



Meng Motorsports HID Kit Installation Manual

Thank you for purchasing a Meng Motorsports HID Kit. Prepare to enjoy a more luxurious ride with increased visibility whether you drive in rain, snow, or night. HID's have been proven to be extremely brighter than regular halogen bulbs.

Please Note:

-This manual serves merely as a guide. Meng Motorsports is not responsible for any damage or loss caused by installation. Meng Motorsports recommends professional installation for any products added to vehicles. By following this manual, the user acknowledges and agrees to be responsible for any risk and damaged caused.

-The two year warranty does not cover damage caused by installation error and is solely for manufacturer defects.

-Please refer to vehicles owners manual for correct bulb size. Incorrect bulb sizes will not fit in vehicle headlamps.

-Before beginning, ensure vehicle is off and cool. Disconnecting the battery is also recommended for safety.

-When handling the bulbs, never touch the actual bulb housing as dirt and oil can cause damage.

-The demonstration vehicle used in this manual is a 2007 Scion TC with size 9006 bulbs. Use this as a general instruction if kit is being installed on another vehicle.

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-Placement of ballasts and relay harness is decided by user.

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Ensure all contents of kit has been received



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Step 1)



Locate the factory headlamp plug that is connected to the existing headlamp bulb. Press in the clip and remove the headlamp plug carefully. Once the plug is removed, turn the base of the bulb counter clockwise to unlock the bulb. Remove bulb and preserve in a safe place in case of future use.

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Step 2)



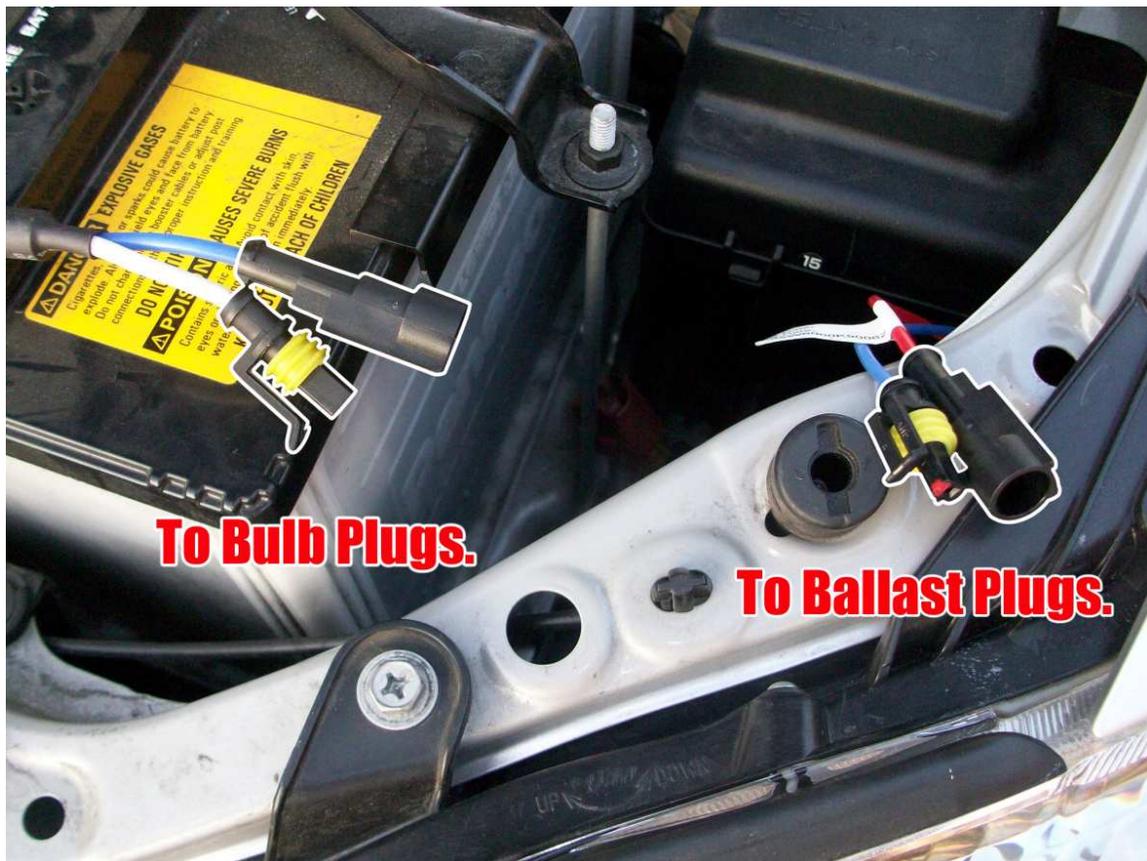
Grab one HID bulb by its base and insert into the empty headlamp socket. Once bulb is in place, turn the bulb by its base clockwise to lock the bulb back in place. Ensure the bulb is snug and is not loose.

NOTE: Never touch the actual bulb. Bulbs of any kind must be handled with care. Any dirt or oil may damage the bulb and cause a shortened life span.

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Step 3)



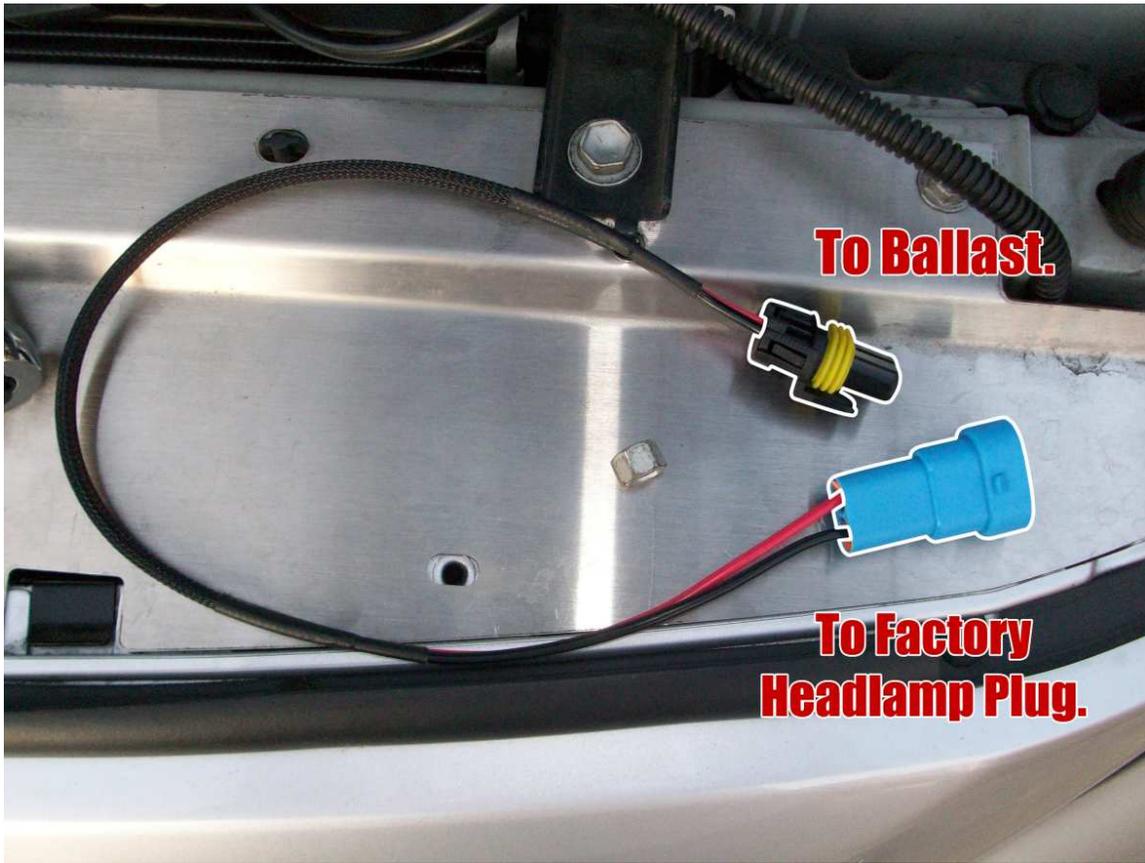
Locate the two HID bulb wires extending out of the base of the bulb. These two plugs will connect into the two similar plugs on the ballast. Each plug will distinctively connect into the other wire. Before connecting, it is a good idea to find a ideal spot to mount the ballasts. We include both double sided tape and ballast brackets to allow users on how to mount their ballasts. Please choose a smooth and safe location to ensure ballast reliability.

NOTE: Removing the factory front bumper can lead to more available locations to mount the ballasts. Remove the bumper only if no ideal location can be found. Refer to owners manual on how to remove the factory bumper.

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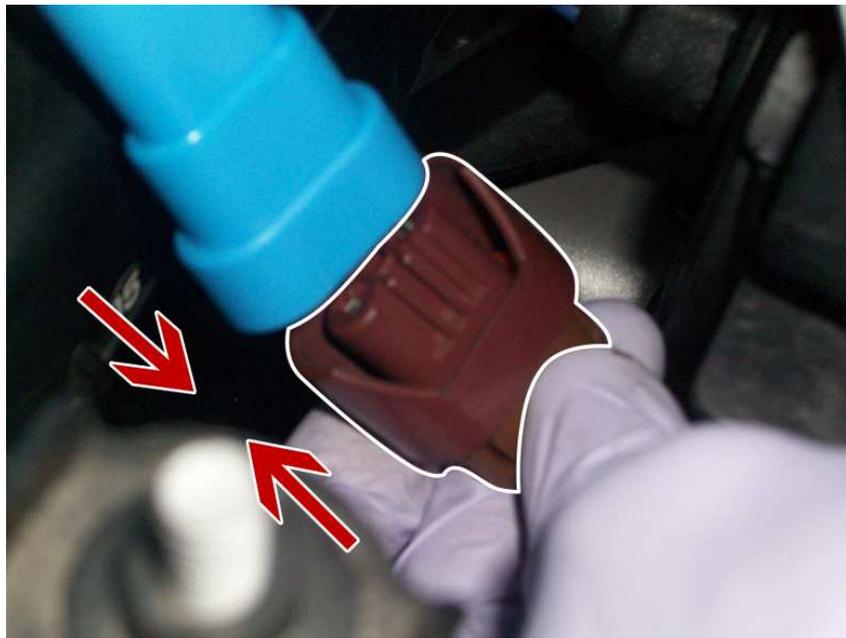
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Step 4)



Locate one plug-and-play wire. There should be two of these wires in the kit. One plug-and-play wire is used for each side. Plug the male side of the wire into the ballast opening. Then, plug the female end of the wire into the factory headlamp plug that was removed in Step 1.

Step 5)

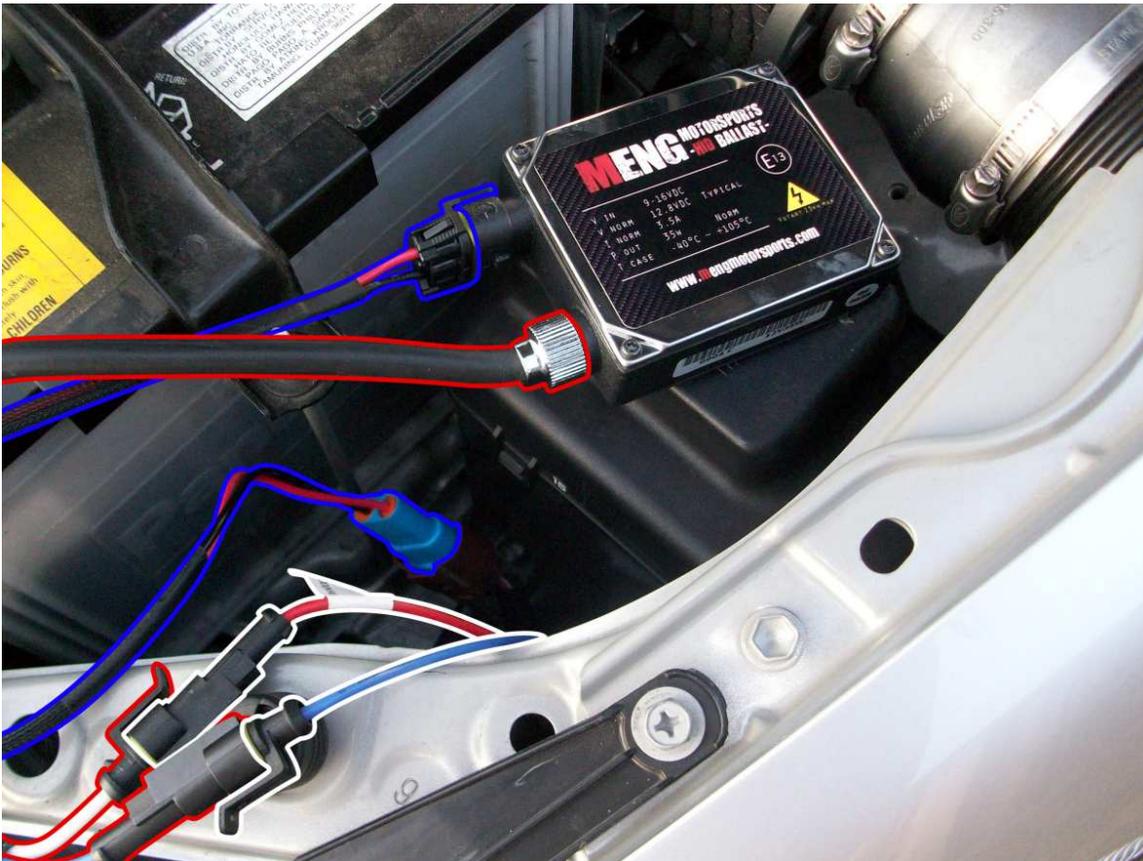


Both ends of the plug-and-play wire should fit as snug as possible to prevent them from coming loose during operation. Ensure the red wire of the plug-and-play wire is facing the positive (+) side of the ballast. Most vehicles cannot run their headlights if the plugs are in reverse polarity.

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Step 6)



One side of the headlamp should now be fully connected and complete. Refer to the picture above for a quick summary on where each plug connects. The plug outline in BLUE is the plug-and-play wire that should connect to the ballast and the factory headlamp plug. The outlined WHITE wires are the two HID bulb wires that connect to the ballast wires outline in RED.

Complete the same above steps for the other headlamp. Re-connect battery if it was disconnected and now test. Your HID kits should now be fully functioning!

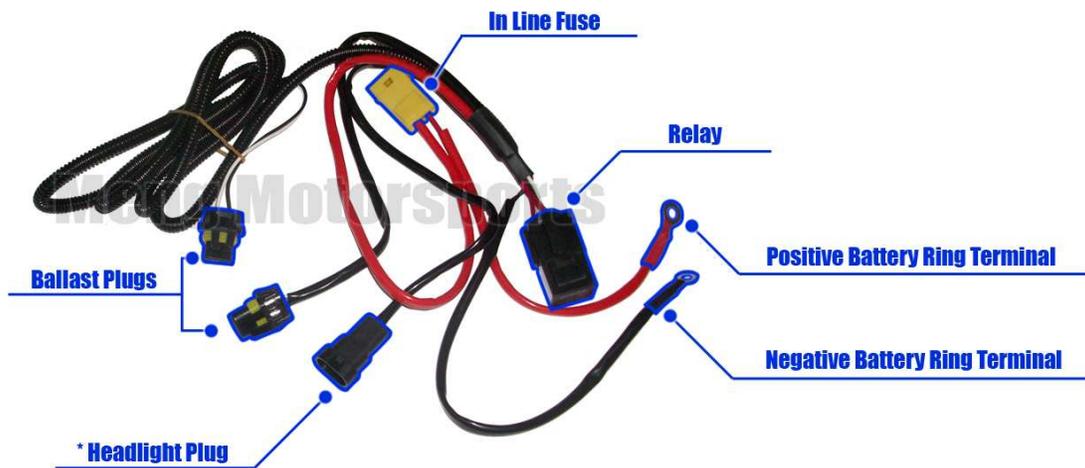
Continue reading this manual the relay harness installation.



Relay Harness Installation Manual.

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-HID Relay Harness Chart-



*** The relay harness headlight plug is universal and requires the use of one plug and play wire as the adapter.**

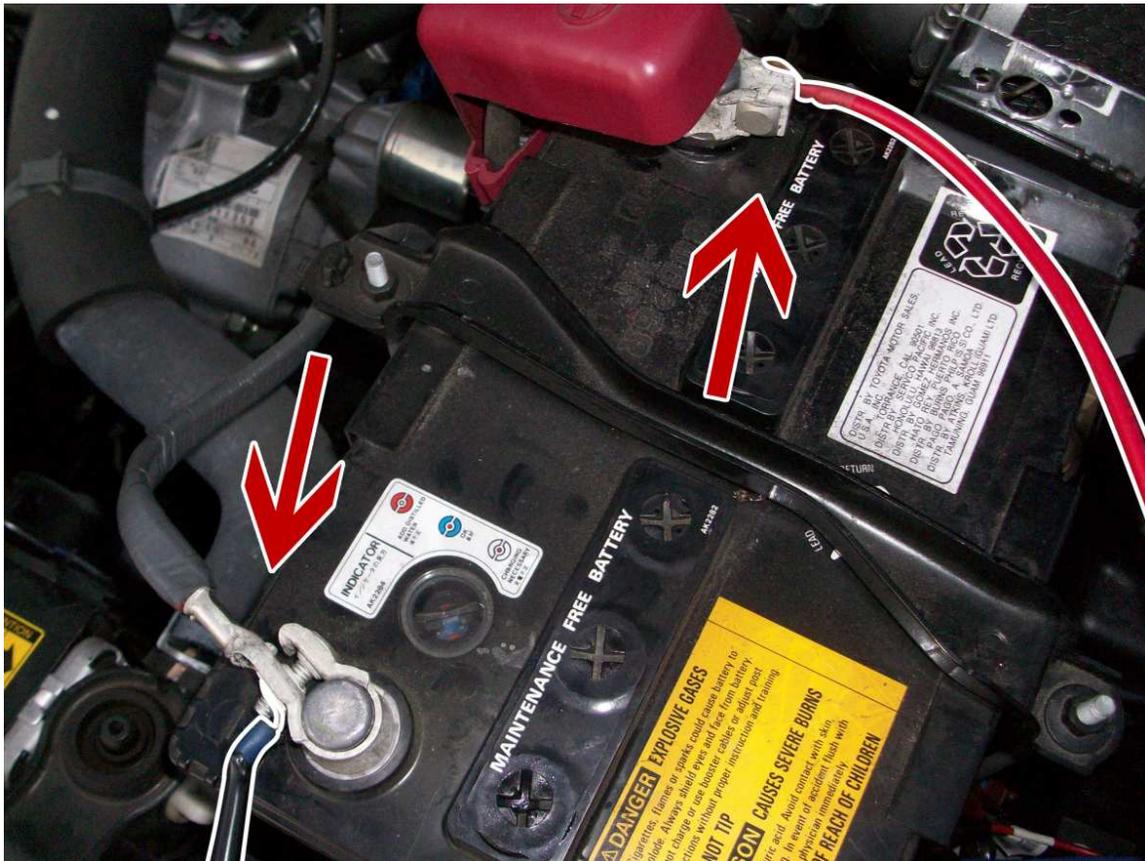
Refer to picture above for a general idea of where each plug goes. Our relay harnesses are universal and generally fit in any size headlamp. By using a relay harness only ONE plug-and-play wire will be used.

Continue reading for the step-by-step instruction.

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Step 7)



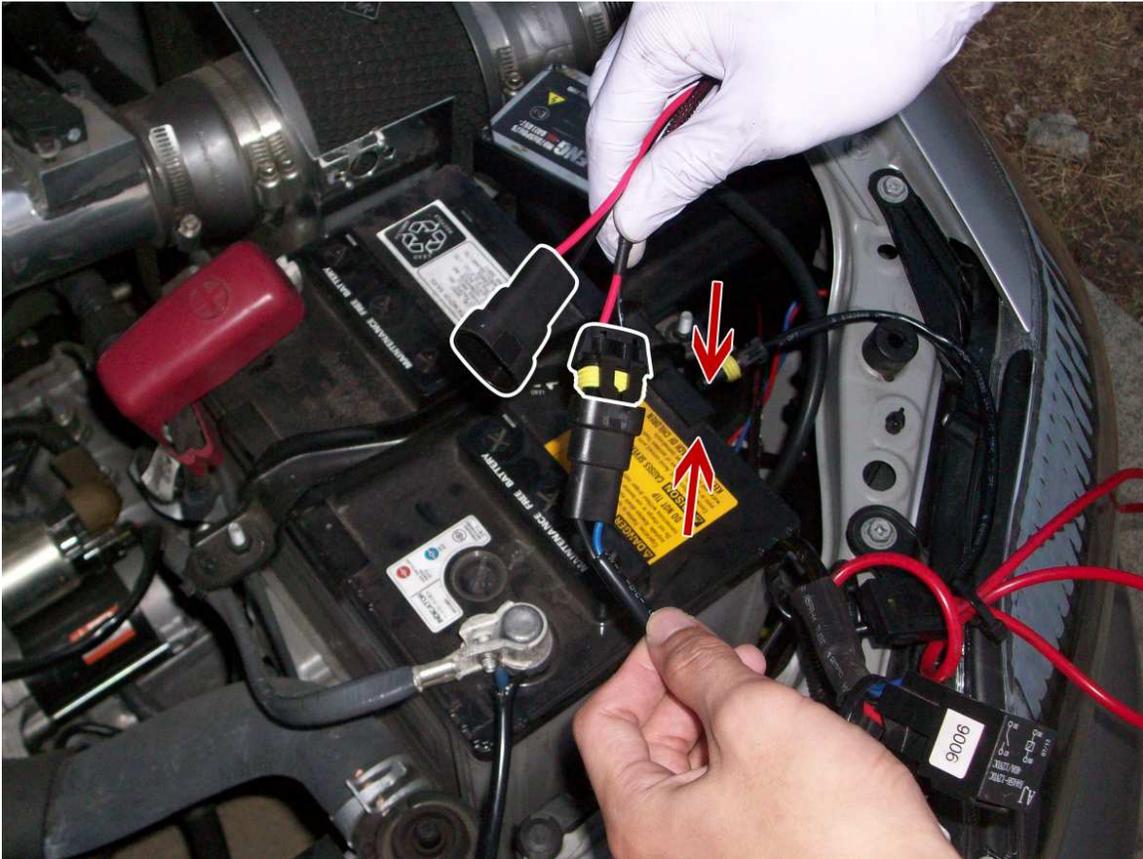
First remove the 2 nuts holding the battery taps onto the battery terminals. By removing the nut, the screw should be exposed. Tap the two ring terminals from the relay harness onto the screws as shown above. Attach the nuts back onto the battery taps until snug.

NOTE: Remember that the red wire should tap onto the positive battery terminal. Black wire will go to the negative.

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Step 8)



Locate the headlamp closest to the battery. As shown above, the TC's driver side headlamp is closer to the battery. Remove the previously installed plug-and-play wire as shown in Step 4. Instead you will attach the male side of the plug-and-play wire into the relay harness plug. Attach the other end of the plug-and-play wire into the factory headlamp plug.

NOTE: This plug-and-play wire is now used as an adapter to plug the relay harness into the factory headlamp plug.

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Step 9)



Performing Step 8 will leave that ballast with an empty slot. Plug that female end with the male ballast plug from the relay harness. Relay harness wires may not be Red and Black, but instead Blue and Black or White and Black. Black will always be negative so ensure the positive wire is facing the positive (+) side of the ballast.

NOTE: There should be 2 of these ballast plugs. One will be distinctively shorter than the other. The longer wire will be used for the other ballast furthest away from the battery.

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Step 10)



Now lets work on the other headlamp. Remove the plug-and-play wire from the other ballast and headlamp plug. By installing a relay harness, this plug-and-play wire will no longer be used. Tape off the factory headlamp plug to protect it from any debris. Connect the longer ballast plug into the ballast.

All connections of the relay harness should now be complete. Test the kit and enjoy!



Troubleshooting Common Problems

1. My kit does not turn on at all:

Double check the polarity of connections. Black = Negative. Loose connections can also result in loss of power. Loose or incomplete connections are a very common mistake customers can make. Please double check all connections are snug and secure.

2. Only one side of the headlamp turns on:

If one side does not turn on at all, then double check connections specifically on that side. Then if it still doesn't turn on, switch the non operating bulb to the other headlamp to see if it's a headlamp or bulb problem. If the problem then goes to the other side, then it is of course the bulb. If the problem still stays then it might be a ballast problem. Ballasts should generally make a slight buzzing sound when operating. If no buzzing sound is heard, the ballast might be damaged. In the unfortunate case of a bad ballast or bulb, contact Meng Motorsports for a warranty claim immediately.

3. The kit flickers then dies.

As always re-check connection. If only one side is flickering then swap the bulbs to see if the problem goes to the other side. If bulb or ballast problem cannot be determined, purchase a relay harness. Relay harnesses will fix 99% of problems that are claimed. Some vehicles just don't have the proper condition of headlamp plugs to power HID kits. Relay harnesses will allow the kit to draw power straight from the battery.



Things to Remember to Ensure the Longest Lifetime of Your Kit:

-Always start your vehicle before turning the HID kits on. This will prevent most common problems of flickering bulbs. It is good practice to allow the battery to start the engine before powering the kit.

-Do not unnecessarily restart your HID kit repeatedly. By turning the kits off and on, you can cause damage to a variety of parts. We understand HID's can be fun, but by continuously restarting your kits, you can damage your factory plugs, blow a fuse, or even damage the bulbs and ballasts.

-Our kits have been tested to be waterproof, but do not attempt it at home. The two year warranty does not cover kits that have been water damaged. The test was done merely to show the quality of our kits. The kit itself is waterproof but because of the inline fuse, the relay harness is not waterproof.

-When first powering the HID kit during a cold start, there may be an initial flash of light. The light should cool down and stable itself within 1-5 seconds. This initial light difference is completely normal and should cease when the ballasts are warmed up.

-If problems still arise, always re-check connections. Try purchasing a relay harness. Relay harnesses are highly recommended for safety and will also fix any problems that may arise.

-Enjoy the HID kit and tell your friends and family about us!

Visit www.Mengmotorsports.com for more products at great prices!

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