



Spectra Light Bar Mounting Instructions

Needed:

- 3/8" or 1/2" and 1/8" drill bits
- Drill
- Screw drivers
- Wire strippers
- Allan wrench
- Countersink
- Fish tape
- 1.25" Hole Saw or drill bit

Wire:

If you purchased the Master wiring harness you will only need to provide wire and a fuse for the boat inside wiring. You will need wire for both the lights and the LED interior light- Enough (depending on your install) to run from the rear of the starboard mount to your desired power source or switch.

We recommend a minimum 18 gauge wire for powering both the lights and the interior LED. You must mount an inline fuse between your battery and switch. Each light draws .25 amps. We recommend multiplying the amount of lights by five to account for proper fuse size.

E.g. C6 light bar .25 amps x 6 lights = 1.5 amps (recommended 5 amp fuse for a C4 and C6).

Your new Spectra light bar can be mounted anywhere on your new tower- It has been designed to have the interior LED facing down but could be mounted with that facing upwards.

The lights do rotate to face either direction so it is up to you to choose a suitable mounting location.

Both ends of the light bar are equipped with a speakon connector but only one end needs to be plugged in. This allows you to mount it on the bottom or top of the tower but please only attach the wiring harness to one end.

LED COLOR OPTIONS:

For 2009 your Spectra light bar is equipped with an ice blue LED lens cover and shipped with fire red and crystal white lenses.

If you would like to switch the LED to a different color you can do so easily before installation.

1. Remove the two center screws from the top of the light bar.
2. Carefully pull the LED assembly down and out of the bar. With the LED plate and lens out of the bar you can remove the two remaining screws attaching the LED plate and lens.



1. Align the new LED lens and tighten the two screws. Replace the assembly in the bar and align the top two screws.
2. Tighten the two top LED Screws and you're ready for the rest of the install.

Wiring

Typically wiring will be done down the starboard side as your switch panel provides a good 12v power source and a number of possibilities for wiring (courtesy lights, nav lights, ACC switch etc.)

Because each tower/boat setup is different there are no specific instructions for wiring the tower- Most people will run the wires internally through their tower. To do this you need to drill a series of holes that will allow you to run the wiring harness inside the tower up to your desired mounting location. You can then fish the wires through using a fish tape.

Alternatively some people choose to run their wires outside the tower using zip ties or another attachment system. The choice is yours.

If you are NOT using our MASTER wiring harness you will need to connect the 18" wiring harness provided according to the following chart:

Light Bar Wiring Harness (supplied with Light Bar)		
Terminal	Function	Wire Color
2+	Lights +	Red
2-	Lights -	Black
1+	LED +	Yellow
1-	LED -	Blue

If you are using our MASTER wiring harness you will need to connect the provided harness to the master according to the following chart:

Note- You should run the harness up through the tower before making your connections between the two harness'. This will prevent having to detach either speakon connector.

Master Wiring Harness		
Starboard Side		
Terminal	Wire Color	Function
1+	Red	Light Bar Lights +
1-	Black	Light Bar Lights -
2+	Orange	Optional second Light Bar +
2-	Brown	Optional second Light Bar -
3+	Yellow	Light Bar LED's +
3-	Blue	Light Bar LED's -
4+	White	Optional Beacon Light +
4-	Green	Optional Beacon Light -

Note- you may not use all wires in the master harness- They are there for your future convenience.

When you have each wire fished through the holes you can attach the harness'.

(Boat Side)- A qualified electrician is required for the installation in side the boat.

Included with your MASTER wiring harness is a female 8--pole boat side speakon connector. (Not exactly as shown)

To install this the installer will need to drill a hole with a hole saw through the deck of the boat. The hole should be between 2-4" aft or behind the rear mounts



1. Begin by marking the spot you want to drill and making sure the lip of the speakon will not touch the mount

Before drilling check inside the gunnels of the boat to ensure that you will not be drilling into any electrical wires or cables!!!

2. Drill the pilot hole carefully and just before the hole saw contacts the gel coat run the drill in reverse while slowly allowing the blade to contact the deck (this helps protect the gel coat from cracking)
3. You can now put the drill back into FWD and finish drilling the hole
4. Insert the female speakon into your new hole. Mark the 4 holes and remove the speakon. Using your 1/8" drill bit drill the 4 holes you just marked. Take your countersink and carefully run it in each of these holes to again help prevent gel coat cracking
5. Using 2 stake on connectors attach them to one end of your 14 gauge (lights) wire (+ &--)
6. Insert the ends of the wire through the 1.25" hole.
7. Connect these wires to the corresponding terminals on the female speakon-

Female Speakon Terminals		
Starboard Side		
Terminal	Wire Color	Function
1+	Red	Light Bar Lights +
1-	Black	Light Bar Lights -
2+	Orange	Optional second Light Bar +
2-	Brown	Optional second Light Bar -
3+	Yellow	Light Bar LED's +
3-	Blue	Light Bar LED's -
4+	White	Optional Beacon Light +
4-	Green	Optional Beacon Light -

8. Using two more stake on connectors attach them to one end of each of your 16 gauge (LED interior light) wires.
9. Insert the ends of your power wire through the 1.25" hole.
10. Connect your wires to the corresponding terminals on the female speakon- See chart above
11. Put the speakon back into its hole.
12. You can now screw the speakon into the four 1/8" holes you previously drilled with the provided 1/8" screws

13. Run the Light wires to your chosen switch or power source. Make sure you insert the correct inline fuse for your light bar on the positive power source wire and connect.
14. Run the LED interior light wires to your chosen switch or power source and connect.

Attaching the light bar to the tower

**Note* it may be helpful to have a second person available to hold the bar in place as you tighten the clamps*

1. Using an Allan wrench undo the two ¼" bolts in the clamps and remove the top half of the clamp
2. Hold the bar in the position you would like (see recommendations at the beginning of these instructions).
3. If the light bar does not fit where you would like it due to cross members, bars etc. you will be able to get around this with the multiple mounting positions.



1. Remove the plug from the extra hole (C4 has 2 positions and C6 has 3) and attach clamp to new position.
2. Align the top half of the clamp around the tower.
3. Re-insert the ¼" bolts and tighten each one down evenly being careful not to strip the threading-. Lock-tite medium or high strength must be used on all 4 bolts
4. With your boat and all switches turned off you can now plug the speakon into the light bar and the second speakon into the female on the deck.
5. Insert the male speakon into the female and twist clockwise for engagement
6. Your light bar should now be fully operational.

NOTE: Roswell Wake Air is not liable for incorrect wiring done on any boats that may cause any mishaps. It is the purchasers responsibility to have a qualified technician to install all products.

Trouble shooting

If for some reason your lights are not working check the following:

- Do you have power at the switch you have wired into and is the switch flipped on?
- Is your inline fuse blown or in good working order?
- Is the speakon engaged? It will lock in place by twisting clockwise
- When you re-attached the male speakon after fishing the wire through the tower were all the connections solid and not touching each other?
- Are the stake-on's firmly attached at the back of the female speakon connectors? (these sometimes get pulled off while fishing the wire to the switch/power source)

**If you are still having problems you can reach us at:
780-962-0868 or info@roswellwakeair.com**

