

RUNNING CLEARANCE QUICK **INSPECTION**

CAUTION: FOLLOW ALL SAFE MAINTENANCE PRACTICES.

On level ground, with the wheels chocked and the parking brake temporarily released, verify there is sufficient running clearance between the pads. Using hand pressure only (no tools), check for inboard/ outboard movement of the brake caliper. Small movement of less than 0.08 in. (2 mm) approximately the thickness of a nickel - indicates that there is sufficient running clearance and the caliper is sliding freely. For a more accurate reading, a dial indicator may be used to measure running clearance. The recommended running clearance range is 0.024-0.047 in. (0.6-1.2 mm). Fail if the caliper movement or running clearance are unable to be confirmed. - PASS/FAIL



Bendix technical documents (such as SD- 23-5471) can be found at the online Document Library at Bendix.com.



Do any other brake pads OR rotors on the vehicle YES 🗸 have bright red dust OR white residue?





PASS 🗸

FAIL (X)

Inspect all hoses, caps, covers, and the brake exterior for damage or kinks (check at full left and right steering lock).

PASS (within

0.6-1.2 mm tolerance

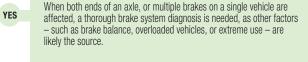
Can both inboard and

- YES/NO

outboard pads be removed

from the caliper by hand?

- PASS/FAIL



Air Disc Brake OK.

Replace components as needed with *genuine* Bendix® parts.

Perform Guide Pin Bearing

Inspection (Sec. 4.5 of SD-23-7541).

Reference Instructions in *Bendix*

Confirm that the return spring

is not broken and the actuator

pushrod does not touch the

Actuator pushrod should not

extend more then 12 mm

from the rubber seal.

- PASS/FAIL

Technical Bulletin (TCH-023-007), then

proceed to Guide Pin Bearing Inspection.

FAIL

YES

NO

Inspect all hoses, caps, covers, and the brake exterior for damage or kinks (check at full left and right steering lock). - PASS/FAIL

Replace

parts.

FAIL

components

as needed with

genuine Bendix®

components as needed

with *genuine* Bendix® parts.

Replace

Air Disc Brake OK.

PASS for damage or kinks (check at full left and right steering lock).

Inspect all hoses,

caps, covers, and

the brake exterior

- PASS/FAIL

components as needed with genuine Bendix® parts.

Replace

Perform

PASS

FAIL

Procedure

Troubleshooting

of SD-23-7541).

Flowchart (Sec. 3.0

Perform Guide Pin Replace Bearing Inspection components (Sec. 4.5 of as needed with SD-23-7541). genuine Bendix® parts. - PASS/FAIL

Can both inboard and outboard pads be removed from the caliper by hand? - YES/NO

Bendix Technical

Reference

instructions in

Bulletin (TCH-023-007), then proceed to Guide Pin Bearing Inspection.

Proceed to pad PASS fitment inspection.

Re-install a new or reworked actuator, apply and release the brakes, and re-inspect running clearance per (Sec. 4.1 of SD-23-7541).

- PASS/FAIL

Perform Troubleshooting Procedure Flowchart (Sec. 3.0 of SD-23-7541).

actuator internals for PASS corrosion. Confirm the caliper lever applies and fully releases smoothly by

FAIL (outside

0.6-1.2 mm tolerance)

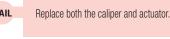
Remove the actuator to

inspect the caliper and

manually cycling the lever with a screwdriver. - PASS/FAIL





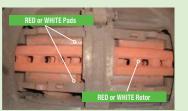


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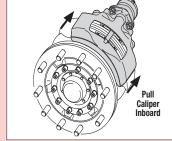


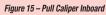


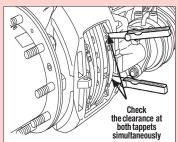




Remove the wheel and push the caliper assembly inboard on its guide pins. Note: To fully release the spring brakes, ensure that the air system pressure is at least 90 psi. Using a suitable tool (for example a short pry bar), press the inboard pad away from the tappets. Check that there is no dirt, etc. in the gap, and clean if necessary. Then use two long-blade feeler gauges to measure - over the whole tappet surface – the gap between them and the inboard pad backplate. (See Figure 16.) The gap should be between 0.024 in. (0.6 mm) and 0.047 in. (1.2 mm). PASS if the gap is within the given range. - PASS/FAIL













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(such as SD- 23-5471) can be found at the online Document Library at Bendix.com.

Do BOTH pads AND rotors have bright red dust and/or white residue? **Since it is possible that the caliper may have been replaced after a previous high level of heat event on this rotor, the intent is to confirm that both the caliper and the pads have experienced a high level of heat event.** (This assumes that the pads would have been replaced at the same time the caliper was replaced due to a prior high level of heat event). - YES/NO



Remove the wheel and with the spring brakes

released or caged, push the caliper assembly

inboard on its guide pins. Note: To fully release

the spring brakes, ensure that the air system

pressure is at least 90 psi. Using a suitable tool

(for example a short pry bar), press the inboard

pad away from the tappets. Check that there is

no dirt, etc. in the gap, and clean if necessary.

measure – over the whole tappet surface – the

backplate. (See Figure 16.) The gap should be

between 0.024 in. (0.6 mm) and 0.047 in.

(1.2 mm). PASS if the gap is within the given range. – **PASS/FAIL**

Then use two long-blade feeler gauges to

gap between them and the inboard pad



Do any other brake rotors

- YES/NO

OR pads on the vehicle have bright red dust OR white residue?

PASS

YES

PASS

Inspect for leaks in the parking system and broken spring brake chambers.

balance, overloaded vehicles, or extreme

use – are likely the source.

- PASS/FAIL

When both ends of an axle, or multiple brakes on a

single vehicle are affected, a thorough brake system

diagnosis is needed, as other factors – such as brake

Repair leaks in the parking system or replace the suspect spring brake actuator per Bendix Service Data Sheet

- PASS/FAIL

Replace components as needed with *aenuine* Bendix® parts.

Proceed to actuator/ caliper interface and

corrosion inspections.

PASS

FAIL

Inspect all hoses, caps, covers, and

the brake exterior for damage or kinks

(check at full left and right steering lock).

Inspect all hoses, caps, covers, and the brake exterior for damage or kinks.

- PASS/FAIL

Replace components FAIL

as needed with

Air Disc Brake OK.

genuine Bendix®



PASS (within 0.6-1.2 mm tolerance)

> Can both inboard and outboard pads be removed from the caliper by hand?

- YES/NO

Perform Guide Pin Bearing Inspection (Sec. 4.5 of SD-23-7541).

Reference Instructions in Bendix Technical Bulletin (TCH-023-007), then proceed to Guide Pin Bearing Inspection.

Confirm that the return spring

is not broken and the actuator

pushrod does not touch the

Actuator pushrod should not

extend more then 12 mm

from the rubber seal.

- PASS/FAIL

rubber seal.

Can both inboard and outboard pads be

Air Disc Brake OK.

Replace components as

needed with *genuine*

Bendix® parts.

PASS

removed from the caliper YES/NO

Technical Bulletin (TCH-023-007), then proceed to Guide Pin Bearing

- PASS/FAIL

Perform Guide Pin Bearing Inspection

Reference instructions in *Bendix*

(Sec. 4.5 of SD-23-7541).

Inspection.

Perform

Procedure

Replace

parts.

components

as needed with

genuine Bendix®

PASS

FAIL

PASS

Troubleshooting

of SD-23-7541).

Flowchart (Sec. 3.0

Proceed to pad fitment inspection.

Perform

Re-install a new or reworked actuator, apply and release the brakes and re-inspect running clearance per (Sec. 4.1 of SD-23-7541).

Troubleshooting Procedure Flowchart (Sec. 3.0 of SD-23-7541).

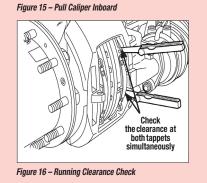
- PASS/FAIL

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and actuator internals for corrosion. Confirm the caliper lever applies and fully releases smoothly by manually cycling the lever with a screwdriver.

FAIL (outside 0.6-1.2 mm tolerance)

- PASS/FAIL

