

Installation (cont'd)/Startup

6. Connect line power and correction line wiring (E) to the Molex connector (G). White to neutral, black to positive/hot, and green to ground.

7. Join the Molex connectors (G & H) together, placing excess wiring and Molex connectors into the gang box.

Chassis ground MUST be connected to conduit/Earth ground to provide proper protection from electric shock.

CAUTION: Electric Shock Hazard! When making installation, route field wiring away from sharp projections, corners, and internal components.

8. Re-attach the cover assembly (B) to the enclosure base (C) using the sheet metal screws (A) removed in Step 1.

Startup

When power is applied to the clock for the first time, it will scroll its firmware version number (i.e. 1234 5678), followed by a digit check (all digit segments and dots will be illuminated) and scrolling dashes/underscores. Once this is complete, the clock will display a time based off the internal real-time clock until it receives its time from the master. Until the clock receives the time from the master, the colons between the digits will flash. Note that the clock may receive a signal from the master immediately, in which case the colons will not flash after the digit check.

If installing a new SSIQ system controller, clocks should be installed within 24 hours of installing the controller. After 24 hours, the controller will enter Quiet Mode; if this is active, clocks may take up to 24 hours to synchronize their time. If your controller has a keypad, pressing 3-5-7 on the keypad will disable Quiet Mode for six hours.

If the colons between the digits remain flashing for more than 24 hours, the clock is not receiving a signal from the master. Reference the troubleshooting section in the manual for the SSIQ system controller (provided with controller) for further guidance. Manuals can be accessed electronically at www.american-time.com/support/product-documentation. Select "manuals" and search "SiteSync."

Contact American Time technical support for further troubleshooting at 800-328-8996.

Flush-Mount SSIQ Digital Clock Quick Start Installation Guide



Please read this first!

If this is your first installation or you have questions at any time during this process, please call American Time toll free at **800-328-8996**.

Introduction

American Time flush-mount SSIQ digital clocks are multi-function corrective clocks, using SiteSync IQ wireless correction protocol to connect to the SSIQ master clock. These clocks use the correction protocol to continuously update the time and perform adjustments for Daylight Saving Time.

6-digit flush mount clocks can be used with the optional Timer Control Station (TCS) to perform Elapsed Time Indicator (ETI) and Code Blue functions. Instructions on controlling the ETI and Code Blue features are covered in the TCS documentation.

6-digit clocks can also display the date if configured as a calendar clock (optional).



Safety

WARNING: Hazardous voltage in electrical equipment can cause severe personal injury or death. Inspection, installation, and preventive maintenance should only be performed on equipment to which power has been turned off, disconnected and electrically isolated so no accidental contact can be made with energized parts.

CAUTION: This equipment contains electronic devices that are sensitive to static electric charges. To guarantee protection for the circuitry of this unit, it is required that electrostatic handling precautions be observed when installing or repairing this equipment. Any technician or other personnel working on this unit must wear a static grounding wrist strap or similar device to provide protection of sensitive components.

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Specifications

	SSIQ
Weight	6.5 lbs (3 kg)
Box Dimensions	12.4375" x 7.375" x 3.625" WxHxD (31.5 x 18.7 x 9.2)
Faceplate Dimensions	13.5" x 8.5" WxH (34.3 x 21.6 cm)
Line Voltage	24, 120, or 220VAC
Code Blue Current	3.0mA maximum at 12-30VAC/VDC
Operating Temperature	30°-104°F (0°-40°C)
Humidity	95% relative humidity at 86°F (30° C) maximum, non-condensing
Display Modes	12-hour or 24-hour, set by master controller
Accuracy	±1 second
Certifications	Electromagnetic Emissions EN 55032:2012/AC:2013 Class B FCC 15.107:2018 Class B FCC 15.109:2018 Class B

	Power Consumption (red)		
	24V	120V	220V
SSIQ, 2.5" 6-digit	281mA	78mA	70mA
SSIQ, 4" 4-digit	212mA	62mA	60mA

Maintenance/Diagnostics

General Maintenance

American Time digital clocks require minimal maintenance. Cleaning should be done with nothing more than a microfiber towel, moistened with water or a mild alcohol solution. No abrasive materials should be used to clean the clock, as it will result in scratching of the case or lens.

Avoid contact with the internal components of the clock when unpacking or preparing for installation, or if the clock is disconnected after installation. Contact with the internal components when the clock is not grounded can result in electrostatic discharge, which could damage the clock.

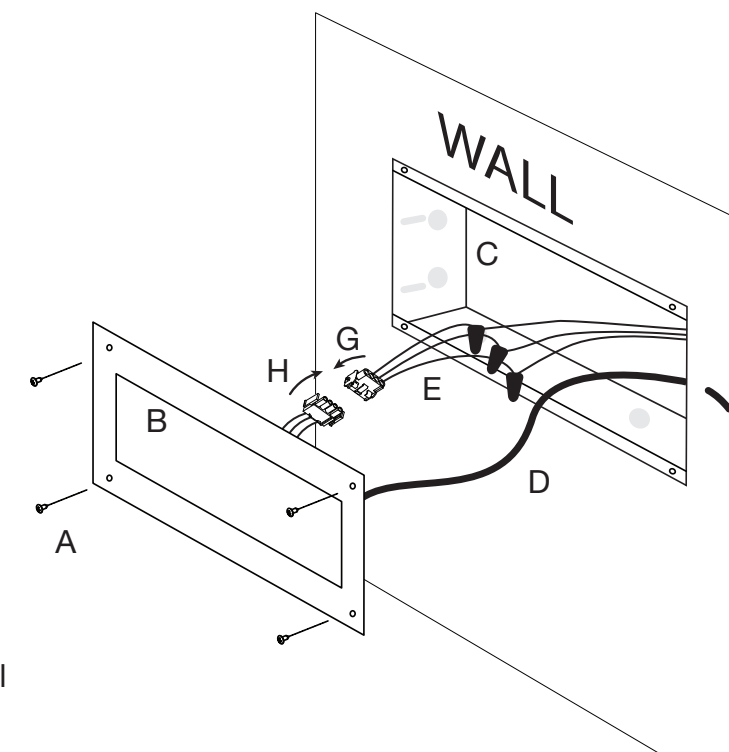
Installation

The flush-mount digital clock is designed to be mounted into a wall cavity, similar to a single or double gang box. Ensure that installation conforms to the National Electrical Code and local wiring codes.

NOTE: If installing the clock to be used with a Timer Control Station, the clock and TCS must be no more than 30-ft apart.

CAUTION: Electric Shock Hazard! Ensure that NO electrical power is present on any wire before installation.

1. Remove the four sheet metal screws (A) that hold the cover assembly (B) and enclosure base (C) together. Be sure to keep the sheet metal screws for reassembly.
2. Mount the enclosure base (C) into the wall by attaching the side of the back box to a stud. Opening is 12.5" x 7.4" x 3.629".



If you are installing a Timer Control Station, proceed to Step 3. To finish clock installation without a Timer Control Station, proceed to Step 6.

3. Pull the wiring from the Timer Control Station (D) through the knockouts in the enclosure.
4. Connect the Timer Control Station wiring to the provided terminal plugs. See wiring detail in the ATSTCS documentation for detailed wiring information.
5. Connect the terminal plug(s) to the terminal blocks on the clock as described in the ATSTCS documentation.