

Technical Bulletin B27

Affected Vehicles: All clutch kits with hydraulic release systems

Problem: Possible no release condition

Solution: Hydraulic system bleed procedures

The hydraulic release system should be bled whenever a new clutch is installed, or whenever any part of the system has been removed, or whenever the fluid level in the master cylinder reservoir has been allowed to fall so low that air may have been drawn into the system. Always refer to the specific manufacturer's service procedures for the specific vehicle however, here is a generic bleed system procedure.

Note: In no release situations, air in the clutch hydraulic system is most common cause of problems.

- Fill the master cylinder reservoir with new hydraulic fluid specified by the vehicle manufacturer. Do not use fluid from a previously opened container, which may already contain moisture or contaminants. Use care, as most fluids will cause damage to painted surfaces on contact.
- Raise the vehicle and support it securely on jack-stands or equivalent supports.
- If necessary, remove or loosen the slave cylinder to insure the bleed port is at the uppermost point of the slave cylinder. Remove the dust cap (if equipped) and push a length of plastic hose over the fitting. Place the other end of the hose in a clear container with about two inches of hydraulic fluid. The end of the hose must be immersed in the fluid in the bottom of the container.
- Have an assistant depress the clutch pedal and hold it. Open the bleeder valve on the slave cylinder, allowing air and fluid to flow through the hose. Close the bleeder valve when no more fluid flows through it, and have the assistant release the pedal.
- Repeat the process until all air is evacuated from the system. Keep a close watch on the fluid level in the master cylinder reservoir. Do not let the fluid level drop below the low-level indicator, as it is possible to re-introduce air back into the system.

These are general guidelines to hydraulic system bleed procedures. Each vehicle manufacturer has specific details and instructions pertinent to the individual vehicle. It is strongly advised to obtain and follow these detailed instructions whenever bleed system problems are encountered.