



Jacobs Engine Brake® Application Guide For Detroit Diesel Engines

How to Use This Guide:

(For Series 60 engines built after December 15, 1999 go to page two for instructions)

Begin by obtaining engine and vehicle information.

- Engine Model Number
- Vehicle electrical system – 12- or 24-Volt system
- Determine if engine brake cab controls are installed in the vehicle.
- If you are servicing an existing engine brake, determine the engine brake model number.

To Specify a New Engine Brake Retrofit Kit:

1. Determine whether a two- or three-housing kit is required (Series 60 only, see note 3.)
2. Find the row corresponding to the engine model number.
3. A typical installation will require:
 - One 12- or 24-Volt base kit
 - One Engine Control Group
 - One Cab Control Group (if cab controls are not already installed)
 - One Clutch Switch Group (Mechanical and DDEC II systems only)
 - For DDEC controlled systems, reprogramming will be required to turn on the engine brake option.

The purchase of a genuine Jacobs Engine Brake retrofit kit entitles the purchaser to free programming for this purpose.

N/A indicates no kit available at the time of the print date below.
N/R indicates a part that is not required, or is already standard OEM equipment.

To Specify an Engine Brake Tune-Up Kit:

1. Turn to the Tune Up Kit application information on Page 6 of this guide.
2. Find the model number of the engine brake that is installed.
3. Select the appropriate Tune Up Kit.

To Determine Slave Piston Lash Setting:

1. Find the row corresponding to the engine model number.
2. Find the slave piston lash setting from the appropriate column.

Notes:

1. For Series 50 and Series 60 engine brake installation and service procedures, refer to Detroit Diesel engine Service Manuals for Series 50 P/N 6SE50 and Series 60 P/N 6SE483. For Jacobs Engine Brake service parts, refer to Detroit Diesel Parts Catalogs.
2. Series 60 engines with serial numbers below 06R0004455 are not engine brake ready.
3. Two-housing and three-housing kits are available for Series 60 engines. The three-housing kit is appropriate for most applications. Certain bus and coach applications use a stepped valve cover due to clearance requirements. These applications require a two-housing engine brake kit.
4. Model 760 is no longer produced. Model 760A replaces Model 760 as the current production model.
5. Series 40 engines require Jacobs Exhaust Brakes™. The Jacobs Exhaust Brake retrofit kits come complete with controls for mechanical engines.
7. Series 53A Jacobs Engine Brakes require a special adjustment procedure. Refer to the Series 53A Installation Manual, P/N 18411, for slave piston lash adjustment.
8. Series 53A Jacobs Engine Brakes are currently only available in 24-Volt configurations. Applications on vehicles with 12-Volt electrical systems require replacement of the engine brake solenoids.

Series 60 Model Year 2007

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6067HG6E	14L, ON-HIGHWAY	933	12 volt	23535545	153J	Refer to Detroit Diesel Service Manual	797B	0.580 mm (.020 in)
6067HG2E	14L, BUS/COACH	933	12 volt	23535545	153J		797B	0.580 mm (.020 in)
6067HG4E	14L, FIRETRUCK	933	12 volt	23535545	153J		797B	0.580 mm (.020 in)
6067HG5E	14L, CRANE	933	12 volt	23535545	153J		797B	0.580 mm (.020 in)
6067HG8E	14L, TRANSIT COACH	933	12 volt	23535545	153J		797B	0.580 mm (.020 in)

Brake Model	Description	Base Kit	Engine Control	Cab Control	Note 1:
797B	Engine Brake Kit 12VDC	32883	See Note 1	N/A	23537335 Harness ASM Fuel Inj 23536833 Bridge Jake Harness Support (3)
					* Both items must be purchased prior to installation

Series 60 Model Year After 11/17/2003 For All Off Highway and Non-US Applications Replacing models 790A, B, C, D and 795

Jacobs Engine Brake® Application Guide For Detroit Diesel Engines

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6067BK62	12.7L ADR 80, Premium Austr	0888	12 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
		0887	24 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
6063HK32	14L, MSHA Non-Road C&I	0890	12 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0891	24 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
6063HK33	14L, Industrial Non-Road	0892	12 volt	23529008	100J	81.0	797A	0.580 mm (.020 in)
		0890	12 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0893	12 volt	23524912	92J	81.0	797A	0.580 mm (.020 in)
		0895	24 volt	23529008	100J	81.0	797A	0.580 mm (.020 in)
		0891	24 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0894	24 volt	23524912	92J	81.0	797A	0.580 mm (.020 in)
6063HK45	14L, Crash Fire Truck	0893	12 volt	23524912	92J	81.0	797A	0.580 mm (.020 in)
		0892	12 volt	23529008	100J	81.0	797A	0.580 mm (.020 in)
6067HK62	14L, ADR 80 Austr Truck	0888	12 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
		0887	24 volt					
6063HK91	14L, Military Truck	0893	12 volt	23524912	92J	81.0	797A	0.580 mm (.020 in)
6063HV33	14L, Const & Industrial	0926	12 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
		0920	24 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
6063HV39	14L Pumping&Petroleum	0926	12 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
		0920	24 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
6063HV45	14L Crash Truck	0926	12 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
		0920	24 volt	23534735	122J	82.1	797A	0.580 mm (.020 in)
6063MK33	12.7L, 01 M/Y Non-Road Indst	0896	12 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0897	24 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0890	12 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
		0891	24 volt	23528606	107J	82.1	797A	0.580 mm (.020 in)
6067MK62	12.7L, ADR 80, Std Austr trk	0888	12 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
		0887	24 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
6067MK68	12.7L, Exp Only S60 Coach	0888	12 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
		0887	24 volt	23528309	101J	82.1	797A	0.580 mm (.020 in)
6067MK91	12.7L, Military Truck	888	12V	23528309	101J	82.1	797A	0.580mm (0.20 in)
		887	24V	23528309	101J	82.1	797A	0.580mm (0.20 in)
6067PK62	12.7L, Exp. Truck 470-500 HP	0898	12 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)
		0899	12 volt	23524908	47J	80.3	797A	0.580 mm (.020 in)
6067TK6K	Daewoo	0900	24 volt	23524918	83J	80.3	797A	0.580 mm (.020 in)
6063TK32	12.7L,Non-Rd Const&Mining	0901	12 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)
		0902	24 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)

Series 60 Model Year After 11/17/2003 For All Off Highway and Non-US Applications Replacing models 790A, B, C, D and 795

Jacobs Engine Brake® Application Guide For Detroit Diesel Engines

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6063TK33	12.7L, Industrial Non-Road	0901	12 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)
		0903	12 volt	23524908	47J	80.3	797A	0.580 mm (.020 in)
		0902	24 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)
		0904	24 volt	23524908	47J	80.3	797A	0.580 mm (.020 in)
6067TK62	12.7L, Exp Truck 430-470 HP	0898	12 volt	23524906	32J	78.8	797A	0.580 mm (.020 in)
		0899	12 volt	23524908	47J	80.3	797A	0.580 mm (.020 in)

Brake Model	Description	Base Kit	Engine Control	Cab Control
797A	Engine Brake Kit 12VDC	32576	See Note 1	20220
797A	Engine Brake Kit 24VDC	32578	See Note 1	20220

Note 1:
23534244 Off Highway Harness

Series 60 Model Year 2000 to 2006

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6067BK28	12.7L, Prem, Coach	0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)
		0745	12 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0751	24 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0744	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0738	Brake ready	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0743	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)
6067BK45	12.7L, Prem, Fire truck	0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)
		0745	12 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0751	24 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0744	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0738	Brake ready	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0743	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)
6067BK57	12.7L, Prem, Crane	0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)
		0745	12 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0751	24 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0744	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0738	Brake ready	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0743	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)
6067BK60	12.7L Prem, On-Highway	0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)
		0745	12 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0751	24 volt	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0744	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0738	Brake ready	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0743	Non-jake	23524912 23524292	92J	81.0	790	0.660 mm (.026 in)
		0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)
6063EK32	11.1L, Underground Mining	0749	24 volt	23524898 23513562	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524900 23518718	32J	78.8	790B	0.660 mm (.026 in)
6067GK28	12.7L, Coach	0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)

Series 60 Model Year 2000 and Higher

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6063GK32	12.7L, Underground Mining	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6067GK57	12.7L, Crane	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6063GK60	12.7L, Industrial	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6067GK91	12.7L, Military	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6063HK33	14L, U.S. Non-Road	0746	12 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
		0755	24 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
6063HK45	14L, U.S. Fire truck	0746	12 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
		0755	24 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
6067HK1E	14L, Transit, Coach	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)
		871	Non-jake					
6067HK2E	14L, Parlor, Coach	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		870	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)
6067HK4E	14L, Fire Truck	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)
		871	Non-jake					
6067HK5E	14L, Crane	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)
		871	Non-jake					
6067HK6E	14L, On-highway Truck	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)
		871	Non-jake					
6067HK60	14L, U.S. On-Highway	0746	12 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
		0755	24 volt	23524912 23524292	92J	81.0	790A	0.660 mm (.026 in)
		766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)
6067HK62	14L, Aust.	0752	12 volt	23524912 23524292	92J	81.0	790C	0.660 mm (.026 in)
		0754	24 volt	23524912 23524292	92J	81.0	790C	0.660 mm (.026 in)

Series 60 Model Year 2000 and Higher

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting	
6067HV2E	141, Coach	881	12V	23532935	122J	Refer to Detroit Diesel Service Manual	797	0.580mm (.020 in)	
		905	24V	23532936	122J		797	0.580mm (.020 in)	
6067HV4E	141, Firetruck	881	12V	23532935	122J		797	0.580mm (.020 in)	
		905	24V	23532936	122J		797	0.580mm (.020 in)	
6067HV5E	141, Crane	881	12V	23532935	122J		797	0.580mm (.020 in)	
		905	24V	23532936	122J		797	0.580mm (.020 in)	
6067HV6E	14L, On-Highway	881	12V	23532935	122J		797	0.580mm (.020 in)	
		905	24V	23532936	122J		797	0.580mm (.020 in)	
6067LK28	11.1L	0744	Non-jake	23524914	97J		81.0	790B	0.660 mm (.026 in)
6067LK45	11.1L	0744	Non-jake	23524914	97J		81.0	790B	0.660 mm (.026 in)
6067LK57	11.1L	0744	Non-jake	23524914	97J	81.0	790B	0.660 mm (.026 in)	
6067LK60	11.1L	0744	Non-jake	23524914	97J	81.0	790B	0.660 mm (.026 in)	
6067MK1E	12.7L, Transit, Coach	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)	
		871	Non-jake						
6067MK2E	12.7L, Parlor, Coach	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		870	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)	
		871	Non-jake						
6067MK4E	12.7L, Fire Truck	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)	
		871	Non-jake						
6067MK5E	12.7L, Crane	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)	
		871	Non-jake						
6067MK6E	12.7L, On-highway Truck	858	12 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		864	24 volt	23531130	109J	82.1	797	0.580 mm (.020 in)	
		853	12 volt	23529653	101J	82.1	797	0.580 mm (.020 in)	
		871	Non-jake						
6067MK28	12.7L Std, Coach	0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)	
		0738	Brake ready	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0743	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0744	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0745	12 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0751	24 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)			

Series 60 Model Year 2000 and Higher

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting	
6067MK33			12 volt		107J		790D		
			24 volt		107J		790D		
6067MV2E	12.71, Coach	881	12V	23532935	122J	Refer to Detroit Diesel Service Manual	797	0.580mm (0.20 in)	
		905	24V	23532936	122J		797	0.580mm (0.20 in)	
6067MV4E	12.71, Firetruck	881	12V	23532935	122J		797	0.580mm (0.20 in)	
		905	24V	23532936	122J		797	0.580mm (0.20 in)	
6067MV5E	12.71, Crane	881	12V	23532935	122J		797	0.580mm (0.20 in)	
		905	24V	23532936	122J		797	0.580mm (0.20 in)	
6067MV6E	12.71, On-Highway	881	12V	23532935	122J		797	0.580mm (0.20 in)	
		905	24V	23532936	122J		797	0.580mm (0.20 in)	
6067MK45	12.7L Std, Fire truck	0712	Brake ready	23524912 23524292	92J		81.0	770	0.584 mm (.023 in)
		0738	Brake ready	23524912, 23524292	92J		81.0	790	0.660 mm (.026 in)
		0743	Non-jake	23524912, 23524292	92J		81.0	790	0.660 mm (.026 in)
		0744	Non-jake	23524912, 23524292	92J		81.0	790	0.660 mm (.026 in)
		0745	12 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0751	24 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
6067MK57	12.7L Std, Crane	0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)	
		0738	Brake ready	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0743	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0744	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0745	12 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0751	24 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
6067MK60	12.7L Std, On-Highway	0712	Brake ready	23524912 23524292	92J	81.0	770	0.584 mm (.023 in)	
		0738	Brake ready	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0743	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0744	Non-jake	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0745	12 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0751	24 volt	23524912, 23524292	92J	81.0	790	0.660 mm (.026 in)	
		0764	Non-jake	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0765	24 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
		0766	12 volt	23528309	101J	82.1	795	0.813 mm (.032 in)	
6067PK62	12.7L	0744	Non-jake	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)	
		0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)	
		0747	12 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)	
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)	
		0749	24 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)	
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)	

Series 60 Model Year 2000 and Higher

Engine Model	Engine Description	Valve Mech	Engine Option	Cam Part Number	Cam Type	Injector Adjustment	Brake Model	Lash Setting
6067TK28	12.7L	0744	Non-jake	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0747	12 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0749	24 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
6043TK33					90J		750B	
6063TK32	12.7L, Underground Mining	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6063TK33	12.7L, Non-Road	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6063TK35	12.7L, Non-Road	0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6067TK60	12.7L	0744	Non-jake	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0747	12 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0749	24 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
6067TK62	12.7L	0744	Non-jake	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0747	12 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0747	12 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0749	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524908 23521681	47J	80.3	790B	0.660 mm (.026 in)
		0756	24 volt	23524906 23513564	32J	78.8	790B	0.660 mm (.026 in)
6067WK28	11.1L, Coach	0749	24 volt	23524898 23513562	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524900 23518718	32J	78.8	790B	0.660 mm (.026 in)
6063WK32	11.1L, Underground Mining	0749	24 volt	23524898 23513562	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524900 23518718	32J	78.8	790B	0.660 mm (.026 in)
6067WK60	11.1L, On-Highway	0749	24 volt	23524898 23513562	32J	78.8	790B	0.660 mm (.026 in)
		0749	24 volt	23524900 23518718	32J	78.8	790B	0.660 mm (.026 in)

Brake Model	Description	Base Kit	Engine Control	Cab Control											
797	Engine Brake Kit 12VDC	31361	See Note 1	20220	<p>To decide if your engine is a Model year 2000 you need to know the manufacture date. Any engine built after December 15, 1999 are 2000 model year engines. If you do not know your engine manufacture date you will need to contact your local Detroit dealer.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Notes</p> <p>1. Engine control group is required for Non-Jake engines only. Any one of the following part numbers may be used:</p> <p>2003 and lower</p> <table style="width: 100%;"> <tr> <td>24917</td> <td>Harness</td> </tr> <tr> <td>23526101</td> <td>On Highway Harness</td> </tr> <tr> <td>23526102</td> <td>Industrial Harness</td> </tr> </table> <p>2004</p> <table style="width: 100%;"> <tr> <td>23532014</td> <td>HARNES ASM ENG EDU TO INJ W/2 SOL</td> </tr> <tr> <td>23534244</td> <td>HARNES ASM ENG EDU TO INJ DDEC V</td> </tr> </table> </div>	24917	Harness	23526101	On Highway Harness	23526102	Industrial Harness	23532014	HARNES ASM ENG EDU TO INJ W/2 SOL	23534244	HARNES ASM ENG EDU TO INJ DDEC V
24917	Harness														
23526101	On Highway Harness														
23526102	Industrial Harness														
23532014	HARNES ASM ENG EDU TO INJ W/2 SOL														
23534244	HARNES ASM ENG EDU TO INJ DDEC V														
797	Engine Brake Kit 24VDC	31860	See Note 1	20220											
795	Engine Brake Kit 12VDC	30505	See Note 1	20220											
795	Engine Brake Kit 24VDC	30506	See Note 1	20220											
790	Engine Brake Kit 12VDC	29240	See Note 1	20220											
790	Engine Brake Kit 24VDC	29020	See Note 1	20220											
790A	Engine Brake Kit 12VDC	29123	See Note 1	20220											
790A	Engine Brake Kit 24VDC	29292	See Note 1	20220											
790B	Engine Brake Kit 12VDC	29302	See Note 1	20220											
790B	Engine Brake Kit 24VDC	29304	See Note 1	20220											
790C	Engine Brake Kit 12VDC	29321	See Note 1	20220											
790C	Engine Brake Kit 24VDC	29323	See Note 1	20220											
790D	Engine Brake Kit 12VDC	31222	See Note 1	20220											
790D	Engine Brake Kit 24VDC	31224	See Note 1	20220											
770	Engine Brake Kit 12VDC (3 Housing)	26546	See Note 1	20220											
770	Engine Brake Kit 12VDC (2 Housing)	26544	See Note 1	20220											
770	Engine Brake Kit 24VDC (3 Housing)	26547	See Note 1	20220											
770	Engine Brake Kit 24VDC (2 Housing)	26545	See Note 1	20220											

Series 60 Engines Manufactured before December 15, 1999.

Engine Model	Control Type	Brake Model	12V Base Kit	24V Base Kit	Engine Control	Cab Control	Clutch Switch	Slave Piston Lash Setting
Series 60 Three-housing Engine Brake Kits								
6063GK32	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6063GK33	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6063GK60	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6063GU60	DDEC II	765	18112	19032	24918	17332	12261	0.660 mm (.026 in)
6063HK33	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6063HK35	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6063SK33	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6063WK32	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6063WK60	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6063WU60	DDEC II	760A	18113	18974	24918	17332	12261	0.660 mm (.026 in)
6067BK28	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067BK45	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067BK57	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067BK60	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067EK28	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)

Series 60 Engines Manufactured before December 15, 1999.

Engine Model	Control Type	Brake Model	12V Base Kit	24V Base Kit	Engine Control	Cab Control	Clutch Switch	Slave Piston Lash Setting
Series 60 Three-housing Engine Brake Kits (Continued)								
6067EK45	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067EK57	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067EK60	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067GK28	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6067GK45	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6067GK57	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6067GK60	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6067GK91	DDEC III	765	18112	19032	24917	20220	N/R	0.660 mm (.026 in)
6067GU28	DDEC II	765	18112	19032	24918	17332	12261	0.660 mm (.026 in)
6067GU40	DDEC II	760A	18113	18974	24918	17332	12261	0.508 mm (.020 in)
6067GU60	DDEC II	765	18112	19032	24918	17332	12261	0.660 mm (.026 in)
6067GU91	DDEC II	765	18112	19032	24918	17332	12261	0.660 mm (.026 in)
6067HK60	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067HK62	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067LK28	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067LK45	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067LK57	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067LK60	DDEC IV	760B	25419	25412	24917	20220	N/R	0.584 mm (.023 in)
6067MK28	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067MK45	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067MK57	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067MK60	DDEC IV	770	26546	26547	24917	20220	N/R	0.584 mm (.023 in)
6067PK28	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067PK45	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067PK57	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067PK60	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067SK28	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067SK45	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067SK57	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067SK60	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067TK28	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067TK45	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067TK57	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067TK60	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067TK6K	DDEC IV	765A	25326	25333	24917	20220	N/R	0.584 mm (.023 in)
6067WK28	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067WK60	DDEC III	760A	18113	18974	24917	20220	N/R	0.660 mm (.026 in)
6067WU40	DDEC II	760A	18113	18974	24918	17332	12261	0.660 mm (.026 in)
6067WU60	DDEC II	760A	18113	18974	24918	17332	12261	0.660 mm (.026 in)

N/R=Not Required

Engine Model	Control Type	Brake Model	12V Base Kit	24V Base Kit	Engine Control	Cab Control	Clutch Switch	Slave Piston Lash Setting
Series 60 Two-housing Engine Brake Kits								
6067BK28	DDEC IV	770	26544	26545	24919	20491	N/R	0.584 mm (.023 in)
6067EK28	DDEC IV	760B	25416	25411	24919	20491	N/R	0.584 mm (.023 in)
6067GK28	DDEC III	765	20796	19257	24919	20491	N/R	0.660 mm (.026 in)
6067GU28	DDEC II	765	20796	19257	24920	19097	12261	0.660 mm (.026 in)
6067LK28	DDEC IV	760B	25416	25411	24919	20491	N/R	0.584 mm (.023 in)
6067MK28	DDEC IV	770	26544	26545	24919	20491	N/R	0.584 mm (.023 in)
6067PK28	DDEC IV	765A	25321	25323	24919	20491	N/R	0.584 mm (.023 in)
6067SK28	DDEC III	760A	20797	19281	24919	20491	N/R	0.660 mm (.026 in)
6067TK28	DDEC IV	765A	25321	25323	24919	20491	N/R	0.584 mm (.023 in)
6067WK28	DDEC III	760A	20797	19281	24919	20491	N/R	0.660 mm (.026 in)

Note: Two-housing and three-housing engine brake kits are available for the engine model numbers listed in this section. Refer to the appropriate section for the application in question. If a two-housing kit is required for an engine model not listed here, please consult your Detroit Diesel Distributor.

Series 50 Engine Brake Kits

6043GK32	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6043GU60	DDEC II	750	19297	20297	24920	19097	12261	0.660 mm (.026 in)
6047GK28	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GK45	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GK50	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GK57	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GK59	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GK60	DDEC III	750	19297	20297	24919	20491	N/R	0.660 mm (.026 in)
6047GU26	DDEC II	750	19297	20297	24920	19097	12261	0.660 mm (.026 in)
6047GU28	DDEC II	750	19297	20297	24920	19097	12261	0.660 mm (.026 in)
6047GU60	DDEC II	750	19297	20297	24920	19097	12261	0.660 mm (.026 in)
6047MK28	DDEC IV	750B	26936	26937	24919	20491	N/R	0.660 mm (.026 in)
6047MK45	DDEC IV	750B	26936	26937	24919	20491	N/R	0.660 mm (.026 in)
6047MK50	DDEC IV	750B	26936	26937	24919	20491	N/R	0.660 mm (.026 in)
6047MK57	DDEC IV	750B	26936	26937	24919	20491	N/R	0.660 mm (.026 in)
6047MK60	DDEC IV	750B	26936	26937	24919	20491	N/R	0.660 mm (.026 in)
6047TK28	DDEC IV	750A	25355	25337	24919	20491	N/R	0.584 mm (.023 in)
6047TK45	DDEC IV	750A	25355	25337	24919	20491	N/R	0.584 mm (.023 in)
6047TK50	DDEC IV	750A	25355	25337	24919	20491	N/R	0.584 mm (.023 in)
6047TK57	DDEC IV	750A	25355	25337	24919	20491	N/R	0.584 mm (.023 in)

N/A = Not Available

N/R=Not Required

Engine Model	Control Type	Brake Model	12V Base Kit	24V Base Kit	Engine Control	Cab Control	Clutch Switch	Slave Piston Lash Setting
Series 71 and Series 92 Engine Brake Kits								
4-71 DDEC III	DDEC III	71/92A	25915	N/A	Included	Included	N/R	1.50 mm (.059 in)
6-71 Mech.	Mechanical	71/92A	13598	N/A	Included	Included	Included	1.50 mm (.059 in)
6V-71 Mech.	Mechanical	71/92A	13600	N/A	Included	Included	Included	1.50 mm (.059 in)
8V-71 Mech.	Mechanical	71/92A	13606	25142	Included	Included	Included	1.50 mm (.059 in)
6V-92 Mech.	Mechanical	71/92A	13634	N/A	Included	Included	Included	1.50 mm (.059 in)
6V-92 DDEC	DDEC II	71/92A	14525	17905	16795	17363	12261	1.50 mm (.059 in)
6V-92 DDEC	DDEC III	71/92A	14525	17905	20824	20823	N/R	1.50 mm (.059 in)
8V-92 Mech.	Mechanical	71/92A	13641	11822	Included	Included	Included	1.50 mm (.059 in)
8V-92 DDEC	DDEC II	71/92A	14526	14919	16789	17363	12261	1.50 mm (.059 in)
8V-92 DDEC	DDEC III	71/92A	14526	14919	20840	20823	N/R	1.50 mm (.059 in)
Series 40 Exhaust Brake Kits								
7.6 Liter	Mechanical	EX466P	19339	N/A	Included	Included	Included	Not Applicable
8.7 Liter	Mechanical	EX530P	20013	N/A	Included	Included	Included	Not Applicable
Series 53 Engine Brake Kits								
6V-53	Mechanical	53A	N/A	13480	17358	3975	Included	See Notes (page1)
Series 55								
N/A = Not Available								
P/N 23550588 Jacobs Exhaust Brake™ for FLD Chassis								
P/N 23550590 Jacobs Exhaust Brake™ for FLX Chassis								

Tuneup Kits

Model	Use Kit	Model	Use Kit
750	20530	765A	20531
750A	20530	765A (two-housing kit)	20530
750B	26615	770	26618
760	19875	770 (two-housing kit)	26615
760A	20531	790/795	29013
760A (two-housing kit)	20530	797	32146
760B	25405	6V-71/92A	17056
760B (two-housing kit)	25455	8V-71/92A	17057
765	20531	8V-92 including 24V solenoids	21093
765 (two-housing kit)	20530	6V-53A	18181

Jacobs Service

Description	Applications**	P/N
0.508 mm (.020 in) Feeler Gage	760, 760A, 797 **	17278
0.584 mm (.023 in) Feeler Gage	750A, 750B, 760B, 765A, 770, 790 Series **	25397
0.660 mm (.026 in) Feeler Gage	750, 760, 760A, 765 **	17671
0.813 mm (.032 in) Feeler Gage	795 **	30504
1.500 mm (.059 in) Feeler Gage	71/92A **	7958
1.626 mm (.064 in) Feeler Gage	71/92A **	3496
Slave Piston Removal Tool	71/92A, 53A,	18238
Bridge Assembly Tool Group	53A	2881
Oil Pressure Test Kit	All Engine Brakes	18280
Master Piston Assembly tool, 797	797/797A	J-45976

** Refer to engine model for proper lash setting.

Service Parts & Groups

Description	Applications**	P/N
Power-Lash™ (6) Pack of 20382	750, 750A, 760, 760A, 765, 765A	20514
Power-Lash™ (4) Pack of 20382	750, 750A, 760, 760A, 765, 765A	20518
J-Lash™ (6) Pack of 28082	750B, 770	28084
J-Lash™ (4) Pack of 28082	750B, 770	28083
J-Lash™ (12) Pack of 28375	790	29019
J-Lash™ (12) Pack of 29300	790A	29414
J-Lash™ (12) Pack of 29317	790B&D	29415
J-Lash™ (12) Pack of 29310	790C	29416

Notes

Notes

Jacobs Vehicle Systems
22 East Dudley Town Road
Bloomfield, CT 06002



Jacobs Vehicle Systems

Visit us on the Internet: www.jakebrake.com