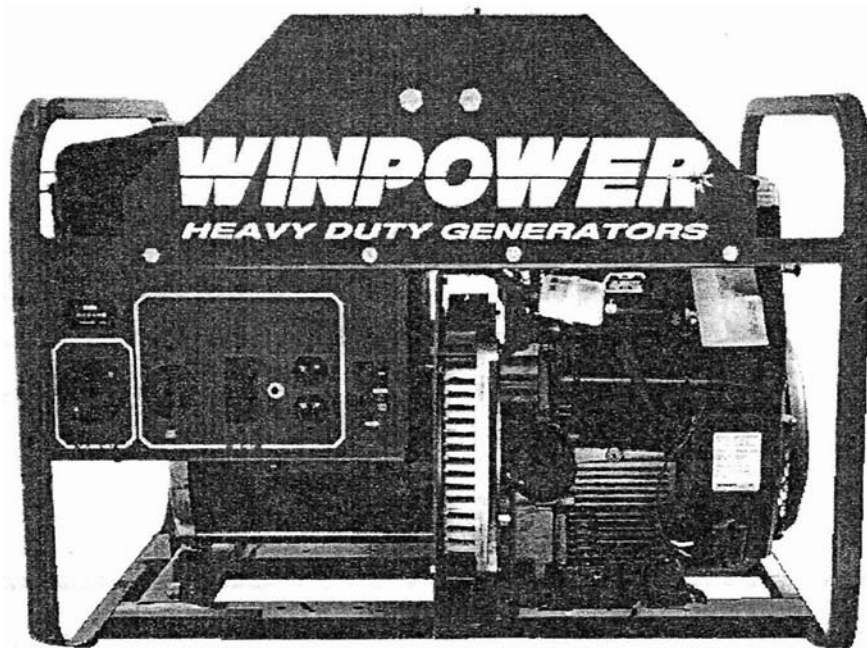


**WINPOWER**

**HEAVY DUTY  
GENERATORS**

**OPERATOR INSTRUCTION MANUAL**



**CONTRACTOR HEAVY DUTY SERIES**

**MODELS**

**CHD11000KES**

**CHD15000KES**

P.O. Box 495  
St. Peter, MN 56082  
Phone: 507-357-6700  
Fax: 507-356580



## TABLE OF CONTENTS

|  |   |
|--|---|
| INTRODUCTION                             | i |
| FEATURES BY MODEL                        | 1 |
| PRECAUTIONS FOR SAFE USE                 | 1 |
| PRESTART PROCEDURES                      | 2 |
| ENGINE STARTING/STOPPING                 | 3 |
| MAINTENANCE                              | 3 |
| CHD SERIES PARTS ILLUSTRATION            | 4 |
| CHD SERIES RECEPTACLE PANEL ILLUSTRATION | 5 |
| OPTIONAL WHEEL KIT - PK350               | 6 |
| WINPOWER LIMITED WARRANTY                | 7 |

Copy your model and serial number here.  
No other Winpower generator has the same serial number as yours. It is important that you record the number and other vital information here. If you should ever need to contact us on this unit it will help us to respond to your needs faster.

MODEL \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_  
PURCHASE DATE \_\_\_\_\_  
DEALER \_\_\_\_\_

## INTRODUCTION

Thank you for purchasing a Winpower generator. This manual covers the operation and maintenance of the CHD Models. It contains the latest product information available at the time of printing. Winpower Inc. reserves the right to make changes at any time without notice and without incurring any obligation.

### WARNING!



Indicates a possibility that personal injury, equipment damage, or other property damage could occur if the instructions are not followed.

### CAUTION!



Indicates a possibility that personal injury, equipment damage, or other property damage could occur if the instructions are not followed.

### NOTE:

Lists helpful information which should assist you in getting satisfactory performance from your new generator.

If you have a problem with your generator, or have any questions about the generator, consult an authorized Winpower distributor, dealer, or service center. Should you require additional information, please consult the factory service department.

The Winpower generator is designed to give safe and dependable service if operated according to the instructions given in this manual. Read and understand the owner's operation and service manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

This manual covers the CHD series of heavy duty generator sets from Winpower in 11 and 15 kW. Both use heavy-duty generator features and one of the highest horsepower/kW ratio on the market. The models covered by this manual are listed below with their notable features.

The CHD series is designed with features that contractors and rental firms are looking for. Primary applications for the CHD series are frequency and lengthy runs including standby power for extended outages. The CHD line carries a standard six gallon tank that ensures long run times in between fill ups. It is recommended to check the engine oil level at every fueling, however the engine is also protected with a shutoff should the oil level drop in unusually harsh operating conditions.

The CHD offers full power from the straight blade L14-60R receptacle for delivery of power to junction boxes or a manual power isolation switch for standby applications. *Always utilize a manual power isolation switch in home standby applications to isolate this generator from the utility power supply - failure to do this will result in severe injury or death to line personnel repairing the utility power.* Consult a licensed electrician if you have any questions.

These units are designed for regular, heavy, and severe loads and operating conditions. These units are made to faithfully serve the construction, rental, ag, and standby markets where the added cost of the heavy duty features are offset by the increased reliability of the generator's ability to stay on the job to completion...day in and day out.


| MODEL       | ENGINE<br>MFR/MODEL | HP | FEATURES BY MODEL |               |                |                    |                   |
|-------------|---------------------|----|-------------------|---------------|----------------|--------------------|-------------------|
|             |                     |    | FUEL<br>TANK      | LUBE<br>OIL** | START<br>TYPE* | WATTS<br>MAX/RATED | AMPS@<br>120/240V |
| CHD11000KES | KOHLER OHV          | 22 | 6 GAL.            | 2.1 QT/2 L    | 12VELECT.      | 11/10              | 83/41.6           |
| CHD15000KES | KOHLER OHV          | 25 | 6 GAL.            | 2.1 QT/2 L    | 12VELECT.      | 15/13.5            | 112.5/56.2        |


\*\*LUBE OIL – CAPACITIES LISTED FOR CONVENIENCE ONLY – USE ENGINE MFRS RECOMMENDATION  
 \*START TYPE – 12VDC BATTERY ELECTRIC START


Full protective 'roll cage' carrying frame  
 Electric Start – 12VDC-starter motor with battery tray and cables – *Battery not Furnished*  
 Spark Arresting Muffler – USDA Forest Service Approved


**PRECAUTIONS FOR SAFE USE**


**To avoid fires:**


 **WARNING!** Do not store combustible material such as straw, waste paper, scrap wood, etc. where the generator is to be stored.


 **WARNING!** Do not store dangerous or flammable materials such as lubricants, celluloid, gasoline, explosives, etc. near the generator.


 **WARNING!** Operate the generator on a level surface. If the generator is tilted or moved during use, there is the danger of fuel spillage and/or a chance the generator will overturn.


 **CAUTION!** During operation, maintain a safe distance of at least three feet (one meter) from buildings or other equipment. When a generator is located too close to a building or other equipment, heat and exhaust from the engine will cause the surrounding air temperature to rise. This will reduce the generator's cooling capability and could cause the engine or generator to over-heat.

 **CAUTION!** Do not enclose the generator, install in a recreational vehicle, or cover with a structure, because this will cause it to overheat creating a possible equipment damaging condition.


 **WARNING!** Always stop the engine when refueling due to the extreme danger that fuel vapor or spilled fuel may be ignited.


 **CAUTION!** Be careful not to spill fuel when refueling. If fuel is spilled, completely wipe up and let dry before starting the engine.


 **CAUTION!** Do not overfill the tank. Never refuel in the presence of a lighted cigarette or open fire.

 **WARNING!** Never refuel a hot engine. Always allow the engine to cool before refueling.

**Other precautions:**


 **WARNING!** Do not store dangerous or flammable materials such as lubricants, celluloid, gasoline, explosives, etc. near the generator.


 **CAUTION!** Do not touch the muffler during operation or just after stopping, because a serious burn could result. The exhaust system operates at a very high temperature.


 **CAUTION!** Do not get water on the generator. If the unit becomes wet allow it to completely dry before operating. Also, a wet spark plug may prevent the engine from starting.

## PRECAUTIONS FOR SAFE USE CONTINUED


### Other precautions continued:


 **CAUTION!** Do not connect the generator to the household electrical system without using a UL listed double throw disconnect switch. Any such installation should be made only by a licensed electrician in accordance with all city, county, province, state, regional, and national electrical codes.


 **CAUTION!** If you should notice an abnormal noise, odor, vibration, etc. when the unit is operating, it should be stopped immediately and the reason for the condition determined. Failure to do so could permanently damage the unit as well as associated equipment. If the cause cannot be determined, the unit should be taken to the nearest service center for proper diagnosis.

 **WARNING!** Make sure that the unit is grounded properly and in accordance with all applicable regulating codes.

### Exhaust gases:


 **WARNING!** Do not operate the generator in locations with poor ventilation such as home interiors, warehouses, tunnels, wells, pits, tanks, ship holds, etc. Fatal levels of gaseous fumes can accumulate in poorly ventilated areas and increase the danger of carbon monoxide poisoning. Always pay strict attention to the fire codes, building codes, and safety regulations if the generator is operated inside a building.


 **WARNING!** Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.


 **WARNING!** Do not operate the generator with wet hands, because severe electrical shock may occur. Do not operate in the rain or snow.

## PRESTART PROCEDURES


### Check the engine oil level:

 **CAUTION!** Remove the oil filler cap to check the oil level. If the oil level is low, add a high quality motor oil to the full mark on the dipstick.

 **CAUTION!** Engine oil is a major factor affecting engine performance and service life. Use only recommended types and grades of lubricating oil (see engine manual for manufacturer's recommendation). If your engine manual has been misplaced, then the following is recommended:  
Summer SAE #20-30  
Winter SAE #10W-30

 **CAUTION!** The engine is shipped WITHOUT oil. Use a high quality detergent oil classified "For service SF, SE, SD, or SC." Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits. Use 4 stroke oil, do not use 2 stroke oil.

Oil capacity: see engine manual

 **CAUTION!** Running the engine with insufficient oil can cause serious engine damage.


### Fueling the engine:

The engine manufacturer recommends the use of clean, fresh, lead-free gasoline. Lead-free gasoline may be used if lead-free is not available. The use of lead-free gasoline results in fewer combustion deposits and longer valve life.

### Fueling the engine continued:


If long-term storage is expected, a fuel stabilizer (such as STA-BIL ) should be used to eliminate the formation of fuel gum deposits in the fuel system.  
Fuel Capacity: See page 1 Model Features

### When refueling, the following steps are recommended:

 **WARNING!** Always stop the engine. Disconnect and ground the spark plug lead wire.


**NOTE:** Close the fuel valve at the base of the fuel tank.


**NOTE:** Check the fuel strainer. Never operate without a fuel strainer.

 **CAUTION!** Always wipe up all spilled fuel. Replace spark plug lead wire.

**NOTE:** Open the fuel valve.

**NOTE:** Ensure the circuit breakers are in the pushed in or "Reset" position, and the GFCI receptacle is reset.

 **WARNING!** Before starting, disconnect all power cords from the AC receptacles on the generator panel.

 **WARNING!** The generator may be hard to start if a load is connected. It is dangerous if electric tools are powered during start up. This could result in personal injury or damage to the electric tools.

## ENGINE STARTING/STOPPING

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### Engine starting:

1. Install fully charged battery.
2. Check oil and fuel levels.
3. Make sure the appliance is disconnected.
4. Move engine choke control as far forward as possible toward "Choke" or "Start" position. (When the engine is warm or the temperature is high, start the engine with the choke in the run position.)
5. Place the engine stop switch in the "On" position.
6. Operate start switch. With the choke fully closed, press firmly on the "Stop-Run-Start" switch pushing into the momentary "Start" position. Never crank for more than 5 second intervals, and allow 20 second rest cycles between crank cycles. Never crank the engine more than 5 cycles. If the engine does not start, review the status of the fuel supply and oil level.

7. When the engine starts, open choke gradually. If the engine does not start, review the status of the fuel supply and oil level. All units are equipped with low oil protection. If the oil level or pressure is below the safety point, the engine will not start. Always restore the oil level to the full mark before restarting the engine.

### Engine stopping:

1. Remove all electrical load by disconnecting all power cords from the rear generator panel.
2. Place the side panel "Stop-Run" switch at the "Stop" position.

## MAINTENANCE

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Before start-up, perform the following routine maintenance items:

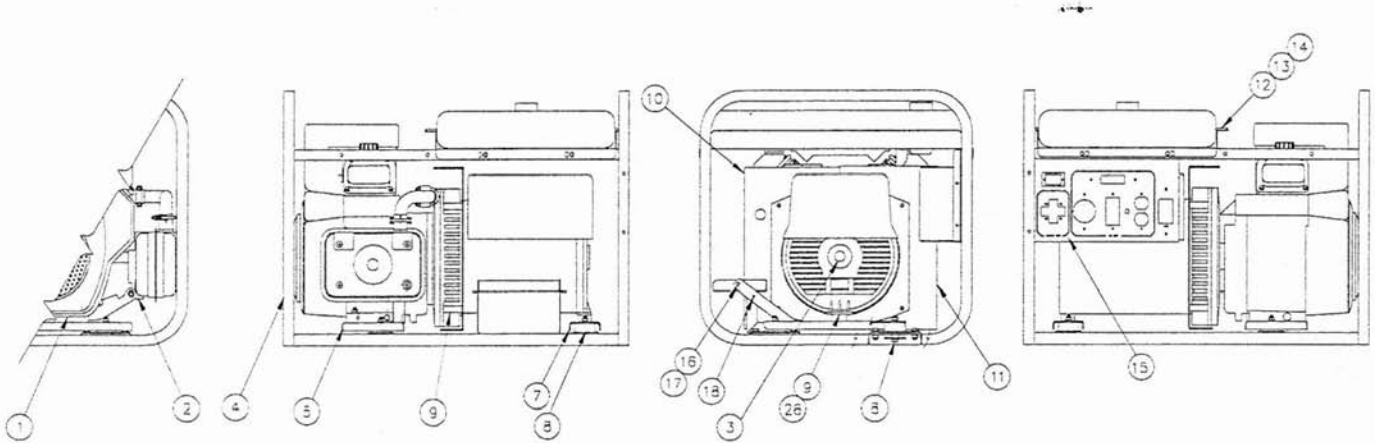
1. Check fuel supply.
2. Check engine oil level - if not full, add as required. If at service interval, start engine to warm oil; drain and replace.
3. Check air cleaner; service if required.
4. Inspect for loose bolts and screws. Retighten all loose items. Replace all missing or broken items. Inspect for broken receptacles; replace broken items.
5. Inspect for fuel and oil leaks. Service as required to stop leakage.

6. Start unit and check for abnormal noise and vibrations. Correct any abnormal condition.
7. Inspect exhaust system.
8. Ensure the generator cooling slots are clear for proper ventilation.

Refer to the engine manual for the manufacturer's recommended engine maintenance procedures.

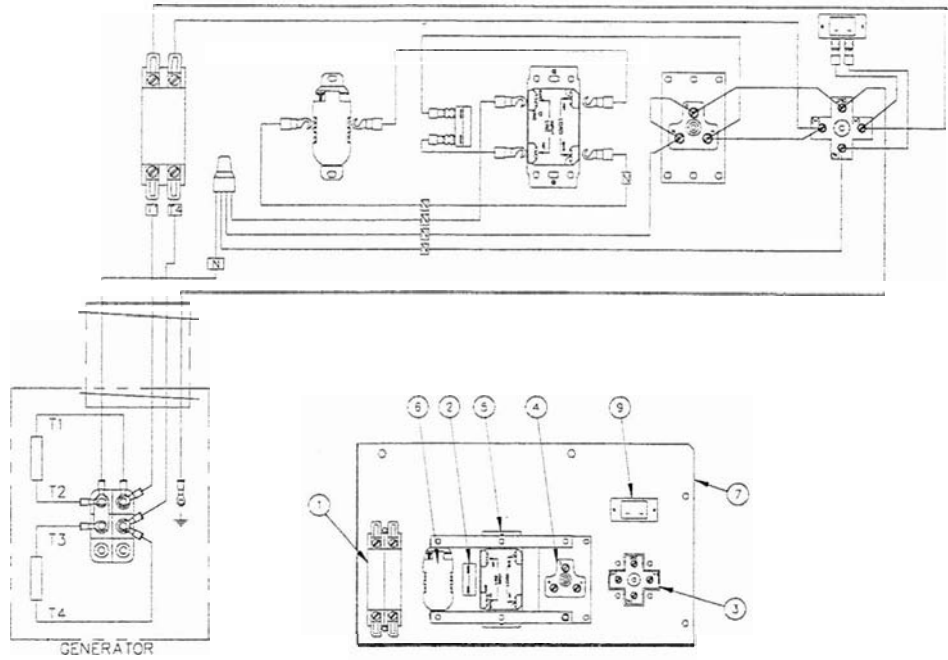
To ensure reliable starting, start and run the unit periodically to minimize carburetor clogging and fuel varnishing. When the engine will be stored for long periods of time without exercising, drain all fuel from the carburetor and fuel system.

# CHD11000KES & CHD15000KES COMPLETE UNIT ASSEMBLY PARTS ILLUSTRATION



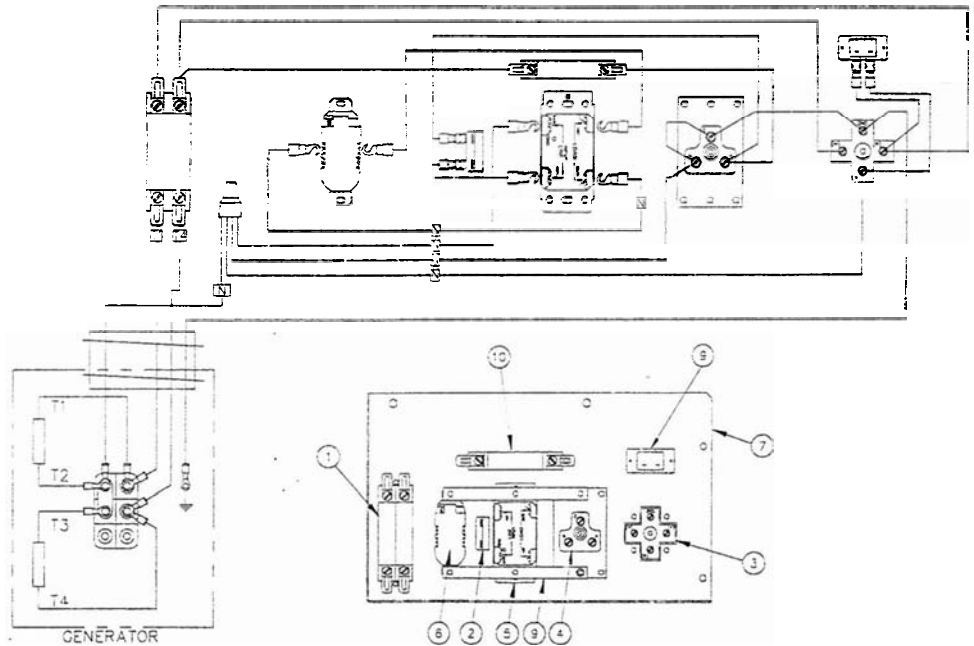
| ITEM | DESCRIPTION                  | CHD11000KES | CHD15000KES |
|------|------------------------------|-------------|-------------|
| 1    | ENGINE                       | 300116-2    | 300116-3    |
| 2    | EXHAUST SYSTEM               | 300119-1    | 16039-1     |
| 3    | GENERATOR                    | 300043-10   | 300043-11   |
| 4    | WELDMENT, CRADLE             | 300138      | 300138      |
| 5    | SUPPORT, ENG. SHOCKMOUNT     | 300142      | 300142      |
| 6    | SPACER, GEN-SUPPORT          | 300040-1    | 300040-1    |
| 7    | SUPPORT, GENERATOR           | 300039-1    | 300039-1    |
| 8    | SHOCK MOUNT (QTY. 4)         | 98807       | 98807       |
| 9    | SPACER (QTY. 4)              | 300058-2    | 300058-2    |
| 10   | BAFFLE, LEFT                 | 300033-2    | 300033-2    |
| 11   | BAFFLE, RIGHT                | 300034-2    | 300034-2    |
| 12   | TRAY, FUEL TANK              | 300031-1    | 300031-1    |
| 13   | FUEL TANK                    | 240022003   | 240022003   |
| 14   | FUEL TANK CAP                | 240020003   | 24002003    |
| 15   | ASSEMBLY, CONTROL            | 300135-1    | 300135-2    |
| 16   | TRAY, BATTERY                | 300036      | 300036      |
| 17   | BRACE, BATTERY TRAY (QTY. 2) | 300037      | 300037      |
| 18   | SUPPORT, BATTERY TRAY        | 300054      | 300054      |
| 19   | BATTERY CABLE, POSITIVE +    | 15767-4     | 15767-4     |
| 20   | BATTERY CABLE, NEGATIVE -    | 15767-5     | 15767-5     |
| 21   | ASSEMBLY, HOSE & FILTER      | 300098      | 300098      |
| 22   | DECAL SET                    | 15209       | 15209       |
| 23   | KIT, LIFTING                 | 300144      | 300144      |
| 24   | KIT, BATTERY HOLD DOWN       | 300143      | 300143      |
| 25   | PLUG, 60A 3P 4W              | 300137      | 300137      |
| 26   | SPECIAL STUD                 | 23197-034   | 23197-034   |

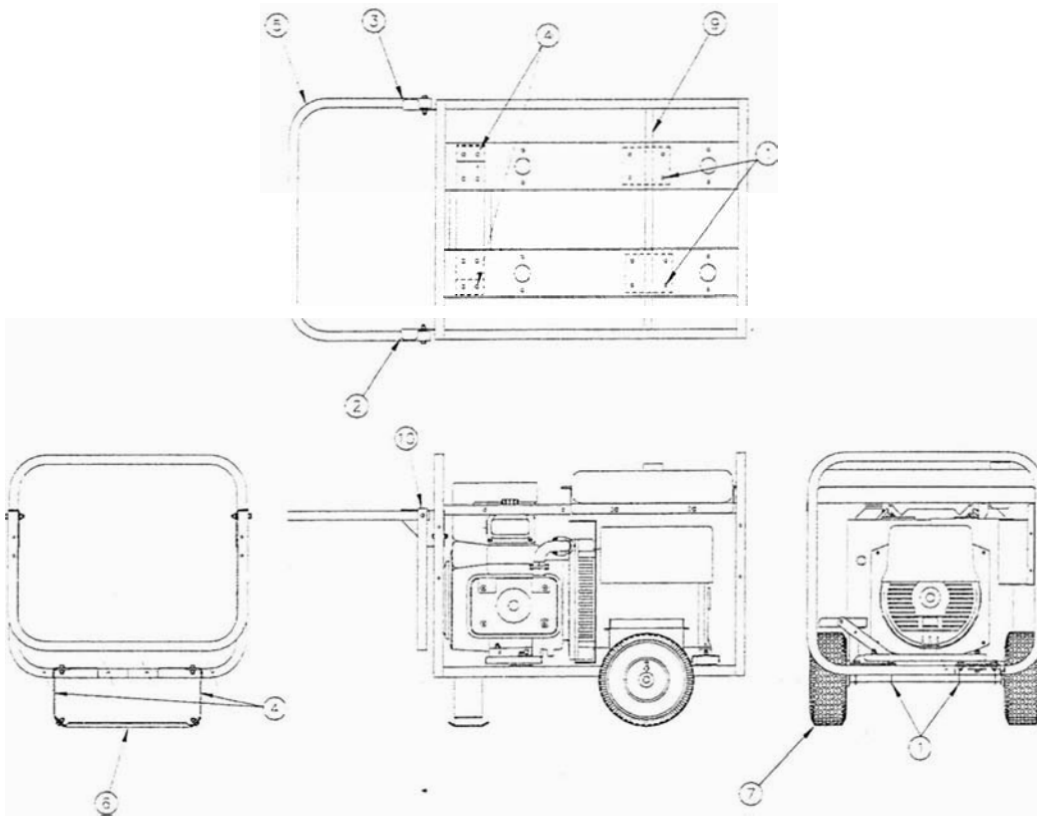
**RECEPTACLE  
 PANEL ASSEMBLY  
 CHD11000KES  
 PART NO. 300135-1**



|    | RECEPTACLE PANEL ASSEMBLY     | 300135-1           | 300135-2           |
|----|-------------------------------|--------------------|--------------------|
|    | <b>DESCRIPTION</b>            | <b>CHD11000KES</b> | <b>CHD15000KES</b> |
| 1  | CIRCUIT BREAKER               | 57030-7 (45A 2P)   | 57030-5 (60A 2P)   |
| 2  | CIRCUIT BREAKER (20A 1P)      | 240013200          | 240013200          |
| 3  | RECEPTACLE, 60A 3P 4W         | 300136             | 300136             |
| 4  | RECEPTACLE, NEMA 5-50R        | 54545              | 54545              |
| 5  | RECEPTACLE, GFCI NEMA 5-15R   | 240007401          | 240007401          |
| 6  | DUPLEX RECEPTACLE, NEMA 5-15R | 240008150          | 240008150          |
| 7  | CONTROL, FRONT                | 300145-1           | 300145-2           |
| 8  | COVER, REAR (NOT SHOWN)       | 300146             | 300146             |
| 9  | RUNNING TIME METER            | 58166-1            | 58166-1            |
| 10 | CIRCUIT BREAKER (50A 1P)      | N/A                | 91977-3            |

**RECEPTACLE  
 PANEL ASSEMBLY  
 CHD15000KES  
 PART NO. 300135-2**





## PK350 PORTABILITY KIT

|    | DESCRIPTION                     | PART NO. |
|----|---------------------------------|----------|
| 1  | SUPPORT, AXLE(QTY. 2)           | 300065-1 |
| 2  | SUPPORT, RIGHT HANDLE           | 300066-1 |
| 3  | SUPPORT, LEFT HANDLE            | 300066-2 |
| 4  | SIDE, REAR SUPPORT (QTY. 2)     | 300067   |
| 5  | HANDLE                          | 300068-1 |
| 6  | BOTTOM, REAR SUPPORT            | 300094-1 |
| 7  | ASSEMBLY, WHEEL & TIRE (QTY. 2) | 43657-1  |
| 8  | HUBCAP (QTY. 2)                 | 64327    |
| 9  | AXLE                            | 64326-13 |
| 10 | PLUG, TUBE(QTY. 2)              | 15511    |



# **WINPOWER**

## *Limited Warranty*

*Winpower Inc. hereby warrants for one year the generator set described herein to be free from defects in material and workmanship if properly installed, serviced, and operated under normal conditions according to our instructions.*

*This warranty covers parts and labor and is extended to the original purchaser for a period of one year (365 days) from the date of purchase. During that period, Winpower Inc. will replace free of charge upon examination by the factory, or an authorized service center, any part or parts found to be defective in material or workmanship.*

*This warranty does not obligate the manufacturer to bear any transportation charges in connection with the replacement or repair of defective parts or delivery of the defective generator set. This warranty does not cover rental charges for replacements while defective unit is being repaired. The replacement of parts and/or service arising out of abuse, neglect, or normal wear and tear is not covered by this warranty.*

*Winpower Inc. hereby disclaims any and all implied warranties, including but not limited to, warranties of merchantability and fitness for any, if and to the extent, that such disclaimer is not forbidden by any applicable law. Implied warranties, including but not limited to, warranties of merchantability and fitness for any particular purpose which Winpower Inc. is so forbidden to disclaim by an applicable law, are warranted one year from the date of purchase.*

*This is the purchaser's sole and exclusive remedy hereunder. Liability for consequential, incidental or special damages and/or expenses under any and all warranties are excluded to the extent exclusion is permitted by law.*

*All applications for warranty must have the model and serial number of the unit for which the application(s) is being filed, customer's name, address, phone number, and date of sale; otherwise the warranty/application and payment may be rejected or delayed.*

### **SPECIFIC CONDITIONS NOT COVERED BY LIMITED WARRANTY**

*The generator set is equipped with an engine which is not covered by this warranty. The engine is covered exclusively by the engine manufacturer's warranty presented in the enclosed engine manual.*

*The generator set is intended to be used as constructed by the factory. Any modifications to the assembly, such as conversion to LP gas fuel, will void the warranty. Winpower Inc. does not warrant any modifications to the unit.*