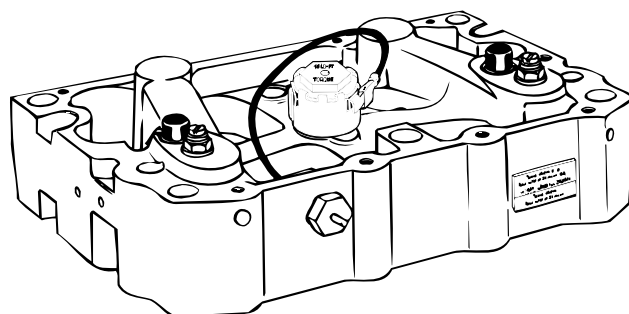




Parts Manual For N14 Engines



Models 450A/450B Housing Assemblies

Cummins P/N	Jacobs P/N	Description
3871564	021451	450A, 12 VDC, S/L
3871565	021457	450B, 12 VDC, S/L
3871581	021453	450A, 24 VDC, S/L
3871583	021459	450B, 24 VDC, S/L
3871582	021455	450A, 24 VDC, D/L
3871584	021461	450B, 24 VDC, D/L

Application Notes

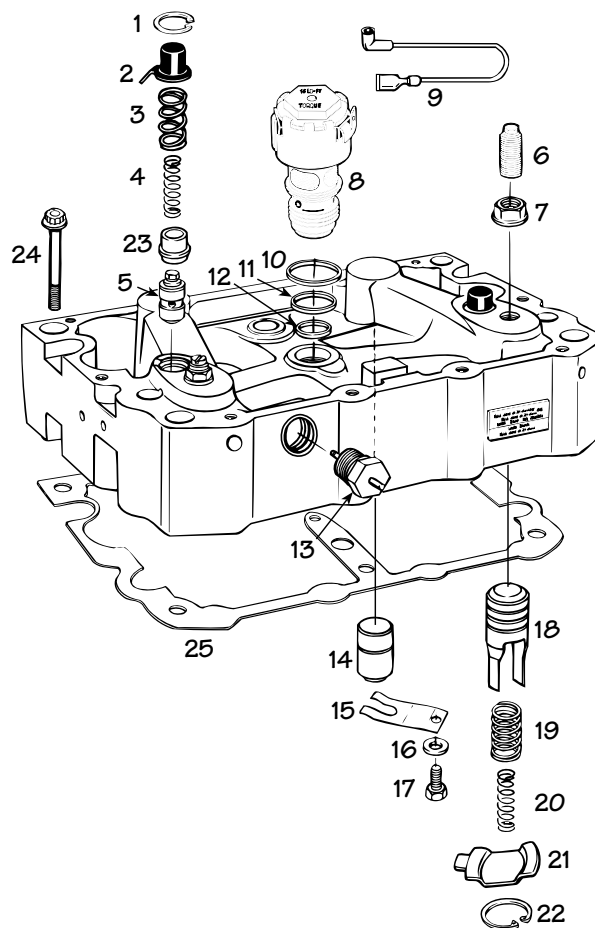
The Models 450A and 450B CBrake by Jacobs™ engine retarders are designed and approved for use on Cummins 1994 N14 engines. Information in this manual was current at the time of printing and is subject to change without notice or liability.

Refer to Cummins Bulletins and instructional literature for specific application information.

III. No.	Cummins P/N	Jacobs P/N	Description	Quan./ Group
1	3871373	011284	Retain. ring, control valve	2
2	3871365	011252	Cover, control valve	2
3	3871366	011253	Outer spring, control valve	2
4	3871345	007500	Inner spring, control valve	2
5	3871393	011930	Spool assy., control valve	2
6	3871675	020449	Auto-Lash® assy.* - 450A	2
6	3871677	020511	Auto-Lash® assy.* - 450B	2
7	3871351	009353	Hex nut*	2
8	3871635	021252	Solenoid valve, 12V	1
NI	3871636	021254	Solenoid valve, 24V, S/L	1
NI	3871637	021253	Solenoid valve, 24V, D/L	1
9	3871634	021296	Harness, solenoid	1
10	3871638	020229	Seal ring, upper	1
11	3871217	001082	Seal ring, center	1
12	3871218	001083	Seal ring, lower	1
13	3073972	017366	Connector, electrical**	1
NI	3073974	017367	Connector, electrical D/L**	1
14	3871659	019255	Master piston	2
15	3871561	018792	Flat spring	2
16	3871208	001030	Plain washer	2
17	3871248	001492	Hex head cap screw	2
18	3871660	018156	Slave piston	2
19	3871546	018183	Outer spring, slave piston	2
20	3871547	018184	Inner spring, slave piston	2
21	3871550	018197	Retainer, slave piston spring	2
22	3871526	017507	Retain. ring, slave piston	2
23	3871364	011251	Collar, control valve	2

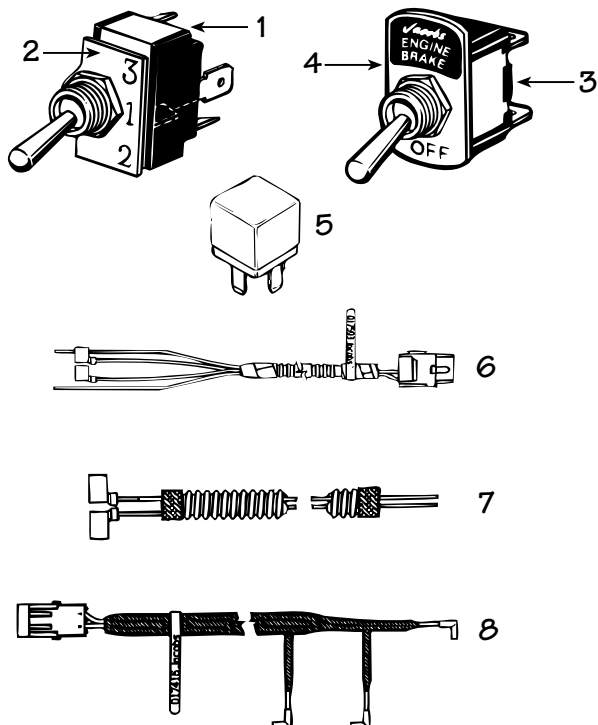
* Auto-Lash assembly includes P/N 009353 (Cummins P/N 3871351) nut.

** Cummins P/N 3073972 (Jacobs P/N 017366) has O-ring. Use Parker No. 3-908 or equivalent for replacement.



Attaching Parts

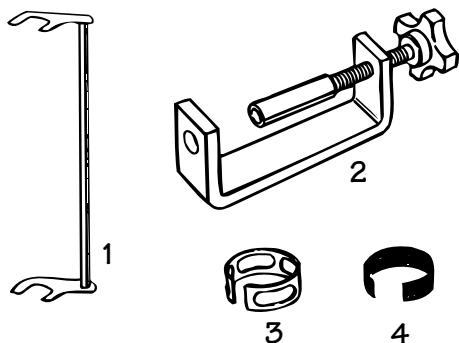
III. No.	Cummins P/N	Jacobs P/N	Description	Quan./ Group
24	205643	019295	Mounting screw	6
25	3871481	016846	Brake housing gasket	1



Control Groups CELECT™ Engines

III. No.	Cummins P/N	Jacobs P/N	Description	Quan./ Group
	3871661	021479	Cab Control Group	
1	3871268	002957	3-position switch	1
2	3871265	002959	3-position dash plate	1
3	3871459	016264	ON/OFF switch	1
4	3871244	001305	ON/OFF dash plate	1
5	3871486	016933	Relay switch	1
6	3871663	017593	Relay base	1
7	3871548	018187	Engine to selector switch harness	1
NI	3871339	006833	Cable tie	8
NI	3871664	018114	Wiring diagram	1
			Engine Control	
8	3074287	017416	Harness	1

Service Parts



III. No.	Cummins P/N	Jacobs P/N	Description
1	3871534	017685	Feeler gage, 0.023" (0.584 mm)
2	3871654	017397	Slave piston removal tool
3	3871655	020228	Solenoid screen retainer
4	3871656	020227	Solenoid screen
NI	3871568	019305	Tune-up kit

S/L Single Lead
D/L Dual Lead
NI Not Illustrated



Cummins Engine Company, Inc.
Box 3005
Columbus, IN 47202-3005
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