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NATURE S GENERATOR NGA03030816N Automatic Generator Transfer Switch



### **Specifications**

Model: NGA03030816N (30A, 8 Spaces, 16 Circuits) / NGA05031224N (50A, 12 Spaces, 24 Circuits)

• Power Input: 120/240V

• Enclosure: NEMA type 1

# **Product Usage Instructions**

### **Unpack Your Automatic Transfer Switch**

- 1. Automatic Transfer Switch
- 2. User Manual
- 3. Manual Override Handle
- 4. Power Cord
- 5. Inlet (For 30A Model)
- 6. Inlet Box and Cover (For 50A Model)

#### **Install Your Automatic Transfer Switch**

#### **Key Components of Automatic Transfer Switch:**

- Viewing Window: Monitor the status of the automatic transfer switch.
- Dead Cover Latches: Pull up to release the latches and press to secure the latches.
- Automatic Transfer Switch: Switch the power between the main power and the backup power automatically.
- Dead Cover: Cover the automatic transfer switch and the circuits.
- Breaker Knockouts: 12 spaces for 50A model (8 spaces for 30A model). One inch
  wide for each space. A maximum of two circuits for each space.
- Inlet Knockouts: Two inlet knockouts on the front and one on each side. Select the knockout that best suits your installation requirements.
- Enclosure: NEMA type 1 enclosure.
- Manual Override Handle: Manually override the automatic transfer switch after the automatic transfer switch is set in manual mode.

#### **Operate Your Automatic Transfer Switch**

- This automatic transfer switch automatically switches power between the main and backup sources when connected to your home's electrical panel board.
- Ensure a qualified electrician installs the switch in compliance with all applicable electrical codes.
- Avoid connecting appliances that exceed the capacity of the switch.
- Always shut down both the main power source and backup power source before working on the switch.
- Be cautious of high voltage present in the switch and terminals.
- The switch starts automatically when either power source energizes it.

#### Welcome

Congratulations on the purchase of your new Nature's Generator Automatic Transfer Switch, a state-of-art automatic transfer switch that switches the power between the main power source and backup power source automatically when connected to your home's electrical panel board.

Please read the instructions below thoroughly prior to any use, then store this manual in a safe place for future reference.

If at any time you have questions about this product, or if you require additional assistance, please do not hesitate to email us at <a href="mailto:support@naturesgenerator.com">support@naturesgenerator.com</a> or contact our Customer Support line at <a href="mailto:800-975-7909">800-975-7909</a>.

#### Warning!

THIS AUTOMATIC TRANSFER SWITCH MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN COMPLIANCE WITH ALL APPLICABLE ELECTRICAL CODES!

- PLEASE DO NOT CONNECT APPLIANCES THAT EXCEED THE CAPACITY OF THIS AUTOMATIC TRANSFER SWITCH.
- PLEASE SHUT DOWN THE MAIN POWER SOURCE AND THE BACKUP POWER SOURCE BEFORE WORKING ON THIS AUTOMATIC TRANSFER SWITCH.
- BE AWARE OF HIGH VOLTAGE! HIGH VOLTAGE IS PRESENT IN THE TRANSFER SWITCH AND TERMINALS.
- BE AWARE OF AUTOMATIC START-UP! THIS AUTOMATIC TRANSFER SWITCH STARTS AUTOMATICALLY WHEN EITHER THE MAIN POWER SOURCE OR THE BACKUP SOURCE ENERGIZES THIS
- AUTOMATIC TRANSFER SWITCH.
- PERFORM THE INSTALLATION EXACTLY ACCORDING TO THIS MANUAL.
   FAILURE TO DO SO COULD DAMAGE THIS AUTOMATIC TRANSFER SWITCH AND CONNECTED EQUIPMENT OR APPLIANCES.
- THIS PRODUCT IS NOT INTENDED TO BE USED IN A CRITICAL LIFE SUPPORT APPLICATION.

**Unpack Your Automatic Transfer Switch** 

1. Automatic Transfer Switch



2. This User Manual



3. Manual Override Handle



4. Power Cord



For 30A Model



For 50A Model

5. Inlet



For 30A Model



For 50A Model

6. Inlet Box and Cover



# **Install Your Automatic Transfer Switch**

#### Install the Power inlet.

The automatic power transfer switch features four power inlet knockouts. Select the appropriate knockout based on the location of your electrical panel, the automatic power transfer switch, and your preferred direction for connecting the power cord.

are closed.

Enclosure Latch: Lift the handle and turn clockwise to release the latch before opening the doors. Turn counter clockwise to secure the latch after the doors

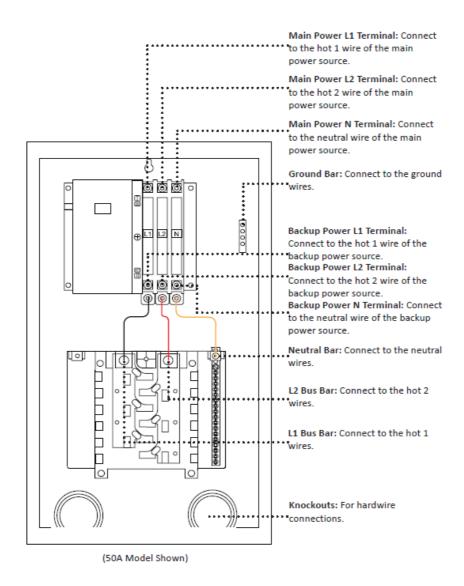
- 1. Remove the chosen knockout.
- 2. The power inlet has four terminals: X, Y, W, and G.
  - X and Y terminals are for the hot wire connections. The
  - W terminal is for the neutral wire connection.
  - G terminal is for the ground wire connection.
  - Make the necessary wire connections accordingly.
- 3. Insert the power inlet through the knockout you've removed.
- 4. Secure the power inlet to the power transfer switch using the included screws.

If you prefer to position the power inlet away from the transfer switch, you can install it in the included inlet box and mount the inlet box in a different location. Refer to the inlet box user guide for further instructions.

#### **Mount Your Automatic Transfer Switch**

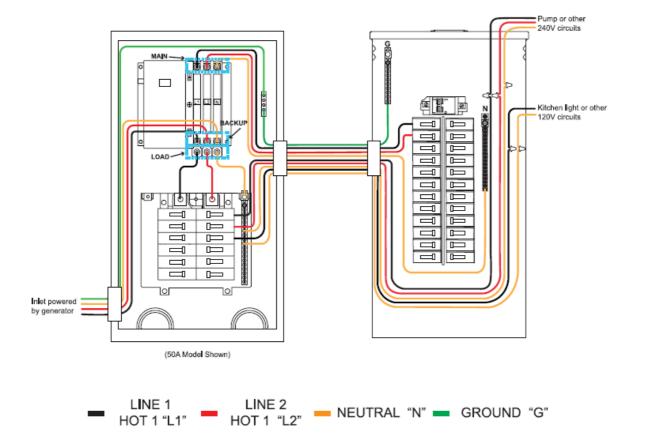
- 1. Locate your existing electrical panel board.
- 2. Decide on the appropriate location to mount the automatic transfer switch. You might need to consider the layout of installation, the convenience and proximity to the electrical panel boards, the existing power source, the alternative power source, and the circuits you want to power.
- 3. Mount the automatic transfer switch vertically to prevent any distortion.
- 4. If you prefer to flush mount the automatic transfer switch, purchase the flush mount kit through <a href="https://www.naturesgenerator.com">www.naturesgenerator.com</a> or <a href="https://www.naturesgenerator.com">800-975-7909</a> before the installation.

Follow the diagrams below to connect the wires. Choose the appropriate gauges for your specific application. Each terminal is able to accommodate up to 2 AWG.



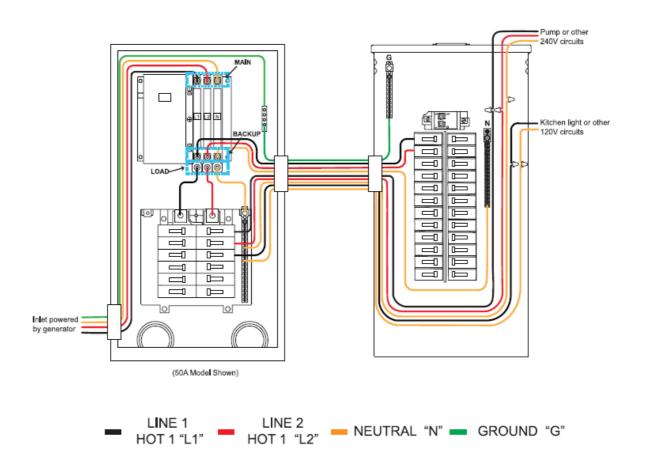
# Diagram #1:

The 120V/240V grid serves as the main power source and the generator serves as the backup power source.



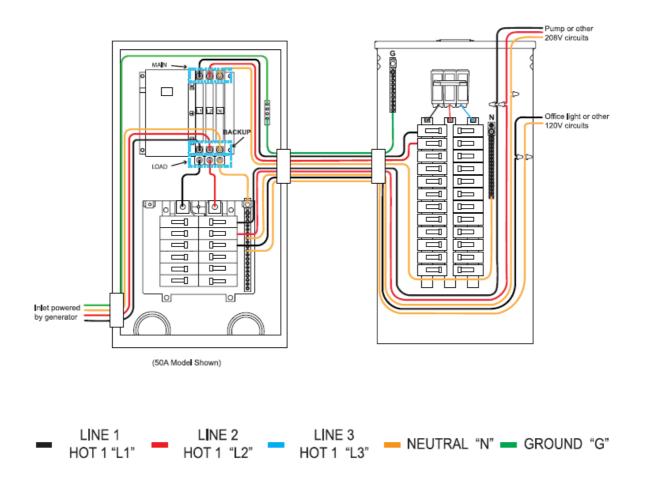
### Diagram #2:

The 120V/240V grid serves as the backup power source, and the generator serves as the main power source.



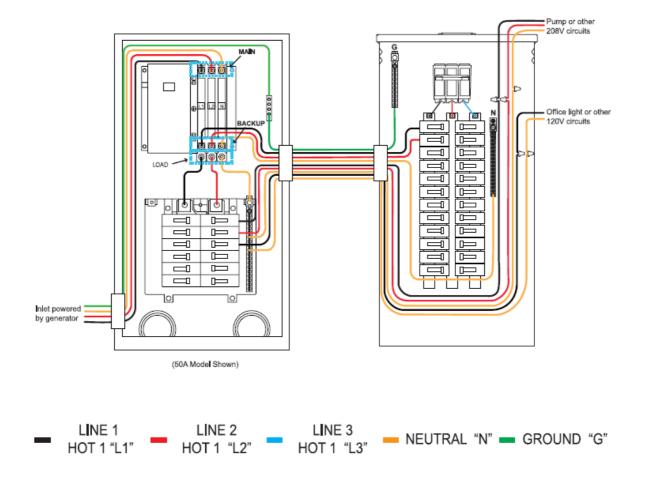
# Diagram #3:

The 120V/208V grid serves as the main power source and the generator serves as the backup power source.



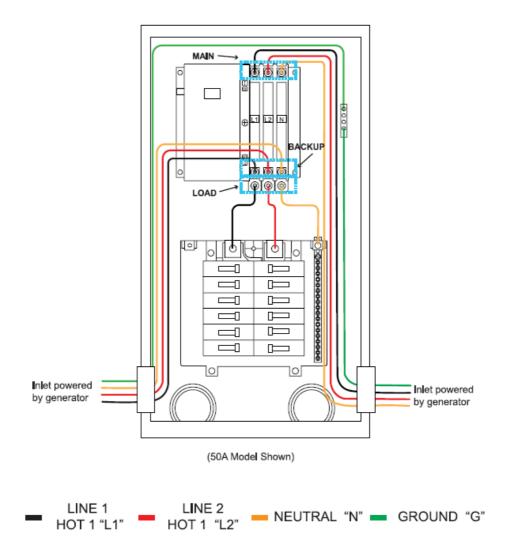
### Diagram #4:

The 120V/208V grid serves as the backup power source, and the generator serves as the main power source.



# Diagram #5:

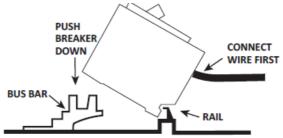
Two generators back up each other. Use the breaker panel as the sub-panel to connect the existing or new circuits.



#### Install the Breakers

Nature's Generator automatic transfer switch offers 12 spaces for the 50A model and 8 spaces for the 30A model that are suitable for one-inch standard, tandem, GFCI, AFCI breakers from Siemens/Murray, Eaton, GE, Square D/Schneider, Noar,k and other listed suppliers.

- 1. Release the dead cover latches to remove the dead cover.
- 2. Remove the required breaker knockouts for installation.
- 3. Insert the tab on the breaker into the rail and push down the breaker into the bus bar.



4. Mark each circuit on the directory label accordingly.

### **Install Circuit Conductors**

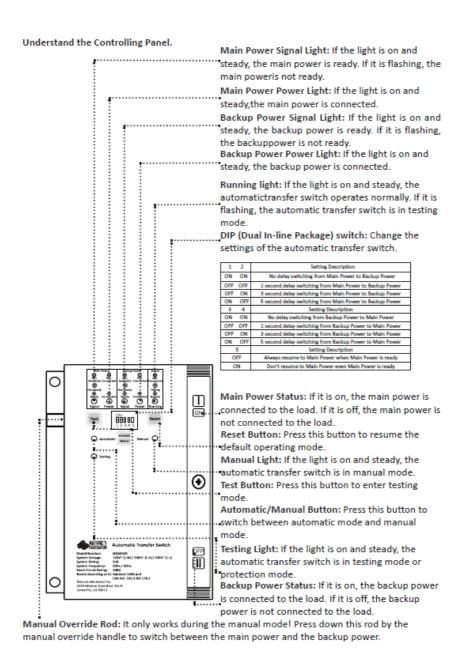
Continue the installation by installing the circuit conductors.

- 1. Decide what knockouts need to be punched.
- 2. Install properly sized conductors into the automatic transfer switch through the punched knockouts.
- 3. Connect the hot conductors to the properly sized circuit breakers approved for use with this automatic transfer switch.
- 4. Terminate the neutral conductors at the neutral bars.
- 5. Terminate the grounding conductors at the grounding bars.
- 6. Size all conductors, conduits, raceways, junction boxes as required by the applicable NEC (National Electric Code) or CEC (Canadian Electric Code) if in Canada.

#### Finish the Installations

- 1. Verify the installation has been properly performed as directed by this manual and meets all applicable laws and codes.
- 2. Verify proper operation of the automatic transfer switch as directed by this manual.
- 3. Apply necessary labels, marks, and protections as needed. Educate the end user on proper operation, maintenance, and service procedures.

## **Operate Your Automatic Transfer Switch**



### **Manual Override Operation**

Never operate the automatic transfer switch manually in the automatic mode!

A manual override handle is shipped with the automatic transfer switch. During emergencies when the automatic transfer switch does not operate normally, you can use the manual override handle to operate the transfer switch.

- 1. Press the automatic/manual button to switch the automatic transfer switch to manual mode. The manual light turns on.
- 2. Use the manual override handle to hold the manual override rod.
- 3. Press down the manual override handle to switch between the main power source and the backup power source.

You can adjust the Nature's Generator automatic transfer switches' settings by using the DIP switches. There are five switches that are named 1, 2, 3, 4 and 5 from left to right. Each switch has two positions: the top is on, and the bottom is off.



The number 1 switch and the number 2 switch control how fast to switch from the main power to the backup power.

1	2	Setting Description
ON	ON	No delay switching from Main Power to Backup Power
OFF	OFF	1 second delay switching from Main Power to Backup Power
OFF	ON	3 second delay switching from Main Power to Backup Power
ON	OFF	5 second delay switching from Main Power to Backup Power

The number 3 switch and the number 4 switch control how fast to switch from the backup power to the main power.

3	4	setting description
ON	ON	No delay switching from Backup Power to Main Power
OFF	OFF	1 second delay switching from Backup Power to Main Power
OFF	ON	3-second delay switching from Backup Power to Main Power
ON	OFF	5-second delay switching from Backup Power to Main Power

The number 5 switch controls whether to resume the main power or not.

5	setting description
---	---------------------

OFF	Always resume to Main Power when Main Power is ready
ON	Don't resume to Main Power even if Main Power is ready

### **Specifications**

System Rating:

o 30A model: 30A

50A model: 50A

• System Voltage:

120 V~ (L-N) / 208V~ (L-L) / 240V~ (L-L)

System Frequency:

50Hz / 60Hz

Number of Spaces:

30A model: 8 spaces

50A model: 12 spaces

Number of Circuits:

30A model: 16 circuits

50A model: 24 circuits

Dimensions

30A model: 22¾ x 14¼ x 6½ inches (580 x 360 x165mm)

50A model: 24¾ x 14¼ x 6½ inches (630 x 360 x165mm)

Weight:

30A model: 48lb (21.6kg)

50A model: 54lb (24.5Kg)

# **Limited Warranty**

### **One-Year Limited Warranty**

Natures Generator Inc. warrants to you, the original purchaser of this new product, that the product shall be free of defects in the original manufacture of the material or workmanship for one (1) year from the original date of your purchase of the product ("Warranty Period"). This product must be purchased from an authorized dealer and packaged with this warranty statement. This warranty does not cover a refurbished product.

#### What does this Warranty Cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the product is determined to be defective by an authorized dealer, Natures Generator, Inc. will (at its sole option):

- repair the product with new or rebuilt parts;
   or
- 2. Replace the product at no charge with new or rebuilt comparable products or parts.

Products and parts replaced under this warranty become the property of Nature's Generator and are not returned to you. If the service of products or parts is required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the product.

#### **How to Obtain Warranty Service?**

Please call 1-800-975-7909 Monday through Friday, 9:00 AM to 5:00 PM PST. You will be provided with a Return Merchandise Authorization (RMA) number and return instructions. Send product to:

- Natures Generator Inc
- 3233 Mission Oaks Blvd. Ste N
- Camarillo, CA 93012
- Please include the RMA number prominently displayed on the shipping box and include your name, phone number, and address with the product inside the box.

#### Where is the Warranty Valid?

This warranty is valid only to the original purchaser of the product in the United States.

#### What our Warranty does not Cover?

This warranty does not cover:

- Cosmetic damage
- Damage due to acts of God, such as lightning strikes

- Accident
- Misuse
- Abuse
- Negligence
- Commercial use
- Modification of any part of the product
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage supply
- Attempted repair by anyone other than a facility authorized by Nature's Generator Inc.
   to service
- the product
- Products sold as is or with all faults
- Consumables, such as batteries
- Products where the factory-applied serial number has been altered or removed.

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. NATURES GENERATOR INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS, OR LOST PROFITS. NATURES GENERATOR, INC. PRODUCTS MAKES NO OTHER EXPRESS WARRANTIESCONCERNINGO THE PRODUCT, ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES, AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

#### **Natures Generator Inc**

- 3233 Mission Oaks Blvd. Ste N Camarillo, CA 93012
- For customer service, please call 1-800-975-7909

#### **FAQs**

FAQ Where shall I install the automatic transfer switch?

It depends on the layout of the installation. You might need to consider the convenience and proximity to the electrical panel boards, the existing power source, the alternative power source, and the circuits you want to power.

Can the automatic transfer switch be installed outdoors?

No. The enclosure is rated NEMA 1 for indoor installation only.

Does the automatic transfer switch work with 240V?

Yes. It works with a 120/240V electrical system. Follow the diagrams in the section "Connect Your Automatic Transfer Switch.

Does the automatic transfer switch work with 120V/208V?

Yes. It works with 2 out of 3 phases of a 120V/208V electrical system. Make sure your alternative power source is compatible with the circuits you want to power. Follow the diagrams in the section "Connect Your Automatic Transfer Switch".

D oes the automatic transfer switch work with 277V/480V?

No, it does not.

Can the automatic transfer switch work with other solar generators?

Yes. It can work with other brands of solar powered or battery powered generators as long as the output voltage and current are within the specifications of the automatic transfer switch.

Can the automatic transfer switch work with gas generators?

Yes. It also works with fuel-powered generators as long as the output voltage and current are within the specifications of the automatic transfer switch. Either this automatic transfer switch needs to be installed outdoors, or an outdoor inlet box is required since the gas generator must be outdoors.

Does the automatic transfer switch recharge the solar generator?

No. It does not recharge the solar generator. The automatic transfer switch only connects to the output port of the solar generator.

Does the automatic transfer switch start the gas generator automatically?

No. It does not auto start the gas generator.

What type of power sources are usually connected to the automatic transfer switch?

The main function of the automatic transfer switch is to switch between the main power source and the backup power source. It can connect between the grid and the generator, or between two generators or even between two grids.

Why does the automatic transfer switch also control the neutral line?

We understood some other brands of automatic transfer switch do not control the neutral line. Nature's Generator believes safety is of paramount importance and decided to control the neutral line as well.

Can I use it off the grid in a na cabin or RV, or tiny house?

Yes. It can be used to manage the power sources from two generators or manage the power sources between the generator and the temporary shore power.

How many circuits can be installed in the automatic transfer switch?

You can install up to 24 circuits by using tandem breakers for 50A model and 16 circuits for 30A model.

Do I need to bond the neutral bar and ground bar?

It depends. You need to follow the proper electrical code to decide bonding or not.

Does an automatic transfer switch work the same as the UPS (uninterrupted power supply)?

Similar, but not exactly. The automatic transfer switch usually operates slower than the UPS.

# **Documents / Resources**



#### NATURE S GENERATOR NGA03030816N Automatic Generator Transfer

Switch [pdf] User Manual

NGA03030816N, NGA05031224N, NGA03030816N Automatic Generator Transfer Switch, NGA03030816N, Automatic Generator Transfer Switch, Generator Transfer Switch, Transfer Switch

#### References

- User Manual
- NATURE S

**GENERATOR** 

Website

◆ Automatic Generator Transfer Switch, Generator Transfer Switch, NATURE S GENERATOR, NGA03030816N, NGA03030816N Automatic Generator Transfer Switch, NGA05031224N, Transfer Switch

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