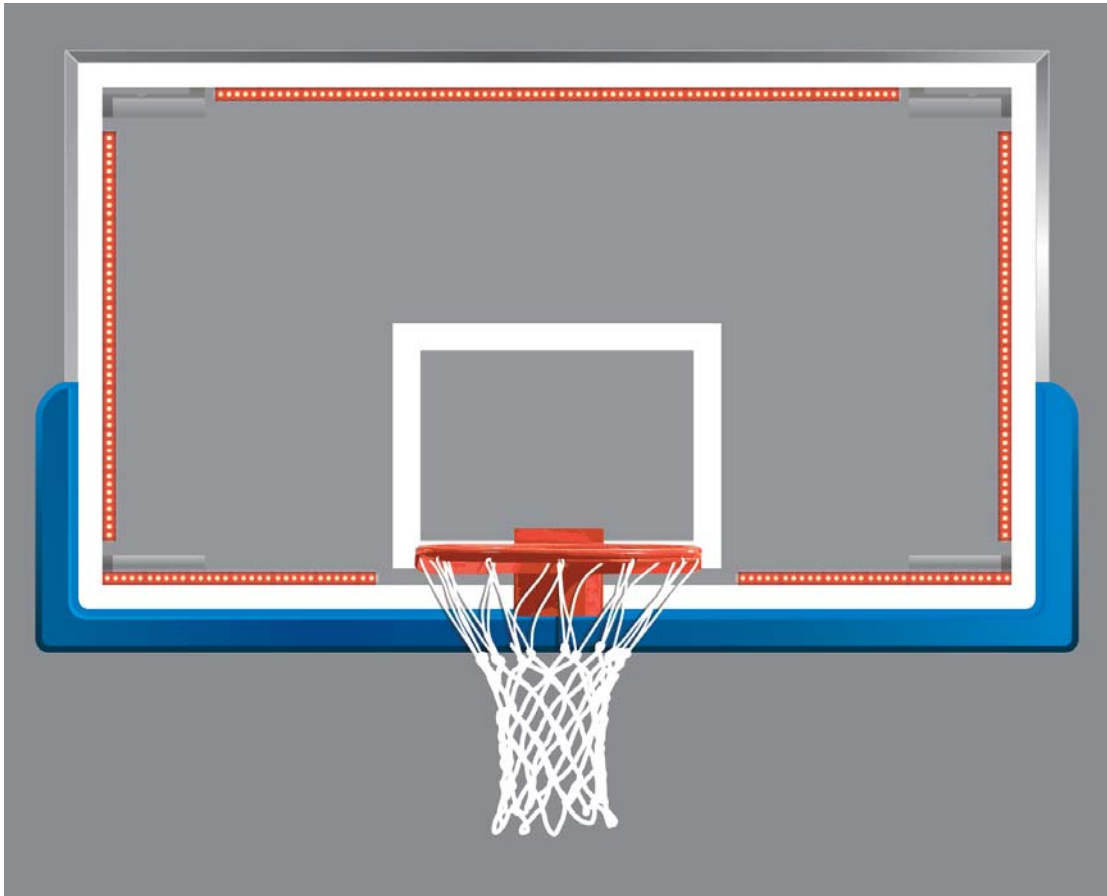




**BISON MODEL "BALED" CORRECT CALL™ UNIVERSAL
LED BACKBOARD ALERT SYTEM
INSTALLATION INSTRUCTIONS**



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Phone: 800-247-7668 Fax: 800-638-0698**

SPECIFICATIONS

GENERAL: Bison Model BALED includes 6 backboard LED strips with 15" trimmable wire extensions on each end, a transformer with enclosure assembly (transformer may not be needed for your application), wire cutter/crimper, wire connectors and 50' of cable.

DIMENSIONS: TOP LED STRIPS: 2 each 25" length; **SIDE LED STRIPS:** 2 each 32" length; **BOTTOM LED STRIPS:** 2 each 20" length.

TOTAL LED ARRAY WEIGHT: 5 lbs.

CONSTRUCTION: Correct Call™ consists of 6 separate strips. Each segment consists of a number of printed circuit board assemblies mounted on a formed aluminum bracket. The brackets are attached to the backboard with very high bond foam tape. The transformer is mounted in a NEMA 4X enclosure (transformer may not be needed for your application).

DISPLAY: The backboard LED array illuminates when the basketball scoreboard game clock reaches 0 seconds. It will also illuminate when the scoreboard's control console HORN key is pressed.

SEGMENTS: Precision optical performance red oval light emitting diodes (LED) mounted on printed circuit boards form the segments. Each printed circuit board assembly includes nine high intensity light emitting diodes. The light emitting diodes are spaced 0.6" apart.

COMPATIBILITY: This universal kit will mount on almost any 42" x 72" or 48" x 72" glass backboard. Exact positioning of the LED strips will depend on backboard size, style and manufacturer. A transformer with enclosure is provided with every system and may or may not be needed depending on scoreboard and shot clock systems being interfaced with.

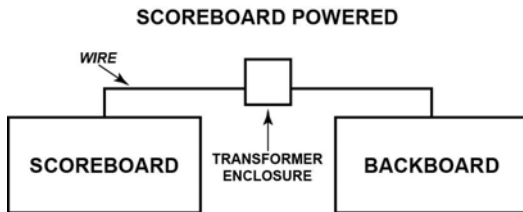
POWER REQUIREMENTS:

BACKBOARD LIGHT ASSEMBLY: 18.9 VDC, 7.7A DC each. The backboard LED array is powered by a compatible scoreboard shot timer.

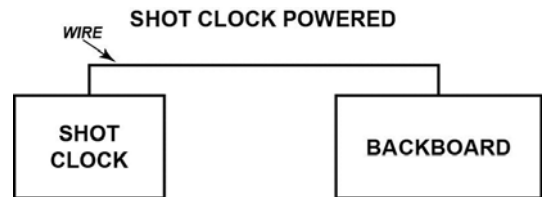
TRANSFORMER ENCLOSURE ASSEMBLY: 120 VAC stepped down to 15 VAC, .75A each at 120 VAC, 6.0A each at 15 VAC, 60 Hz. The backboard LED array is powered by a compatible basketball scoreboard signal.

WARRANTY: Five year limited warranty.

Correct Call™ can be powered by a dedicated output either on any basketball scoreboard or a shot clock with a CPC plug. If they are powered by a basketball scoreboard, a transformer enclosure is required between the scoreboard and the backboard lights assembly. If they are powered by a shot clock with a CPC plug, the shot clock is connected directly to the backboard lights assembly. For both installations, the backboard LED Strips are installed the same.



Scoreboard Powered
Figure 1A



Shot Clock Powered
Figure 1B

Power System Comparison

Correct Call™ INSTALLATION INSTRUCTIONS

First determine which configuration you are installing.

If you have a shot clock with a CPC connector (see Fig. 2), then follow the instructions for "Shot Clock Powered LED Light Strips".

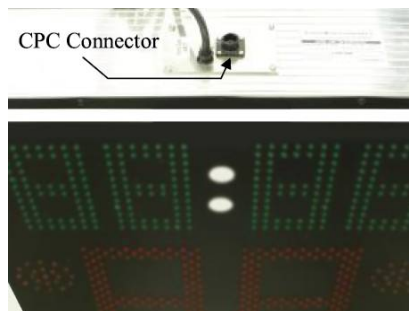


Fig 2

2180 CPC Possible Location on Shot Clock

If you have any other configurations, follow the instructions for "Scoreboard Powered LED Light Strips".

For both types, the LED Light Strips will be installed the same way as follows.



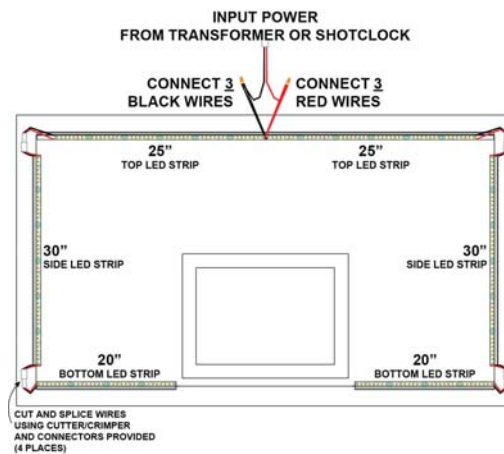
Sample Light Strip

INSTALLATION Correct Call™ LED LIGHT STRIPS

CAUTION: PRIOR TO ATTACHING THE LED LIGHT STRIPS TO THE REAR OF THE BACKBOARD, TEMPORARILY WIRE ONE STRIP AS INDICATED LATER IN THIS INSTRUCTION TO MAKE SURE YOU BACKBOARD/SHOT CLOCK SYSTEM IS COMPATIBLE WITH CORRECT CALL™. NOTE!! ONCE LED STRIPS ARE ATTACHED TO THE BACKBOARD, THEY ARE NOT RETURNABLE FOR CREDIT AS THEY WILL BE DAMAGED DURING REMOVAL.

1. Separate the 20", 25" and 30" light strips and determine exact position of each on your specific backboards. The foam adhesive tape is intended to be hidden behind the white screened outer backboard border in most areas.
2. See Figure 3 to help determine position of each light strip.
3. When installed, the LED strips are intended to be centered in the space available on each backboard. The wires on each end of the LED strips are long enough to allow multiple applications and should be trimmed to the shortest possible length to result in a neat installation with minimal visual interference. Cut and connect wires only after installation of LED light strips to the rear of the backboard.
4. Peel the liner from the high bond foam adhesive tape and carefully position the LED strips on the rear of the backboard. Take special care as once the LED strips are attached to the backboard, it is very difficult, if not impossible, to remove them without damage to the LED light strips.
5. When all LED light strips are attached correctly to the backboard, proceed to wire the strips according to the instructions on following pages.

LED BACKBOARD LIGHT STRIPS INSTALLATION



**Fig. 3
Front view of LED Light Strip Locations
(Looking through goal side of backboard)**

SHOT CLOCK POWERED LED LIGHT STRIPS

1. Plug one side of supplied CPC cable into shot clock.
2. Route cable from shot clock to the wires on the top LED strips as shown.
3. Using the wire connectors, connect the wires of this cable to the LED backboard light strips as shown in Fig. 3.
4. Installation complete.

SCOREBOARD POWERED LED LIGHT STRIPS

1. Mount the transformer enclosure assembly within 25 ft. of the backboard.
2. Open the transformer enclosure assembly door (see Fig. 4).

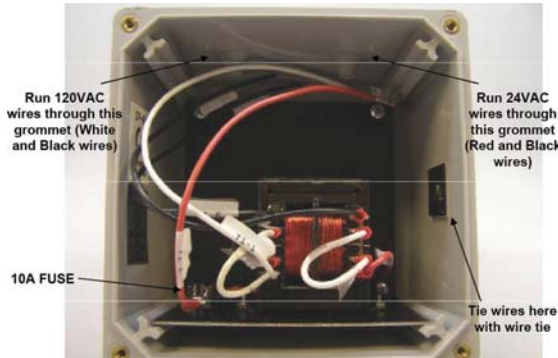


Fig. 4
Transformer Enclosure Assembly

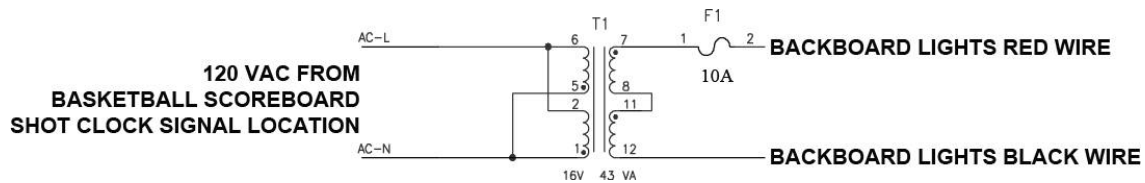


Fig. 5
Transformer Wiring Diagram

3. Cut a length of the supplied cable to connect the transformer enclosure assembly to a location on the scoreboard that is intended to send a signal to a shot clock. This will vary depending on your backboard.
4. Run the cable between the transformer enclosure assembly and the scoreboard.
5. At the transformer end, insert the cable in one of the holes in the transformer enclosure assembly (see Fig. 4).
6. Use a wire nut to connect the black wire from inside the transformer enclosure assembly (labeled AC-L) to either wire in the cable (see Schematic Fig. 5).
7. Use a wire nut to connect the white wire from inside the transformer enclosure assembly (labeled AC-N) to other wire in the cable (see Schematic Fig. 5).
8. Cut a length of the supplied cable to connect from inside the transformer enclosure assembly to the TOP LED Light Strip on the backboard.
9. Install the cable between the transformer enclosure assembly and the backboard 110 volt connection point.
10. Insert the cable in one of the holes in the transformer enclosure assembly.
11. Use a wire nut to connect the red wire from inside the transformer enclosure assembly (labeled BACKBOARD LIGHTS RED WIRE) to either wire in the cable (see Schematic in Fig. 5).
12. Use a wire nut to connect the black wire from inside the transformer enclosure assembly (labeled BACKBOARD LIGHTS BLACK WIRE) to other wire in the cable (see Schematic in Fig. 5).
13. Fasten both cables to the black cable tie mounts inside the enclosure assembly using a plastic tie wrap.
14. Close the transformer enclosure assembly door.
15. At the TOP LED light strip on the backboard, connect the wires of the cable to the LED backboard light strips as shown in Fig. 2.
16. Connect the wires of the cable to the 110 volt connector point on the backboard.

BISON CORRECT CALL™ LED BACKBOARD ALERT SYSTEM FIVE YEAR LIMITED WARRANTY

THE ELECTRICAL COMPONENTS ARE GUARANTEED FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF INVOICE AGAINST DEFECTS IN WORKMANSHIP OR MATERIAL AND WILL BE REPLACED OR REPAIRED WITHOUT COST TO THE OWNER PROVIDED THE EQUIPMENT OR PARTS ARE RETURNED POSTAGE-PAID TO BISON. REPLACEMENT PARTS WILL BE SHIPPED BY FEDERAL EXPRESS GROUND SERVICE EXCEPT WHEN AIR OR SPECIAL METHOD OF RETURN IS SPECIFIED BY THE OWNER, IN WHICH CASE SHIPPING WILL BE FREIGHT COLLECT.

EXCLUDED FROM THIS WARRANTY ARE FUSES.

THIS WARRANTY DOES NOT INCLUDE LABOR CHARGES INCURRED IN THE REMOVAL OF COMPONENT PARTS, SERVICE CALLS, OR DAMAGES RESULTING FROM IMPROPER INSTALLATION, IMPROPER OPERATION, OR PROBLEMS CAUSED BY ANY REPAIR, ALTERATION OR MODIFICATION.

EQUIPMENT WHICH IS SUBJECTED TO ACCIDENT, NEGLIGENCE, ABUSE, MISUSE OR OTHER NATURAL DISASTERS, INCLUDING BUT NOT LIMITED TO FIRE, WIND, LIGHTNING OR FLOOD, IS NOT COVERED BY THIS WARRANTY.