

## 2011-2013 KIA OPTIMA 2-WAY LED EYELINE KIT INSTALL

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### TOOLS/ITEMS YOU WILL NEED:

- 1 SET OF LED EYELINES
- (2) WIRE TAPS/POSI-TAPS
- (1) ADD-A-FUSE ADAPTER
- 3M ADHESIVE TAPE

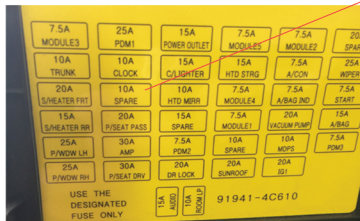
### OPTIONAL ITEMS:

- SOLDERING IRON
- SOLDER
- CABLE MANAGEMENT VELCRO/ZIP TIES



### STEP 1:

START BY ADDING THE FUSE TAP IN THE INDICATED FUSE UNDER THE DASHBOARD. IT IS MARKED SPARE, BUT THIS TURNS ON WITH THE IGNITION. YOU WILL CONNECT THE RED POWER WIRE ON THE KIT TO THIS POWER SOURCE.

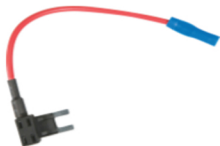


**STEP 2:**

RUN THE POWER WIRE THROUGH THE FIREWALL, USING THE GROMMET TO THE RIGHT OF THE MASTER CYLINDER. YOU CAN PUSH THE RUBBER GROMMET TO THE SIDE TO SLIDE THE WIRE THROUGH.

**STEP 3:**

PULL THE WIRE THROUGH INSIDE THE CABIN. THIS IS UNDER THE DASH, STEERING COLUMN TO THE RIGHT, PARKING BRAKE ASSEMBLY ON THE LEFT.

**STEP 4:**

REMOVE THE FUSE TAP INSTALLED IN STEP 1.

CONNECT THE POWER WIRE PULLED THROUGH THE FIREWALL TO THE END OF THE FUSE TAP.\*

RECONNECT THE FUSE TAP.

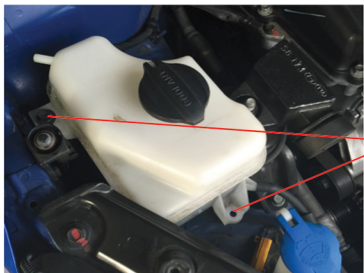
\*SOLDERING IS RECOMMENDED, CRIMP CONNECTIONS CAN COME LOOSE WHEN HITTING BUMPS. SECURE YOUR WIRES NEATLY!



## STEP 5:

CONNECT THE GROUND TO A GROUNDED BOLT IN THE ENGINE BAY. THIS ONE IS CONNECTED ON A BOLT BEHIND THE ENGINE BAY FUSE BOX.

\*TIP: SOLDERING THE END OF THE BARE WIRE WILL ENSURE A GOOD CONTACT WHEN IT IS SECURED UNDER A SCREW/BOLT.



## STEP 6:

MOVE THE COOLANT RESEVOIR OUT OF THE WAY. THIS WILL MAKE THE WIRING MUCH EASIER..

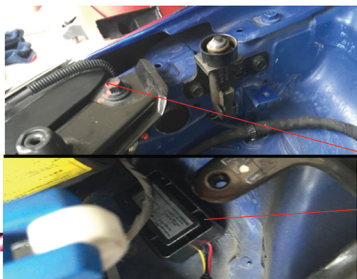
THERE ARE TWO 10MM BOLTS HOLDING IT IN PLACE. A SOCKET WITH AN EXTENSION IS RECOMMENDED.

THE HOSE PROVIDES ENOUGH SLACK FOR YOU TO SET IT OUT OF THE WAY UNTIL YOU ARE FINISHED.



## STEP 7:

ADD ADDITIONAL 3M DOUBLE-SIDED ADHESIVE TO SUPPLEMENT THE EXISTING ADHESIVE.



### STEP 8:

CAREFULLY APPLY THE LED EYELINES TO THE OUTSIDE OF THE HEADLIGHT ASSEMBLIES.

RUN THE WIRES AROUND THE BACK AS SHOWN HERE.

MOUNT BOTH MODULES ANYWHERE YOU CAN ON THE BARE METAL BELOW USING 3M ADHESIVE TAPE.

Pin 1	Pin 2	Pin 3	Pin 4
Pin 5	Pin 6	Pin 7	Pin 8



### STEP 9:

TAP INTO TURN SIGNALS (OPTIONAL)

IF YOU WANT TURN SIGNAL FUNCTIONALITY: REMOVE THE HARNESS FROM THE BACK OF THE HEADLIGHT ASSEMBLIES, PEEL BACK THE WIRE COVERING AND TAP THE YELLOW WIRES INTO PIN "1" ON BOTH SIDES. \*T-TAPS OR POSI-TAPS MAKE THIS A QUICK AND EASY CONNECTION

DRIVERS SIDE: BLUE WIRE  
PASSENGER SIDE: RED WIRE



### STEP 10:

RUN THE BLACK AND RED WIRES OVER TO THE PASSENGER SIDE MODULE TO PROVIDE POWER. HIDE/TUCK THE CABLE HOWEVER YOU CAN, SECURING IT NEATLY ALONG THE WAY.

CONNECT RED AND BLACK WIRES TO BOTH MODULES.

RE-INSTALL THE COOLANT RESEVOIR TANK.

VERIFY ALL CONNECTIONS AND GET READY TO TEST!



### STEP 11:

TEST THE INSTALLATION BY TURNING THE CAR'S IGNITION TO THE ON POSITION. THE EVELINES WILL LIGHT UP WHITE.

WHILE ON, ACTIVATE EACH TURN SIGNAL TO VERIFY CORRECT OPERATION.

### TROUBLESHOOTING:

THE LIGHTS DON'T COME ON WITH IGNITION:

- CHECK YOUR POWER CONNECTIONS, AT THE MODULES AND THE FUSE TAP.
- CHECK YOUR GROUND CONNECTION. IF THERE IS PAINT ON THE METAL YOU USE FOR THE GROUND, IT MAY NOT WORK.
- TRY ROTATING THE FUSE TAP 180 DEGREES IN THE FUSE SLOT

ONE OR BOTH OF THE TURN SIGNALS DO NOT FUNCTION:

- CHECK THE CONNECTIONS TO PIN 1 ON THE HEADLIGHT HARNESSSES.

HOW DO I TURN THEM OFF WHEN THE CAR IS ON?

- ADD ANY SWITCH IN LINE FROM THE FUSE TAP TO THE LED EVELINES TO TURN THEM ON/OFF AT WILL

QUESTIONS/CONCERNS?

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