

CT Race Worx Polaris Differential Bracket Installation Instructions

Parts List: Driver and passenger side brackets; 1 large shim w/CT logo; 4 small shims; 2 – 12 x 1.25 nylock nuts

Tools needed: T40 Torx; T50 Torx; 15 mm socket and wrench; 16 mm socket; 18 mm socket or wrench; torque wrench; pry bar or large flat screwdriver; small pry tool or flathead screwdriver

Approximate installation time: **2 hours**

Step 1: Remove rear tray insert, rear fascia plastics and muffler (muffler not 100% necessary but it makes things easier)

Step 2: Remove all hardware noted with green arrows in pic 2 & 3

Step 3: Carefully unclip differential vent from 2 chassis clips and fitting on chassis (pic 4 & 5) using small pry tool or flathead screwdriver

Step 4: Remove driver side diff bracket (pic 6), slide towards front of vehicle

Step 5: Using your pry bar or large flat screwdriver, insert the end through the tow point hole to lift the differential slightly upward and forward, while at the same time removing the passenger side bracket from the chassis by lifting upward and then outward towards the passenger side of the vehicle (pic 7)

Step 6: Pull the vent line through hole in factory bracket

****Pic 8 –** Your car should now look like this in preparation to install the CT brackets

Step 7: Starting with the passenger side bracket, feed the vent line through the opening in bracket (Pic 9); then install the bracket in reverse order of Step 5 (you will have to move the diff around in order to get the bracket in place)

Step 8: Insert driver side bracket and loosely install all upper bracket hardware (Pic 10 & 11)

Step 9: Time to install the CT Diff Mount Shim Kit. Begin with the driver side, one piece shim (Pic 12 & 13). Note if there are any remaining gaps on passenger side of upper & lower mounting locations. If so, use the remaining single shims and insert to close the gap (Pic 14 & 15) ****Important notes, depending upon your car, you may or may not need any or all of the shims. ONLY insert them if they can fill the gap freely, DO NOT force them in! Anything more than two shims on the RIGHT side, will require the shallow nut supplied in the hardware kit.**

Step 10: Once shimmed properly, torque the front two diff mount bolts to 55 ft/lbs PLUS 180 degrees. (We suggest marking the bolt head to help indicate the 180 mark) (Pic 16), we have found this to equal roughly 100ft/lbs

Step 11: Next torque the differential to bracket bolts (green circle) to 55 ft/lbs PLUS 180 degrees, we have found this to equal roughly 100ft/lbs. Lastly, torque the bracket to frame bolts (red circle) to 44 ft/lbs. (Pic 17) Route vent line to factory clip locations and secure

Step 12: Reinstall muffler, rear fascia plastics and tray insert.



