## 8670 SERIES MANUAL



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## PRODUCT INFORMATION

Please take a moment to fill out the information below in order to aid us with any future sales or senvice inquiries. Model number and serial number information can be found on the serial tag located inside the control box and/or on the lower exterior of the can. Key number can be found on the tag that comes attached to the keys. There may be more than one key number depending on unit.

Please keep this information with your records.

MODEL\#: $\qquad$
SERIAL\#: $\qquad$
KEY NUMBER(S): $\qquad$
DATE PURCHASED: $\qquad$
DISTRIBUTOR: $\qquad$
J.E. Adams Industries $102563^{\text {rd }}$ Ave. S.W.
Cedar Rapids, IA 52404
1-800-553-8861
www.jeadams.com

## SPECI FICATIONS:

## Unit specifications:

| Voltage: |
| :--- |
| Amperage: |
| Weight: |
| Air specifications: |
| Compressor: |


| Compressor: | Dependant on Model \# ordered |
| :--- | :--- |
|  | Thomas 120vac@60hz, $3 / 4 \mathrm{hp}$ twin head |
|  | Thomas 120vac@60hz, $3 / 4 \mathrm{hp}-$ non twin head |
|  | Devilbiss 120vac@60hz, $11 / 2 \mathrm{hp@1725rpm}$ |
|  | Devilbiss 120vac@60hz, 3hp@3450rpm |
|  | Gast 120vac@60hz, 3/4 hp- twin head |
|  |  |
| Timer: | SSAC and Infitec ASCR54 |

Water specifications:
Solenoid: 120vac@60hz

NOTE: "UNIT I NTENDED FOR COMMECI AL USE ONLY"

| Duty cycle: | 4 minutes run time- max |
| :--- | :--- |
| 4 minutes off time |  |

## I MPORTANT SAFETY I NSTRUCTI ONS

When using an electrical appliance, basic precautions should always be followed, including the following:

## READ ALL I NSTRUCTI ONS BEFORE USI NG (THIS APPLI ANCE)

WARNI NG - To reduce the risk of fire, electric shock, or injury:

- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Never use air nozzle for anything other than for its intended use.


## SAVE THESE I NSTRUCTI ONS

## I nstallation I nstructions:

- Determine location to mount unit ("DANGER" "THIS EQUI PMENT I NCORPORATES PARTS SUCH AS SWI TCHES, MOTORS, OR THE LI KE THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSI ON. WHEN LOCATED I N GASOLI NE-DI SPENSI NG AND SERVI CE STATI ONS I NSTALL AND USE AT LEAST 20 FEET (6 M) HORI ZONTALLY FROM THE EXTERI OR ENCLOSURE OF ANY DI SPENSI NG PUMP AND AT LEAST 18 I NCHES (450 MM) ABOVE A DRI VEWAY OR GROUND LEVEL."
- Run service to that location
- Grounding Instructions: This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.
- See next page for bolt pattern.

AIR MACHINE MOUNTING DIMENSIONS


## TIMER SETUP - SSAC TIMERS



Figure 3: SSAC timer setup
Figure 3 shows an SSAC timer set for 1 coin to start and 3.8 minutes per coin for a total run time of 3.8 minutes ( 3 minutes and 48 seconds).

Note: "AE" and "AN" model SSAC timers are accumulating timers. During use, timing can be extended proportionately by adding more coins.
The SSAC timer has two adj ustable settings: Time per coin (in minutes) and number of coins to start.

## Time per coin:

Time per coin is the amount of time the unit will run per coin inserted and can be set from 0.1 minutes ( 6 seconds) to 12.7 minutes ( 12 minutes and 42 seconds) in increments of 6 seconds by turning on the correct switches until their values equal the desired time. Refer to Tables 2 and 3 (pages 11-12) for standard timer and coin settings. For custom settings, follow the steps below:

1. Figure the total time your vac will run (in minutes) and divide that number by the number of coins to start. This is your time per coin. Round up or down to the nearest tenth of a minute.
2. Subtract the largest value switch (initially 6.4) from your time per coin.
a. If the resulting number is zero, move the switch to the "on" position and set all remaining un-set switches in the "off" position. Your timer is now set.
b. If the resulting number is positive, move the switch into the "on" position. Using the resulting number as your new time per coin, repeat step 2 with the next largest switch value.
c. If the resulting number is negative, set the switch in the "off" position and repeat step 2 using the next largest switch value.
Coins to start:
Coins to start is the amount of coins needed to activate the timer and can be set from one to seven coins in increments of one coin. Refer to Table
2 (page 10) for switch settings

The Infitec timer has two adj ustable settings: Total run time (in seconds) and number of coins to start.

## Total run time:

Total run time is the amount of time the unit will run once activated and can be set from 1 second to 1023 seconds ( 17 minutes and 3 seconds) in increments of 1 second by turning on the correct switches until their values equal the desired time. Refer to Tables 2 and 3 (pages 11-12) for standard timer and coin settings. For custom settings, follow the steps below:

1. Figure the total time your vac will run (in seconds). This is your total run time. Round up or down as desired.
2. Subtract the largest value switch (initially 512) from your total run time.
a) If the resulting number is zero, move the switch to the "on" position and set all remaining un-set switches in the "off" position. Your timer is now set.
b) If the resulting number is positive, move the switch into the "on" position. Using the resulting number as your new time per coin, repeat step 2 with the next largest switch value.
c) If the resulting number is negative, set the switch in the "off" position and repeat step 2 using the next largest switch value.

## Coins to start:

Coins to start is the amount of coins needed to activate the timer and can be set from one to 15 coins in increments of one coin. Refer to Table 2 (page 10) for switch settings.


INFITEC TIMER

|  |  | IDX Timers: Time Per Coin (In Seconds) Infitec Timers: Total Run Time (In Seconds) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ம | $\bigcirc$ | $\stackrel{\sim}{\square}$ | 은 | $\stackrel{1}{\sim}$ | - | $\stackrel{\sim}{m}$ | 악 | $\stackrel{1}{8}$ | ค | 난 |  | ㅇ | 8 | 8 | O- | $\begin{aligned} & \mathrm{O} \\ & 7 \end{aligned}$ |  | $\underset{\sim}{c}$ | $\underset{A}{7}$ | ${ }_{c}^{\circ}$ | $\stackrel{0}{7}$ | $\stackrel{\mathrm{O}}{\mathrm{I}}$ |  |  | $\stackrel{\mathrm{N}}{\mathbf{N}}$ | $\stackrel{\mathrm{N}}{\mathrm{~N}}$ | $\stackrel{\sim}{N}$ | N্N |  | $\stackrel{0}{\mathrm{~N}}$ | $\stackrel{0}{0}$ | $\stackrel{\mathrm{O}}{\mathrm{~N}}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\circ}{\mathrm{N}}$ | ¢ |
| × | 1 | x |  | x |  | x |  | x |  | x |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 |  | x | x |  |  | x | x |  |  | x | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  |
| た | 4 | x |  | x | x |  | x |  |  | x |  | x | x | x |  |  | x | x |  |  | x | x |  |  | x | x |  |  | x | X |  |  | x | X |  |  | x |
| O | 8 |  | x | x |  | x | x |  | x | x |  |  | x |  |  | x |  | x | x |  | x |  |  | x |  | x | x |  | x |  |  | x |  | x | x |  | X |
| t | 16 |  |  |  | x | x | x |  |  |  | x | x | x |  | $\mathbf{x}$ | x |  |  | x |  |  | x |  |  | x | x |  | x | x |  | x | x |  |  | x |  |  |
| $\underline{ }$ | 32 |  |  |  |  |  |  | x | x | x | x | x | x |  |  |  | x | x | x |  |  |  | x | x | x | x |  |  |  | x | X | x |  |  |  | x | x |
|  | 64 |  |  |  |  |  |  |  |  |  |  |  |  | x | x | x | x | x | x |  |  |  |  |  |  |  | x | x | x | x | x | x |  |  |  |  |  |
|  | 128 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | x | x | x | $\mathbf{x}$ | x | x | x | x | x | x | x |  |  |  |  |  |
|  | 256 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | x | x | x |
|  | 512 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  |  | Time Per Coin (In minutes) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 命 } \\ & \vdots \end{aligned}$ |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \underset{\sim}{-} \\ & 0 \\ & \hline \end{aligned}$ | $\begin{gathered} o \\ 0 \\ 0 \\ \underset{~}{1} \\ N \\ 0 \\ \hline \end{gathered}$ | $\begin{gathered} o \\ \underset{\sim}{0} \\ 0 \\ 0 \\ \underset{\sim}{m} \\ 0 \\ 0 \end{gathered}$ |  | $\left\|\begin{array}{c} o \\ 0 \\ 0 \\ 0 \\ \underset{\sim}{n} \\ 0 \\ 0 \end{array}\right\|$ | $\begin{array}{\|c\|} \hline 0 \\ 0 \\ 0 \\ 0 \\ \\ 0 \\ 0 \\ \hline \end{array}$ |  | $\begin{gathered} o \\ \dot{\sim} \\ 0 \\ \underset{\sim}{\infty} \\ \infty \\ 0 \\ 0 \end{gathered}$ | $\left.\begin{gathered} o \\ 0 \\ \omega \\ \vdots \\ \vdots \\ 0 \\ 0 \\ 0 \end{gathered} \right\rvert\,$ | $0$ | $\begin{aligned} & \mathrm{H} \\ & \mathrm{i} \end{aligned}$ | $\begin{gathered} \mathrm{N} \\ \mathbf{i} \end{gathered}$ | $\begin{aligned} & \mathrm{m} \\ & \rightarrow \end{aligned}$ | $\begin{gathered} \mathrm{t} \\ i \end{gathered}$ | $\begin{array}{\|c\|c\|} \hline \\ - \\ \hline \end{array}$ | $\begin{gathered} 0 \\ - \end{gathered}$ | $\stackrel{Y}{i}$ | $\left\lvert\, \begin{aligned} & \infty \\ & \rightarrow \end{aligned}\right.$ | $\underset{i}{9}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{i} \end{aligned}$ | $\stackrel{\mathrm{L}}{\mathrm{~N}}$ | $0$ | $\begin{array}{\|c} \hline \infty \\ \hline \end{array}$ | $\stackrel{O}{\mathrm{j}}$ | $\stackrel{\stackrel{\circ}{8}}{8}$ | $0$ | $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|l\|} \hline \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{L} \\ & \boldsymbol{0} \\ & \hline \end{aligned}$ | $\stackrel{0}{\sim}$ | $\stackrel{\stackrel{1}{\sim}}{\sim}$ | $0$ | $\begin{array}{\|l\|l\|l\|} \hline \\ \infty \\ \hline \end{array}$ | $0$ | $\stackrel{1}{0}$ | - |
| $\left\lvert\, \begin{aligned} & F \\ & u \end{aligned}\right.$ | 0.1 | x |  | x |  | x |  | X |  | x |  | x |  | x |  | x |  | x |  | X |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  |
| $\underset{\infty}{\infty}$ | 0.2 |  | x | x |  |  | x | x |  |  | x | x |  |  | X | x |  |  | x | x |  |  | x | x |  |  | X | x |  |  | x | x |  |  | x | x |  |
|  | 0.4 |  |  |  | x | X | x | x |  |  |  |  | X | x | X | X |  |  |  |  | X |  | x |  |  | x |  | X | x |  | x |  |  | x |  | X | x |
|  | 0.8 |  |  |  |  |  |  |  | x | x | x | x | X | X | X | x |  |  |  |  |  | x | x |  | X | x |  |  | x |  |  | x |  |  | x | X |  |
|  | 1.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | x | x | x | x | x |  |  |  | x | x | x |  |  |  | x | X | x | x |  |
|  | 3.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | x | x | x | x |  |  |  |  |  |  |  | x |
|  | 6.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | X | X | X | x | X | x |



Table 2: Timer Settings Chart
Note: "X" indicates a switch in the "on" position

| IDX TIMER SETTINGS |  |  | SSAC TIMER SETTINGS |  |  | INFITEC TIMER SETTINGS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amount to Start | Total Run Time | Switches in "On" Position | Amount to Start | Total Run Time | Switches in "On" Position | Amount to Start | Total Run Time | Switches in "On" Position |
| 25¢ | 2 MIN | 8, 16, 32, 64 | 25¢ | 2 MIN | 0.4, 1.6 | 25¢ | 2 MIN | 8, 16, 32, 64 |
| 25¢ | 2-1/2 MIN | 2, 4, 16, 128 | 25¢ | 2-1/2 MIN | 0.1, 0.8, 1.6 | 25¢ | 2-1/2 MIN | 2, 4, 16, 128 |
| 25¢ | 3 MIN | 4, 16, 32, 128 | 25¢ | 3 MIN | $0.2,0.4,0.8,1.6$ | 25¢ | 3 MIN | 4, 16, 32, 128 |
| 25¢ | $3-1 / 2 \mathrm{MIN}$ | 2, 16, 64, 128 | 25¢ | 3-1/2 MIN | 0.1, 0.2, 3.2 | 25¢ | 3-1/2 MIN | 2, 16, 64, 128 |
| 25¢ | 4 MIN | 16, 32, 64, 128 | 25\$ | 4 MIN | 0.8, 3.2 | 25¢ | 4 MIN | 16, 32, 64, 128 |
| 25\$ | 4-1/2 MIN | 2, 4, 8, 256 | 25\$ | 4-1/2 MIN | 0.1, 0.4, 0.8, 3.2 | 25\$ | 4-1/2 MIN | 2, 4, 8, 256 |
| 25¢ | 5 MIN | 4, 8, 32, 256 | 254 | 5 MIN | 0.2, 1.6, 3.2 | 25¢ | 5 MIN | 4, 8, 32, 256 |
| 25¢ | 5-1/2 MIN | 2, 8, 64, 256 | 25¢ | 5-1/2 MIN | 0.1, 0.2, 0.4, 1.6, 3.2 | 25¢ | 5-1/2 MIN | 2, 8, 64, 256 |
| 50¢ | 2 MIN | 4, 8, 16, 32 | 50¢ | 2 MIN | 0.2, 0.8 | 50¢ | 2 MIN | 8, 16, 32, 64 |
| 50¢ | 2-1/2 MIN | 4, 8, 64 | 50¢ | 2-1/2 MIN | * | 50¢ | 2-1/2 MIN | 2, 4, 16, 128 |
| 50¢ | 3 MIN | 2, 8, 16, 64 | 50¢ | 3 MIN | $0.1,0.2,0.4,0.8$ | 50¢ | 3 MIN | 4, 16, 32, 128 |
| 50¢ | 3-1/2 MIN | 2, 8, 32, 64 | 504 | 3-1/2 MIN | * | 50¢ | 3-1/2 MIN | 2, 16, 64, 128 |
| 50¢ | 4 MIN | 8, 16, 32, 64 | 50¢ | 4 MIN | 0.4, 1.6 | 50¢ | 4 MIN | 16, 32, 64, 128 |
| 50¢ | 4-1/2 MIN | 8, 128 | 50¢ | 4-1/2 MIN | * | 50¢ | 4-1/2 MIN | 2, 4, 8, 256 |
| 50¢ | 5 MIN | 2, 4, 16, 128 | 50¢ | 5 MIN | $0.1,0.8,1.6$ | 50¢ | 5 MIN | 4, 8, 32, 256 |
| 50¢ | 5-1/2 MIN | 2, 4, 32, 128 | 50¢ | 5-1/2 MIN | * | 50¢ | 5-1/2 MIN | 2, 8, 64, 256 |
| 75¢ | 2 MIN | 8, 32 | 75¢ | 2 MIN | * | 75¢ | 2 MIN | 8, 16, 32, 64 |
| 75¢ | 2-1/2 MIN | 2, 16, 32 | 75¢ | 2-1/2 MIN | * | 75¢ | 2-1/2 MIN | 2, 4, 16, 128 |
| 75¢ | 3 MIN | 4, 8, 16, 32 | 75¢ | 3 MIN | 0.2, 0.8 | 75¢ | 3 MIN | 4, 16, 32, 128 |
| 75¢ | $3-1 / 2 \mathrm{MIN}$ | 2, 4, 64 | 75¢ | 3-1/2 MIN | * | 75¢ | 3-1/2 MIN | 2, 16, 64, 128 |
| 75¢ | 4 MIN | 16, 64 | 75¢ | 4 MIN | * | 75¢ | 4 MIN | 16, 32, 64, 128 |
| 75¢ | 4-1/2 MIN | 2, 8, 16, 64 | 75¢ | 4-1/2 MIN | * | 75¢ | 4-1/2 MIN | 2, 4, 8, 256 |
| 75¢ | 5 MIN | 4, 32, 64 | 75¢ | 5 MIN | * | 75¢ | 5 MIN | 4, 8, 32, 256 |
| 75¢ | 5-1/2 MIN | 2, 4, 8, 32, 64 | 75¢ | 5-1/2 MIN | * | 75¢ | 5-1/2 MIN | 2, 8, 64, 256 |
| \$1.00 | 2 MIN | 2, 4, 8, 16 | \$1.00 | 2 MIN | 0.1, 0.4 | \$1.00 | 2 MIN | 8, 16, 32, 64 |
| \$1.00 | 2-1/2 MIN | 2, 4, 32 | \$1.00 | 2-1/2 MIN | * | \$1.00 | 2-1/2 MIN | 2, 4, 16, 128 |
| \$1.00 | 3 MIN | 4, 8, 32 | \$1.00 | 3 MIN | * | \$1.00 | 3 MIN | 4, 16, 32, 128 |
| \$1.00 | $3-1 / 2 \mathrm{MIN}$ | 2, 4, 16, 32 | \$1.00 | 3-1/2 MIN | * | \$1.00 | 3-1/2 MIN | 2, 16, 64, 128 |
| \$1.00 | 4 MIN | 4, 8, 16, 32 | \$1.00 | 4 MIN | 0.2, 0.8 | \$1.00 | 4 MIN | 16, 32, 64, 128 |
| \$1.00 | 4-1/2 MIN | 4,64 | \$1.00 | 4-1/2 MIN | * | \$1.00 | 4-1/2 MIN | 2, 4, 8, 256 |
| \$1.00 | 5 MIN | 4, 8, 64 | \$1.00 | 5 MIN | * | \$1.00 | 5 MIN | 4, 8, 32, 256 |
| \$1.00 | 5-1/2 MIN | 4, 16, 64 | \$1.00 | 5-1/2 MIN | * | \$1.00 | $5-1 / 2 \mathrm{MIN}$ | 2, 8, 64, 256 |

## Table 3: Typical Timer Settings

Note: "*" denotes a configuration that is not possible with this timer. See Table 2 for the closest approximation to this time

## MAINTENANCE

Check air nozzle for signs of wear and abuse. Replace as needed.

- Clean air cabinet as needed with a non abrasive stainless steel cleaner.
- Examine air hose for cuts or wear and replace as needed.
- Every month remove filter from compressor and clean.






## TROUBLESHOOTING INFORMATION:

| STARTS BUT NO PRESSURE | SYSTEM LEAKING | CHECK AIR HOSE FOR LEAKS AND AIR CHUCK. ALSO CHECK FOR LEAKS AROUND COMPRESSOR. |
| :---: | :---: | :---: |
|  | CHUCK IS CLOGGED | CHECK AIR CHUCK TO MAKE SURE NO DEBRIS IS AIR PATH. ALSO CHECK ORING AROUND AIR CHUCK, IS IT BLOCKING THE AIR PATH. |
|  | UNLOADER | IS IT UNLOADING ALL THE TIME? |
|  | PARTS DAMAGED OR WORN OUT. | SLEEVE IN COMPRESSOR MAY BE PITTED OR SCRATCHED UP. PISTON ORING MAY BE WORN OR DAMAGED. DEBRIS IN VALVE PLATE OPENING IS NOT ALLOWING IT TO SHUT. <br> REPAIR KIT MAY BE NEEDED. |

