



ANT SCRUBBER

WE-A14 OWNER'S MANUAL



TABLE OF CONTENTS

THE DELIVERY OF THE MACHINE 2

INTRODUCTORY COMMENT 2

TECHNICAL DESCRIPTION 2

SYMBOLGY USED ON THE MACHINE 3

MACHINE PREPARATION 3

 HANDLING 3

 HOW TO UNPACK THE MACHINE 3

 BATTERY TYPE 3

 THE BATTERIES INSTALLATION 3

 BATTERY CONNECTION 3

 RECHARGING THE BATTERY 4

 RECHARGING THE BATTERY 4

 BATTERY CHARGE LEVEL GAUGE 4

 FASTENING THE HANDLEBAR 4

 SOLUTION WATER 5

 SOLUTION TANK 5

WORK 5

 PREPARATION 5

 OPERATION 6

 FORWARD MOVEMENT 6

COMPLETION WORK 6

DAILY MAINTENANCE 6

 RECOVERY TANK CLEANING 6

 CLEANING THE SQUEEGEE 6

 REPLACING THE SQUEEGEE RUBBERS 6

 BRUSH DISASSEMBLY 7

WEEKLY MAINTENANCE 7

 SQUEEGEE HOSE CLEANING 7

 SOLUTION TANK CLEANING 7

COMMON PROBLEMS AND SOLUTIONS 7

 INSUFFICIENT WATER TO THE BRUSH 7

 THE MACHINE DOES NOT CLEAN WELL 7

 THE SQUEEGEE CAN NOT DRY THE FLOOR PERFECTLY 7

 TOO MUCH FOAM 7

CHOICE AND USE OF BRUSHES 7

GENERAL SECURITY RULES 8

COMMON FAULTS & TROUBLESHOOTING 9-12

WARRANTY 13

CONTACT US 13



DELIVERY OF MACHINE

Upon receiving the machine, an immediate check must be performed to ensure all materials mentioned in the shipping documents have been received. If damage has occurred during shipping, inform the shipping agent immediately to verify the amount and nature of the damages suffered and contact our service department at 1-877-743-9732. It is only by prompt action of this type that compensation for damage may be successfully claimed.

INTRODUCTORY COMMENT








This is a sweeping and scrubbing machine which uses the mechanical abrasive action of a rotary brush and the chemical action of a solution water detergent. The Ant picks up loose dirt during its forward movement, while removing dirt and detergent

We would impress upon you that any machine will function efficiently and operate successfully, only if used correctly and maintained in fully efficient working order. Please read this manual carefully and re-read it whenever difficulties arise in the course of machine use. Our service department is at your disposal for all such advice and servicing as may prove necessary.

TECHNICAL DESCRIPTION

TECHNICAL DATA	U/M	GBZ-350B
Cleaning width	IN	13.77
Squeegee width	IN	16.53
Working capacity, up to	Sft/h	2700
Brushes diameter	Mm	13.77
Brushes speed	Rpm	180
Brushes pressure	#	40 max
Brush motor power	W	400
Drive type		Semi-auto
Max. movement speed	Mph	2.1
Max. gradient		2%
Suction motor power	W	370
Suction vacuum	Mbar	100
Solution tank capacity	L	2.9
Recovery tank capacity	L	3.4
Machine length	IN	28.34
Machine height	IN	35.43
Machine width(without squeegee)	IN	17.3
Batteries voltage	V	24
Batteries max. capacity	Ah	35
Batteries compartment	IN	11.25x7.2x8.9
Batteries weight	#	44
Machine weight(without batteries)	#	99
Acoustic radiation pressure level	db (A)	<70
Vibration Level	m/sqs	1.00

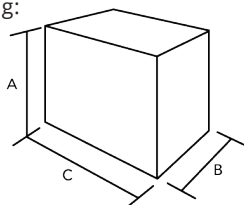
SYMBOLGY USED ON THE MACHINE

-  Indicates the brush motor switch
-  Indicates the vacuum motor switch
-  Indicates the power on/off
-  Indicates the batteries charging level
-  Indicates the operator to read the manual before using the machine
-  Indicates anchoring points and lift direction
-  Carefully read the sections marked with this symbol, for the security of both operator and the machine

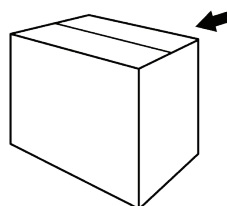
MACHINE PREPARATION
HANDLING OF THE PACKED MACHINE

The Ant Warrior Scrubber WE-A14 is packaged and shipped within carton boxes. No more than four packages should be stacked on each other. Packing dimensions are as following:

- A : 20"
- B : 18.3"
- C : 37.4"


HOW TO UNPACK THE MACHINE

1. Open the packing on the top indicated.
2. Remove the machine from the packing.
3. Take out the recovery tank.


BATTERY TYPE
ENERGY SUPPLIES:

1. Lead batteries for traction use and tubular plates and electrolyte free.
2. Battery hermetically sealed for traction recombination of gas with gel technology.

The maximum dimensions of every battery should be: length 10.82", width 3.54", height 7.87".

The maximum weight of every battery should be 26.4 #.

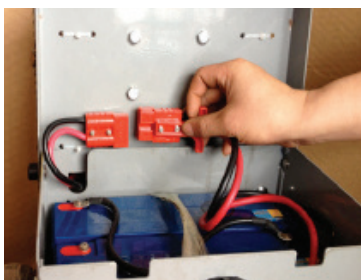
In order to achieve a tension of 24v, the batteries must be connected with a serial connection.

The connection process should be carried out by specialists who are trained by our service department.

ATTENTION: Using exclusively sealed batteries to avoid acid spillage is recommended

THE BATTERY CONNECTION:

Connect battery connector to machine connector



ATTENTION! THE INSTALLATION PROCESS SHOULD BE CARRIED OUT BY A SPECIALIST. A WRONG OR DEFECTIVE CONNECTION CAN CAUSE SERIOUS DAMAGE TO PERSONS AND MACHINE.

RECHARGING THE BATTERY

1. Carry out a battery charge cycle before using the machine.
2. Make sure that the battery charger is suitable to the installed battery, both in capacity and in type.

Warning! Never charge a GEL battery with an unsuitable battery charger. Strictly follow the instructions provided by the battery and battery charger manufacturer.

To avoid permanent damage to the battery, the battery should never be totally discharged. Batteries should be recharged within a few minutes after the battery discharge signal start to flash.



ATTENTION:

1. Never allow the batteries to become completely discharged, even if the machine is not being used.
2. For the daily recharging of the battery it is necessary to strictly follow the instructions provided by the manufacturer or dealer.
3. Danger of exhalation of gas and emission of corroding substances.

BATTERY CHARGE LEVEL GAUGE

The battery indicator is digital with 4 fixed positions and a blinking one. The numbers, which appear on the display, show the approximate charge level.

4 = maximum charge 3 = 3/4 charge 2 = 1/2 charge 1 = 1/4 charge 0 = discharged batteries (blinking) Warning!
8 seconds after the "0" blinks, the brush motor automatically switches off.



FASTENING THE HANDLEBAR

To save space for storage and packing, the handlebar is supplied folded and must be put into working position:

1. Lift the handlebar by pulling up the lever indicated by the arrow
2. Place the machine in its working position
3. Mount the recovery tank on the handlebar tube using the two hooks
4. Insert the tubes into the fittings that exit from the ring of the recovery tank



SOLUTION WATER

Fill the solution tank with clean water at a temperature should not exceed 122 degrees F. Add liquid detergent, following the instructions of the detergent manufacturer. Use only a minimal percentage of detergent to prevent formation of excessive foam, as this could damage the suction motor.

ATTENTION! NEVER USE PURE ACIDS!


SOLUTION TANK

1. Check the plug is properly inserted
2. Check connection.


WORK PREPARATION

The following procedures must be done before installing the tanks:

1. Open the two rear hinges on battery compartment
2. Connect connector to the batteries
3. Close battery compartment

Install the tanks and prepare the machine for operation.


OPERATION

1. Turn the flow control valve to proper position.
2. Lower the squeegee control lever.
3. Press the power switch and check that the display lamp shows "4"
4. Press the brush motor switch and solenoid valve switch (the upper right button).
5. Press the vacuum motor switch.



FORWARD MOVEMENT

Forward movement by the machine is done using the brush. When the brush is slightly inclined, it pulls the machine forward.



ATTENTION! WHILE GOING INTO REVERSE, ENSURE THE SQUEEGEE IS LIFTED AFTER EVERY USE.

COMPLETION WORK

STEPS TO FOLLOW AFTER USING:

1. Turn off power switch.
2. Raise squeegee by lifting lever 5
3. Move machine to where water is to be drained
4. Remove recovery plug and empty tank
5. Dismantle brush and clean using a jet spray of water



DAILY MAINTENANCE

RECOVERY TANK CLEANING:

1. Remove pipes from the elbows.
2. Open recovery tank by turning cover counter clockwise.
3. Take out filter and clean using a jet of water.
4. Rinse recovery tank using a jet of water.

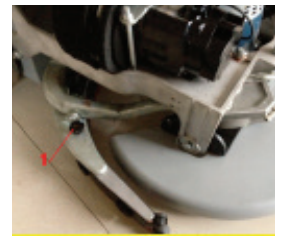


ATTENTION! ALWAYS WEAR GLOVES DURING THIS PROCEDURE, TO AVOID ANY CONTACT WITH DANGEROUS SUBSTANCES.

CLEANING THE SQUEEGEE:

The squeegee must be in perfect working condition to achieve a good drying process.

1. Lift the machine
2. Remove pipe from squeegee
3. Loosen the 2 knobs to remove squeegee
4. Carefully clean inside of squeegee
5. Carefully clean rubbers
6. Reassemble



REPLACING THE SQUEEGEE RUBBERS:

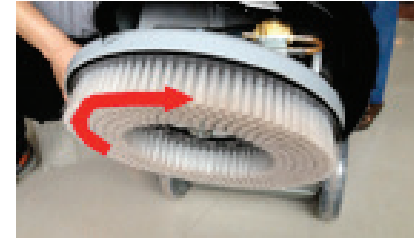
Check the condition of the squeegee rubbers. Replace as necessary. To replace the rubbers:

1. Lift machine and remove pipe from squeegee
2. Loosen the 2 knobs to remove squeegee
3. Unscrew squeegee knobs (which clamp the blades and pull out)
4. Remove blades
5. Replace rubbers
6. Reassemble



BRUSHES DISASSEMBLY

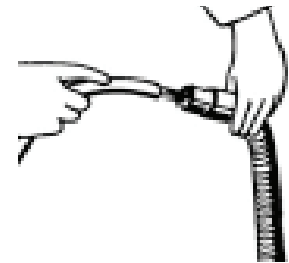
1. Lift squeegee
2. Lift machine by pressing down on handlebar
3. When base is lifted, jog brush control. The brush releases automatically.


WEEKLY MAINTENANCE
CLEANING SQUEEGEE HOSE:

Weekly or whenever suction is insufficient, it is necessary to clean the squeegee hose.

Follow these procedures:

1. Remove pipe from squeegee sleeve.
2. Take out other end from recovery tank.
3. Wash inside of pipe using a jet of water



ATTENTION! DO NOT WASH THE PIPE THAT CONNECTS THE VACUUM MOTOR AND RECOVERY TANK!

COMMON PROBLEMS AND SOLUTIONS
INSUFFICIENT WATER ON THE BRUSHES:

1. Ensure that there is water in the solution tank
2. Ensure the solenoid valve switch is turned on, and check the water flow control valve is in the open position.
3. Ensure the quick fitting connection is properly engaged.

THE MACHINE DOES NOT CLEAN WELL:

1. Check brush wear and replace if necessary. Brushes must be replaced when bristles are about 15mm high.

THE SQUEEGEE DOES NOT DRY THE FLOOR PERFECTLY:

1. Ensure squeegee rubbers are clean
2. Check the connection between suction pipe and recovery tank.
3. Remove and clean whole suction unit.

EXCESS FOAM:

1. Ensure low-foam a detergent is used. If necessary, add a little anti-foam liquid to recovery tank.
2. More foam is generated when floor is clean. In this case, use a more diluted detergent.

CHOICE AND USE OF BRUSHES

Polypropylene Brush (PPL) - Used on all floor types and offers good resistance to wear and to hot water (not over 50 degrees C). PPL is non-hygroscopic, preserving its character even when working on wet floors.

Nylon Brush- Used on all floor types and offers excellent resistance to wear and to hot water (not over 50 degrees C). Nylon is hygroscopic and tends, over a period of time, to lose its character when working on wet floors.

Pad Holder- Used for cleaning polished surfaces

Center Lock Pad Holder- In addition to anchor stubs, there is also a plastic snap-in centre lock system. This permits perfect centering of the abrasive disk and ensures it is kept anchored without detaching. This type of pad holder is best for machines with multiple brushes.

6. GENERAL SAFETY RULES

Please carefully follow the listed below rules in order to avoid harm to the operator and damage to the machine:

1. Read labels on the machine carefully. Never cover for any reason and immediately replace them if they are damaged.
2. The machine is to be used only by authorized and trained persons.
3. Be aware of other people, particularly children, while operating the machine.
4. The machine is not suitable for cleaning carpets.
5. Never mix different types of detergent: this could generate noxious gases.
6. Never load the machine into a container with liquids in it.
7. Never put the machine in lateral and invert placement.
8. Machine storage temperature must be between -25 and +55 degrees C.
9. Operating conditions: room temperature between 0 and +40 degrees C with respective humidity between 30 and 95.
10. Never use the machine in an explosive environment.
11. Never use the machine to transport goods.
12. Never use acid solutions, which could damage to the machine.
13. Avoid running the brushes with the machine stopped: it could damage the floor.
14. Never use flammable liquids.
15. The machine is not suitable for cleaning hazardous dust.
16. Use a powder fire extinguisher in case of fire, do not use water.
17. Do not hit against shelving or scaffolding when there is danger of falling objects.
18. Do not exceed over the limit gradient stated on the machine plate, to avoid conditions of instability.
19. Never run the machine on uneven floor or in an area with excessive dust.
20. Provide "wet floor" signs while operating on a high trafficked area.
21. Whenever the machine has operating troubles, refer to maintenance procedures.
22. When replacing machine parts, always reorder spare parts from a Warrior Equipment, authorized agent, or dealer.
23. Use only original brushes indicated in the chapter "CHOICE AND USE OF BRUSHES".
24. Always cut off the electric power to the machine whenever maintenance is performed.
25. Restore all electrical connections after any maintenance operation.
26. Never remove guards that require tools for removal.
27. Never wash the machine with corrosive substances.
28. Maintain the machine after 200 operating hours.
29. Do not fill with detergent solution more than 30 min. prior to using the machine
30. Before using the machine, make sure that all the covers and caps are positioned as shown in this manual.
31. Deal with the consumption materials according to the local laws.



5.5 COMMON FAULTS & TROUBLESHOOTING

ERRORS	ACTION TO BE TAKEN
<ul style="list-style-type: none"> • Power capacity is too small • Voltage drop due to wiring resistance • Large capacity motor connected to the same power system has been started • Defective electromagnetic contractor 	<ul style="list-style-type: none"> • Check the source voltage and wiring • Check the power capacity and power system
<ul style="list-style-type: none"> • Extremely rapid accel • Short-circuit or ground-fault at the inverter output side • Motor of a capacity greater than the inverter rating has been started • High-speed motor and pulse motor has been started 	<ul style="list-style-type: none"> • Extend the accel. time • Check the load wiring
<ul style="list-style-type: none"> • Motor dielectric strength is insufficient • Load wiring is not proper 	<ul style="list-style-type: none"> • Check the motor wiring impedance and the load wiring.
<ul style="list-style-type: none"> • Insufficient deceleration time • High input voltage compared to motor rated voltage 	<ul style="list-style-type: none"> • Extend the accel. time • Use a braking resistor
<ul style="list-style-type: none"> • Defective cooling fan • Ambient temperature rise • Clogged filter 	<ul style="list-style-type: none"> • Check for the fan, filter and the ambient temperature
<ul style="list-style-type: none"> • Overload, low speed operation or extended accel. time • Improper V-f characteristic setting 	<ul style="list-style-type: none"> • Measure the temperature rise of the motor. • Decrease the output load • Set proper V/f characteristic
<ul style="list-style-type: none"> • Improper rated current (Cn-09) setting 	<ul style="list-style-type: none"> • Set proper V/f characteristic • Set proper rated current (Cn-09) • If inverter is reset repetitively before fault removed, the inverter may be damaged
<ul style="list-style-type: none"> • Machine errors or overload 	<ul style="list-style-type: none"> • Check the use of the machine • Set a higher production level (Cn-32)
<ul style="list-style-type: none"> • Fault input of external signal ③ ⑤ ⑥ ⑦ and ⑧ 	<ul style="list-style-type: none"> • Identify the fault signal using Un-11
<ul style="list-style-type: none"> • Disturbance of external noise • Excessive impact or vibration 	<ul style="list-style-type: none"> • Reset NVRAM by running Sn-03 • Replace the control board if the fault can't be cleared
<ul style="list-style-type: none"> • Improper setting of ASR parameter or over-speed protective level 	<ul style="list-style-type: none"> • Check the parameters of ASR and the protection level
<ul style="list-style-type: none"> • The PG wiring is not properly connected or open-circuit 	<ul style="list-style-type: none"> • Check the PG wiring
<ul style="list-style-type: none"> • Improper setting of ASR parameter or speed deviation level 	<ul style="list-style-type: none"> • Check parameters of ASR and speed deviation level
<ul style="list-style-type: none"> • External noise • Excessive vibration or impact communication wire • Not properly contacted 	<ul style="list-style-type: none"> • Check the parameter setting, including Sn-01, Sn-02 • Check if the communication wire is properly contacted • Restart, if fault remains, please contact your representative

5.5 COMMON FAULTS & TROUBLESHOOTING

LCD DISPLAY	ERRORS	FAULT CONTACT OUTPUT
(blinking) Alarm DC Volt Low	The main circuit DC voltage becomes lower than the lower under-voltage level before motor starts	No Operation
(blinking) Alarm Over Current	The main circuit DC voltage becomes higher than the lower under-voltage level before the motor starts	No Operation
(blinking) Alarm Ground Fault	The thermal protection contract is input to the external terminal	No Operation
(blinking) Alarm Overheat	Over torque is detected while the output current is larger than the equal to the setting of Cn-26. However, the Sn-12 has been set such that the inverter continues to run and disregard the over-torque warning	No Operation
(blinking) Alarm Over Torque	The temperature of the cooling fan reaches the detection level	No Operation
—	Stall prevention operates while acceleration Stall prevention operates while running Stall prevention operates while deceleration	No Operation
(blinking) Alarm Ext. Fault	Forward and reverse rotation commands are simultaneously detected for a period of time exceeding 500ms. (The inverter is stopped according to the stop method preset by Sn-04)	No Operation
(blinking) Alarm RS-485 Interrupt	MODBUS Communication fault occurs. The inverter remains operating.	No Operation
Comm. Fault	Transmission fault of digital operator	No Operation
(blinking) Alarm BB	External BB signal (terminal ③ is input) The inverter steps and the motors stops without breaking	No Operation
Alarm Input Error	Improper inverter capacity (Sn-01) setting Improper setting of multi-function input signal (Sn-25, 26, 27 and 28) Improper setting of V/F characteristic (Cn-02-08) Improper setting of Cn-18, Ca-19	No Operation
(blinking) Alarm Over Speed	Excessive speed (operation remains)	No Operation
(blinking) Alarm PG Open	PG Open circuit (operation remains)	No Operation
Alarm Sp. Deviat Over	Excessive speed deviation (operation remains)	No Operation
Load Fail	Error during upload and download (operation remains)	No Operation
EEPROM Fault	Operator EEPROM error	No Operation
Upload Error	Data incorrect during communication from the operator to the inverter	No Operation
Download Error	Data incorrect during communication from the operator to the inverter	No Operation
Alarm Auto Turn Error	Motor parameter auto-tuning error	No Operation

5.5 COMMON FAULTS & TROUBLESHOOTING

ERRORS	ACTION TO BE TAKEN
<ul style="list-style-type: none"> • Input voltage drop 	<ul style="list-style-type: none"> • Measure the main circuit DC voltage, if the voltage is lower allowance level, regulate the input voltage
<ul style="list-style-type: none"> • Input voltage rise 	<ul style="list-style-type: none"> • Measure the main circuit DC voltage, if the voltage is higher than allowance level, regulate the input voltage
<ul style="list-style-type: none"> • Overload • Cooling fan fault. Ambient temperature rises • Clogged filter 	<ul style="list-style-type: none"> • Check for the fan, filter and the ambient temperature
<ul style="list-style-type: none"> • Machine error or overload 	<ul style="list-style-type: none"> • Check for the use of the machine
<ul style="list-style-type: none"> • Insufficient Accel/Decel. time • Overload • Excessive load impact occurs while operating 	<ul style="list-style-type: none"> • Set a higher protection level (Cn-32)
<ul style="list-style-type: none"> • Operation sequence error • 3-wire/2-wire selection error 	<ul style="list-style-type: none"> • Increase Accel/Decel time • Check the load
<ul style="list-style-type: none"> • External noise • Excessive vibration or impact on communication wire • Not properly contacted 	<ul style="list-style-type: none"> • Check the circuit of system • Check the setting of system parameters Sn-25, 26, 27, & 28
<ul style="list-style-type: none"> • Comm. between digital operator and inverter has not been established after system starts for 5 seconds • Communication is established after system starts, but transmission fault occurs for 2 seconds 	<ul style="list-style-type: none"> • Check the parameter setting, including Sn-01, Sa-02 • Check if the comm. wire is not properly attached • Restart, if fault remains, please contact us
<ul style="list-style-type: none"> • External BB signal is input 	<ul style="list-style-type: none"> • Re-plug the connector of the digital operators • Replace the control board • After external BB signal is removed, execute the speed search of the inverter
<ul style="list-style-type: none"> • Inverter KVA setting error 	<ul style="list-style-type: none"> • Set proper KVA value. Be aware of the difference of 220V and 440V
<ul style="list-style-type: none"> • The value of Fa-25-Sa-28 is not in ascending order (Ex: Sa-25=03, Sa28=02, those are improper settings) • Set speed search command of 21 and 22 simultaneously 	<ul style="list-style-type: none"> • Set these values by order (the value of Sn-25 must be smaller than those of Sn-26, 27, 28) • Command 21 and 22 can not be set on two multi-function input contacts simultaneously
<ul style="list-style-type: none"> • The values of Ca-02-Cs-08 do not satisfy $F_{max} > , FA > , FB > , F_{min} >$ 	<ul style="list-style-type: none"> • Change the settings
<ul style="list-style-type: none"> • Upper limit and lower limit setting is incorrect 	<ul style="list-style-type: none"> • Change the settings
<ul style="list-style-type: none"> • Improper ASR parameter setting or over-torque protection level 	<ul style="list-style-type: none"> • Check the ASR parameter and over-torque protection level
<ul style="list-style-type: none"> • The circuit of PG is not properly connected or open-circuit 	<ul style="list-style-type: none"> • Check the wiring of PG
<ul style="list-style-type: none"> • Improper ASR parameter setting or over-torque protection level 	<ul style="list-style-type: none"> • Check the ASR parameter and over-torque protection level
<ul style="list-style-type: none"> • Bad communication during operator and inverter • The connector is not properly connected 	<ul style="list-style-type: none"> • Check if the connector is not properly connected
<ul style="list-style-type: none"> • Operator EEPROM error 	<ul style="list-style-type: none"> • Disable load function of operator • Replace the operator
<ul style="list-style-type: none"> • Incorrect inverter data format • Communication noise 	<ul style="list-style-type: none"> • Download the data to the operator again • Check if the connector is not properly connected
<ul style="list-style-type: none"> • Communication noise 	<ul style="list-style-type: none"> • Check if the connector is not properly connected
<ul style="list-style-type: none"> • Inverter capacity and motor rating are not properly matched • The wiring between inverter and motor is disconnected • Motor load unbalance 	<ul style="list-style-type: none"> • Connect the inverter/motor capacity ratio, wiring cable and motor head

5.5 COMMON FAULTS & TROUBLESHOOTING

LCD DISPLAY	ERRORS	FAULT CONTACT OUTPUT
Fault DC Volt Low	The main circuit DC voltage becomes lower than the low voltage detection level (Cn-34)	Operation
Fault Over Current	The inverter output current becomes approx. 200% and above the inverter rated current	Operation
Fault Ground Fault	A ground fault occurs at the inverter output side and the ground-fault current exceeds approx. 50% of the inverter rated current	Operation
Fault Over Voltage	The main circuit DC voltage becomes excessive because of regeneration energy caused by motor decelerating	Operation
Fault Overheat	The temperature of the cooling fan reaches the detection level	Operation
Fault Motor Overload	Motor overload is detected by the electronic thermal relay (motor protection)	Operation
Fault Inverter Overload	The electronic thermal sensor detects inverter overload while the output current exceeds 112% of rated value (inverter protection)	Operation
Fault Over Torque	Over torque is detected while the output current is larger than or equal to the setting of CN-26. (machine prevention)	Operation
Fault Ext. Fault 3	External fault signal ③	Operation
Fault Ext. Fault 5	External fault signal ⑤	Operation
Fault Ext. Fault 6	External fault signal ⑥	Operation
Fault Ext. Fault 7	External fault signal ⑦	Operation
Fault Ext. Fault 8	External fault signal ⑧	Operation
Fault Inverter EEPROM	EEPROM fault EEPROM (BCC, no) is bad	Operation
Fault Inverter A/D	A/D Converter (inside the CPU) fault	Operation
Fault PG over Sp.	Excessive PG speed fault	Operation
Fault PG Open	PG is open-circuit	Operation
Fault Sp Deviat Over	Excessive speed deviation	Operation
Fault RS-485 Interrupt	MODBUS communication fault occurs. The inverter remains operating.	Operation

7. WARRANTY

Warrior Equipment warrants, from the time of delivery and receipt by the original customer, new and unused equipment sold by Warrior Equipment or Warrior Equipment distributors. Goods shall be free from defect in workmanship and materials. Motor, Gearbox Gears, and VFD Inverter are covered for a period of 1 year or 300 hours, whichever comes first. If the product does not function satisfactorily during this period, Warrior Equipment will return the product to full working order for normal use which the product is intended for, with no charge for labor or spare parts, according to the following conditions:

1. The warranty only applies to persons that have legal right to the equipment during the warranty period.
2. The manufacturer's undertaking is limited to the repair of defective parts or the replacement of these according to the manufacturer's assessment. Costs and risks for transport as well as dismantling and reinstallation of the product / products and other direct or indirect costs, associated with the repair in question, are not covered by this warranty.
3. Periodic inspections, adjustments, maintenance work and changes are not covered by the warranty.
4. Warrior Equipment is not liable for any damages to grinding discs or other similar equipment.
5. The warranty only applies to material and design deficiencies and does not apply in the following cases:
 - Damage caused through accidents, carelessness, changes, use of spare parts or grinding tools that are not original components, or incorrect use and installation.
 - Damage caused by lightning, water, fire, vandalism, incorrect mains voltage, incorrect ventilation or other causes that lie outside of the manufacturer's control.
 - Unclaimed Damage caused during shipping. All shipments are insured by the shipper until the receiver signs freight company's release paper. Be sure to inspect before signing. If damaged mark clearly on paper and call us immediately.
6. Warrior Equipment reserves the right to modify the design or make improvements without obligation to change previously manufactured products.
7. All warranty repairs must be carried out by Warrior Equipment or by a Warrior Equipment accredited repair workshop. Costs for repairs, carried out by an unauthorized workshop, will not be reimbursed by Warrior Equipment. If such repairs damage this product these are not covered by the warranty agreement.
8. Warrior Equipment will not be liable for shipping / transportation cost for repairs.
9. See Warrior Care for extended warranty coverage.

8. CONTACT US

Warrior Equipment, a division of Incredible Products, LLC • 1101 Lincoln Ave., Wapakoneta, Ohio 45895 • Office Contact # 1-877-743-9732