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2WD FRONT BRAKE UPGRADE: LATE MODEL: 1986-1991

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. (1) AXLE NUT
2. (1) BRAKE PAD (SET)
3. (1) STEEL SPACER (PAIR)
4. (1) CALIPER CARRIER (SET)
5. (1) CALIPER SET (LEFT & RIGHT)
6. (2) BRAKE HOSE
7. (2) ROTOR
8. (2) HUB WITH 50MM STUDS
9. (4) M8 X 1.25" X 20MM
10. (4) BOLT 16 X 1.5" X 60MM
11. (4) NUT 16 X 1.5"

12. (4) SLIDER PIN
13. (4) RUBBER BOOT

OPTIONAL UPGRADE COMPONENTS

14. (2) INNER FRONT WHEEL BEARING
15. (2) OUTER FRONT WHEEL BEARING
16. (2) WHEEL BEARING SEAL
17. (2) STAINLESS STEEL BRAKE HOSE
18. (2) VENTED AND CROSS DRILLED ROTOR
19. (2) STAINLESS STEEL DUST SHIELD
20. (6) M6 X 1.0" PAN HEAD PHILLIPS SCREW

TOOLS REQUIRED

- SOCKET SET
- OPEN END WRENCH SET
- TORQUE WRENCH CAPABLE OF 200 FT. LBS.

NOT INCLUDED

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

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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 with three M6 X 1.0" Pan Head Phillips Screws.



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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.



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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.

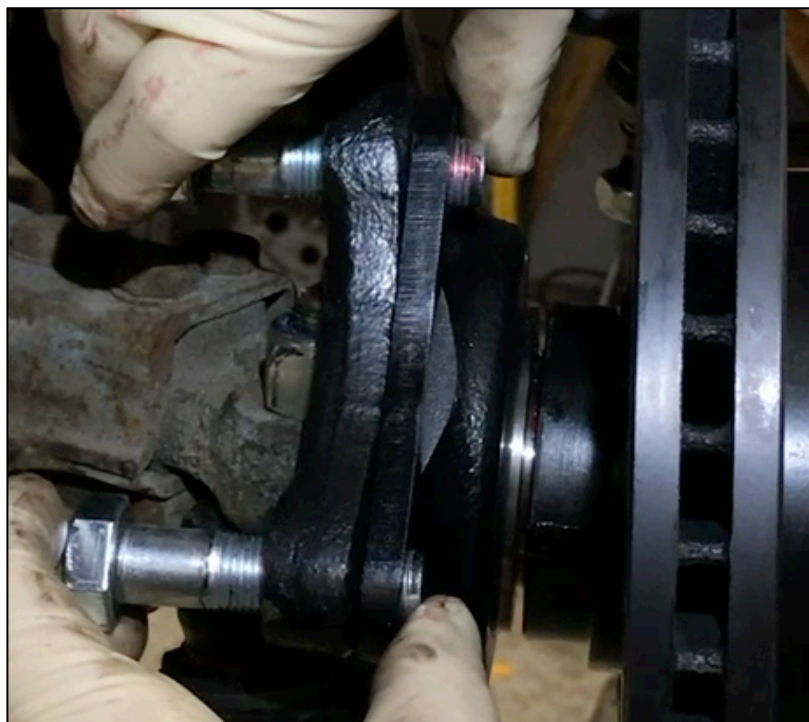


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INSTALL CALIPER CARRIER

1. Insert both M16 bolts through the backside of the spindle.
2. Install the spacer over the protruding bolts.
3. Apply thread locker (we prefer Loctite® 271™), to the ends of both bolts.
4. Install the brake caliper carrier over the rotor and slide the bolts through to hold it in place.
5. Carefully hold the M16 nuts between the carrier and rotor until threaded onto the bolts.
6. Torque the M16 bolts to 200 ft. lbs.



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PREPARE BRAKE PADS

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

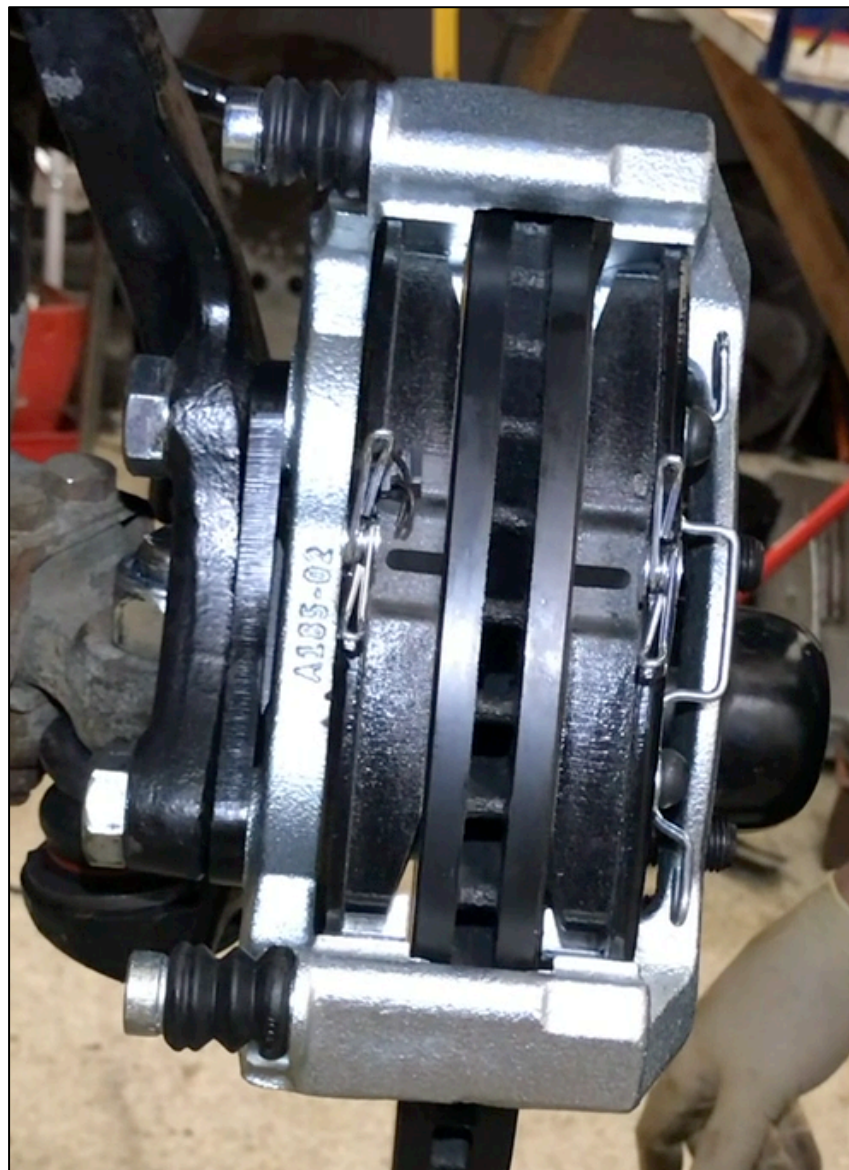


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INSTALL BRAKE PADS

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.