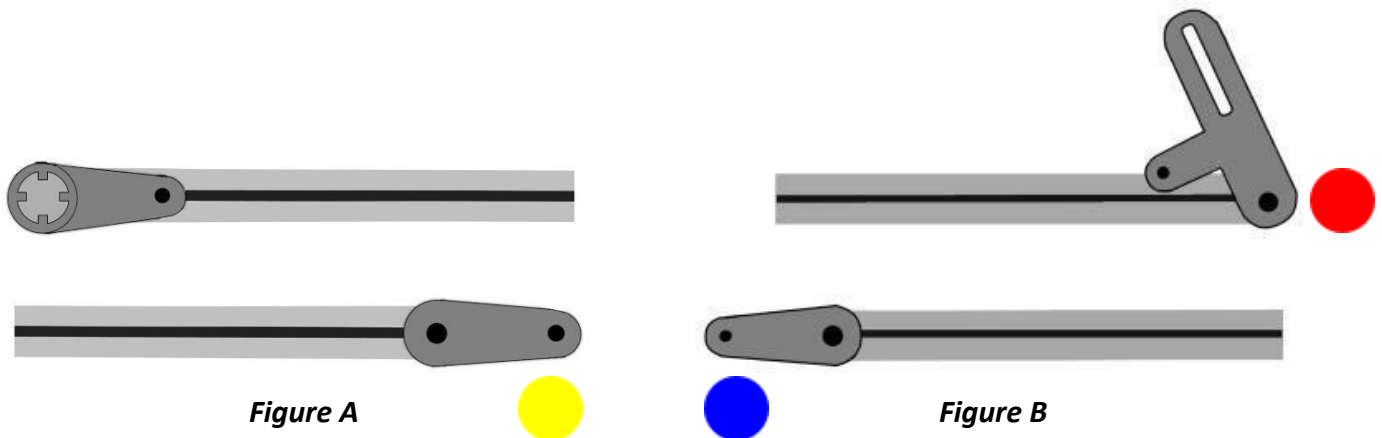


## 3<sup>rd</sup> Generation 02-08 (1500 series) & 03-09 (2500-5500 series) Dodge Ram Installation Instructions

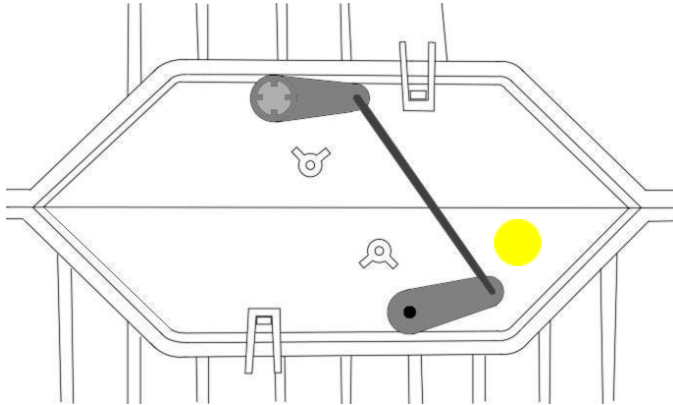
*Instructional Videos are Available on [www.BlendDoorUSA.com](http://www.BlendDoorUSA.com)*

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. **All actuators know no timing. If the door is open, the motor will turn till it finds resistance. (Read our actuator research on the front page of our website.)** 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 and save for the reinstallation. 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.

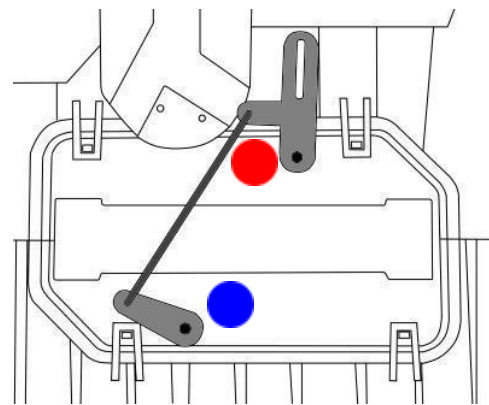
**NOTE: The following steps involve installing the upper and lower blend doors. The drivers are not all shipped as they will be installed due to protecting the component. When installing the upper and lower blend doors, align the cams with the doors in accordance with Figure A for Single Zone and Figures A and B for Dual Zone. Ensure the drivers fully enter their counter-bore when installing. (The drivers can only time zero or 180 out.)**



7. **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. **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**

8. Put both blend door housings together outside of the main box and install the OEM linkage rod between the purple clips. Reinstall both upper and lower blend door housings into one of the main HVAC housings. **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 1/8-inch clearance between the driver cam arm and the housing with the doors fully closed.
9. Put the two main halves of the HVAC box together and reinstall all the screws. Reinstall the heater core and inspect the linkage rod(s) to be sure they are freely moving. **Before you reinstall the blend door actuators, make sure the doors are moving freely.** Reinstall all actuators and reconnect all electrical connectors.
10. Reinstall the recirculation door housing and connect the electrical connector.
11. Double check the box to ensure all screws are installed, all actuators are in place, and all the electrical connectors are connected.
12. Reinstall the HVAC box in the vehicle and recharge the air conditioner system.
13. Leave us a review on our website.

If you have further questions email [contact@blenddoorusa.com](mailto:contact@blenddoorusa.com) or call 810-366-0185. (MICHIGAN EST.)

Thank you for choosing BLEND DOOR USA! GO USA!!

### **An Important Note on Door Actuators**

Blend Door-USA strongly recommends that you only use OEM actuators. Based on customer feedback, nearly all actuator failures were due to using **aftermarket actuators**. For more information visit the link below:

<https://www.blenddoorusa.com/pages/note-on-actuators>