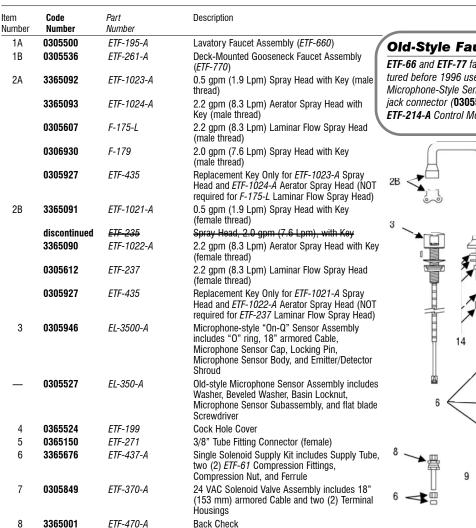


Guide 5

• 2 4 VAC HARDWIRE FAUCETS

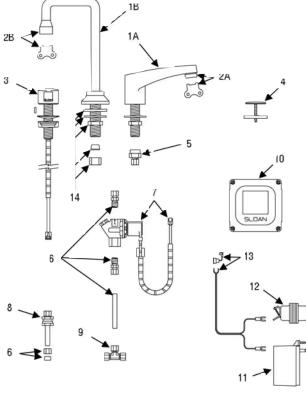
# OPTIMA ETF-660 and ETF-770 Faucets

### Parts List—ETF-660 and ETF-770 Faucets



## Old-Style Faucets

ETF-66 and ETF-77 faucets manufactured before 1996 used an EL-350-A Microphone-Style Sensor with telephone jack connector (0305527) and an ETF-214-A Control Module (0305533)



#### 11 0365534 ETF-233 12 0345370 EL-248-40 0365001 13 ETF-458-A 14 0305768 FI-310-A 3365602 15 ETF-432-A 16 3365468 FTF-313-A

ETF-259

ETF-450-A

ETF-214-A

ETF-1009-A

0305728

3306500

0305533

3305577

9

10

Control Module Assembly includes splashproof Junction Box and Junction Box Mounting Kit

Old-style Control Module Assembly includes Revision 3 Control Board, two (2) Anchor Screws, two (2) small and two (2) large Phillips Screws, Junction Box Bottom, Junction Box Top, Junction Box Hole Plug, and Power Cord Hole Plug

120V/35VA Plug-In Transformer

3/8" Tee Compression Fitting

24V/40VA Box Mount Transformer

Input Power Cable (Transformer to Control Module) includes Strain Relief and two (2) Terminal Crimp Connectors Spout Mounting Kit (ETF-770 Only) Includes Rubber Washer, Steel Washer, Lock Nut, Rubber Cone Washer, and Coupling Nut

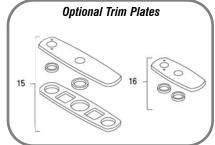
Optional 8" (203 mm) Centerset Trim Plate Kit includes Seal, Washer Fender, Gasket, Finger Nut, Trim Plate Spacer, and Dual Hole Trim Plate Assembly

Optional 4" (102 mm) Centerset Trim Plate Kit includes Trim Plate Spacer and Dual Hole Trim Plate Assembly Solenoid Valve Repair Kit includes Replacement Filter

FAUCET CABLE EXTENSION CORDS				
_	0365042	ETF-1005-26		
_	0365861	ETF-1005-36		
_	0305862	ETF-1005-72		
_	0305863	ETF-1005-108		
_	0365838	ETF-1003-36		
_	0365053	ETF-1003-48		
_	0365839	ETF-1003-72		
_	0365840	ETF-1003-108		

Faucet to Control Module Extension Cord; 26 inch (0.7 meter) Length Faucet to Control Module Extension Cord: 36 inch (0.9 meter) Length Faucet to Control Module Extension Cord; 72 inch (1.8 meter) Length Faucet to Control Module Extension Cord; 108 inch (2.7 meter) Length

Solenoid to Control Module Extension Cord; 36 inch (0.9 meter) Length Solenoid to Control Module Extension Cord; 48 inch (1.2 meter) Length Solenoid to Control Module Extension Cord; 72 inch (1.8 meter) Length Solenoid to Control Module Extension Cord; 108 inch (2.7 meter) Length





**Care and Cleaning Instructions:** DO NOT USE abrasive or chemical cleaners to clean Faucets that may dull the luster and attack the chrome or special decorative finishes. Use ONLY soap and water, then wipe dry with a clean towel or cloth. When cleaning the bathroom tile, protect the Faucet from any splattering of cleaner. Acids and cleaning fluids can discolor or remove chrome plat ing.

Need Help? Call 1-888-SLOAN-14(1-888-756-2614)

Parts Guide

1.

• 24 VAC HARDWIRE FAUCETS

### Troubleshooting Guide for ETF-80, ETF-500, ETF-600, ETF-610, ETF-660, ETF-700, and ETF-770 Faucets

NOTE: Revision 2 ETF-450-A Control Modules (manufactured after April 1999) have built-in reset fuses to protect the circuitry i earlier models, a sensor or solenoid short or failure could also result in an ETF-450-A Control Module failure.

f a sensor or solenoid fails or shorts. In

### NOTE: REMOVE COVER FROM ETF-450-A CONTROL MODULE TO CHECK DIAGNOSTIC LIGHTS.

. PROBLEM:	No water is delivered when faucet is activated.	IIOL I	SOLUTION:	Increase Sensor detection range.
INDICATOR:	If no LED lights illuminate:		CAUSE:	Sensor is faulty.
CAUSE: SOLUTION:	No electricity is being supplied to faucet. Ensure that the main power is turned "ON". Check all		SOLUTION:	Replace Sensor. Refer to individual faucet parts diagram for appropriate Sensor Assembly.
	transformer, sensor, solenoid and cable connections.  Make sure that transformer is supplying 24 VAC (Volts AC). If no voltage is detected, replace transformer.	2.	PROBLEM: CAUSE: SOLUTION:	Sensing Range is too short.  Extended Range Sensitivity is required.  Dip Switch number 4 should be in the "DOWN"
CAUSE: SOLUTION:	There is an electrical system malfunction.  Reset electrical system. Unplug Sensor connection.  Disconnect power to circuit for ten (10) seconds.  Reconnect.			(Extended Range Sensitivity) position. Increase range by adjusting range potentiometer clockwise (yellow phillips screw in blue base).
INDICATOR:	If the GREEN LED illuminates when power is reconnected:		CAUSE: SOLUTION:	Faucet has Surgical Bend Gooseneck Spout. For Long Range use (recommended for Surgical Bend
CAUSE:	There is a short in the Sensor.		SULUTION.	Gooseneck Spout faucet models), remove Range Jumper
SOLUTION:	Replace Sensor. Refer to individual faucet parts diagram for appropriate Sensor Assembly.			from upper right hand corner of circuit board. Adjust range potentiometer.
Note:	GREEN LED may illuminate immediately after Sensor disconnection.		Note:	Applies only to REVISION 2 MODULES.
CAUSE: SOLUTION:	There is a short in the Solenoid or Solenoid cable.  Replace ETF-370-A Solenoid.	3.	PROBLEM:	Faucet activates by itself (false triggers).
INDICATOR:	If the GREEN LED does NOT illuminate when power is reconnected:		CAUSE: SOLUTION:	Sensor range is set too long.  Decrease range by adjusting range potentiometer
CAUSE:	There is an electrical system malfunction.		JOLOTION.	counterclockwise. If necessary, flip Dip Switch number 4
SOLUTION:	Reset electrical system. Unplug Sensor connection. Disconnect power to circuit for ten (10) seconds. Reconnect.			into the "UP" (Reduced Range Sensitivity) position. Check surroundings for factors that contribute to Sensor range detection problems (bright lights, highly reflective
CAUSE:	The Control Module circuit is "dead".			surfaces, sunlight, etc.).
SOLUTION:	Replace ETF-450-A Control Module.	4.	PROBLEM:	Faucet delivers very low flow or just a dribble.
INDICATOR:	If GREEN LED illuminates AND changes to RED when hands are in the Sensor's detection zone AND the RED Solenoid LED illuminates:		CAUSE: SOLUTION:	Water Supply Stop(s) may be partially closed. Open stop(s).
CAUSE: SOLUTION:	Water supply stop(s) may be partially closed.  Open stop(s) if closed.		CAUSE: SOLUTION:	Debris is clogging Solenoid Filter. Shut off water. Remove, clean, and reinstall Solenoid
CAUSE: SOLUTION:	Debris is clogging Solenoid Filter. Shut off water supply. Remove, clean and reinstall		0.4440=	Filter.
	Solenoid Filter.		CAUSE: SOLUTION:	Solenoid is worn or faulty.  Rebuild with ETF-1009-A Solenoid Repair Kit or replace ETF-370-A Solenoid.
INDICATOR:	If GREEN LED illuminates AND changes to RED when hands are placed in the Sensor's detection zone AND the RED Solenoid LED		CAUSE:	Debris is clogging faucet Aerator or Spray Head.
Note:	flickers with a vibrating/clicking noise heard inside the module: Applies only to REVISION 2 MODULES.		SOLUTION:	Shut off water. Use Key if required to remove. Then clean and reinstall Aerator or Spray Head.
CAUSE:	There is a direct short in the Solenoid or Solenoid cable.	5	PROBLEM:	Faucet does not stop delivering water or continues to
SOLUTION:	Replace with ETF-370-A solenoid	J.	I NODELIVI.	drip after user is no longer detected (even after power
INDICATUK:	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		CAUSE:	to the Module has been disconnected). Solenoid Valve is installed backward.
CAUSE: SOLUTION:	LED (in upper left corner of circuit) does NOT illuminate:  Sensor range is set too long and is detecting the sink.  Reduce Sensor detection range.		SOLUTION:	Disconnect Solenoid. Reconnect Solenoid with water flow towards the faucet (see arrow on Solenoid).
CAUSE: SOLUTION:	Sensor is faulty. Replace Sensor. Refer to individual faucet parts diagram for appropriate Sensor Assembly.		CAUSE: SOLUTION:	Debris is clogging Solenoid. Remove and clean Solenoid operator. If necessary, rebuild with ETF-1009-A Repair Kit.
INDICATOR:	If green LED illuminates BUT does NOT change to red when hands are placed in the Sensor's detection zone:		CAUSE: SOLUTION:	Seat in Solenoid valve body is damaged or pitted. Replace with ETF-370-A solenoid.

### LIMITED WARRANTY

Sloan Valve Company warrants its Faucet Products to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which they are intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of three years (one year for special finishes) from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer's cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company's products directly from Sloan Valve Company for purpose of resale.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

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