

Diagnosis and Testing

## Brake System

### Symptom Chart(s)

#### Symptom Chart: Brake System

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.  
REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

| Condition                                                                            | Possible Sources                                                                                                                                                                      | Actions                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The red brake warning indicator and the yellow ABS warning indicator are illuminated | Diagnostic Trouble Codes (DTCs) in the ABS                                                                                                                                            | CHECK for ABS diagnostic trouble codes (DTCs).<br>REFER to: Anti-Lock Brake System (ABS) and Stability Control (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing). |
| The red brake warning indicator is always/never on                                   | <ul style="list-style-type: none"> <li>• Brake fluid level switch</li> <li>• Parking brake switch</li> <li>• Wiring, terminals or connectors</li> <li>• IPC</li> <li>• BCM</li> </ul> | REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).                                                   |
| Vehicle pulls or drifts during braking                                               | <ul style="list-style-type: none"> <li>• Brake calipers and/or guide pins</li> <li>• Brake flexible hose</li> <li>• Brake pads</li> <li>• Brake discs</li> </ul>                      | INSPECT the brake system components. INSTALL new components as necessary.                                                                                                                          |
|                                                                                      | Tires                                                                                                                                                                                 | REFER to: Wheels and Tires (204-04A Wheels and Tires, Diagnosis and Testing).                                                                                                                      |
|                                                                                      | Suspension component(s) and/or wheel alignment                                                                                                                                        | REFER to: Suspension System (204-00 Suspension System - General Information, Diagnosis and Testing).                                                                                               |
| Brake pedal goes down fast or eases down slowly                                      | Brake fluid leaks and/or air in the system                                                                                                                                            | INSPECT the system for leaks. REPAIR as necessary. BLEED the system.<br>REFER to: Brake System Pressure Bleeding (206-00 Brake System - General Information, General Procedures).                  |
|                                                                                      | Brake master cylinder                                                                                                                                                                 | CARRY OUT the Brake Master Cylinder - Bypass Condition Component Test.                                                                                                                             |
|                                                                                      | ABS                                                                                                                                                                                   | CHECK for ABS diagnostic trouble codes (DTCs).<br>REFER to: Anti-Lock Brake System (ABS) and Stability Control (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing). |
|                                                                                      | Brake pedal                                                                                                                                                                           | INSPECT the brake pedal simulator spring, cam and interface-to-booster.<br>INSTALL a new brake pedal and bracket as necessary.                                                                     |