X10 WS12A

X10 Dimmer Switch (WS12A) 500W User Manual

Model: WS12A

1. INTRODUCTION

The X10 Dimmer Switch (WS12A) is designed to replace traditional dimmer switches, enabling remote control capabilities for your dimmable wired lighting fixtures. This switch controls incandescent lights up to 500 Watts and integrates with X10 home automation systems. It supports both local and remote operation for ON/OFF, BRIGHTEN/DIM functions, and responds to ALL LIGHTS ON X10 commands.

This manual provides detailed instructions for the installation, operation, and maintenance of your X10 Dimmer Switch.

Figure 1: X10 Dimmer Switch (WS12A). A white X10 Dimmer Switch (model WS12A) with a rocker-style paddle. The switch is designed for wall installation and includes a small power cutoff switch at the bottom of the rocker.

2. KEY FEATURES

- Provides local and X10 control for a wired dimmable light.
- Controls incandescent lights up to 500 Watts.
- Works in single-pole or multi-way applications.
- Includes white and ivory rocker paddles for aesthetic customization.
- Does not require a neutral wire for installation.
- Features a power cutoff switch for safe bulb changing.

3. PACKAGE CONTENTS

Please verify that all items are present before beginning installation:

- X10 Dimmer Switch (WS12A)
- White Rocker Paddle
- Ivory Rocker Paddle

Note: A wallplate is not included and must be purchased separately.

4. SAFETY INFORMATION

WARNING: To avoid fire, shock, or death; turn off power at the circuit breaker or fuse box and test that the power is off before wiring.

- This device is intended for installation in accordance with the National Electric Code and local regulations.
- It is recommended that a qualified electrician perform the installation.
- Do not use with non-dimmable loads, motor loads, or fluorescent lighting. This switch is designed for incandescent loads only.
- Ensure the total wattage of connected lights does not exceed 500 Watts.
- Do not install if the product appears damaged.

5. INSTALLATION INSTRUCTIONS

5.1 Before You Begin

1. **Turn off power** at the circuit breaker or fuse box for the light switch location.
2. Remove the existing wallplate and switch from the wall box.
3. Identify the line (hot), load, and ground wires. This switch does not require a neutral wire.

5.2 Wiring the Dimmer Switch

The X10 Dimmer Switch can be used in single-pole applications (controlling lights from one location) or 3-way/4-way applications (controlling lights from multiple locations). For multi-way applications, a companion switch (sold separately) is required.

- Connect the line (hot) wire to the designated terminal on the dimmer switch.
- Connect the load wire (to the light fixture) to the designated terminal on the dimmer switch.
- Connect the ground wire to the green ground screw on the dimmer switch.
- For multi-way installations, refer to the wiring diagram provided with your companion switch.

Secure all wire connections using screw terminals. Ensure no bare wire is exposed.

5.3 Final Steps

1. Carefully push the wired switch into the wall box.
2. Mount the switch to the wall box using the provided screws.
3. Attach the desired rocker paddle (white or ivory) to the switch.
4. Install a compatible wallplate (not included).
5. Restore power at the circuit breaker.

6. OPERATING INSTRUCTIONS

6.1 Local Control

- **Turn ON/OFF:** Press the top of the rocker to turn the light ON. Press the bottom of the rocker to turn the light OFF.
- **BRIGHTEN:** Press and hold the top of the rocker to gradually brighten the light. Release when the desired brightness is reached.
- **DIM:** Press and hold the bottom of the rocker to gradually dim the light. Release when the desired brightness is reached.
- The dimmer takes approximately 3 seconds to adjust lights from Off to Full Bright and vice versa.

6.2 Remote X10 Control

The X10 Dimmer Switch responds to standard X10 commands from compatible X10 controllers (sold separately). Ensure your X10 system is properly configured with the correct house and unit codes for the dimmer switch.

- **ON/OFF:** The switch will respond to X10 ON and OFF commands for its assigned unit code.
- **BRIGHTEN/DIM:** The switch will respond to X10 BRIGHTEN and DIM commands for its assigned unit code.
- **ALL LIGHTS ON:** The switch will respond to the X10 ALL LIGHTS ON command for its assigned house code.

6.3 Power Cutoff Switch

A small power cutoff switch is located directly below the main rocker switch. This allows you to safely cut power to the connected light fixture for bulb changing or maintenance without needing to go to the circuit breaker.

7. MAINTENANCE

- To clean the dimmer switch, ensure power is OFF at the circuit breaker.
- Wipe the surface with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the switch is completely dry before restoring power.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn ON/OFF locally.	- No power to the switch. - Incorrect wiring. - Bulb is burnt out or incompatible. - Power cutoff switch is engaged.	- Check circuit breaker. - Verify wiring connections (refer to Section 5.2). - Replace bulb; ensure it is dimmable incandescent. - Disengage the power cutoff switch.

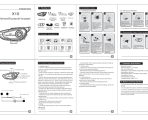| Problem	Possible Cause	Solution
Light does not respond to X10 commands.	• Incorrect X10 house/unit code. • X10 signal interference or weak signal. • X10 controller malfunction.	• Verify the X10 codes on the dimmer and controller match. • Try changing the X10 house code to avoid interference. • Consider installing an X10 phase coupler/bridge in your electrical panel to improve signal transmission across phases. • Test with a different X10 controller if available.
Light flickers or dims improperly.	• Incompatible bulb type (e.g., non-dimmable LED/CFL). • Load exceeds 500W capacity. • Loose wiring connection.	• Ensure only dimmable incandescent bulbs are used. • Reduce total wattage of connected bulbs. • Check and tighten all wiring connections.

9. SPECIFICATIONS

Model Number	WS12A
Brand	X10
Max Load	500 Watts Incandescent
Voltage	120V AC, 60Hz (Standard US Household)
Connectivity Protocol	X10
Wiring Requirements	Line, Load, Ground (No Neutral Required)
Applications	Single-pole, 3-way, 4-way (with companion switch)
Included Accessories	White and Ivory Rocker Paddles
Dimensions	Approx. 5.1 x 3.1 x 2.6 inches (Package Dimensions)
Item Weight	4 ounces
UPC	099081451214

10. WARRANTY AND SUPPORT

Specific warranty information for the X10 Dimmer Switch (WS12A) is not provided in this manual. For details regarding warranty coverage, technical support, or replacement parts, please contact the manufacturer directly or refer to the product packaging.

You may also visit the official X10 website for additional resources and contact information.

Related Documents - WS12A

	X10 PAM01/PAM02 Appliance Module: Remote Control for Home Devices Learn about the X10 PAM01/PAM02 Appliance Module, a non-dimming receiver that adds remote control capabilities to various household devices. Includes specifications, setup, installation, and warranty information.
	PHR04 RF Keychain Remote: X10 Wireless Control for Home Automation Learn about the X10 PHR04 RF Keychain Remote, its features, installation, and how to control your home's lights and appliances wirelessly with the PAT01 RF Base Transceiver. Includes warranty information.
	X10 Helmet Bluetooth Headset: Installation, Features, and Specifications Comprehensive instruction manual for the X10 Helmet Bluetooth Headset, covering packing list, installation, functions, operation, specifications, and safety precautions. Features include noise reduction, dual phone connectivity, and stereo music.
	FireCracker CM19A RF Computer Interface/Transceiver Installation Guide Installation instructions and warranty information for the X10 FireCracker CM19A RF Computer Interface/Transceiver. Learn how to set up the device with Windows XP, Vista, or 7 and connect it to your X10 home automation system.
	X10 Bluetooth Alarm Clock Speaker User Manual Comprehensive guide to the X10 Bluetooth Alarm Clock Speaker, covering its features, setup, and operation for Bluetooth, FM radio, AUX, and alarm functions. Includes instructions for brightness, sleep timer, night light, temperature display, clock settings, and USB charging.
	X10 Bone Conduction Wireless Headphones: User Manual & Instructions Comprehensive user manual for the X10 Bone Conduction Wireless Headphones, covering setup, controls, features, specifications, and important safety information.