

## SIG22PK Inverter Parallel Kit Owner's Manual

### **⚠ DANGER**

- ⚠** DEADLY EXHAUST FUMES! ONLY use OUTSIDE far away from windows, doors and vents!
- ⚠** NOT INTENDED FOR USE IN CRITICAL LIFE SUPPORT APPLICATIONS.
- ⚠** SAVE this Manual. Provide this manual to any operator of the generator.

## Section 1 Introduction and Safety

### Introduction

Thank you for purchasing this product. The Parallel Kit is designed to connect two inverter generators to provide twice the power output to a load.

#### **WARNING**

Consult Manual Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury.

If any section of the manual is not understood contact your nearest authorized dealer or contact SIMPSON Customer Service at 1-877-362-4271.

The owner is responsible for proper maintenance and safe use of the equipment. Before operating, servicing or storing this parallel kit:

Study all warnings in this manual and on the product carefully.

Become familiar with this manual and the unit before use.

Refer to the Assembly section of the manual for instructions on final assembly procedures. Follow the instructions completely.

Save these instructions for future reference ALWAYS supply this manual to any individual that will use this machine.

THE INFORMATION CONTAINED HEREIN WAS BASED ON MACHINES IN PRODUCTION AT THE TIME OF PUBLICATION. SIMPSON RESERVES THE RIGHT TO MODIFY THIS MANUAL AT ANY TIME.

### Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and on tags and decals affixed to the unit are, therefore, not all inclusive. If using a procedure work method or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others. Also make sure the procedure, work method or operating technique utilized does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:

#### **DANGER**

Indicates a hazardous situation which, if not avoided will result in death or serious injury.

**⚠️ WARNING**

Indicates a hazardous situation which, if not could result in death or serious injury.

**⚠️ CAUTION**

Indicates a hazardous situation which, if not avoided. could result in minor or moderate injury.

**NOTE:** Notes contain additional information important to a procedure and will be found within the regular text of this manual

These safety warnings cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

**Safety Symbols and Meanings**

For safety reasons, it is recommended that the maintenance of this equipment be performed by an independent authorized service dealer.

**⚠️ WARNING**

Equipment and property damage. Do not alter construction of, or installation of primary fuel tank  
Doing so could result in death or serious injury, unsafe operation or generator damage.

When working on this equipment, remain alert at all times Never work on the equipment when physically or mentally fatigued Do not connect or disconnect parallel kit while running.

**Electrical Hazards**

**⚡ ⚠️ DANGER**

Electrocution. Contact with bare wires terminals, and connections while generator is running will result in death or serious injury.

**⚡ ⚠️ DANGER**

Electrocution. Turn utility and emergency power supplies to OFF before connecting power source and load lines. Failure to do so will result in death or serious injury.

**⚡ ⚠️ DANGER**

Electrocution. Verify electrical system is properly grounded before applying power Failure to do so will result in death or serious injury.

**⚡ ⚠️ DANGER**

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

**⚡ ⚠️ DANGER**

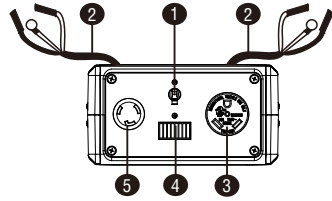
Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive Implements to from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury.

## Electrical Hazards

1. National Fire Protection Association (NFPA)70: The NATIONAL ELECTRIC CODE(NEC) available from [www.nfpa.org](http://www.nfpa.org)
  2. National Fire Protection Association (NFPA)5000: BUILDING CONSTRUCTION AND SAFETY CODE available from [www.nfpa.org](http://www.nfpa.org)
  3. International Building Code available from [www.iccsafe.org](http://www.iccsafe.org)
  4. Agricultural Wiring Handbook available From [www.nerc.org](http://www.nerc.org), Rural Electricity Resource Council P.O. Box 309 Wilmington, OH45177-0309
  5. ASAE EP-3642 Installation and Maintenance of Farm Standby Electric Power Available from [www.asabe.org](http://www.asabe.org), American Society of Agricultural Biological Engineers 2950 Niles Road, St. Joseph, MI 49085
  6. C22.2 100-14 Electric motors and generators for installation and use, in accordance with the Rules of the Canadian Electrical Code.
- This list is not all inclusive. Check with the Authority Having Jurisdiction(AHJ) for any local codes or standards which may be applicable to your jurisdiction
- Refer to the SIG2218 Inverter Owner's manual for complete list of generator alerts.**

## Section 2 General Information and Setup

**TABLE 1. Features and Controls**



1	Main Disconnect
2	Grounded Plugs with Protective Outlet Covers
3	Receptacles 120V 30A (TT-30R) and (L5-30R)
4	Power display

### Know Your Parallel Kit



Consult Manual Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury.

The Parallel Kit is designed to connect two inverter generators to provide twice the power output to a load.

**IMPORTANT NOTE: Never connect parallel kit to a running Inverter.**

**Remove Contents from Carton**

1. Remove and verify carton contents prior to assembly. Carton contents should contain the following:

**TABLE 2. Product Specifications**

Item	Qty.
Parallel Kit	1
Owner's Manual	1

- 2. Call SIMPSON Customer Service at 1-877-362-4271 with the unit model number for any missing carton contents.
- 3. Record date of purchase on front cover of this manual.


**Section 3 Operation and Troubleshooting**

**Operation and Use Questions**

**NOTE:** Parallel kit is designed for use with two SIG2218 inverter generators.

Call SIMPSON customer service at 1-877-362-4271 with questions or concerns about equipment operation and maintenance.

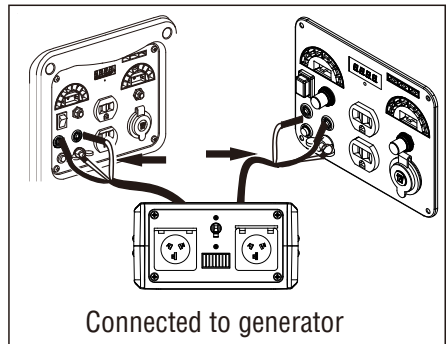
**Startup**



**⚠ DANGER**

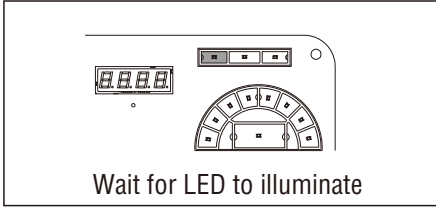
Electrocution. Turn utility and emergency power supplies to OFF before connecting power source and load lines. Failure to do so will result in death or serious injury.

- 1. Verify SIG2218 inverter generators are ready for operation and powered OFF.
- 2. Verify there is no load connected to parallel kit output .
- 3. Connect the parallel kit to parallel outlets on both generators.



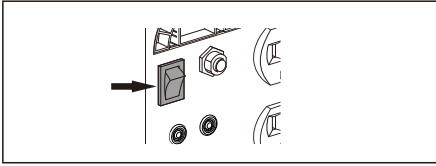
**NOTE:** When parallel kit is connected, do not connect loads to unused outlets on each generator.

4. Start first generator and wait for green Ready LED to illuminate.

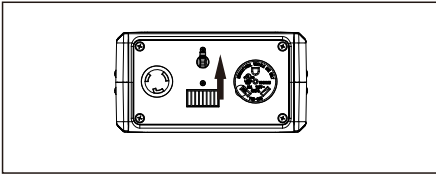


5. Start second generator and wait for green Ready LED to illuminate

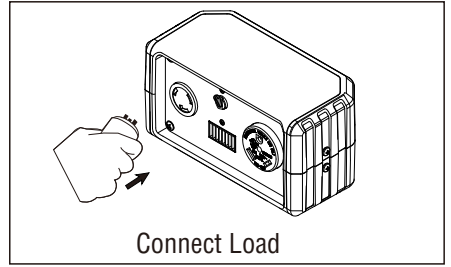
6. Verify both generators are in the same mode



7. Set the circuit breaker switch to ON position.



8. Connect load to parallel kit. The load will now have power.



### Shutdown

1. Power load OFF.
2. Unplug load from parallel kit.
3. Shutdown first generator.
4. Shutdown second generator.

### Troubleshooting

PROBLEM	CORRECTION
Green Ready LED not illuminating on either generator	<ol style="list-style-type: none"> <li>1. Check inverter connection</li> <li>2. Refer to SIG2218 Owners manual</li> </ol>
Load not powered	<ol style="list-style-type: none"> <li>1. Check inverter connections.</li> <li>2. Check parallel kit output connection.</li> <li>3. Try start sequence again(verify inverter generators are OFF before connecting and starting)and verify green Ready LEDs illuminate on both inverters.</li> <li>4.Check if the circuit breaker is ON.</li> </ol>

## LIMITED WARRANTY

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FNA Group, warrants to the original retail purchaser that this SIMPSON brand outdoor product is free from defect in material and workmanship and agrees to repair or replace, at FNA Group's, discretion, any defective product free of charge within these time periods from the date of purchase.

90 Days if the product is used for personal, family or household use.

This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase.

Any part of this product found in the reasonable judgment of FNA Group to be defective in material or workmanship will be repaired or replaced without charge for parts and labor by an authorized service center for SIMPSON brand outdoor products. (Authorized SIMPSON Service Center).

The product, including any defective part, must be returned to an authorized SIMPSON service center within the warranty period. The expense of delivering the product to the service center for warranty work and the expense of returning it back to the owner after repair or replacement will be paid by the owner. SIMPSON's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any SIMPSON brand outdoor product. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by an authorized service center.

This warranty does not cover product used for rental or commercial purposes, or any other income-producing purpose.

This warranty does not cover any product that has been subject to abuse, misuse, neglect, negligence, accident, the effects of corrosion or erosion, or that has been operated in any way contrary to the operating instructions as specified in this operator's manual. This warranty does not apply to any damage to the product that is the result of improper maintenance or to any product that has been altered or modified. The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the SIMPSON brand outdoor product or adversely affect its operation, performance, or durability.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE STATED WARRANTY PERIOD. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE 90 DAY WARRANTY PERIOD.

SIMPSON OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AND SIMPSON DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. SIMPSON ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE OF RETURNING THE PRODUCT TO AN AUTHORIZED SIMPSON SERVICE CENTER AND EXPENSE OF DELIVERING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS OR DAMAGE TO

PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, OR INCONVENIENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION 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. This warranty applies this SIMPSON brand outdoor product manufactured by or for SIMPSON's and sold in the United States and Canada.

To locate your nearest Authorized SIMPSON Service Center, dial 1-877-362-4271.

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