



2020 and 2020 XG Mirror Information

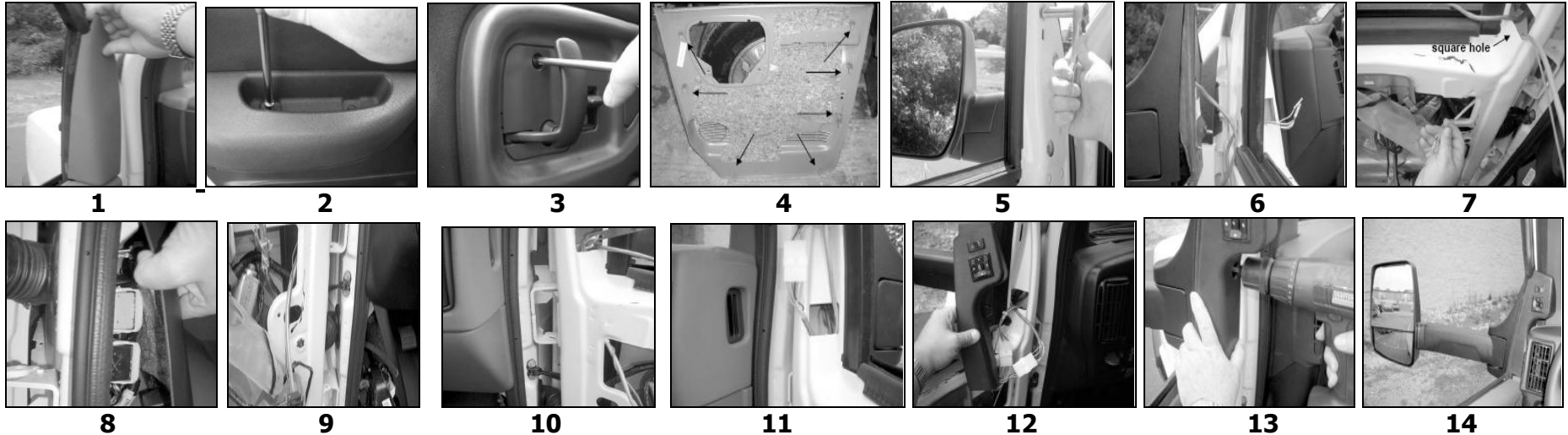
Read all instructions before proceeding with mirror installation.

GM/Chevrolet Installation Instructions

All pictures and instructions are for van driver and passenger side doors. Other applications have a similar procedure.

Tools Needed for Manual Installation: 7/16 Deep Well Socket (magnetic preferred), Socket Driver

For Electric Include: # 2 Phillips Screwdriver, Flathead Screwdriver, Volt Meter, Drill with 3/32 Bit, TX20 Torx Screwdriver



IMPORTANT NOTE: The remote control/heater switch kit will be provided with wiring instructions. Use these in addition to the instructions shown below. Instructions are for both driver and passenger side unless otherwise noted.

***Manual Mirror Installations need to only use steps 1, 5, 6**

Steps correspond to photos above

(1) Pry off the interior sale molding as shown. **(2)** Remove the arm rest. **(3)** Remove the screw and trim piece behind the door handle. Lift the cover plate away from the door. **(4)** Carefully pull up on the door panel. Do not damage the 7 mounting clips. **(5)** Using a 7/16" deep well socket wrench remove the original mirrors. Do not discard the mounting nuts. **(6)** Attach the original mounting gasket to the new base. Feed the wire harness through the door (if electric). Mount the mirror and tighten the nuts to 75-100 in-lbs. **Caution: Mirror must fit flush against the door, and wire harness cannot be pinched or kinked.** Close the door and pivot the mirror assembly forward and backward to insure that the mirror is seated properly, then recheck the fastener torque. (if manual install the sail moldings) **(7)** Route the interior wire harness from the square hole into the door. **(8)** Remove side kick panels. **(9&10)** Run wire harness through the door and into the vehicle through the rubber boot. Route the wires under the dash using wire ties (not supplied). **(11)** Install male and female plug housings (see wire switch drawing) for both driver and passenger sides. **(12)** Connect harness to switch assembly. **(13)** Use new switch plate molding as a template to mark mounting screw location. Mount switch plate using screw included. **Caution: Do not damage wiring when drilling hole.** **(14)** Replace door panels and kick panels. See the last page for mirror head/glass adjustment information.

Ford Installation Instruction Photos

All pictures are for van driver and passenger side doors. Super Duty Pickups have similar installation.



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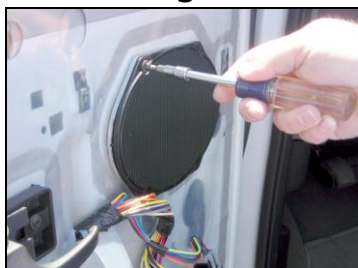
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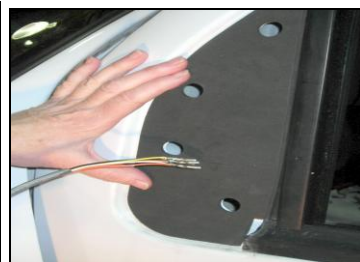
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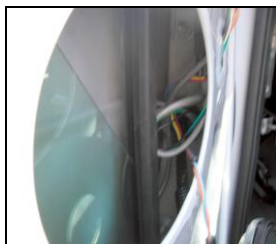
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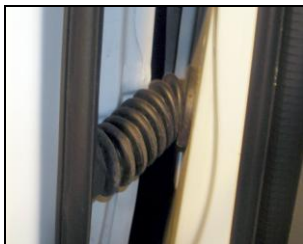
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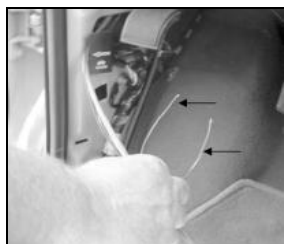
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Ford Installation Instructions

Read all instructions before proceeding with mirror installation.

All pictures and instructions are for van driver and passenger side doors. Other applications have a similar procedure.

Tools Needed for Manual Installation: 7/16 Deep Well Socket (magnetic preferred), Socket Driver

For Electric Include: # 2 Phillips Screwdriver, Flathead Screwdriver, Volt Meter, Drill with 3/32 Bit, TX20 Torx Screwdriver

IMPORTANT NOTE: The remote control/heater switch kit will be provided with wiring instructions. Use these in addition to the instructions shown below. Instructions are for both driver and passenger sides unless otherwise noted.

***Manual Mirror Installations need to only use steps 1, 2, 12, 13, 14**

Steps correspond to photos on page 2

(1) Pry off the interior sail molding as shown. **(2)** Remove the Phillips screw at top of door panel. **(3)** Remove cap and Phillips screw from the lower corner of the door. **(4)** Remove the Phillips screw from door handle. **(5)** Remove the door handle trim piece using a flathead screwdriver. **(6)** Remove the Phillips screw as shown. **(7)** If vehicle has manual windows remove window crank handle by prying off outer molding and removing Torx screw. **(8)** If vehicle has power windows pry up and remove the window and lock panel using a flathead screwdriver. **(9)** Remove the Phillips screw as shown and remove the door panel by lifting up and out. **(10)** Use the Torx screwdriver to remove the 4 speaker screws. **(11)** Unplug the original mirror. **(12)** Using the socket wrench remove the original mirrors. **Note: Do not discard the mounting nuts!** **(13)** Position the gasket. **(14)** Fasten the mirror to the door, 75-100 in-lbs. of torque on the mounting nuts. **Caution: Mirror must fit flush against the door, and wire harness cannot be pinched or kinked.** Close the door and pivot the mirror assembly forward and backward to insure that the mirror is seated properly, then recheck the fastener torque. (if manual install the sail moldings) **(15)** Route mirror head wires through hole in door. **(16)** Route wires in front of window track for clearance. **(17)** Route the wire harness inside the rubber boot from door into body. **(18)** Remove the hood release panel. **(19)** Remove the side kick panel cover and feed the harness through the hole. (Driver Side) Separate green wire with yellow stripe (power) and black (ground) wire from harness. Route and attach power wire to a 12 volt DC power source using a 7.5 amp fuse. Route and attach the ground wire. **(20)** Remove the vehicle engine cover and feed the wire harness toward passenger side along the top of the engine compartment. Replace engine cover. **(21)** On driver side, use new switch plate molding as a template to mark mounting screw location. Plug in both wire harnesses and mount switch plate. **Caution: do not damage wiring when replacing fastener for sail molding.** Replace all side kick panels and door panels in reverse procedure as removed. Snap on driver and passenger interior sail moldings.

See the page 4 and 5 for mirror head/glass adjustment information.

Mirror Head/Glass Adjustments



2020 Standard Mirror Head



2020 Deluxe Mirror Head



2020 XG Mirror Head

2020 Head / Glass Adjustment - **keep hands off glass until fine adjustment**

- Have person in driver's seat and mirror in normal driving position
- Grasp and rotate mirror head to rough viewing position per driver requirements. Flat glass should be somewhat flush with edges of mirror shell at this point.
- NOTE: loosen set screw in elbow if needed prior to head rotation then retighten to 75-100 inch lbs.
- **Standard head** - moves both horizontally and vertically. **Deluxe head** moves only horizontally.
- **Fine adjust** by gently pushing on glass manually or use remote motor switch if available for flat glass. Convex is manual.

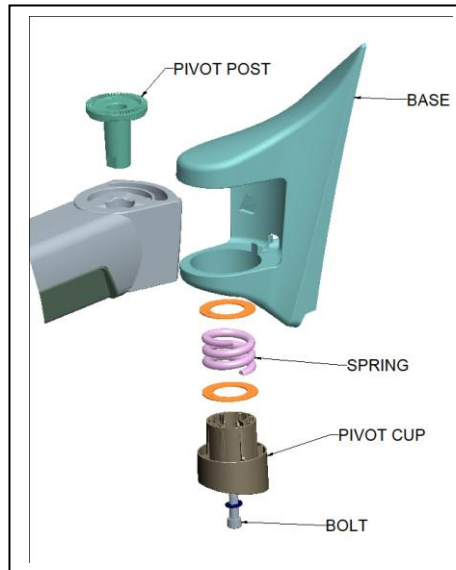
2020XG Head is pre-positioned on arm – refer to fine adjust information above.

Changing Mirror Home Position (Steps correspond to the following photos:

1



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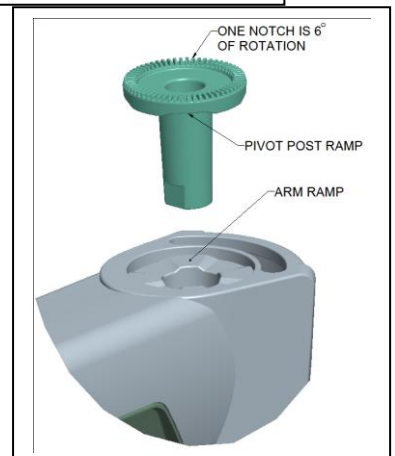
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(1) Note the match up of the contour along the surface towards the front of the vehicle. Pre-mark with chalk or temporary marker, the position of the arm and base as it is in the "home" position, prior to disassembly. **(2)** Use a 5/16" hex wrench to remove the bolt, pivot cup, and spring. **(3)** Use a small screwdriver or awl to insert into the notches of the base by the pivot post to pry down on the pivot post. Work your way around until the pivot post drops down. **(4)** Make sure the post is sitting all the way down on the arm ramps. Rotate the arm slightly forward one notch and slide it into position, so the front contour is slightly mismatched. **(5)** Push up and hold so the post is keyed into the base notches. Re-install the spring, pivot cup, and bolt. Verify the arm position. The pre-mark from Step 1 should not be aligned. There will be an offset value of approximately .20" per 6°.

Care for Your Mirrors

Mirror Glass- Clean with a clean cloth and glass cleaner.

Mirror Housing, Arm and Base- Clean with a wet cloth or sponge. After drying, to protect the finish apply a product designed for plastic.

Chrome- although chrome is a very attractive finish, it does require a regular cleaning and maintenance program to keep it looking good and reduce the possibility of chrome surface degradation. It is especially important to clean the chrome prior to long vehicle storage or to remove road salts which can lead to oxidation or the loss of chrome adhesion. Clean the mirrors as part of your regular vehicle maintenance program. Products such as Flitz chrome metal polish, can be used on chrome and smooth surfaces. Visit the website at www.flitz-polish.com.

Accessing Detailed Installation Instructions and Owners Manuals

The Velvac web site also contains detailed installation instructions and the owner's manual for your mirrors. They are easily accessible at the end of the Technical Documents section, www.Velvac.com/tech.htm listed by Model of mirror. The documents include adjustment, maintenance and replacement parts information.

Help!

If you need assistance to obtain installation instructions, owner manuals, and replacement parts or have questions or comments please contact us at:

Technical Support email: technicalsupport@Velvac.com

Phone: 1-800-783-8871 Monday – Friday 7:00am – 4:00pm central time

Fax: 1-262-786-4101

Visit our web site for new products and upgrades to your current Velvac mirrors!



www.Velvac.com

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