

## Instruction Sheet

Follow these steps to update the fryer and install FQLink.

**NOTE:** FQLink **ONLY** functions on fryers with at least **ONE (1)** Common Controller (see Figure 1) installed in the far-left Vat #1 position.

**Subject:** 8263837, 8263870 and 8263838 FQ4000 FQLink Installation Instructions

**Models affected:** Taco Bell FilterQuick 4000 (Touch Screen) Fryers

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Figure 1

### STEP 1: CONFIRM COMMON CONTROLLER IS INSTALLED

1. The fryer **MUST** have at least **ONE (1)** Common Controller (see Figure 1) installed in the battery. **It must be located in the far-left Vat #1 position.** If a Common Controller is installed in the far-left Vat #1 position, continue to step 2. The Common Controller can be identified by the large silver metal bezel that surrounds the touch screen. If the fryer **DOES NOT** have a Common Controller installed, **DO NOT PROCEED**. **A Taco Bell controller conversion kit 8263741 will need to be installed in the far-left vat #1 position prior to continuing to STEP 2 for installation.**



Figure 2

### STEP 2: UPDATE THE FRYER SOFTWARE (NOTE: This step can be skipped if the fryer software was updated before the NEW Common Controller was installed.)

1. Locate the USB with the **FRYER SOFTWARE FILES 8122629 or 8122689 (refer to page 5 for the correct software matrix)** and follow the enclosed instructions to update the fryer software using the USB port on the **FAR-LEFT** side of the fryer, just inside the left fryer door (see Figure 2). The software versions after update should be:  
**UIC – 20.00.176; FIB – 20.00.070**



Figure 3

### STEP 3: DISCONNECT KCCM & RELOCATE MODEM (IF INSTALLED)

Continue to step 1 below.

1. Disconnect power from the fryer.
2. For 30lb fryers open the **FAR-RIGHT** door of the fryer or door with the oil reservoir (it may be third door from the left in 4 vat fryers or larger) (see Figure 3).

3. Remove the JIB/BIB to access the FIB box (see Figure 3). Note: The appearance of the FIB box may differ depending on date of manufacture.
4. Remove the FIB box cover by removing the two (2) ¼" screws attaching the cover and lifting on the cover to remove (see Figure 5). This box may vary by date of manufacture.
5. The KCCM board is located on the right side or rear of the FIB box (see Figure 6) depending on date of manufacture. Prior to starting, disconnecting the J1 harness may provide easier access to the RJ connectors on the FIB board (see Figure 6 & 6A).

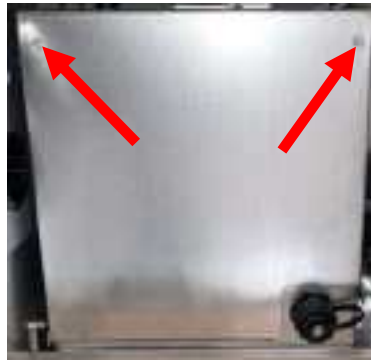


Figure 5



Figure 6

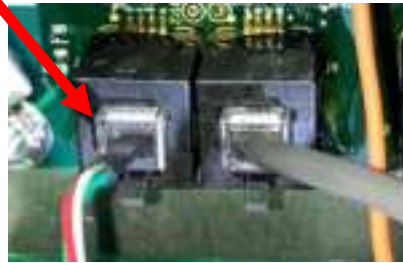


Figure 7

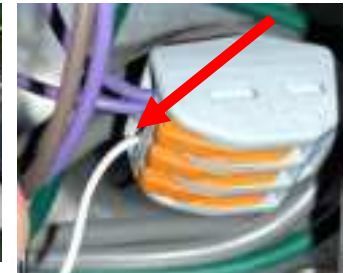


Figure 8



Figure 6A



Figure 9



Figure 10

6. Disconnect the RJ11 KCCM CAN/power harness (see Figure 7) from the FIB board.
7. Disconnect the white & black wires from the harness in the previous step from the Wago snap connectors (see Figure 8 & 9).
8. Cut or disconnect the green ground wire of the harness from the box (see Figure 10).



Figure 11



Figure 12

9. If a cellular modem is **NOT CONNECTED** to the KCCM board, skip to step 10. If a modem is connected, disconnect the cellular modem USB cable from the KCCM board (see Figure 11).
10. Disconnect the RJ45 connector from the KCCM board (see Figure 12). Discard the complete harness, it will no longer be used. The KCCM board will remain in the box.



Figure 13

11. Connect the supplied RJ11 CAN terminator to the connector on the FIB board from step 6 above (see Figure 13). Reconnect the J1 connector to the FIB board if disconnected.

12. If connecting using ethernet, route the ethernet cable to the rear of the Vat #1 controller ethernet connection and connect to the controller (see Figure 14).



Figure 14



Figure 15

13. Reattach the controller.
14. Ensure the new controller is installed on the left side fryer. Follow instructions on 8197989TB if necessary.
15. After installing the controller and power cycling for 60 seconds using the master power switch (see Figure 15) **wait 4 (four) minutes before proceeding to the step.**
16. Press the “**HOME**” button on the (see Figure 18) on the next page.
17. Press the **?** button (see Figure 19) on the next page.
18. Press the down arrow button (see Figure 20) on the next page.
19. Press the software version button (see Figure 21) on the next page.
20. Press the down arrow button (see Figure 22) on the next page.
21. The **GATEWAY SOFTWARE VERSION** is **61.99.051** (see Figure 22) on the next page, skip to Appendix A. If the **GATEWAY SOFTWARE VERSION** is **NOT 61.99.051**, proceed to STEP 4 in the next section.



Figure 16

#### STEP 4: INSTALL THE IoT AGENT SOFTWARE






1. Ensure all controllers are OFF and in the standby mode (see Figure 16).
2. On the left screen, press  →  →  → 3000 →  → TECH MODES  → SOFTWARE UPGRADE
3. Locate the USB with the **IoT AGENT SOFTWARE FILES 8122682** and insert the USB drive into the USB port on the **FAR-LEFT** side of the fryer, just inside the left fryer door (see Figure 17). The USB port may differ in appearance based on date of manufacture.
4. Follow the onscreen instructions.
5. Press **YES** when the screen displays **READING COMPLETED.**
6. Press **YES** when the screen displays **ALLOW 30 MINUTES FOR SOFTWARE UPGRADE. NO FRYING. UPDATE NOW?**
7. While updating the controller displays various messages. Once the update is finished it will either reboot the left controller, if deploying for the first time or display instructions to remove USB and power cycle. The right controller may still have messages showing it's updating, but it is finished. As long as the left controller displays REMOVE USB & POWER CYCLE, advance to step 8.
8. Remove the USB flash drive and lower cover over the USB slot.



Figure 17

9. Press the **YES** button to confirm.
10. The screen displays **UPGRADE COMPLETED, POWER CYCLE SYSTEM.**
11. Power cycle the system for **60 SECONDS**. Failure to press and hold the **reset switch long enough**, may cause an incomplete software update.

12. Wait two (2) minutes

and press the  
"HOME" button on  
the (see Figure 18).

13. Press the ? button  
(see Figure 19).

14. Press the down  
arrow button (see  
Figure 20).

15. Press the software  
version button (see  
Figure 21).

16. Press the down  
arrow button (see  
Figure 22).

17. The **GATEWAY SOFTWARE VERSION** should be  
**61.99.051** (see Figure 22). If not, repeat steps 1-8 of  
this section. If after two tries of loading the software  
and the version below is **NOT** displayed, go to STEP 5  
(Troubleshooting) on the last page.

18. Press the "HOME" button (see Figure 18) when  
finished.

19. This concludes installing  
hardware and updating  
software. The  
instructions on the  
following pages are for  
techs that are connecting the fryer to the cloud.



Figure 18



Figure 19



Figure 20

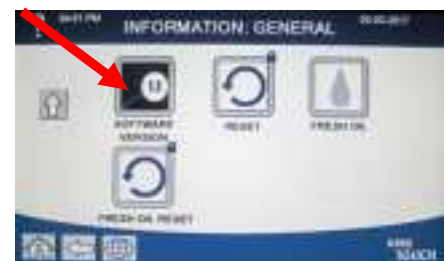


Figure 21



Figure 22

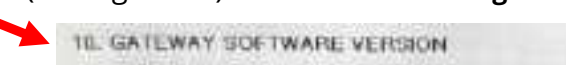


Figure 23

**61.99.051**

**STOP!!!! APPENDIX A SHOULD ONLY BE COMPLETED BY PERSONNEL THAT HAVE THE INFORMATION, PASSWORDS, SSID, ETC. TO CONNECT THE FRYER TO THE CLOUD.**



# Fryer Controller Software Update Matrix

If the fryer has **BOTH** old-style controllers or **BOTH** old and new style controllers mixed like below use USB **8122629**



\*\*\*\*\*







If the fryer has **ONLY BOTH** new style controllers like below use USB **8122689**



## Appendix A

**This section should ONLY be completed by IT departments or other personnel with the ability to edit config files and connect to the cloud.**

### STEP 1: EDIT THE CONFIG SETTINGS

1. Press  →  →  → **9000** →  →  **6X** → **CONNECTIVITY**  
SETTINGS SERVICE
2. Select **SERIAL NUMBER**.
3. Enter the serial number that is located inside the door of the far-left fryer and press **✓**.
4. Select **MODEL NUMBER**.
5. Enter the model number that is located inside the door of the far-left fryer and press **✓**.
6. Select **NUMBER OF UIs**.
7. Select the number of controllers in the battery of fryers and press **✓** (**NOTE: Taco Bell fryers usually have two (2) controllers**).
8. Select **CONNECTION TYPE**.
9. Select **DISABLE** to disable FQLink; **ETHERNET** if connecting via Ethernet; **WIFI** if connecting via WiFi; **CELLULAR** if connecting via Cellular and press **✓**.
10. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
11. Press **✓**.
12. Select **KEY TYPE**.
13. Select the security type **NONE**; **WPA-PSK/WPA2-PSK**; **WPA-NONE**; **WPA-EPA** and press **✓**.
14. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
15. Press **✓**.
16. Select **SSID**.
17. Enter the SSID address of the store network to connect the fryer to and press **✓**.
18. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
19. Press **✓**.
20. Press   
Select **PASSWORD**. This parameter can be blank if it is open or unlocked network.
21. Enter the network password and press **✓**.
22. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
23. Press **✓**.  
**Settings in steps 24-33 below apply ONLY to cellular modem configurations. If using WIFI or Ethernet skip to step 34.**
24. Select **APN**.
25. Enter the APN settings provided by the network provider (if using Telit sim card with Merlin modem enter **nxtesim1.net**) and press **✓**.
26. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
27. Press **✓**.


28. Select **PROVIDER**.
29. Enter the provider settings provided by the network provider (if using Telit sim card with Merlin modem enter **Telit**) and press **✓**.
30. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
31. Press **✓**.
32. Select **DIALIN**.
33. Enter the modem dial up number provided by the network provider (if using Telit sim card with Merlin modem enter **\*99\*\*\*1#**) and press **✓**.
34. Select **MQTT SERVER ADDRESS**.
35. Enter the IP Address of the MQTT Broker Server on the network press **✓**.
36. Select **MQTT PORT**.
37. Enter the socket port number of the MQTT Broker Server on the network press **✓**.  
Typical value is 1883, 1884, 8883, or 8884 depending on the type of security deployed on the MQTT broker server.
38. Select **MQTT USERNAME**.
39. Enter the MQTT broker username for logging into the MQTT Broker Server and press **✓**.
40. Select **MQTT PASSWORD**.
41. Enter the MQTT broker password for logging into the MQTT Broker Server and press **✓**.
42. Controller displays **SETUP COMPLETE RESTART THE SYSTEM**.
43. Press **✓**.
44. Press .
45. Power cycle the entire fryer by **PRESSING** and **HOLDING** the black toggle reset switch for **60 SECONDS**. The reset switch is located either under the USB port, near the USB port or under the control box (see Figures 24 and 25).



Figure 24



Figure 25

## STEP 2: CONFIRM THE IP ADDRESS

1. **WAIT FIVE (5) MINUTES** before proceeding to the next step.
2. Press the **"HOME"** button on the (see Figure 26).
3. Press the **?** button (see Figure 27).
4. Press the down arrow button (see Figure 28).



Figure 26



Figure 27



Figure 28

5. Press the software version button (see Figure 29).
6. Press the down arrow button **TWO** (2) times (see Figure 30).



Figure 29



Figure 30

7. The **GATEWAY CONNECTION STATUS** should be **CONNECTED**.

If not, wait 5 minutes and recheck starting with step 1 on the previous page.



Figure 31

8. The **GATEWAY IP ADDRESS** is shown. The **GATEWAY SOFTWARE IP ADDRESS** should have some numbers that are **NOT ALL ZEROS** (see Figure 31). **NOTE: The IP address WILL be different than shown (see Figure 31).** If only zeros are shown, power cycle the entire fryer battery and wait 5-10 minutes before checking the software version and IP address again. **NOTE: An IP address should NOT start with 4 or 82.** If so, then it is not connected. If is **NOT** connected, repeat steps 1-7 of this section. If after two tries of loading the software and the version above is **NOT** displayed, go to STEP 5 (Troubleshooting) on the last page.

9. Press the down arrow button (see Figure 31).

10. View the Gateway signal strength (see Figure 32). It should show a strength of 1/5



Figure 32

to 4/5. The higher the number the better. If it displays 0/5, it does NOT have a connection to cell or Wi-Fi service. See item #2 on page 8.

11. Confirm the IP address matches with what the router displays.
12. Press the "HOME" button (see Figure 26) when finished.

### STEP 3: CONFIRM THE UNIT APPEARS IN THE CLOUD

1. Confirm that the unit appears online in the cloud.

### STEP 4: VERIFY DATA IN THE CLOUD

1. Perform a cook on the fryer.
2. Perform a filter on the fryer.
3. Confirm that the cloud displays the proper cooks and filters performed on the fryer.



## STEP 5: TROUBLESHOOTING

1. If the software version is all zeros (0), **WAIT AN ADDITIONAL FIVE (5) MINUTES and recheck using steps 1-7 in STEP 2 (Confirm the IP address).**
2. The first number on gateway signal strength (refer to Figure 33) (Gateway Signal Strength Quality) which is shown at 4/5.  
Below is breakdown of first number:
  - a. 4 = Excellent signal; always associated; lightning fast.
  - b. 3 = Good signal; always associated; very fast.
  - c. 2 = Fair signal; always associated; usually fast.
  - d. 1 = Poor signal; mostly associated; mostly slow.
  - e. 0 = No signal; not associated; no go.
3. If the IP address is not being displayed but the signal strength is good, then the router or the cloud may have some issues and/or configuration needs to be confirmed for accuracy and updated again.



4/5 GATEWAY SIGNAL STRENGTH

Figure 33