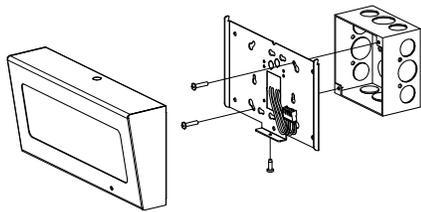


System Setup

This clock is part of a wired clock system controlled by a master clock. TimeCast™ Wired Digital Clocks will automatically interpret popular reset formats. The correction format can be changed through the user interface on the side of the clock to switch between 2- or 3-wire modes or to only accept certain reset formats. If the TimeCast™ Wired Digitals are part of a two wire clock system with a National Time master clock, an On-Demand reset can be performed to send the clocks to the correct time right away.

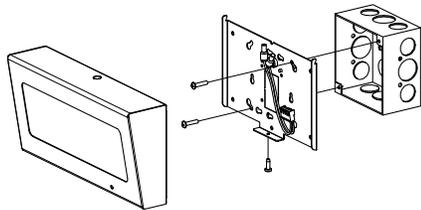
To view product manuals and all related documentation, visit our website at www.natsco.net
Also, check out our installation videos on the National Time & Signal YouTube channel.

Mounting Instructions



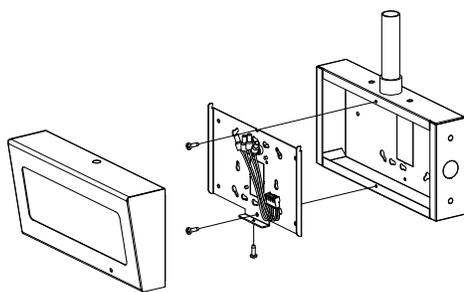
24V Clocks with Standard Hanger Bracket

The Standard Hanger Bracket is included with all TimeCast™ digital clocks. The bracket mounts to a securely mounted handy, single gang, double gang, or 4 square electrical box. Route the included wire harness through the large knock-out in the center of the bracket. The screw in the bottom flange of the hanger bracket is used to secure the clock in place.



120V Hard Wired Transformer

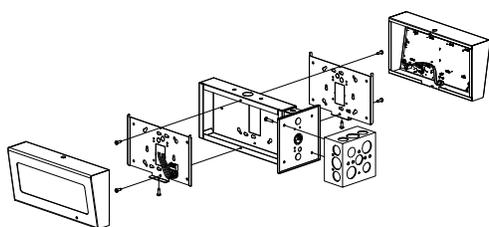
For 120V clocks, a transformer is mounted to the back of the Standard Hanger Bracket, and a Deep 4 Square electrical box is required. Connect the 120VAC wires to the transformer and mount the bracket to the Deep 4 Square box with the transformer inside the box. Use the screw in the bottom flange of the hanger bracket to secure the clock in place.



Surface Mount Installation

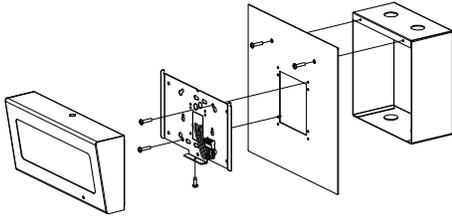
Surface Box P/N: *D225-SURF BOX or D225-6-SURF BOX*
D400-SURF BOX or D400-6-SURF BOX

The Standard Hanger Bracket can also mount to a Surface Mount Box (sold separately) with knock-outs for conduit entry. The Surface Box is reversible to allow conduit entry from any side. With the Surface Box mounted to the wall, attach the hanger bracket to the front of the Surface Box. Use the screw in the bottom flange of the hanger bracket to secure the clock to the Surface Box.



Double Face Installation

The Double Face Bracket mounts to a securely installed 4 Square electrical box and can be configured for both wall mount and ceiling mount installations. The Double Face Bracket for D400 clocks includes extra mounting holes so that additional wall anchors can be used for increased stability. For more detailed double face assembly instructions, see Bulletin C-619.

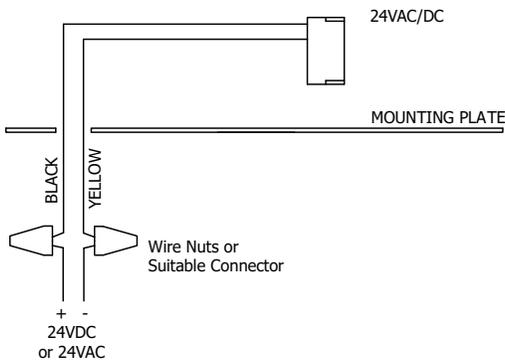


Flush Mount Adapter Bracket (P/N: ADAPT-143)

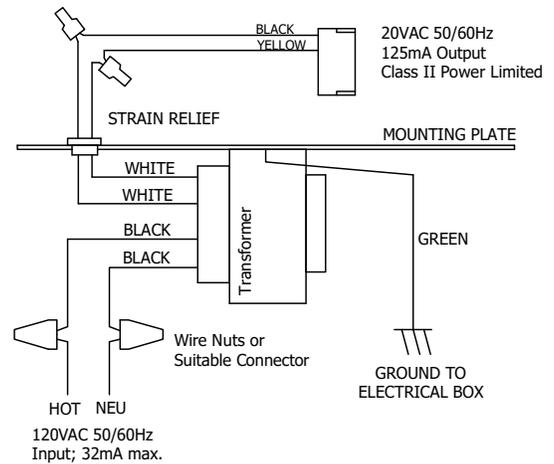
Adapter bracket allowing D225 and D400 digital clocks to mount to existing National Time 143 Flush Clock Box. The adapter bracket has two hole patterns for mounting the digital clock Standard Hanger Bracket. Use the upper hole pattern for D225 clocks so the clock is centered on the adapter bracket. The lower hole pattern is for D400 clocks to provide clearance between the clock and the screws that mount the adapter to the 143 Wall Box.

Wiring Diagrams

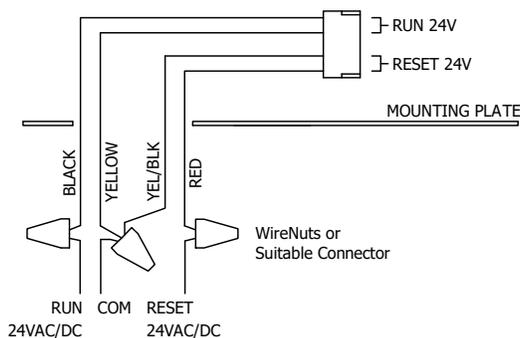
2-Wire 24V System



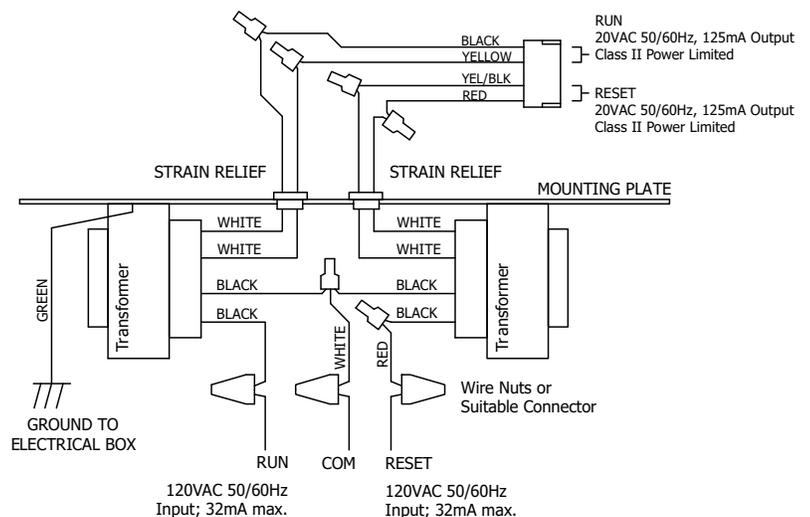
2-Wire 120V Transformer



3-Wire 24V System



3-Wire 120V Transformer



Count Down Timer Wiring

For class change count-down timer function, wire as a 3-wire clock. The master clock and TimeCast™ Digital must be setup for a 2-wire system. Set the Timer Type to *Count-Down* for a count-down timer or *Count-Up* for a count-up timer. Energize the RESET wires to initiate the count-down or count-up sequence. Refer to Bulletin C-629 for timer instructions.