



## 3<sup>rd</sup> Generation (02-09) Dodge Ram Installation Instructions

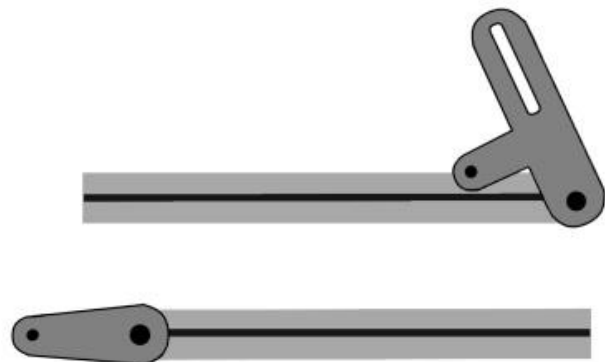
*Instructional Videos are Available on [www.BlendDoorUSA.com](http://www.BlendDoorUSA.com)*

1. Evacuate the A/C refrigerant and remove the HVAC box from the vehicle per the manufacturer's instructions.
2. Remove the recirculation housing from the passenger side of the HVAC box. Remove the electrical actuator from the recirculation door. Grasp the plastic driver with a pair of pliers and firmly pull it to release it from the housing. Pull the plastic door out and replace it with the aluminum replacement. Insert the new aluminum driver or your original plastic driver through the housing to hold the door in place. Reconnect the actuator. Set the housing out of the way for now.
3. On the driver's side of the box, remove the upper actuator, remove the Panel/Floor door cover plate, and then remove the Panel/Floor door housing from the box. Pull out the plastic driver to release the door and remove the door. Install the aluminum door and the aluminum driver or your original plastic driver. Reinstall the Panel/Floor door housing, the cover plate, and actuator back on the main box.
4. Flip the box over so the bottom is on top. Disconnect all electrical connectors from the lower half of the housing, remove the heater core, and disconnect the linkage rod(s) between the blend doors. Remove the 15 screws holding the upper and lower half of the HVAC box together. Lift up on the lower housing (which is on top) to separate the two halves.
5. Remove the defroster door actuator and pull out the plastic driver. Remove the plastic door and install the aluminum replacement. Install the aluminum driver or your original plastic driver and reinstall the actuator.
6. **MEGA CAB MODELS ONLY:** If you purchased the optional intermediate cam gear upgrade, remove the old cam gear by pulling it out of the box and install the new one. Tighten down the retaining bolt and install the lock nut. Connect the linkage rod to the driver of the defroster door.

**NOTE: The following steps involve installing the upper and lower blend doors. The drivers with cams for the upper and lower blend doors are drilled off-center to prevent them from working their way loose and will only fit in one direction. When installing the upper and lower blend doors, align the cams with the doors in accordance with Figure A for Single Zone and Figures A and B for Dual Zone. Ensure the drivers fully enter their counter-bore when installing.**

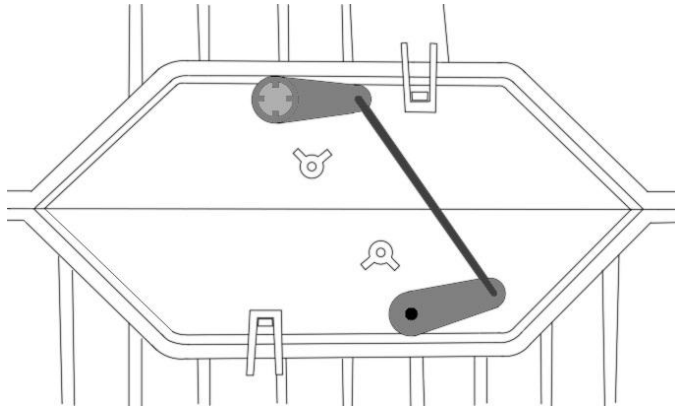


**Figure A**

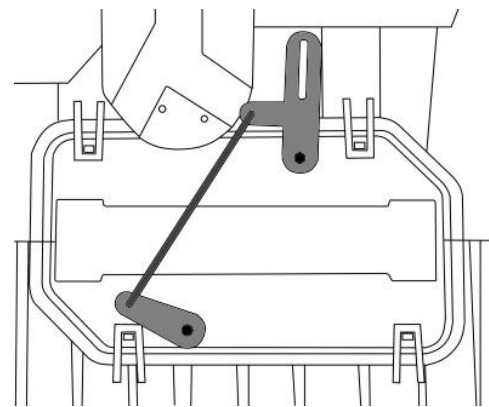


**Figure B**

7. Pull the lower blend door housing from main box, remove the plastic driver on each side, and pull the plastic door from the housing. Install the new lower blend door and bolt on the drivers to mirror the position in **Figure C**. Do not tighten the bolts at this time. **NOTE: Single Zone** systems have the driver with cam lever on the seat side (**Figure C**) of the box; **Dual Zone** systems have yellow paint on the seat side driver with cam (**Figure C**) and blue paint on the firewall side driver with cam (**Figure D**).
8. **Single Zone** systems: remove the blend door actuator from the upper door on the seat side. **Dual Zone** systems: remove the actuator on each side of the box. Remove the upper blend door housing from the main box; remove the upper blend door from the housing by pulling out both plastic drivers and pulling the door out. Insert the new aluminum blend doors and the new drivers or your original plastic drivers. Do not tighten the bolts at this time. **NOTE: Single Zone** systems have the driver with cam on the seat side (**Figure C**); **Dual Zone** systems have no paint on the seat side (**Figure C**) and red paint on the firewall side (**Figure D**).



**Figure C**



**Figure D**

9. Put both blend door housings together outside of the main box and install the linkage rod(s). **Single Zone** systems re-use the OEM rod; **Dual Zone** systems come with two new rods that are painted to match the drivers with cams. Manually close the blend doors to depress the foam and tighten the bolts holding the drivers to the doors. **Dual Zone** systems need to adjust each side of the blend doors independently. Adjust until both doors close and depress the foam equally. Reinstall both upper and lower blend door housings into the main HVAC housing. **NOTE: Dual Zone** systems must check to ensure the upper driver with cam (**Figure D**) does not contact the housing around the heater core lines. There should be approximately 1/4 inch clearance between the driver cam arm and the housing with the doors fully closed.
10. Put the two main halves of the HVAC box together and reinstall all the screws. Reinstall the heater core and reconnect the linkage rod(s) between the blend doors. Reconnect all electrical connectors.
11. Reinstall the recirculation door housing and connect the electrical connector.
12. Double check the box to ensure all screws are installed, all actuators are in place, and all the electrical connectors are connected.
13. Reinstall the HVAC box in the vehicle and recharge the air conditioner system.
14. Leave us a review on our website.