Mounting Instructions
Dart-Center *Cordless LED Dartboard Light*, Ceiling Mounted

Thank you very much for purchasing this one-of-a-kind product, created to enhance your darts experience!

You will need the following tools:

Tools for all surfaces: Tape Measure, Pencil, Drill, Phillips Screwdriver or power Driver Bit and 5/8" Wrench or Socket and Ratchet
Additional tools depending upon your ceiling material:
    ***Drywall (Sheetrock/gypsum board) and other lightweight materials* such as suspended ceilings:** ½" Drill Bit
    C*oncrete, plaster* and other similar hard materials: 1/4" Masonry Drill Bit and Hammer (rubber or metal)
    ***Wood* surfaces:** 1/8" Drill Bit

Contents/ Parts List & Mounting Diagram: (See opposite side of this sheet)

Mounting Steps

Step 1, Prepare to mount the ceiling bracket:
Note: Your dartboard and backboard or cabinet (both optional) should be "hung" before mounting your dartboard light.
1A Determine the mounting distance of the light from the dartboard ("D2".) This distance is based on the final mounted height of the light heads above the floor ("D1".) D1 is your ceiling height minus the overall light depth. See "Table 1" on the opposite side to find the overall light depth based on shaft length. Use "Table 2" and "D1" to determine "D2".
1B Using a pencil, make a mark on the ceiling "D2" inches from and at a 90 degree angle (perpendicular) to the front face of your dartboard. This mark should be aligned with the center of the dartboard; this will be the center of the light. Next draw a line across this mark extending about 2 inches on either side. Now make two more marks, one near each end of the line, each 1-3/4 inches from the midpoint. When complete, the two marks should be 3-1/2 inches apart. Note: the orientation of the line does not matter.
1C --*Drywall and other lightweight ceiling materials:* Drill one ½ inch hole at each of the endpoints. Drill slowly; if you notice wood shavings, stop immediately; use the following step for fastening in wood for this fastener location.
--*Concrete or plaster ceiling*: Using a ¼" masonry drill bit, drill one hole about 2-1/4 inches deep at each of the end points. Next, insert a plastic anchor into each hole; lightly hammer it into place until the flat head is flush with the ceiling
--*For wood ceilings:* Using a 1/8" drill bit, drill one hole about 2-1/4 inches deep at each of the end points

Step 2, Mount the ceiling bracket:
--*Drywall and other lightweight ceiling materials:* insert the two long screws into the slots of the bracket, one per slot; the heads should be on the same side as the protruding threaded rod. Next, thread on the toggles; the side with the writing should face away from the threaded end of the screw; thread the toggle just past the end of the screw. Now squeeze each toggle and insert into the ½" hole drilled in the previous step. Once through the hole and on the other side of the ceiling, the toggle will snap open. Tighten the toggles against the top side of the ceiling surface by pulling down lightly as the screw is tightened; continue until the bracket is tight against the ceiling. Before performing the final tightening, make sure the screws are as far apart as possible. Caution: be sure to only drive clockwise or the toggle will be lost inside the ceiling cavity.
--*For wood, concrete or plaster ceilings*: Using the shorter, sharp pointed screws, drive one screw through each slot of the bracket into the drilled holes or anchors.

Step 3, Assemble the light fixture:
   Note: A helper comes in very handy for this step since there are several pieces that need to be "stacked" together in sequence.
Use caution when handling the aluminum canopy; the edges may be sharp
3A Using your fingers, carefully remove the spotlights from their snap-on bases to ready the light arm for assembly onto the bracket
3B Assemble the following items in sequence onto the threaded rod: one washer, the aluminum canopy (5 inch diameter toward ceiling), one washer, the aluminum tube, light arm (with spotlight bases facing down), one washer and finally the aluminum cap nut.
3C Tighten the assembly until firm using a 5/8" wrench or socket and ratchet. Make sure the light arm is parallel with the wall on which the dartboard is mounted; this can be checked my measuring from the center of the dartboard to either end of the arm. Note: *Assure there is no wobble; if so, you may remove the first washer on the inside of the canopy. This should provide a tighter fit.*

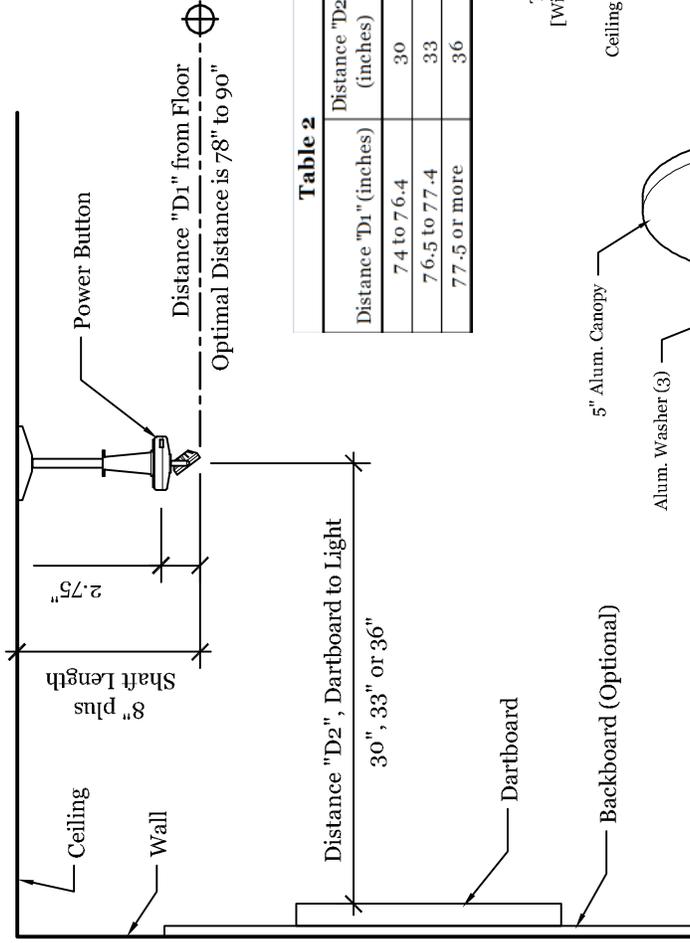**Step 4, Complete the installation:**
4A *Insert the batteries* into the spotlights then snap each spotlight back onto its base on the light arm. For your convenience, the power buttons should be facing away from the dartboard.
4B *Aim the lights*: turn on one light at a time; beginning with the right light, aim it (rotate and pivot the light head) so the illumination is about the same between the Double 6 (D6), Double 20 (D20) and Double 3 (D3). The right edge of the circle of light should be just outside of D6. Next turn off the right light and turn on the left light and repeat the process; focus now on D11, D3 and D20; the left edge of the circle of light should be just outside of D11. Finally, turn on both lights and make any final adjustments as needed. You're Done!

Notes/ Cautions

1. You can maximize battery life by dimming the lights. Hold the ON/OFF button to dim.
2. Use caution when removing or reapplying the spotlights so as not to break the retainer tabs.
3. Verify your light is securely mounted to the ceiling prior to use. Check again periodically and re-mount as necessary to maintain secure wall mounting.
4. Cleaning recommendation—dry or lightly dampened soft cloth.

Questions? Call Toll-Free (877) 271-STOP [7867]   © 2011 DSB

Mounting & Assembly Diagrams
Dart-Center Cordless LED Dartboard Light, Ceiling Mounted

Align Center of
Dartboard and Light

Dartboard

Backboard (optional)

Canopy below

Mounting Screw

3-1/2"

1-3/4"

Ceiling Bracket

Table 1

Shaft Length (inches)	Overall Light Depth (inches)
1	9
4.75	12.75
10.5	18.5
16.5	24.5
22.5	30.5
28.5	36.5
34.5	42.5

Power Button

Distance "D1" from Floor

Optimal Distance is 78" to 90"

Table 2

Distance "D1" (inches)	Distance "D2" (inches)
74 to 76.4	30
76.5 to 77.4	33
77.5 or more	36

Toggle Bolt (2) [Wing and Screw]

Ceiling Bracket

Wood / Anchor Screws (2)

Plastic Anchors (2)

LED Spotlight (2)

5" Alum. Canopy

Alum. Washer (3)

Alum. Shaft

AA Batteries (6)

Alum. Cap Nut

Alum. Light Arm

Power Button

2.75"

8" plus Shaft Length

Distance "D2", Dartboard to Light
30", 33" or 36"

Ceiling

Wall

Dartboard

Backboard (Optional)