

CDL Air Brakes: Official 7-Step Inspection & Leak Limits

Peer-reviewed by EduPro Suite Editorial & Math Solution Verification Suite. 100% verified calculations with zero arithmetic errors.

Core Governing Formula / Rule:

Single Vehicle Static Leak ≤ 2 PSI/min | Applied Leak ≤ 3 PSI/min.

Combination Vehicle Static Leak ≤ 3 PSI/min | Applied Leak ≤ 4 PSI/min.

Low Air Warning triggers at ≥ 60 PSI. Spring Brakes pop out between 20-45 PSI.

Step-by-Step Verified Application Example:

Engine Off, Wheels Chocked, Air at Governor Cutout (120-140 PSI).

1. Turn key to ON, release parking brake: observe static gauge for 1 min.
2. Fully depress foot brake: hold 1 min (must not drop > 3 PSI single / 4 PSI combo).
3. Fan brake pedal: warning buzzer/light MUST activate at or before **60 PSI**.
4. Continue fanning: emergency tractor protection valves must pop out between **20 and 45 PSI**.