**Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com**
9419 E US HWY 175, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364

# HID-X970-MA

## H.I.D. SYSTEM WARNING

- Do not stare directly into the light or shine directly into the eyes of another person as this may cause temporary loss of vision.
- Do not let water enter the case, while the light is both weather and water resistant, it is not designed to be submersible.
- Never disassemble the light as all parts must be factory serviced to insure proper operation.
- The auxiliary light is to be mounted on the vehicle only in a vertical, bottom-mounting or in a suspended position.
- Do not allow objects or skin to contact a hot lens because of burn risk.
- The auxiliary light must not adversely affect the performance of low beam, high beam, engine cooling or the driver's view.
- Before working on the auxiliary Xenon light: disconnect the negative terminal (-) from the battery. Make sure that the vehicle's electrical system is de-energized.
- Installation and lamp change may only be carried out by qualified or properly trained persons.
- Use the supplied wire harness for electrical installation.
- Before switching on the auxiliary light, the lens cover must be removed!

## NOTICE

- Completely read all instructions before installing.
- Consult your local or state regulatory agency regarding the use of auxiliary lighting.
- The placement of auxiliary lighting should not restrict airflow to the radiator or block headlamps, turn signals or parking lights.

## INSTALLING THE LIGHT

1. Disconnect the negative terminal (-) from the battery and wrap with electrical tape to prevent contact.
2. Select a suitable attachment location and then mark and drill the 11 mm diameter hole for mounting.
   **CAUTION:** Consult your vehicle owner's manual or manufacturer regarding location of airbag or other sensors near the mounting location.
3. Fit the additional headlamp with washer, spring washer, and nut.

## WIRING HARNESS INSTALLATION

The wiring harness is pre-assembled and fully insulated and sleeved.

1. Lay out wiring so that all connections (battery, relay, switch, & lights) will have more than sufficient length.

2. Find a suitable location to mount the relay on the battery side of the engine compartment. Make sure the mounting location is not exposed to water spray, excessive heat, or moving parts.
3. Attach both power supply wires (red) to the positive (+) battery terminal.
4. Connect the ground wire (black) to the vehicle chassis or the negative (-) battery terminal, connect the wiring to switch.
5. Locate an unused grommet on the firewall. If one cannot be found, drill a ½" hole with no obstructions on either side and away from moving parts and other wiring.
6. Feed the switch connector through the firewall and into the vehicle interior to the switch mounting location.
7. Select a suitable mounting location for the switch such as the dashboard or center console.
8. Clean and dry both the mounting surface and the back of the switch and use double sided adhesive pad to secure.
9. Plug the switch connector into the wiring harness and secure all loose wiring to ensure safe vehicle operation.
10. Feed the auxiliary light wiring to each light with the shorter length going to the light on the battery side.
11. Plug the power supply socket to each light and attach the ground wire (black) to the vehicle chassis.

## OPTIONAL LOW/HIGH BEAM CONNECTION

Some states require auxiliary lighting to be connected to low/high beam wiring so that they may only be used when your headlights are on. An additional benefit is to prevent battery draining in case the headlights are accidentally left on. If you choose not to do this you may connect directly to the positive terminal and your auxiliary lights will operate at any time using the switch.

- Feed the single (red) wire to the positive (+) low or high beam wire and attach using the blue wiretap connector.

## TURNING ON AND TESTING OPERATION

1. Remove electrical tape from the negative (-) terminal and re-connect onto the battery.
2. Turn on ignition switch and activate the auxiliary light switch.

**NOTE:** If you attached the optional connector to the low or high beam you will need to turn on your headlamps to that position before the auxiliary lamps will light.

If lamps do not light, check fuse(s) and all wiring connections.

Use wire ties to secure all loose wiring in the engine compartment, making sure all wiring is away from moving parts and excessive heat.

**CAUTION:** IT IS STRONGLY RECOMMENDED THAT ANTI-SEIZE BE USED ON ALL MOUNTING HARDWARE.