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## OWNERS MANUAL

# MODEL 100

## STEREO POWER AMPLIFIER

SERIAL NO.

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#### - IMPORTANT -

#### PLEASE READ THIS PAGE BEFORE OPERATING

## YOUR

#### BGW MODEL 100 POWER AMPLIFIER

Your new BGW power amplifier is designed to provide years of trouble free performance. Observing these few precautions will insure proper operation.

Never connect the output of one channel with that of another.

Never connect a direct short from the output of any channel to ground.

. Connect the power cord to the proper voltage mains as indicated on the rear panel switch. Conversion to another voltage requires the replacement of the fuse.

Connections should be made to the power amplifier with the power OFF.

#### SECTION 1: DESCRIPTION

The BGW Model 100 is the most advanced dual solid state power amplifier available. The basic design criteria used are those. which are applied to present day computers and other related equipment.

The mechanical construction of the Model 100 features an all steel, welded chassis for maximum strength and rigidity.

The on-off switch, headphone jack, gain controls and the solid state (L.E.D.) pilot lamp and clipping indicators are mounted on the front panel for ready access.

The unit has an internal slide switch which instantly converts it from a two channel stereo amplifier to a bridge-connected monaural amplifier.

Only the finest components have been qualified for use in BGW power amplifiers. For example, all resistors used in signal circuits are low noise 5% tolerance carbon film types, all harness wiring is insulated with Teflon, and all circuit boards are made of flame retardant epoxy glass. All transistors used in the signal path are hermetically sealed metal cans--no plastic packages are used.

The packaging inside your 100 is unlike ordinary power amplifiers. The unit features an  $4-3/4 \ge 9-7/8 \ge 1-5/16$  aluminum extrusion. The total radiating surface area of the heat sink is 330 square inches. Each unit's wiring is identical with the next as the circuits are photo etched.

The output stage of your amplifier uses the most powerful type of transistors available. Each channel uses 2, 150-watt dissipation, single-diffused power transistors. The tremendous Safe Operating Area and high degree of redundancy inherent in this arrangement makes the output stage extremely rugged and able to dissipate the total output of the power supply. In this way the need for current limiting circuits has been eliminated along with their associated problems. Load impedances as low as 4-ohms are handled with ease. Electrostatic and other highly reactive speaker systems present no difficulties for the Model 100. All the semiconductors in the output stage are in intimate contact with the heat sink.

The voltage gain circuits are also mounted on the same module. A true operational amplifier integrated circuit, hermetically sealed in a metal can, acts as the front end. The op amp (as they are called) is a special unit featuring high speed (15 MHz) and a high slew rate (50 volts/microsecond) yet still having very low noise due to its darlington input stage and careful design. The op amp stage is followed by a discrete complementary pair acting as an active current source/sink which also provides additional voltage gain. The current source is the ideal way to drive the output stage which is basically a voltage follower.

This sophisticated circuit design makes for an extremely accurate amplifier. The open loop gain is higher than found in the competitors' products. The accuracy of an amplifier is a function of the difference between the open loop gain and the closed loop gain. In this case, the closed loop gain is 26 dB (a voltage gain of only 20) while the open loop gain is about 1,000,000. The accuracy of the 100 is so great that conventional audio test equipment is unable to provide meaningful measurements. Harmonic distortion measurements are simply the residual level of the distortion analyzer. This extremely accurate signal processing enables the Model 100 to drive speakers at very high levels while adding absolutely no coloration of its own. Even at milliwatt levels the output wave-form exhibits no sign of crossover The dynamic range capability of a typical 100 distortion. is 115 dB.

Two red L.E.D. clipping indicators on the front panel utilize an exclusive new BGW circuit. Whenever either channel of the Model 100 is driven into clipping, a corresponding indicator lights and <u>remains</u> lit for .25 seconds. These indicators, which tell the operator that the amplifier is being overdriven, can be invaluable to the engineer or audiophile who must be sure that every component in his system is producing a clean, distortionfree signal. An inadvertant short circuited output will cause the L.E.D. to remain on until the short is removed. The L.E.D. is actually a loss of feedback indicator.

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#### SECTION 2. SPECIFICATIONS

30-watts minimum sine wave continuous average power output per channel with both channels driving 8-ohm loads over a power band from 20 Hz to 20 kHz. The maximum total harmonic distortion at any power level from 250-milliwatts to 30-watts shall be no more than 0.1%.

1 kHz Power: 33-watts into 8-ohms per channel, both channels operating, 0.1% total harmonic distortion.

40-watts minimum sine wave continuous average power output per channel with both channels driving 4-ohm loads over a power band from 20 Hz to 20 kHz. The maximum total harmonic distortion at any power level from 250-milliwatts to 40-watts shall be no more than 0.1%.

1 kHz Power: 44-watts into 4-ohm per channel, both channels operating, 0.1% total harmonic distortion.

80-watts minimum sine wave continuous average power output monaural driving an 8-ohm load over a power band from 20 Hz to 20 kHz. The maximum total harmonic distortion at any power level from 250-milliwatts to 80-watts shall be no more than 0.1%.

1 kHz Power: 88-watts into 8-ohms, 0.1% total harmonic distortion.

Small Signal Frequency Response: +0, -3 dB, 1-Hz to 65-kHz. +0, -0.25 dB, 20-Hz to 20-kHz.

Noise and Hum Level: Better than 106 below rated output into 8-ohms.

Input Sensitivity: .78-volts for 15.6-volts out (full power at 8-ohms). Voltage gain 26 dB (20 times).

Input Impedance: 10,000-ohms.

Damping Factor: Greater than 200 to 1 reference to 8-ohms. Output Impedance: Designed for any load impedance equal to or greater than 4-ohms.

Power Requirements: Switchable between 120-volts @ 3-Amps and 240-volts @ 1.5-Amps. Changing the mains voltage requires replacement of the mains fuse.

Semiconductor Complement: 2 Op Amp IC's (equivalent to 44 transistors each), 20 transistors, 4 zener diodes, and 4 diodes.

Dimensions: 1.75-inch by 19-inch standard rack front panel by 12-inches deep.

Weight: 18 lbs. net, 22 lbs. shipping.

## SECTION 3: INSTALLATION

3.1 Preliminary

DO NOT PLUG THE AMPLIFIER IN YET! SAVE THE CARTON AND PACKING MATERIALS The container should be saved in event the unit is moved or shipped at some future date.

Inspect the unit for damage in transit immediately upon receipt. If damage is found, notify the transportation company immediately. Only the consignee may institute a claim with the carrier for shipping damage. BGW will cooperate fully in such event. Be sure to save the container as evidence of damage for the shipper to inspect.

The Mains (AC line) voltage is indicated by the switch on the rear of the amplifier. Amplifiers supplied for use in the United States are shipped for 120 volts. Only the indicated mains voltage should be used. If the mains voltage must be changed, the fuse must be changed; see Section 3.5.

All connections should be made before power is applied!

DO NOT PLUG THE AMPLIFIER IN YET!

3.2 Mounting and Set-Up

Position the amplifier in its normal operating location. If it is to be rack mounted, the four feet on the bottom of the unit may be removed (there will be no loose hardware inside the amplifier if the feet are removed). Any installation must provide enough air circulation to cool the amplifier.

The amplifier is designed to operate in either the Stereo (2-channel) mode or Monaural (bridged) mode. A slide switch located inside the unit switches from one mode to the other. The unit is shipped in stereo mode. To convert to mono mode, simply remove the four top cover screws on the sides of the amplifier with a Phillips head screwdriver, lift off the cover, and slide the switch inside towards the rear panel for mono operation. Now replace the cover and screws.

3.3 Connecting Input Lines

INPUT CONNECTIONS - STEREO MODE

Shielded output cables from the preamplifier should be connected to the two input jacks on the amplifier. On the standard Model 100, the input jacks require standard 1/4" diameter phone plugs; the input lines should be unbalanced. Adapters are required if the shielded cables have RCA-type phone plugs.

On the Model 100 with Option 01, the input jacks require professional, three-pin, male audio connectors (such as the Cannon XL Series, or Switchcraft A3 Series). To use the Model 100-01 with high impedance, unbalanced input lines, use the jumper plug provided in the transformer socket and connect the input cables as follows:



To use the Model 100-01 with balanced input lines, remove the jumper plugs from the transformer sockets and replace them with transformers of the desired impedance. Connect the input cables as follows:



INPUT CABLE

Input connections should be as short and direct as possible. Shielded cables must be used and both should originate from the same source (i.e., if both channels do not come from the same preamps, ground loop problems may arise).

The source must be capable of delivering 1.25 volts for full output from the amplifier.

For maximum signal to noise ratio, the driving source impedance should be less than 5,000 ohms. Radio frequency interference (RFI), when it occurs, can be reduced or eliminated by employing one of the filters shown below. They should be built in shielded enclosures such as 35mm. aluminum film cans.



INPUT CONNECTIONS - BRIDGE MODE Follow the same procedure as outlined for Stereo mode but use only one shielded cable plugged into the left channel input. Do not connect anything to the right channel input.

3.4 OUTPUT CONNECTIONS - STEREO MODE Connect the left speaker to the binding posts marked Left Ch. and the right speakers to the binding posts marked Right Ch. Observe the phasing of the speakers. Most connectors on speaker cabinets are either color coded or marked +,-. Connect the black or minus (-) terminal on the speaker cabinet to the black binding posts on the amplifier. Connect the other speaker terminal to the red binding post.

Ideally, the output leads should be connected to the amplifier with standard banana plugs; however, the five-way action of the binding posts permit the use of tinned wires or spade lugs. Remember, of course, to put a fuse in series with the load.

OUTPUT CONNECTIONS - BRIDGE MODE Follow the same procedure as outlined for Stereo mode but connect the single output across the two red binding posts of the left and right channels. Do not connect anything to the left or right channel ground binding posts.

3.5 CONNECTING POWER MAINS The Model 100 is furnished with a three wire cord and a grounding plug. Defeating the grounding provision may create hazardous conditions. The amplifier should only be plugged in when it has been established that it is wired for the correct power mains voltage and after all other connections to the amplifier have been made.

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The mains (AC line) voltage is indicated by the switch on the rear of the amplifier. For use in the United States, the switch should read "115", and the fuse in the rear panel fuse holder should be a 2 ampere type 3AG fuse. This allows normal operation with line voltages ranging from 90-130 VAC; however, output power will be reduced if the power mains voltage falls below 120 VAC. For use with line voltages ranging from 220-240 VAC, simply slide the plastic insert in the switch with a ballpoint pen so it reads "230", and replace the fuse in the rear panel fuse holder with a 1 ampere type 3AG fuse.

#### SECTION 4. OPERATION

#### 4.1 Precautions

- 1. Speaker destruction is often due to improper equipment operation. This often occurs when someone without the proper appreciation for the components of a high power, high quality music system has the opportunity to change records or adjust levels. The best protection here is caution. Keep the equipment out of the reach of untrained adults and children.
  - 2. Never parallel the two amplifier output together; instead, connect the amplifier for bridge mode operation (see Sections 3.3 and 3.4).
  - 3. Do not connect an input ground lead to an output ground lead; to do so may cause a ground loop and oscillations.
  - 4. Do not operate the amplifier from power mains which exceed the indicated mains voltage by more than 10%.
  - 5. Never connect the output of the amplifier to another power source such as a battery or power main.
  - 6. Do not expose the amplifier to corrosive chemicals such as lye, soft drinks, salt water, etc. Also never immerse the amplifier in any liquid.
  - 7. Neither the amplifier nor any of its leads should be exposed to areas likely to be struck by lightning.

#### 4.2 Turn-on Procedure

Often, turn-on transients, which can be dangerous to speakers, originate in the pre-amp or tuner. This is especially true of tube-type units. If this situation arises, turn the amplifier on after the other units have had adequate time to stabilize.

#### SECTION 5. CIRCUIT DESCRIPTION

#### 5.1 Amplifier

The signal from J1 is applied to potentiometer R1 which adjusts the amplitude of the amplifier input signal. This signal is applied to the inverting input (pin 2) of the operational amplifier (op amp) IC1 through the coupling network C1, C2, R2, and This network provides a high input impedance to the ampli-R3. fier and prevents any DC from appearing at the op amp input. It also serves as a filter for radio frequency interference.

The output of the op amp is divided by networks C11/R13 and C12/ R14, and is applied to the bases of Q1 and Q2. Q1 and Q2 provide the voltage gain necessary to drive the driver (huffer) transistors Q4 and Q5. Q4 and Q5 are operated in a quasi-complementary configuration with their power transistors, Q6 and Q7. Q6 and Q7 provide a push-pull output which is applied to filters L1/R24 and C17/R25 and then appears at J2. The headphone output passes through R26 and then appears at J4.

To maintain overall amplifier stability and linearity, degenerative feedback is utilized throughout the amplifier. This feedback is also necessary to reduce distortion to within specified limits. R/C networks R10/C10 and R7/C9 condition the feedback signal for application to the non-inverting input (pin 3] of the op amp, IC1.

Except for the input, the amplifier uses direct coupling throughout.

A biasing voltage is applied to the bases of driver transistors Q4 and Q5 by Q3 in a Vbe multiplier configuration. Q3 is attached thermally to the heatsink and, together with R19, provides a variable base hias for Q6 and Q7 that automatically maintains the proper bias voltage with temperature change. The value of R19 is selected to produce a drop of 370 millivolts across R20 and R21 with no signal applied.

Stereo-Monaural operation selection is performed by Switch S1. When S1 is in the "mono" position, it connects the left channel output to the right channel non-inverting input and shorts out the right channel inverting input.

5.2 Clipping Indicator The output of the op amp IC1 is coupled to the base of Q8 through network R27/C19. A voltage of sufficient magnitude to turn on Q8 appears at pin 6 of IC1 whenever the amplifier is driven into clipping because the clipped feedback signal does not match the unclipped input signal. When Q8 turns on, the base of Q10 is driven positive through R29, so Q10 turns on. This turns on the LED, CR3, and pulls the base of Q9 negative, through C18 and R33, which shuts Q9 off. As long as Q9 is off, R31 is no longer held

negative by Q9, so Q10 is held on. As C18 charges through R34, the base of Q9 becomes positive until Q9 turns on, which shuts off Q10 and the LED. Thus, the length of time that the LED is held on is determined by R34 and C18.

#### 5.3 Power Supply

A transformer operated power supply furnishes the required + volts. The transformer, TL, has dual primary and secondary windings and may be operated on 100-120 VAC or 200-240 VAC by appropriately positioning Switch S2. Fuses FL and F2 provide protection to the primary winding. The two secondary windings are connected in parallel and deliver power to a full wave bridge, CR4. The secondary centertap may be grounded to the chassis through TB2. Since neither side of the bridge is grounded, the output appears as +32V and -32V referenced to circuit ground. Each supply is filtered by a 7300 microfarad capacitor, C23 and C24. The filtered outputs are applied directly to all but the operational amplifier circuits, which receive plus 10 volts from R5, CR1 and C5, and minus 10 volts from R6, CR2 and C6.

#### 6.1

#### Warranty

BGW Systems warrants all units for a period of three years from date of sale. This warranty covers both defects in workmanship and materials. If malfunction does occur, the product will be replaced or repaired, at our option, without charge for materials or labor; if returned prepaid to BGW Systems. This warranty does not cover equipment damaged due to negligence, misuse, shipping damage or accident, or if the serial number is defaced, altered or removed, or if the factory lead seal has been broken, or if the equipment has been altered or modified. Please fill out the warranty registration form on the last page and return it to the factory within 2 weeks of purchase.

6.2 Service Options

6.2.1 Factory Service Should service be required, contact the dealer from whom the unit was purchased. Chances are that he will be able to service the unit himself by changing one of the unit's modules. If he is unable to service the unit, he will direct you to return the unit either to the nearest authorized factory service station or the factory itself.

Whenever service is required, the Service Authorization Form should be filled out and sent to whomever will be servicing the amplifier.

If the dealer directs you to return the unit to the factory for service, follow this procedure;

Fill out the Service Authorization Form and mail it to BGW 1. Systems.

2. Repack the unit in the factory supplied shipping container. All units to be returned for factory service must be shipped in this container in order to prevent damage in transit. Replacement containers are available from BGW Systems.

Ship the unit prepaid to BGW Systems. Units will be re-3. turned by freight collect.

Service performed on units which are covered by warranty will be performed with no charge for parts and labor. If the unit is no longer covered by warranty a nominal charge will be made for parts and labor.

#### 6.2.2 User Service

The service information included in this manual is intended for those who wish to service their own units with full understanding that in doing so they render their units ineligible for warranty service; units which are not covered by the warranty will not be repaired without charge.

There is nothing within the amplifier that is user serviceable; service by anyone other than factory instructed personnel is not recommended.

The BGW Model 100 is a state-of-the-art amplifier, and, as such, is fairly complex. Without the proper equipment and knowledge of the amplifier's operation, one risks both unnecessary loss of warranty service privileges and damage to the amplifier.

#### 6.3 General Disassembly for Servicing

1. Remove the eight screws securing the top and bottom covers on the sides of the unit and remove the covers. With these covers removed, all parts of the amplifier circuitry are accessible for measurement or replacement.

2. The main PC board may be removed from the unit and replaced as a module as follows:

- a. Using a pair of long nose pliers, unplug the twelve molex connectors located on the component side of the PC board from their respective pins.
- b. Using a solder removal implement such as a soldervacuum or capilary action braid, unsolder the six potentiometer leads and the four LED leads near the front edge of the PC board.
- c. Using a 5/32" allen driver, remove the four allen head cap screws securing the heatsink to the chassis. The PC board with the heatsink attached may now be removed through the bottom of the chassis.
- d. Insert the potentiometer and LED leads into their respective holes on the new PC board while tightening down the four allen cap screws securing the heatsink to the chassis. Solder the potentiometer and LED leads to the PC board.
- e. Using the diagram provided (Figure 6-1), push the molex connectors firmly on to their respective pins on the PC board.

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Should the jumper plugs originally shipped with the Model 100-01 become lost or destroyed, new ones may be made from standard octal plugs. Follow the schematic below.



NOTE: Rear of plug shown.







QTY.	。 ·
RD TS LIST DESCRIPTION	Cap 240PF 500V Mica Cap 20PF 1KV Disc Cap 47PF 1KV Disc Cap 1000PF 1KV Disc Cap 1000PF 1KV Disc Cap 10UF 35V Tant Cap 10UF 35V Tant Cap 10UF 35V Tant Cap 10UF 35V Tant Cap 015UF 100V Mylar Cap 11UF 100V Mylar Cap 30UF 100V Mylar Cap 4,7 UF 50V Mylar Cap 5
1 0 0 P A R Part No. Main PC Board	$\begin{array}{c} 00000 - 0240\\ 0100 - 0020\\ 0100 - 0047\\ 0129 - 0047\\ 0129 - 0047\\ 0129 - 0047\\ 0216 - 0010\\ 02369 - 0100\\ 02569 - 0470\\ 0369 - 0100\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0010\\ 0369 - 0030\\ 00523 - 3347\\ 1000 - 0250\\ 1854 - 0050\\ 1854 - 0010\\ 1854 - 0409\\ 1854 - 0010\\ 1855 - 0031\\ 1854 - 0409\\ 1854 - 0409\\ 1855 - 0031\\ 1855 - 0031\\ 1855 - 0031\\ 1855 - 0010\\ 1855 - 0001\\ 1855 - 0005\\ 1855 - $
MODEL 1.	

EFERENCE UMBER (S)

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CHASSIS, Cont'd.

PART NO.

REFERENCE NUMBER (S)

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C22 C23, S2

CR4 CR6

R1

C20

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051081

-	DESCRIPTION
	PART NO.

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CIIASSIS, Cont.d .11.

002-1100 Chassis Model 100	0 Panel Fr Finishe	lapter Plate Model 100 ack Input N111 ie Wrap 5 1/2" WRN 5 1/2 ransformer P1440 a Molex 02-04-1112 M004 Diode -32X5/16 PH MS Phi1 B1k -32X5/16 PH MS Phi1 B1k s 560R 1W 10% AB %G 22 19 Str Teflon Red E 5 ITL Washer -32X1/4 Hex Nut bing Heat Shrink Clear 3/32 abing Heat Shrink Clear 3/32 arrier Teflon B1k E witch Toggle MTF106D Model 1 WG 20 19 Str Teflon B1k E arrier Fish Paper 2.50X11.25 arrier Fish Paper 4.75X11.25 arrier Fish Paper 2.50X11.25 arrier Fish Paper 4.75X11.25 arrier Fish Paper 100 hassis Model 100	10 - 1100 30 - 0100 31 - 1100 31 - 11100 31 - 11100 32 - 01000 32 - 01000 32 - 010000 32 - 010000 32 - 0100000 32 - 01000000 32 - 010000000000000000000000000000000000
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00-1050 Knob 2903-ILL Model 50 and 1   20-6992 Barrier Strip 2 Lug 1699-2   21-0110 Barrier Fish Paper 2.50X11.2   21-0110 Barrier Fish Paper 4.75X11.25   21-0110 Barrier Fish Paper 4.75X11.25   21-0120 Barrier Fish Paper 4.75X11.25   21-0120 Barrier Fish Paper 4.75X11.25   21-0120 Barrier Fish Paper 7.98X11.25   20-1100 AWG 20 19 Str Teflon B1k H   06-0183 Cable Pwr 18/3 B1k   00-1100 Panel Fr Finished Model 100	0-1050 Knob 2903-ILL Model 50 and 10 0-6992 Barrier Strip 2 Lug 1699-2 1-0100 Barrier Fish Paper 2.50X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0120 Barrier Fish Paper .88X11.25 3-4123 Lug Crimp #10 16-14 Wire Tape 0-1100 AWG 20 19 Str Teflon B1k E 6-0183 Cable Pwr 18/3 B1k	20 19 Str Teflon Blk E	20-110
20-1100AWG2019StrTeflonBlkE00-1050Knob2903-ILLModel50and120-6992BarrierStrip2Lug1699-221-0100BarrierFishPaper2.50X11.221-0110BarrierFishPaper4.75X11.2521-0120BarrierFishPaper88X11.2513-4123LugCrimp#1016-14WireTap20-1100AWG2019StrTeflonBlkE06-0183CablePwr18/3Blk00	0-1100 AWG 20 19 Str Teflon Blk E 0-1050 Knob 2903-ILL Model 50 and 10 0-6992 Barrier Strip 2 Lug 1699-2 1-0100 Barrier Fish Paper 2.50X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0120 Barrier Fish Paper .88X11.25 3-4123 Lug Crimp #10 16-14 Wire Tape 0-1100 AWG 20 19 Str Teflon Blk E 6-0183 Cable Pwr 18/3 Blk	tch Toggle MTF106D Model 1	40-010
40-0106Switch Toggle MTF106D Model20-1100AWG 20 19 Str Teflon Blk E20-1050Knob 2903-ILL Model 50 and 120-6992Barrier Strip 2 Lug 1699-221-0100Barrier Fish Paper 2.50X11.221-0110Barrier Fish Paper 4.75X11.2521-0110Barrier Fish Paper 4.75X11.2513-4123Lug Crimp #10 16-14 Wire Tap20-1100Panel Fr Fish Paper .88X11.2513-4123Lug Crimp #10 16-14 Wire Tap20-1100Panel Fr Finished Model 100	0-0106 Switch Toggle MTF106D Model 1   0-1100 AWG 20 19 Str Teflon Blk E   0-1050 Knob 2903-ILL Model 50 and 10   0-6992 Barrier Strip 2 Lug 1699-2   1-0100 Barrier Fish Paper 2.50X11.25   1-0110 Barrier Fish Paper 4.75X11.25   1-0120 Barrier Fish Paper 7.50X11.25   1-0110 Barrier Fish Paper 7.50X11.25   1-0110 Barrier Fish Paper 7.50X11.25   0-110 Barrier Fish Paper 8.8X11.25   0-110 Barrier Fish 8.10   1-012 Barrier Fish 8.10   0-110 Barrier Fish 8.10   0-110 Barrier 7.5   0-110 Barrier 7.10	t Rubber ADII 3M	99-500
99-5003Feet Rubber ADII 3M40-0106Switch Toggle MTF106D Model20-1100Switch Toggle MTF106D Model20-1050Knob 2903-ILL Model 50 and 120-6992Barrier Strip 2 Lug 1699-221-0100Barrier Fish Paper 2.50X11.221-0110Barrier Fish Paper 4.75X11.221-0110Barrier Fish Paper 7.50X11.2513-4123Lug Crimp #10 16-14 Wire Tap20-1100Str 7eflon B1k E00-1100Barrier Fish Paper 1.88X11.2513-4123Lug Crimp #10 16-14 Wire Tap20-1100Panel Fr Finished Model 100	9-5003Feet Rubber ADU 3M0-0106Switch Toggle MTF106D Model 10-1100ANG 20 19 Str Teflon B1k E0-1050Knob 2903-ILL Model 50 and 100-1050Barrier Strip 2 Lug 1699-21-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 4.75X11.251-0110Barrier Fish Paper 4.75X11.253-4123Lug Crimp #10 16-14 Wire Tape0-1100ANG 20 19 Str Teflon B1k E	e Holder 450R NT	99-450
99-4500Fuse Holder 450k NTT99-5003Feet Rubber ADH 3M99-5003Feet Rubber ADH 3M $40-0106$ Switch Toggle MTF106D Model $20-1100$ AWG 20 19 Str Teflon Blk E $20-1050$ Knob 2903-ILL Model 50 and 1 $20-6992$ Barrier Strip 2 Lug 1699-2 $21-0110$ Barrier Fish Paper 2.50X11.2 $21-0110$ Barrier Fish Paper 4.75X11.25 $21-0110$ Barrier Fish Paper 7.88X11.25 $13-4123$ Lug Crimp #10 16-14 Wire Tap $20-1100$ Panel Fr Finished Model 100 $00-1100$ Panel Fr Finished Model 100	9-4500Fuse Holder 450R NTT9-5003Feet Rubber ADH 3M9-5003Feet Rubber ADH 3M0-0106Switch Toggle MTF106D Model 10-1100AWG 20 19 Str Teflon B1k E0-1000Knob 2903-ILL Model 50 and 100-6992Barrier Strip 2 Lug 1699-21-0100Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 4.75X11.251-0120Barrier Fish Paper 2.50X11.251-0120Barrier Fish Paper 10.16-140-1100Barrier Fish Paper 2.50X11.250-1100Barrier Fish Paper 10.16-140-1100Barrier Fish Paper 10.16-140-1100Barrier Fish Paper 30.11.250-1100Barrier Fish Paper 30.11.250-1100Barrier Fish Paper 30.11.2510-1100Barrier Fish Paper 30.1410-1100Barrier Fish Paper 30.1410-1100Barrier Fish 70.1510-1100Barrier Fish 70.1410-1100Barrier Fish 70.1410-1100<	e llolder	99-440
99-4406Fuse Holder450R NTT99-4500Fuse Holder 450R NTT99-4500Feet Rubber ADH 3M99-5003Feet Rubber ADH 3M40-0106Switch Toggle MTF106D Model20-1100AWG 20 19 Str Teflon B1k E20-1050Barrier Strip 2 Lug 1699-221-0110Barrier Fish Paper 2.50X11.221-0110Barrier Fish Paper 4.75X11.2521-0110Barrier Fish Paper 4.75X11.2521-0120Barrier Fish Paper 74,75X11.2521-0120Barrier Fish Paper 16-14 Wire Tap20-1100Cable Pwr 18/3 B1k00-1100Panel Fr Finished Model 100	9-4406Fuse Holder45009-4500Fuse Holder 450R NTT9-5003Feet Rubber ADH 3M9-5003Feet Rubber ADH 3M0-0106Switch Toggle MTF106D Model 10-1100ANG 20 19 Str Teflon B1k E0-1000Knob 2903-ILL Model 50 and 100-1000Barrier Strip 2 Lug 1699-21-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 4.75X11.253-4123Lug Crimp #10 16-14 Wire Tape0-1100ANG 20 19 Str Teflon B1k E0-1100Barrier Fish Paper .88X11.251-0120Barrier Fish Paper B1k E0-1100Barrier Fish Paper .88X11.250-1100Barrier Fish Paper .88X11.25	e 3AG2.5	99-250
99-2500Fuse 3AG2.5A99-4406Fuse Holder99-4500Fuse Holder 450R NTT99-5003Fuse Holder 450R NTT99-5003Feet Rubber ADH 3M40-0106Switch Toggle MTF106D Model20-1100AWG 20 19 Str Teflon B1k E20-1050Knob 2903-1LL Model 50 and 120-1050Barrier Fish Paper 2.50X11.221-0110Barrier Fish Paper 4.75X11.221-0110Barrier Fish Paper 4.75X11.221-0120Barrier Fish Paper 7.88X11.2513-4123Lug Crimp #10 16-14 Wire Tap20-1100Panel Fr Finished Model 10000-1100Panel Fr Finished Model 100	9-2500 Fuse Iolder   9-4406 Fuse Iolder   9-4500 Fuse Iolder   9-4500 Fuse Iolder   9-5003 Feet Rubber Abli 3M   9-5003 Feet Rubber Abli 3M   0-0106 Switch Toggle MTF106D Model 1   0-1100 AWG 20 19 Str Teflon Blk E   0-1050 Knob 2903-ILL Model 50 and 10   0-6992 Barrier Strip 2 Lug 1699-2   1-0110 Barrier Fish Paper 2.50X11.25   1-0110 Barrier Fish Paper 3.50X11.25   1-0110 Barrier Fish Paper 4.75X11.25   1-0110 Barrier Fish Paper 1.650   0-1100 Barrier Fish Paper 1.88X11.25   0-1100 Barrier Fish Paper 1.650   0-1100 Barrier Fish Paper 1.88X11.25   0-1100 Barrier Fish Paper 3.50X11.25	e 3AG2A	99-200
99-2000 Fuse 3AG2A   99-2500 Fuse 3AG2.5A   99-4500 Fuse Ilolder   99-4500 Fuse Ilolder   99-4500 Fuse Ilolder   99-5003 Fuse Ilolder A50R NTT   99-5003 Feet Rubber ADII 3M   99-5003 Feet Rubber ADII 3M   99-5003 Feet Rubber ADII 3M   99-5003 Switch Toggle MTF106D Model   20-1100 AWG 20 19 Str Teflon B1k E   20-1100 Barrier Strip 2 Lug 1699-2   21-0110 Barrier Fish Paper 2.50X11.2   21-0110 Barrier Fish Paper 3.50X11.2   21-0110 Barrier Fish Paper 4.75X11.2   21-0110 Barrier Fish Paper 3.50X11.2   21-0110 Barrier Fish Paper 4.75X11.2   21-0110 Barrier Fish Paper 1.4   20-1100 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-1100 Barrier Fish Paper 1.0   20-1100 Barrier Fish Paper 1.0   20-1100 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-1100 Parrier Fish Paper 1.0   20-1100 <td>9-2000 Fuse 3AG2A - 9-2500 Fuse 3AG2.5A 9-4406 Fuse Ilolder 450R NTT 9-4500 Fuse Ilolder 450R NTT 9-5003 Feet Rubber ADII 3M 0-0106 AWG 20 19 Str Teflon B1K E 0.0100 AWG 20 19 Str Teflon B1K E 0.0100 Knob 2903-1LL Model 50 and 10 0.05992 Barrier Strip 2 Lug 1699-2 1-0110 Barrier Fish Paper 2.50X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0110 Crimp #10 16-14 Wire Tape 0-1100 AWG 20 19 Str Teflon B1K E</td> <td>k Input N11</td> <td>110-66</td>	9-2000 Fuse 3AG2A - 9-2500 Fuse 3AG2.5A 9-4406 Fuse Ilolder 450R NTT 9-4500 Fuse Ilolder 450R NTT 9-5003 Feet Rubber ADII 3M 0-0106 AWG 20 19 Str Teflon B1K E 0.0100 AWG 20 19 Str Teflon B1K E 0.0100 Knob 2903-1LL Model 50 and 10 0.05992 Barrier Strip 2 Lug 1699-2 1-0110 Barrier Fish Paper 2.50X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0110 Crimp #10 16-14 Wire Tape 0-1100 AWG 20 19 Str Teflon B1K E	k Input N11	110-66
99-0112 Jack Input N112B   99-2000 Fuse 3AG2A   99-2500 Fuse 3AG2.5A   99-4500 Fuse 101der   99-4500 Fuse 101der   99-4500 Fuse 101der   99-4500 Fuse 101der   99-5003 Fuse 101der   20-1100 Switch Toggle MTF106D Model   20-1000 Barrier Fish Paper 2.50X11.2   21-0110 Barrier Fish Paper 3.50X11.2   21-0110 Barrier Fish Paper 3.50X11.2   21-0120 Barrier Fish Paper 4.75X11.2   21-0120 Barrier Fish Paper 3.50X11.2   21-0120 Barrier Fish Paper 1.0   20-1100 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-1100 Puse 4.18/3	9-0112 Jack Input N112B 9-2000 Fuse 3AG2A • 9-2500 Fuse 3AG2A • 9-4406 Fuse 101der 450R NTT 9-4500 Fuse 101der 450R NTT 9-5003 Feet Rubber ADH 3M 0-0106 AWG 20 19 Str Teflon B1k E 0-1100 Knob 2903-1LL Model 50 and 10 NWG 20 19 Str Teflon B1k E 0-6992 Barrier Strip 2 Lug 1699-2 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 4.75X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0120 Barrier Fish Paper 88X11.25 1-0110 Barrier Fish Paper 88X11.25 1-0110 Cimp #10 16-14 Wire Tape 0-1100 AWG 20 19 Str Teflon B1k E 0-1100 AWG 20 19 Str Teflon B1k E	ctor Terminal Strip 7	31-300
31-3007Connector Terminal Strip 799-0112Jack Input N112B99-0112Fuse 3AG2A99-2500Fuse 3AG2.5A99-2500Fuse 3AG2.5A99-4500Fuse 101der99-4500Fuse 101der99-5003Fuse 101der A50R NTT99-5003Fuse 101der A50R NTT99-5003Switch Toggle MTF106D Model40-0106Switch Toggle MTF106D Model20-1100AWG 20 19 Str Teflon B1k E20-1100Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 1.0121-0110Barrier Fish Paper 1.0121-0120Barrier Fish Paper 1.0121-0120Barrier Fish Paper 1.0121-0120Barrier Fish Paper 1.0120-1100AWG 20 1920-1100Oult 1.0100-1100Panel Fr Finished Model 100	1-3007 Connector Terminal Strip 7 Lu   9-0112 Jack Input N112B   9-2500 Fuse 3AG2A   9-2500 Fuse 3AG2.5A   9-2500 Fuse 3AG2.5A   9-2500 Fuse 3AG2.5A   9-2500 Fuse 101der   9-4406 Fuse 101der   9-4500 Fuse 101der   9-4500 Fuse 101der   9-5003 Fuse 101der   0-1100 Suttch Toggle MTF106D Model   0-1100 Barrier Strip 2 Lug 1699-2   1-0110 Barrier Fish Paper 2.50X11.25   1-0110 Barrier Fish Paper 3.75011.25   1-0110 Barrier Fish Paper 4.75X11.25   1-0110 Barrier Fish Paper 3.600011.25   1-0110 Barrier Fish Paper 3.75011.25   10-1100 Barrier Fish Paper 3.600011.25   10-1100	t XFMR Mtg Model 100	04 - 113
04-1130 Bracket XFMR Mtg Model 100   31-3007 Connector Terminal Strip 7   99-0112 Jack Input N112B   99-2000 Fuse 3AG2A   99-2500 Fuse 3AG2.5A   99-4500 Fuse 3AG2.5A   99-4500 Fuse 3AG2.5A   99-4500 Fuse 101der   99-4500 Fuse 101der   99-4500 Fuse 101der   99-5003 Switch Toggle MTF106D Model   40-0106 Switch Toggle MTF106D Model   20-1100 AWG 20 19 Str Tef1on B1k E   20-1100 Barrier Fish Paper 2.50X11.   21-0110 Barrier Fish Paper 3.50X11.2   21-0110 Barrier Fish Paper 4.75X11.2   21-0110 Barrier Fish Paper 4.75X11.2   21-0110 Barrier Fish Paper 3.50X11.2   21-0110 Barrier Fish Paper 4.75X11.2   21-0110 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-1100 Barrier Fish Paper 3.50X11.2   21-0120 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 3.50X11.2   20-1100 Barrier Fish Paper 4.75X11.2   20-	4-1130Bracket XFMR Mtg Model 100 $1-3007$ Connector Terminal Strip 7 Lu $9-0112$ Jack Input N112B $9-0112$ Jack Input N112B $9-2500$ Fuse 3AG2A $9-2500$ Fuse 3AG2.5A $9-4406$ Fuse 3AG2.5A $9-4406$ Fuse 101der $9-4500$ Fuse 101der $9-5003$ Fuse 101der $9-5003$ Fuse 101der $0-1100$ Fuse 101der $0-1100$ Suitch Toggle MTF106D Model $0-1100$ Barrier Strip 2 Lug 1699-2 $0-1000$ Barrier Fish Paper 2.50X11.25 $1-0110$ Barrier Fish Paper 3.75X11.25 $1-0110$ Barrier Fish Paper 3.55X11.25 $1-0110$ Barrier Fish Paper 3.50X11.25 $0-1100$ Barrier Fish Paper 3.50X11.25 $1-0110$ Barrier Fish Paper 3.50X11.25 $1-0110$ Barrier Fish Paper 3.55X11.25 $0-1100$ Barrier Fish Paper 3.7510 $0-1100$ Barrier Fish Paper 3.55 $0-1100$ Barrier Fish Paper 3.55 $0-1100$ <td< td=""><td>Heat Shrink Clear 3/3</td><td>01 - 009</td></td<>	Heat Shrink Clear 3/3	01 - 009
01-0093Tubing Heat Shrink Clear $3/$ 04-1130Bracket XFMR Mtg Model 10031-3007Jack Input N112B99-0112Jack Input N112B99-0112Fuse $3AG2A$ 99-2500Fuse $3AG2.5A$ 99-4406Fuse IlolderFuse Ilolder A50R NTT99-4500Fuse Ilolder A50R NTT99-4500Fuse Ilolder A50R NTT99-5003Switch Toggle MTF106D Model40-0106Switch Toggle MTF106D Model20-1100Switch Toggle MTF106D Model20-1100Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 1.0020-1100Barrier Fish Paper 1.0020-1100Barrier Fish Paper 1.0021-0110Barrier Fish Paper 1.0021-0110Barrier Fish Paper 1.0021-0110Barrier Fish Paper 1.0020-1100Barrier Fish Paper 1.0020-1100Barrier Fish Paper 1.0020-1100Barrier Fish Paper 1.0020-1100Panel Fr Finished Model 100	1-0093Tubing Heat Shrink Clear $3/32$ 4-1130Bracket XFMR Mtg Model 1001-3007Connector Terminal Strip 7 Lu9-0112Jack Input N112B9-2000Fuse $3AG2A$ 9-2500Fuse $3AG2A$ 9-2500Fuse $3AG2A$ 9-4500Fuse $3AG2A$ 9-4500Fuse $101der$ 9-5003Fuse $101der$ 9-1100AWG0-1100Barrier Strip 2 Lug0-6092Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 3.50X11.251-0110Barrier Fish Paper 2.50X11.251-0110Barrier Fish Paper 3.50X11.251-0110Barrier Fish Paper 3.50X11.2510-1100Barrier Fish Paper 3.50X11.2510-1100AWG0-1100Barrier Fish Paper 3.50X11.250-1100AWG0-1100AWG0-1100Barrier Fish Pap	/4 Hex Nut	30-025
30-0250 $6-32X1/4$ Hex Nut30-0250 $6-32X1/4$ Hex Nut01-0093Tubing Heat Shrink Clear $3/$ 04-1130Bracket XFMR Mtg Model 10031-3007Jack Input N112B99-0112Fuse $3AG2A$ 99-2000Fuse $3AG2.5A$ 99-2500Fuse $101der$ 99-2500Fuse $101der$ 99-4406Fuse $101der$ 99-5003Fuse $101der$ 99-5003Fuse $101der$ 99-5003Switch Toggle MTF106D Model40-0106AWC20-1120Barrier Fish Paper 2.50X11.21-0100Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 3.50X11.221-0110Barrier Fish Paper 4.75X11.221-0110Barrier Fish Paper 1.020-1110Barrier Fish Paper 3.50X11.221-0110Barrier Fish Paper 1.021-0110Barrier Fish Paper 1.021-0110Barrier Fish Paper 1.021-0110Barrier Fish Paper 1.021-0110Barrier Fish Paper 3.50X11.221-0110Barrier Fish Paper 3.50X11.220-11100AWG 2.020-11100AWG 2.020-11100Panel Fr Finished Model 3.0	0-0250 6-32X1/4 Hex Nut   1-0093 Tubing Heat Shrink Clear 3/32   4-1130 Bracket XFMR Mtg Model 100   1-3007 Connector Terminal Strip 7 Lu   9-0112 Jack Input N112B   9-2000 Fuse 3AG2A   9-2500 Fuse 3AG2A   9-2500 Fuse 3AG2.5A   9-2500 Fuse 101der   9-4500 Fuse 101der   9-5003 Fuse 101der   9-1100 Mode1 50 and 10   0-1100 Barrier Fish Paper 2.50X11.25   0-1100 Barrier Fish Paper .88X11.25   1-0110	6 ITL Washer	0
32-0000 #6 ITL Washer   30-0250 6-32X1/4 Hex Nut   30-0250 6-32X1/4 Hex Nut   01-0093 Bracket XFMR Mtg Model 100   03-112 Bracket XFMR Mtg Model 100   03-0112 Brack Input N112B   99-0112 Jack Input N112B   99-0112 Fuse 3AG2A   99-2500 Fuse 3AG2.5A   99-2500 Fuse 101der   99-4500 Fuse 101der   99-5003 Switch Toggle MTF106D Model   20-1100 Barrier Fish Paper 2.50X11.   21-0110 Barrier Fish Paper 3.50X11.   21-0110 Barrier Fish Paper 4.75X11.   21-0110 Barrier Fish Paper 3.50X11.   21-0110 Barrier Fish Paper 4.75X11.   20-1100 Barrier Fish Paper 3.50X11.   20-1100 Barrier Fish Paper 4.75X11.	2-0000 #6 ITL Washer   0-0250 6-32X1/4 Hex Nut   1-0093 Tubing Heat Shrink Clear 3/32   1-0093 Bracket XFMR Mtg Model 100   0-1012 Bracket XFMR Mtg Model 100   0-0112 Bracket XFMR Mtg Model 100   0-0112 Brack Input N112B   0-0112 Brack Input N112B   0-2000 Fuse 3AG2A   0-2000 Fuse 3AG2A   0-2000 Fuse 3AG2.5A   9-2000 Fuse 3AG2.5A   9-2500 Fuse 3AG2.5A   9-2500 Fuse 101der   9-1000 Med 20	22 19 Str Teflon Red	-112
22-1120 AWG 22 19 Str Teflon Red E   330-0250 6-32X1/4 Hex Nut   30-0250 6-32X1/4 Hex Nut   01-0093 Bracket XFMR Mtg Model 100   03-0112 Dack Input N112B   99-0112 Jack Input N112B   99-2000 Fuse 3AG2A   99-2000 Fuse 3AG2A   99-2000 Fuse 101der   99-2001 Fuse 101der   99-2003 Fuse 101der   99-1100 Barrier Strip 2   20-1100 Barrier Fish Paper 2.50X11.   21-0110 Barrier Fish Paper 2.50X11.   21-0120 Barrier Fish Paper 2.50X11.   21-0120 Barrier Fish Paper 3.88X11.2   21-0120 Barrier Fis	2-1120 AWG 22 19 Str Teflon Red E   2-0000 #6 ITL Washer   0-0250 6-32X1/4 Hex Nut   1-0093 Tubing Heat Shrink Clear 3/32   1-0003 Bracket XFMR Mtg Model 100   1-3007 Jack Input N112B   9-0112 Jack Input N112B   9-0112 Jack Input N112B   9-2000 Fuse 3AG2A   9-2000 Fuse 3AG2.5A   9-2000 Fuse 3AG2.5A   9-2000 Fuse 101der 450R NTT   9-2500 Fuse 101der 450R NTT   9-4500 Fuse 101der 450R NTT   9-4500 Fuse 101der 450R NTT   9-5003 Switch Toggle MTF106D Model 1   0-1100 Barrier Strip 2 Lug 1699-2   0-1100 Barrier Fish Paper 2.50X11.25   1-0110 Barrier Fish Paper 3.50X11.25   1-0110 Barrier Fish Paper 3.50X11.25   10-1020 Barrier Fish Paper 4.75X11.25   10-1020 Barrier Fish Paper 3.50X11.25   10-1120 Barrier Fish Paper 3.50X11.25   10-1020 Barrier Fish Paper 3.50X11.25   10-1100 Barrier Fish Paper 3.50X11.25   10-1100 Bar	560R 1W 10% AB	-560
10-5601 Res 560R 1W 10\$ AB   22-1120 AWG 22 19 Str Teflon Red E   32-0000 #6 ITL Washer   32-0000 #6 ITL Washer   32-0000 #6 ITL Washer   32-0000 #6 ITL Washer   32-0003 Bracket XFMR Mtg Model 100   31-3007 Gonnector Terminal Strip 7   31-3007 Jack Input N112B   99-0112 Fuse 3AG2A   99-2000 Fuse 3AG2.5A   99-2000 Fuse 3AG2.5A   99-2500 Fuse 3AG2.5A   99-4406 Fuse 101der   99-4500 Fuse 101der   99-2500 Fuse 101der   99-2500 Fuse 101der   99-2500 Fuse 101der   99-4406 Fuse 101der   99-2500 Fuse 1001der   99-4400 Fuse 1001der   99-2500 Fuse 101der   99-4406 Fuse 101der   99-2500 Fuse 1001der   99-4400 Fuse 10006   99-4400 Fuse 1006   99-4400 Fuse 1006   90-100 Suitch Togg1e MTF106D   20-1100 </td <td>0-5601 Res 560R 1W 10% AB   2-1120 #G ITL Washer   2-0000 #G ITL Washer   0-0250 6-32X1/4 Hex Nut   1-0093 Bracket XFMR Mtg Model 100   1-3007 6-32X1/4 Hex Nut   1-0093 Bracket XFMR Mtg Model 100   1-3007 50-32X1/4 Hex Nut   1-3007 6-32X1/4 Hex Nut   1-3007 50-32X1/4 Hex Nut   1-3007 5100   510 Bracket XFMR Mtg Model 100   1-3007 Jack Input N112B   9-0112 Fuse 3AG2A   9-2000 Fuse 3AG2.5A   9-2000 Fuse 1001der   9-2500 Fuse 1001der   9-4406 Fuse 1001der   9-2500 Fuse 1001der   9-4406 Fuse 1001der   9-4500 Fuse 1001der   9-1100 Switch Toggle MTF106D Model   0-110</td> <td>2X5/16 PH MS Phil</td> <td>-331</td>	0-5601 Res 560R 1W 10% AB   2-1120 #G ITL Washer   2-0000 #G ITL Washer   0-0250 6-32X1/4 Hex Nut   1-0093 Bracket XFMR Mtg Model 100   1-3007 6-32X1/4 Hex Nut   1-0093 Bracket XFMR Mtg Model 100   1-3007 50-32X1/4 Hex Nut   1-3007 6-32X1/4 Hex Nut   1-3007 50-32X1/4 Hex Nut   1-3007 5100   510 Bracket XFMR Mtg Model 100   1-3007 Jack Input N112B   9-0112 Fuse 3AG2A   9-2000 Fuse 3AG2.5A   9-2000 Fuse 1001der   9-2500 Fuse 1001der   9-4406 Fuse 1001der   9-2500 Fuse 1001der   9-4406 Fuse 1001der   9-4500 Fuse 1001der   9-1100 Switch Toggle MTF106D Model   0-110	2X5/16 PH MS Phil	-331
11-33126-32X5/16 PH MS Phil B1k10-5601Res 560R 1W 10% AB22-1120AMG 22 19 Str Teflon Red E32-0000#6 ITL Washer32-02506-32X1/4 Hex Nut30-02506-32X1/4 Hex Nut31-0093Bracket XFMR Mtg Model 10004-1130Bracket XFMR Mtg Model 100031-0093Bracket XFMR Mtg Model 10009-0112Jack Input N112B99-0112Fuse 3AG2A99-2500Fuse 3AG2A99-2500Fuse 101der 450R NTT99-4406Fuse Ilolder 450R NTT99-4500Fuse 101der 450R NTT99-4500Fuse 101der 700 Nodel00-1000Switch Toggle MTF106D Model20-1100Barrier Strip 2 Lug 1699-221-0110Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.20-1100Barrier Fish Paper 4.75X11.21-0110Barrier Fish Paper 4.75X11.20-1100Barrier Fish Paper 4.75X11.20-1100Pa	1-3312 6-32X5/16 PH MS Phil Blk   0-5601 Res 560R 1W 10% AB   2-1120 AWG 22 19 Str Teflon Red E   2-0000 #6 ITL Washer   2-0000 #6 ITL Washer   1-0003 Bracket XFMR Mtg Model 100   1-0003 Bracket XFMR Mtg Model 100   1-3007 Jack Input N112B   1-3007 Jack Input N112B   9-0112 Fuse 3AG2A   9-2000 Fuse 3AG2.5A   9-2000 Fuse 101der   9-2000 Fuse 101der   9-2000 Fuse 101der A50R NTT   9-2000 Fuse 101der A50R NTT   9-2500 Fuse 101der A50R NTT   9-2600 Fuse 100 Ger A50R NTT   9-2500 Fuse 100 Ger A50R NTT   9-2600 Fuse 100 Ger A50R NTT   9-2100 Fuse 190 Ger A50R NTT	004 Diode	-400
00-4004 1N4004 Diode   11-3312 6-32X5/16 PH MS Phil Blk   10-5601 Res 560R 1W 10% AB   22-1120 AWG 22 19 Str Teflon Red E   32-0000 #6 ITL Washer   32-01250 6-32X1/4 Hex Nut   32-01200 #6 ITL Washer   30-0250 6-32X1/4 Hex Nut   31-0093 Bracket XFMR Mtg Model 100   01-0093 Bracket XFMR Mtg Model 100   04-1130 Bracket XFMR Mtg Model 100   09-0112 Puse 3AG2A   99-0112 Fuse 3AG2.5A   99-2000 Fuse 3AG2.5A   99-2000 Fuse 3AG2.5A   99-2000 Fuse 101der 450R NTT   99-2500 Fuse 3AG2.5A   99-2500 Fuse 3AG2.5A   99-2500 Fuse 3AG2.5A   99-2500 Fuse 101der 450R NTT   99-2500 Fuse 101der 700G19   99-2500 Fuse 101der 73   99-2500 Fuse 101der 73   99-2500 Fuse 101der 73   99-2000 Barrier 510   99-4406 Rubber ADH 3M   20-1100 Barrier Fish Paper 2.50X11. <t< td=""><td>0-4004 1N4004 Diode   1-3312 6-32X5/16 PH MS Phil Blk   0-5601 Res 560R 1W 10% AB   0-5601 Res 560R 1W 10% AB   2-1120 AWG 22 19 Str Teflon Red E   2-0000 6-32X1/4 Hex Nut   1-0053 Bracket XFMR Mtg Model 100   1-0093 Bracket XFMR Mtg Model 100   1-1300 Connector Terminal Strip 7 Lu   1-3007 Jack Input N112B   1-3007 Jack Input N112B   9-0112 Fuse 3AG2.5A   9-2000 Fuse Ilolder   9-2000 Fuse Ilolder A50R NTT   9-2500 Fuse Ilolder A50R NTT   9-2400 Fuse Ilolder A50R NTT   9-24100 Barrier Strip 2 Lug 1699-2   0-1</td><td>Molex 02-04-111</td><td>-111</td></t<>	0-4004 1N4004 Diode   1-3312 6-32X5/16 PH MS Phil Blk   0-5601 Res 560R 1W 10% AB   0-5601 Res 560R 1W 10% AB   2-1120 AWG 22 19 Str Teflon Red E   2-0000 6-32X1/4 Hex Nut   1-0053 Bracket XFMR Mtg Model 100   1-0093 Bracket XFMR Mtg Model 100   1-1300 Connector Terminal Strip 7 Lu   1-3007 Jack Input N112B   1-3007 Jack Input N112B   9-0112 Fuse 3AG2.5A   9-2000 Fuse Ilolder   9-2000 Fuse Ilolder A50R NTT   9-2500 Fuse Ilolder A50R NTT   9-2400 Fuse Ilolder A50R NTT   9-24100 Barrier Strip 2 Lug 1699-2   0-1	Molex 02-04-111	-111
57-1112Lug Molex 02-04-1112 $00-4004$ $11-3312$ $6-32X5/16$ PH MS Phil Blk $11-3312$ $6-32X5/16$ PH MS Phil Blk $10-5601$ $Res 560R$ 1W 10% AB $22-1120$ $AMG$ 22 19 Str Teflon Red E $32-0000$ $46$ ITL Washer $22-1120$ $46$ ITL Washer $32-0000$ $6-32X1/4$ Hex Nut $31-0093$ $Bracket XFMR Mtg Model 10050-0112Bracket XFMR Mtg Model 10099-2000Fuse 3AG2A99-2000Fuse 3AG2A99-2000Fuse 1001der99-2000Fuse 1001der100-1050$	1-1112 Lug Molex 02-04-1112   0-4004 1N4004 Diode   0-5601 Res 560R 1W 10% AB   2-1120 AWG 22 19 Str Teflon Red E   2-1120 AG 1TL Washer   0-0003 H6 ITL Washer   1-3001 AG 1TL Washer   0-0250 6-32X1/4 Hex Nut   1-3003 Bracket XFMR Mtg Model 100   4-1130 Connector Terminal Strip 7 Lu   9-0112 Fuse 3AG2A   9-2000 Fuse 100der   9-2001 Fuse 100der   9-2001 Fuse 100der   9-2000 Fuse 100der   9-2001 Fuse 100der   9-2001 Fuse 100der   9-2001 Fuse 100der   9-2003 Fuse 100der   9-2000 Fuse 100der   9-2500 Fuse 100der <td>Molex 02-05-110</td> <td>-110</td>	Molex 02-05-110	-110
31-1105Lug Molex 02-05-1105 $37-1112$ Lug Molex 02-04-1112 $11-3312$ $6-32X5/16$ PH MS Phi1 B1k $11-3312$ $6-32X5/16$ PH MS Phi1 B1k $10-5601$ $86$ TL Washer $52-1120$ $46$ TL Washer $32-0000$ $6-32X1/4$ Hex Nut $22-1120$ $46$ TL Washer $32-0000$ $6-32X1/4$ Hex Nut $31-3007$ $522X1/4$ Hex Nut $31-3007$ $523X1/4$ Hex Nut $31-3007$ $523X1/4$ Hex Nut $99-0112$ $792/6$ $99-0112$ $792/6$ $99-2500$ </td <td>1-1105 Lug Molex 02-05-1105   1-1112 Lug Molex 02-04-1112   1-3312 Lug Molex 02-04-1112   1-3312 6-32X5/16 PH MS Phil B1k   0-5601 AWG 22 19 Str Teflon Red E   2-1120 #6 ITL Washer   0-0003 Bucket XFMR Mtg Model 100   1-3007 6-32X1/4 Hex Nut   1-1130 Bracket XFMR Mtg Model 100   4-1130 Connector Terminal Strip 7 Lu   1-3007 Jack Input N112B   9-0112 Fuse 3AG2A   9-2000 Fuse Ilolder   9-2000 Fuse 100 der   9-2500 Fuse 3AG2.5A   9-2500 Fuse 100 der   9-4406 Fuse 100 der</td> <td>sformer P1440</td> <td>-010</td>	1-1105 Lug Molex 02-05-1105   1-1112 Lug Molex 02-04-1112   1-3312 Lug Molex 02-04-1112   1-3312 6-32X5/16 PH MS Phil B1k   0-5601 AWG 22 19 Str Teflon Red E   2-1120 #6 ITL Washer   0-0003 Bucket XFMR Mtg Model 100   1-3007 6-32X1/4 Hex Nut   1-1130 Bracket XFMR Mtg Model 100   4-1130 Connector Terminal Strip 7 Lu   1-3007 Jack Input N112B   9-0112 Fuse 3AG2A   9-2000 Fuse Ilolder   9-2000 Fuse 100 der   9-2500 Fuse 3AG2.5A   9-2500 Fuse 100 der   9-4406 Fuse 100 der	sformer P1440	-010
00-0100Transformer P144031-1105Lug Molex 02-05-1105 $31-1112$ Lug Molex 02-06-1112 $00-4004$ $01ex 02-06-1112$ $11-3312$ $6-32X5/16$ PH MS Phil B1k $11-3312$ $6-32X5/16$ PH MS Phil B1k $10-5601$ $6-32X5/16$ PH MS Phil B1k $10-5601$ $6-32X5/16$ PH MS Phil B1k $22-1120$ $46$ ITL Washer $30-0250$ $6-32X1/4$ Hex Nut $32-0000$ $6-32X1/4$ Hex Nut $32-0000$ $6-32X1/4$ Hex Nut $31-3007$ $5-32X1/4$ Hex Nut $99-0112$ $7-362$ Hup N112B $99-2000$ $Fuse 3AG2A$ <td< td=""><td>0-0100 Transformer P1440   1-1105 Lug Molex 02-05-1105   1-1112 Lug Molex 02-06-1112   1-3312 0-4004   0-5601 MN4004 Diode   1-3312 6-32X5/16 PH MS Phil Blk   1-3312 6-32X5/16 PH MS Phil Blk   1-3312 6-32X5/16 PH MS Phil Blk   2-1120 AWG 22 19 Str Teflon Red H   2-1120 AWG 22 14 Hex Nut Tub   1-0093 Bracket XFMR Mtg Model 100 D D D   1-0012 Bracket XFMR Mtg Model 100 D D D D   1-3007 Connector Terminal Strip 7 Lu D D D D   1-3007 Jack Input N112B Fuse Hoter Nut NT D D D D</td></td<> <td>Wrap 5 1/2" WRN 5</td> <td>9-055</td>	0-0100 Transformer P1440   1-1105 Lug Molex 02-05-1105   1-1112 Lug Molex 02-06-1112   1-3312 0-4004   0-5601 MN4004 Diode   1-3312 6-32X5/16 PH MS Phil Blk   1-3312 6-32X5/16 PH MS Phil Blk   1-3312 6-32X5/16 PH MS Phil Blk   2-1120 AWG 22 19 Str Teflon Red H   2-1120 AWG 22 14 Hex Nut Tub   1-0093 Bracket XFMR Mtg Model 100 D D D   1-0012 Bracket XFMR Mtg Model 100 D D D D   1-3007 Connector Terminal Strip 7 Lu D D D D   1-3007 Jack Input N112B Fuse Hoter Nut NT D D D D	Wrap 5 1/2" WRN 5	9-055
99-0550Tie Wrap 5 $1/2$ " WRN 5 $1/2$ 99-0550Transformer P144031-1105Lug Molex 02-05-110557-1112Lug Molex 02-04-111211-3312Kes 560R 1W 10% AB11-33126-32X5/16 PH MS Phi1 B1k12-5601AWG 22 19 Str Teflon Red H22-1120AWG 22 19 Str Teflon Red H32-0000#6 ITL Washer33-00250Tubing Heat Shrink Clear 3/30-0250Fuse S60R 1W 10% AB31-3007Jack Input N112B31-3007Jack Input N112B99-2000Fuse 3AG2.5A99-2000Fuse IIolder99-2000Fuse IIolder A50R NTT99-2000Fuse IIolder A50R NTT99-2000Fuse S4G2.5A99-2000Fuse S4G2.5A99-2000Fuse IIolder A50R NTT99-2000Fuse IIolder A50R NTT99-2000Fuse S4G2.5A99-4406Fuse IIolder A50R NTT99-2000Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse IIolder A50R NTT99-2112Fuse S4G2.5A99-4406Fuse IIolder A50R NTT99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2112Fuse S4G2.5A99-2110Fuse S4G2.5A99-3112Fuse S4G2.5A99-3112 <td>9-0550 Tie Wrap 5 1/2" WRN 5 1/2   0-0100 Transformer P1440   1-1105 Lug Molex 02-05-1105   10-4004 Diode   0-4004 Bolex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Lug Molex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Sub Molex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Kes 560R 1W 10% AB   0-5601 Res 560R 1W 10% AB   2-1120 ANG 22 19 Str Teflon Red E   2-1120 ANG 22 19 Str Teflon Red I   2-1120 ANG 22 19 Str Teflon Red I   1-0093 Bracket XFMR Mtg Model 100   10-01250 6-32X1/4 Hex Nut   11-0093 Bracket XFMR Mtg Model 100   11-300 Connector Terminal Strip 7 Lu   11-300 Fuse Holder A50K NTT   10-2500 Fuse Holder A50K   10-2500 Fuse Holder A50K</td> <td>ack Input N111</td> <td>9-011</td>	9-0550 Tie Wrap 5 1/2" WRN 5 1/2   0-0100 Transformer P1440   1-1105 Lug Molex 02-05-1105   10-4004 Diode   0-4004 Bolex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Lug Molex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Sub Molex 02-04-1112   1-3312 Molex 02-04-1112   1-3312 Kes 560R 1W 10% AB   0-5601 Res 560R 1W 10% AB   2-1120 ANG 22 19 Str Teflon Red E   2-1120 ANG 22 19 Str Teflon Red I   2-1120 ANG 22 19 Str Teflon Red I   1-0093 Bracket XFMR Mtg Model 100   10-01250 6-32X1/4 Hex Nut   11-0093 Bracket XFMR Mtg Model 100   11-300 Connector Terminal Strip 7 Lu   11-300 Fuse Holder A50K NTT   10-2500 Fuse Holder A50K   10-2500 Fuse Holder A50K	ack Input N111	9-011
99-0111Jack Input N11199-0550Tie Wrap 5 $1/2"$ WRN 5 $1/2$ 99-0550Transformer P144051-1105Lug Molex 02-05-110551-1112Lug Molex 02-04-111211-3312Kes 560R 1W 10% AB11-33126-32X5/16 PH MS Phi1 B1k11-3312Res 560R 1W 10% AB11-3312AMG 22 19 Str Teflon Red E52-1120AMG 22 19 Str Teflon Red I32-0000#6 ITL Washer53-0000#6 ITL Washer73-00250FUbing Heat Shrink Clear 3/71-0112Bracket XFMR Mtg Model 10073-307Jack Input N112B99-2000Fuse 3AG2.5A99-2000Fuse 3AG2.5A99-2000Fuse 101der 450R NTT99-2000Fuse 101der 450R NTT99-2000Fuse 101der 450R NTT99-2000Barrier Fish Paper 2.50X11.99-4406Rubber ADH 3M99-21100Barrier Fish Paper 2.50X11.99-4406Switch Toggle MTF106D Model20-1100Barrier Fish Paper 2.50X11.21-0110Barrier Fish Paper 2.50X11.21-0120Barrier Fish Paper 2.50X11.21-0120Barrier Fish Paper 2.50X11.21-0120Barrier Fish Paper 2.50X11.21-0120Barrier Fish Paper 2.50X11.20-1100Barrier Fish Paper 3.75X11.21-0120Barrier Fish Paper 4.75X11.20-1100Barrier Fish Paper 2.50X11.20-1100Barrier Fish Paper 2.50X11.20-1100Barrier Fish Paper 4.75X11.20-1100Barrier Fish Paper 2.50X11. <t< td=""><td>9-0111Jack Input N1119-0550Tie Wrap 5 <math>1/2</math>" WRN 5 <math>1/2</math>9-0550Transformer P14401-1105Lug Molex 02-05-111051-1112Lug Molex 02-04-11121-3312Kes 560R 1W 10% AB0-5601AWG 22 19 Str Teflon Red H2-1120AMG 22 19 Str Teflon Red H1-3312Fubing Heat Shrink Clear <math>3/32</math>10-0093Bracket XFMR Mtg Model 10010-1112Bracket XFMR Mtg Model 10011-3307Jack Input N112B11-3007Jack Input N112B11-3007Suf2A9-2000Fuse IOlder9-2000Fuse IOlder9-2000Fuse SAG2.A9-2000Fuse SAG2.A9-2000Fuse SAG2.A9-2000Fuse IOlder A50N NTT9-2000Fuse SAG2.5A9-2500Fuse IOlder A50N NTT9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse IOlder A50N NTT9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A<t< td=""><td>dapter Plate Model</td><td>0 - 110</td></t<></td></t<>	9-0111Jack Input N1119-0550Tie Wrap 5 $1/2$ " WRN 5 $1/2$ 9-0550Transformer P14401-1105Lug Molex 02-05-111051-1112Lug Molex 02-04-11121-3312Kes 560R 1W 10% AB0-5601AWG 22 19 Str Teflon Red H2-1120AMG 22 19 Str Teflon Red H1-3312Fubing Heat Shrink Clear $3/32$ 10-0093Bracket XFMR Mtg Model 10010-1112Bracket XFMR Mtg Model 10011-3307Jack Input N112B11-3007Jack Input N112B11-3007Suf2A9-2000Fuse IOlder9-2000Fuse IOlder9-2000Fuse SAG2.A9-2000Fuse SAG2.A9-2000Fuse SAG2.A9-2000Fuse IOlder A50N NTT9-2000Fuse SAG2.5A9-2500Fuse IOlder A50N NTT9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse IOlder A50N NTT9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A9-2500Fuse SAG2.5A <t< td=""><td>dapter Plate Model</td><td>0 - 110</td></t<>	dapter Plate Model	0 - 110

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**J1** 

CR5 R 38

TB1 J4 F2 F1 For F1 For F2

S3

TB2

P1

22.

REFERENCE NUMBER (S)

PART NO. DESCRIPTION

III. PACKING CONTAINER

9700-1100 Manual Model 100 9851-1100 Ctn 19 3/4X14 5/8X5 1/4 PRTD 9854-0024 Bubble Pac 24" 9860-0002 Tape 3" Eggshell MH 61M03P

Y

2 RL .001

QTY.

#### LIMITED ONE YEAR WARRANTY

BGW SYSTEMS, INC., (BGW), 13130 South Yukon Avenue, Hawthorne, California, 90250, warrants to the original owner all parts, except front panels, knobs, cases and cabinets, of every new BGW product to be free from defects in materials or workmanship, as hereinafter provided, for one (1) year from the original date of purchase.

BGW will at its option, repair or replace any equipment covered by this warranty which becomes defective, malfunctions or otherwise fails to conform with this warranty under normal use and service during the term of this warranty, at no charge for parts or labor.

In order to obtain warranty service, the equipment, together with the original or a machine reproduction of the Bill of Sale or other dates, proof-of-purchase document describing the equipment, must be delivered to an Authorized BGW Dealer/Service Center in the continental United States, or to BGW at the above address, at the owners expense. Any evidence of alteration, erasing or forgery of proof-of-purchase documents will be cause to void the warranty. Collect shipments to BGW will be refused unless previously authorized. The names and addresses of Authorized BGW Service Stations may be obtained by writing to BGW Warranty Department at the above address.

This warranty does not cover defects, malfunctions or failures resulti ; from shipping or transit accidents, abuse, misuse, operation contrary to furnished instructions, operation on incorrect power supplies, operation with faulty associated equipment, modification, alteration, improper servicing, tampering or normal wear and tear. Equipment on which the serial number has been defaced or removed shall not be eligible for warranty service. Should any equipment submitted for warranty service be found ineligible therefore, an estimate of repair cost will be furnished and the repair will be accomplished if requested by the owner upon receipt of payment or acceptable arrangements for payment.

ANY IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. BGW SHALL NOT BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS 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 is the only expressed warranty applicable to BGW products. BGW neither assumes nor authorizes anyone to assume for it any other expressed warranty.

Completion and return of the owner registration card enclosed with the equipment is requested, but is not a condition for obtaining warranty service.

BGW reserves the right to make changes or improvements in design or manufacturing without incurring any obligation to change or improve products manufactured prior thereto.