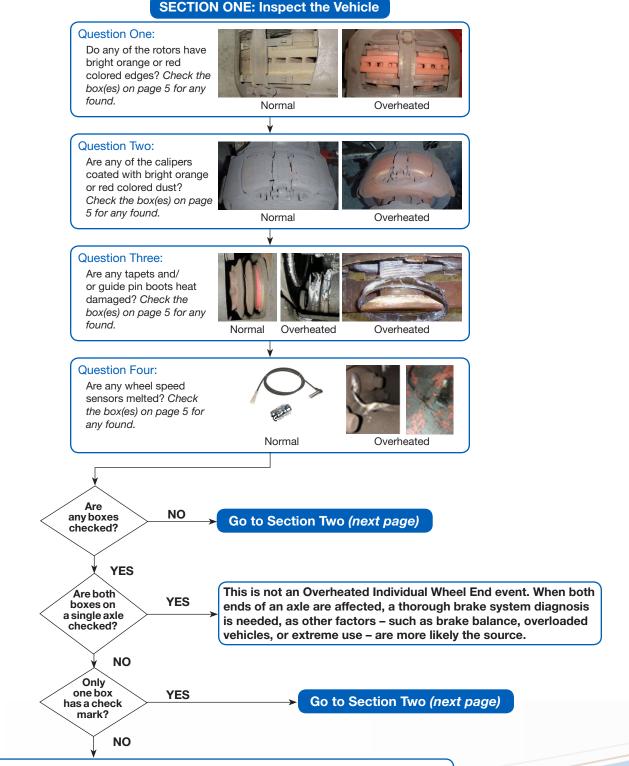
All foundation brakes are designed to convert kinetic energy (energy of motion) into heat and work to stop the vehicle. Air disc brakes work the same way and in everyday operation – compared to drum brakes – will produce higher braking temperatures and cool off faster. Also, air disc brakes will often have differences in temperatures at the wheel ends on the same axle. The actual temperatures reached will depend on the vehicle configuration, vocation, and brake usage. This document is intended to help technicians identify instances where an individual wheel end has evidence of overheated individual wheel ends, and check for potential causes. Be sure to read and follow the Safety Guidelines on page 4 of this document before performing any inspection procedures.

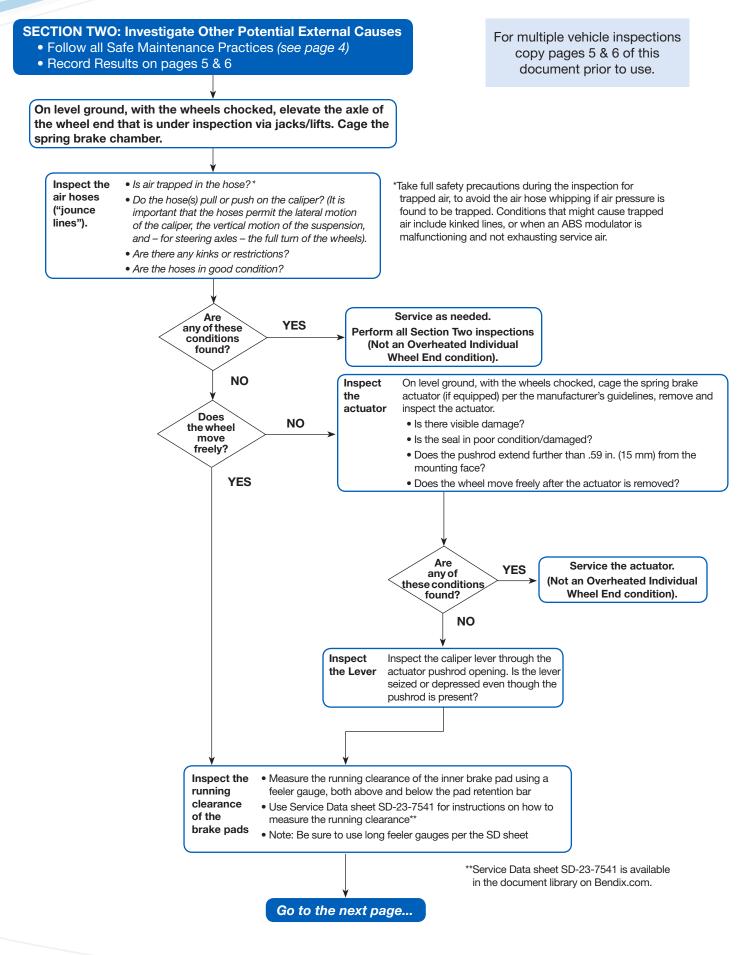
Bend

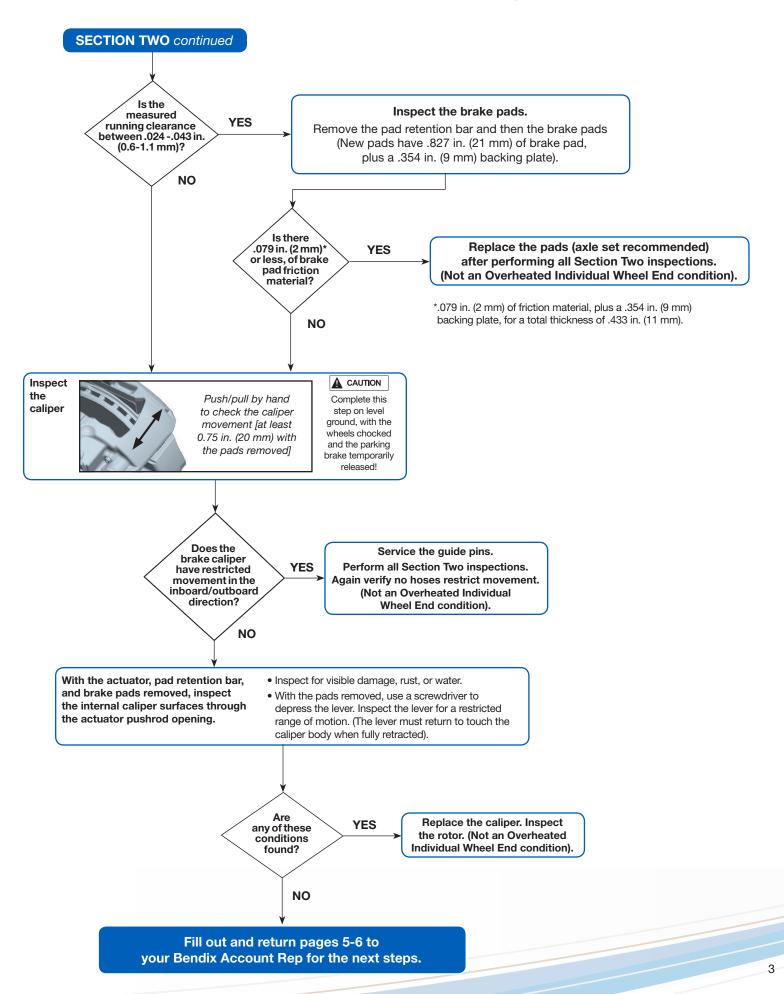
Start Here



1

In cases where more than one wheel end is affected – but on different axles – complete the Overheated Individual Wheel End Checklist for each brake being examined.





GENERAL SAFETY GUIDELINES WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:

When working on or around a vehicle, the following guidelines should be observed AT ALL TIMES:

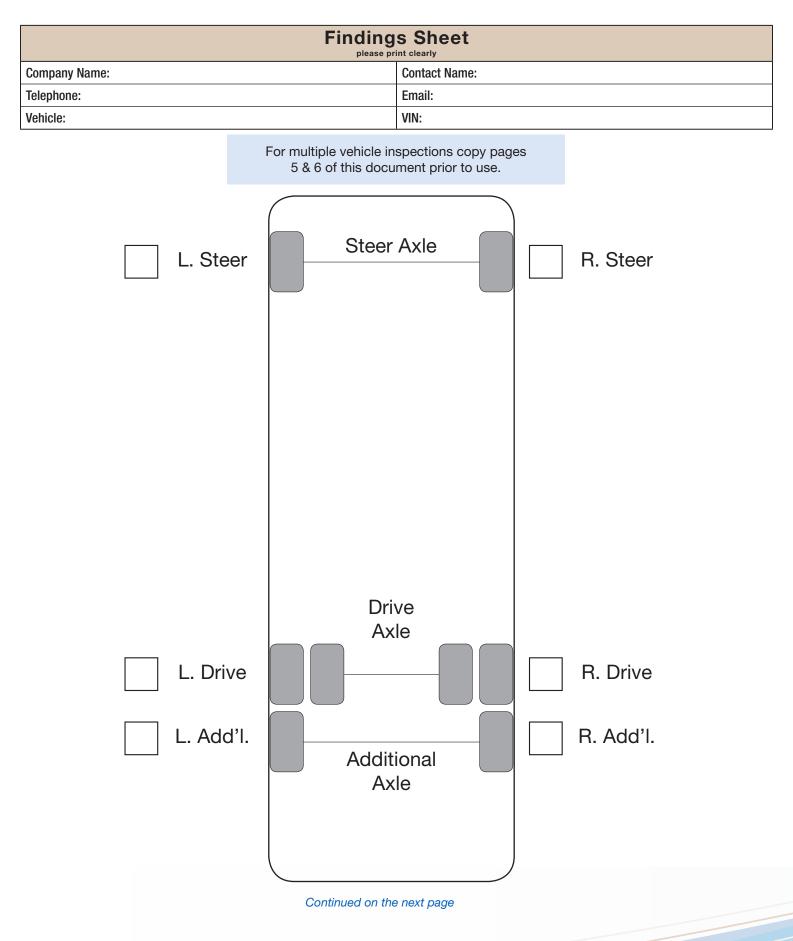
- ▲ Park the vehicle on a level surface, apply the parking brakes and always block the wheels. Always wear personal protection equipment.
- ▲ Stop the engine and remove the ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, EXTREME CAUTION should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically-charged components.
- ▲ Do not attempt to install, remove, disassemble or assemble a component until you have read, and thoroughly understand, the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
- ▲ If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with a Bendix[®] AD-IS[®] air dryer system, a Bendix[®] DRM[™] dryer reservoir module, or a Bendix[®] AD-9si[®] air dryer, be sure to drain the purge reservoir.
- ▲ Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
- ▲ Never exceed manufacturer's recommended pressures.
- ▲ Never connect or disconnect a hose or line containing pressure; it may whip and/or cause hazardous airborne dust and dirt particles. Wear eye protection. Slowly open connections with care, and verify that no pressure is present. Never remove a component or plug unless you are certain all system pressure has been depleted.
- ▲ Use only genuine Bendix[®] brand replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, wiring, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
- ▲ Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
- ▲ Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
- ▲ For vehicles with Automatic Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.
- ▲ The power MUST be temporarily disconnected from the radar sensor whenever any tests USING A DYNAMOMETER are conducted on a vehicle equipped with a Bendix[®] Wingman[®] system.
- ▲ You should consult the vehicle manufacturer's operating and service manuals, and any related literature, in conjunction with the Guidelines above.

A WARNING: Not all wheels and valve stems are compatible with Bendix Air Disc Brakes. Use only wheels and valve stems approved by the vehicle manufacturer to avoid the risk of valve stem shear and other compatibility issues.

WARNING: AVOID CREATING DUST. POSSIBLE CANCER AND LUNG DISEASE HAZARD.

While Bendix Spicer Foundation Brake LLC does not offer asbestos brake linings, the long-term affects of some non-asbestos fibers have not been determined. Current OSHA Regulations cover exposure levels to some components of non-asbestos linings, but not all. The following precautions must be used when handling these materials.

- Avoid creating dust. Compressed air or dry brushing must never be used for cleaning brake assemblies or the work area.
- Bendix recommends that workers doing brake work must take steps to minimize exposure to airborne brake lining particles. Proper procedures to reduce exposure include working in a well-ventilated area, segregation of areas where brake work is done, use of local filtered ventilation systems or use of enclosed cells with filtered vacuums. Respirators approved by the Mine Safety and Health Administration (MSHA) or National Institute for Occupational Safety and Health (NIOSH) should be worn at all times during brake servicing.
- Workers must wash before eating, drinking or smoking; shower after working, and should not wear work clothes home. Work clothes should be vacuumed and laundered separately without shaking.
- OSHA Regulations regarding testing, disposal of waste and methods of reducing exposure for asbestos are set forth in 29 Code of Federal Regulations §1910.001. These Regulations provide valuable information which can be utilized to reduce exposure to airborne particles.
- Material Safety Data Sheets on this product, as required by OSHA, are available from Bendix. Call 1-800-247-2725 and speak to the Tech Team or e-mail techteam@bendix.com.



Fill out and return pages 5-6 to your Bendix Account Rep for the next steps.

Overheated Individual Wheel End Checklist					
Company Name: Contact Name:					
Telephone:	Email:				
Questions				Yes	No
Does the wheel move freely after the vehicle is elevated off of the ground, the spring brakes are caged, and all service pressure is released? (Check before the actuator is removed if there is one on the wheel end).					
Do any hoses pull or push on the caliper? (It is important that the hoses permit the lateral motion of the caliper, the vertical motion of the suspension, and – for steering axles – the full turn of the wheels).					
Are there any kinks or restrictions on the hose(s)?					
Are the hoses in good condition?					
Is there visible damage on the actuator?					
Is the actuator seal in poor condition/damaged?					
Does the actuator pushrod extend further than .59 in. (15 mm) from the mounting face?					
Does the wheel move freely after the actuator is removed?					
Is the caliper lever stuck in the applied position without an actuator present?					
Is the caliper movement at least 0.75 in. (20 mm) with the pads removed?					
Is there any visible damage, rust, or water on the internal caliper surfaces through the actuator pushrod opening?					
Is the wheel speed sensor intact/functional?					
What is the running clearance of the brake? Refer to Bendix SD sheet SD-23-7541: Adjuster Side Tappet: in. ormm Opposite Tappet: in. ormm					
What is the thickness of the brake pads? Refer to Bendix SD sheet SD-23-7541:					
Suspect Wheel End: Opposite Side Wheel End:					
Inboard Pad: in. or mm Inboard Pad: in. or mm Outboard Pad: in. or mm Outboard Pad: in. or mm					
Outboard Pad:in. <i>or</i>	mm Outboa	ru Pad:In.	ormm		
	T				
Vehicle Make: MCI		500	Vehicle Year:		
Vehicle VIN:	Vehicle In-Service Date: Vehicle Mile		Vehicle Mileage:		
Mileage Between Brake Pads: (If known)	Vehicle Engine Platform: Exhaust Brake/Retail		rder Present?		
Mileage Between Rotors: (If known)	Mileage/Days since	last service:	Application Type: (Commuter, Intercity,	Tour, etc.)	
Route Type:	Off Road usage?		Location:		

Additional Information:

(Local, Regional, National)

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