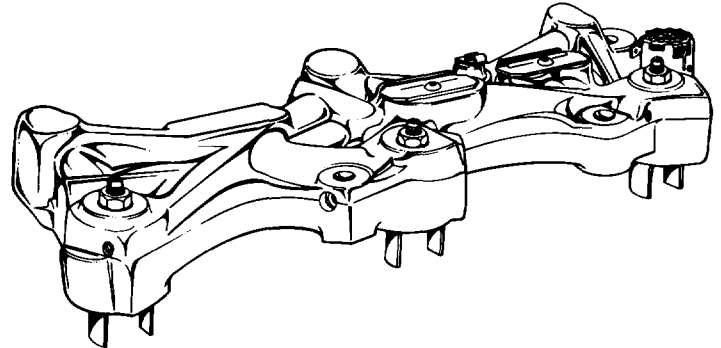


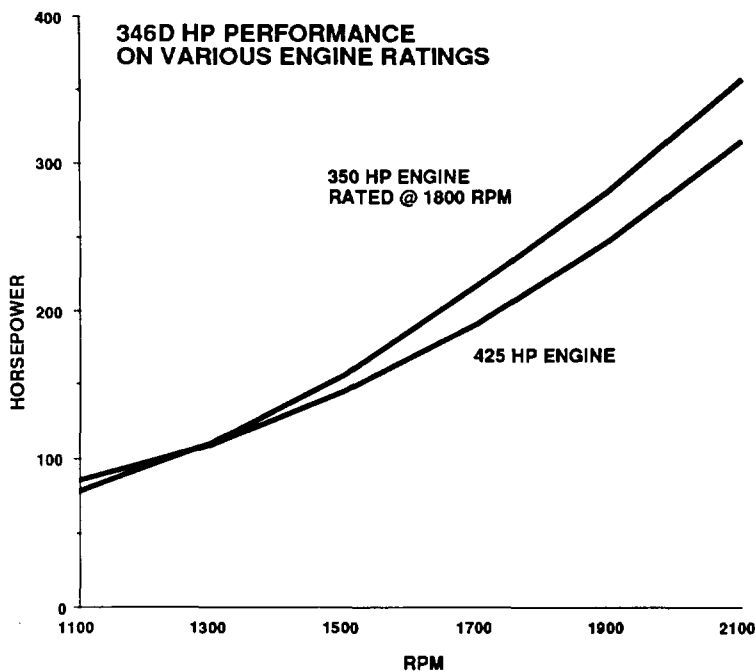
MODEL 346D
JAKE BRAKE®
FOR CATERPILLAR® 3406B ENGINES



New for 1991, the Model 346D combined with the 1991 Caterpillar 3406B Engine provides substantially more retarding horsepower than with earlier models.



- Available for all 1991 Caterpillar 3406B engine ratings
- 20 to 60 HP increase at 2100 R.P.M. over previous applications depending on engine rating
- New lash setting
- Retrofittable on all Model 3406 and 3406 B Caterpillar engines



Retarding HP varies by engine rating				
RPM	HP			
	350 (1)	350 (2)	400	425
1100	80	75	85	85
1300	110	110	115	110
1500	155	145	150	145
1700	215	190	195	190
1900	280	245	255	245
2100	355	325	335	315

(1) Engine rated @ 1800 RPM
 (2) Engine rated @ 1950 RPM

All horsepowers listed at SAE standard atmospheric conditions.

JACOBS® ENGINE BRAKES FOR CATERPILLAR® DIESEL ENGINES

Brake Model 346D

Two housings, each controlling three engine cylinders.

ENGINE BRAKE MODEL 346D

Overall Dimensions of Basic Engine Brake Housing

	In.	mm
Height	2.6	67
Length	16.4	418
Width	5.9	148
Added Engine Height (Valve Cover Spacers)¹	2.1	52
Weight of Standard Engine Brake Kit	lbs	kg
Shipping Weight	87	39
Added Vehicle Weight ²	75	34
Number of Housings per Kit	2	

¹ Added height refers to overall vertical increase.

² Because some engine brake components replace standard engine parts, added Vehicle Weight does not necessarily equal weight of pre-installed Jacobs Engine Brake.

Torque Specifications

Engine Brake housing hold-down nuts	100 lbft.	135 N•m
Engine Brake housing hold-down capscrews	60 lbft.	82 N•m
Rocker assembly stud	330 lbft.	450 N•m
Studs, cover base	10 lbft.	13.5 N•m
Slave piston adjusting screw locknut	16 lbft.	22 N•m
Spacer capscrews and nuts	13 lbft.	18 N•m
Switch locknut (for fuel pump switch)	5 lbft.	7 N•m

Engine Brake Adjustment

Engine	Caterpillar® Engine Model Year	Slave Piston Lash Adjustment		Slave Piston Adjusting Tool P/N
3406B	1991*	.067 in.	(1.70 mm)	017920
3406B	Pre-91	.080 in.	(2.03 mm)	017099
3406	Pre-91	.060 in.	(1.52 mm)	007446

* Serial number prefixes for 1991 model year
Mechanical Control - 3ZJ; PEEC Control - 2EK