



V1 & V2 PROJECTOR

Installation Guide

Halogen Kits

HID Kits

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IMPORTANT:

READ THESE INSTRUCTIONS BEFORE OPERATING. BEFORE USING THESE HEADLIGHTS, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS, AND MAINTENANCE REQUIREMENTS.

LIMITED WARRANTY

DAPPER LLC WARRANTS TO ITS CUSTOMERS THAT THE COMPANY'S DAPPER LIGHTING BRANDED PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS.

Dapper LLC will repair or replace its Dapper Lighting branded products which fail to give satisfactory performance due to defective workmanship or materials, based upon the terms and conditions of the following described warranty plans attributed to that specific product.

Most products carry a FIVE-YEAR warranty. During this warranty period, Dapper LLC will repair or replace at our option any part or unit which proves to be defective in material or workmanship.

This warranty does NOT cover damage to equipment arising from alteration, abuse, misuse, damage, installation error, and does not cover any repairs or replacement made by anyone other than Dapper LLC.

The foregoing obligation is Dapper LLCs' sole liability under this or any implied warranty and under no circumstances shall we be liable for any incidental or consequential damages.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. If you have any questions regarding warranty service, please contact Dapper LLC.



Universal Projector

Halogen Kit Install Guide

Thank you for choosing Dapper Lighting for your projector headlight upgrade!

The following is an install guide for our universal projector headlight systems, both 7" round and 7x6" square.

If you have any suggestions on how to improve the simplicity of our guide, or if you need more technical assistance, contact Dapper Lighting today at [\(833\)-DAPPER-1](tel:833-DAPPER-1) / [\(833\)-327-7371](tel:833-327-7371) or support@dapperlighting.com



Warning:

This guide is for the Dapper Lighting HALOGEN kit install only. If you purchased a Dapper Lighting Projector kit WITH an HID kit, please see our HID kit install guide on page 14.

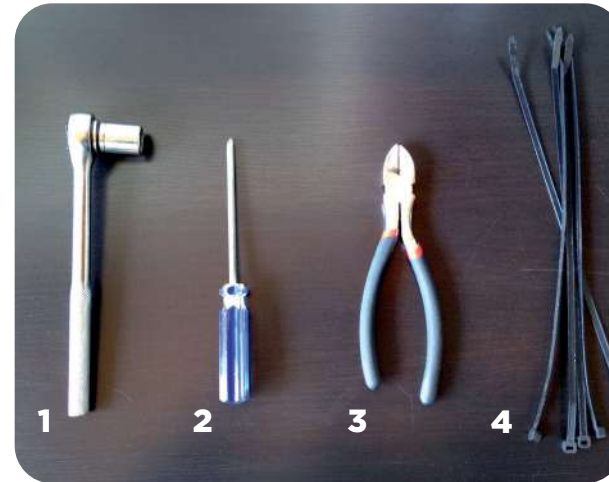
Let's get started.

To begin, make sure you have all necessary Dapper Lighting components as well as a few common tools. Below is a list of what is required:



Parts Diagram

1. Dapper Lighting Projector Headlight x2
 2. H4-H1 Adapter x2
 3. 6A Diode x2
 4. Halogen Bulb x2
- (Not needed if using HID Kit)
5. City/Running Light (Mounted Below Projector - Not seen in photo)



Tools Diagram

1. Socket Wrench
2. Phillips Screwdriver
3. Wire Cutters
4. Zip Ties

For your safety, please disconnect your battery and prepare to remove your stock headlamps.



Currently Installed Headlight

Locate mounting screws and/or bracket on your currently installed headlights.



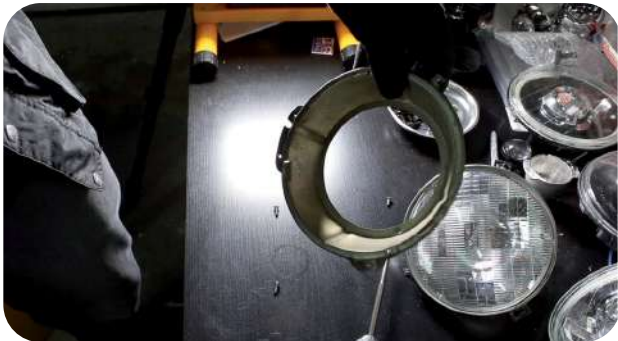
Dismounting Headlights

Dismount your headlight by loosening the screws.



Removing Headlight

Carefully pull your headlight from its fixed position. Try not to lose any loosened screws!



Removing Mounting Brackets

You will most likely be reusing the stock headlight mounting brackets, so be careful when removing them. After removing them from the original headlights, reinstall them on your new Dapper Headlights.



Reinstalling Mounting Brackets

Once your old headlights are out of your mounting brackets, secure your Dapper Headlights by lining up the three tabs with the TOP side of the housing on top.

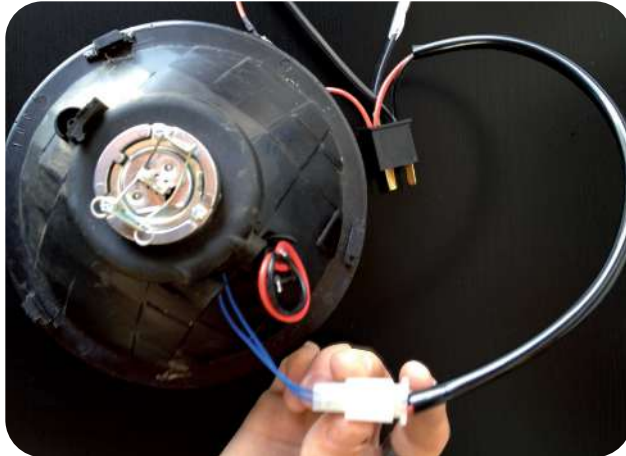
Warning:

You may need to shape or shave the tabs with a file if they do not sit completely flush.



Installing Halogen Bulbs

Take your Dapper Lighting halogen bulbs (Part #4) and clip them into your Dapper Lighting projector housing securely.



Wiring Your Headlights

Locate the two prong white connector on the headlight and plug it into the matching connector on the harness.



Test fit Dapper Headlights

Once your HID bulbs are secured inside your Dapper Lighting projector and your extra spade adapters are removed, TEST FIT your headlights to make sure they fit snug just like your OEM headlights.

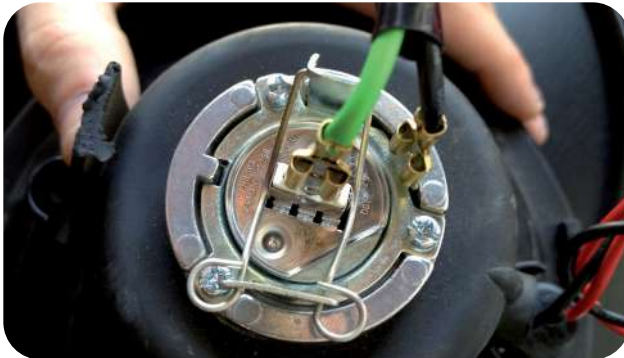
There should be no excessive play or protrusion.



Securing Dapper Headlights

Now that the Dapper Lighting headlights fit correctly, you will need to refasten them.

Using the same mounting hardware associated with your OEM headlights, tighten your headlights into place and prepare to start the wiring.



Wiring Bulbs

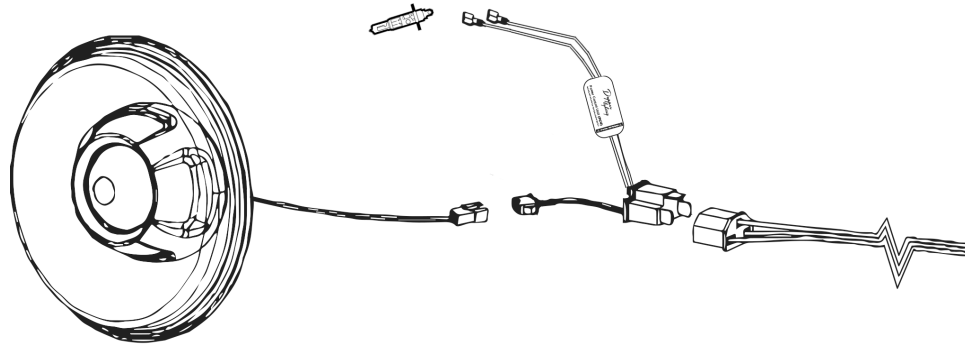
Next take the spade connector (green wire) coming from the Dapper Lighting H4-H1 Adapter (Part #2), and plug it into the back of your halogen bulb.

Now take the spade connector (black wire) coming from your Dapper Lighting H4-H1 Adapter (Part #2) and plug it into the small metal GROUND tab located near your halogen bulb.

Repeat with other headlight.

PCU HARNESS

For use with Harness Part Number:
H4H1ADS

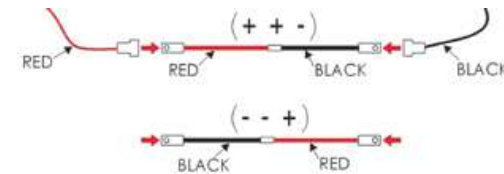
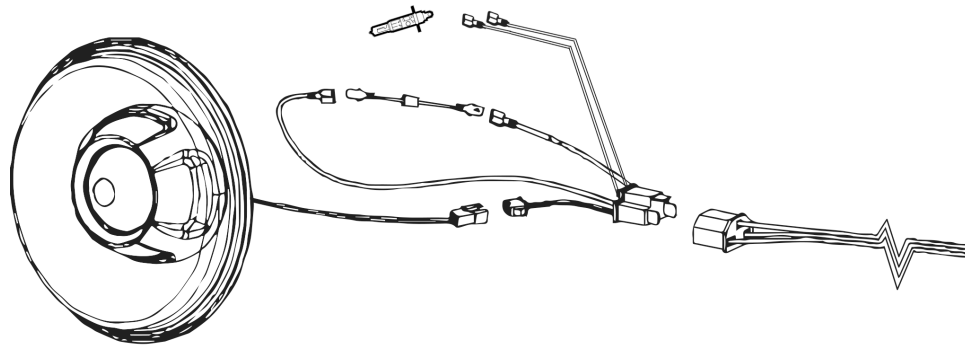


Note:

Your Sevens feature our Power Control Unit (PCU) which is an automated headlight control system module and no longer needs a diode. Please follow the guides accordingly and contact us if you have any questions.

DIODE HARNESS

For use with Harness Part Number:
H4H1AD



In some cases, you may need to switch the polarity on the diodes for your high/low to work properly. If that is the case, you must switch the polarity to (red black/ red black). Try your low and high beams again. If there is a problem, check your connections and contact our customer support team.

Testing Your Headlights



Test Low Beams

Reconnect your battery. Turn on your vehicle's auxiliary power. Flip on your headlights and see if the low beam is working as it should be. If the low beam lights are NOT working, double check that you have good connections and correct polarity on all parts of the harness. If you are still having issues, please contact a Dapper Lighting Technician before moving forward.



Test High Beams

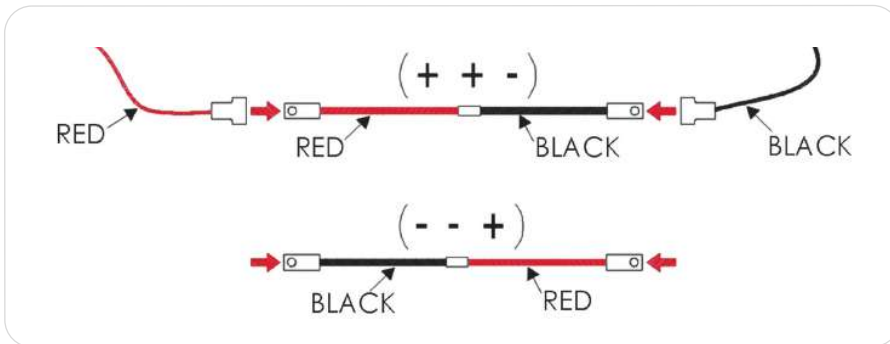
Turn on your high beams and check for a change in output pattern. Switch between both low and high beams several times to make sure you have a good connection.

Warning:

If your headlight shuts off while turning on high beams, refer to the diagram on the next page (page 13). Otherwise, skip to the next step.

Diode Polarity

In some cases, you may need to switch the polarity on the diodes for your high/low to work properly. If this is the case, you must switch the polarity of your small black/red diode to (red black/ red black). Try your low and high beams again. If this works, move on to the next step. If you are still having issues, please double check all of your connections. If there is still a problem contact a Dapper Lighting Technician.



City Lights/Running Lights/Halo and Angel Eyes(Optional)

Most Dapper Lighting Headlights come with either a built in city/running lights below the projector or a built in halo/angel eye around the projector. These do NOT come pre-wired and are open for different uses. You can wire them up to turn signals, parking lights, or leave them as they are. For the city/running lights, the halogen T10 bulbs included can also be upgraded to Dapper Lighting LED T10 Bulbs (Dapper Lighting SKU #T105SMD). Halo/angel eyes cannot be upgraded at this time.

For Headlight Aiming Instructions, please refer to page 30.
For Troubleshooting and FAQs, please refer to page 33.



Universal Projector

HID Kit Install Guide

Thank you for choosing Dapper Lighting for your projector headlight upgrade!

The following is an install guide for our universal projector headlight systems, both 7" round and 7x6" square.

If you have any suggestions on how to improve the simplicity of our guide, or if you need more technical assistance, contact Dapper Lighting today at [\(833\)-DAPPER-1](tel:833-DAPPER-1) / [\(833\)-327-7371](tel:833-327-7371) or support@dapperlighting.com

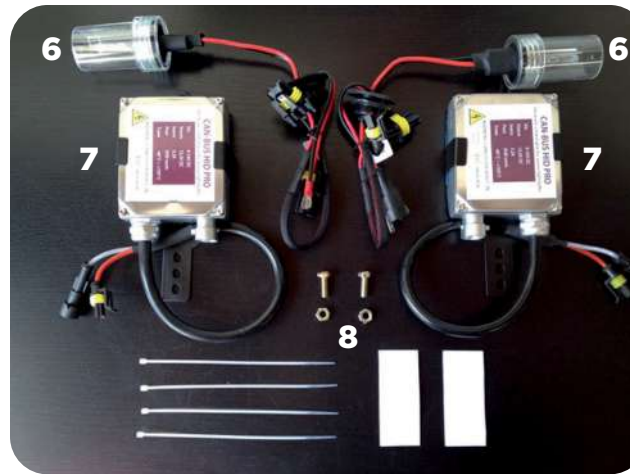
Let's get started.

To begin, make sure you have all necessary Dapper Lighting components as well as a few common tools. Below is a list of what is required:



Parts Diagram

1. Dapper Lighting Projector Headlight x2
2. H4-H1 Adapter x2
3. 6A Diode x2
4. Halogen Bulb x2
(Not needed if using HID Kit)
5. City/Running Light (Mounted Below Projector - Not seen in photo)



HID Kit

6. A High Intensity Discharge (HID) Bulb
7. HID Ballast x2
8. Mounting Equipment



Relay Kit

9. Dapper Lighting HID Relay Harness x2



Tools Diagram

This figure shows common tools which may be used for installation. The recommended tools include:

1. Socket Wrench
2. Phillips Screwdriver
3. Wire Cutters
4. Zip Ties

Once you've located all necessary components and tools for this install, we can begin!

For your safety, please disconnect your battery and prepare to remove your headlights.



Currently Installed Headlight

Locate mounting screws and/or bracket on your currently installed headlights.



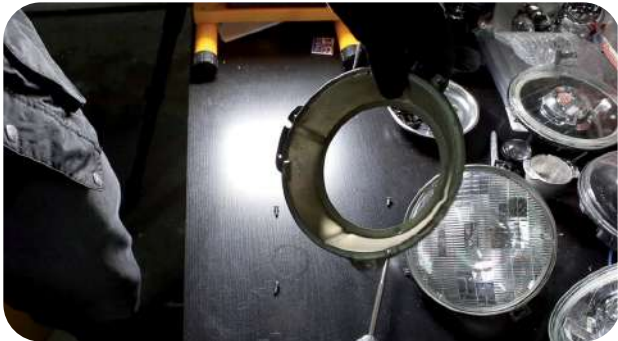
Dismounting Headlights

Dismount your headlight by loosening the screws.



Removing Headlight

Carefully pull your headlight from its fixed position. Try not to lose any loosened screws!



Removing Mounting Brackets

You will most likely be reusing the stock headlight mounting brackets, so be careful when removing them. After removing them from the original headlights, reinstall them on your new Dapper Headlights.



Reinstalling Mounting Brackets

Once your old headlights are out of your mounting brackets, secure your Dapper Headlights by lining up the three tabs with the TOP side of the housing on top.

Warning:

You may need to shape or shave the tabs with a file if they do not sit completely flush.



Installing your HID bulbs

Unscrew the clear plastic protective case to free your HID bulb and place it inside your new Dapper Lighting projector. Be careful not to touch the bulb, as oils from your hands could impair light output.

To refocus the projector for HID bulbs, please click on the Bulb Focusing Document at:
<https://www.dapperlighting.com/pages/bulb-install-guide>



Note:

This modification will NOT void your Dapper Lighting product warranty.

Properly Seating and Securing Bulbs

Once you have installed the bulb, pull the clips across the bulb and secure them onto the locking tabs.

Warning:

HID bulbs may vary from kit to kit. In some instances you may need to use a pair of pliers to modify the clips: Take a pair of pliers and gently pull on the clip's loop. This will allow for more slack in the clips and allow you to securely fasten your bulb.



Remove Spade Adapters

After installing your HID bulbs into your new Dapper Lighting projector housings, completely remove this extra spade adapter from both sides.

It is attached to your bulbs / wiring, but will NOT be used during installation. Discard or set aside.



Test fit Dapper Headlights

Once your HID bulbs are secured inside your Dapper Lighting projector and your extra spade adapters are removed, TEST FIT your headlights to make sure they fit snug just like your OEM headlights. There should be no excessive play or protrusion.



Securing Dapper Headlights

Now that the Dapper Lighting headlights fit correctly, you will need to refasten them.

Using the same mounting hardware associated with your OEM headlights, tighten your headlights into place and prepare to start the wiring.



Wiring Power

Locate your positive (red) terminal on your battery. On your Dapper Lighting Relay Harness (Part #9), locate the two fused (red) terminals.

Using a Socket Wrench (Tool #1), connect positive wires to the positive terminal on your battery and secure tightly.



Wiring Ground

Find a good ground contact on your chassis and secure the remaining two ground (black) wires.

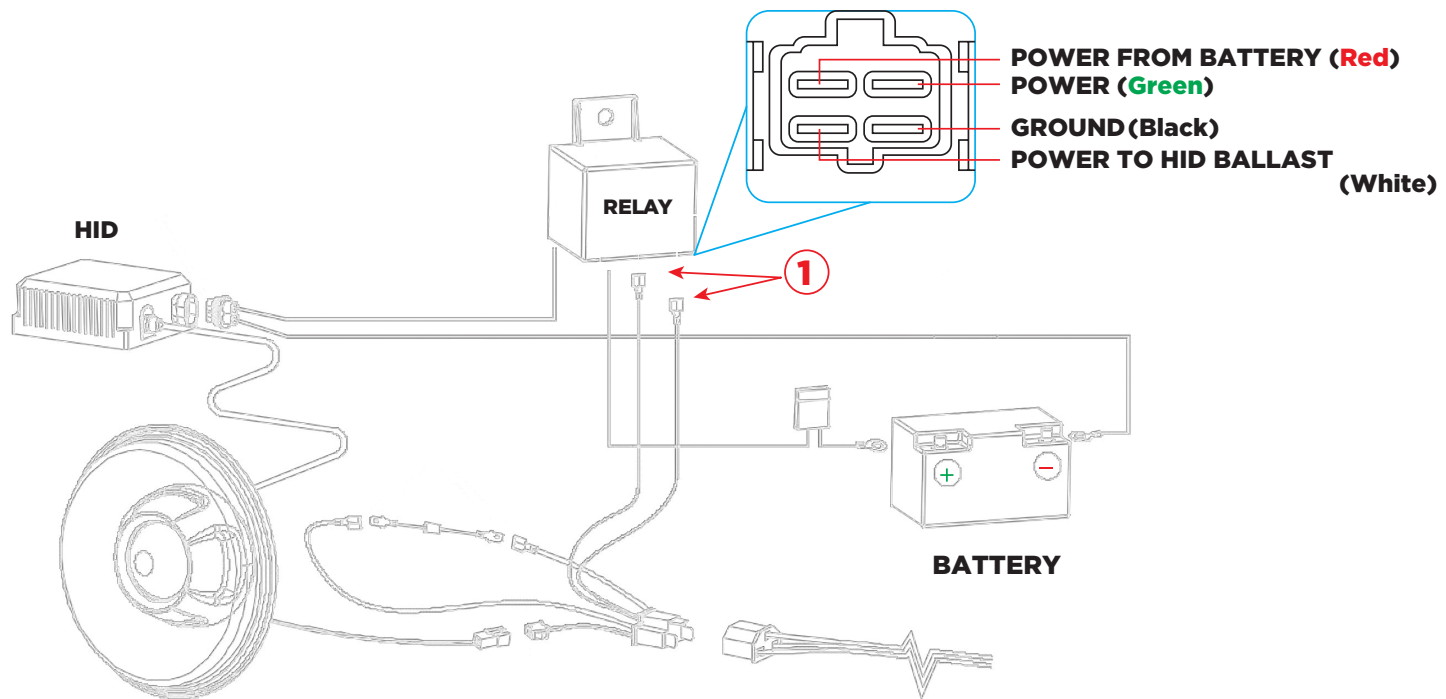
Make sure they are fully in contact with a clean metal surface.



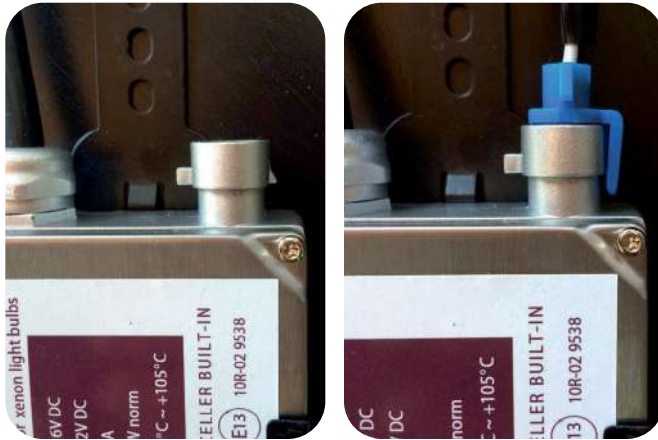
Merging your H4-H1 Adapter and Dapper Lighting Relay Harness

Locate the black relay and connect with white 4-slot connector. Repeat on other side.

Wiring Diagram



Locate the black and green wires from the H4-H1 Adapter. Plug the green wire's spade terminal into Power (green) located on the relay connector (Part #8). Plug the black wire's spade terminal into Ground (black, below power) located on the relay connector. Repeat on other side.



Hooking Up Ballasts

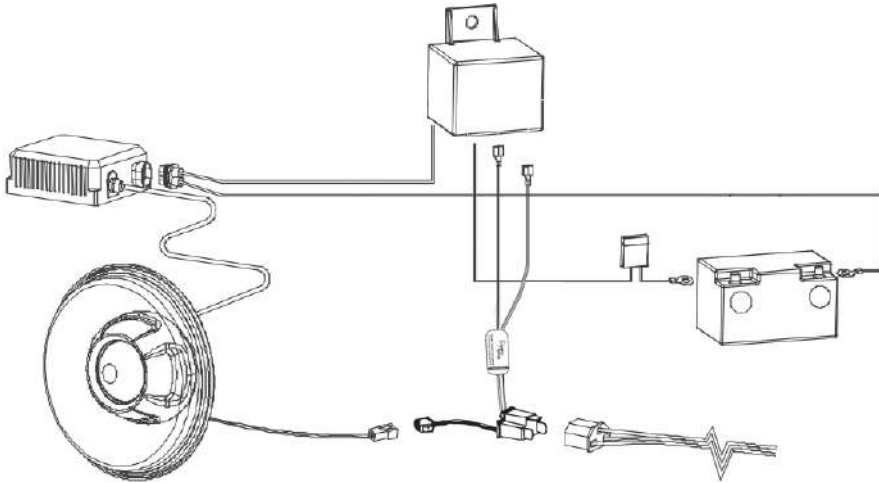
Locate the HID ballast (Part #6) and the blue plug located on the Dapper Lighting Relay Harness (Part #9).

There are two notches located at the base of the ballast socket. One is square shaped and the other is triangle shaped.

Plug the blue connector in with the locking tab on the triangle notch.

PCU HARNESS

For use with Harness Part Number:
H4H1ADS

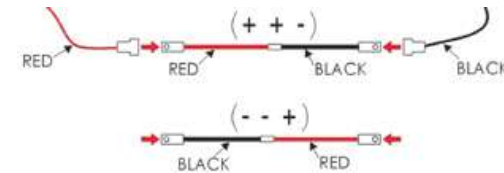
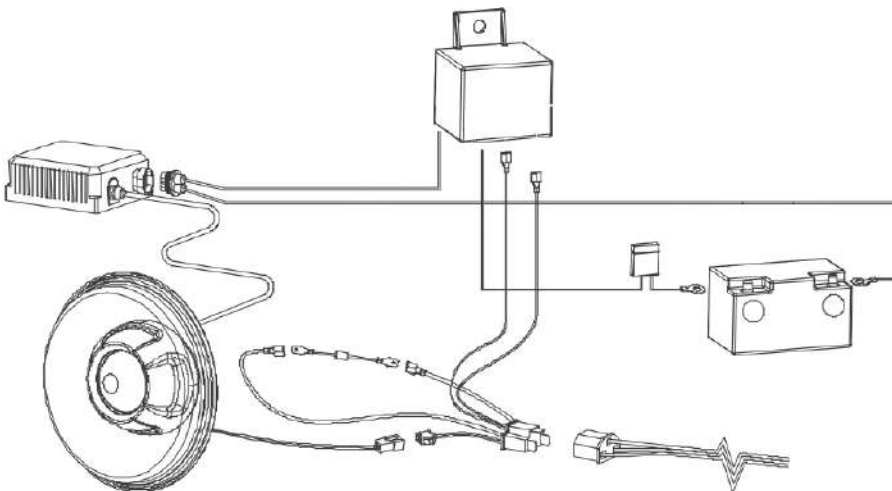


Note:

Your Sevens feature our Power Control Unit (PCU) which is an automated headlight control system module and no longer needs a diode. Please follow the guides accordingly and contact us if you have any questions.

DIODE HARNESS

For use with Harness Part Number:
H4H1AD



In some cases, you may need to switch the polarity on the diodes for your high/low to work properly. If that is the case, you must switch the polarity to (red black/ red black). Try your low and high beams again. If there is a problem, check your connections and contact our customer support team.

Testing Your Headlights



Test Low Beams

Reconnect your battery. Turn on your vehicle's auxiliary power. Flip on your headlights and see if the low beam is working as it should be. If the low beam lights are NOT working, double check that you have good connections and correct polarity on all parts of the harness. If you are still having issues, please contact a Dapper Lighting Technician.

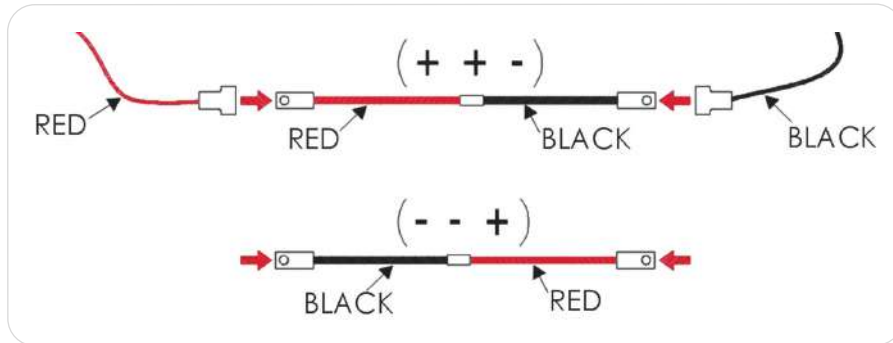


Test High Beams

Turn on your high beams and check for a change in output pattern. Switch between both low and high beams several times to make sure you have a good connection.

Warning:

If your headlight shuts off while turning on high beams, refer to the next page.



Diode Polarity

In some cases, you may need to switch the polarity on the diodes for your high/low to work properly.

If this is the case, you must switch the polarity of your small black/red diode (Part #3) to (red black / red black). Try your low and high beams again.

If this works, move on to the next step. If you are still having issues, please double check all of your connections. If you are still having issues, please contact a Dapper Lighting Technician before moving on.

Mounting Ballasts and Wiring

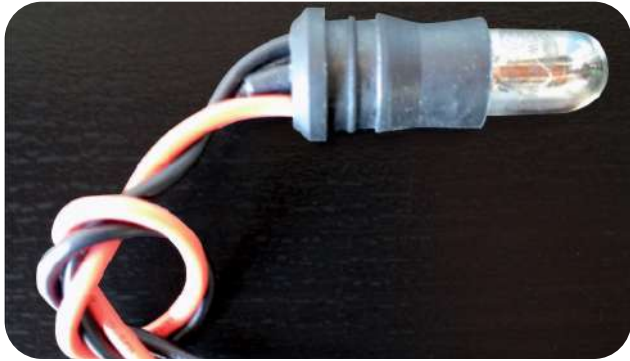
Now that you have your Dapper Lighting Universal Projector HID Kit configured correctly and have tested to make sure your low and high beams work, it's time to secure wiring and ballasts.

Ballast Fastening

Not all cars use the same ballast mounting points or wiring paths. Because of this, you will be able to choose where you run wires and mount your ballasts. We have included metal brackets, double sided tape, and zip ties (Part #8) to help with the installation.

Warning:

Fasten your ballasts and wires to your engine bay in an area away from any moving parts. If you have flip up headlights, be sure to check for clearance or potential areas of contact/impingement.



City/Running Light T10 Bulb

City Lights/Running Lights/ Halo and Angel Eyes

Most Dapper Lighting Headlights come with either a built in city/running lights below the projector or a built in halo/angel eye around the projector.

These do NOT come pre-wired and are open for different uses.

You can wire them up to turn signals, parking lights, or leave them as they are.

For the city/running lights, the halogen T10 bulbs included can also be upgraded to Dapper Lighting LED T10 Bulbs (Dapper Lighting SKU #T105SMD).

Halo/angel eyes cannot be upgraded at this time.



HEADLIGHT AIMING INSTRUCTIONS

The bright light produced by projector headlights can create a dangerous situation if the headlights are not properly aimed. When projector headlights are aimed too high, they can blind oncoming traffic. If they are aimed too low, road visibility is impaired. Achieving precise headlight alignment is simple and does not require professional installation. Just follow these steps to calibrate the beam pattern.

Here's what you'll need:

- Flat parking surface
- Vertical surface
- Owner's manual
- Measuring tape
- Screwdriver
- Carpenter's level
- Masking tape

STEP 1:

First you'll need a smooth vertical surface you can project your lights onto. Park the car so that it's directly facing the surface and the front bumper is about 5 feet away.

STEP 2:

Make sure your vehicle is level. This is where a carpenter's level comes in handy. If there are heavy items in the trunk, remove them.

STEP 3:

Locate the adjusting screws of the headlights on the back of the housing assembly.

There are horizontal and vertical screws which have small spring behind them.

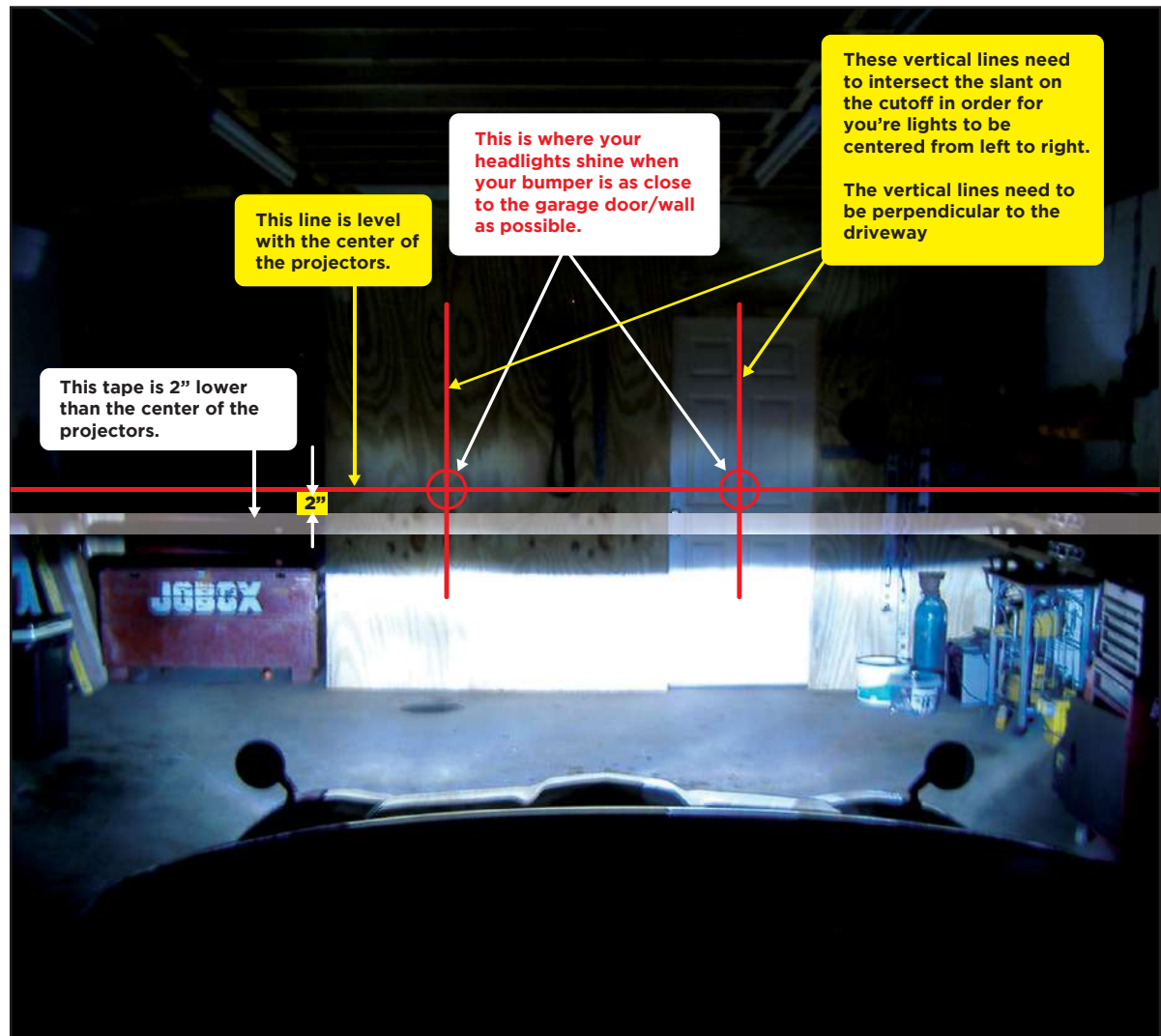
Typically, one of the screws is on the top of the housing assembly, while the other screw is on the inside edge.

STEP 4:

Mark the horizontal centerlines of the lights on the wall using a masking tape.

Mark the vertical centerline for each light as well.

The marking will tell you where exactly the headlights should be centered.



STEP 5:

Mark two more spots 2" below the spots you first marked.

STEP 6:

Back up the vehicle 20 feet so that it is 25 feet away from the vertical surface. Check to see if the cutoff point is directly in between the two marks you have made.

STEP 7:

If your headlight cutoff is not in between the two markings, the headlights need to be realigned. To do so, use the adjustment screws on the rear bracket of each headlamp.

Turning the top adjusting screws in a clockwise direction will raise the beam while counterclockwise turn will lower it. Turning the side adjuster screws will adjust the lights to the left or right.

Continue the adjustments until the light beams are even. Have the lights on while you are doing this. Make the proper adjustments so that the cutoff is level and falls in between the spots you have marked.

You may need a special screwdriver for your vehicle model.

Troubleshooting & FAQ's

My headlights won't turn on, what's the problem?

Begin at one end of the harness and check all of your connections. Often enough, the issue is usually a plug that isn't securely installed. If you are still having issues, double check your vehicle harness and fuses.

Older vehicles have more delicate headlight harnesses and may not be supplying the correct voltage or output designed from the factory.

Verify that your vehicle is putting out at least 12V to the headlight plugs. Contact a Dapper Lighting Technician if you are still having wiring issues.

My headlights don't fit, what should I do?

Not all headlight buckets are created equally. You may need to file down 1, 2, or 3 of the headlight tabs and the city light bracket to get your headlamps to fit tightly.

They should fit flush with the bracket and headlight rings. Contact a Dapper Lighting Technician if you are still having fitment issues.

My Dapper Lighting Harness doesn't plug into my OEM headlight plug. Help!

You may need an adapter depending on your specific vehicle. Here are the common adapters and vehicle types:

Hummer H2: 9007 to H4 (Dapper Lighting SKU #9007H4AD)

Jeep Wrangler: H13 to H4 (Dapper Lighting SKU #H13H4AD)

Contact a Dapper Lighting Representative if you do not see the wiring adapter you need listed.

The bulb wires aren't long enough (from the ballast). What can I do?

Some vehicles may need an extension harness if the ballasts are mounted farther than 2FT from the headlights. You will need Amp Extensions (Dapper Lighting SKU #AMPEXT)

The blue high/low wires from the headlight aren't long enough. Should I lengthen them?

Some vehicles may need a high/low extension depending on where the harness is installed (Dapper Lighting SKU #HLEXT). It is recommended to use Dapper Lighting wiring to ensure proper function.

My headlights are amazing!

You mean they're Dapper? We agree. Send us your photos at support@dapperlighting.com for a chance to be featured.