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## Vanagon Rear Big Brake Installation

Part Number: RDBK

*Immediately upon delivery, open all packages and check the contents of the shipment. Report any issues directly to SCP within 15 days. After 15 days, SCP will not be responsible for missing or damaged items.*

### INSTALLATION INSTRUCTIONS

***These instructions apply to part number RDBK. They will instruct you on the installation of the Small Car Rear Disc Brake Conversion kit onto any Volkswagen Vanagon.***

1. Remove the stock VW rear axle nuts, drums, hubs, and backing plates.
2. Detach the emergency brake cables at the front and the rear.
3. Now you must do one of the following:
  - a. Machine the outer diameter of the rear hubs to approximately 135mm (5.4") yourself.
  - b. Mail your rear hubs into Small Car and have us machine them for free. Just pay for the shipping.
4. Cut and remove the springs on the rear ends of the emergency brake cables leaving them about 1 1/4" long as the helper springs
5. Thoroughly clean all the rust off the trailing arm where the new adapter plates will contact the surface of the arm. This may involve some grinding.
6. Use Loctite® on all the bolts and nuts in the upcoming steps.
7. Bolt the supplied adapter plate onto the trailing arm so the caliper holes are facing the rear of the van. Through-bolts are used on the holes on the very top and very bottom. The other holes are self threaded.
8. Torque the 8 mm caliper frame to caliper bolts to 26 lb/ft and all the 10mm bolts and nuts to 48 lb/ft.
9. Install the supplied bracket as shown to hold the hydraulic hose. (see photo)
10. Attach the machined hubs onto the axles and fit the rotors onto the hubs.
11. Slide the supplied calipers over the rotors and attach to the adapter plates so that the emergency brake mechanism is below the caliper. The bleeder valves should be at the top of the caliper.
12. Check for rotor clearance to the slot in the caliper frame. A minimum of .030" is necessary. If the proper clearance is not there, recheck.
13. Install the brake hose as shown (see photo).
14. Remove the nuts at the front of the emergency brake cables and pull them out of the frame.
15. We recommend using a new 2WD emergency brake cable for the right side of Syncro because of the additional length needed.
16. Place the supplied tubing over the front of the emergency brake cables and reinsert them into the frame (see photo).
17. The brake cable hanger that attaches to the trailing arm should be detached and will be installed in another spot after the cable is reinstalled.
18. Use the supplied backing washer at the rear end of the brake cable and install the cable onto the caliper. Use a pry lever for clearance if needed (see photo).

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## **2WD FRONT BRAKE UPGRADE INSTRUCTIONS**

19. The cables can now be reattached to the bracket at the front and the hanger reattached to the trailing arm.
20. Adjust the tension at the front of the cables so the slack is gone but the levers on the calipers are still in the released or off position.
21. Pull the emergency brake handle up and down 20-30 times. Now check the cable tension under the van and repeat the procedure again if needed.
22. Bleed the brakes and reinstall your wheels. The rotors are slightly thicker than the original drums so if your wheel studs were already on the short side because of non-stock wheels, you may need longer studs.