SYMMONS®
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Ultra-Sense®

Sensor Activated Lavatory Faucet
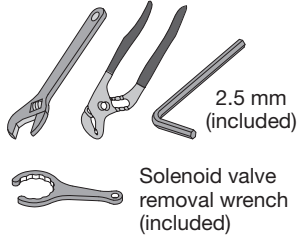### S-6080-AC-12V-SSUP
S-6080-ACM-12V-SSUP
Installation, Operation & Service Instructions

Model Numbers

- **S-6080-AC-12V-SSUP**
  Single supply sensor faucet and AC wall plug-in transformer

- **S-6080-ACM-12V-SSUP**
  Single supply sensor faucet for multi-faucet installations with 10' DC power cord

Tools & Materials

2.5 mm (included)

Solenoid valve removal wrench (included)

☎ Need Help?

Symmons customer service:
P: (800) 796-6667, F: (800) 961-9621
gethelp@symmons.com
Mon - Fri 7:30 am - 6:00 pm EST

💻 www.symmons.com/service
- Technical help
- Product information
- Warranty policy

### Quick Install Guide *Ultra-Sense Lavatory Faucet, S-6080-AC/ACM-12V-SSUP*

Single hole mount

Step 1
Attach faucet to deck

Step 2
Connect power and water supply lines

Step 3
Test and check for leaks

finished deck front view

Tempered supply line

AC

Operation (sensor activated)
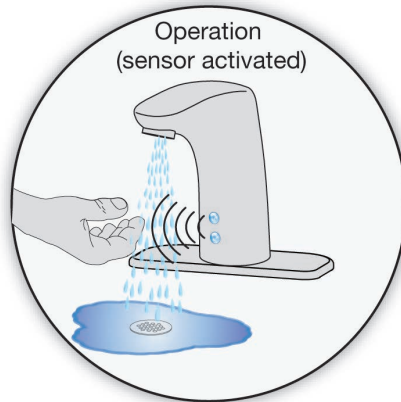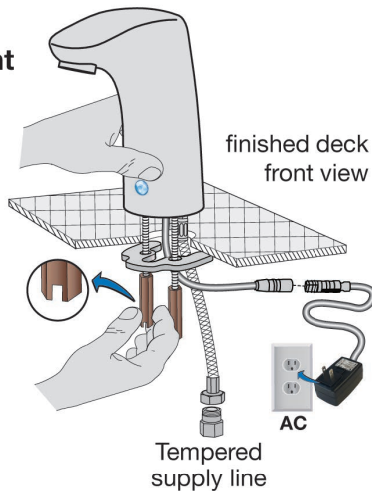
Three hole mount with deck plate

Step 1
Attach faucet and deck plate to deck

Step 2
Connect power and water supply lines

Step 3
Test and check for leaks

finished deck front view

Tempered supply line

AC
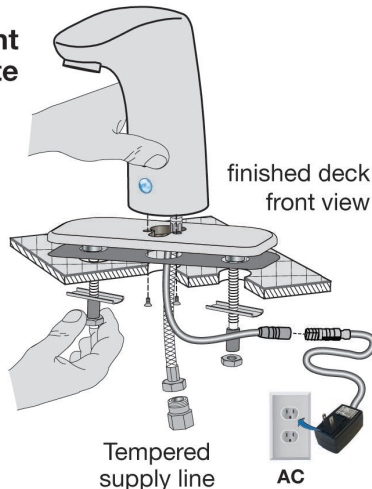
Faucet supply configuration options

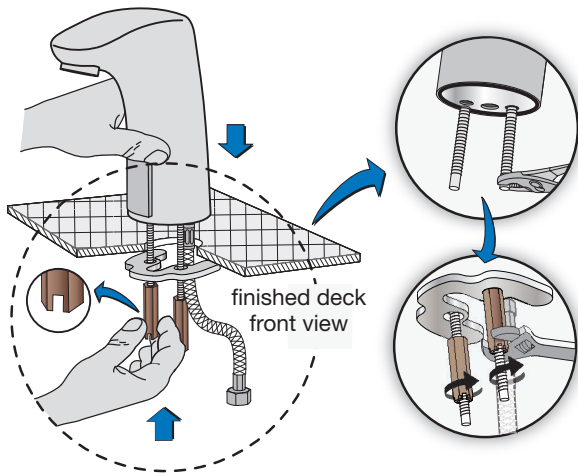1) Tempered water preset internally *(factory configured)*

For California Residents

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
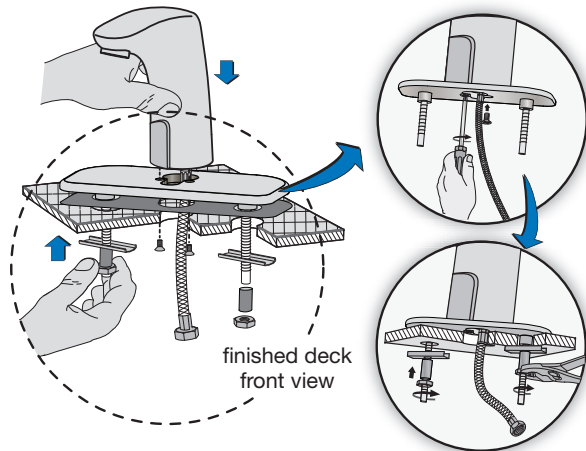
Installation Instructions, *S-6080-AC-12V-SSUP and S-6080-ACM-12V-SSUP*

Important!   Prior to connecting the water supply, ensure supply lines are flushed. Particles can clog filter and result in malfunction. Excessive particles from supply lines may require installing a separate efficient filter.

Step 1   Attach faucet to deck   (1 hole)
Single hole mount without deck plate

finished deck
front view

Step 1   Attach faucet to deck   (3 hole)
Three hole mount with deck plate

finished deck
front view

Step 2   Connect power and supply line

NOTE

Symmons **MAXLINE**™ 7-210 water temperature limiting valve shown for illustration only (not included)

temp adjust

HOT

COLD

strainer
check/
adapter
3/8"
1/2"

120 VAC
power outlet

tempered supply line
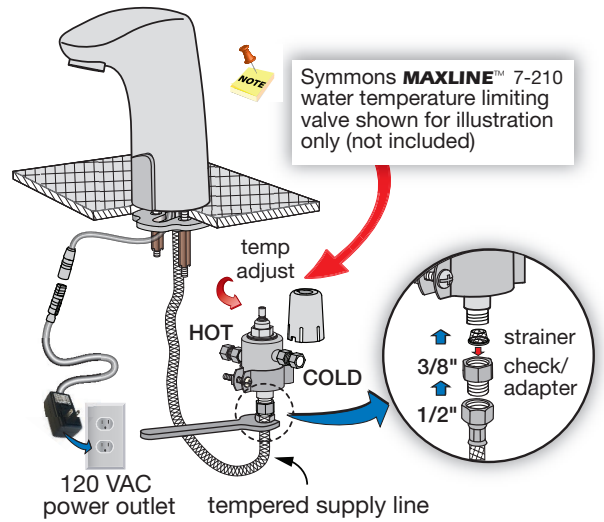
Step 3   Test operation & check for leaks

Visual Install Guide Multi-Faucets *S-6080-ACM-12V-SSUP*

Model S-6244 (p/n SF-194)
Termination Enclosure

Input: 100 - 240 VAC
47-63 Hz @ 1.0 amps

Power supply supports up
to eight (8) Sensor Faucets

green...(Protective earth)
white................ (Neutral)
black............. (Line)

12 inch (305 mm) DC power cable

Model S-6240-12V
(p/n SF-01448)

Switching Power Supply
Output: 12 VDC
@ 3.33 amps max

DC power receptacle
DC power cable plug

AWG #20

AWG #16

+12 VDC

Wire nut,
terminate wires together

AWG #20

AWG #16

wire labels
+LEAD #1 = +12 VDC
-LEAD #2 = -RET (GND)

+LEAD #1

– RET (GND)

Wire nut,
terminate wires together

-LEAD #2

Standard 10 foot DC power cable (optional 20 foot)
included with each faucet.

Note: Dimensions and product structure subject to change without notice.

Installation Requirements

The following items are not
included and purchased separately:

**Switching Powers Supply,
Model# S-6240-12V**

Power Supply supports up to eight
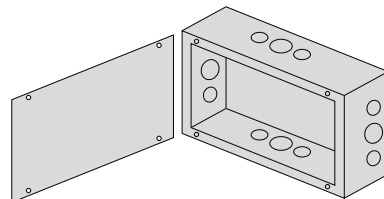faucets. Mounting strap and screws
are included.

Input: 100/240 VAC @ 1.0 amp
Output: 12 VDC @ 3.3 amps max

**Termination Enclosure Box,
Model # S-6244**

Standard electrical termination
enclosure or equivalent
(6"H x 10"W x 4"D).

Model S-6244 enclosure box may
be purchased from Symmons or
similar type from a local electrical
supplier.

Wire nuts - Secure wire connections
using two wire nuts that can join (8)
AWG #20 wires and (1) AWG #16
wire. Purchace from a local electrical
supplier.

Electrical Installation

100/240 VAC to 12 VDC power
supply must be mounted in a
electrical termination enclosure box
with wire connection in accordance
with local state electrical codes.

Important! A licensed
electrician must connect
AC power source to
power cord leading into
termination enclosure.

Multi-Faucet Installation

Reference Visual Guide illustration on page 3.

Step 1   Install Faucets

- Install each sensor faucet per installation instructions on page 2.
- The maximum number of faucets DC power supply can support is (8) eight.
- A 10 foot (20 foot optional) extended DC power cable is supplied with each faucet.

Step 2   Mount Termination Box

- Mount box to a wall, under a sink or closet location.
- Ensure the furthest faucet is located within 19 feet (5.8 meters) of the termination enclosure.
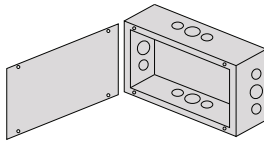
Step 3   Run faucet's extended DC power cable

- Plug extended DC power cable plug into each faucet's power receptacle.
- Run each extended power cable from faucet under the sink to the termination box. Feed cable through a strain relief and punched-out hole into the termination box.

> ⚠ Avoid contact with water pipes and secure cable in accordance with state and local electrical codes.

Step 4   Prepare power cable wire ends

- **Faucet extended DC power cables**
  Strip off a few inches of cable jacket and then strip each wire to expose copper ends.
- **Power supply DC power cable**
  Strip off a few inches of cable jacket and then strip ends of each wire to expose copper ends.

Step 5   Connect DC power wires

- **+12 VDC line** - Connect each of the faucet's **+LEAD #1** black wires to the power cables red wire.
- **-RET (GND) line** - Connect each of the faucet's **- LEAD #2** black wires to the power cables black wire.
- **Wire nuts** - Secure wire connections using two wire nuts with size that can join (8) AWG#20 wires and (1) AWG#16 wire.

Step 6   Connect AC Power

- Connect 100/240 VAC power source to wire ends of AC power cord. Note: A licensed electrician must connect AC power source to power cord.
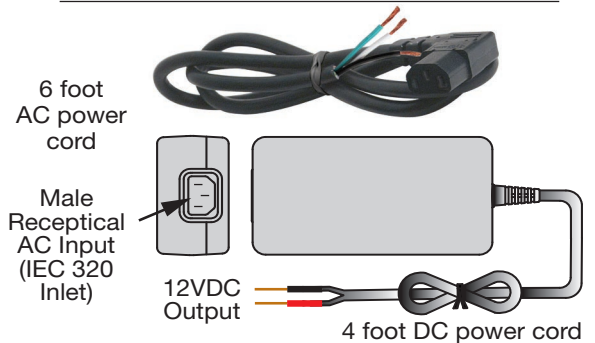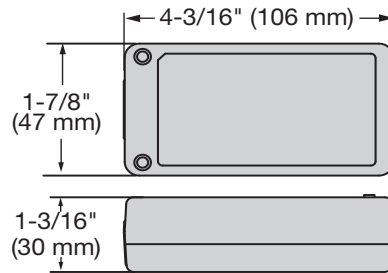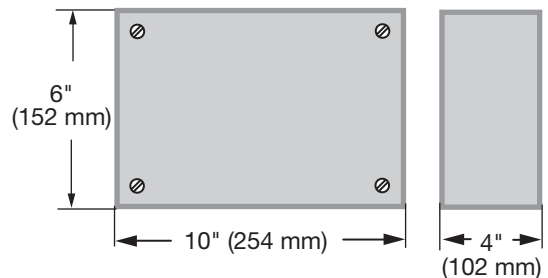
Wire color codes

green .... (Protective earth)
white .... (Neutral)
black .... (Line)

- Plug AC power cord into power supply.
  Faucets may all activate for one cycle on initial power up.

Dimensions Power Supply, *S-6240-12V*

4-3/16" (106 mm)

1-7/8" (47 mm)

1-3/16" (30 mm)

6 foot AC power cord

Male Receptical AC Input (IEC 320 Inlet)

12VDC Output

4 foot DC power cord

Dimensions Enclosure Box, *S-6244*

6" (152 mm)

10" (254 mm)

4" (102 mm)

Note: Dimensions subject to change without notice.

Operation

Sensor recognition range is factory preset at 1/2 - 4 inches

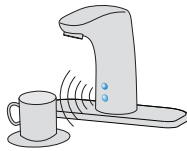Place hand under faucet, water will flow automatically for 10 seconds and shut off.

Auto shut-off time is factory preset at 1/2 to 1 second

Remove hands, water will stop automatically within 1/2 to 1 second.

Security OFF after 10 seconds

Faucet will automatically shut off after continuous water flow for 10 seconds.

Faucet Repair

⚠ Replacing Solenoid Valve (p/n SF-240)

- Remove old o-ring from valve body before replacing soleniod valve. Replacement solenoid valve will come with new o-ring installed to allow proper seal and prevent leaking from valve body.

Troubleshooting

No water flow

- Faucet is not receiving power from AC outlet. In multi-faucet installations, faucet is not receiving power.
- Filter in strainer is clogged. Excessive clogged filter may require installing of separate efficient filter into supply line.
- Solenoid valve connector inside faucet is loose.
- Circuit board is faulty. Do not attempt repair, please contact Symmons customer service.
- Solenoid valve is faulty. Do not attempt repair, please contact Symmons customer service.
- Clean around photo cell sensor area or replace sensor.

Water flow is weak

- Water supply stops are not fully open.
- Clean aerator and check strainer on end of supply line. Excessive clogging may require installing of separate efficient filter into supply line.

Water flow from spout fails to turn off

- Sensing range may be too low. Clean around photo cell sensor area.
- Clean solenoid valve membrane or replace solenoid valve.

Water temperature can't be adjusted

- Clean the check strainer on end of supply line.
- Clean or replace the mixer.

Faucet care

Cleaning surface finish

- Block sensor with plastic cleaning cover to prevent faucet from turning on while cleaning.
- Clean finish area by using mild soap and water or non-abrasive cleaner and then rinse immediately. A non-abrasive wax may be used to preserve finish area.

Precautions

- Ensure sensor is not damaged through impact or scratches.
- Ensure sensor is not blocked or disturbed by any object with its detection range.
- Ensure that no strong light source is aimed directly at sensor or through a mirror.
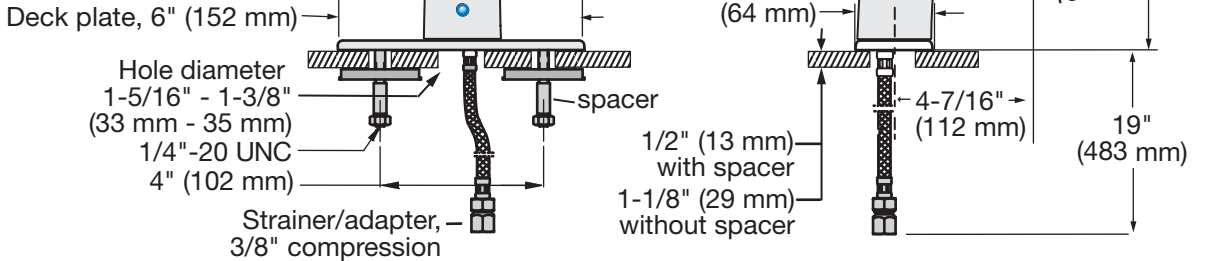
Risk of Freezing

When installing the faucet in a location where the temperature may fall below freezing, the entire system must be drained of water to prevent damage in freezing weather.

- Turn off water supply.
- Disconnect all flexible hoses.
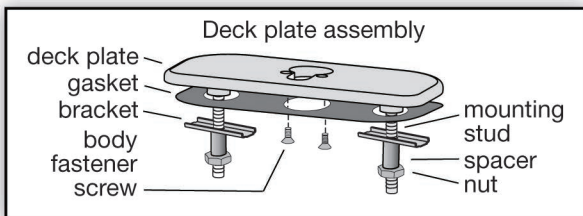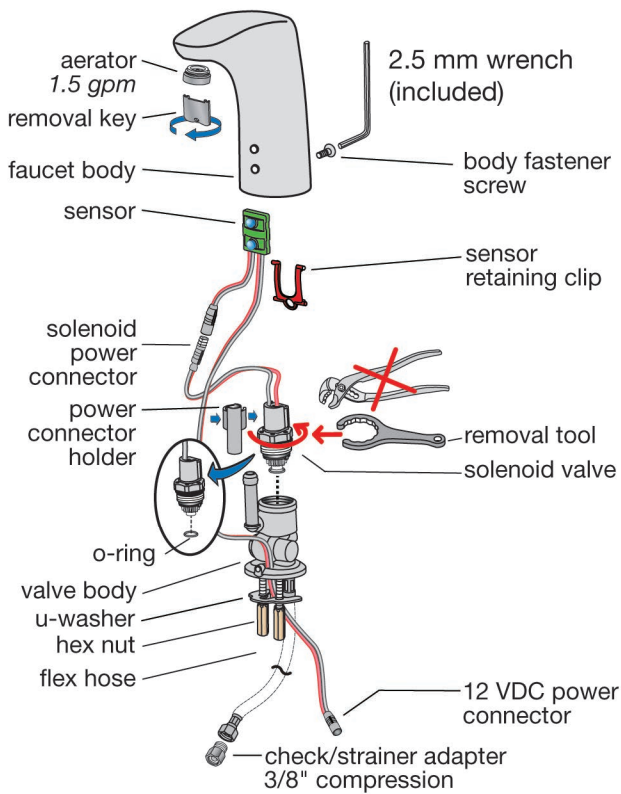- Drain all parts and hoses of water.

Dimensions Ultra-Sense Lavatory Faucet, *S-6080-AC/ACM-12V-SSUP*

Note
(1) Faucet shown with 4 inch centered deck plate.
(2) Dimensions subject to change without notice.

Deck plate, 6" (152 mm)

Hole diameter
1-5/16" - 1-3/8"
(33 mm - 35 mm)
1/4"-20 UNC
4" (102 mm)

spacer

Strainer/adapter,
3/8" compression

Deck plate
2-1/2"
(64 mm)

1/2" (13 mm)
with spacer
1-1/8" (29 mm)
without spacer

5-5/16"
19° (135 mm)

4-7/16"
(112 mm)

19"
(483 mm)

Parts Assembly Ultra-Sense Lavatory Faucet, *S-6080-AC/ACM-12V-SSUP*

aerator
1.5 gpm
removal key

faucet body

sensor

solenoid
power
connector

power
connector
holder

o-ring

valve body
u-washer
hex nut
flex hose

2.5 mm wrench
(included)

body fastener
screw

sensor
retaining clip

removal tool
solenoid valve

12 VDC power
connector

check/strainer adapter
3/8" compression

Deck plate assembly

deck plate
gasket
bracket
body
fastener
screw

mounting
stud
spacer
nut

S-6080-AC-12V Replacement Parts	
Part Number	**Item**
SF-240	Solenoid valve *with removal tool*
SF-239	Sensor and retaining clip
SSF-108	Check / strainer kit for flex hose connections *housing check screen*
SF-158	Single hole mounting kit
SF-125	Aerator, vandal resistant *with removal key #LL-60K* ■ 1.5 gpm (5.7 L/min)
LN-100 LN-217	Non-aerated laminar flow vandal resistant spray outlet *with removal key #LL-60K* ■ 0.5 gpm (1.9 L/min) ■ 1.5 gpm (5.7 L/min)
SF-163	Cleaning cover

Ordering replacement parts:
Call Symmons customer service at (800) 796-6667, (781) 848-2250 M-F 7:30 am - 6:00 pm EST or check our website at www.symmons.com for a list of Symmons distributors.