



GW-V-MTPW-KIT

MANUAL-TO-POWER WINDOW CONVERSION KIT FOR VANAGON

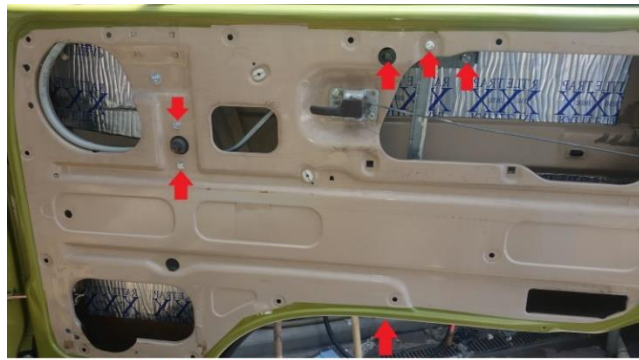
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IMPORTANT DISCLAIMER: Installation of this kit is not easy. Please read through the entire instructions from start to finish before beginning this installation. If, after reading the instructions, you have any doubt about your ability to install this kit correctly, please take your vehicle to an automotive electrician. Wiring errors can be troublesome and hazardous.

NOTE: You will NOT use all of the parts included with this kit. Refer to the appendix for a page which includes pictures and descriptions of each part used. This page will be extremely useful during the installation process.

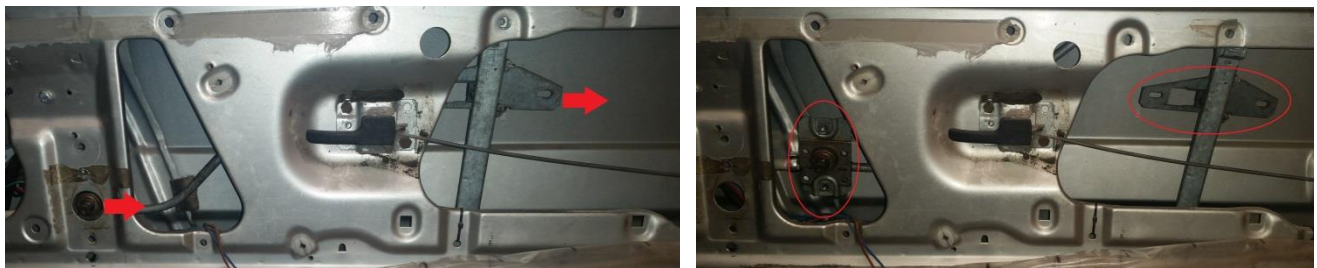
Installation:

1. The passenger side door will be converted first. Start by removing the passenger side door panel.
2. Detach the passenger side manual window regulator by removing the six 6mm bolts shown in the picture below. The window will need to be rolled down slightly to gain access to one of the bolts that attaches the window to the regulator.



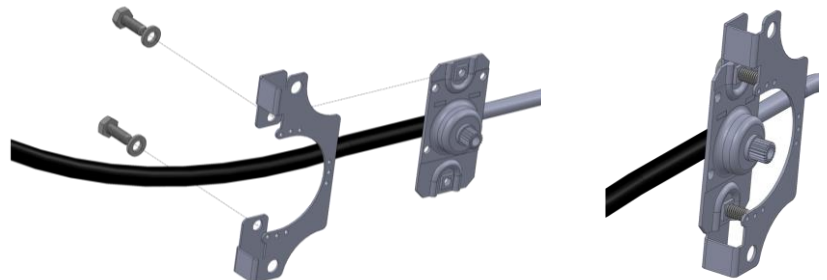
BOLT LOCATED UNDER DOOR

3. Move regulator over to the right to gain good access.



From this position, the following steps can be done without removing the manual window regulator from the door.

4. Find the passenger side bracket. Attach the passenger side bracket to the regulator using the shorter of the 6mm bolts and washers supplied.





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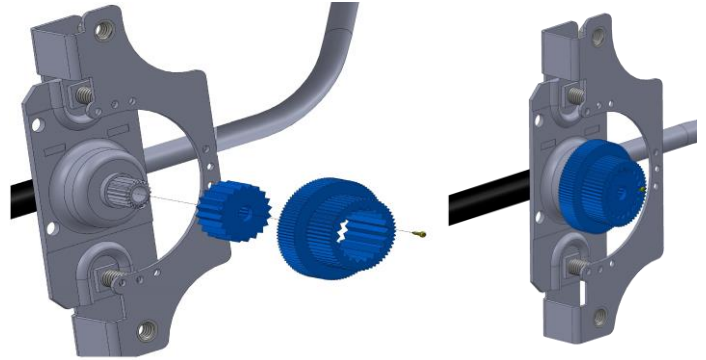
5. Locate the blue plastic adapters. There are many adapters included in the kit – the correct ones will need to be selected.

Locate the smaller, inner adapter marked **3A**.

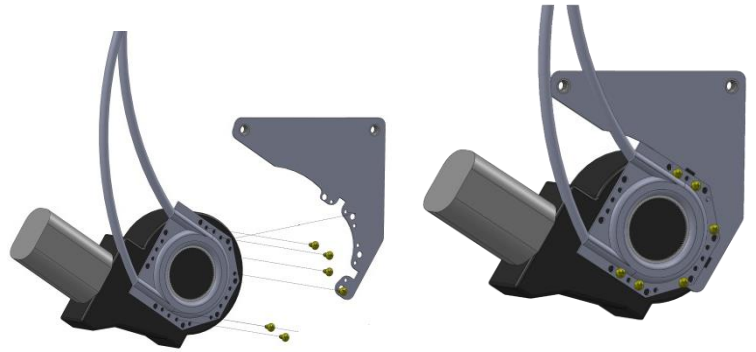
NOTE: If the 3A adapter is too tight and will not fit over the splines on the window regulator, adapter 12A may be used instead.

Find the larger, outer adapter. It will be the shortest of the outer adapters.

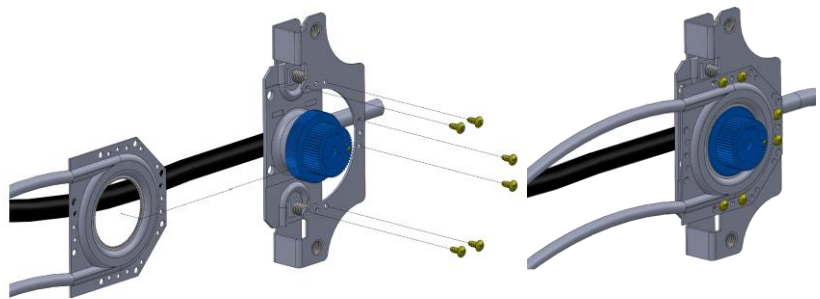
The very small Phillips screw will be used to bind the two plastic adapters together. The screw should be threaded between the adapters as shown in the diagram. Once assembled, place the adapter assembly onto the factory window regulator as shown on the right. Then use the short panhead screw with a dab of Loctite to secure the gears to the regulator.



6. Locate the motor bracket and attach it to the power regulator motor using six of the silver self-tapping screws as shown to the right.



7. Locate the passenger side power regulator and feed it into the door through the lower opening. The regulator will attach using six of the silver self-tapping screws as shown to the right.





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8. The entire assembly, up to this point, should look like the diagram to the right and be fully located inside the door.



9. **IMPORTANT STEP:** In order to re-attach the regulator to the door, one hole will need to be drilled. Find the template in the appendix in the back of these instructions. Cut the template out and line it up on the door as shown in the diagram on the template sheet. Drill the hole indicated in the template instructions using a 5/16" drill bit.

10. The new regulator assembly will be re-attached to the inside of the door shell as shown in the diagram to the right using the remaining 6mm bolts, washers, and plastic spacers (on the black break-away tree).

Two of the long black spacers provided with this kit will need to be used to space the manual-to-power window gear bracket into the door.

Two of the short black spacers provided with this kit will need to be used to space the manual-to-power window motor bracket into the door.



11. Repeat steps 2-11 for the driver side door.



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12. Locate the wiring harness and window switches included with this kit. Make connection and route the wiring harness under the dash and into each door through the rubber door boots according to the following wiring diagram.

12V Power Source

All years:

If you want your windows to operate regardless of ignition switch position, it is highly recommended to wire your power windows to an auxiliary battery system, not your main battery, to avoid running down your main battery and risk not having enough power to start your vehicle. How you connect to your auxiliary battery system varies with the system, and is not covered in these instructions. The instructions below assume you do not have an auxiliary battery system.

Connect the positive wire to terminal G1 on the back of the fuse panel. Windows will work only with ignition switch in the RUN position. You can eliminate the in-line fuse provided if you wish, the G1 terminal is powered through fuse #12 on your fuse box.

13. Square holes for mounting the electric window switches will need to be cut into the door panels. Use the templates found in the box to cut the square holes to the proper dimensions, noting that the arrows face up. Carefully use a box cutter or other cutting instrument to make these holes. The holes should be located in the vicinity shown in the red to the right. Make sure the back of the switch will end up in the clearance area shown in red.

The electric window switches will need to be placed into the newly made square holes before hooking the wires up inside the door.

14. Zip-tie all of the wires up inside the door so that the window will not interfere with the wires as it rolls up and down.
15. Test the windows and make sure they are working properly. If the window moves in the opposite of the expected direction, swap the blue and green wires for that window motor.
16. Replace the door panels and cap the manual window crank hole with one of the black caps provided.

NOTE: The manual window T-handle can be used to manually roll the windows up or down in case of a dead battery or an unlikely motor failure.



Enjoy your new power windows!

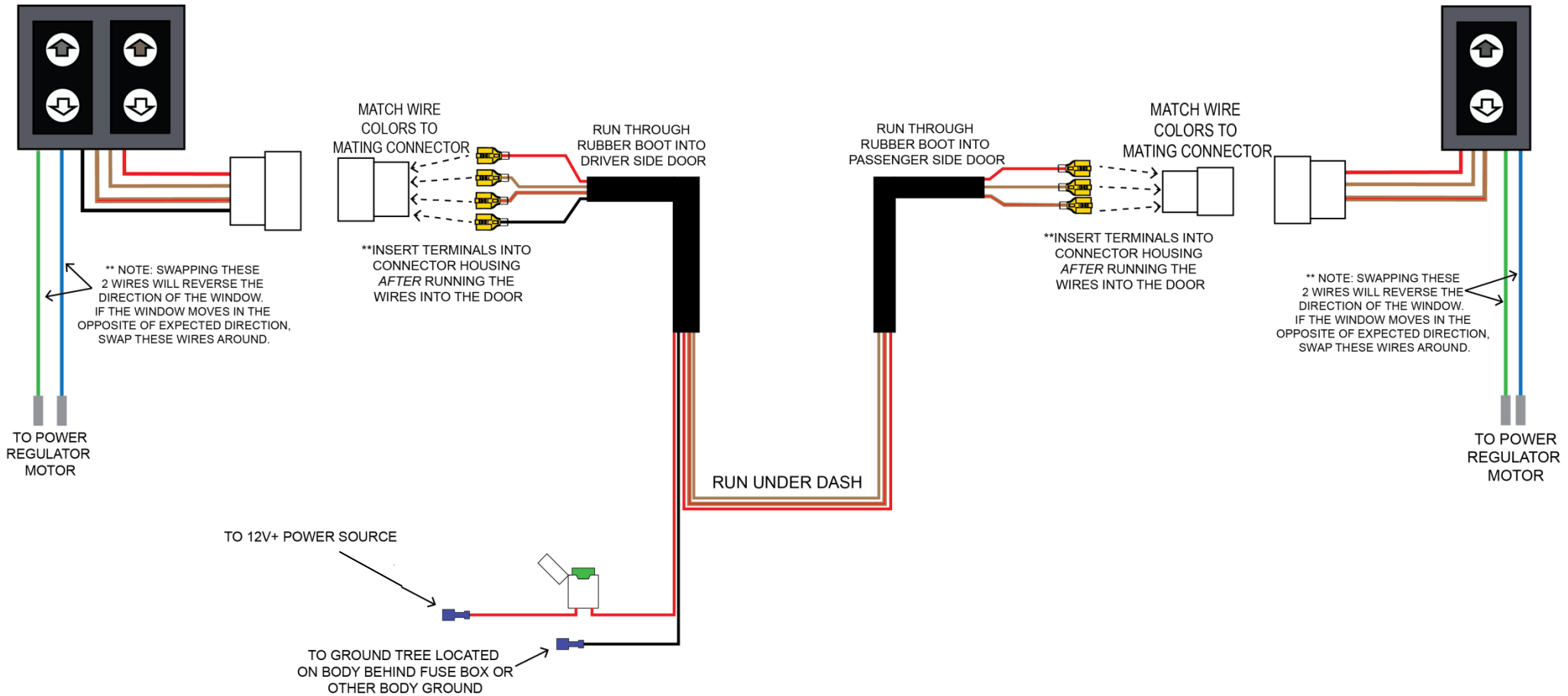


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Wiring Diagram





GVW-MTPW-KIT

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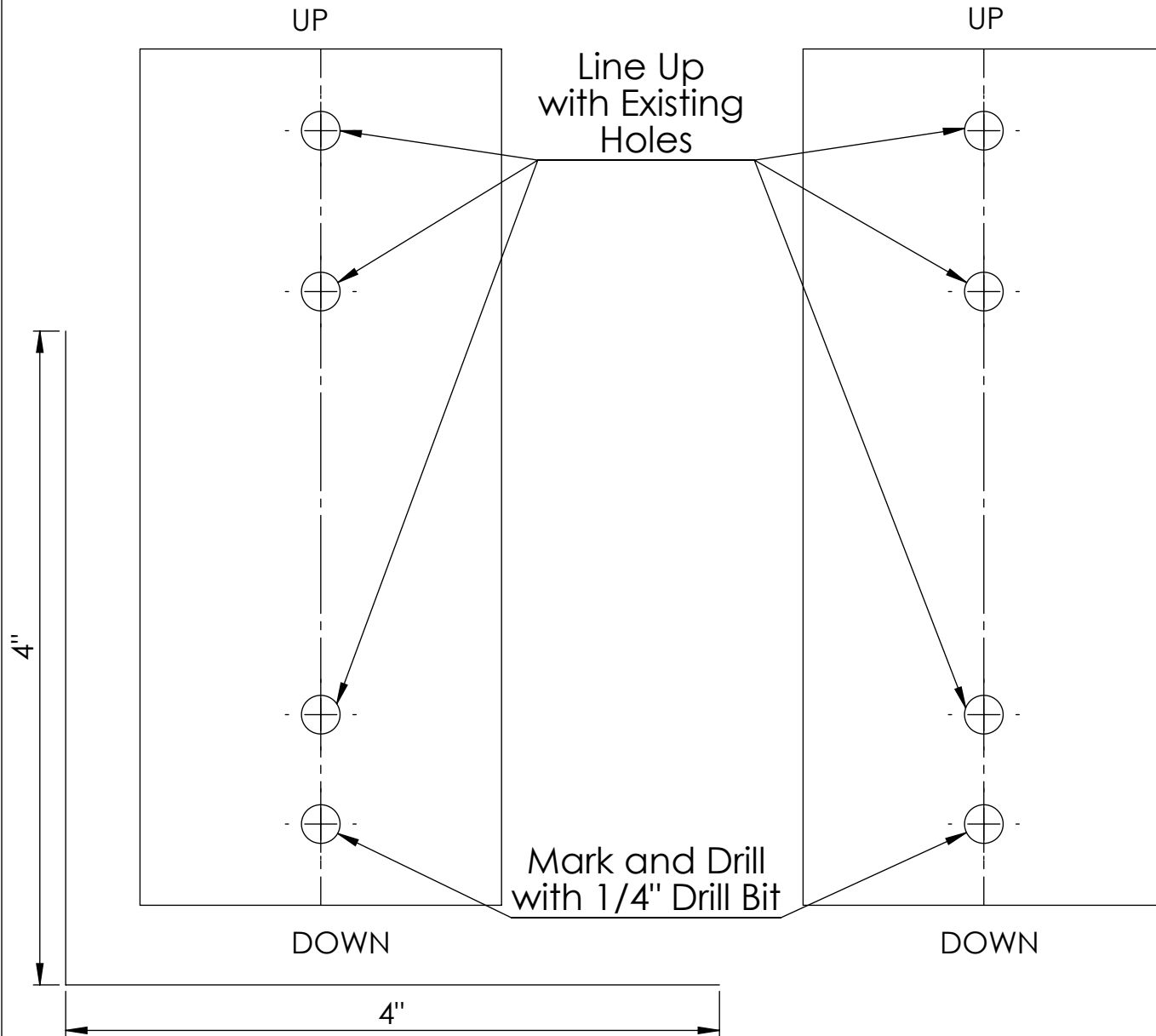
APPENDIX

Parts List:

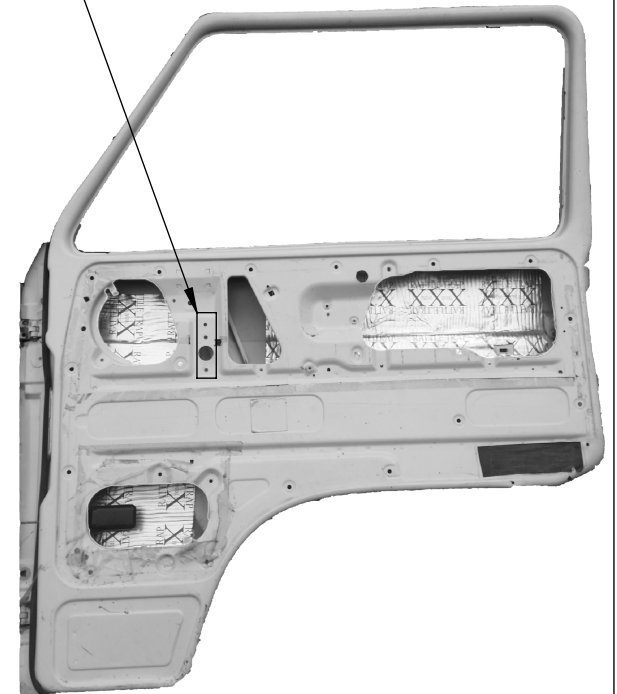
NOTE: There are differences in passenger side and driver side parts. Pay special attention to each. Pictures are not to scale.

 <p>x1 Driver side crank bracket</p>	 <p>x1 Passenger side crank bracket</p>	 <p>x1 Driver side motor bracket. Pay attention to direction of press-in nuts when assembling.</p>	 <p>x1 Passenger side motor bracket. Pay attention to direction of press-in nuts when assembling.</p>
 <p>x1 Driver manual-to-power window regulator</p>	 <p>x1 Passenger manual-to-power window regulator</p>	 <p>x2 Inner plastic gear adapter</p>	 <p>x2 Outer plastic gear adapter</p>
 <p>x4 Longer spacer</p>	 <p>x4 Shorter spacer</p>	 <p>x8 Press-in Nut</p>	 <p>x12 M6 washer</p>
 <p>x4 Shorter 6mm bolt</p>	 <p>x8 Longer 6mm bolt</p>	 <p>x22 Selftapping screws</p>	 <p>x2 Small screws used to bind plastic gears</p>
 <p>x2 5mm screw</p>			

INSTRUCTIONS:
 START BY MAKING SURE THAT THE PRINTED PDF IS TO SCALE BY MEASURING THE CALIBRATION LINES IN THE BOTTOM LEFT CORNER WITH A RULER. THE LINES SHOULD BE EXACTLY 4" IN LENGTH. CUT OUT THE TEMPLATES TO THE LEFT AND USE THEM TO MARK AND DRILL THE INDICATED HOLE.

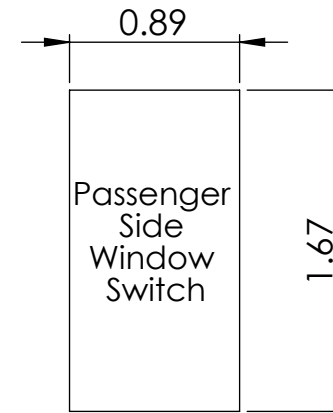
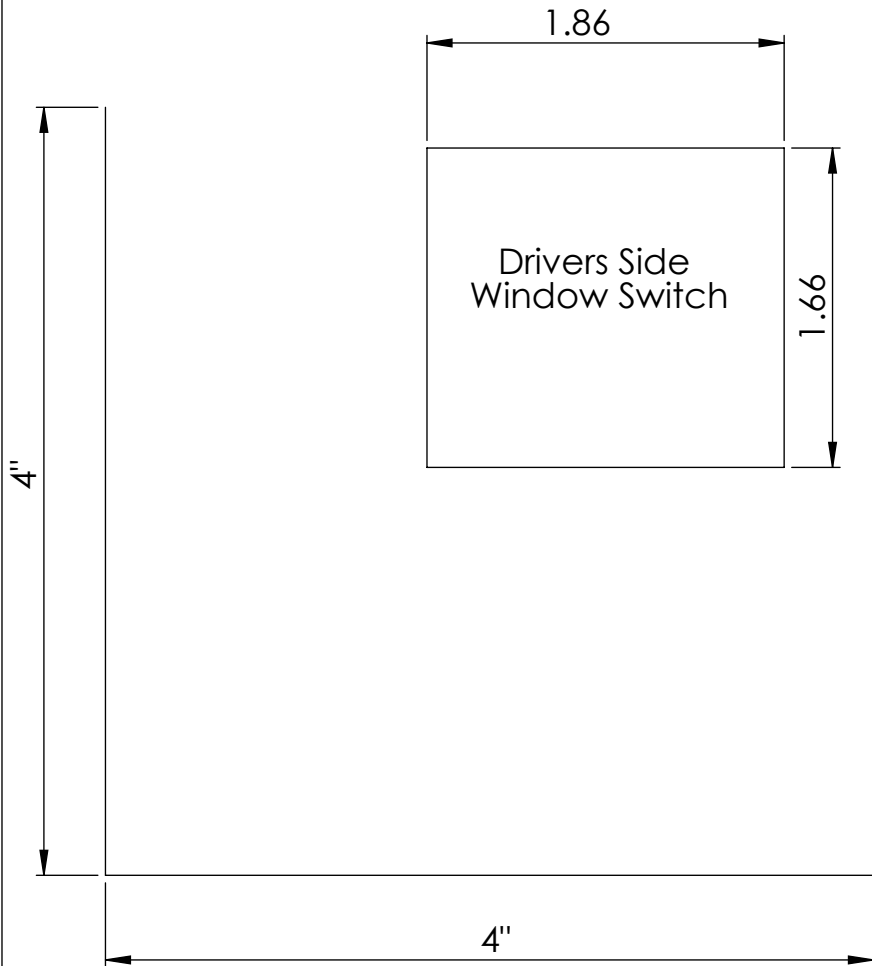


Line Up Template Here



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Manual to Power Window Regulator Drill Template



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 START BY MAKING SURE THAT THE PRINTED PDF IS TO SCALE BY MEASURING THE CALIBRATION LINES IN THE BOTTOM LEFT CORNER WITH A RULER. THE LINES SHOULD BE EXACTLY 4" IN LENGTH. CUT THE TEMPLATE FROM ABOVE AND USE IT TO TRACE THE HOLES FOR THE ELECTRIC WINDOW SWITCHES



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Manual to Power Window Regulator Electric Window Switch Template