

Solid State Timer

312055A

EN

Used in a lubrication system to control the duration of the on and off cycles. For professional use only.

Not approved for use in explosive atmospheres or hazardous locations.

Part No.: 562872



Important Safety Instructions

Read all warnings and instructions in this manual. Save all instructions.



ti24492a

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

 WARNING	
 	<p>ELECTRIC SHOCK HAZARD</p> <p>This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> • Turn off and disconnect power at main switch before disconnecting any cables and before servicing or installing equipment. • Connect only to grounded power source. • All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.
 	<p>EQUIPMENT MISUSE HAZARD</p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • Do not operate the unit when fatigued or under the influence of drugs or alcohol. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheet (SDS) from distributor or retailer. • Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use. • Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only. • Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. • Make sure all equipment is rated and approved for the environment in which you are using it. • Use equipment only for its intended purpose. Call your distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or over bend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	<p>PERSONAL PROTECTIVE EQUIPMENT</p> <p>Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear, and hearing protection. • Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Installation

General Information

<p>AUTOMATIC SYSTEM ACTIVATION HAZARD</p> <p>Unexpected activation of the system could result in serious injury, including skin injection and amputation.</p> <p>This device has an automatic timer that activates the pump lubrication system when power is connected or when exiting the programming function. Before you install or remove the Lubrication Controller from the system, disconnect and isolate all power supplies and relieve all pressure.</p>				

- Built-in memory keeps timer “alive” for 1-1/2 hours during power failures and machine shutdown.
- Built-in memory suspends timing when power is interrupted.
- On restart, the cycle time continues from the point where it was suspended eliminating pre-lube when power is reapplied after short machine shutdowns.
- Face-mounted LED displays timer status. LED is “lighted” during “on” time.

Grounding

<p>The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electrical current.</p>				

Timer Installation

<p>Disconnect and lock out power before opening cover to prevent electric shock.</p>				

1. Disconnect input and load power supplies at the source.
2. Remove two screws (a) and lift out circuit board. (FIG. 1).

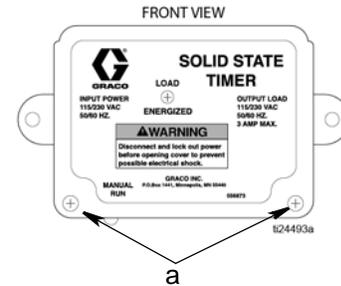


FIG. 1

3. Install 1/2-inch conduit connector in the 0.840 diameter hole (b) at the bottom of the timer.

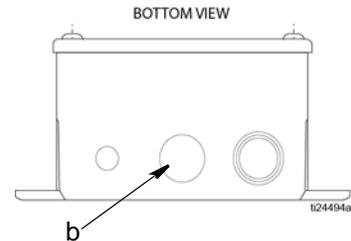


FIG. 2

4. Connect input power leads to input terminals 110/220 VAC, 50/60 HZ (FIG. 3)

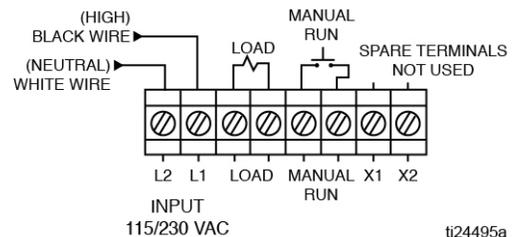


FIG. 3

5. Connect load leads to load terminals, 100 VAC, 50/60 HZ, 3 Amp max (FIG. 3).
6. Connect remote manual run if desired. Switch contacts only. NOT 110 VAC (FIG. 3).
7. Install the timer board with two #6 x 1/2 in. screws supplied, tightening torque to 5 in-lbs (0.56 N.m).
8. Set timer on and off times. See Setting the Timer on page 4.
9. Close and fasten cover with two #10 x 3/4 in. screws (a) supplied, tightening torque to 7 in-lbs (0.79 N.m) max. (FIG. 1).
10. Reconnect the power. A total cycle will begin with the “on” time period as previously set.

A “total cycle time” must not be less than the “on time” or the timer will remain in the “on” condition continuously.

Setting the Timer

- Total cycle times can be set from 1/2 minute to 32 hours.
- “On” time during the total cycle can be set from 12 seconds to 13 minutes.
- “On” time occurs at the beginning of each period.



1. Remove cover.
2. Use a screw driver
 - Turn screw (c) clockwise to increase “on” time.
 - Turn screw (d) clockwise to increase total cycle time. (FIG. 4)

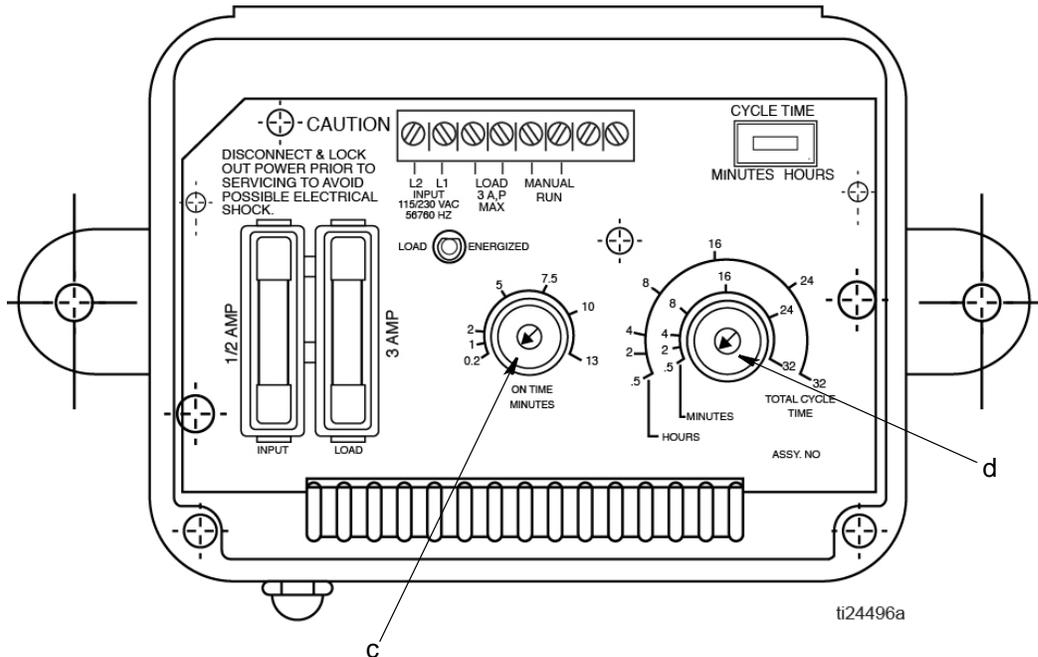
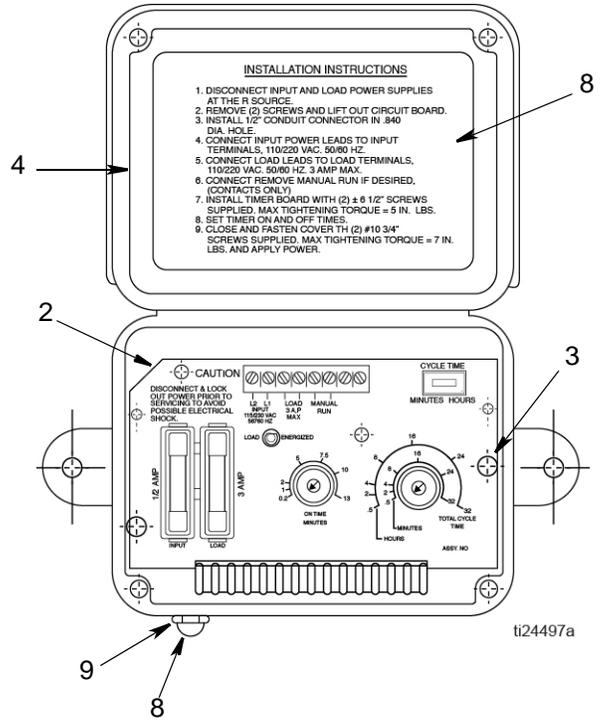
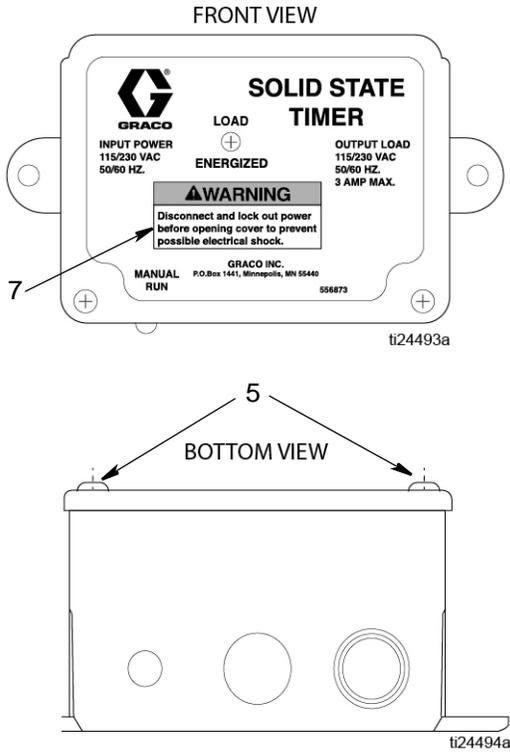


FIG. 4

Parts



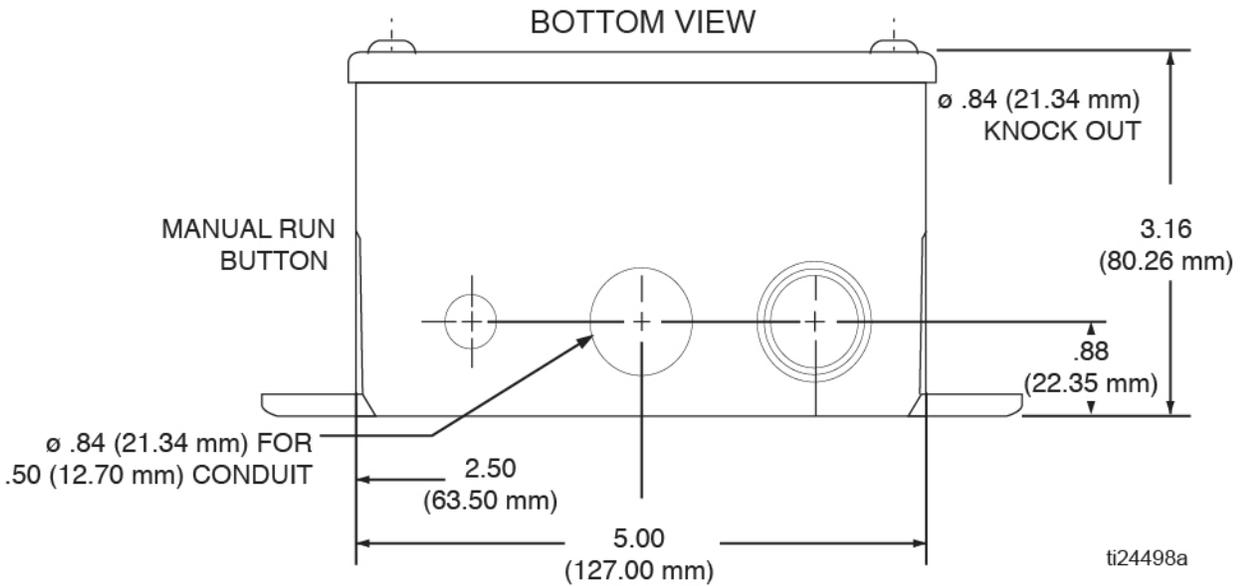
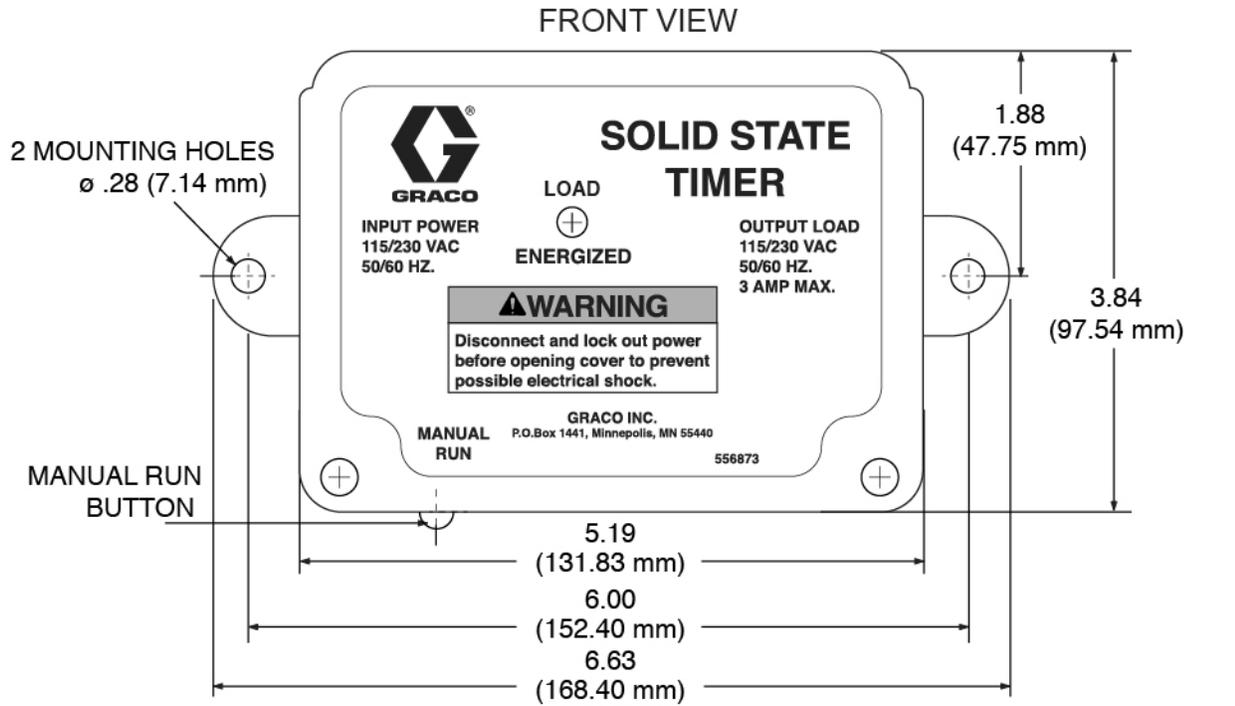
Ref.	Part	Description	Qty.
	562872	TIMER, solid state	
1	557201	ENCLOSURE, solid state timer	1
2		BOARD, circuit, timer	1
3		SCREW, 6 x .62 ty a/b phil pan hd	2
4		GASKET, enclosure solid state timer	1
5		SCREW, 12 x .62 pan hd (not shown)	2
6		BUTTON, push low press pump	1
7▲	556873	LABEL, safety, Warning, Electric Shock	1
8		LABEL, timer, instructions	1
9		BOOT, push button	1

▲ Replacement Danger and Warning labels, tags and cards are available at no cost.

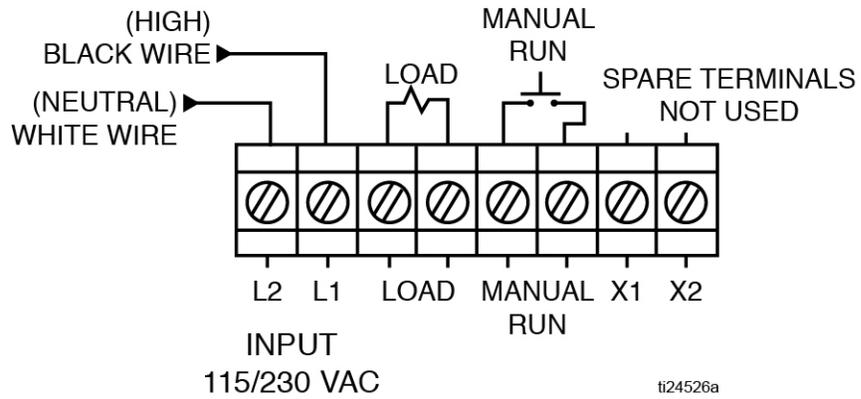
Fuses: Fast-Blow - Input Fuse: AGC 1/2 AMP, Load Fuse ABC 3 AMP

Dimensions

inches (mm)



Wiring Diagram



Technical Data

Solid State Timer		
	US	Metric
Electrical	115/230 VAC, 50/60 Hz, 3 ampere (max), 10	
Enclosure	High Impact Plastic	
Temperature Range		
Operating	0°F - 131°F	-18°C - 55°C
Storage	-67°F - 185°F	-55°C - 85°C
Cycle Interval		
Cycle Time Range (Minutes)	0.5 - 30 minutes	
Cycle Time Range (Hours)	0.5 - 32 hours	
On-time	0.2 - 13 minutes	
Vibration	5g's, 50 Hz	

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

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For patent information see, www.graco.com/patents.

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Original instructions. This manual contains English. MM 3A3429

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