

PETERBILT INSTALLATION INSTRUCTIONS:

1. Place a piece of masking tape on the windshield marking the location of the wiper blade in its "at rest" position. This is to help align the new Wiper Assist™ when installing during step 15.
2. Disconnect the factory windshield washer dispenser and line by prying the cover from the top with a small screwdriver or suitable tool. Then, remove the dispenser retention clip with hose from the factory wiper spring and let these items hang to the side. The pieces will be reused once the Wiper Assist™ kit is assembled.
3. Remove the factory wiper arm by removing the plastic cover hiding the attachment fastener, then use a 13mm or ½" socket or wrench to loosen the nut. It helps sometimes to use the wrench as a leverage bar between the wiper base and wiper post to release the tension holding down the wiper arm assembly.
4. Drill a (9/16") hole through the cowl for the air line bulkhead fitting. The location of the hole will be 3 ¼" (90 mm) to the left of the wiper shaft center while looking down at the shaft from outside of the vehicle. This is the same dimension for both the driver's and passenger's side windshield wiper. (see top photo)
5. Moving inside the cab of the Peterbilt, remove the three dash panels. If a passenger side Wiper Assist™ is also being installed then the glove compartment liner will have to be taken out.
6. Use a small amount of sealant for the bulkhead fitting then place the unit in the hole and attach the nut. Then secure the fastener being careful to not strip the threads. It helps to have a second person holding the piece from the inside the cab while tightening.
7. Now locate a suitable non-critical ¼" air line. This could be an auxiliary tap usually available by the main cab bulkhead or a seat line, window line, etc.
8. After bleeding down the main air pressure, splice into this line and connect into the supplied ¼" "T" fitting. The open end of the "T" will need a suitable length air line running from it to the control valve. The length of the line will depend on where the splice into the power is located. The line will be connected to the control valve in step 11.
9. It is now time to mount the control valve. It needs to be mounted as close as possible to the bulkhead fitting without interfering with the wiper linkage. The valve can be nylon tied in place to an existing bracket.
10. Before mounting the control valve please make sure that the electrical connector is attached with the supplied screw and run the wires out of you way for later.
11. The ¼" pressure line from the "T" can now be run up to the control valve and inserted into the push-to-connect marked "1".
12. Now connect a short ¼" air line from the "2" on the control valve to the bulkhead fitting's push-to-connect. It is a tight fit installing the line up near the wiper linkage. The length of the line will vary as to where the control valve is mounted but should measure under 12". (see attached middle photo)
13. Figure out the best location for the supplied momentary control switch and drill a 15/32" or 31/64" hole to mount the switch. Attach the momentary control switch to its holder with the nuts provided on the switch.

14. Locate and tap into a fused, constant or switched power 12 volt circuit or line.
15. Connect the power line to one of the sides of the solenoid. It does not matter which one.
16. Connect the other side of the solenoid valve to one of the leads of the momentary switch.
17. Connect the other lead from the momentary switch to a good ground “-“.
18. Test the circuit by activating the momentary switch, a small “clicking” sound should be heard from the control valve.
19. Re-install the factory dash panels.
20. Moving back outside the vehicle, connect a 12” long ¼” line to the bulkhead push-to-connect.
21. Mount the supplied wiper blade to the Wiper Assist™.
22. Mount the Wiper Assist™ to the wiper shaft, aligning the blade with the previously taped line from step one.
23. Tighten the nut onto the wiper shaft.
24. Re-install the factory windshield wiper washer hose, retention clip and dispenser to the same locations as removed but now on the Wiper Assist™ assembly.
25. Connect the ¼” line from the bulkhead to the Wiper Assist™ push-to-connect. (see attached bottom photo)
26. Start the vehicle to establish air pressure, once above 80 lbs, test the Wiper Assist™ by pressing on the momentary control switch. For each firing of the button, the unit will respond by lifting off the glass. The longer you hold the button the longer it will stay off the glass.

INSTALLING TWO WIPER ASSIST™ UNITS:

The main difference between one and two unit installation are:

1. When installing two units the main air supply line will have a second “T” in it to split the power line in two so that each air control valve will have the necessary power to operate. (see illustration)
2. When drilling the hole for the passenger side Wiper Assist™ remember that the location is to the left (outboard) of the wiper shaft.
3. Two holes will have to drilled in the dash for the momentary action control switch.
4. The 12 volt power line can be split between the two control switches but each solenoid valve has to have its own supply line from its own control switch.