

Heated Door Mirror Kit with LED Turn Signals

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INSTRUCTION SHEET

Introduction

This mirror kit is designed to enhance the appearance of your Jeep. This kit can be used on all Wranglers, with half and full doors. Some models may require upper door hinges that are machined to accept the mirrors. The mirrors can be wired to operate with vehicle turn and/or parking lights. Installation and wiring processes may vary slightly based upon the model, year, and door type.



Figure 1. Kit includes one each of RIGHT and LEFT mirrors, all required wiring and hardware.

Contents

Right Mirror Assembly - Black or Chrome

Left Mirror Assembly - Black or Chrome

Hardware Package –Includes mounting hardware, wiring and connectors.

Procedure

The appearance, performance and durability of the installation of these mirrors will be determined by the work quality of the installer. The proper tools, a basic level of understanding and skill,

and a shop manual or wiring diagram will be beneficial.

Mirror Installation

The mirror assemblies bolt directly to the upper door hinges on half and full doors utilizing the same hole locations that held the OE mirrors. The mirrors can be installed on other models either by drilling and tapping the upper door hinges or installing a pair of upper door hinges that are already machined to accept mirrors. The kit can be installed in a number of possible mounting and wiring configurations, some more involved than others. The following installation was performed on a 1990 YJ.



Figure 2. There is no exposed wiring on the outside of the vehicle. This requires drilling holes in the doors and routing wires through the doors. Less exposed wiring provides a cleaner look with less chance of snags.

Figure 2 is of an installation that requires drilling several holes in each door. A no-drill installation is also possible if desired. A significant amount of wiring will be exposed though.



Figure 3. The first hole needs to be drilled in this location through the hinge and outer door.



Figure 4. This cut-away of a door shows the required location of the second hole. It was necessary to locate the hole nearer the inside of the door to avoid hitting the lower section of the window channel. The wire loom shows the desired wire routing.



Figure 5. The wires and loom can then be pulled through the door, and the mirror fastened to the door. Be sure to leave the wires long enough to provide for full door movement. Then install the provided male 4-pin plug and terminals. Wiring these plugs

into the system will make future door removal quick and easy.

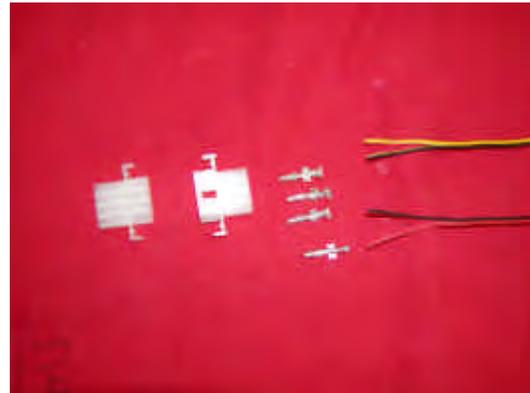


Figure 6. These are the plug assemblies. The male end is used on the mirror. The female end is used on the vehicle harness.



Figure 7. Locate and determine the wires needed. A wiring diagram and/or test light will be helpful.

Mirror Wiring

The mirror assemblies have two (2) wires that each contain two (2) conductors.

BLACK = Ground.

RED = Turn Signal.

Yellow = Parking Light.

These wires need to be integrated into the vehicle wiring harness. Plugs are included to allow for easy removal of the doors. A test light and/or manual will be helpful. The 1990 YJ wiring required the parking lights to be wired into the Blue wire on the headlight switch harness. LEFT turn to be wired into the

Gray/Black, RIGHT into the Brown, both on the turn signal switch harness. The colors and locations may be different on other vehicles. Use the test light to carefully test and locate the required wires.



Figure 8. Use the crimp-on splice connector and spade terminal to make the wiring connection. The RED (Turn) on the left mirror is being spliced into the necessary wire on the turn signal switch harness. The same splices were done for the remaining turn, and park wires.



Figure 9. Terminals were crimped onto the Black ground wires and then they were placed under existing screws in the metal dash.

Once these connections have been made the wires can be routed to the right and left sides of the vehicle; proper length can be determined, and the plugs can be installed. Make certain that both the male and female ends of the plugs are wired to correspond correctly.



Figure 10. The final installation steps. Be sure wires correspond on both plugs. Place wiring in the loom. Tuck plugs behind dash. Test all light functions.



Figure 11. The initial systems checks proved that all lighting functioned properly, and our Jeepin' buddies were impressed with the cool new looks.



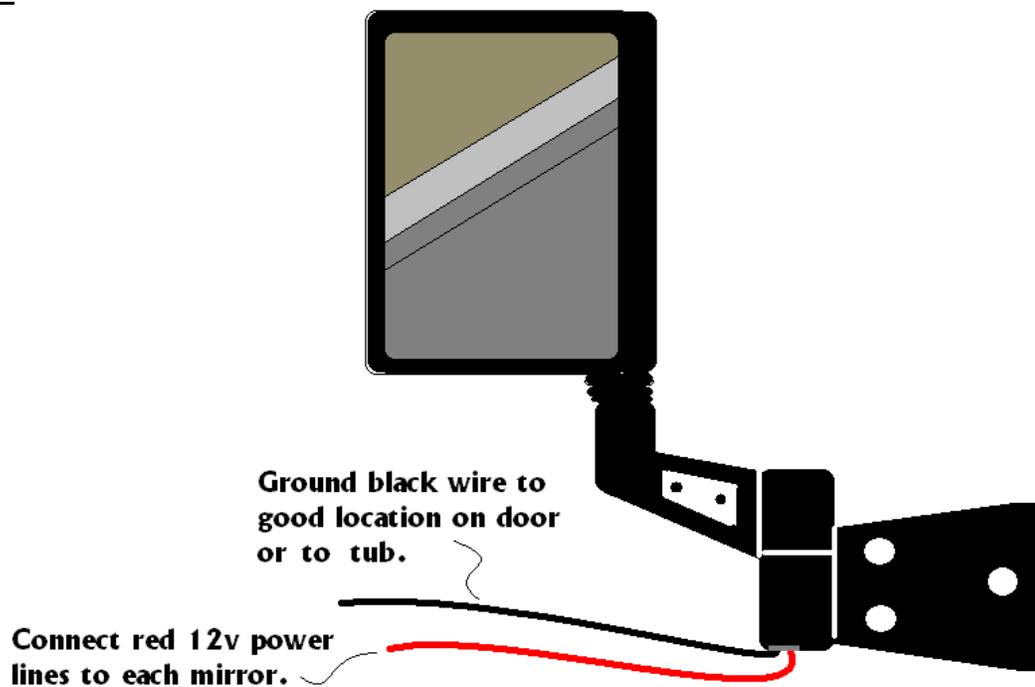
Heating element and Switch wiring instructions for Heated Mirror

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1. Locate the black negative lead wire and the red positive lead wires that exit from the bottom of the heated side mirror.
2. Connect the black wire to a good grounding point located near the doors on the tub of the Jeep®. This will need to be done for both sides. The best grounding points will be located on the tub.

The red wire will be connected to the 12V power lead coming from the supplied switch. (See Fig.1)

Fig.1

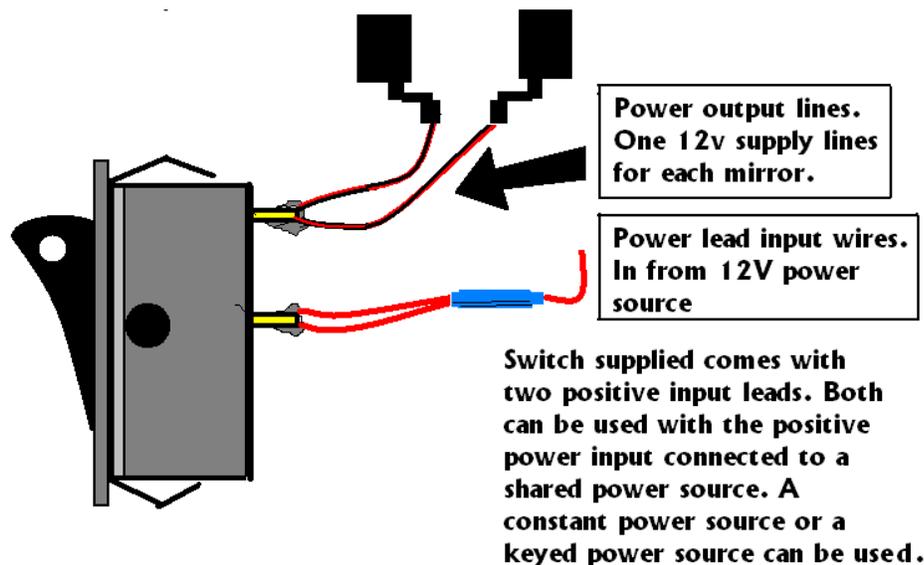


Switch wiring

3. Locate a good spot on your vehicles dash or console for the switch location.
All wires leading from the switch will need to be threaded through the mounting hole before any wire connections can be made.
4. The switch supplied comes from the factory with the red and black wires attached.
This was done for packaging and will need to be separated before proceeding with The installation.
The solid red wires will be connected to a 12V power source. This source can be a constant source or one that is supplied only when the ignition key is in the on position.

NOTE :Most vehicle fuse blocks will contain an extra 12v power source.

5. The two solid red power leads will need to be combined with the connectors supplied. (See Fig.2) The 12V supply from your Jeep® will need to be connected after the two wires have been joined.



5. Connect the two 12V output lines (black-red) wires to the red power leads at each mirrors base. Each mirror will need one power supply line. Extra wire has been supplied for any additional wiring needs.
6. To turn heated mirrors on the switch should be pressed with white button mark flush with switch base.

