

This product is warranted for replacement with a new product or repair of original (defective part(s) only) free of charge for 1 year from the date of purchase. New Product or repair will be at the manufacturers discretion after inspection.

- Loss or damage to the product due to theft or any other reason other than manufacture defect is not covered by the warranty.
- The following will not be covered by the warranty during the warranty or thereafter:
 1. Misuse of the product leading to damage or trouble.
 2. Damages/troubles caused by abuse or carelessness.
 3. Damages/troubles occurring from collision, rollover or any other accident.
 4. Damages/troubles occurring from deficient maintenance or storage.
 5. Damages/troubles occurring from illegal or unauthorized modification or repair to the product.
 6. Damages/troubles occurring from fires, floods, earthquakes, lightning strikes, or any other natural calamity.
 7. Visual changes (color fades) due to the aging of the product.
 8. Warranty claims without proof of purchase (including date) from the original Dealer.
 9. This warranty does not cover articles of consumption such as bulbs.
 10. This warranty does not cover other issues that are related to the above.
 11. FET in no way warrants any related Original Equipment Manufactured parts that may be affected by the CATZ ZETA system. (Such as factory original wire harness or electrical systems, alternators, headlight bulbs or housings etc.)
 12. Wiring must be rated at least 10 AMPS and protected with a 10 AMP fuse. (10 Amp per Ballast Unit including Bulb)
- In case and times when there are differences between the opinions of whether the situation is under warranty or not between consumers and FET, disposal and decisions will be made under fair examination by FET. Thank you for your understanding.
- Regardless to whether the product was repaired under warranty, the warranty term will not change from the original date of purchase in any case.
- This warranty on your CATZ ZETA system is effective in the USA only. (Products purchased inside the USA only)

Catz Zeta 00 (zero Two) product features

- Die-cast Aluminum body with side protectors. High quality waterproof construction. Catz design allows for the best possible heat dissipation and durability.
- Initial start up current, which is the largest cause of bulb life shortage is designed and controlled to climb at a gentle slope to lessen the burden on the bulb resulting in both brightness and durability at the same time. You may experience seeing some undulation or waviness in the beam pattern directly after start up. However, after the system is on for a few minutes the undulation will stop and the final boost will be at its maximum efficiency.
The system will manage both the initial start up current as well as the regular running current.
- The management of current results in a brighter and whiter light emitting from your bulbs. When used with an efficient beam pattern effective headlight, the amount of increased output is about 70%. Therefore since your original output from the factory is 100% the total output from your lights with the CATZ ZETA system is 170%!
- If the voltage entering the CATZ ZETA system drops below 10 Volts due to a low battery or weakening of the charging system, the CATZ ZETA system has a protective circuit that automatically shuts off the boost and reverts back to normal lighting. In any case where one bulb burns out, it controls the current so that the voltage is not transferred to the other bulb.
- When passing or other situations where there is a split second the hi and low beams are turned on at the same time, the voltage passes through a voltage regulator reducing the voltage back down to a normal level again. This is done for the durability of your light bulbs.
- You can always experience the boost up after approximately 1 second after each high beam / low beam is switched on. (Only if the low-beams are not on at the same time as the high beams)
- If the low beams and high beams are on at the same time, the system automatically reduces the voltage back to the original for durability purposes. Each ZETA ballast is designed for boosting one bulb filament at a time.
- The variety of applications has been increased because of the automatic voltage reader.
- All electronic devices emit RF interference. This noise has been reduced in the CATZ ZETA 00.
- This system can work with any bulb type where the vehicle uses independent fuses for High beams and Low Beams by easily reconnecting the fuses. (Proper grounding is imperative)
- For vehicles, which turn the Hi Beams and Low Beams on at the same time, you will experience one or both sets of bulbs being on at normal power during that time depending on the fuse set up of your vehicle. If more than two filaments draw power, the ZETA automatically reverts to regular power.

First of all,

Thank you for your purchase of FET CATZ ZETA 00 system.

This instruction manual has information on how to install the system and also notes of how to use the product. Please make sure that you read this manual to insure correct installation and handling of the product.

This instruction manual also serves as a written warranty. Please store this manual carefully and when necessary, please use this as a reference.

Incorrect installation of this product is extremely dangerous. Please make sure that you understand the areas, which are marked with the following marks:

! = If not obeyed, could lead to death or serious injuries.

C = If not obeyed, could lead to injuries or damage to the vehicle.

Warning

! = It is very dangerous to mount the ZETA ballasts or wiring harness where they may interfere with the brake, clutch, accelerator or any other functional pedals, steering column or any other moving parts that will affect your driving. Please make sure that the ballasts and wiring are placed well away from these areas.

! = Do not take apart or modify the CATZ ZETA system for any reason. When taken apart or modified, there is a possibility of electric shock or fire. Please do not use the bulbs of higher wattage than specified. (60W/55W)

! = When replacing bulbs, make sure that the bulbs are well cooled before replacing them. Also, make sure not to touch the glass. This may cause burns or blow out of the bulb and sometimes, even a bulb explosion.

C = Regarding colored bulbs, please use the CATZ bulb series only. These bulbs are specially designed to withstand the boost from the ZETA system. Use of other bulbs not designed for the ZETA system may cause damage to the system itself or to the headlight equipment due to blow out or pre-mature bulb failure. Exchanging CATZ bulbs for other brands is not possible and will never be warranted in any case if other brand name or non brand name bulbs are used. FET will not warrant any part of the vehicle that is damaged as a result of using inferior bulbs. An OEM Factory 60/55W bulb with no coating on them is acceptable.

C = This system is designed based on conditions that the vehicles lighting equipment and electrical system is not modified in any way. Vehicles equipped with automatic light controlling systems or other systems or modifications that are similar in nature to this system may result in the failure of the ZETA system

and/or a higher risk of damaging the vehicle. Please use the CATZ ZETA system after the vehicle is returned to original OEM conditions. Warranty is not valid for trouble or damages resulting from the mis-use of the ZETA system in combination with other light controlling systems. High power stereo equipment, electrical hydraulics and non-factory alarm systems may also fall into this category.

C = This system is not designed to fit vehicles without independent fuses for switching between hi-beams and low-beams. In other words, it is designed for cars that have a total of four fuses. (Two for low beams and two for high beams)

If it has two for low beams and one for high beams, you will not be able to use it on low beams.

C = This system is designed based on the condition that the vehicle does have INDEPENDENT fuses for switching from low beams to high beams. It is not designed for vehicles that do not have independent fuses for switching from high beams to low beams, however, you could still use it on just the low beams if they are independently fused and then just not connect the high beams if they are fused together on one fuse.

C = This system is designed based on condition that the vehicles lighting equipment wiring is not modified in any way. Vehicles equipped with automatic light reducing systems or systems (common in Japan) or modifications that are similar to this system may not only result in failure of the ZETA system, but also may cause a risk of vehicle damage product damage or both. Please install the ZETA system only after such modifications have been returned to normal conditions. Warranty is not valid for trouble or damages resulting from the use with light reducing systems.

C = This system is designed for 12V vehicles only. Do not use on vehicles other than 12V or for any other purposes.

C = Do not use on HID systems. (High Intensity Discharge) Warranty is not valid when used in combination with HID systems.

C = Due to the low durability of OEM resin position lamps, this system should not be used for that purpose.

C = In some cases the original headlight housing may not be able to withstand higher heat temperatures. The CATZ ZETA system is a performance part for your headlights and FET cannot warranty any damage that could occur to your headlight assembly because of higher heat, no more than an after market turbo charger company will warrant a factory engine that comes with your car. If you have resin headlight housings or double lens construction headlamp assemblies it is:

advisable to ask the manufacturer about how much heat their housings can take to make a determination as to whether you can use the CATZ ZETA system at all.

C = The system is made exclusively for automobiles and can not be used on motorcycles. Use on a motorcycle will cause inconvenience in driving due to low battery capacity. The probable result is that the system would continually boost and shut down, boost and shut down etc.

C = Professional installation and wiring is recommended for all CATZ ZETA systems.

- Make sure that this instruction manual is kept stored in the car for reviewing. Please make sure to include the instruction manual if you sell your car with the CATZ ZETA system in it to the new owner.

Tools necessary for installation:

General tools, wiring tools and a volt/ohm meter.

Important warnings when installing

Remove the (-) minus cable from the battery terminal before installation.

Make sure the connector terminals are firmly connected. Do not attempt to modify or change them in any way.

Secure the ballasts and all other parts and wiring away from all moving parts in your vehicle. (Fans, retractable lights etc.)

When mounting the unit or wiring inside the driving compartment, make sure to avoid areas such as the brake, clutch, accelerator, or any other functional pedals. Please make sure to mount the ballasts and wiring securely to an area where they do not interfere with any part of your driving.

When mounting the ballasts and wiring inside the driving compartment, also avoid moving areas such as movable seats, seat belts or the like. Mount all parts of the ZETA system away from other moving parts securely.

Installation Procedures:

1. Turn off engine and remove the (-) minus cable from the battery. (as shown) Remove the female connector attached to the bulb terminals on the light. (As Shown)

2. Refer to your vehicles owners manual to locate the fuse box.

C = The location, size and shape of the fuse box varies from vehicle to vehicle.

C = If you can not locate the fuse box, it is recommended that you consult installation from your local dealer.

C = After the engine is turned off, the engine compartment is extremely hot and dangerous. Please make sure to start installation after the engine

compartment and components have cooled down.

3. After reviewing the fuse chart in the owner's manual, take out the low beam fuses and note the AMP amount on the fuses. Then take the high beam fuses out and note the AMP amount on those fuses. (For best results, you should have a total of four fuses from your L/R low beams and high beams)
4. Place the fuses taken out of the vehicle fuse box and put the low beam fuses into the Green wire fuse line holder and put the hi beam fuses into the Red wire fuse line holder.

C = If the fuses are 7A fuses, replace them with 10A fuses.

5. Make sure to observe polarity and place the fuse type connector of the CATZ ZETA 00 system into the fuse box in replacement of the original fuses.

a.) Green Line (+) Input / Black line (+) ZETA Enhanced Output connector should go into the low beam.

b.) Red Line (+) Input / White Line (+) ZETA Enhanced Output connector should go into the high beam.

C = The fuse type connectors do have polarity. Please make sure to observe polarity of the fuses before you install them. Green and Red wires are (+) positive 12VDC Inputs and the Black and White wires are (+) ZETA Enhanced Outputs.

C = If your vehicle has only one fuse for the high beams, the ZETA will not work on your high beams at all. Simply do not connect the Red Line / White line wires and use the ZETA system as normal for the low beams only.

C = Please note that the fuse connectors are each specified for hi beam and low beam.

C = Make sure the connection of the connectors are firm and secure.

6. Attach very securely the ground wire from the CATZ ZETA 00 to a part of the vehicle that you are sure is a good ground. (The ZETA will not operate with out a good ground)

C = A maximum amount of 20A will flow into the ground. If placed inside the drivers compartment, make sure to use the anchor bolts used to affix them securely.

7. After doing one side of the vehicle, repeat steps #3 to #6 for the lights on the other side of the vehicle.

C = Make sure that the fuse type connectors are connected to the hi and low beam per side (left and right)

Bulb Replacement

If you separately purchased a pair of FET CATZ bulb series, please change the bulbs out at this time.

If your vehicle is already equipped with CATZ bulbs, proceed to "System Check"

(It is extremely important to use CATZ bulbs whenever it is possible or the original factory bulbs) We will not warranty any bulbs that are not CATZ series.

Do not use high wattage bulbs with the ZETA system. Serious damage may occur. Standard Wattage bulbs are listed in your vehicles owners' manual. (Typically, 55W low/60W high)

C = Make sure that the bulbs are well cooled before attempting to change them. Replacement methods vary from vehicle to vehicle. Please refer to the owners manual for instructions.

8. Take out the original bulbs and keep them stored in your vehicle with out touching or damaging the glass. You can keep them in the CATZ box if you like.

C = We recommend using "Permatex" or any other brand of dielectric compound on all terminals. This keeps the terminals free of corrosion

and

also helps with electrical spikes etc. (Available at most any auto parts supply store)

9. Put the CATZ bulb back into the housing. (Reverse of # 8)

C = Do not touch the glass capsule of the bulb. Handle the bulb from the metal base of the bulb. Skin oils can cause a hot spot to occur resulting

in

pre-mature bulb failure or blow out of the bulb.

C = If you touch the bulb with your skin, please use a non-filament cloth and de-natured alcohol to clean it. Make sure it is dry and there is no foreign substance on the glass capsule before installing.

10. Do the same on the opposite side.

C = Make sure that the base of the bulb firmly secured.

System Check

Please check and make sure that the system operates correctly.

C = Check to make sure that the installation is complete.

C = For Vehicles with warning lights about the headlights, the warning light may stay on, however it is very rare. If this does occur, they problem may be solved using either a mechanical or electronic variable load flasher. (Also available at most auto parts stores) Again, this is very uncommon.

1. Make sure and check that none of the wiring or any of the ZETA ballast units are interfering with any moving parts in the engine compartment before you start the vehicle.
2. Attach the (-) minus cable to the battery and start the engine.

C = Make sure that none of the wiring is interfering with the fan belts of electric fans etc.

C = Avoid securing wires and ZETA ballasts to an area in the engine compartment that has high heat. Try to mount all parts to a vented area if at all possible.

C = If the ZETA ballast units are mounted on an unstable area or mounted insecurely, they may fall out due to road vibration and interfere with the fan or belts etc. Make sure they are mounted in a secure appropriate place.

3. Turn the headlight (low beam) on and confirm that the system activates and light is enhanced within approximately 1 second after your lights come on. If you see the light power boost up, the system is working properly.

*In case there is no change in the amount of light being projected, check the fuse box of the vehicle and check the color of the wires running from it (GRN (+ IN) and BLK (+ OUT)). If the connector is placed incorrectly, pull out and replace the other way as shown. (You must observe polarity)

4. Turn on your high beams. If your car has high beams that work independently of the low beams, you should see the boost of power work on the high beams as well. If the high beams work in parallel with the low beams, the ZETA system is designed to shut off and will only work with your low beams. (However, your high beams will work as normal)
5. If your vehicle has four fuses that work independently, both the high beams and low beams should have boost (unless all 4 lights come on at the same time) If they are independent and the hi beams do not get boost, please check the fuse box of the vehicle and check the color of the wires running from it. (RED (+) and WHT (-)). If the connector is placed incorrectly, pull out and replace the other way (as shown). (You must observe polarity)

C = In case the battery is low of there is a problem with the alternator, the system will not operate correctly.

Info. When the battery voltage is under 10V, the boost will automatically be cancelled and the ZETA will activate the light as a normal headlight only.

C = The right and left may not enhance (boost up) at exactly the same time as that is the normal flow of electrical pattern of your vehicles lighting system.

In any case, it is normal and is not defective and both lights will have the boost activated within 1-2 seconds.

Mounting the ZETA Ballast units.

After confirmation that the units operate correctly, using the brackets and/or tie straps included in your kit, mount the units in the engine compartment securely.

C = This unit is waterproof, but try to avoid areas where the unit may be exposed to water. Please also make sure that the wiring does not interfere with the fan or other moving parts or is caught in the hood when securing.

C = When the fuse box is located inside the engine room, please make sure that the cover of the fuse box is firmly and correctly secured.

C = For vehicles that have a fuse box cover, it is necessary to modify the cover so that it is waterproof.

C = When setting up this unit inside the compartment, please make sure to set the unit or wiring in an appropriate place where they do not interfere with the pedals or steering wheels or any other controlling systems.

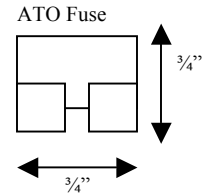
Sold Separately

Depending on the position where the ZETA ballast units are secured, the length of the wiring from the CATZ ZETA 00 system may not be long enough. In this case you will be able to purchase an extension harness sold separately.

Additional information

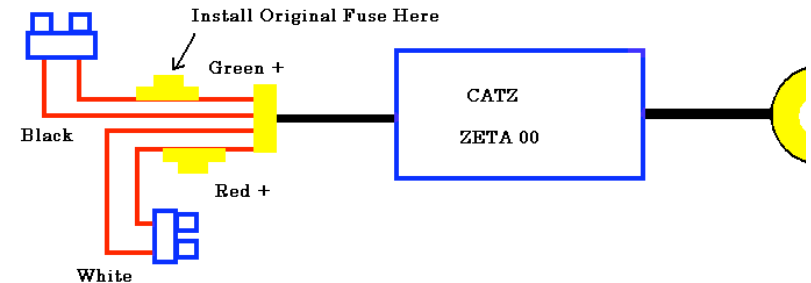
- When detaching the unit, please reverse installation procedures.
- Please store the detached system in its original box and avoid storage in high temperature areas or high humidity areas. When re-installing the system, it is highly recommended to check the connectors and cords etc. for deterioration or defect.
- When using this system, the bulb longevity may shorten. Warranty will be invalid when used with bulbs other than Catz bulbs. Please make sure to use Zeta specified bulbs whenever it is possible or standard factory OEM equipment bulbs.
- Car inspection
Catz Zeta 00 system is designed and produced to comply with vehicle inspection, but does not guarantee qualification of the inspection. Qualification may vary due to the inspecting agent or inspection facility. In this case, please detach the unit and change the bulbs to normal OEM bulbs and take then proceed with the inspections.

1. Remove ATO Fuse from the fuse panel. Low Beam Right.



2. Plug the ZETA00 Black / Green flying leads into the fuse panel. **MAKE SURE TO OBSERVE POLARITY.** Green must be on the (+) Feed side of the fuse. (Use Volt Meter)

3. Install the Fuse that was removed from the fuse panel (In Step 1) into the fuse holder on the ZETA00 See the diagram below. (NOTE you may need to upgrade the fuse to 10A on some vehicles.) ZETA needs 10 Amp Minimum.



4. Repeat steps 1 through 3 for the High Beam Right. Use the Red / White Flying Leads. **MAKE SURE TO OBSERVE POLARITY.** Red must be on the (+) Feed side of the fuse. (Use Volt Meter) If your vehicle does not have right and left for the High Beams, Disregard this step. You cannot use ZETA00 to power 2 filaments. **ZETA effect** will shut down and headlights will NOT be enhanced. They will work like before the ZETA was installed.
5. **Mount the Ballast** in a manner that it **will NOT interfere** with any moving parts or pedals. Failure to insure proper mounting and clearance from **all driver controls** will make your car dangerous to drive and could lead to an accident. Extension Leads are available if necessary.
6. **Ground the ZETA00** with the ground lug pictured above. NOTE: You must have a good ground (Use Volt Meter) or the ZETA will not operate. Please use Dielectric Compound on this connection as corrosion / faulty connection will cause the **ZETA effect** to shut down. We recommend Permatex LC0372 or equivalent.
7. Repeat from step 1 for the left side headlights.

Ideal Fuse Set-up: Total of 4 fuses for the headlight system. If your fuses are set up as below, and BOTH High and Low beams are **NOT** turned on at the same time, ZETA effect will enhance all Bulbs.

Low Beam R Low Beam L High Beam R High Beam L

OR:

Low/High Right Low/High Left

If your fuses are like the listing below, ZETA will only operate the low beams.

Low Beam R Low Beam L High Beam R and L

If your fuses are like the listing below, ZETA will NOT OPERATE.

Low Beam R and L High Beam R and L

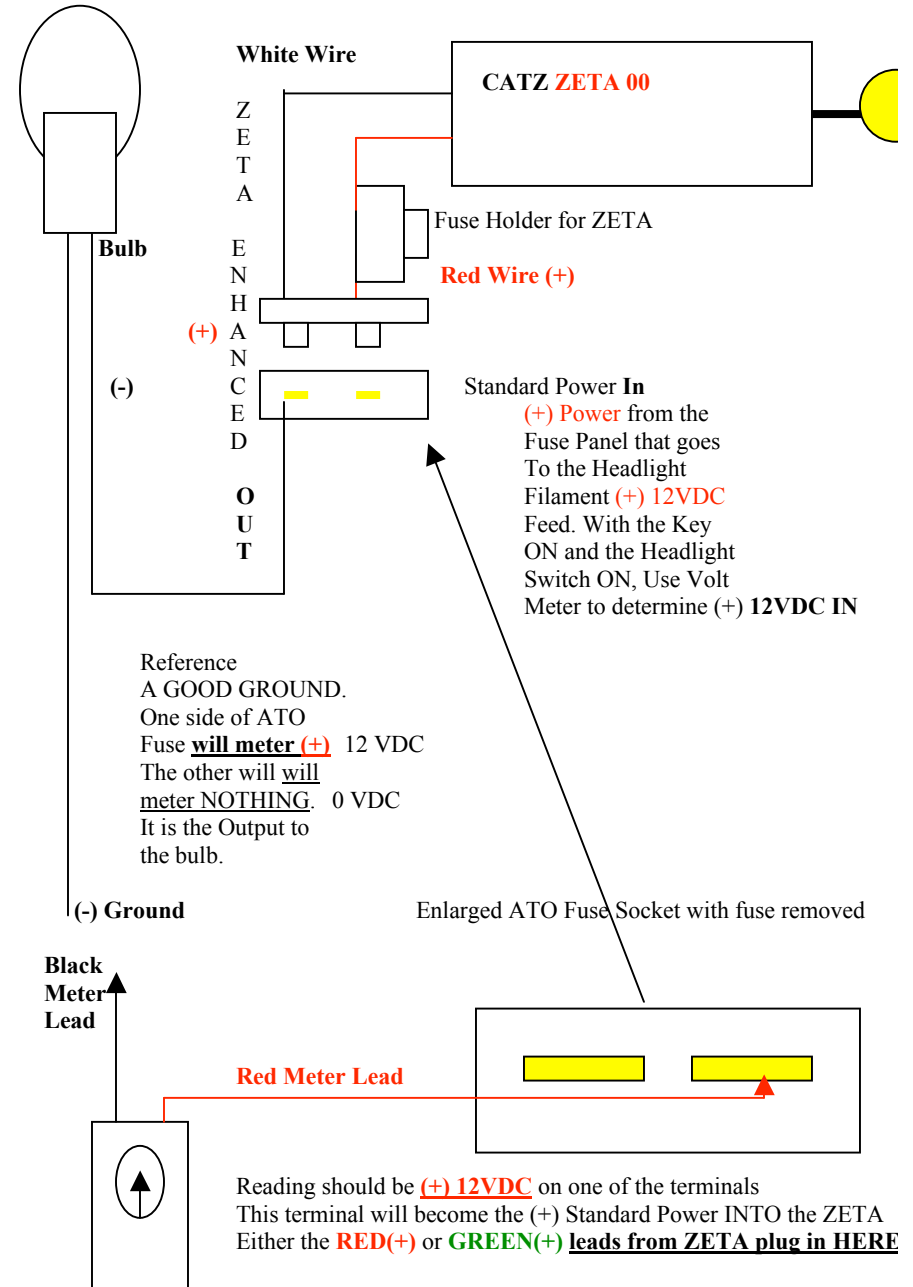
ZETA00 Rule: Each Ballast can only enhance 1 filament at a time. ONE Ballast.... ONE Filament.

This also applies to cars that turn BOTH High and LOW beams on at the same time.

ZETA enhancement will shut down; your headlights will operate in the NON ZETA Standard Factory mode.

NOTE: If the ZETA is asked to power 2 filaments, ONLY the ZETA Effect will shut down. Your headlights will operate as if the ZETA was not installed (Standard Bulb Brightness). The ZETA will also shut down if your Battery or Charging circuit becomes low. Your headlights will operate as if the ZETA was not installed (Standard Bulb Brightness).

ZETA Schematic and Translation from Standard to Enhanced
(Shown ONE FILAMENT ONLY)



Below are mock fuse box representations: ATO 3/4 blade fuses are what the ZETA kit has on the ends.

Completely Plug and Play for both high beams and lowbeams						
Windows	AC	Heat	Wipers	Rear W	Defog	Radio
Lowbeam Left	Lowbeam Right	High Beam Left	High Beam Right	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc

(One ballast plugs into the right and the other the left on both H & L Beams)

Plug and Play for Low beams and not high beams						
Windows	AC	Heat	Wipers	Rear W	Defog	Radio
Lowbeam Left	Lowbeam Right	High Beams (L&R)	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc

(One ballast plugs into the right and the other the left on L Beams and high beam wires are taped back and not used)

Must go to the headlight wires and splice in ATO inline fuse adaptors						
Windows	AC	Heat	Wipers	Rear W	Defog	Radio
Lowbeams (L&R)	etc	High Beams (L&R)	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc
etc	etc	etc	etc	etc	etc	etc

(Putting in ATO inline fuse adaptors is very simple. You are basically installing a fuse receptical between the Headlights and the alternator so you can plug the ZETA ballast into it. **See photo below of an ATO inline fuse adaptor.**)

If mini blade fuses are used, you can file the 3/4" ATO blades to fit or use the ATO inline fuse adaptors.

For ATO inline fuse adaptor application, splice in ATO fuse adaptor about 12" to 20" away from the headlight receptical (+) positive wire and plug the ZETA into it, mount the ballast and done.

