

	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	I	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	N	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	G	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	O	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

Bingo King Flashboard



Operators Manual

www.bingoking.com

Bingo King Flashboard Operator's Manual

Version 1.2

January 2007

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**Bingo King Co.
2807 Lincoln Way
Lynnwood, WA 98087
Phone: 425.745.3700**

Table of Contents

1. Unpacking	2
Warranty Assurance	3
Flashboard	4
2. Flashboard Connection/Installation	5
Accessing 4" Flashboard Lamps	6
Accessing 8" Flashboard Lamps	7
Changing Flashboard Light Bulbs	8
8" Flashboard Assembly	9
Electrical Connections.....	9
Mechanical/Electrical Assembly.....	10
3. Flashboard Diagrams.....	11
Data Cable Diagram	11
Bridge Rectifier	12
Printed Circuit Board Diagram	13
Printed Circuit Board Darlington Map	14
4" Flashboard Wiring Diagrams	15
4" Numbers Only.....	15
4" Game Indicator	15
4" Dollar Value	16
8" Flashboard Wiring Diagrams	17
8" Game Indicator	17
8" Dollar Value	17
4. Warranty	18

Unpacking

Chapter

1

The Bingo King Co. designed your new flashboard to have a distinctively attractive appearance, and we used careful manufacturing and assembly techniques to preserve this appearance. Each Bingo King Flashboard is inspected for scratches, bumps or abrasions during packing, and is warranted to be free from defects.

DAMAGE ACTION PROCESS

Your Bingo King Co. equipment contains delicate electronic equipment. It is imperative that you thoroughly inspect the contents of the package before accepting product delivery from the carrier.

In case of severe damage, refuse the equipment from the carrier. Contact your local Bingo King distributor for immediate replacement.

If the product is damaged but acceptable, make a note on the bill of lading before accepting. Take a photo of the damage before and after unpacking as a record of claim against the carrier. Contact the carrier's agent immediately for inspection. Be sure to obtain a copy of the inspection report for your records.

Warranty Assurance

You must keep a copy of your receipt or invoice for proof of purchase. Please review the warranty information on page 18 of this manual.

If there are any questions, contact your distributor or call Technical Assistance at:

866-405-3482



TECHNICAL ASSISTANCE CENTER

*Providing Proactive Solutions
Through Quality Service and Support*

Support Hours: 8:00 AM to 12:00 AM EST

866.405.3482 • www.bingoking.com

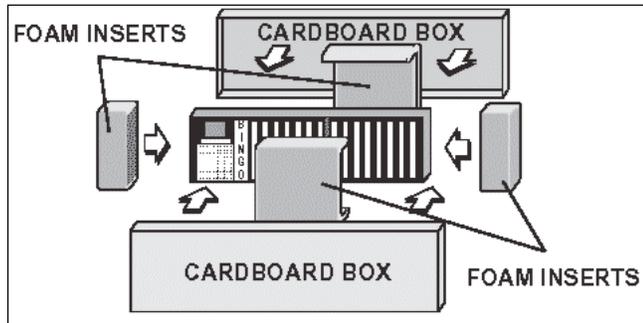
Flashboard

CAUTION:

Please take great care when unpacking the flashboard from the packing material. Cutting the packing material too aggressively may lead to flashboard damage.



The flashboard is banded into a heavy cardboard enclosure with foam inserts at each end and in the middle. This carton is marked with various warning labels and stampings. Lay the carton flat, observing that the outside overlapping cover of the flashboard is on the top side.



Before opening, closely inspect the carton for evidence of shipping damage such as puncture holes, tears, and crushed edges or corners. Damage to the carton may mean damage to the flashboard. If damage is detected refer to the Damage Action Process section (pg. 2) for procedures.

Use scissors to cut all straps. Carefully lift off the carton top. Cut the tape on the four corners of the carton bottom and the retaining tape on the center foam insert then lay the carton flaps down flat. Slide both ends and the top center foam pieces off to allow access to the flashboard. To prevent scratches, make sure the flashboard remains on the cardboard prior to actual installation. Obtain assistance in setting the flashboard upright.

Do not destroy or discard carton materials until after final inspection and testing.

Flashboard Connection/ Installation

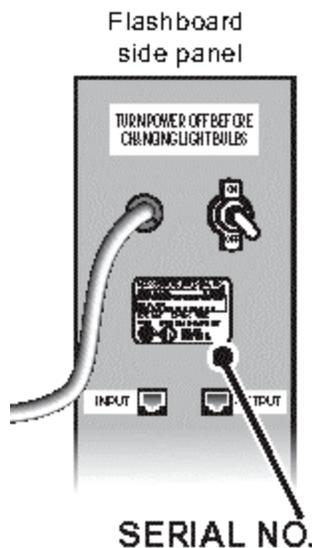
Chapter

2

Note:

The new style Bingo King flashboards may require a signal adapter to properly work with older style or other manufacturer's equipment. Contact your Bingo King distributor for more information.

1. Data connections for the bingo flashboards are made with your console's data cable output connectors, located on console's input/output panel.
2. Install the flashboard data cable. When possible, we recommend using a one-piece cable avoiding splices, adapters and other mating devices. Wiring to the flashboard may be permanently installed using a wire mold. Where a permanent installation is not possible, install the flashboard data cable through the walls and/or ceiling to where the console can be rolled in and easily connected with all data and power cables.



CAUTION:

Avoid running the flashboard cable next to high-current lines such as smoke eaters, air conditioners, public address systems, etc.

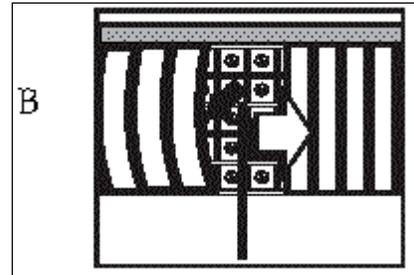
3. Utilize the telephone style data cable provided with the flashboard and plug the data cable into your console's I/O panel and then the telephone jack on side of the flashboard labeled "ALT INPUT."
4. You may have an installation that requires hook up of more than one flashboard. In such an instance, the second and subsequent flashboards may be daisy chained by connecting the data cable to the "ALT OUTPUT" connection on the first flashboard to the "ALT INPUT" connection on the second flashboard, and so on.
5. When mounting the flashboard to the wall or hanging from a ceiling, take great care to attach mounting hardware to solid wood, brick, or metal. Use only the manufacturer's approved hanging hardware. Hanging a flashboard by its handles may cause an unsafe condition.

CAUTION:

Flashboards can weigh anywhere from 80 to 600 pounds. If you are not confident in hanging your flashboard(s) safely, please contact a qualified and licensed rigger and electrician for proper installation. In many cases, the local building inspector may require a permit as well as an inspection of the site for structural stability.

Accessing 4" Flashboards Lamps

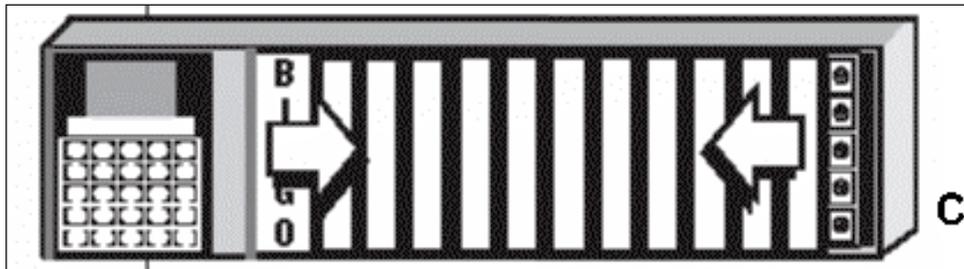
1. Remove the retaining strip next to the vertical bingo lamps. This is accomplished by gently pushing in the low side acrylic panel while grasping the retaining strip and gently pulling it out and to the right. (Refer to drawing B.) Once the strip is removed, slide the acrylic panels to gain access to the light bulbs needing replaced. (Refer to drawing C).



2. Change the light bulb(s) as necessary (Refer to Flashboard Light Bulb section, pg. 8).

3. Slide the acrylic panels to their home position.

4. Re-insert the retaining strip.



Note:



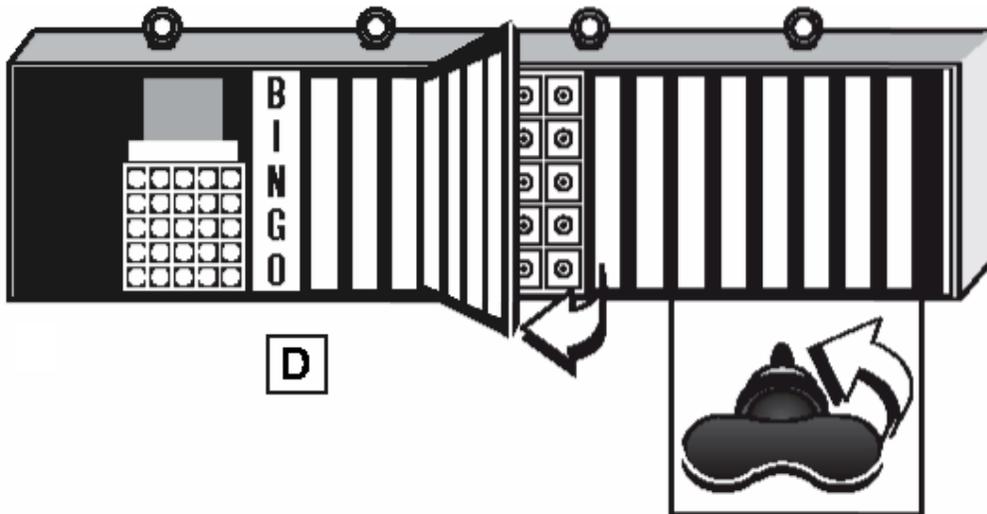
28-VOLT
MINIATURE BAYONET
LIGHT BULB

The 1820 miniature bayonet lamp is standard on most manufacturers' flashboards. (Check individual flashboard specifications). A good lamp should have a resistance measurement of about 28 ohms. Inexpensive lamps often have a poor quality and do not have consistent resistance ratings. Using a lamp that is too far out of specifications could produce too much heat and draw too much current, causing premature failure and possible damage to your flashboard electronics and/or plexiglass.

CAUTION:

Turn off and unplug your console and/or flashboard before performing any maintenance. Failing to perform this very important step could lead to equipment damage and/or personal injury!

Accessing 8" Flashboard Lamps



1. Open individual acrylic panels by locating the two 1/4 turn fasteners for each panel and twisting each a 1/4 turn counter-clockwise while gently pushing in.

Note:

Power Pack/Game Indicator sections require the use of a Phillips screwdriver.

2. Gently open the acrylic panels allowing the Velcro tabs to release.
3. Change the light bulb(s) as necessary (Refer to Flashboard Light Bulb section, pg. 8).
4. Close the acrylic panels and apply gentle pressure to lock the Velcro tabs.
5. Lock the acrylic panels in place by gently pushing in the 1/4 turn fastener, compressing the spring and twisting 1/4 turn clockwise.

Changing Flashboard Light Bulbs

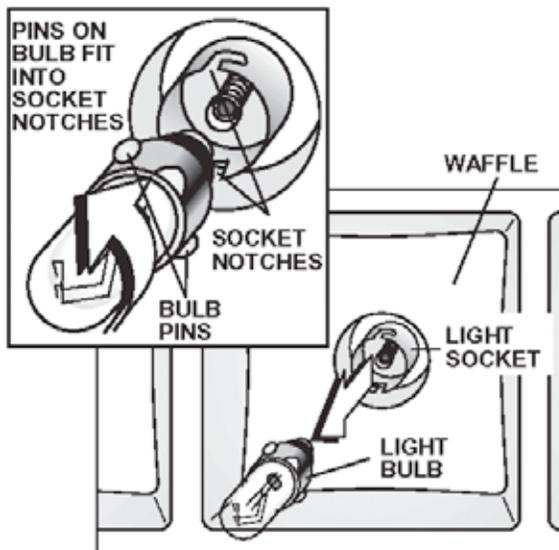
CAUTION:

Turn off and unplug your console and/or flashboard before performing any maintenance. Failing to perform this very important step could lead to equipment damage and/or personal injury!

1. Gently push light bulb in while turning counterclockwise. Socket is spring loaded and only requires a $\frac{1}{4}$ turn to release the light bulb from the socket.
2. Remove the light bulb from the socket.
3. Insert the new light bulb by aligning light bulb pins with the light socket notches and gently pushing in and turning clockwise. Twist $\frac{1}{4}$ turn to secure the light bulb in place.
4. Additional light bulbs may be purchased from your distributor or a local electrical or electronics supply house. We recommend using only high quality replacement light bulbs for extended life and to minimize the chance of printed circuit board failures.

Note:

The 1820 miniature bayonet lamp is standard on most manufacturers' flashboards. (Check individual flashboard specifications) A good lamp should have a resistance measurement of about 28 ohms. Poor quality lamps often do not have a consistent resistance rating. Using a lamp that is out of specifications could produce too much heat and draw too much current causing premature failure and possible damage to your flashboard electronics and/or plexiglass.



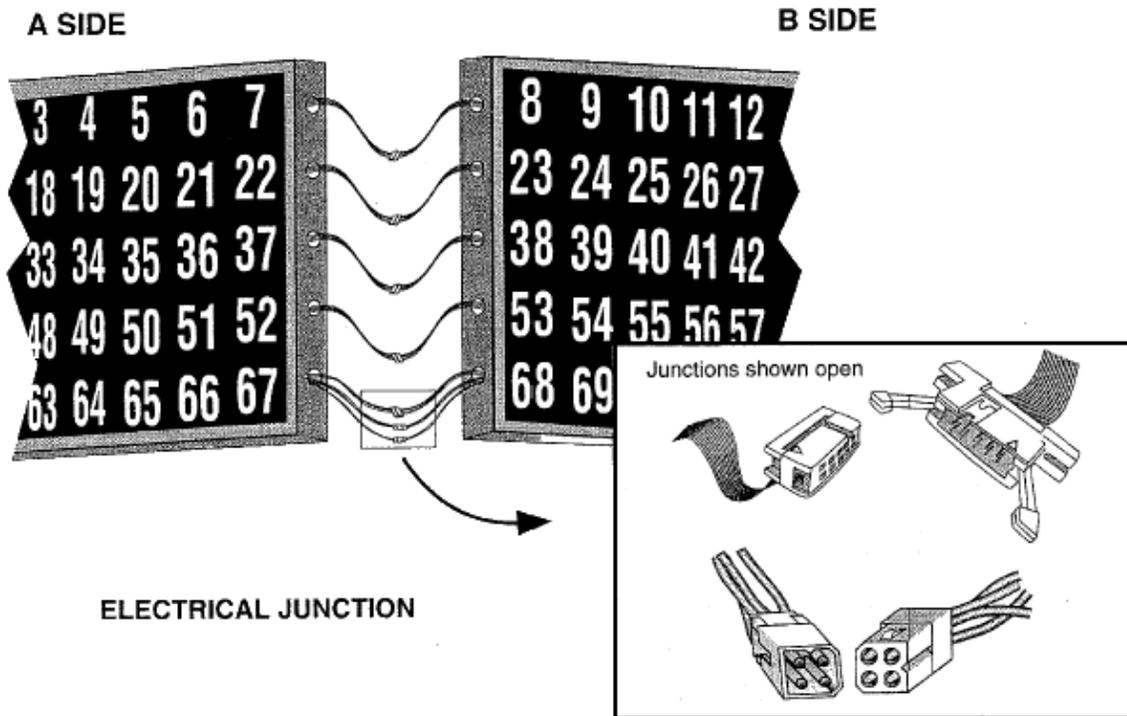
28-VOLT
MINIATURE BAYONET
LIGHT BULB

8" Flashboard Assembly

Electrical Connections

When the two flashboard halves are positioned so the open ends are adjacent to each other, connect each 10 pin data connector with its corresponding half (male/female connector junction). Be careful to position the key and arrow marks so they align with each other and lock together.

Next, connect the 4-pin power connectors located in the lower section of each half. These connectors are keyed and labeled to insure positive connection.



Mechanical/Electrical Assembly

Once the electrical connections have been made on your flashboard, remove the masonite backing near the unfinished or open halves on each flashboard section. Each masonite panel maybe slightly different, so take notice of which panel goes on which half for easier reinstallation.

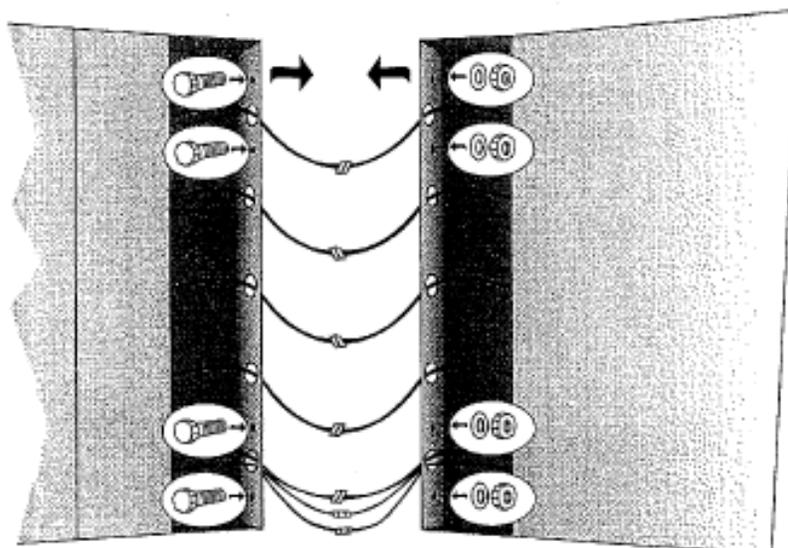
Move the flashboard halves together and remove the interconnecting cable slack by pulling the excess cable back into the each of the flashboard halves. Fasten the flashboard halves together using the four (4) 1/4 -20 bolts, washers, and nuts.

Note:

At this point it is a good idea to test the flashboard(s) before reattaching the masonite panels and hanging the flashboard to assure the cabling has been assembled properly.

Place the masonite panels back in place and fasten.

The flashboard is now ready for hanging. When moving the flashboard, please make sure the cables are in the flashboard and are not pinched between the halves.

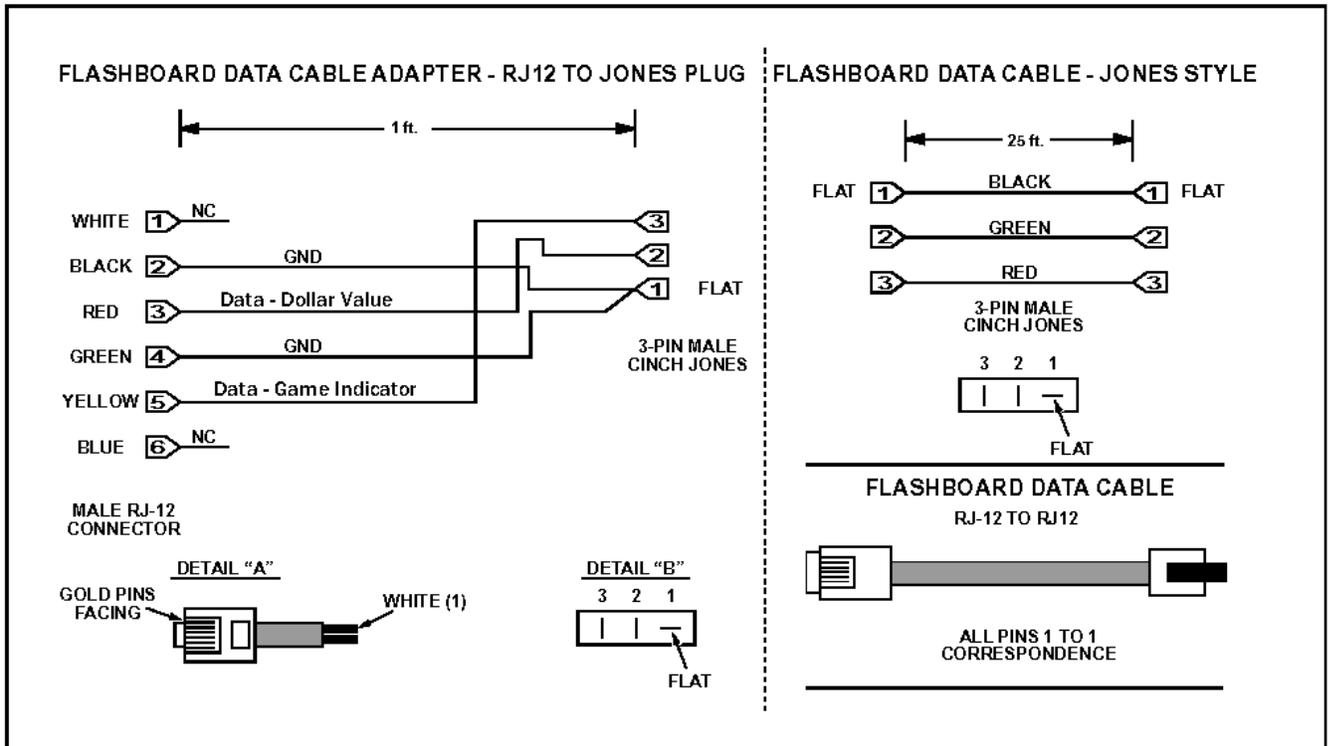


BACK VIEW OF FLASHBOARD

Flashboard Diagrams

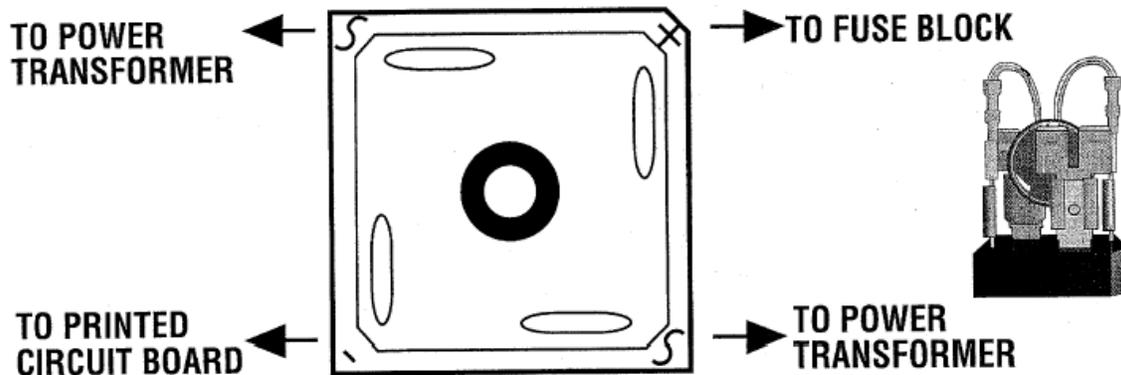
Chapter 3

Data Cable Diagram



Bridge Rectifier

The bridge rectifier supplies the DC voltage to the flashboard which powers the printed circuit board and lights the lamps. The power transformer knocks the line voltage down to about 28 to 30 volts AC and then the bridge rectifier will rectify or convert this AC voltage into a DC voltage.



CAUTION:

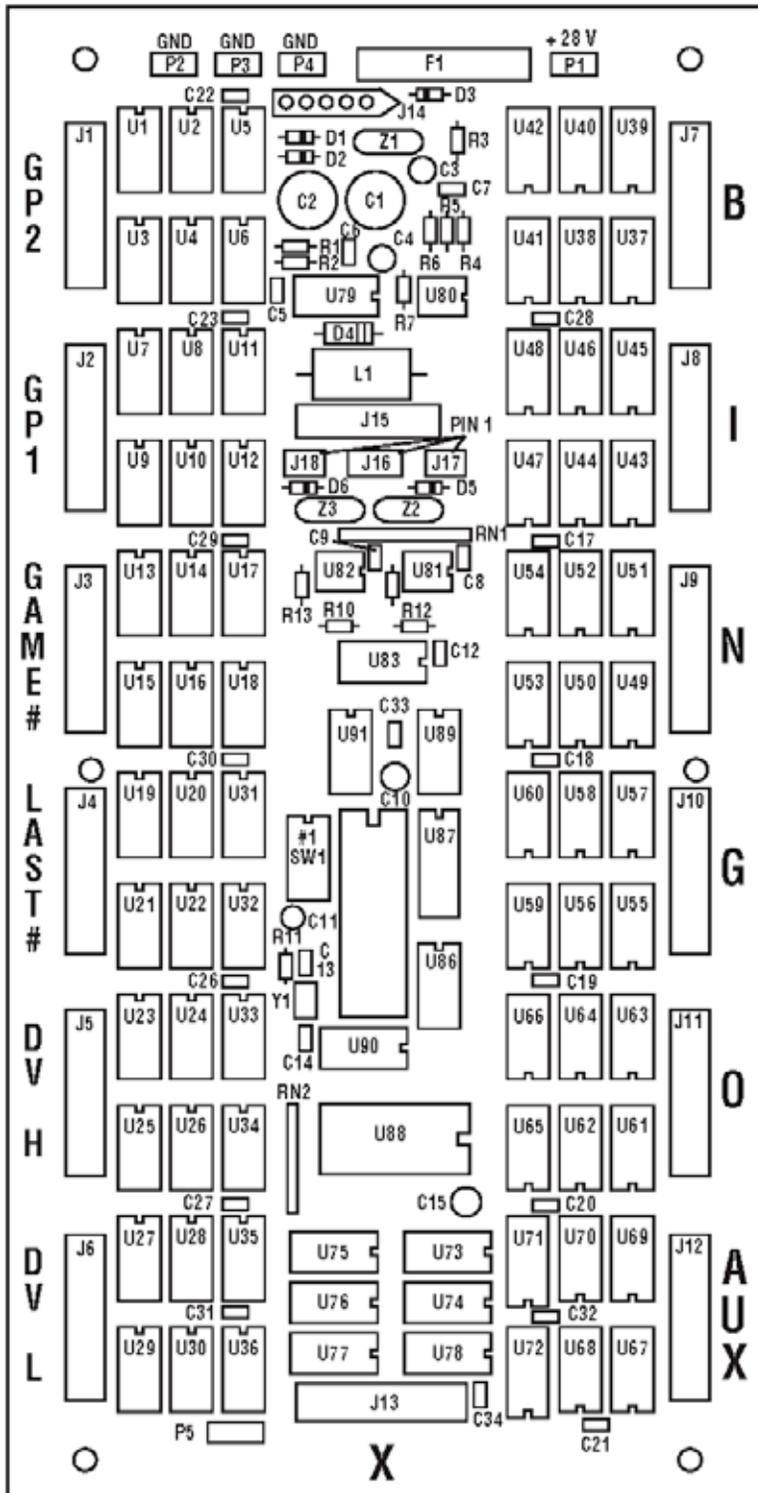
If you are unsure about working with electricity, please consult your distributor or an electrician. Although the voltage on a bridge rectifier is only 28 volts, there is line voltage (110 volts AC) inside of the flashboard, and this can cause injury or even death. Also, if the bridge rectifier is improperly replaced it could cause other damage to your flashboard and/or circuitry.

The component attached to the top of the bridge rectifier is a metal oxide varistor (MOV) spike protector. This component helps to ease incoming voltage spikes to protect your quality bingo equipment. If this fails, it may short and cause the fuse to blow. It can be disconnected for troubleshooting, but should be replaced as soon as possible. Contact your Bingo King distributor for replacement details.

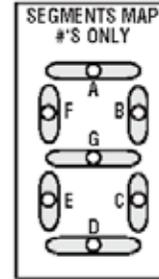
The MOV should be connected across the AC lines coming into the bridge rectifier.



Printed Circuit Board Diagram

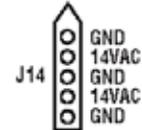


FRONT VIEW SEGMENTS



FRONT VIEW

B	I	N	G	O
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

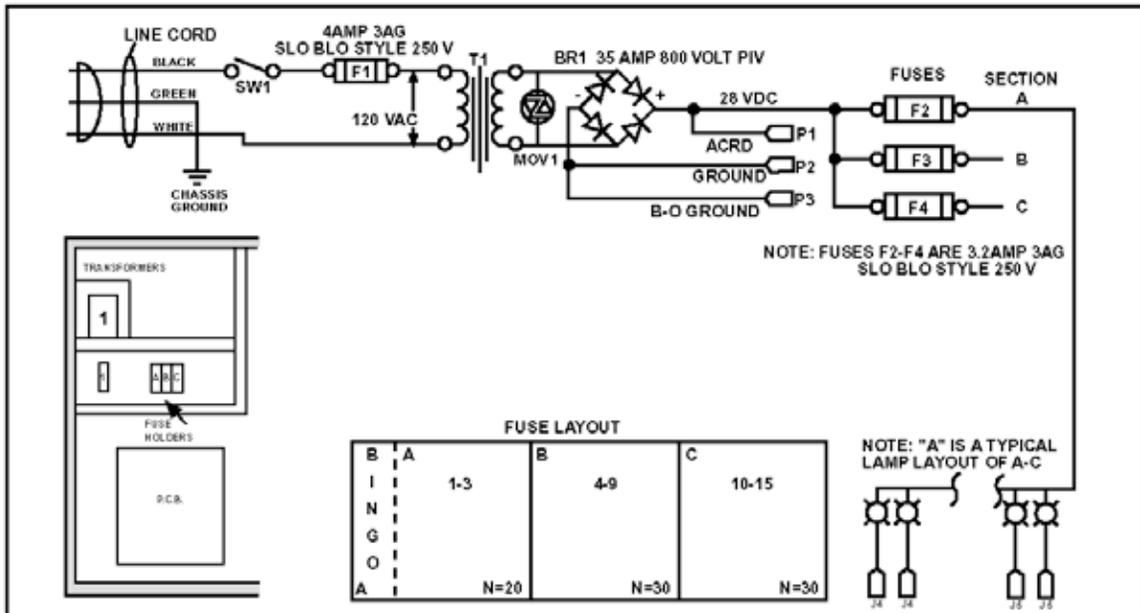


CLOSE = OFF

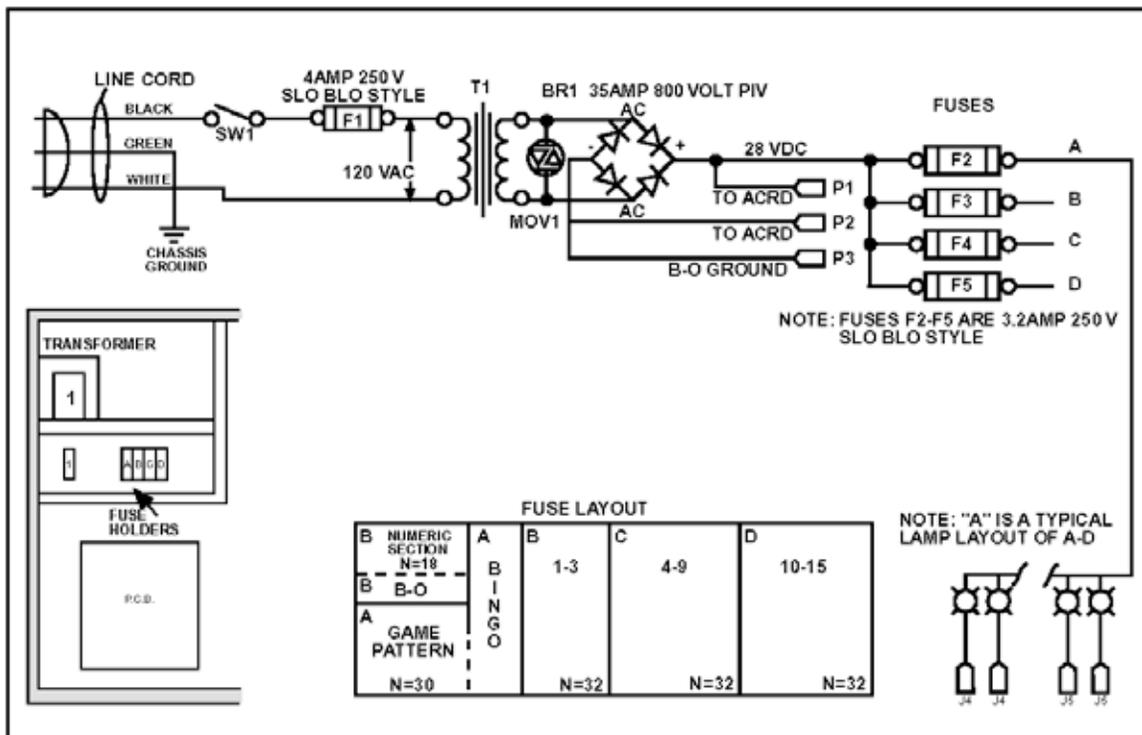
POWER OFF WHEN RESETTING ANY SWITCH ON SW1

4 Inch Flashboard Wiring Diagrams

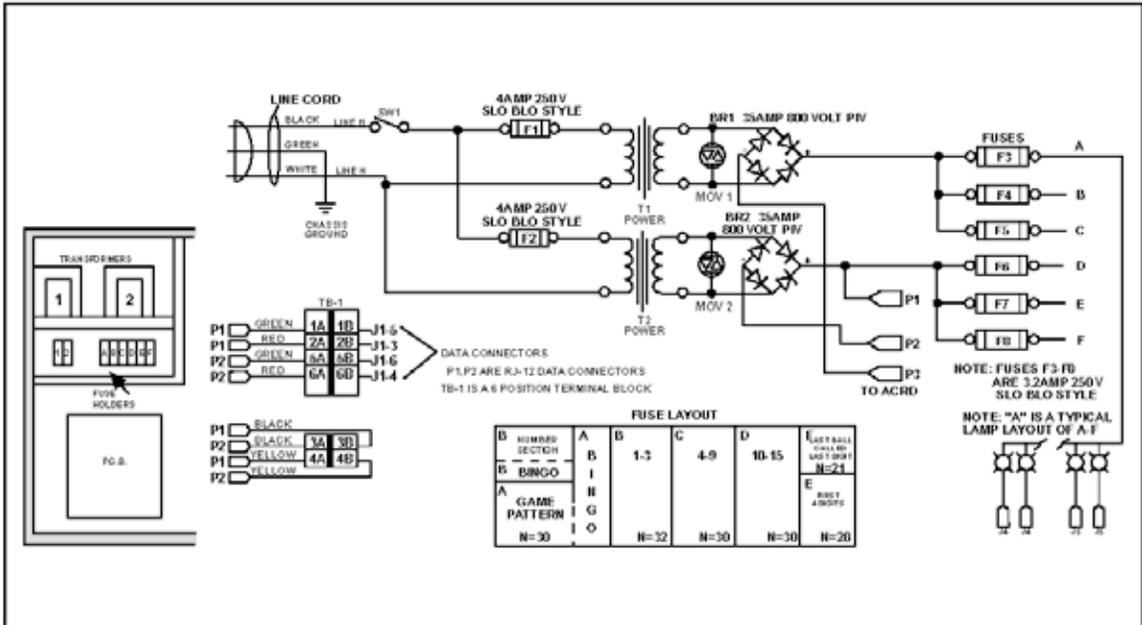
4" Numbers Only



4" Game Indicator

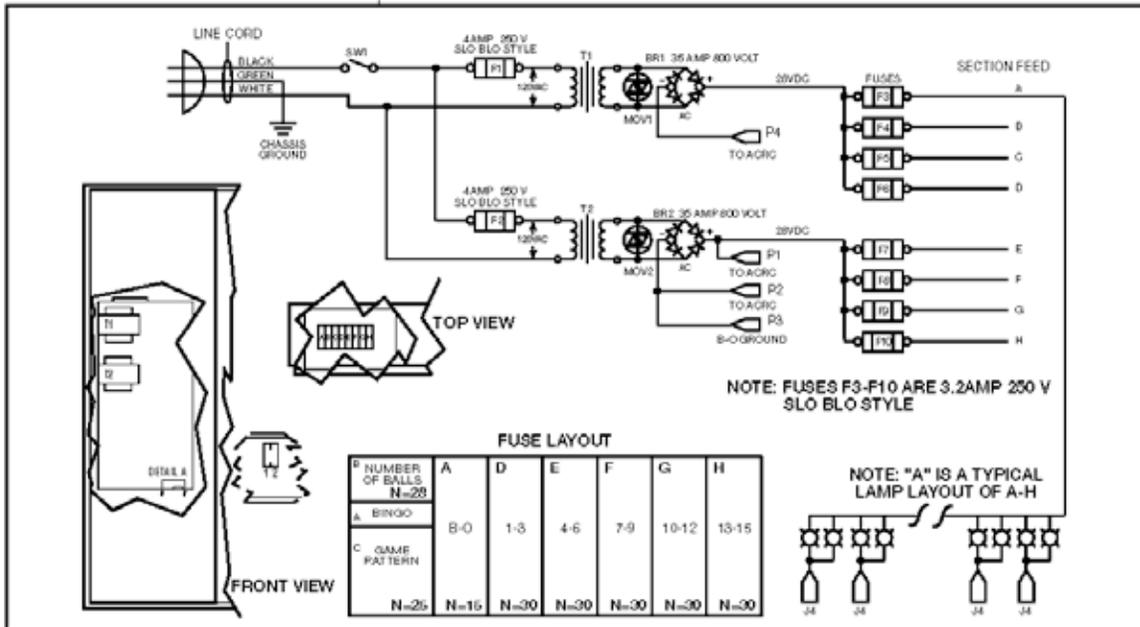


4" Dollar Value

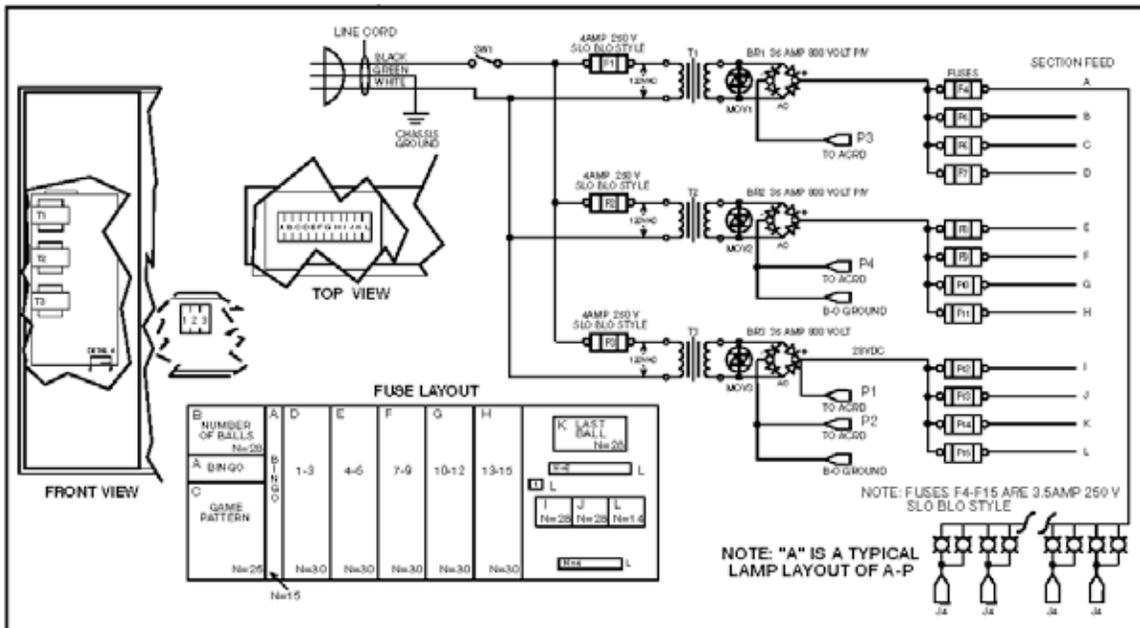


8 Inch Flashboard Wiring Diagrams

8" Game Indicator



8" Dollar Value



Warranty

Bingo King® Bingo Standard Limited Warranty

Set out below are the terms of the Standard Limited Warranty (“Limited Warranty”) made by Bingo King Co. (“Bingo King”) in connection with the sale of the Bingo King equipment (the “Equipment”).

1. Limited Warranty

Subject to the limitations in the next paragraph, Bingo King warrants to the original purchaser (“Purchaser”) that the Equipment will, to the extent manufactured by Bingo King, be free from defects in material and workmanship for a period of ONE (1) YEAR from the date of shipment of the Equipment from Bingo King. Purchaser represents to Bingo King that no employee, agent, or representative of Bingo King (or a Bingo King dealer) has made any representation or warranty regarding the Equipment except as set out herein.

This Limited Warranty applies to normal commercial use and does not cover failure or damage which (a) occurs in shipment; (b) is caused by products not supplied by Bingo King; or (c) results from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, set-up adjustments or modifications. This Limited Warranty also does not cover any damage resulting from failure to install the Equipment in strict conformity with local fire and building codes and regulations, or if the installation does not comply with the installation instructions provided by Bingo King. Products which are manufactured by a third-party vendor and offered with the Equipment (such as monitors, keyboards, cameras, and other peripheral products) are not covered by this Limited Warranty. Purchaser needs to consult the third-party manufacturer’s warranty for warranty claims related thereto. Bingo King will supply a copy of any third-party vendor’s warranty upon written request.

2. Disclaimer of Warranties

BINGO KING MAKES NO WARRANTIES, EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR AGAINST INFRINGEMENT OF ANY PATENT), EXCEPT AS EXPRESSLY PROVIDED HEREIN. THE EXPRESS WARRANTIES PROVIDED HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, GUARANTEES OR REPRESENTATIONS, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW OR OTHERWISE.

3. Limitation of Remedies

If the Equipment does not conform to the Limited Warranty set out above, Bingo King will, at its option, (a) repair or replace the Equipment, or part thereof, which is defective, or (b) refund so much of the purchase price as Purchaser has paid for the defective Equipment, less 1/12th of the purchase price for each month between the date of the purchase from an authorized Bingo King dealer and the date of the discovery of the defect, provided that written notice of the defect and its nature is given to Bingo King as soon as practical after discovery of the defect, but in no event later than 90 days from the date of the discovery of the defect. All part repairs are through the Bingo King Cleveland Depot.

4. Limitation of Liability

The remedy of repair, replacement, or refund of the purchase price is Purchaser’s sole and exclusive remedy and will satisfy all of Bingo King’s liabilities, whether based on contract, negligence, tort, product liability, strict liability or otherwise. IN NO EVENT WILL BINGO KING BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, NOR WILL ITS LIABILITY IN CONNECTION WITH ANY EQUIPMENT OR SERVICE SOLD (INCLUDING NONDELIVERY OR LATE DELIVERY THEREOF) EXCEED THE SALE PRICE OF SUCH EQUIPMENT.

5. Warranty Voided

Any obligations of Bingo King under this Limited Warranty will be deemed to have been satisfied if anyone other than an authorized Bingo King Equipment Dealer services the Equipment.

6. Transfer of Limited Warranty

Purchaser may transfer its rights under this Limited Warranty, subject to the terms and conditions hereof, to a buyer ("Buyer") from Purchaser of the Equipment. Thereafter, the rights under this Limited Warranty are not transferable.

For the transfer by Purchaser of the Limited Warranty to be effective, the following conditions must have occurred no later than the 30th day following the date of resale to Buyer:

- A. Purchaser must have complied with all requirements to make the Limited Warranty effective as to Purchaser; and
- B. The Equipment (as an entire unit and as purchased by Purchaser) must be transferred to Buyer.

Upon an effective transfer of this Limited Warranty, Buyer will be considered to be "Purchaser" for paragraphs 1, 4 and 8 hereof.

7. Inspection

With respect to any claim that the Equipment is defective, Bingo King will be allowed a reasonable time to inspect the Equipment, in place. If the Equipment is altered or removed before Bingo King has made such inspection or waived its right to do so, the obligations of Bingo King under this Limited Warranty will be deemed to have been satisfied.

8. Proof of Purchase

Notwithstanding anything to the contrary in this Limited Warranty, Purchaser must, upon Bingo King's request, submit proof of original purchase (satisfactory to Bingo King) of the Equipment. The Limited Warranty set out above shall not apply to, nor cover, any Equipment for which Purchaser is unable, upon Bingo King's request, to supply such proof of purchase.

9. Telephone Support

Telephone support is available to Purchaser on Mondays through Fridays (including holidays) from 8:00 a.m. until 12:00 a.m. (Eastern Standard Time). The telephone number is (866) 405-3482.

10. Preventative Maintenance; Emergency Service

Purchaser is entitled to request Bingo King to perform, through an authorized Bingo King distributor, one (1) preventative maintenance servicing on the Equipment. The preventative maintenance servicing shall be done in accordance with Bingo King's standard Preventative Maintenance program. Service performed by Bingo King or an Bingo King authorized distributor, which is not covered under its standard Preventative Maintenance program, will be billed to Purchaser.

11. Limitation of Actions

Any legal action against Bingo King for a default of its obligations under this Limited Warranty must be commenced within two (2) years from the date the Equipment was sold by an authorized dealer of the Equipment.



12. How to Obtain Service

If a problem with this Equipment develops during or after the warranty period, proceed as follows:

- A. Refer to your Operator's Manual.
- B. Contact the authorized Bingo King Equipment Distributor from whom you purchased the Equipment.
- C. Contact the Bingo King telephone support number listed above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY BINGO KING IN ITS SOLE DISCRETION ARE NOT COVERED. THE COST OF SUCH SERVICE CALLS IS THE RESPONSIBILITY OF THE PURCHASER.

Bingo King wants you to remain a satisfied customer. If a problem occurs that cannot be resolved to your satisfaction, please contact us immediately, phone one of the numbers listed above or write to:

Bingo King Co.
c/o National Service Manager
2807 Lincoln Way
Lynnwood, WA 98087

Please be sure to include the name, model number, serial number, date of original purchase, and the distributor from whom you purchased the Equipment, as well as any actions taken to correct the problem.



PART # BKFBV1-MNL



Bingo King Co. • 2807 Lincoln Way • Lynnwood, WA 98087 • 425.745.3700