

# COMPLETE YOUR OVERHAUL

With a Genuine JAKE BRAKE® Tune-Up Kit

## DRIVE STRONGER, LONGER. ADD A JAKE BRAKE TUNE-UP KIT TO YOUR ENGINE OVERHAUL.

Give your industry-leading Jake Brake the maintenance it deserves to ensure the increased safety, greater speed control, and extended brake life that you have come to expect.

Genuine Jake Brake parts can be purchased through your engine OEM or local service center. Jacobs common components may be available through multiple engine OEMs or independent distributors. Visit [jakebrake.com/service-parts-support](http://jakebrake.com/service-parts-support) for more details.

### FEATURES & BENEFITS

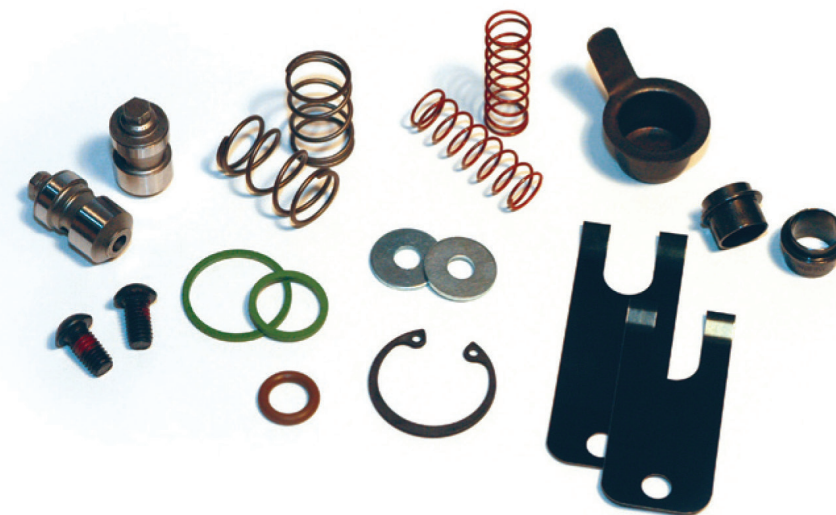
- Restores your Jake Brake to its original performance levels
- Allows technicians to evaluate the condition of the entire brake
- Targets known wear parts to minimize cost
- Avoids additional labor in the future
- Backed by a replacement parts warranty
- Includes detailed installation instructions
- Installed by authorized service centers

## RECOMMENDED PREVENTIVE MAINTENANCE SCHEDULE

PART	FIRST ENGINE VALVE ADJUSTMENT	300-500K MILES / 480-805K KM
Wiring, Terminal Connections	I	I
Clutch/Throttle/Buffer	A	A/R
Safety Valve Screw Assembly	I	R
Solenoid Valves		R
Reset/Auto-Lash® Assembly		I/R
Crosshead/Bridges/Valve Stem Caps		I/R
Injector/Exhaust Rocker Arm Screws	I	I/R
Master Piston/Fork Assembly		I/R
Slave Pistons		I
External Hose Assembly	I	I/R
Housings		I
Fuel Pipes	I	I/R
Hold Down Bolts		R
Accumulator Springs*		R
Solenoid Harness*		I/R
Solenoid Seal Rings*		I/R
Control Valve Springs*		I/R
Oil Seals Rings*	I	I/R
Master Piston Return Springs*	I	
Terminal Lead Out*	I	
Crosshead Pin Assembly*	I	

The suggested intervals presented here are intended as a guide for establishing a routine Jake Brake inspection and maintenance in conjunction with scheduled engine maintenance.

I = Inspect A = Adjust R = Replace



*Severe driving conditions, road types, and driving areas will affect the length of time between scheduled maintenance. Engines exposed to severe applications and operating environments may require more frequent preventive maintenance, thereby altering engine retarder maintenance intervals as well.*

\* Contained in tune-up kits

	Engine Model	Brake Model	Tune-up Kit OEM P/N	Jacobs P/N	12V Solenoid OEM P/N	Jacobs P/N	24V Solenoid OEM P/N	Jacobs P/N
<b>CATERPILLAR</b>	C10	310 SERIES	143-6626	19502	163-1533	1024610	163-1553	1024617
	C12	312 SERIES	143-6626	19502	163-1533	1024610	163-1553	1024617
	3176	317, 317 A/B/C	143-6576	18158	163-1550	1024613	N/A	N/A
	3176	317 D/E	143-6626	19502	163-1550	1024613	N/A	N/A
	3306 SERIES	336, 336A	143-6623	19469	163-1547	1024614	163-1535	1025108
	3406 MECHANICAL	346 SERIES	143-6479	14087	163-1538	1025106	163-1536 S/L 163-1535 D/L	1024615 1025108
	3406 MECHANICAL	349, 349A	143-6622 <sup>X</sup>	19461 <sup>X</sup>	163-1547	1024614	N/A	N/A
	3406E, C15, C16, C18	340 SERIES	143-6628	19654	163-1533	1024610	163-1553	1024617
	<b>CUMMINS</b>	NH/NT	25B, 30, 30E, 400, 400H	3871418	13950	3871707	1024613	3871708
NH/NT		401 SERIES	3871535	17687	3871707	1024613	3871708	1024616
NH/NT		420, 425	3871536	17688	3871707	1024613	3871708	1024616
NH/NT		425A	3871537	17689	3871707	1024613	3871708	1024616
88/89 NT		430 SERIES	3871538	17690	3871707	1024613	3871708	1024616
L-10		404/404B	3871540	17723	3871707	1024613	3871708 S/L 3871709 D/L	1024616 1024617
L-10		404BG	3871586	20131	3871707	1024613	3871708 S/L 3871709 D/L	1024616 1024617
ISL/ISC		490/490A	3800917	26303	4024759	1024614	4089625	1025107
M11/ISM		404D & 411 SERIES	3871580	19848	3871707	1024613	3871708 S/L 3871709 D/L	1024616 <sup>+</sup> 1024617 <sup>+</sup>
M11/ISM		411C	3871580	19848	3871711	1024610	N/A	N/A
N-14		440A, 445, 450AB	3871568	19305	3871707	1024613	3871708	1024616
N14 PLUS		455 SERIES	3871704	20923	3871707	1024613	3871708	1024616
ISX 15L		INTEBRAKE PRE-2010	2882081	28280	4024759	1024614	N/A	N/A
ISX 15L / X15		INTEBRAKE 2010+	2882081	28280	3686406	1039012 <sup>o</sup>	N/A	N/A
ISX 11.9L		460	3001340	40355	3686406	1039012 <sup>o</sup>	N/A	N/A
ISX 12 / ISX 12G / ISX 12N		465/465A	4376508	41797	3686406	1039012 <sup>o</sup>	N/A	N/A

	Engine Model	Brake Model	Tune-up Kit OEM P/N	Jacobs P/N	12V Solenoid OEM P/N	Jacobs P/N	24V Solenoid OEM P/N	Jacobs P/N
<b>DAIMLER / DETROIT</b>	SERIES 60, 11.1L	760	19875	19875	1024612	1024612	1024619	1024619
	SERIES 60	760A, 765, 765A	20531	20531	1024612	1024612	1024619	1024619
	SERIES 50 & 60	750, 750A, 760A, 765, 765A (2 HOUSINGS)	20530	20530	1024612	1024612	1024619	1024619
	SERIES 60, 11.1L	760B	25405	25405	1024612	1024612	1024619	1024619
	SERIES 60, 11.1L	760B (2 HOUSINGS)	25455	25455	1024612	1024612	1024619	1024619
	SERIES 60	770	26618	26618	1024612	1024612	1024619	1024619
	SERIES 50 & 60	750B, 770 (2 HOUSINGS)	26615	26615	1024612	1024612	1024619	1024619
	SERIES 60	790, 795	29013	29013	1024612	1024612	1024619	1024619
	SERIES 60	797, 797A	32146	32146	1024612	1024612	1024619	1024619
	SERIES 60	797B	32146	32146	1034737	1034737	N/A	N/A
	SERIES 6V-53	53A	N/A	N/A	N/A	N/A	1024619	1024619
	SERIES 71, SERIES 92	6V-71/92A	17056	17056	1024613	1024613	1024616	1024616
	SERIES 71, SERIES 92	8V-71/92A	17057	17057	1024613	1024613	1024616	1024616
DD 13, DD 15, DD 16, OM470, OM471, OM473	720/721/722	N/A	N/A	A472 153 12 59	1047669 <sup>*o</sup>	N/A	N/A	
<b>MACK</b>	E6 2 VALVE	675, 675A	4559-18676	18676	4559-1024614	1024614	4559-1025108	1025108
	E6 4 VALVE	680A	4559-18677	18677	4559-1024614	1024614	4559-1025108	1025108
	E7 4 VALVE	680B	4559-18678	18678	4559-1024614	1024614	4559-1025108	1025108
	E7 ETECH	690 SERIES J-TECH	4559-31180	31180	4559-1024614	1024614	4559-1025108	1025108
<b>RVI</b>	dCi11	615	N/A	N/A	N/A	N/A	5001862099	1024617
<b>INTERNATIONAL</b>	Maxxforce 11, 13 B783, B718, N13, A26	5783, 5783A	CVG: 3008454C1 SPG: 3008452C1	CVG: 39893 SPG: 39894	3008453C1	39895 <sup>o</sup>	N/A	N/A
	I-313, I-341	5313 (12V)	AP: 1833946C92	AP: 38296	1844402C1	31679	N/A	N/A
	I-335	5313 (24V)	AP: 1833946C92	AP: 38296	N/A	N/A	1846608C1	33527
	I-326	5326 (12V)	AP: 1833946C92	AP: 38296	1833949C1	35301	N/A	N/A

CVG = Control Valve Group SPG = Slave Piston Group AP = Actuator Piston with Nut ° Type II Solenoid \* Contained in tune-up kits  
<sup>X</sup>No longer available, most individual parts available <sup>+</sup> Only available for Model 404D and Model 411, not 411 C, D or E

	Engine Model	Brake Model	Tune-up Kit OEM P/N	Jacobs P/N	12V Solenoid OEM P/N	Jacobs P/N	24V Solenoid OEM P/N	Jacobs P/N
DAF	MX-11	108	N/A	N/A	N/A	N/A	2293966	041151 <sup>o</sup>
	MX-13	129	N/A	N/A	N/A	N/A	1673521	025108
PACCAR	MX-11	108	N/A	N/A	2293967	041152 <sup>o</sup>	N/A	N/A
	MX-13	129	N/A	N/A	1739797	020997	N/A	N/A
DOOSAN	DV11	2210 SERIES	N/A	N/A	N/A	N/A	65.25900-6014	1024606
FUSO	6M61	MDIPT	N/A	N/A	N/A	N/A	ME300248	024938
HINO	A09	971	N/A	N/A	27680-EV020	44772	N/A	N/A
HYUNDAI	L ENGINE EURO 3	2100B SERIES	N/A	N/A	N/A	N/A	59614-7F900	1035518
	L ENGINE EURO 1, 2	2100A SERIES	N/A	N/A	N/A	N/A	59614-7F900	1035518
	H ENGINE	2120 SERIES	N/A	N/A	N/A	N/A	59681-7L250	1038272
VOLVO / VECV	MDE8, VEX8	179	CV: 21953067 AP: 21953056	CV: 41510 AP: 41509	N/A	N/A	21953045	41508

CVG = Control Valve Group    SPG = Slave Piston Group    AP = Actuator Piston with Nut    <sup>o</sup> Type II Solenoid    \* Contained in tune-up kits  
<sup>x</sup>No longer available, most individual parts available    <sup>+</sup> Only available for Model 404D and Model 411, not 411 C, D or E