

COMMITTED TO THE BUILD

Raingear

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

Installation Instructions
1953 – 1954 Chevrolet



GETTING STARTED: RECOMMENDATIONS

PLEASE TRY OUR WAY FIRST!

This system is designed with built-in adjustments to properly fit your car. If during installation you believe you need to modify any of the supplied parts (*except where specifically noted*), **stop**—something is likely incorrect.

Please reread the instructions or email us at Sales@RaingearWipers.com before making any changes.

For technical questions, contact us directly. **Dealers do not stock spare parts and cannot troubleshoot installation issues.**

IMPORTANT NOTES

- The Raingear 1953/1954 Chevrolet Wiper System is designed for use **only on vehicles converted to a 12-volt negative ground system.**
It is **not compatible** with 6-volt original electrical systems.
- The Drive Unit installs on the **left-hand side of the steering column under the dash.**
- You must use the **original chrome pivot shaft escutcheons** (outer chrome pieces).

Before getting started, familiarize yourself with all included drawings and diagrams.



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.

1. PREPARATION

First: DISCONNECT YOUR BATTERY.

You will be working under the dash where a high concentration of wiring is located.

Next, complete the following steps:

- Remove the radio and stock radio support bracket from the firewall.
- Remove the stock radio speaker and the chrome speaker-grill/ashtray casting (held to the dash by the four studs securing the speaker).
Note: The two hex nuts above the ashtray shield do not secure the speaker grill and do not need removal.
- (Optional) Remove the glove box to make installation easier.
- Remove the wiper control knob and cable. **Save the knob** for use with the new system.
- Remove wiper arms and blades.
- Remove both slotted escutcheon nuts retaining the original pivot shafts.
- Push the pivot shafts into the interior.
- Remove the vacuum motor control cable from the vacuum motor and feed it into the interior.
- Remove the original wiper motor.
- Remove the firewall-mounted spool assembly.
- Remove the wiper motor control cable from the dash.

Those wishing to retain an original appearance may reinstall the stock motor on the firewall after the Raingear system is fully installed. A block-off plate is included if you prefer to cover the firewall opening instead.

2. INSTALLATION OF MOTOR & LEFT-HAND PIVOT SHAFT ASSEMBLY

Before mounting the assembly, ensure the **new wiper motor and switch are wired together** (see wiring diagram).

It is very difficult to install the wiring harness once the assembly is in place.

- Attach the **shorter** cross-link half to pivot pin “**D**” on the left-hand drive unit. Ensure the keyed bushing aligns with the key slot. The shoulder bushing must face the pivot pin. *(See Figures 1, 2, 5 & 6.)* These fittings are intentionally tight—use a $\frac{1}{4}$ ” **open-end wrench** to push the J-clip into place.
- If installing a windshield washer pump and reservoir, route and install the rubber hoses to the brass tubes on the **interior side** of the wiper escutcheons now.
- Place the “**U**”-shaped **body contour adapter** onto the pivot shaft of the left-hand assembly.
- Feed the cross-link half and drive unit into position from the **left side of the steering column**, above the two steel steering-column brace rods.
- Lift the pivot shaft upward through the chrome escutcheon (interior side). This step is much easier with assistance while threading the escutcheon nut from the outside.
- Snug the nut, but **do not fully tighten yet**.

3. BODY BRACE INSTALLATION

To the left of the drive assembly, locate the three fasteners securing the hood hinge to the cowl.

Two of these are **5/16”-18 hex bolts**.

- Using a $\frac{1}{2}$ ” wrench, remove the **lowest** of these two bolts only. This location will secure the lower body brace (see Figure 1).
- Use the supplied hardware:
 - **10-24 carriage bolt, nut, and washer** to attach the body brace to the drive unit
 - **5/16”-18 hex cap screw** to secure the wiper assembly to the vehicle body
- Align the left-hand drive unit and body brace, then tighten all hardware, including the escutcheon nut.

4. RIGHT-HAND PIVOT SHAFT INSTALLATION

Install the right-hand pivot shaft the same way as the left:

- Using a thin washer and J-clip, attach the **longer** cross-link half to the right-hand pivot shaft. *(See Figures 2 & 5.)* Ensure the bushing rides freely on the drive pins. Use a $\frac{1}{4}$ ” **open-end wrench** to slide the clip into position.
- Add the “**U**”-shaped contour adapter and mount the pivot shaft to the cowl.
- Tighten the escutcheon nut.

Critical:

Make absolutely sure the right-hand pivot shaft lever is positioned between **10 o’clock and 2 o’clock**.

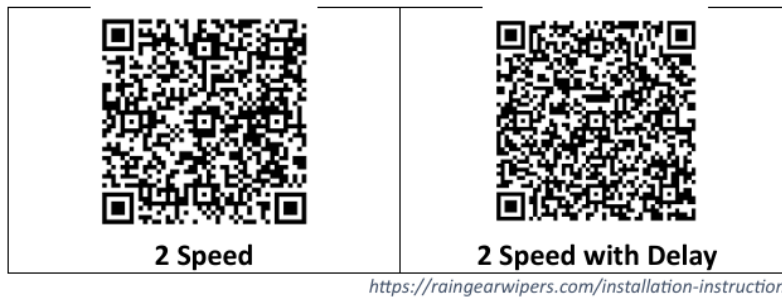
If installed between **8 o'clock and 4 o'clock**, the system will run backward and damage your hood paint.

- Join the two cross-link halves in their **shortest configuration** using the supplied 10-32 x ½" screws, nuts, and washers. Tighten securely.

5. SWITCH INSTALLATION

The intermittent wiper switch is a snug fit in the dash, but it *will* install properly.

- Insert the switch into the dash and tighten the supplied chrome bezel nut.
- Attach the **black ground wire** from the switch to a solid chassis ground.
(Required for operation.)
- Connect the **red power lead** to a 5-amp fused ignition-controlled power source.



Important:

The switch will not function without the black ground wire attached, and the system cannot be tested using a battery charger.

- Install the original 1953/1954 dash knob.
- Test electrical operation.
(Do NOT install wiper arms or blades yet.)

6. ARM & BLADE INSTALLATION

- Place a zip tie on each pivot post (outside the car), pointing toward the center of the windshield.
- Run the system and verify the zip ties return to this same position when switched off.

If they do, your installation is correct—you may now install the wiper arms and blades.

****Congratulations!**

You now have the best wiper system available for your classic Chevy.**

- Reinstall dashboard components
- Install wiper arms and blades

Figure 1
1953/54 Chevy Installation

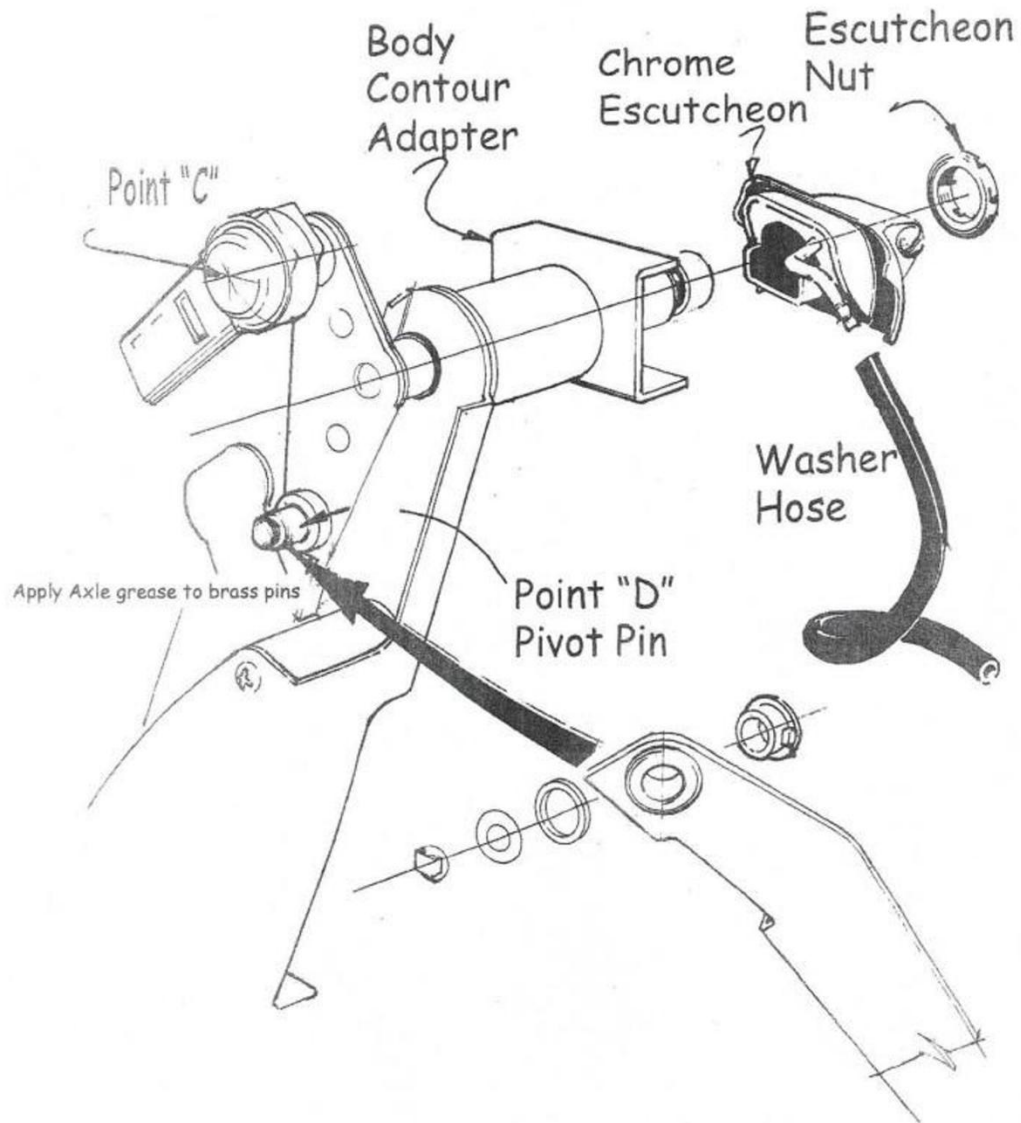


Figure 2 1953/54 Chevy Installation

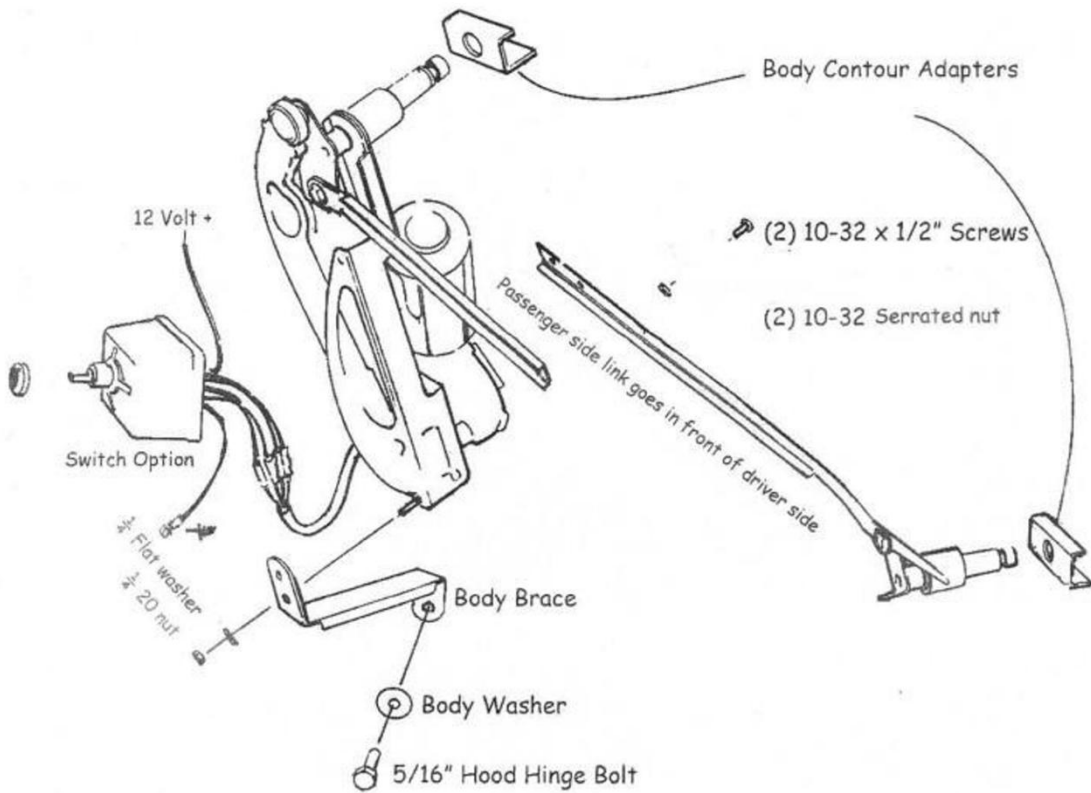


Figure 5

Passenger Side Pivot Shaft

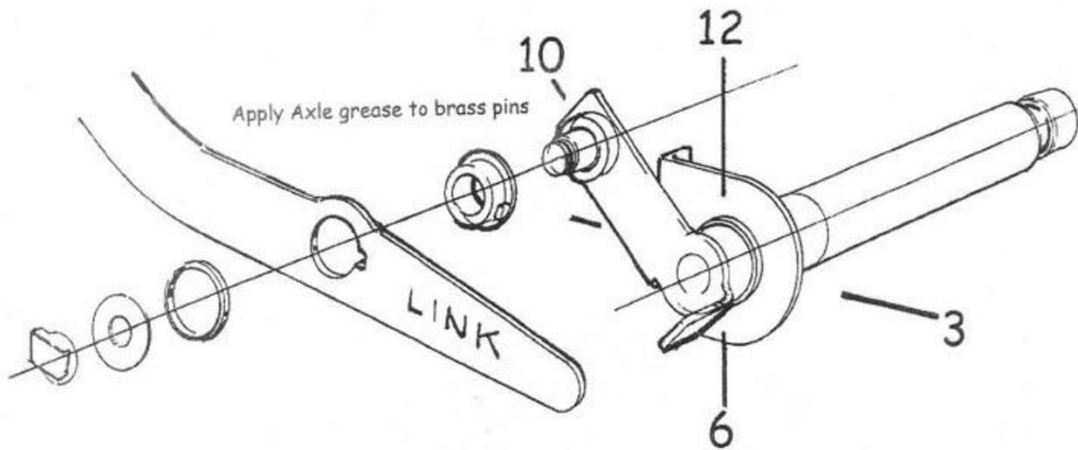
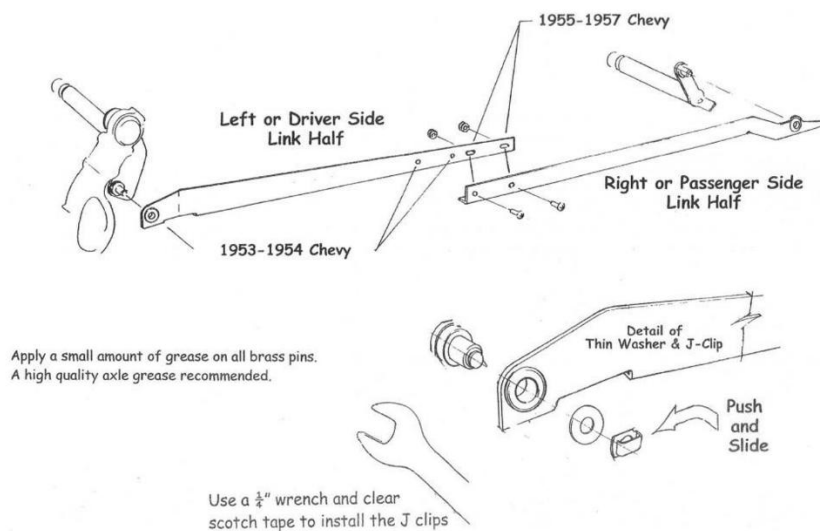


Figure 6



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