

General Diagnostic Table

BRAKE

18. General Diagnostic Table

A: INSPECTION

| | Trouble and possible cause | Corrective action |
|---|---|---|
| 1. Insufficient braking performance | (1) Fluid leakage from the hydraulic mechanism | Correct or replace. (cup, piston seal, piston boot, master cylinder piston kit, pipe or hose) |
| | (2) Entry of air into the hydraulic mechanism | Bleed air. |
| | (3) Wear, deteriorated surface material, water or fluid on lining | Replace, grind or clean. |
| | (4) Improper operation of master cylinder, disc caliper, brake booster or check valve | Correct or replace. |
| 2. Unstable or uneven braking | (1) Fluid on lining or rotor | Correct the cause of fluid leakage, and clean or replace. |
| | (2) Rotor defective | Repair or replace the rotor. |
| | (3) Improper lining contact, deteriorated surface, deteriorated or worn lining material | Repair by grinding, or replace. |
| | (4) Deformed back plate | Correct or replace. |
| | (5) Overinflation of tires | Adjust air pressure. |
| | (6) Defective wheel alignment | Adjust alignment. |
| | (7) Loose back plate or support installation bolt | Tighten to the specified torque. |
| | (8) Faulty wheel bearing | Replace. |
| | (9) Defective hydraulic system | Replace the cylinder, brake pipe or hose. |
| | (10) Unstable performance of parking brake | Check, adjust or replace the rear brake and cable system. |
| 3. Excessive pedal stroke | (1) Entry of air into the hydraulic mechanism | Bleed air. |
| | (2) Excessive play in the master cylinder push rod | Adjust. |
| | (3) Fluid leakage from the hydraulic mechanism | Correct or replace. (cup, piston seal, piston boot, master cylinder piston kit, pipe or hose) |
| | (4) Improper lining contact or worn lining | Correct or replace. |
| 4. Brake dragging or improper brake return | (1) Insufficient pedal play | Adjust play. |
| | (2) Improper master cylinder return | Clean or replace the cylinder. |
| | (3) Clogged hydraulic system | Replace. |
| | (4) Improper return or adjustment of parking brake | Repair or adjust. |
| | (5) Weakened spring tension or breakage of shoe return spring | Replace the spring. |
| | (6) Improper disc caliper operation | Correct or replace. |
| | (7) Faulty wheel bearing | Replace. |
| 5. Brake noise (1) (creaking sound) | (1) Hardened or deteriorated brake pad | Replace the pad. |
| | (2) Worn brake pad | Replace the pad. |
| | (3) Loose back plate or support installation bolt | Tighten to the specified torque. |
| | (4) Loose wheel bearing | Tighten to the specified torque. |
| | (5) Dirty rotor | Clean the rotor, or clean and replace brake assembly. |
| 6. Brake noise (2) (hissing sound) | (1) Worn brake pad | Replace the pad. |
| | (2) Improperly installed pad | Correct or replace the pad. |
| | (3) Loose or bent rotor | Retighten or replace. |
| 7. Brake noise (3) (click sound) | Excessively worn pad or support | Replace the pad or the support. |

BRAKE VACUUM CONTROL(BVC) (DIAGNOSTICS)

BVC(diag)

| | Page |
|---|------|
| 1. Basic Diagnostic Procedure | 2 |
| 2. Check List for Interview | 3 |
| 3. General Description | 5 |
| 4. Electrical Component Location | 6 |
| 5. Engine Control Module (ECM) I/O Signal | 10 |
| 6. Subaru Select Monitor | 11 |
| 7. Read Diagnostic Trouble Code (DTC) | 13 |
| 8. Inspection Mode | 14 |
| 9. Clear Memory Mode | 15 |
| 10. List of Diagnostic Trouble Code (DTC) | 16 |
| 11. Diagnostic Procedure with Diagnostic Trouble Code (DTC) | 17 |
| 12. General Diagnostic Table | 46 |