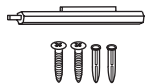
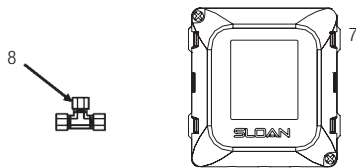
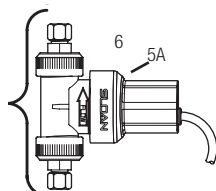
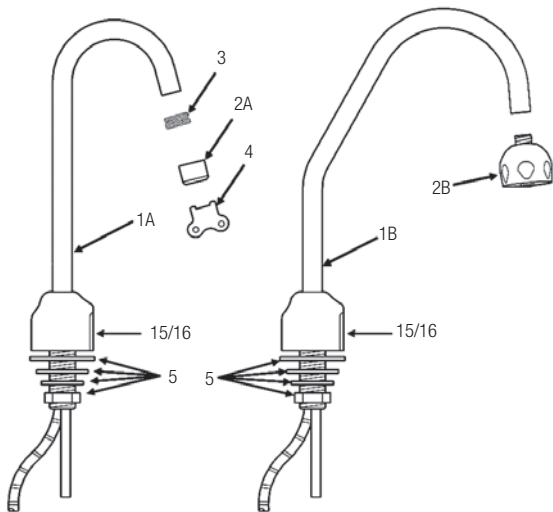


OLD Optima® EBF-750/EBF-750-S



Optional Trim Plate Kits



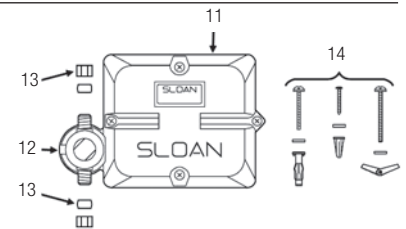
PARTS LIST—EBF-750 FAUCET

Item No.	Code No.	Part No.	Description
1A.	0315100PK	EBF-140-A	Faucet/Sensor Assembly with Standard Gooseneck Spout (EBF-750) w/ ETF-178.
1B.	0315101PK	EBF-141-A	Faucet/Sensor Assembly with Surgical Bend Gooseneck Spout (EBF-750-S) w/ ETF-178.
2A.	3365147	ETF-621-A	2.2 gpm (8.3 Lpm) Aerator Spray Head with Key (female thread)
	0365793	ETF-839	0.35 gpm (1.3 Lpm) Multi-Lam Spray Head
2B.	0328134	AC-55-A	Shower Spray Head Assembly, 2.2 gpm (8.3 Lpm)
3.	0305784	ETF-178	Adapter for Spray Heads (not required for AC-55-A Shower Spray Head)
4.	0305927	ETF-435	Replacement Key Only
5.	0365110	ETF-503-A	Spout Mounting Kit includes Rubber Gasket, Flat Washer, Lockwasher, Mounting Nut, and Union Compression Fitting
6.	0365758	ETF-740-A	6 VDC Solenoid Assembly
7.	0365752	ETF-735-A	Control Module
8.	3365461	ETF-617-A	Bak-Chek® Tee Assembly
9.	3365302	ETF-607-A	Optional 4" (102 mm) Centerset Trim Plate Kit includes Trim Plate Spacer and Single Hole Trim Plate Assembly
—	0365838	ETF-1003	36" Extension Cable (Optional) for Sensor

For additional information about Sloan Mixing Valves or Trim Plates, consult our Installation Instructions and Maintenance Guides.

The current parts breakdown shown on the left has been in production since September 2009. For earlier EBF-650/615 faucet models, please refer to the parts breakdown below and right or consult your nearest Sloan representative.

Note: earlier faucet models are not compatible with the current models.



PARTS PRIOR TO SEPTEMBER 2009

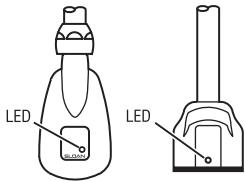
11.	0315104	EBF-60-A	Control Module assembly
12.	0315254	EBF-1011-A	Solenoid replacement kit
13.	3315029	EBF-113-A	Single solenoid supply compression nut kit
14.	3315018	EBF-79-A	Mounting hardware kit
15.	9103292	EBF-236-A	Sensor (New Style) Replacement Kit ONLY includes Sensor Housing and Cable Assembly (Phone Jack)
16.	0315057	EBF-138-A	Sensor (Old Style) (Prior to September 2009) Replacement Kit ONLY includes Sensor Housing and Cable Assembly (Flat Wire Black Plug)

— = Not shown in illustration

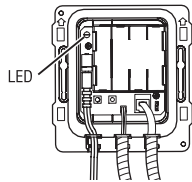
OLD Optima® EBF-750**TROUBLESHOOTING GUIDE****1. Sensor LED DOES NOT function (sensor indicator light does not flash during initial 10 minute set-up mode).**

- A. There is no visible indicator light. Normal operation. This is a normal operating feature of the faucet.

OLD STYLE SENSOR INDICATOR LIGHTS



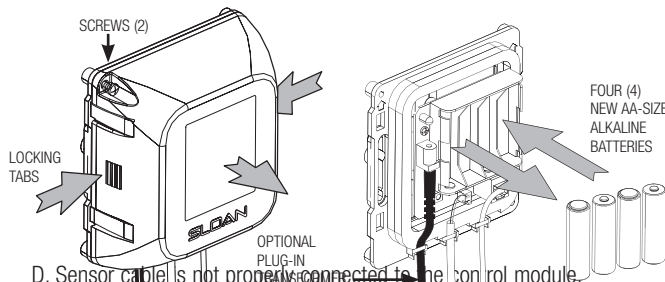
NEW STYLE SENSOR INDICATOR LIGHT

**2. Faucet DOES NOT deliver any water when sensor is activated.****INDICATOR:****Solenoid valve produces audible “CLICK.”**

- A. Water supply stop(s) closed. Open supply stop(s) completely.

INDICATOR: Solenoid valve DOES NOT produce an audible “CLICK.”

- B. Solenoid Lead is not properly connected to the control module. Disconnect and reconnect solenoid lead to the control module.
- C. No battery or transformer (optional) power is being supplied to sensor. Ensure that the batteries are installed properly. Check that the orientation of each battery matches the positive (+) and negative (—) symbols shown on the bottom of the battery compartment. Reinsert the batteries into the control module. Transformer (optional) is unplugged or wall receptacle has no power.

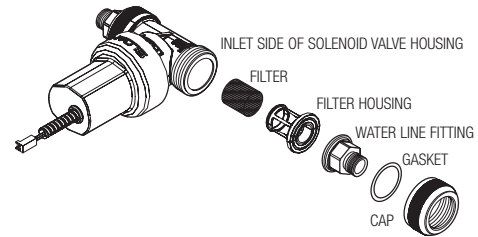


- D. Sensor cable is not properly connected to the control module. Disconnect and reconnect sensor cable to the control module.
- E. Sensor range is set at minimum distance. Increase sensor range. Refer to range adjustment in your installation instructions.
- F. Control module assembly is not working properly. Replace control module assembly.

3. Faucet delivers only a slow flow or dribble when sensor is activated.

- A. Water supply stop(s) partially closed. Open supply stop(s) completely.
- B. Solenoid filter is clogged. Remove, clean and reinstall filter. Turn off water supply at supply stop(s). Activate faucet to relieve system pressure. Remove water supply line from inlet side of solenoid valve. Remove cap, water line fitting, gasket, filter housing and filter from solenoid valve housing. Slide filter off filter housing. Clean filter using fresh tap water only. If necessary, use a small brush to clean. Use caution while cleaning to prevent damage to filter. If any filter components are damaged, replace as necessary. Examine the gasket for wear or damage; replace if necessary. Reinstall filter on filter housing. Install filter housing, gasket, water line fitting and cap onto solenoid valve housing. Tighten cap securely. Reinstall water supply line to inlet side of solenoid valve.

- C. Aerator is clogged. Remove, clean and reinstall aerator.

**4. Faucet DOES NOT stop delivering water or continues to drip after user is no longer detected (automatic shut-off fails even when batteries are removed).**

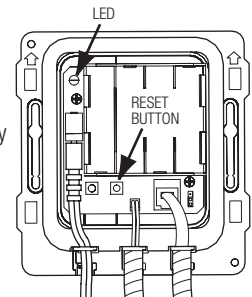
- A. Solenoid valve has been connected backwards. Disconnect solenoid valve compression fittings at both the inlet and outlet positions. The water should flow from inlet through the solenoid valve to the outlet according to the direction of the arrow shown on the side of the solenoid valve. Reconnect the compression fittings in the correct orientation.
- B. Solenoid valve is dirty. Backflush by reversing water flow (opposite to the direction shown by the arrow on the side of the solenoid valve) through the solenoid valve. Reconnect the compression fittings in the correct orientation. Activate faucet.
- C. Solenoid valve module is not working properly. Replace solenoid valve module.

5. The water temperature is too hot or too cold on a faucet connected to hot and cold supply lines with Bak-Chek® Tee.

- A. Supply stops are not adjusted properly. Adjust supply stops.

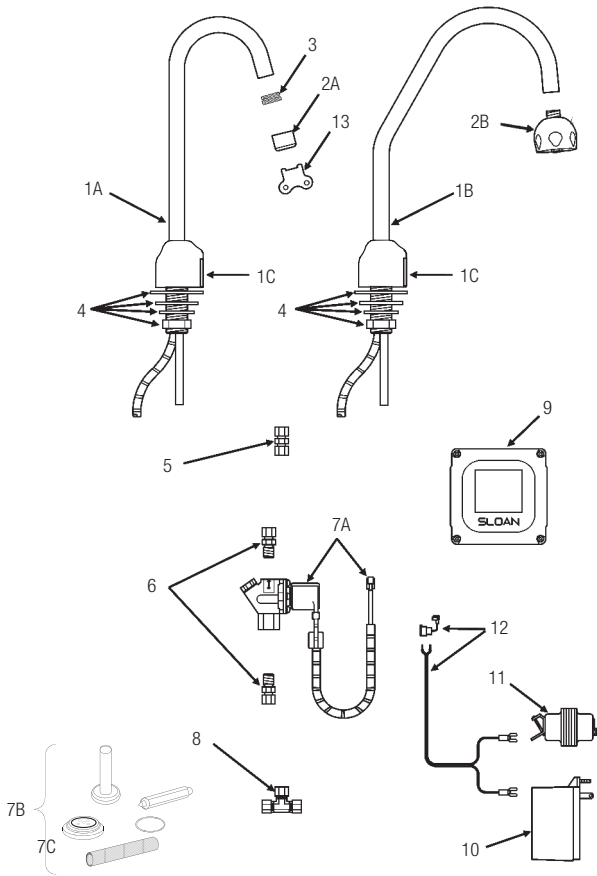
NOTE: For some systems, a thermostatic mixing valve may be required.**6. The RED LED turns on in the control module (below deck).**

- A. One (or more) of the batteries is “dead”. To ensure proper operation, insert four (4) new AA-size Alkaline batteries. Check that the orientation of each battery matches the positive (+) and negative (—) symbols shown on the bottom of the battery compartment. Reinsert batteries into the control module.
- B. Upon start-up mode the control module circuitry also tests the batteries and the RED LED turns on if the battery voltage is low, no RED LED light indicates normal battery voltage.
- C. If reset (initiates start up mode) button is pressed, the battery voltage is checked. If voltage is too low, product is stopped from operating and RED LED will turn on. No RED LED light indicates normal battery voltage.

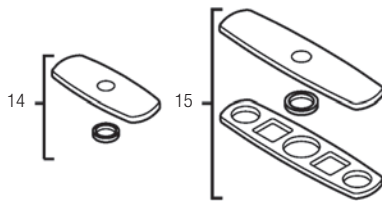
**7. The GREEN LED initially turns on in the control module (below deck) during start up mode, then will not appear again.****INDICATOR: For the 1st ten minutes of operation (batteries inserted or reset button pressed) the Green LED will turn on when there is a target present (hands in front of sensor). After ten minutes, the Green LED will no longer turn on.**

- A. This is a normal operating feature of the faucet.

OLD Optima® ETF-700/ETF-700-S



Optional Trim Plates



PARTS LIST—ETF-700 FAUCET

Item No.	Code No.	Part No.	Description
1A.	0365108	ETF-472-A	Faucet and Sensor Assembly with Standard Gooseneck Spout (ETF-700)
1B.	0365109	ETF-473-A	Faucet and Sensor Assembly with Surgical Bend Gooseneck Spout (ETF-700-S)
1C.	0365456PK	ETF-830-A	(NEW STYLE) Sensor Module Only includes 18" (153 mm) armored Cable, Shroud, and Housing for Sensor Window (ETF-700 and ETF-700-S Faucets)
1C.	0365028	ETF-476-A	(OLD STYLE) (Prior to 1-2009) Sensor Module Only includes 18" (153 mm) armored Cable, Shroud, and Housing for Sensor Window (ETF-700 and ETF-700-S Faucets)
2A.	0365147	ETF-621-A	2.2 gpm (8.3 Lpm) Aerator Spray Head with Key (female thread)
	0365793	ETF-839	0.35 gpm (1.3 Lpm) Multi-Lam Spray Head
2B.	0328134	AC-55-A	Shower Spray Head Assembly, 2.2 gpm (8.3 Lpm)
3.	0305784	ETF-178	Adapter for Spray Heads (not required for AC-55-A Shower Spray Head)
4.	0365110	ETF-503-A	Spout Mounting Kit Includes Rubber Washer, Flat Washer, Lockwasher, Mounting Nut, and Union Compression Fitting
5.	0365057	ETF-530	3/8" x 3/8" Union Compression Fitting (female)
6.	3365676	ETF-437-A	Single Solenoid Supply Kit includes, two (2) Compression Fittings, Compression Nut, and Ferrule
7A.	0305849	ETF-370-A	24 VAC Solenoid Valve Assembly includes 18" (457 mm) Armored Cable and two (2) Terminal Housings
7B.	3305577	ETF-1009-A	Solenoid Valve Repair Kit includes Replacement Filter, Guide, Armature Spring, Diaphragm and Washer
7C.	3375003	MCR-1003-A	Diaphragm only
8.	3365461	ET617-A	Bak-Chek® "T" Assembly
9.	3365000	ETF-450-A	Control Module Assembly includes splashproof Junction Box and Junction Box Mounting Kit
10.	0365534	ETF-233	120V/35VA Plug-In Transformer
11.	0345370	EL-248-40	24V/40VA Box Mount Transformer
12.	0365001	ETF-458-A	Input Power Cable (Transformer to Control Module) includes Strain Relief and two (2) Terminal Crimp Connectors
13.	0305927	ETF-435	Replacement Key Only
14.	3365302	ETF-607-A	Trim Plate for 4" Center-set Sink
15.	3365303	ETF-608-A	Trim Plate for 8" Center-set Sink

— = Not shown in illustration

FAUCET CABLE EXTENSION CORDS

ETF-80, ETF-500, ETF-600/ETF-610, ETF-660/ETF-770, ETF-700

0365042	ETF-1005-26	Faucet to Control Module Extension Cord; 26 inch (0.7 meter) Length – OBSOLETE
0305861	ETF-1005-36	Faucet to Control Module Extension Cord; 36 inch (0.9 meter) Length
0305862	ETF-1005-72	Faucet to Control Module Extension Cord; 72 inch (1.8 meter) Length – OBSOLETE
0305863	ETF-1005-108	Faucet to Control Module Extension Cord; 108 inch (2.7 meter) Length
0365838	ETF-1003-36	Solenoid to Control Module Extension Cord; 36 inch (0.9 meter) Length
0365053	ETF-1003-48	Solenoid to Control Module Extension Cord; 48 inch (1.2 meter) Length – OBSOLETE
0365839	ETF-1003-72	Solenoid to Control Module Extension Cord; 72 inch (1.8 meter) Length – OBSOLETE
0365840	ETF-1003-108	Solenoid to Control Module Extension Cord; 108 inch (2.7 meter) Length

OLD Optima® ETF-700/ETF-700-S**TROUBLESHOOTING GUIDE****1. No water is delivered when faucet is activated.**

INDICATOR: If no LED lights illuminate:

- A. No electricity is being supplied to faucet. Ensure that the main power is turned "ON". Check all transformer, sensor, solenoid and cable connections. Make sure that transformer is supplying 24 VAC (Volts AC). If no voltage is detected, replace transformer.
- B. There is an electrical system malfunction. Reset electrical system. Unplug sensor connection. Disconnect power to circuit for ten (10) seconds. Reconnect.

INDICATOR: If the GREEN LED illuminates when power is reconnected:

- C. There is a short in the sensor. Replace sensor. Refer to individual faucet parts diagram for appropriate sensor assembly. **NOTE:** GREEN LED may illuminate immediately after sensor disconnection.
- D. There is a short in the solenoid or solenoid cable. Replace ETF-370-A solenoid.

INDICATOR: If the GREEN LED does NOT illuminate when power is reconnected:

- E. There is an electrical system malfunction. Reset electrical system. Unplug sensor connection. Disconnect power to circuit for ten (10) seconds. Reconnect.
- F. The control module circuit is not working properly. Replace ETF-450-A control module.

INDICATOR: If GREEN LED illuminates AND changes to RED when hands are in the sensor's detection zone AND the RED solenoid LED illuminates:

- G. Water supply stop(s) may be partially closed. Open stop(s) if closed.
- H. Debris is clogging solenoid filter. Shut off water supply. Remove, clean and reinstall solenoid filter.

INDICATOR: If GREEN LED illuminates AND changes to RED when hands are placed in the sensor's detection zone AND the RED solenoid LED flickers with a vibrating/clicking noise heard inside the module: Note: Applies only to REVISION 2 MODULES.

- I. There is a direct short in the solenoid or solenoid cable. Replace with ETF-370-A solenoid.

INDICATOR: If GREEN/RED LED illuminates AND changes to RED when hands are NOT located in the sensor's detection zone BUT the RED solenoid LED (in upper left corner of circuit) does NOT illuminate:

- J. Sensor range is set too long and is detecting the sink. Reduce sensor detection range.
- K. Sensor is not working properly. Replace sensor. Refer to individual faucet parts diagram for appropriate sensor assembly.

INDICATOR: If GREEN LED illuminates BUT does NOT change to red when hands are placed in the sensor's detection zone:

- L. Sensor range is set too short. Increase sensor detection range.
- M. Sensor is not working properly. Replace sensor. Refer to individual faucet parts diagram for appropriate sensor assembly.

2. Sensing range is too short.

- A. Extended range sensitivity is required. Dip switch number 4 should be in the "DOWN" (Extended range sensitivity) position. Increase range by adjusting range potentiometer clockwise (yellow phillips screw in blue base).
- B. Faucet has surgical bend gooseneck spout. For long range use (recommended for surgical bend gooseneck spout faucet models), remove range jumper from upper right hand corner of circuit board. Adjust range potentiometer. Note: Applies only to REVISION 2 MODULES.

3. Faucet activates by itself (false triggers).

- A. Sensor range is set too long. Decrease range by adjusting range potentiometer counterclockwise. If necessary, flip dip switch number 4 into the "UP" (reduced range sensitivity) position. Check surroundings for factors that contribute to sensor range detection problems (bright lights, highly reflective surfaces, sunlight, etc.).

4. Faucet delivers very low flow or just a dribble.

- A. Water supply stop(s) may be partially closed. Open stop(s).
- B. Debris is clogging solenoid filter. Shut off water. Remove, clean, and reinstall solenoid filter.
- C. Solenoid is worn or not working properly. Rebuild with ETF-1009-A solenoid repair kit or replace ETF-370-A solenoid.
- D. Debris is clogging faucet aerator or spray head. Shut off water. Use key if required to remove. Then clean and reinstall aerator or spray head.

5. Faucet DOES NOT stop delivering water or continues to drip after user is no longer detected (even after power to the module has been disconnected).

- A. Solenoid valve is installed backward. Disconnect solenoid. Reconnect solenoid with water flow towards the faucet (see arrow on solenoid).
- B. Debris is clogging solenoid. Remove and clean solenoid operator. If necessary, rebuild with ETF-1009-A repair kit.
- C. Seat in solenoid valve body is damaged or pitted. Replace with ETF-370-A solenoid.

**When assistance is required, please contact
Sloan Technical Support at: 1-888-SLOAN-14 (1-888-756-2614).**