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# ***DRIVER'S GUIDE*** **LOADLEASH ENGINE BRAKE OPERATION**

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**P-67** **LOADLEASH**



***TOW WITH CONFIDENCE***  
***BRAKE WITH AUTHORITY***

**HELPING YOU TO ACHIEVE OPTIMUM  
RESULTS FROM YOUR PACBRAKE  
LOADLEASH ENGINE BRAKE**



**||| PACBRAKE®**



# DRIVER'S GUIDE

## P.67 LOADLEASH

### FUNCTIONALITY

Pacbrake's LoadLeash for Cummins 6.7L engines is a "weeper or bleeder" design engine brake, working in tandem with the vehicle's VGT exhaust braking feature.

It functions by the exhaust valves being held slightly off their seats during the complete engine cycle with the VGT providing backpressure and increased boost pressure.

2 braking strokes are achieved, plus, the expansion stroke is eliminated.

- 1 Standard braking stroke occurs during the normal exhaust stroke with the piston trying to push cylinder pressure past the open exhaust valve against the "closed" VGT.
- 2 The second braking stroke occurs during the compression stroke with the piston trying to push cylinder pressure past the open exhaust valve against the "closed" VGT. Normal expansion stroke after TDC is eliminated by the open exhaust valve.

Results are 50% more retarding horsepower than the VGT exhaust braking feature alone, as measured at the flywheel.

LoadLeash + VGT = 300RHP | VGT Only = 150RHP

### OPERATION

For optimal braking, the following switches must be in the 'ON' position:

- Tow/Haul
- Exhaust Brake
- LoadLeash LED Switch

**RED LIGHT** – LoadLeash is 'ON', and awaiting road speed/zero throttle

**GREEN LIGHT** – LoadLeash is activated/'ON'

**No Illumination** – Brake is disabled/'OFF'

Engage/Disengage road speeds are not affected.

### DRIVING IMPRESSIONS

Pacbrake's LoadLeash, used in tandem with the VGT exhaust braking feature, will result in a 40% increase in retarding HP when measured at the rear wheels (assuming 60 HP of drivetrain friction).

LoadLeash + VGT = 360RHP | VGT Only = 210RHP

"Seat of the pants" feel is noticeable, particularly in a heavy load situation. The LoadLeash is stronger at all RPMs and in most cases will control the vehicle/load in a chosen gear without the rapid downshifting and high engine RPM experienced with the exhaust brake use alone.

Meeting all municipal sound bylaws, LoadLeash engine brake use is legal wherever you roll.

**Questions or Concerns?** Call 800.663.0096 / M-F 6:00AM-4:30PM PST

## PACBRAKE®