



Operations Manual SledStart H4 HID Light Kit



Designed by a rider, for the rider!

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INTRODUCTION

Thank you for purchasing The SledStart™ HID Light Kit. HID Bulbs increase peripheral visibility up to 70% more than halogen bulbs and provide up to 3x more illuminated coverage than the stock lighting that comes with your snowmobile. HID Kits are easy to install, even for the most novice of mechanics. Kit is fully plug and play!

Please read this entire manual prior to installing and operating the system.

SAFETY WARNING

PLEASE READ THESE INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING THIS INSTALLATION.

NOTICE!!!

DO NOT TOUCH THE BULBS!!! THE OIL IN YOUR SKIN CAN CAUSE BULB TO FAIL PREMATURELY!

PACKAGE CONTENTS

Once you open the package you will find the following contents:

- 2 Bi-Xenon bulbs
- 2 ultra thin ballasts
- 1 custom fit harness
- 6 self tapping screws
- 6 heavy duty zip ties
- 4 small zip ties

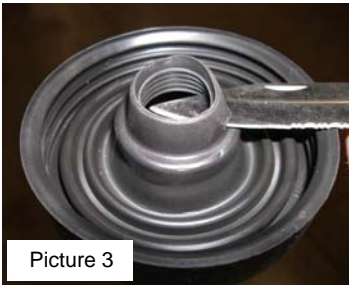


INSTALLATION INSTRUCTIONS

Installation is fairly self-explanatory as you can see by the inside panel of the box. Just pay attention to wire colors (black/red) when plugging in the bulbs. The connectors are all keyed so it's just about impossible to make mistakes. You will only use one of the two 3 pin bulb sockets from your snowmobile's wire harness that plugged into your original light bulbs. This will operate the high/low circuit in the HID kit. Fill the unused socket with dielectric grease or Vaseline and tape it off. It will not be used.

Bulb Installation

To install the bulbs, you may need to trim your rubber gasket around the bulb itself - see pictures 1-5.



On the Apex, Rage, Warrior, Attack, Rx-1 type body style, they all use the same gasket. The thick rubber collar that would normally wrap around the stock H4 bulb will need to be removed. Just cut it off at the base so the HID bulb can fit through the hole.

Once the gasket collar has been removed the gasket should look like picture 5.



Next twist the bulb from the "LOCK" to the to the "OPEN" position and remove the bulb from the 3-tab base - see pictures 6 - 8.



Picture 6



Picture 7

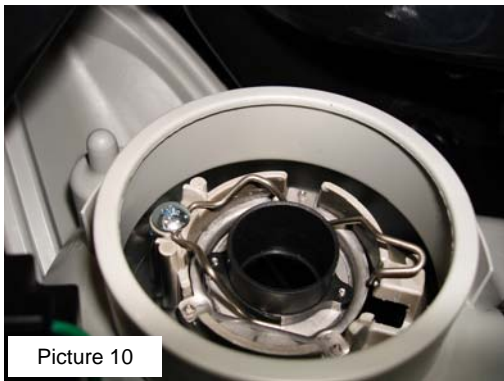


Picture 8

Insert the 3 tab base into the headlight housing with the stock retaining clip - see pictures 9 & 10.

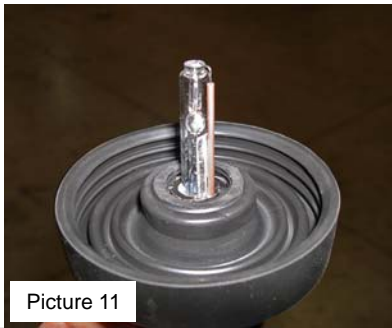


Picture 9



Picture 10

Next carefully insert the bulb through the gasket and work the gasket to the tapered part of the bulbs base just past the bulbs white O-ring - see pictures 11-14.



Picture 11



Picture 12



Next insert the bulb and the rubber gasket back into the 3-tab base finding the “OPEN” groove. Once you find the groove and you have the bulb and gasket all the way into the 3-tab base, twist the bulb and gasket clockwise until you feel it click or “LOCK”. Seat the boot back into place on the headlight housing. Be sure when you seat the gasket that it fully seated by pressing it all the way onto the housing. See picture 15 for completed install.

As you see, there is a LOCK and OPEN mark to twist the bulb out of the 3-tab base/deflector. Be careful not to lose the O-ring! This O-ring keeps the bulb in the “LOCKED” position. If you need to remove the bulb, just unseat the rubber gasket and twist the gasket and the bulb counter clock-wise or to the “UNLOCK” position leaving the 3-tab base clipped into the snowmobile.



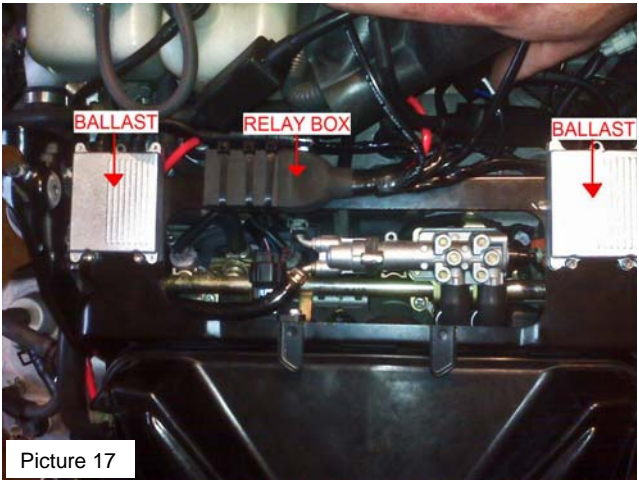
Mounting The Ballasts

As far as mounting the ballasts, as you can see they are fairly sturdy. On our test Apex we mounted them on top back edge (closest to the steering post) of the black bracket going over the throttle bodies. Notice in pictures 16 & 17 the ballasts are mounted using 4 of the 6 supplied self tapping screws. The ballast must hang off the edge of the headlight pod mounting bracket approximately $\frac{3}{4}$ " - 1" for the headlight pod to slide all the way back on the mounting bracket. You can slide your pod on the bracket before installation and scribe the bracket to make sure your mounting the ballasts back far enough for the headlight pod to slide all the way

back on the bracket. Next place one ballast just past your scribe mark. Lightly center-punch and drill 2 small pilot holes for the self tapping screws. This will make the screws go in much easier. Use caution when drilling and drill with light to moderate pressure! Repeat for the other ballast.



Picture 16



Picture 17

CAUTION! Before drilling place a rag over the top of the throttle body area to catch any metal shavings from drilling. You don't want these shavings to get down into the throttle body area!!! Also be certain that the self tapping screws do not rub, chafe or interfere with any lines or hoses under the headlight pod bracket that would cause leaks!!!

If you prefer to mount the ballasts elsewhere on the Apex, you can use the supplied heavy-duty zip ties to mount them to each of the outer sides

of the black bracket.

The relay box can also be mounted on the headlight pod bracket just off center as shown in pictures 16 and 17. Your headlight pod will fit if you follow these mounting instructions.

On any other snowmobile you can mount the ballasts anywhere suitable. Just be sure they're not in the way for general maintenance or any moving parts etc. As always the dryer the location the better! There are 6 heavy duty black 14" zip ties included. Use these for mounting the ballasts and the relay box OR you can use the supplied self tapping screws (3 per ballast) and the relay box mounting nut and bolt supplied in the kit. The small zip ties in your kit are for routing your wires. Use caution when routing wires making sure they are not rubbing or chaffing any sharp edges.

Enjoy your new SledStart HID lights! If you have any questions or comments please e-mail us at SUPPORT@SLEDSTART.COM

