



Detroit Speed, Inc.
Selecta-Speed Wiper Kit
1973-83 C10 GM Truck
P/N: 121633 & 121634

A downpour of rain will no longer hinder your ability to clearly see the road. The Detroit Speed Selecta-Speed Wiper Kit provides you with the performance and convenience of a late model wiper system in a package that easily and cleanly mounts in your 1973-83 C10 GM Truck.



Figure 1 - PN 121634 Shown

Item #	Description	Quantity
1	Wiper Motor Assembly	1
2	Wiper Control Module w/ Mounting Plate	1
3	Wiper Harness	1
4	Wiper Switch Assembly	1
5	Hardware Kit	1
6	Instructions	1

This kit features a seven speed wiper system with five delays, low speed, and high speed. The new pitman arm, included in the kit, connects directly to your existing wiper linkage. A rotary switch is also included, along with a complete wiring harness.

This kit does feature a washer pump option as the wiper switch does have a push button function. The wiring harness/control module is equipped with a power and ground wire to install an inline electric washer pump. Detroit Speed does offer a washer pump kit available as part number 121102.

Hardware Kit Checklist – Detroit Speed 1973-83 C10 Wiper Kit			
Part Number	Description	Quantity	Check
9312209	1973-74 C10 Hardware Bag	1	
9312206	Wiper Switch Adapter Assembly	1	
9912060	1-1/4" Firewall Grommet	1	
9912244	Billet Aluminum Wiper Switch Knob	1	
9912044	3/8" AN Stainless Steel Washer	1	
950054FS	10-24 x 3/4"L Button Head Screw	3	
980096FS	5/16"-18 x 1"L Hex Head Flange Bolt	1	
970043FS	5/16" SAE Washer	1	
960033FS	5/16"-18 Nylock Nut	1	
9312212	1975-83 C10 Hardware Bag	1	
9312210	Wiper Switch LED Light Box Assembly	1	
9912365	Acrylic Wiper Cover Plate	1	
9912367	LED Dimmer	1	
9912364	Pre-Wired White LED	1	
9912366	2-Wire Lever Terminal Block	4	
9912060	1-1/4" Firewall Grommet	1	
9912244	Billet Aluminum Wiper Switch Knob	1	
950128FS	No. 8 x 5/8"L Sheet Metal Screw	2	
950054FS	10-24 x 3/4"L Button Head Screw	3	
980096FS	5/16"-18 x 1"L Hex Head Flange Bolt	1	
970043FS	5/16" SAE Washer	1	
960033FS	5/16"-18 Nylock Nut	1	

Installation Instructions:

1. Before beginning, please ensure that the parts included with your kit match the parts list above. Ensure that the factory wiper system is in its "Parked" position. Disconnect the battery power by removing the negative battery lead from the battery.
2. Mark the wiper arms' parked location with masking tape for reference (Figure 2 on the next page). It will be easier to access the wiper linkage with the wiper arms midway through their travel.



Figure 2 - Parked Location

3. Remove the 3 bolts holding the stock wiper motor to the firewall.
4. Disconnect the wiper linkage from the wiper motor pitman arm and remove the stock wiper motor from the firewall (Figure 3).



Figure 3 - Remove Stock Wiper Motor

5. The original wiring will not be used with the new Selecta-Speed Wiper Kit. A custom harness is provided to replace the original harness. **NOTE: If you decide to cut the old wires please pay special attention to properly terminate the wire ends to avoid possible shorting.**
6. Mount the new wiper motor assembly to the firewall. Use the three supplied 10-24 x 3/4"L button head screws to mount the wiper motor assembly to the firewall. The adapter plate will mount to the firewall using the original wiper motor firewall weld nuts (Figure 4 on the next page).



Figure 4 – Attach Wiper Motor to Firewall

7. Attach the new pitman arm to the original wiper linkage. **NOTE:** The Selecta-Speed wiper kit is shipped with the pitman arm in the “parked” position. Do not move the pitman arm by hand to attach the wiper linkage. If the pitman arm is moved from the original “parked” position from Detroit Speed, it may result in the wiper blades stopping in the wrong spot on the windshield.
8. The Selecta-Speed switch will replace the stock switch. Remove the screws holding the gauge panel to the dash and remove. **CAUTION:** The gauge panel can flex a little, but on certain trucks, it is necessary to remove the headlight knob first in order to remove the gauge panel. Pull the headlight switch out as far as it will go. Press down on the release button and pull out the headlight knob (Figure 5).

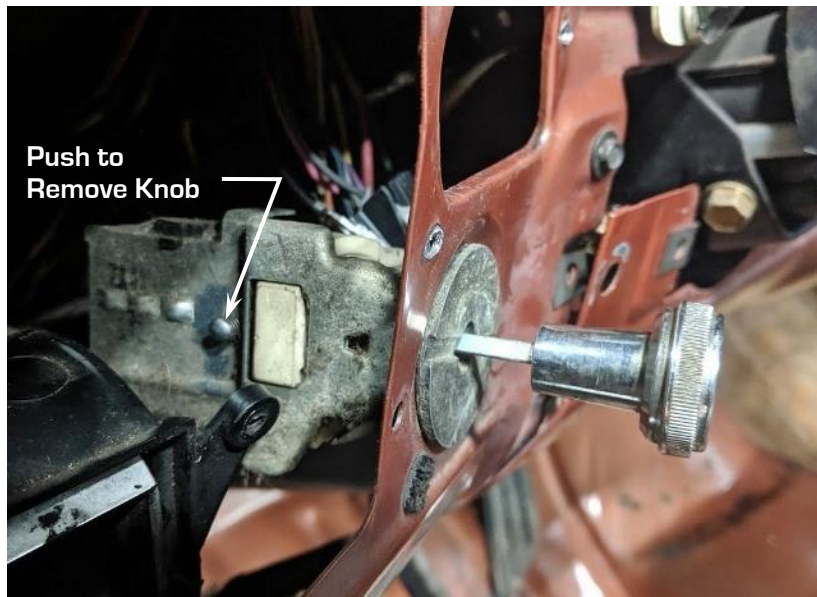


Figure 5 – Remove Headlight Knob

9. Remove the 2 screws holding the stock wiper switch to the dash (Figure 6 on the next page). Disconnect the wiper switch connector from the back of the wiper switch and remove the switch. For 1973-74 vehicles, tie up the original wiring under the dash and **skip to Step 23**. For 1975-77 vehicles, proceed to the next step. For 1978-83 vehicles, **skip to Step 11**.

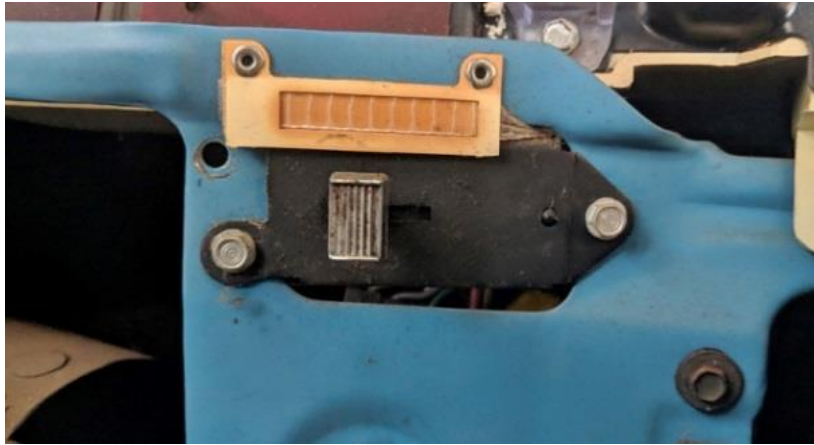


Figure 6 - Remove Factory Wiper Switch (1973-74 shown)

10. Once the switch is removed from the dash, remove the light bulb housing by turning it counter clock-wise in the switch housing. In order to use the LED light for the new wiper switch, you will need to cut the wires from the original light bulb housing. Cut the gray (positive) and black (ground) wires as close to the terminals as possible. **Skip to Step 12.**
11. Once the wiper switch is removed from the dash, you will need to cut the "A" and "E" wires from the back of the original wiper switch connector in order to use the LED light bulb (Figure 7). **NOTE:** The "A" wire is gray (positive) and the "E" wire is black (ground). Cut the wires as close to the terminals as possible.

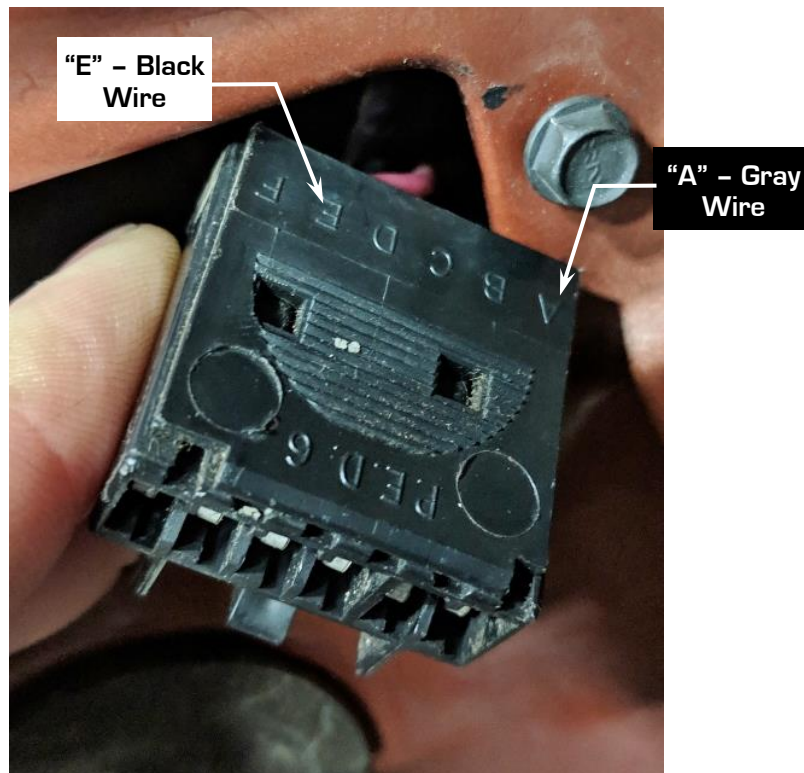


Figure 7 - Cut "A" & "E" Wires

12. Strip the wires in the vehicle that were cut for the light bulb, the wires on the provided dimmer, and LED wires for the provided two-wire T-junction connector. Use the indicator on the bottom of the T-junction connector to ensure that enough wire is stripped (Figure 8 on the next page).

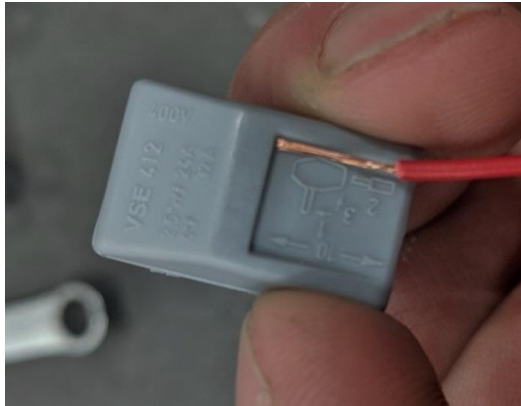


Figure 8 – Strip Wires for Connector

13. Remove the nut on the provided LED and insert the LED through the square hole on the front of the wiper switch LED light box assembly. Install the nut back onto the LED and tighten with a 8mm wrench (Figure 9).



Figure 9 – Install LED into Light Box Assembly

14. Remove the star washer and hex nut from the new wiper switch. Install the wiper switch through the back of the light box assembly. Make sure the anti-rotation tab on the wiper switch locks into the anti-rotation hole on the light box assembly (Figure 10).



Figure 10 – Insert Wiper Switch into Light Box

15. Install the star washer and hex nut that was removed in the previous step and re-install it onto the wiper switch. Tighten the wiper switch nut into the light box assembly using a 13mm

wrench (Figure 11). **NOTE:** Detroit Speed recommends using a zip tie to hold the LED wire and the wiper switch together. This will help protect the small LED wires from getting crushed, twisted, or bound up.



Figure 11 - Tighten Wiper Switch Assembly

16. Use the provided two-wire T-junction connector to safely connect the LED dimmer to the original wires from the wiper switch bulb. Ensure that you are connecting the “5-24V” side of the dimmer to the original truck wires. This is indicated on the label of the dimmer (Figure 12). Lift up the orange levers of the T-junction connectors. Using one of the connectors, feed the gray wire from the original harness into one hole and the red wire from the dimmer into the other hole until they bottom out. Using a second connector, feed the black wire from the harness into one hole and the black wire from the dimmer into the other hole until they bottom out. Close the orange levers to lock the wires in place. Gently pull to ensure that the wires are locked in place. **NOTE:** Instead of using the connectors, you may solder and heat shrink the wires together.

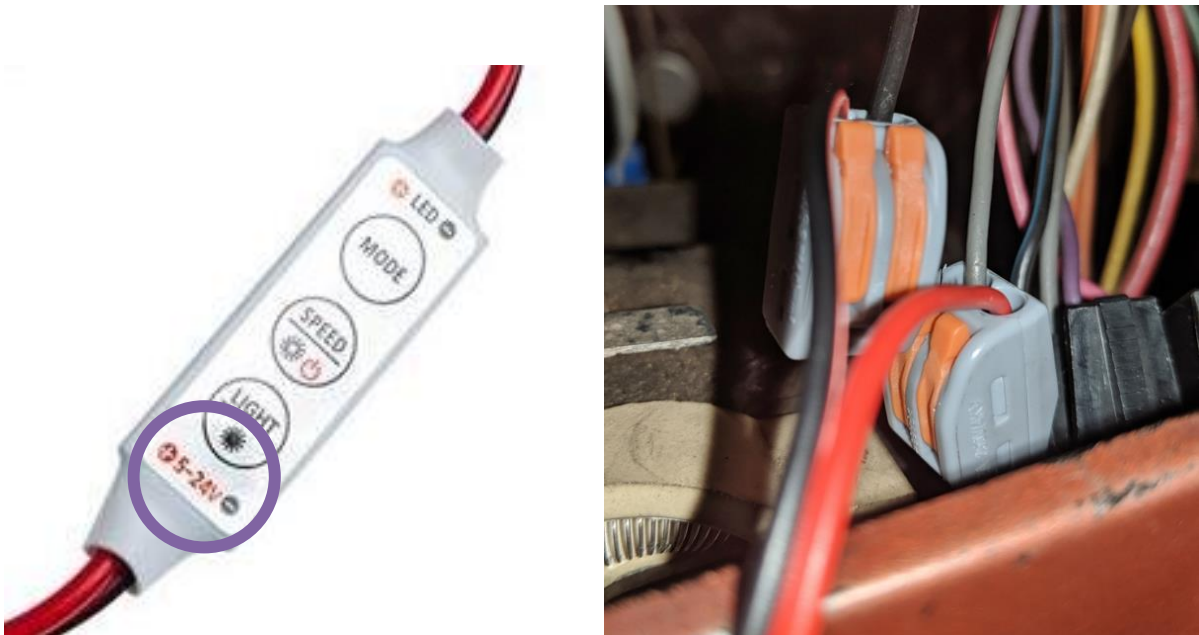


Figure 12 - Connect 5-24V side of LED Dimmer to Original Light Bulb Wires

17. Next, install another set of the T-junction connectors onto the other end of the LED dimmer (Figure 13).



Figure 13 – Install Connectors to LED Dimmer

18. Ensure that you are connecting the “LED” side of the dimmer to the original wires. This is indicated on the label of the dimmer. Insert the LED wires to the LED dimmer connectors paying close attention to the wire colors. The black wire on the LED should connect to the black wire on the dimmer and the red wire on the LED should connect to the red wire on the dimmer (Figure 14). **NOTE:** Instead of using the connectors, you may solder and heat shrink the wires together. Wiring the LED or dimmer backwards will not cause any damage. The components simply will not work properly.



Figure 14 – Connect LED to Dimmer

19. Before the gauge panel is re-installed, you will need to set your LED brightness on your dimmer. Make sure all electrical connections are completed and re-connect the negative battery lead to your battery. To set the dimmer, be sure that the dimmer is wired to the original light circuit (red to gray, black to black). It may be helpful to set your dimmer in a dark garage.
20. Place the provided acrylic wiper cover plate over the light box assembly and turn on the truck headlights. If the wiper LED does not illuminate, hold the middle “Speed/⚙️/Power” button until the wiper LED turns on. Press the “Light/☀️” button to activate static mode. In static mode, the middle “Speed/⚙️/Power” button will make the bulb dimmer. The “Light/☀️” button will make the bulb brighter (Figure 15). There are 10 different settings to match the brightness to your other gauges. **NOTE:** If the LED does not illuminate or respond to button presses, you may have one of the components wired backwards. Simply double check your wiring and fix as needed. Also ensure that the small LED wires are not crushed, twisted, or bound up.



Figure 15 - Three Buttons on LED Dimmer

21. The “Mode” button enters dynamic mode. This will cause the wiper LED to flash or flicker. This function is likely not desired for your wiper LED. If you accidentally enter this mode, hit “Light/☀️”. To confirm the correct settings, leave the wiper LED on and turn the truck lights off and then back on. The wiper LED should now turn on with the truck lights and remember the last setting.
22. Once you set the desired brightness, the dimmer will not require any further adjustment and may be tucked behind the dash with the switch wiring (Figure 16). Once you have the LED brightness set, disconnect the negative battery lead from the battery. **NOTE:** Take care in tucking the wires behind the dash. Ensure that the small LED wires are not crushed, twisted, or bound up as this could prevent the LED from working. **Skip to Step 24.**



Figure 16 - Set LED Brightness

23. Next, install the wiper switch adapter plate onto the Selecta-Speed wiper switch. Remove the switch hex nut and star washer from the switch. Position the switch anti-rotation tab into the anti-rotation hole located in the adapter plate (Figure 17). Hold the adapter plate to the wiper switch by threading on the switch hex nut and provided 3/8" AN washer and tighten.



Figure 17 - Install Switch Adapter Plate (1973-74 shown)

24. For the 1973-74 application, the original fasteners will be used to install the new switch assembly into the dash (Figure 18). For the 1975-83 application, place the provided acrylic wiper cover plate over the light box assembly. Use the provided No. 8 x 5/8" sheet metal screws to install the new switch assembly into the dash using a 1/4" socket (Figure 19).



Figure 18 - Install Wiper Switch (1973-74)
83)

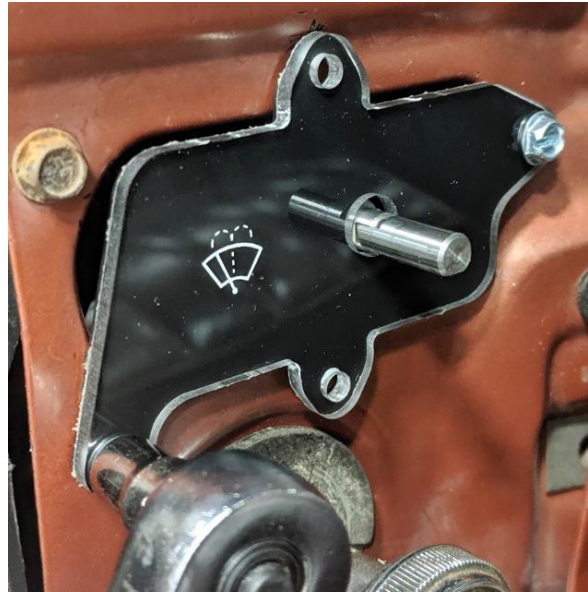


Figure 19 - Install Wiper Switch (1978-83)

25. Re-install the gauge panel to the dash using the original fasteners. Slide the wiper knob onto the shaft of the wiper switch. Align the set screw with the flat on the switch shaft and tighten (Figure 20 & 21). **NOTE:** Make sure the set screw locks onto the flat on the switch shaft.



Figure 20 - Install Wiper Knob (1973-74)



Figure 21 - Install Wiper Knob (1978-83)

26. Route the wiper motor connector side of the wiring harness (Figure 22) through the firewall using an existing hole if possible. You can also drill a new hole in the firewall using a 1-1/4" hole saw or Uni-Bit in order to allow the wiper motor connector to pass through the firewall. **NOTE:** For 1975-83 vehicles, there is an existing grommet in the firewall that can be used if opened up for the new wiper harness.



Figure 22 – Wiper Motor Connector

27. A rubber grommet is already installed on the wire loom from the wiper motor wires if needed. Once there is enough of the loom through the firewall to connect the wiper motor, move the grommet on the loom and install it into the firewall to seal the engine compartment from the inside of the vehicle (Figure 23 on the next page).



Figure 23 – Install Wiper Motor Harness

28. The Detroit Speed Selecta-Speed harness does include a weather pack connector to install an optional electric inline washer pump into your vehicle (Figure 24). Detroit Speed does offer a washer pump kit you can purchase separately as part number 121102.



Figure 24 – Washer Pump Connection

29. If you do not want to use the washer pump feature, you can tie wrap this connector/loom up under the dash. If you would like to use this option, use an existing hole or drill a new hole in your firewall to pass the connector through the firewall. You will need a 1-1/8" diameter hole in order to use the provided 1-1/4" rubber grommet. If you have purchased the Detroit Speed washer pump kit, use the instructions from that kit to complete the washer pump kit installation.
30. Next, you will need to install the wiper control module under the dash. It can be mounted anywhere you prefer with the provided 5/16" bolt, washer & Nylock nut, however there is a recommended location next to the kick panel, above the hood release.
31. Use a 1/2" socket to remove the bolt above the hood release. Remove the air vent for best access to this bolt. Slide the module mounting plate in between the kick panel and the sheet metal. Line up the hole in the mounting plate and the factory bolt hole. Re-install the original bolt through the mounting plate and tighten (Figure 25).



Figure 25 - Mount Control Module

32. With the wiper control module in place, plug in the wiper switch and wiring harness connectors into the control module (Figure 26).

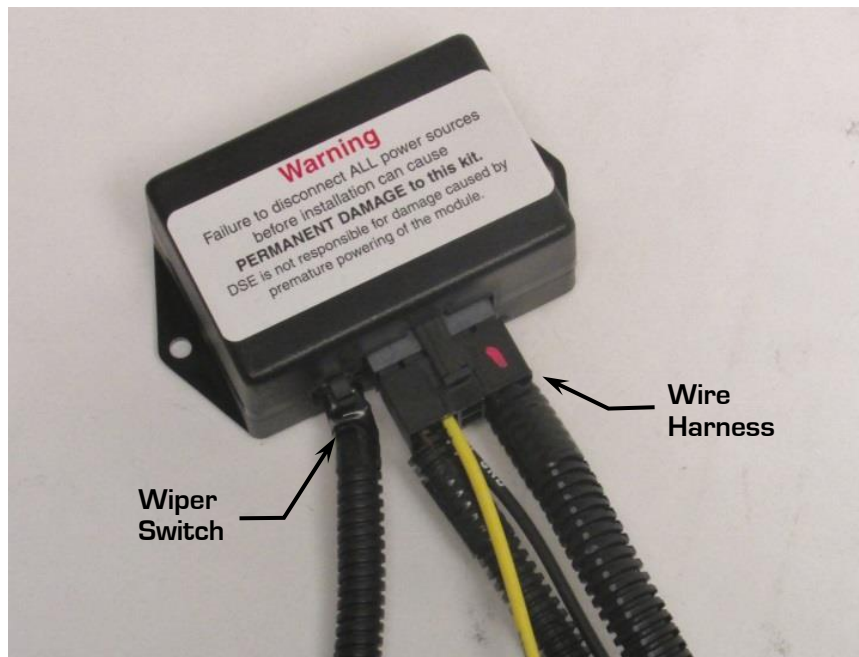


Figure 26- Connect Wiper Switch & Harness to Module

33. Connect the yellow wire under the dash to a 12V ignition or accessory switched source. [Circuit is active when the key is in the run position]. This lead is supplied with an inline 30 amp ATO fuse.

34. Connect the black wire with the round eyelet to a ground located under the dash. Make sure a proper ground is obtained by removing any rust or paint from the metal.
35. Connect the negative battery lead and test the wiper system. Upon a successful test, the wiper conversion is now complete. Secure the new wiring harness under the dash and in the engine compartment. Re-install the cowl panel along with any other components that had been removed.

NOTE: In some cases high energy ignition systems have caused interference with the correct operation of the Selecta-Speed Wiper Kit due to spark plug wires routed closely to the wiper motor. If this occurs, re-routing your spark plug wires may be necessary.

If you have any questions before or during the installation of this product please contact Detroit Speed Inc. at tech@detroitsspeed.com or 704.662.3272

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