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2WD FRONT BRAKE UPGRADE: EARLY VANAGON: 1980-1985

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.

HARDWARE

- (1) AXLE NUT
- (1) BRAKE PAD (SET)
- (1) STEEL SPACER (PAIR)
- (1) CALIPER CARRIER (SET)
- (1) CALIPER SET (LEFT & RIGHT)
- (2) BRAKE HOSE
- (2) ROTOR
- (2) HUB WITH 50MM STUDS
- (4) M8 X 1.25" X 20MM
- (4) BOLT 14 X 1.5" X 60MM
- (4) NUT 14 X 1.5"
- (8) 0.048" SHIMS

- (4) SLIDER PINS
- (4) RUBBER BOOTS

OPTIONAL UPGRADE COMPONENTS

- (2) INNER FRONT WHEEL BEARING
- (2) OUTER FRONT WHEEL BEARING
- (2) WHEEL BEARING SEAL
- (2) STAINLESS STEEL BRAKE HOSE
- (2) VENTED AND CROSS DRILLED ROTOR
- (2) STAINLESS STEEL DUST SHIELD
- (6) M6 X 1.0" PAN HEAD PHILLIPS SCREW

TOOLS REQUIRED

- SOCKET SET
- OPEN END WRENCH SET
- TORQUE WRENCH CAPABLE OF 200 FT. LBS.
- 9/16" DRILL BIT

NOT INCLUDED

- LOCTITE® - RED 271
- WHEEL BEARING GREASE
- BRAKE LUBE
- BRAKE FLUID

INSTALLATION CONSIDERATIONS

- YOU ARE PERFORMING AN UPGRADE ON AN ESSENTIAL SAFETY SYSTEM ON YOUR VEHICLE. PLEASE READ THOROUGHLY ALL INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING ANY WORK. IF THIS INSTALLATION IS BEYOND YOUR CAPABILITIES, PLEASE HAVE A PROFESSIONAL TECHNICIAN PERFORM THE INSTALLATION.

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INSTALLATION

INSTALL WHEEL BEARINGS

1. Install new inner and outer wheel bearings and seals into the wheel hub assembly and pack with a liberal amount of grease.



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INSTALL DUST SHIELDS (IF SELECTED)

1. With the SCP logo facing towards the front of the van, secure the dust shield with three M6 X 1.0" Pan Head Phillips Screws.

DRILLING SPINDLE CALIPER MOUNTING HOLES

1. For easiest assembly you must now drill out the two caliper mounting holes on each spindle.
2. These holes can be drilled out with a 9/16th bit. Once drilled out they should look like the holes in the image to the right.



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INSTALL WHEEL HUB ASSEMBLY

1. With newly installed bearings, fit the wheel hub assembly onto the spindle.
2. Reinstall the washer and install the new axle nut.
3. We recommend “peening” the nut into both spindle grooves to keep it from loosening or backing out.
4. Reinstall the bearing cap.



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INSTALL ROTOR

1. Slide the rotor over the wheel hub assembly and studs.
2. It can be helpful to secure the rotor with one or two of the wheel nuts



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ASSEMBLE CALIPER CARRIER

1. Stretch the rubber boot over the slider pin and place the bolt in the end of the slider pin.
2. Grease up the slider pin and insert it into the caliper carrier.
3. Stretch the other end of the boot over the metal eyelet on the caliper carrier.



PREPARE CALIPER CARRIER

1. Before installing the caliper carrier, lube the brake pad mounting points on the caliper carrier with brake lube.



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INSTALL CALIPER CARRIER

1. Insert both M14 bolts through the backside of the spindle.
2. Install the appropriate spacer – they are marked with a “L” or “P” for the passenger side and “D” or “R” for driver side – over the protruding M14 bolts. The thicker end of the spacer is on the bottom.
3. Then, you must use the supplied shims between the caliper carrier and the spacer. The amount and location of the shims will vary based on the year of production. You will need to install and check until there is even spacing between the rotor and caliper carrier at both the top and bottom of the assembly.



4. Apply thread locker (we prefer Loctite® 271™), to the ends of both bolts.



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4. Install the brake caliper carrier over the rotor and slide the bolts through to hold it in place.
5. Carefully hold the M14 nuts between the carrier and rotor until threaded onto the bolts.
6. Torque the M14 bolts to 200 ft. lbs.



PREPARE BRAKE PADS

1. In this application brake pad sensors are not used. Remove sensors and discard.
2. Lube the outside of both brake pads with brake lube.



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INSTALL BRAKE PADS

1. Insert brake pads into caliper carrier.
2. *Pay careful attention that the anti-rattle clips are on the outside and away from the rotor.*



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CONNECT BRAKE HOSE

1. First, connect brake hose (rubber or stainless) to caliper.
2. Second, connect the brake hose and caliper to existing brake line making sure the caliper hangs with the brake hose towards the inside of the van. This prevents twisting the brake line when installing the caliper onto the caliper carrier.



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INSTALL BRAKE CALIPER

1. Apply thread locker (we prefer Loctite® 271™), to the ends of both M8 bolts.
2. Secure the caliper to the caliper carrier and torque to 20 ft. lbs.
3. If you notice the brake line twisting and making it difficult to install the caliper, you will need to review previous steps.



FILL AND BLEED BRAKE SYSTEM

1. Fill and bleed brake system according factory specifications as outlined in Bentley Manual (47.8).
2. **Please note:**
 - **Be careful not to overtighten bleeder nut.**
 - **Don't forget to reinstall rubber bleeder cap.**

**CONGRATULATIONS!
YOU'RE DONE.**