBLESHOOTING -Via Fit (T-1XE3XE)

GENERAL

For every support case, always record the following:

- 1. Customer xID
- 2. Customer Passcode
- 3. Customer Email Address
- 4. Via Fit equipment Model Name
- 5. Via Fit equipment Date of Purchase
- 6. Has the Via Fit equipment ever successfully connected to the internet? Yes or No.

For every support case, always begin the support process with the following steps:

- 1. Instruct the customer to cycle power on their Via Fit equipment.
- 2. If possible, restart their home WiFi router.
- 3. Wait for the Via Fit equipment and the WiFi router to fully boot up.

ISSUE

- 1. Connect Issues
- 1.1 During workout, shows "Login Successful" and then workout ends automatically

Problem:

My equipment wakes from sleep and I start a workout with the most recent user.

About one minute into the workout, I receive a message that says "Login Successful" and my workout is ended automatically.

I am then returned to the main home screen.

How It Looks:

WiFi Icon NOT visible, WiFi Icon flashing.

and my workout that

was in progress is lost.

Cause:

1. The workout was started prior to the console reestablishing its connection to the internet. This means the workout was being performed as a "Guest" and was NOT recorded.

Solution:

1. After waking a machine up from Power Save Mode, wait for the WiFi chip to establish a connection with the network (45-60 seconds) before starting a workout. The WiFi icon will flash while it attempts to connect, and will become solid when the connection is established. Once the connection is reestablished, the most recent user will be automatically logged in and the workout will post to that user's account.

5.8. TROUBLESHOOTING –Via Fit

1.2 Shows "DHCP was unable to obtain an IP Address..."

Problem:

I connected my equipment to the internet, but now my console tells me that "DHCP was unable to obtain an IP Address. If the netcard is removable, then you can remove/reinsert it to have DHCP make another attempt to obtain an IP address for it. Otherwise, you can statically assign an address."

How It Looks:

Windows CE Operating
System Pop-up displays with the message cited
above.

Cause:

- 1. ViaFit requires that certain network configurations be enabled/disabled and one or more of those settings could be at issue.
- 2. The WiFi chip in the console does not allow connections to networks with specific security encryptions (See Connect Issues, 1.4).

- 1. Connect to the wireless router using the IP Address provided by the router's manufacturer, and then log in to administer the network changes.
- 2. Enable DHCP. If DHCP is disabled, the DHCP server will NOT assign an IP Address to the equipment. The IP Address is needed for the console to connect to the network.
- 3. Disable MAC Filtering. If MAC Filtering is enabled, the DHCP server could be ignoring IP Address requests from the console because of its MAC Address.
- 4. Configure your router to use one of the following network security protocols: WEP, WPA1 or WPA2.
- 5. Ensure that the network is NOT configured to act as a proxy server for internet traffic.
- 6. If the console is connected to a network with "wireless repeater access points" and the master wireless access point is offline, the console will be unable to obtain an IP Address. Make sure the master access point is powered on and is connected to the internet.

5.8. TROUBLESHOOTING -Via Fit

1.3 Registered new xID, but shows "The xID or Passcode you entered is incorrect"

Problem:

I registered a new xID using the ViaFit equipment console and am unable to log in on the equipment and perform a tracked workout.

How It Looks:

A pop-up displaying "The xID or Passcode you entered is incorrect" appears

Cause:

- 1. The account was not created during registration.
- 2. Some ViaFit equipment was shipped with the environment set to "Staging" rather than "Production". The customer's new account is created in the wrong environment.
- 3. An account registration bug (fixed in November 2014) caused all new accounts created via the console to have their weight value multiplied by 10. This put the weight value over what the console allows.
- 4. If the user was attempted to log in multiple times, their account may be locked. On the 5th failed log in attempt, the server locks the account for suspicious activity and it will need to be unlocked.

- 1. Open a browser, navigate to viafit.netpulse.com and attempt to log in using the customer's xID and Passcode. If the login fails, reset the customer's Passcode at https://viafit.netpulse.com/index.html#/reset-passcode.
 - 1A. Upon clicking "Reset Passcode", if the page displays the message "The xID or email address you entered was not found in our system. Please try again," then the account was never created. Create the account for the customer and direct them to log in on their console using the xID and Passcode you created their account with.
 - 1B. Upon clicking "Reset Passcode", if the page displays the message "We've emailed you a temporary passcode. You can use it to login below," then the account was created. Instruct the customer to follow the email instructions, then log in on their console using the xID and new Passcode.
- 2. Open a browser, navigate to viafit.qa.netpulse.com and attempt to log in using the customer's xID and Passcode.
 - 2A. If login was successful, the console's environment is NOT set to "Production". Instruct the customer to hold down the "Resistance" buttons until the "Engineering" screen appears. In the "About" section, make sure the button on the right says "Production" rather than cycle power.

 2B. If login was unsuccessful, move to solution 3.
- 3. Open a browser, navigate to viafit.netpulse.com and attempt to log in using the customer's xID and Passcode.
 - 3A. If login is successful, navigate to their account settings page and verify that the Weight value is below 400 lbs/180 kg. If it is above, change it to be below that threshold. After changing the weight, ask the customer to log in on their console.
 - 3B. If the login is unsuccessful, move to solution 4.
- 4. If the customer received an email message from ViaFit stating "Someone recently tried to sign in to your account. If you are not aware of this sign-in attempt, someone else might be trying to access your account. You should reset your login information immediately," their account is locked. Instruct the customer to click the link provided in the email and follow the instructions to reset their Passcode. Next, direct them to log in on their console using the xID and new Passcode.

5.8. TROUBLESHOOTING -Via Fit

1.4 Shows "Unable to Connect to Via Fit at this time"

Problem:

I successfully completed the "Connect" workflow, but my console keeps telling me that it is "Unable to Connect to ViaFit at this time."

How It Looks:

WiFi Icon is flashing AND a pop-up saying "Unable to Connect to ViaFit at this time" displays and redisplays each time I close the pop-up.

Cause:

- 1. The WiFi chip in the console does not allow connections to networks with specific security encryptions.
- 2. The attempted connection is to a corporate network. Most networks of this type use an unsupported network security configuration.
- 3. The attempted connection is to a network that requires authentication via a web page (E.g. Wayport). This is an unsupported network security configuration.

- 1. Connect to a network that uses supported network configurations such as WEP, WPA1 or WPA2.
- 2. If none are available, ask if the customer has a smartphone with "Personal Hotspot" capability. If so, place the phone into "Personal Hotspot" mode and attempt to connect the equipment. If successful, you have have confirmed there is a network configuration issue.

5.8. TROUBLESHOOTING -Via Fit

1.5 Machine previously connected to Via Fit, but now connection fails

Problem:

A customer's router and equipment have been turned off for a few days, and now the machine will not connect to ViaFit.

How It Looks:

The machine attempts to connect, but fails. The WiFi icon will illuminate each curved bar of the symbol moving upward. When it times out, the WiFi symbol will not display. This indicates that it is not connected to the network.

Cause:

1. The equipment stored the IP Address that was originally given by the router, and it does not want to connect to a new IP Address. The customer must force the machine to request a new IP Address from the router.

Solution:

For models with a <u>touchscreen</u> <u>display console</u>, either:

- 1. Connect the machine via a wireless hotspot that isn't a home router (i.e. cell phone) and make sure it connects. Next, reconnect to the home router.
- 2. Log in to the home router and change the password for the WiFi, then reenter the password on the machine.

For models with an LED console:

1. Press the WiFi icon and go through the WiFi set up process to connect the machine as if it is the first time connecting to ViaFit.

5.8. TROUBLESHOOTING -Via Fit

- 2. Track Issues
- 2.1 Workouts from Via Fit equipment do not post to Via Fit Workout Tracking

Problem:

My ViaFit Equipment workout is not posting to ViaFit.

How It Looks:

Customer works out, but the workout does not show up on viafitness.netpulse.com

Cause:

- 1. The workout was started prior to the console reestablishing its connection to the internet. The workout was performed as a "Guest" and was NOT recorded.
- 2. Some ViaFit equipment was shipped with the environment set to "Staging" rather than "Production." This causes the customer's new account to be created in the wrong environment.

Solution:

1. After waking a machine up from Power Save Mode, wait for the WiFi chip to reestablish the connection with the network (45-60 seconds) before starting a workout.

The WiFi icon will flash while it attempts to connect, and will become solid when ready. When the connection is reestablished, the most recent user will be automatically logged in and the workout will post to that user's account.

2. Open a browser, navigate to viafit.qa.netpulse.com, and then attempt to log in using the customer's xID and Passcode. If the login is successful, the console's environment is NOT set to "Production". Instruct the customer to hold down the "Resistance" buttons until the "Engineering" screen appears. In the "About" section, make sure the button on the right says "Production," then cycle power.

5.8. TROUBLESHOOTING -Via Fit

- 3. Share Issues
- 3.1 Workouts from linked third party sites do not post to Via Fit Workout Tracking

Problem:

I've linked my third party application or device to ViaFit, but my workouts performed on those apps are not showing up in ViaFit Workout Tracking.

How It Looks:

Workout performed using a linked third party application or device is missing from viafit.netpulse.com and the application or device is listed as "Linked".

Cause:

1. Your login credentials for the third party application or device have changed and the link between that app or device and ViaFit is broken. However, the browser page is pulling up a cached version of the "Account Linking" page. The browser attempts to use the cached, outdated login credentials for the third party application or device.

Solution:

1. In your browser, clear internet history, browser cache, cookies and temporary internet files. Close and reopen the browser, and then go to the "Account Linking" page at viafit.netpulse.com. The third party application should be listed as "Unlinked." Reconnect the third party application or device using the new login credentials. Perform a test workout, then confirm that the workout posted to ViaFit.*

*NOTE: It may take up to 10 minutes for a workout to post.

5.8. TROUBLESHOOTING -Via Fit

3.2 - Workouts from Via Fit equipment do not post to third party sites

Problem:

I've linked my third party application or device to ViaFit but my workouts performed on ViaFit equipment do not show up in the third party application.

How It Looks:

Workout performed using Via Fit equipment is missing from the third party application but via fit. net pulse. com says the application or device is "Linked".

Cause:

1. They have connected a third party application or device to their account that only supports one way data transfers (incoming to ViaFit). Outgoing data transfers from ViaFit to those types of third party applications are not available.

Solution:

1. Identify all of the third party applications/devices the user has linked to their ViaFit account. Use a two way third party application* as a clearinghouse to the desired one way application. To do so, go into the two way third party application and link the desired one way third party application to it. The two way third party application will allow ViaFit equipment data to travel between the apps.

*NOTE: We suggest using MyFitnessPal as the clearinghouse.

One way apps include: FitBit, Moves, Up by Jawbone, and Withings.

Two way apps include: Body Media, Facebook, MapMyFitness, MyFitnessPal, and RunKeeper.

5.9. TROUBLESHOOTING -WIFI Issue

5.9. General diagnose:

- 1. Use mobile phone or portable device search router SSID and connect to desire SSID (Fig1)
- 2. Use speed test App. measure upload/download speed. It normal up 64K or higher depend on local ISP (internet service provider) but 0K mean fail to connection. (Fig2)
- 3. Browse www.google.com or others website.(Fig3)

If connection fail on item one. It need change router and try again.

If connection fail item 2&3. It ISP problem. Please contact local ISP (internet service provider).







Fig-1

Fig-2

Fig-3

5.9.1. Issue : Console WIFI test fail (1X/3X) / console can no see the WIFI signal strength on screen (1XE/3XE)

- 1. 1X/3X Enter manager mode enter "Internet "function (section 3.2 Page 15)
 1XE/T-1XE3XE enter "network setup " (section 4.10 page 27)
- Check IP / MAC address. If not show IP /MAC address. WIFI module damage.
 Change WIFI module and try again.

6.1 . Wi-Fi Module Install -(1X-04-C) & (T3X-05-C)

6.1.1.Wi-Fi module Install

- 1) Prepare Wi-Fi Module: Wi-Fi module; HF-A11-0; (Fig1)
- 2) To loose 2 pcs of screws already in Wi-Fi Module socket (Fig2)
- 3) Take the Wi-Fi Module and Push Wi-Fi module into socket carefully (Fig 3)
- 4) To tightness Wi-Fi Module with 2 pcs of screws (Fig3)
- 5) To assembly the UCB into consoles



Fig1

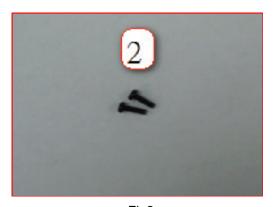


Fig2



Fig3

6.1.2.Wi-Fi configuration file prepare and uploading (1X/T-3X)

Choice Internet /Import setting from USB

[WIFI AP] Prepare Wi-Fi configuration file 1) SSID=xxxx [Desire to connect WIFI] Filename: "wifi_set.cfg (Fig1) Security=WPA2-PSK ... [Keep no change] Encryption=AES[Keep no change] 2) Store to USB stick. (Fig2) Key=xxxxxxxxx [Password] Insert USB stick in console USB port 3) Press " $\sqrt{ }$ " + "1001" + " $\sqrt{ }$ " enter manage mode 4)

Fig1

KeyIndex=1 [Keep no change]

TimeZone=21..... [Keep no change]

5) upload the file into console.

(section 3.2 Page15)

Fig2

6.1 . Wi-Fi Module Install -(1X-04-C) & (T3X-05-C)

- 6.1.3. Wi-Fi setup.
 - 1) Power on
 - 2) Press "enter" key 3 sec and display" CSAFE OK" (Fig1)
 - 3) Press"() " key back to previous menu. (Fig 2)
 - 4) Press speed up " + " key and choice Wi-Fi" function .(Fig 3)
 - 5) Press "enter", auto search Wi-Fi (Fig 4)
 - 6) When see "WiFi ok", Wi-Fi setup complete.-(Fig 5)
 - 7) Press "-" back to previous user menu.

-Figure6



Fig1



Fig2



Fig3



Fig4



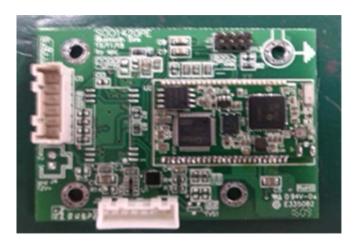
Fig5



Fig6

6.2 BT installation (For 1XE & T-1XE3XE console)

- 1) Take the control board.(Fig1)
- 2) Put the control board on its installation location (red circled area) (Fig 2)
- 3) Lock three Φ 2.9x7 screws Round head screw. (Fig 3)
- 4) Use another Φ2.9x7, Round head screw to lock the grounding wire. (Fig 4)
- 5) Insert USB connection cable (Fig-5)



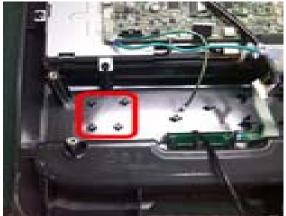


Fig1 Fig2





Fig 4



Fig 5

6.2 BT installation (For 1XE & T-1XE3XE console)

6.2.1 BT setup

- 1.Press BT icon; (Fig1)
- 2.Turn on BT on mobile phone first and then select media player on machine screen.it will take 10~30 seconds to search, if succeed, screen will show the name of phone BT (Fig2)
- 3.Click the BT you want to connect on machine, input mate number on phone;(Fig3)
- 4. If BT icon on machine turns yellow, BT setup successfully.(Fig4)





Fig1 Fig2

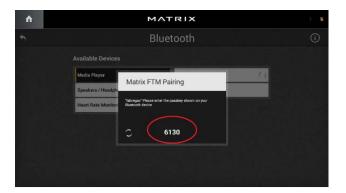




Fig3 Fig4

6.3 WIFI installation (For T-1XE3XE console)

- 1.Get WIFI module
- 2. Assemble the WIFI module. Aligned the hole on WIFI Module with the hole on main board. (Fig2)



Fig1



Fig2

2. Lock 2 screws (Fig-3)

Fig3



- 3 Get WIFI antennas -right and left side. (Fig4)
- 4 .Lock WIFI antennas . refer to the right side photo, use 4 Ф5x12,"+",umbrella head screw to fix the antenna .(Fig5)
- 5. Connect the antenna terminal with the WIFI module.

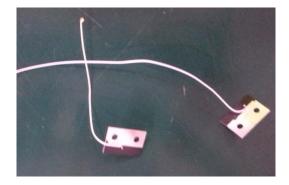


Fig4

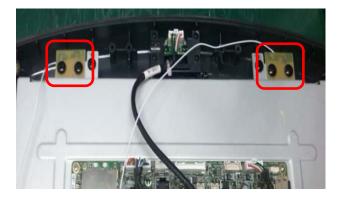
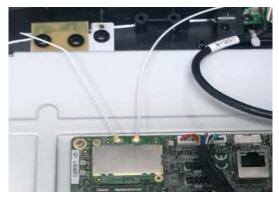


Fig 5



6.3.1 WIFI setup (For T-1XE3XE console)

- 1) Press "3,0,0,1" to enter engineer mode (Fig1)
- 2) Select "network setup" to choose WiFi setup (Fig2)
- 3) choose the SSID you want to connect; (Fig3)
- 4) input WiFi password and tick "√"; (Fig4)
- 5) when the WiFi icon turns to yellow, WiFi setup successful (Fig5)





Fig-1 Fig-2





Fig-3 Fig-4



Fig-5

6.4.VA Installation (For T-1XE3XE console)

- 1) Get TF card (Fig1)
- 2) Insert the TF card into the main board. refer to the right side photo ,insert TF card to this area. (Fig2)



Fig1



Fig2

6.4.1 VA setup (For 1XE & 3XE console)

- 1.Select "virtual active" (Fig1)
- 2.Click "→";(Fig2)
- 3.Click "go" (Fig3)
- 4.If succeed, you will see virtual VA (Fig4)



Fig1





Fig3

Fig4