

ALL AMERICAN

SCOREBOARDS™



Everbrite

Site Installation | Model MP-8341LSTN

Rev. 1/30/12

SCOREBOARD SITE INSTALLATION INSTRUCTIONS

CAUTION: All American Scoreboards (AAS) recommends the sign be installed by a licensed contractor, and must meet all local and national building codes.

NOTE: AAS RECOMMENDS USING A BOOM/FORKLIFT/CRANE OF SUITABLE SIZE TO USE IN INSTALLATION.

Unpacking/Pre-Installation

Dependent on the Model ordered, the All American Scoreboard unit comes crated with different items attached and/or unattached and with different installation hardware.

! OPERATION OF THE UNIT WITH THE ELECTRICAL CIRCUITRY EXPOSED IS DANGEROUS. BE SURE ALL TOOLS AND ANY OTHER MATERIALS ARE REMOVED FROM THE UNIT, AND ALL ACCESS COVERS ARE REPLACED AND CLOSED BEFORE POWER IS TURNED ON.

NOTE: Take care uncrating as not to damage the units.

The shipment should include:

- Installation instructions (this document).
- Operator's Manual.
- LED Scoreboard Cabinet(s).
- Keypad Console.
- Scoreboard Antenna (Radio System only)
- Junction Box (Hard-wire only)
- Mounting Hardware (see parts list.)

NOTE: Upon receipt, check for visible damage. If damage is found at the time of delivery, consignee must obtain an 'Inspection of Bad Order' from the delivering carrier.

If damage is found after shipment has been accepted, visit www.AllAmericanScoreboards.com for the damage claim procedure or contact your sales rep.

- Installation Steps -

Prior to installation, set I-Beams in required concrete footing. Footing depth varies heavily by soil conditions, climate and environmental factors. Depth of footing must comply with local ordinances. I-Beams must be level.

Step 1: Scoreboards are installed from the bottom up and connected by pins. Measure from the top of the I-Beams to the appropriate length so the top of the scoreboard (or scoreboard + ad panels) will be flush with the top of the I-Beam.

Step 2: Screw Threaded Rods (Item 7) into the Spring Nuts (Item 8) and tighten using 1/2" Nut and Lock Washer (Items 9 and 10).

Step 3: Lift the large lower cabinet and center between 2 appropriate poles. **It is critical that the bottom panels are level to ensure upper panels and entire scoreboard are also level.**

Step 4: Install Spring Nuts with Threaded Rods by sliding in from the end or twist them CLOCKWISE into the mounting channels on the back of the scoreboard (the spring nuts have a rounded edges for twisting clockwise only), approximate position on each side of the I-beams (See Figure 2).

Step 5: After leveling and centering the lower panel, secure to I-beams using the supplied 12" strut (Item 4) and 1/2" Flat Washer, Lock Washer and Hex Nut (Figures 9,10,11), taking care not over tighten and strip or pull the spring nuts out, **50/60 FT/LB torque max** (See Figure 2, Detail A). The first lower panel should be secured using 4 12" strut channels. **Repeat steps 3-5 with the second lower cabinet. Use a sealant between the horizontal pass through.**

Step 6: Secure the right and left panels with the supplied Splice Connector. Connector will be stored in the strut channel near the inside edge of the cabinets. Loosen 4 bolts to slide channel over equal parts of each cabinet. When centered between the two edges, tighten bolts securely. Repeat on other channel connection.

Step 7: Lower upper large cabinet a few inches over the bottom cabinet. Remove adhesive from the upper cabinet and carefully route cables through both holes of the upper cabinet and down through each of the lower cabinets through the cable channels, ensuring to not stress the cables.

Step 8: Lower upper cabinet onto pins and cable channel of the bottom cabinet. Use the same strut mounting procedure (see Figure 2) as the lower panel. Upper panels are secured by using 4 12" strut channels.

Step 9: Repeat Steps 7 & 8 with the remaining cabinet. Secure each cabinet first with 2 12" Unistrut Channels and then with The supplied Splice Connectors using the same procedure as Step 6. After all panels are mounted, go to Step 10 if an Ad Panel will be used. If no Ad Panels will be installed, skip to Step 11.

Step 10: If using an Advertiser Panel, using a 9/16" drill, drill through the I-Beam to install the Mounting Angle (Item 5) on to the outside top of the I-Beam (see Figure 1). Attach a two piece Advertiser Panel using a 3/16" bar on top with 4-3/8" bolts, nuts and washers and the sides with 2-3/8" bolts, nuts and washers.



Step 11: Remove the face exposing the controller assembly of the scoreboard unit (located on the upper face between Innings and Runs) by unscrewing the PH screws, top and sides, lift and remove the face and set aside for reinstallation. Connect cables from the upper panels to the Controller Plate Assembly according to the connector labels on the harness, (see Back Page), be sure to use a drip loop and keep a 1/2" space from the bottom of the unit. Connectors will be labeled appropriately. There will be an adhesive sheet mounted inside the scoreboard or inside controller assembly cover with detailed information on wiring.

Step 12: Connect all connections from the top "Ball Strike Out" section to the "MPH" Section and the "MPH" section to the lower large cabinet. Connectors will be labeled.

Step 13: HARD-WIRE ONLY. Install the Junction Box at chosen location (i.e. press box or dug-out) and hook-up Power/Data Cable to terminal block.

Step 14: Attach the grounding wire to ground.

Step 15: Install the cable conduit and the power cut of switch box (recommended) onto the beam and run the power through the conduit to the sign.

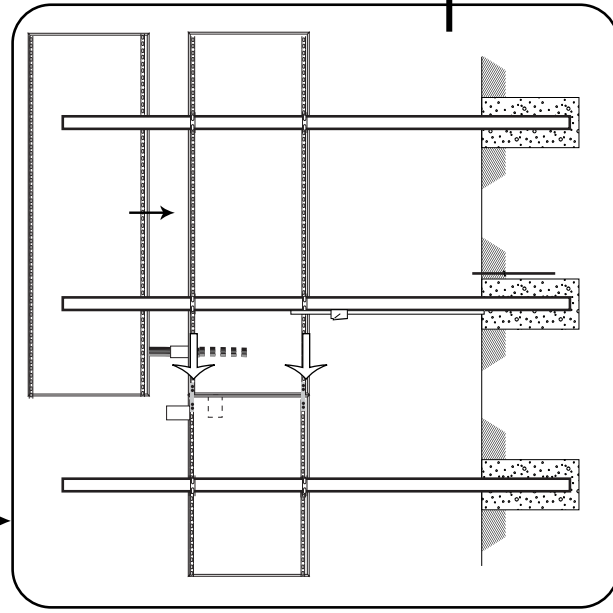
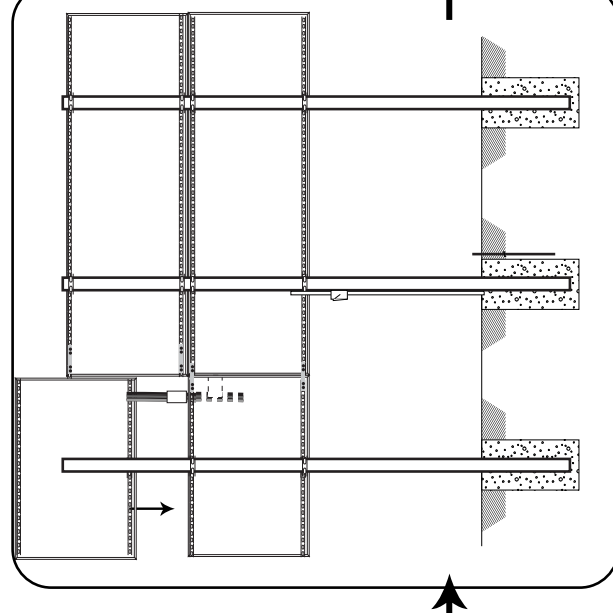
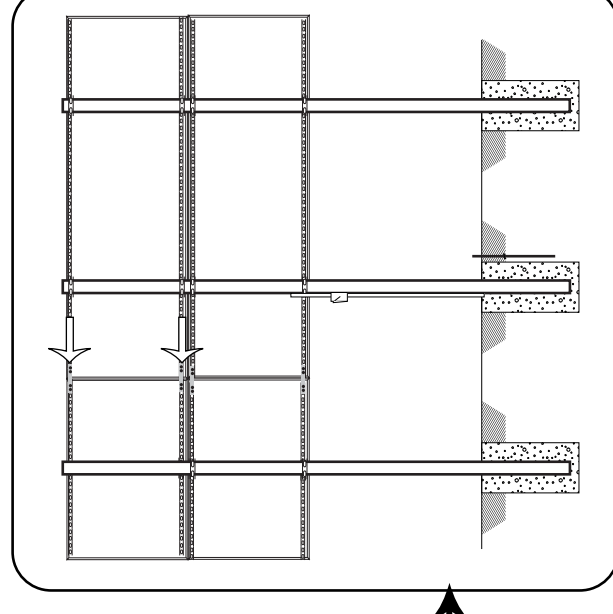
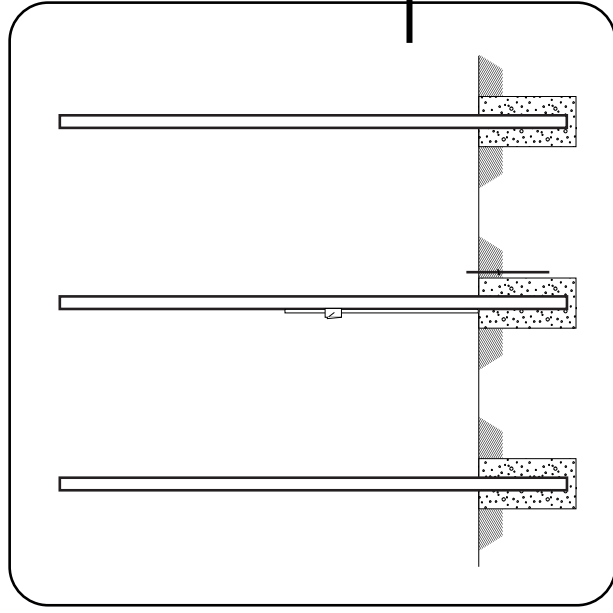
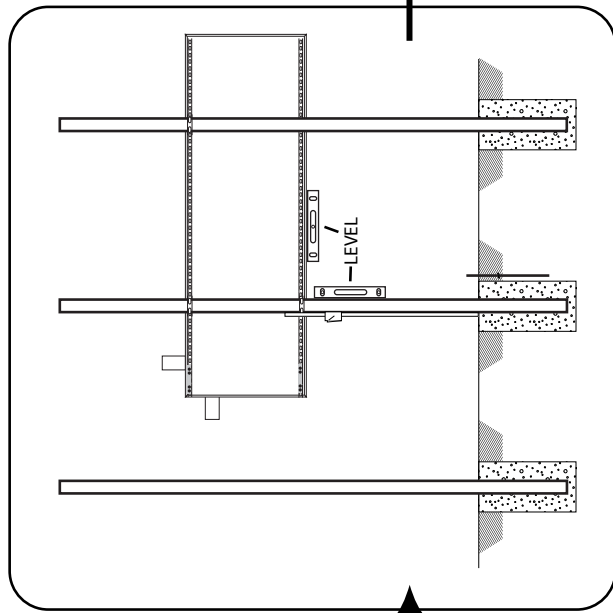
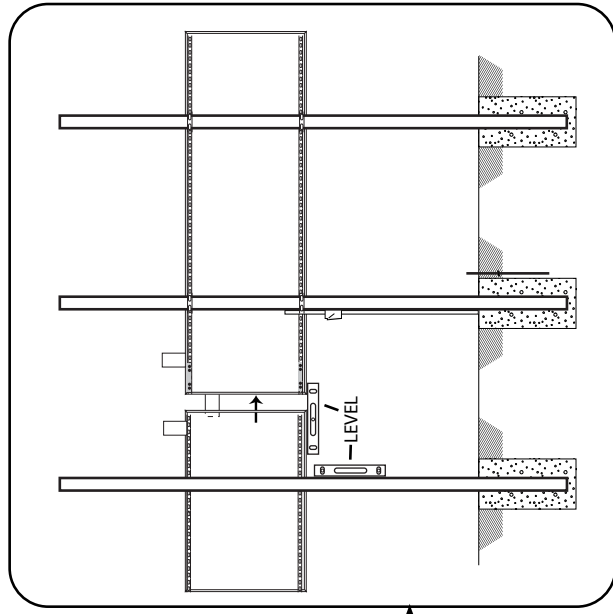
Step 16: HARD-WIRE ONLY. Install the cable conduit onto the beam and run the data cable from the junction box through the conduit to the data box on the back of the scoreboard. Attach the data cable - Pin 5 on console (and scorer's booth junction box) will connect to the Blue and White wire, Pin 4 will connect to the Blue Wire.

Step 17: RADIO ONLY. Remove the RED button cover from the antenna mount located on the face of the board and screw on the extra antenna.

Step 18: Attach the Board power line to the terminal block in the power supply assembly; Black to Line, White to Neutral, Green to Ground. Reinstall cover.

Step 19: Reinstall board face into cabinet frame.

Step 20: Power up scoreboard and run set-up as described in Operator's Manual.



Typical Baseball Multi-Panel Scoreboard Installation Illustration

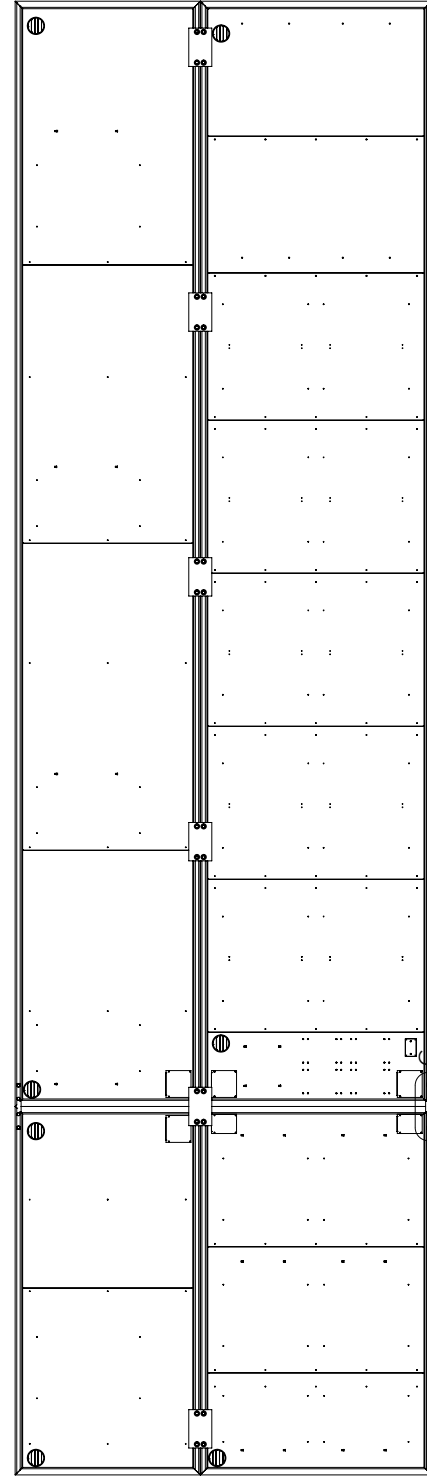
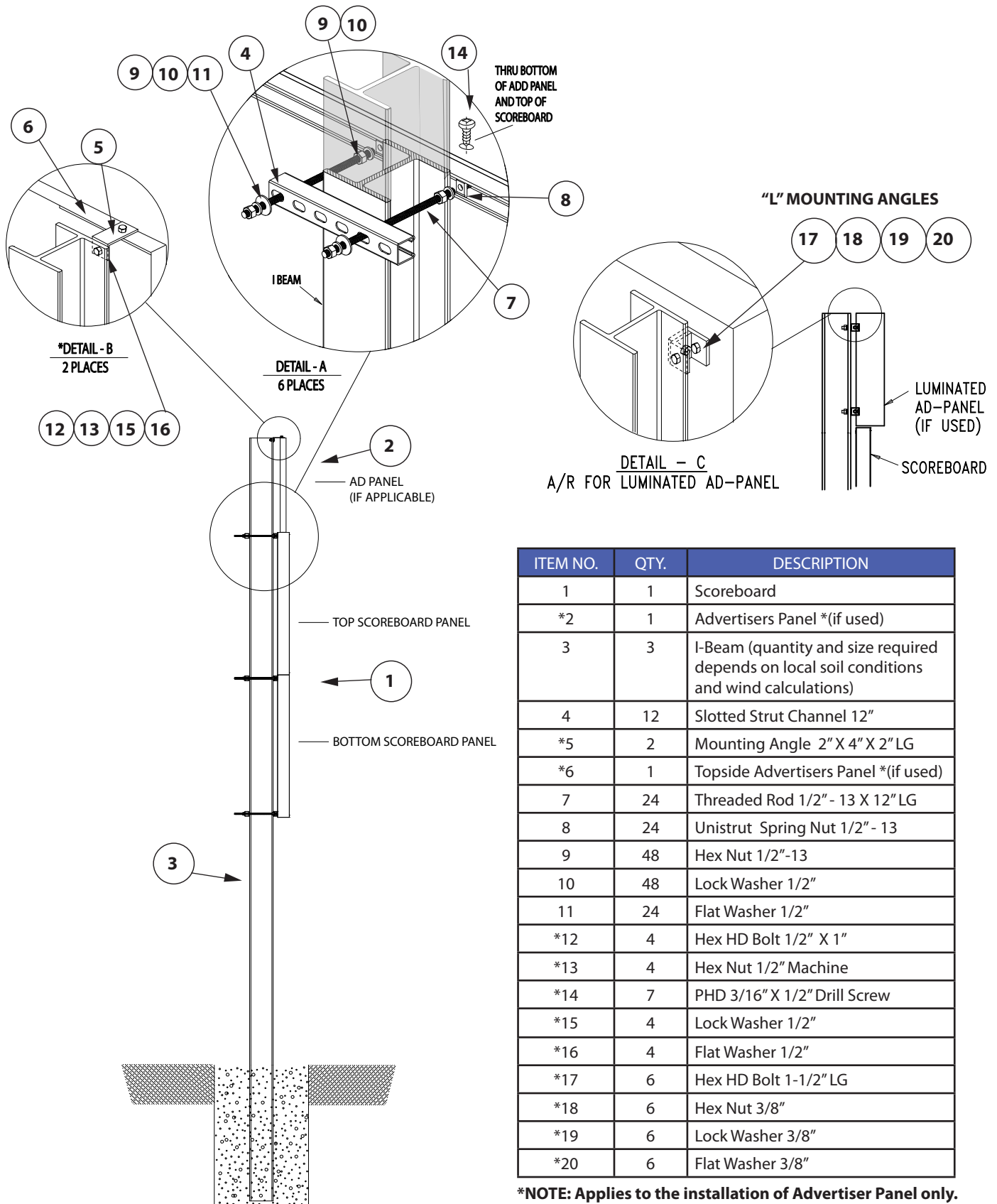


Figure 2: Mounting and Ad Panel Detail.

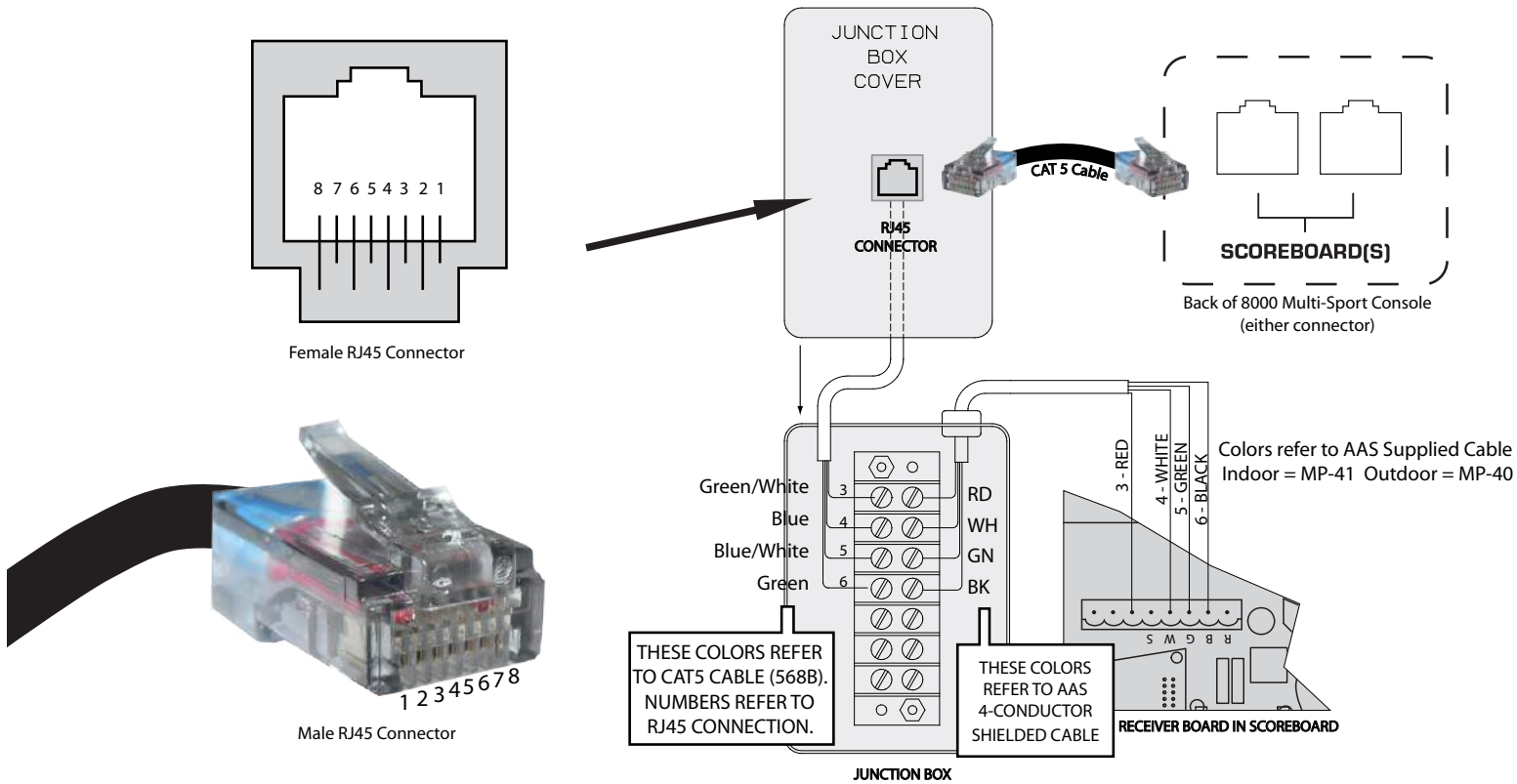


***NOTE: Applies to the installation of Advertiser Panel only.**

NOTE: Foundation shown for illustration only. Actual foundation needs to meet national and local building codes.

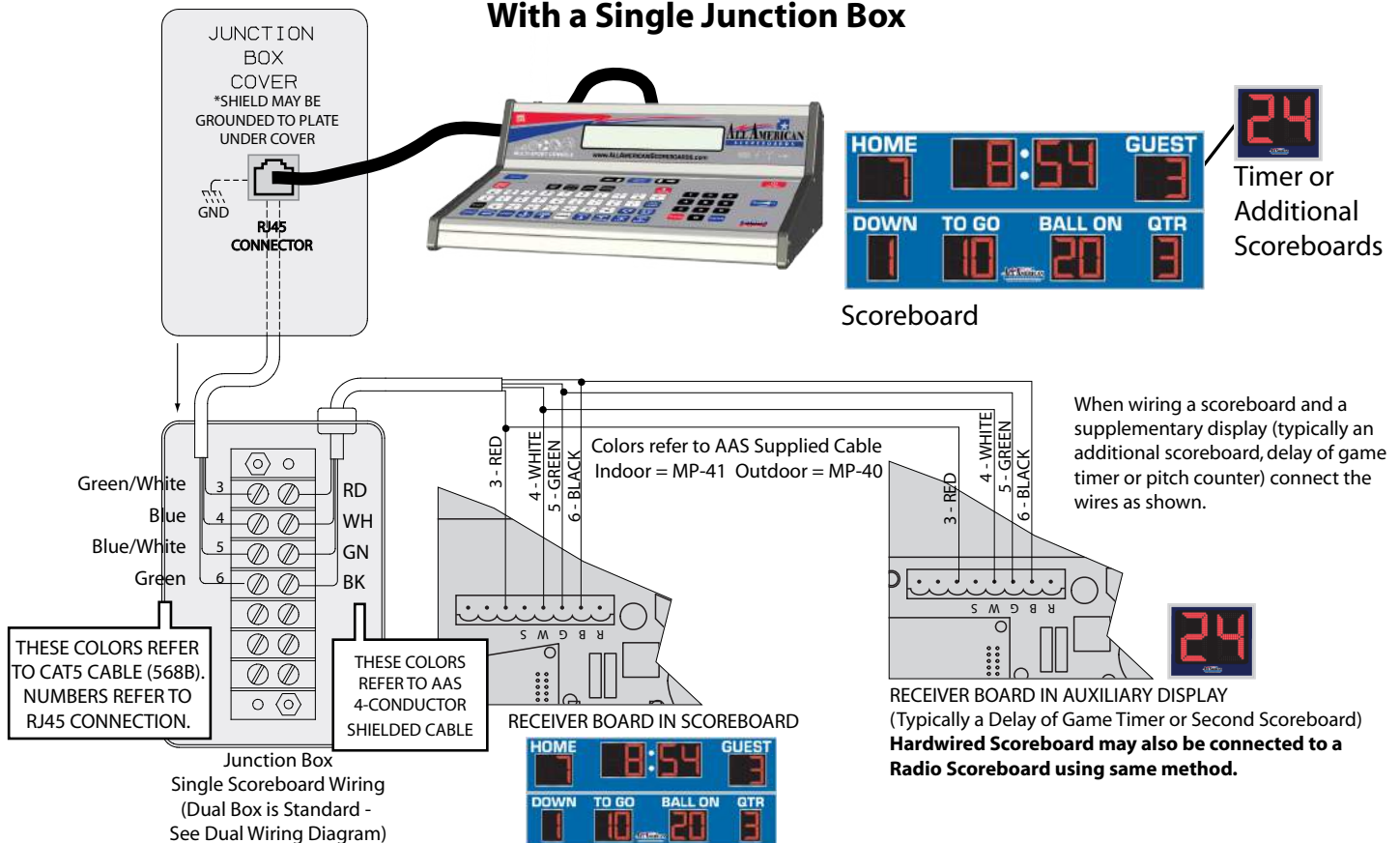
Hardwire Scoreboard Wiring

With a Standard Junction Box



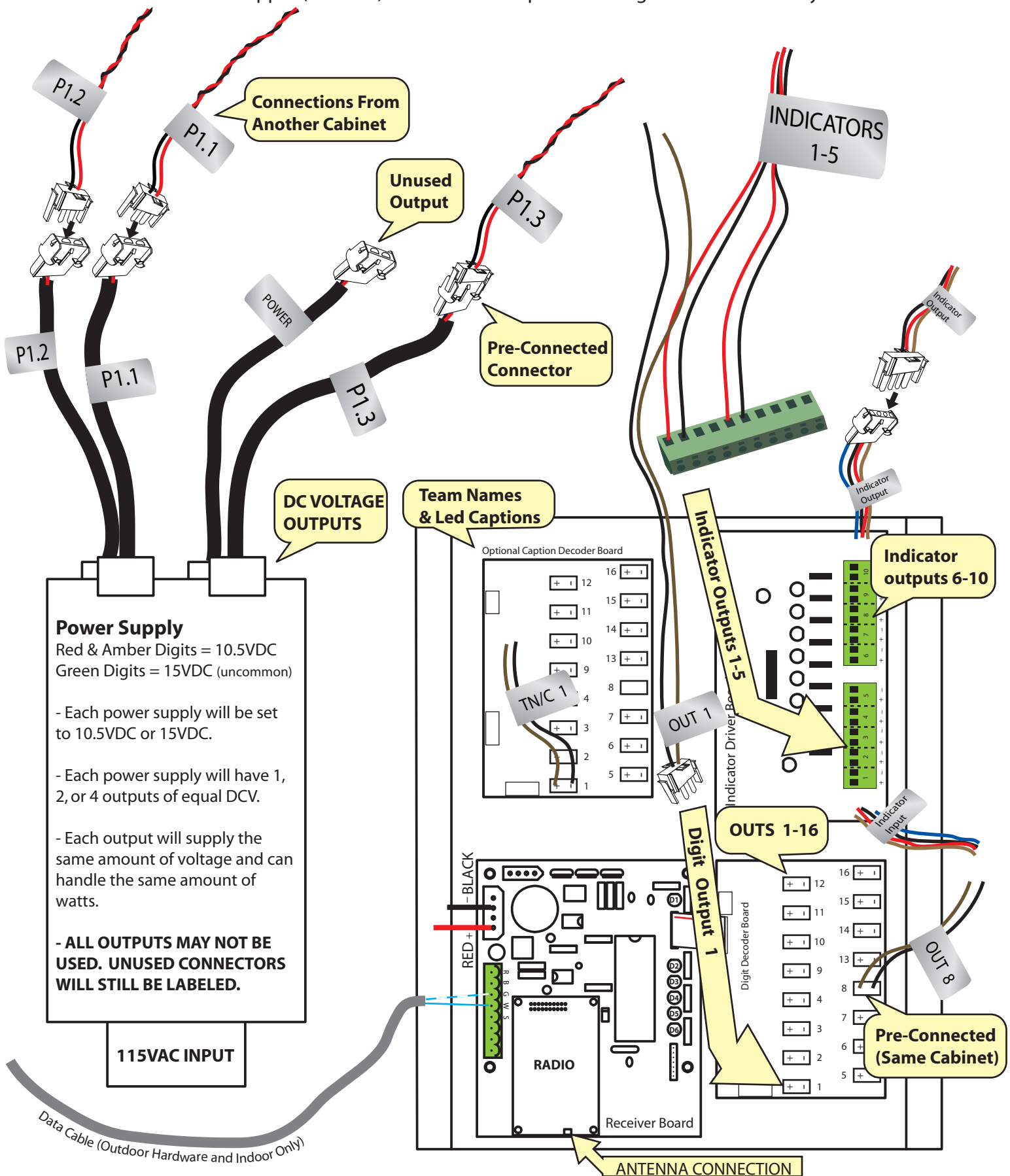
Wiring a Supplemental Display

With a Single Junction Box



General illustration of cables coming from different cabinet (2+ Cabinets Only)

Cables from upper (or other) cabinets will be pulled through the cable raceway tubes.



Sample connections - connections and hardware will vary depending on specific scoreboard.

Cables from same cabinet will be connected. All Connections will be labeled.

Large boards may have jumper cables - controller board may not need to be opened.

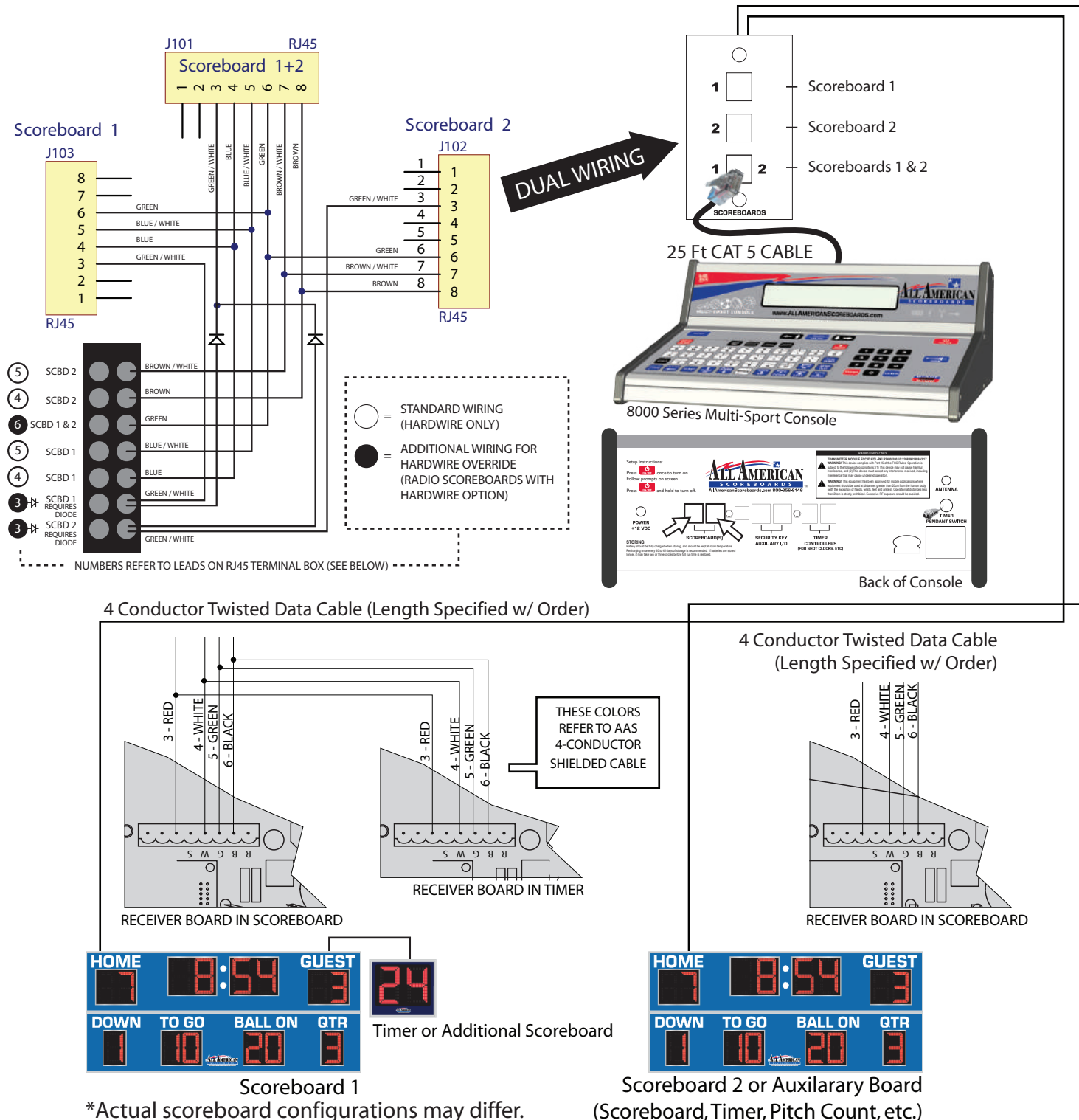
Hard Wire Setup / Hardwire Override Capable

Using a Dual Capable Junction Box

All radio scoreboards have the ability to be used as a hardwire. When installed properly, the radio on the scoreboard will turn off when a console is plugged into the hardwire input. **Unless proper wiring (Leads 3 & 6) is run to the RJ45 Terminal Box and Junction Box, the radio will need to be removed from the scoreboard to connect via hard wire. To avoid this situation, two additional wires are required to allow the hardwire data to override the radio signal (Leads 3 & 6).**

The 8000 Series Console can plug directly into the scoreboard via a standard CAT5 cable and RJ45 connections. All American Scoreboards recommends using a junction box (either a standard single or a dual capable). Type of junction box and cable lengths will be determined at point of sale.

Outdoor boards will require a water tight junction box. Data connections will be directly connected to the receiver board in scoreboard. Data connection and AC power cannot run in same conduit.



OUTPUTS

- Home Team (top)
- Home Team (bottom)
- Guest Team (top)
- Guest Team (bottom)

Data: Brown (+)

NOT USED
5-16

Hardware DATA

- Green (6*) BK
- Blue/White (5*) GN
- Blue (4*) W
- Green/White (3*) R

*Numbers and colors correspond to RJ45 connector to shielded cable

These colors refer to as 4-conductor shielded cable

TEAM NAME DECODER BOARD
EL01032P

16	+
15	+
14	+
13	+
12	+
11	+
10	+
9	+
8	+
7	+
6	+
5	+
4	+
3	+
2	+
1	+

BK BR

to Horn relay

BLUE
YELLOW

Indicator Driver Board
EL01031P

1	+
2	+
3	+
4	+
5	+
6	+
7	+
8	+
9	+
10	+
11	+
12	+
13	+
14	+
15	+
16	+

Receiver Board
EL01067P

Radio

R B G W S

P1.1

RED +
- BLACK

Hardwire DATA

Green (6*) BK
Blue/White (5*) GN
Blue (4*) W
Green/White (3*) R

*Numbers and colors correspond to RJ45 connector to shielded cable

These colors refer to as 4-conductor shielded cable

OUTPUTS

- Home Team (top)
- Home Team (bottom)
- Guest Team (top)
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7	+
6	+
5	+
4	+
3	+
2	+
1	+

BK BR

to Horn relay

BLUE
YELLOW

Indicator Driver Board
EL01031P

1	+
2	+
3	+
4	+
5	+
6	+
7	+
8	+
9	+
10	+
11	+
12	+
13	+
14	+
15	+
16	+

Receiver Board
EL01067P

Radio

R B G W S

P1.1

RED +
- BLACK

Hardwire DATA

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Blue/White (5*) GN
Blue (4*) W
Green/White (3*) R

*Numbers and colors correspond to RJ45 connector to shielded cable

These colors refer to as 4-conductor shielded cable

OUTPUTS

- Home Team (top)
- Home Team (bottom)
- Guest Team (top)
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5-16

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8	+
7	+
6	+
5	+
4	+
3	+
2	+
1	+

BK BR

to Horn relay

BLUE
YELLOW

Indicator Driver Board
EL01031P

1	+
2	+
3	+
4	+
5	+
6	+
7	+
8	+
9	+
10	+
11	+
12	+
13	+
14	+
15	+
16	+

Receiver Board
EL01067P

Radio

R B G W S

P1.1

RED +
- BLACK

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Blue/White (5*) GN
Blue (4*) W
Green/White (3*) R

*Numbers and colors correspond to RJ45 connector to shielded cable

These colors refer to as 4-conductor shielded cable

OUTPUTS

- Home Team (top)
- Home Team (bottom)
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5-16

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12	+
11	+
10	+
9	+
8	+
7	+
6	+
5	+
4	+
3	+
2	+
1	+

BK BR

to Horn relay

BLUE
YELLOW

Indicator Driver Board
EL01031P

1	+
2	+
3	+
4	+
5	+
6	+
7	+
8	+
9	+
10	+
11	+
12	+
13	+
14	+
15	+
16	+

Receiver Board
EL01067P

Radio

R B G W S

P1.1

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- BLACK

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Blue/White (5*) GN
Blue (4*) W
Green/White (3*) R

*Numbers and colors correspond to RJ45 connector to shielded cable

These colors refer to as 4-conductor shielded cable

OUTPUTS

- Home Team (top)
- Home Team (bottom)

Requires Receiver Program 210E or greater.

