



# **Jake Brake®**

## **Models 760A/765**

for

# **Detroit Diesel**

## **Series 60 Engines**

### **Features and Benefits**

- Available for All 11.1- and 12.7-liter Engines
- Superior Grade Cast Iron for Increased Strength and Reliability
- Three Braking Levels for Operating Flexibility
- Single Housing Design for Simplicity and Interchangeability
- Fully Integrated with DDEC II and DDEC III
- Additional 20 Horsepower with Model 765 on 1994 12.7-liter Engine
- Highest Horsepower Brake Available for Detroit Diesel Series 60 Engines
- Fits Under the Standard Valve Cover for Simple Installation
- Two-year Unlimited Mileage Warranty
- Joint Design and Development Between Detroit Diesel and Jacobs®
- Backed by Jacobs' Worldwide Network of Distributors and Dealers

Model No.	Model Year	Liter	Application	Jake Brake Model	Slave Piston Adjustment
6067WU40	Pre '91	11.1	Truck	760A	0.026" (0.660 mm)
6067GU40	Pre '91	12.7	Truck	760A	0.020" (0.508 mm)
6067WU60	'91 - '93	11.1	Truck	760A	0.026" (0.660 mm)
6067GU60	'91 - '93	12.7	Truck	765	0.026" (0.660 mm)
6067GU28	'91 - '93	12.7	Coach	765	0.026" (0.660 mm)
6067GU91	'91 - '93	12.7	Military	765	0.026" (0.660 mm)
6067WK60	'94	11.1	Truck	760A	0.026" (0.660 mm)
6067GK60	'94	12.7	Truck	765	0.026" (0.660 mm)
6067GK28	'94	12.7	Coach	765	0.026" (0.660 mm)

# **SPECIFICATIONS**

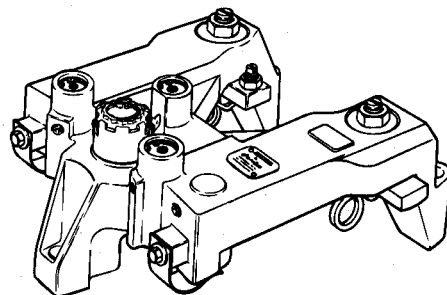
# Jake Brake® Models 760A/765

## for

# Detroit Diesel Series 60 Engines

### Technical Specifications

Height	5.5"	140 mm
Length	11.3"	287 mm
Width	9.0"	229 mm
Added Engine Weight	89 lbs	40 Kg
Housings Per Engine	3	

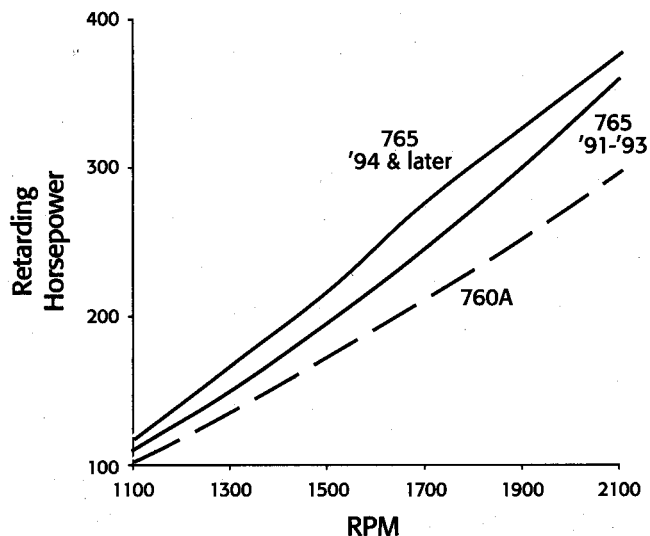


### How Jake Brake Models 760A/765 Work

Energizing the engine brake effectively converts a power-producing diesel engine into a power-absorbing air compressor. This is accomplished through motion transfer using a master/slave piston arrangement which opens cylinder exhaust valves near the top of the normal compression stroke, releasing the compressed cylinder charge to exhaust.

The blowdown of compressed air to atmospheric pressure prevents the return of energy to the engine piston on the expansion stroke, the effect being a net energy loss since the work done in compressing the cylinder charge is not returned during the expansion process.

### Retarding Performance



**Retarding Horsepower by  
Engine Brake Model**

	11.1 liter		12.7 liter	
	760A '91 - '93	760A '94+	765 '91 - '93	765 '94+
<b>RPM</b>				
1100	105	105	110	120
1300	135	135	150	170
1500	175	175	195	220
1700	215	215	240	280
1900	255	255	300	330
2100	300	300	360	380

1994 horsepower listed corrected to proposed SAE Standard J1621 for temperature only.

## Jacobs®

Jacobs® and Jake Brake® are registered trademarks of  
Jacobs Vehicle Equipment Company • 22 East Dudley Town Road • Bloomfield, CT 06002  
Jake is a Marc. Reg. in Mexico