

COMMITTED TO THE BUILD

Raingear

HIDDEN WIPER SYSTEM FOR YOUR CLASSIC CAR
ASSEMBLED IN ARIZONA USA RAINGEARWIPERS.COM

Installation Instructions

1970-1981 Camaro/Firebird/Trans Am

The Raingear 1970-81 Camaro, Firebird, and Trans Am Wiper System is engineered for both reliability and ease of installation. Please take a moment to review these instructions before beginning your installation. Each system is precision-designed, and we occasionally make design updates, so some components may vary slightly from the photos shown. If you believe any modifications are needed to fit your application, please contact us at Sales@RaingearWipers.com before making any alterations.



(Figure 1)

Figure 1: Displays the components included in your purchased kit. The contents may vary depending on your vehicle's year, model, and switch option, as shown in the labeled boxes.



Important: You will be working in an area of the vehicle that contains a high concentration of electrical wiring.

Disconnect the battery before beginning installation.

Removal of Factory Wiper System

1. Access the Airbox:

Open the hood to access the plastic grille located just forward of the windshield. This grille covers the “**Airbox**”, a term that will be referenced frequently throughout these instructions.

2. Remove the Grille: Carefully remove the plastic grille.

3. Disconnect the Drive Arm:

Using a 1/2" wrench, remove the nut securing the Drive Arm to the stock wiper motor. Gently pry the Drive Arm from the Motor Spindle.

4. Remove the OEM Wiper Assembly:

Each OEM Pivot Shaft is attached to the cowl with three fasteners. Remove these fasteners and lift the entire wiper assembly from the vehicle.

5. Remove the Wiper Motor and Adapter Plate:

Unplug the wire harness from the wiper motor. Remove the wiper motor from the firewall, then remove the motor adapter plate.

Drill Wire Location

Before beginning the installation of your Raingear GEN II Wiper System, locate and drill a 5/8" hole from inside the car into the floor of the airbox.

Start by removing the plastic cover beneath the steering column. This will provide access for drilling and later allow easy access to the dash panel when installing the wiper switch.

Figure 2:

To the right of the steering column, look straight up and locate the sheet metal bracket with a row of small holes



<p>Figure 3:</p> <p>To the right of the steering column, look straight up and locate the sheet metal bracket with a row of small holes.</p>	
<p>Figure 4:</p> <p>Step 1: Go outside the car and look into the airbox. You will see the hole on the floor of the box.</p> <p>Step 2: Clean off any sharp burrs around the hole.</p> <p>Step 3: Install the rubber grommet provided in the kit.</p> <p>Step 4: Locate the wire bundle and carefully thread the loose ends from inside the airbox, through the rubber grommet, and into the car's interior.</p>	

You are now ready to install the Wiper System

The Machinery

Step 1: Orient the **Pivot Shafts and Link Assembly** as it will fit into the airbox.

Note: The **passenger side Pivot Shaft** goes to the **right**, and the **driver side Pivot Shaft** goes to the **left**.

Step 2: Using the **far-left, large hole** in the top of the airbox, carefully insert the **Pivot Shaft and Link Assembly** into the airbox.



Figure 5



Figure 6

**Point the tips of the brass Pivot Shafts toward the back of the car.
(Refer to Figure 1 on page 1, see Figures 5 and 6.)**

Figure 7:

Step 1: Make sure the radio antenna plug is rotated upward to approximately the 12 to 2 o'clock position.

Step 2: Rotate the tips of the brass Pivot Shafts forward and upward, inserting them into their respective holes in the cowl.



Figure 8:

On the passenger side, place the stainless-steel cover plate (the one with two small holes) over the Pivot Shaft and onto the cowl.

Secure the plate using two 1/4-28 button head bolts and two 1/4" flat washers.



Important: Do not fully tighten the bolts at this time.

Figure 9:

On the driver side, place the stainless-steel cover plate (the one with three small holes, not pictured) over the Pivot Shaft.

Secure it using three 1/4-28 button head bolts and three 1/4" flat washers.



Figure 10:

Before inserting the wiper motor into the airbox, connect the wire harness to the plug on the electric motor.

Make sure to orient the wires from the motor as shown in Fig. 10.



Insert the wiper motor and bracket through the far-left opening into the airbox.

Attach the motor bracket to the left Pivot Shaft head first. (See Fig. 11 and 12.)

Secure using two 1/4-28 button head bolts and two 1/4" flat washers.



Figure 11



Figure 12

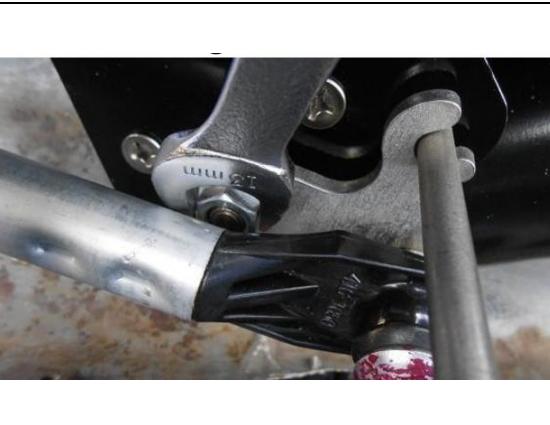
Figure 13:

Next, attach the motor bridge to the driver side Pivot Shaft head using two 1/4-28 button head bolts and two 1/4" flat washers



After all button head bolts are installed tighten all fasteners.

The Drive Arm

<p>Figure 14:</p> <p>To attach the drive arm to the motor:</p> <ol style="list-style-type: none">1. Remove the loose 13mm nut from the motor spindle.2. Place the tapered hole of the drive arm onto the vacant spindle.	
<p>Figure 15:</p> <p>Replace the nut but DO NOT TIGHTEN.</p> <div data-bbox="208 720 404 910"></div> <div data-bbox="425 730 780 758">IMPORTANT NOTE (Figures 15 & 16):</div> <div data-bbox="425 768 784 794"><p>The hardware shown in these figures is incorrect.</p></div> <div data-bbox="425 800 784 825"><p>The revised nut is not shown in the original photos.</p></div> <div data-bbox="425 840 750 882"><p>A photo of the correct nut has been added for your reference.</p></div>	
<p>Figure 16:</p> <p>Locate the empty 1/4" diameter hole on the motor mount face.</p> <p>This hole is used to align the “PARK” position of the wiper system when it is in the off position.</p> <p>Note: The wiper motor included in this kit is shipped in the “PARK” position.</p>	
<p>Figure 17:</p> <p>Rotate the drive arm “park slot” over the hole in the motor bracket and insert a 1/4" round object through the slot and into the hole.</p> <p>Use a 13mm open-end wrench to tighten the motor spindle nut.</p> <p><i>(A Phillips screwdriver, 1/4" bolt, or any object of similar size can be used.)</i></p>	

If you have the Pantograph Arm feature

If your pantograph arm has the slide clip installed, use it to secure the arm. If not, use the supplied small E-clip. (See Fig. 18.)

Note: Skip this step if your kit does not include the pantograph feature.



Figure 18

1979-1981 Switch

Remove the OEM windshield wiper switch.
Use the OEM switch screws to attach the adapter plate to the dash panel.



Figure 19

Cover Plate



Figure 20



Figure 21

Secure the cover plate to the outside of the firewall using three 10-24 stainless steel screws and three 3/16" flat washers. (See Fig. 20 and 21.)

Thank you for choosing Raingear Wiper Systems. We look forward to assisting you with your next project!

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