

Quadratec® Automatic Power Mirror Movers for Jeep® Wrangler JK 2011-Current

US PATENT 9573526

Installation and Instruction Manual: Item #13125.023X



REQUIRED TOOLS:

Safety Glasses
3mm Hex Key (Supplied)
T40 Torx® Wrench (Supplied)
Phillips Screwdriver
T20 Torx® Driver
Non Marring Pry Tool Or Screwdriver
6mm Hex Wrench
17mm Socket & Ratchet

KIT CONTENTS LIST:

Mirror Movers with Heads (L&R)
Rubber Gaskets For Pillars (2)
Door Fill Plate With Bumper (2)
Vehicle Adapter Harness - Year Specific (2)
Cable-Ties (10)



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A Few Words About Product Safety:

Your Powered Automatic Mirror Movers are intended to enhance the utility and of your off road capable vehicle. Before installation, please take a moment to review the following safety

information and installation instructions. Important safety information is generally preceded by one of three signal words indicating the relative risk of injury. The signal words mean:

⚠ WARNING ⚠	a hazardous situation which, if not avoided, could result in death or serious injury. You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
⚠ CAUTION ⚠	a hazardous situation which, if not avoided, could result in minor or moderate injury. You CAN be moderately HURT and also may suffer property damage if you don't follow instructions.
NOTICE	Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your Quadratec® product or other property may result if you don't follow instructions.

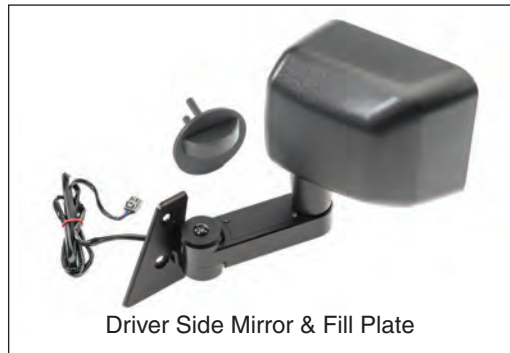
Before You Begin Installation:

Congratulations on your purchase of Powered Automatic Mirror Movers for your Wrangler JK. These custom fit mirrors have been designed for convenience and long life. Though constructed of only the finest materials, these mirrors must be maintained and cleaned to retain their looks while performing under the toughest conditions.

Thank you again for your purchase and let's start the installation process.

When unpacking, check to make sure all parts are included and not damaged due to shipping. If any part is missing or broken, please call us at Quadratec Customer Service at 800-745-6037 as soon as possible.

⚠ CAUTION ⚠	READ ALL SAFETY MESSAGES AND ALWAYS WEAR SAFETY GLASSES WHEN WORKING WITH TOOLS.
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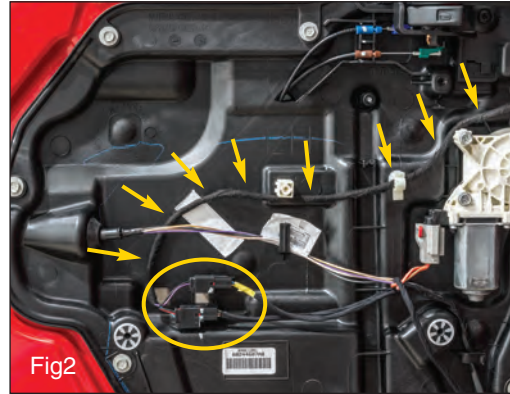


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Powered Automatic Mirror Movers: Installation



Put on safety glasses. In order to install your Quadratec Powered Automatic Mirror Movers you will need to remove your factory power mirrors. Start by opening your Jeep's driver's side door. Locate the inner door panel. You will need to remove this panel in order to disconnect your factory mirrors. Please consult our website for detailed instruction on door panel removal.



A helpful video guide is available at: www.quadratec.com/power-mirror-mover-install

With door panel removed, locate the power wires for the factory mirror, disconnect them and remove them from any retaining clips. Your connectors may vary depending on the year of your vehicle. (See FIG2)



Locate Two T40 Torx bolts on the inside door panel. Remove bolts with the supplied Torx wrench. Take care to support the mirror on the outside of door to prevent damaging factory mirror. Remove mirror. Retain factory bolts for installation of filler plates. Factory mirrors will



not be re-used. Reinstall the door panel. Locate the filler plate with bumper as shown in FIG4. The longer extension tube goes into the bottom hole on the door. Insert through door into the stock mirror location. Reinstall T40 Mirror Bolts into filler plate and tighten.



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Powered Automatic Mirror Movers: Installation



Locate the 6 T40 Torx bolts that hold on the windshield hinge plate. Remove all 6 bolts with supplied T40 Torx wrench. Carefully remove the hinge plate and set aside. Locate the Driver's Side Powered Mirror Mover with Wiring Harness.



You will now need to route the attached wire harness and connector behind vehicle's cowl as shown (Fig6). Due to manufacturing tolerances you may need to gently pry the panel gap apart using a non-marring pry tool or a flat blade screwdriver wrapped in tape.



Pull the wire all the way under the cowl and under the hood. Leave just enough harness exposed to allow for installation of the mirror mover. (Fig7)



Reinstall the factory hinge plate using the factory screws in the upper 4 holes. Snug using the supplied T40 Torx wrench. (Fig8)

The next few steps may be better accomplished with the help of a friend.



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Powered Automatic Mirror Movers: Installation



Route the harness wire in the machined recess of the mirror mover before installation as shown.



Place the two remaining factory screws through the mounting holes in the mirror mover and place the gasket on the backside of the mounting bracket as shown.



Tip the assembly into place and tighten the Torx bolts using the supplied T40 Torx wrench. Pull the excess harness wire from under the cowl so that it is not visible under the hinge plate or Mirror Mover Bracket. Repeat Mirror mover installation steps on the passenger side.



Wire harness routing and installation: Locate and remove the factory grommet shown in FIG12. Both the driver and passenger harnesses will pass through this hole in the firewall. Note: Factory Hardtop models use this grommet for rear washer fluid hose.



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Powered Automatic Mirror Movers: Installation



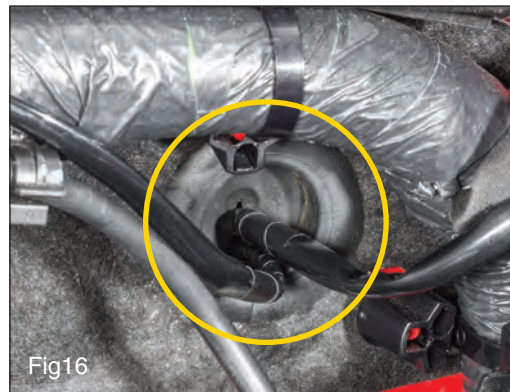
Route the Passenger harness along the factory loom at the back of the firewall as shown in FIG 13 and secure with the supplied cable ties. Next, route the drivers' harness to the hole in the firewall as



shown in FIG14 and secure with a supplied cable tie. Pass both the connectors and harnesses through the hole in the firewall and down into the drivers foot well.



Slit the factory grommet with a razor knife as shown.



Pass the new wires through the slit in the grommet. Reinstall the grommet in the firewall. (FIG16)

Move to the inside of the vehicle for the rest of the harness installation.



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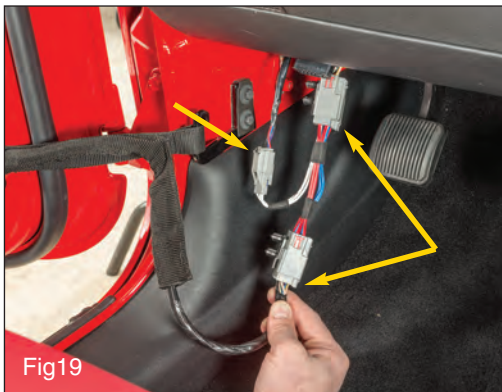
Powered Automatic Mirror Movers: Installation



Disconnect the factory door harness connector from underneath the dash in the left of the driver's footwell as shown in FIG17.



Locate the other end of the harness and remove it from its mounting location by pulling the "Christmas tree clips" free of the mounting holes. See FIG18.



Install the supplied adapter harness between the factory connectors as shown and connect the Drivers side mirror mover harness as shown in FIG19.

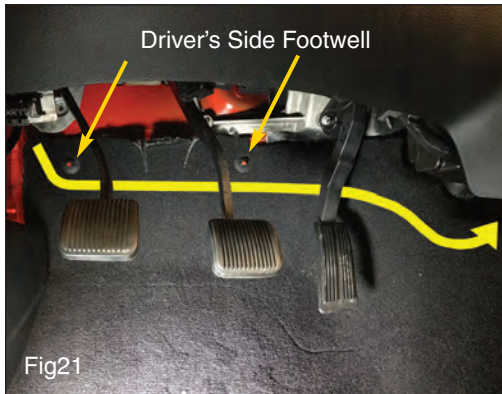


Locate the harness back under the dash and install the "Christmas tree connectors" on the adapter harness back into the factory mounting holes. Secure all wiring out of the way with the supplied zip ties. Take special care not to interfere with operation of any of the vehicle pedals or controls.

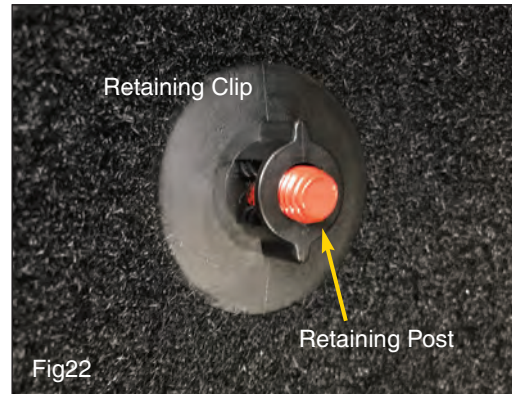


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Powered Automatic Mirror Movers: Installation



Now route the passenger side mirror mover harness from the driver's side footwell over to the passenger side footwell. (Fig21) Remove carpet retaining clips and pass the harness behind the carpet and underneath the retaining studs. Continue to route the harness



under the carpet and behind the center console. Reinstall the factory carpet and the carpet retaining clips (Fig22). **DO NOT allow wiring harness or carpet to interfere with operation of pedals. Such interference could cause loss of vehicle control.**

⚠ WARNING ⚠

RISK OF DEATH: SECURE WIRING HARNESES TO AVOID INTERFERENCE WITH VEHICLE PEDALS. FAILURE TO DO SO MAY CAUSE LOSS OF VEHICLE CONTROL.



Continue routing the wires behind the carpet and under the retaining posts in the passenger footwell as shown in FIG23.

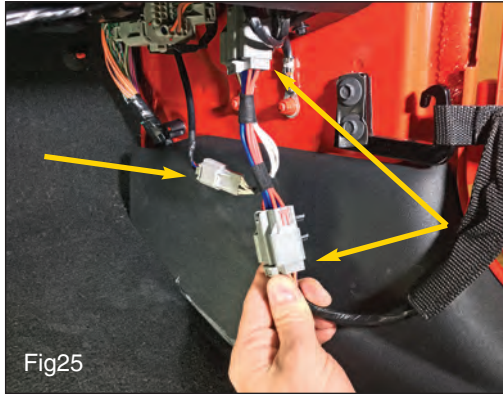


Disconnect the passenger side Factory door connector. Locate the other end of the harness & remove it from its mounting location by pulling the "Christmas tree clips" free of the mounting holes.



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Powered Automatic Mirror Movers: Installation



Install the supplied adapter harness between the factory connectors as shown and connect the Passenger's side mirror mover harness as shown in FIG25.



Now locate the harness back under the dash and install the "Christmas tree connectors" on the adapter harness back into the factory mounting holes. Secure all wiring out of the way with the supplied zip ties as shown in FIG26.

See next page for final adjustments.



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Powered Automatic Mirror Movers: Doors-Off Block Open Feature

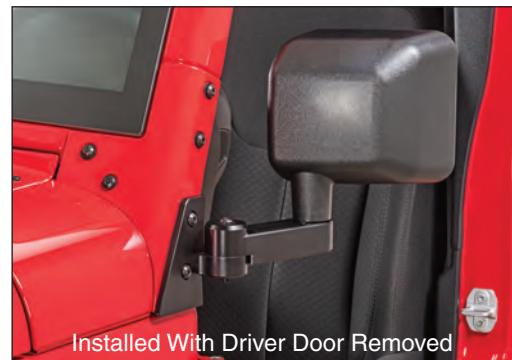
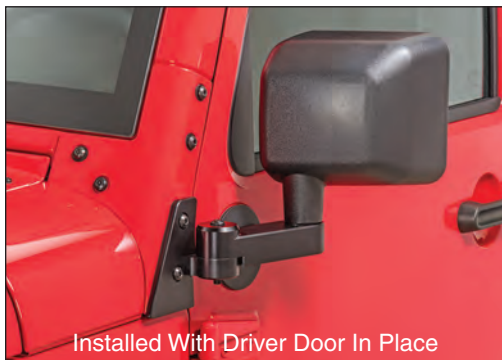


In the event you choose to remove your doors, there is a convenient block-open feature built into these mirrors. Swing the mirror out and locate small hole on the lower hinge assembly.

Carefully insert the supplied 3mm hex key as shown in FIG27 and FIG28.



The 3mm hex key acts as a pin to hold the upper hinge in place. Gently allow mirror to return and contact the hex key as shown in FIG28. With the mirrors blocked out of the way, the doors can be removed without interference.



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Powered Automatic Mirror Movers: Periodic Check and Adjustments



If your mirror is not returning properly to the fully closed position, pull the Mirror mover away from the vehicle. Using a 6mm hex key and a 17mm socket

wrench gently snug the through bolt (Fig29) until the mirror does not return freely to its resting position. Fig30 shows the mirror in the no-return



position. Next, back off the nut on the through-bolt slightly (approximately ¼ turn) until the mirror automatically returns freely and smoothly to its resting position.

Figures 31 and 32 show the mirror being pulled away and automatically returning to its resting position.

This adjustment may need to be done periodically throughout the life of the product.



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Quadratec® Exclusive Three Year Limited Warranty

Your Quadratec® branded accessories are covered by the following **Limited Warranty** provided exclusively by Quadratec, Inc., 1028 Saunders Lane, West Chester PA 19380.

This **Limited Warranty** is the only warranty made in connection with your purchase. Quadratec neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or **Limited Warranty**. This **Limited Warranty** does not apply and is not cumulative to any accessory or part distributed by Quadratec for which the Manufacturer provides a separate written warranty.

What is Covered: Subject to the terms, exclusions and limitations herein and with respect only to Quadratec branded accessories first sold in the United States, Quadratec warrants to the initial retail purchaser only that your Quadratec accessory shall be free of defects in material and workmanship: **for a period of three (3) years from date of retail purchase.**

This **Limited Warranty** is not assignable and shall terminate upon sale of the vehicle upon which the Quadratec accessory is installed or other transfer third persons.

All other warranties are hereby disclaimed, except to the extent prohibited by applicable law in which case any implied warranty of merchantability or fitness for a particular purpose on this product is limited to 3 year from date of initial retail sale. Quadratec reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this **Limited Warranty** as a condition of warranty service and, (b.) make future revisions to this product and **Limited Warranty** without prior notice or obligation to upgrade your product.

What is Not Covered:
Your Quadratec **Limited Warranty** does not cover products or parts Quadratec determines to have been damaged by or subjected to:

(a.) installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) normal wear & tear, cosmetic damage or damage from moisture or water immersion, (c.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (d.) theft, vandalism or other intentional damage.

Remedy Limited to Repair/Replacement:
The exclusive remedy provided hereunder shall, upon Quadratec inspection and at Quadratec's option, be either repair or replacement of product or parts (new or refurbished) covered under this Limited Warranty. Customers requesting warranty consideration should first contact Quadratec to obtain a RGA number (610-701-3336). All labor, removal, shipping and installation costs are customer's responsibility.

Other Limitations - Exclusion of Damages - Your Rights Under State Law:

In consideration of the purchase price paid, neither Quadratec nor any independent Quadratec distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This **Limited Warranty** gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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Instructions Part #12999.3069



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