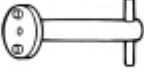



## Component Bleeding


### Special Tool(s)


|   |   |
|---|---|
|  <p>ST1112-A</p> | Adapter for Adjuster, Rear Brake Caliper Piston<br>206-026 (T87P-2588-A)  |
|  <p>ST2834-A</p> | Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool |


### Material

| Item   | Specification               |
|--|-----------------------------|
| High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada) | WSS-M6C62-A or WSS-M6C65-A1 |

### Master Cylinder

 **WARNING:** Do not use any fluid other than clean brake fluid meeting manufacturer's specification. Additionally, do not use brake fluid that has been previously drained. Following these instructions will help prevent system contamination, brake component damage and the risk of serious personal injury.

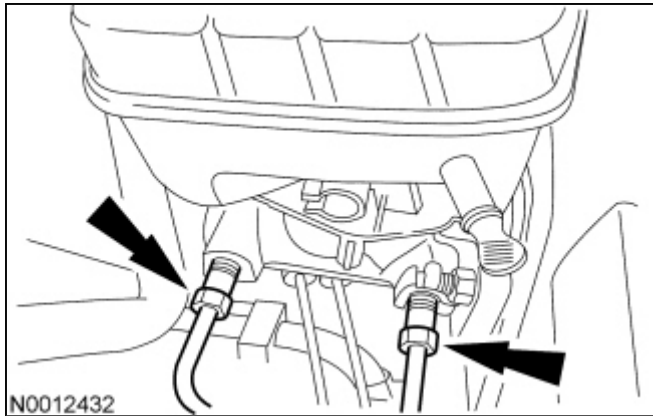
 **WARNING:** Carefully read cautionary information on product label. For EMERGENCY MEDICAL INFORMATION seek medical advice. In the USA or Canada on Ford/Motorcraft products call: 1-800-959-3673. For additional information, consult the product Material Safety Data Sheet (MSDS) if available. Failure to follow these instructions may result in serious personal injury.

 **WARNING:** Do not allow the brake master cylinder to run dry during the bleeding operation. Master cylinder may be damaged if operated without fluid, resulting in degraded braking performance. Failure to follow this instruction may result in serious personal injury.

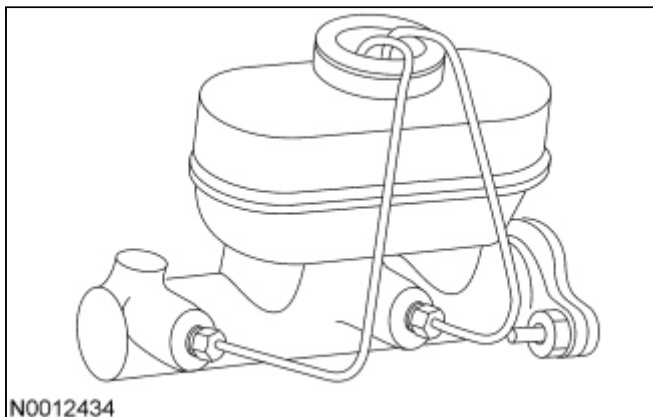
**NOTICE:** Do not spill brake fluid on painted or plastic surfaces or damage to the surface may occur. If brake fluid is spilled onto a painted or plastic surface, immediately wash the surface with water.

**NOTE:** When a new brake master cylinder has been installed or the system has been emptied, or partially emptied, it should be primed to prevent air from entering the system.

1. Disconnect the brake tubes.



2. Install short brake tubes onto the primary and secondary ports with the ends submerged in the brake master cylinder reservoir.



3. Fill the brake master cylinder reservoir with clean, specified brake fluid.
4. Have an assistant pump the brake pedal until clear fluid flows from the brake tubes, without air bubbles.
5. Remove the short brake tubes and install the master cylinder brake tube fittings.
  - Tighten to specifications. Refer to Specifications in this section.
6. Follow the pressure bleeding or manual bleeding procedure steps to bleed the system.

### Rear Brake Caliper

**WARNING:** Do not use any fluid other than clean brake fluid meeting manufacturer's specification. Additionally, do not use brake fluid that has been previously drained. Following these instructions will help prevent system contamination, brake component damage and the risk of serious personal injury.

**WARNING:** Carefully read cautionary information on product label. For EMERGENCY MEDICAL INFORMATION seek medical advice. In the USA or Canada on Ford/Motorcraft products call: 1-800-959-3673. For additional information, consult the product Material Safety Data Sheet (MSDS) if available. Failure to follow these instructions may result in serious personal injury.

**WARNING:** Do not allow the brake master cylinder to run dry during the bleeding operation. Master cylinder may be damaged if operated without fluid, resulting in degraded braking performance. Failure to follow this instruction may result in serious personal injury.

**NOTICE:** Do not spill brake fluid on painted or plastic surfaces or damage to the surface may occur. If brake fluid is spilled onto a painted or plastic surface, immediately wash the surface with water.

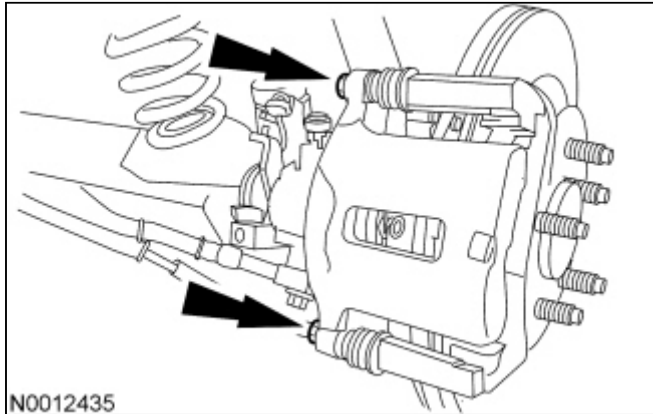
**NOTE:** When any part of the hydraulic system is disconnected for repair or installation of new components, air can get into the system and cause spongy brake pedal action. This requires bleeding of the hydraulic system after it is correctly connected. The hydraulic system can be bled manually or with pressure bleeding equipment.

**NOTE:** Due to the complexity of the fluid path within the rear integral parking brake calipers, it may be necessary to follow this procedure when new calipers are installed.

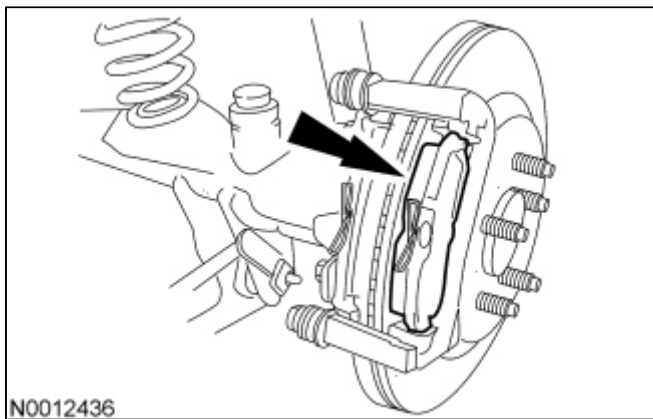
1. **NOTE:** This procedure is necessary only when installing a new rear brake caliper. To bleed the brake system, refer to [Brake System Bleeding](#) in this section.

Remove the wheel and tire. For additional information, refer to [Section 204-04](#).

2. Remove the 2 brake caliper bolts and position the brake caliper aside.



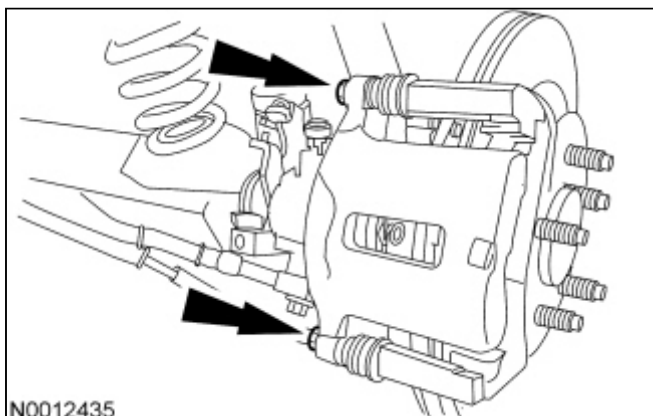
3. Remove the outer brake pad.



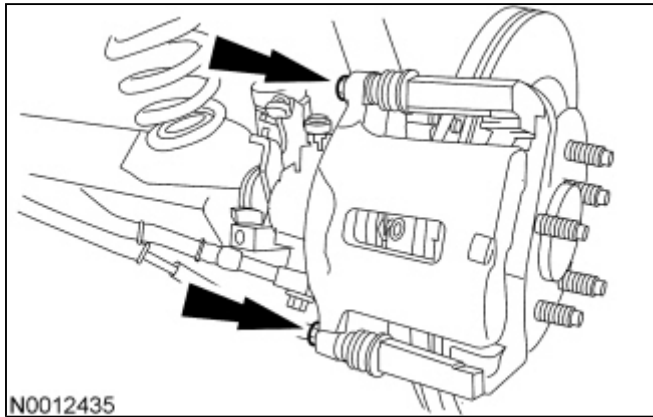
4. **NOTE:** Place a shop towel between the caliper and the brake disc.

Install the brake caliper using the 2 brake caliper bolts.

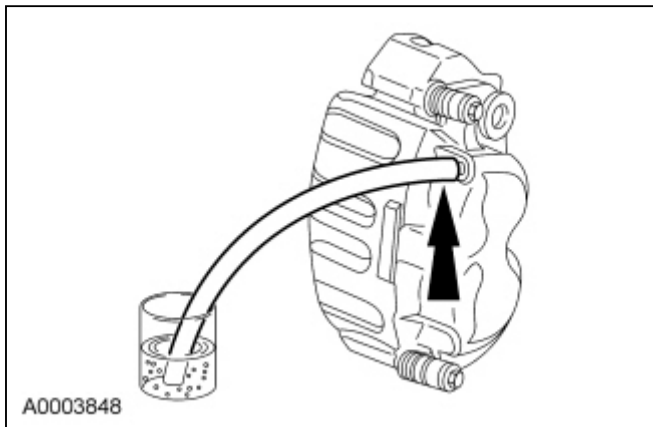
- Tighten to specifications. Refer to Specifications in this section.



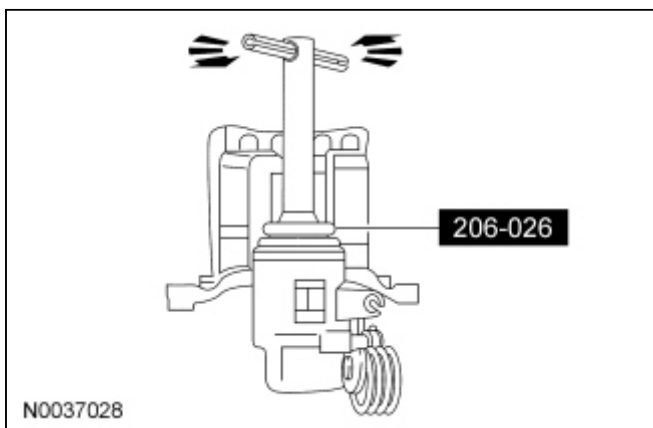
5. Slowly apply the brake pedal to extend the brake caliper piston outward.
6. Remove the 2 brake caliper bolts and position the brake caliper aside.



7. Remove the brake caliper bleeder screw cap and place a box-end wrench on the bleeder screw. Attach a rubber drain hose to the bleeder screw and submerge the free end of the hose in a container partially filled with clean, specified brake fluid.

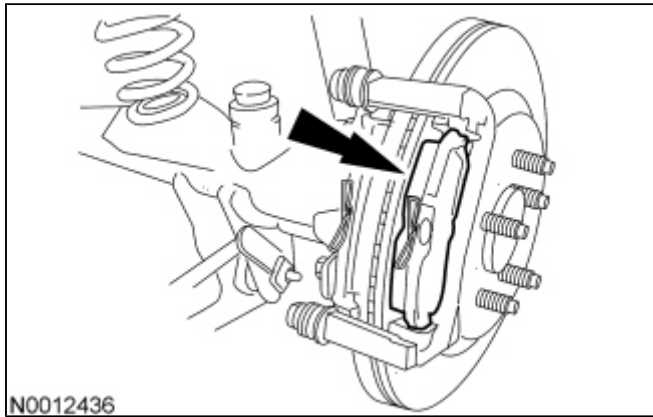


8. Loosen the brake caliper bleeder screw.
9. Using the Rear Brake Caliper Piston Adjuster Adapter, fully retract the brake caliper piston and tighten the bleeder screw to specifications. Refer to Specifications in this section.

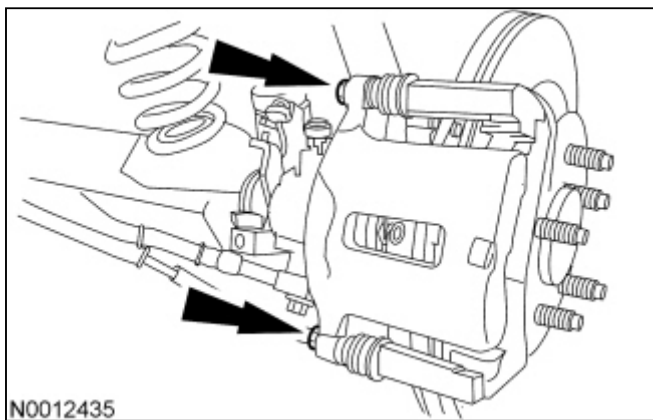


10. Repeat Steps 4 through 9 until clear, bubble free fluid comes out.
  - Refill the brake master cylinder reservoir as necessary.
  - Install the bleeder screw cap.
11. Remove the 2 brake caliper bolts and the shop towel.

12. Install the outer brake pad.



13. Position the brake caliper and install the 2 brake caliper bolts.
- Tighten to specifications. Refer to Specifications in this section.



14. Install the wheel and tire. For additional information, refer to [Section 204-04](#).

### ABS Hydraulic Control Unit (HCU) Bleeding



**WARNING:** Do not use any fluid other than clean brake fluid meeting manufacturer's specification. Additionally, do not use brake fluid that has been previously drained. Following these instructions will help prevent system contamination, brake component damage and the risk of serious personal injury.



**WARNING:** Carefully read cautionary information on product label. For EMERGENCY MEDICAL INFORMATION seek medical advice. In the USA or Canada on Ford/Motorcraft products call: 1-800-959-3673. For additional information, consult the product Material Safety Data Sheet (MSDS) if available. Failure to follow these instructions may result in serious personal injury.



**WARNING:** Do not allow the brake master cylinder to run dry during the bleeding operation. Master cylinder may be damaged if operated without fluid, resulting in degraded braking performance. Failure to follow this instruction may result in serious personal injury.

**NOTICE:** Do not spill brake fluid on painted or plastic surfaces or damage to the surface may occur. If brake fluid is spilled onto a painted or plastic surface, immediately wash the surface with water.

**NOTE:** This procedure is only required when a new Hydraulic Control Unit (HCU) is installed.

**NOTE:** When any part of the hydraulic system is disconnected for repair or installation of new components, air can get into the system and cause spongy brake pedal action. This requires bleeding of the hydraulic system after it is correctly connected. The hydraulic system can be bled manually or with pressure bleeding equipment.

1. Connect the scan tool and follow the ABS [HCU](#) bleeding instructions.
  2. Use the pressure or manual bleeding procedure to bleed the system, refer to [Brake System Bleeding](#) in this section.
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