



SPARTAN CHASSIS, INC.

NHTSA # 04V-311

RSB04-250-001

December, 2004

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RECALL SERVICE BULLETIN

SUBJECT: Brakes Overheating

APPLIES TO: Spartan Chassis Models with a Vehicle Date of Manufacture (VDM) Between 02-01-1999 and 05-31-2002, Equipped with Bosch ZOPS Hydraulic Disc Brake Calipers.

CONDITION: Driver may feel brake caliper(s) 'hanging up' or 'dragging'; there may be a reduction in braking power; and/or passengers may smell the overheating of brake components.

CAUSE: Brake Calipers Sticking

CORRECTION: Replace brake calipers and pads.

SPECIAL INSTRUCTIONS:

The procedure contained in this bulletin must be performed within the guidelines of the most recently published version of the Bosch Pin Slide Disc Brakes Technical Service Manual, currently dated January-2004.

Order the appropriate kit based on vehicle application. One kit per vehicle.

**PLEASE READ THE ENTIRE BULLETIN BEFORE
PROCEEDING WITH ANY WORK.**

PART / SERVICE INFORMATION:

Labor Hours: 6.0 Hrs.

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	S-1631-001	Kit- Bosch Caliper- Motor Home & Legacy Bus
1	S-1631-002	Kit- Bosch Caliper- Carpenter Bus

Technical Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of product specific nature in conjunction with industry standards. Professional Technicians are appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



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Kit S-1631-001 contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
4	0204062354	Bosch K2-66 Kit- Caliper assembly w/bleed screw
4	0204062356	Bosch K3 Kit- Guide pin boots, grease, brushes
4	0204062357	Bosch K4 Kit- Guide pin, locating pin, bolts
2	4153301	Brake Pads/Slippers (HX7A1)
1	RSB04-250-001	Document- Bulletin Instructions

Kit S-1631-002 contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
4	0204062355	Bosch K2-73 Kit- Caliper assembly w/bleed screw
4	0204062356	Bosch K3 Kit- Guide pin boots, grease, brushes
4	0204062357	Bosch K4 Kit- Guide pin, locating pin, bolts
2	4153300	Brake Pads/Slippers (HX7A1)
1	RSB04-250-001	Document- Bulletin Instructions

STEP-BY-STEP INSTRUCTIONS:

1. Observe all industry safety standards and secure vehicle to allow for replacement of the front and rear brake calipers two (2) per axle.

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- ◆ Instructions provided are for replacement of one caliper assembly with brake pads. Perform **ONLY ONE** caliper replacement at a time due to brake fluid reservoir volume.
 - ◆ Repeat the procedure for each of the three (3) remaining caliper assemblies.
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2. Remove and cap inlet brake line hose.
3. Remove and properly dispose of caliper mounting bolts and guide pins.
4. Remove and properly dispose of caliper assembly and brake pads.

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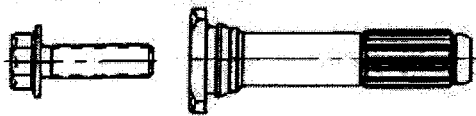
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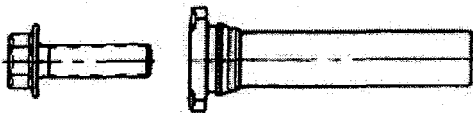
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ZOH-T Caliper guide pins and mounting bolt after June 3, 2003

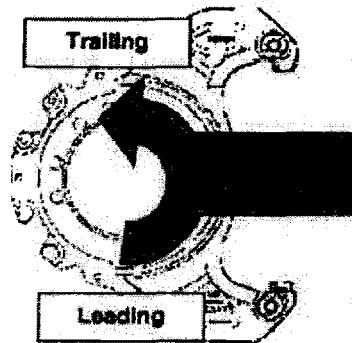


ZOH-T Trailing Guide Pin



ZOH-T Leading Guide Pin

FIG. 2-1



Definition of leading and trailing positions:

- Rotor rotation is for a vehicle moving forward.
- View rotor from outside of vehicle.

FIG. 2-2

5. Clean and prepare anchor plate.
6. Install leading and trailing pins.

Refer to FIG. 2-1. The rubber bushed guide pin is always installed in the trailing position. Refer to FIG. 2-2 for the definition of leading and trailing positions.

7. Position caliper assembly over leading and trailing pins.
8. Install both caliper mounting bolts FINGER TIGHT.
9. Torque the LEADING mounting bolt completely to 93 – 107 lb-ft (126-145 Nm).

Note: The leading bolt is always tightened first.

10. Torque the TRAILING mounting bolt completely to 93 – 107 lb-ft (126-145 Nm).
11. Install new inner and outer brake pads and slippers.
12. Reassemble brake hose retaining fastener, and caliper inlet line.
13. Bleed brakes when all calipers have been replaced.

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