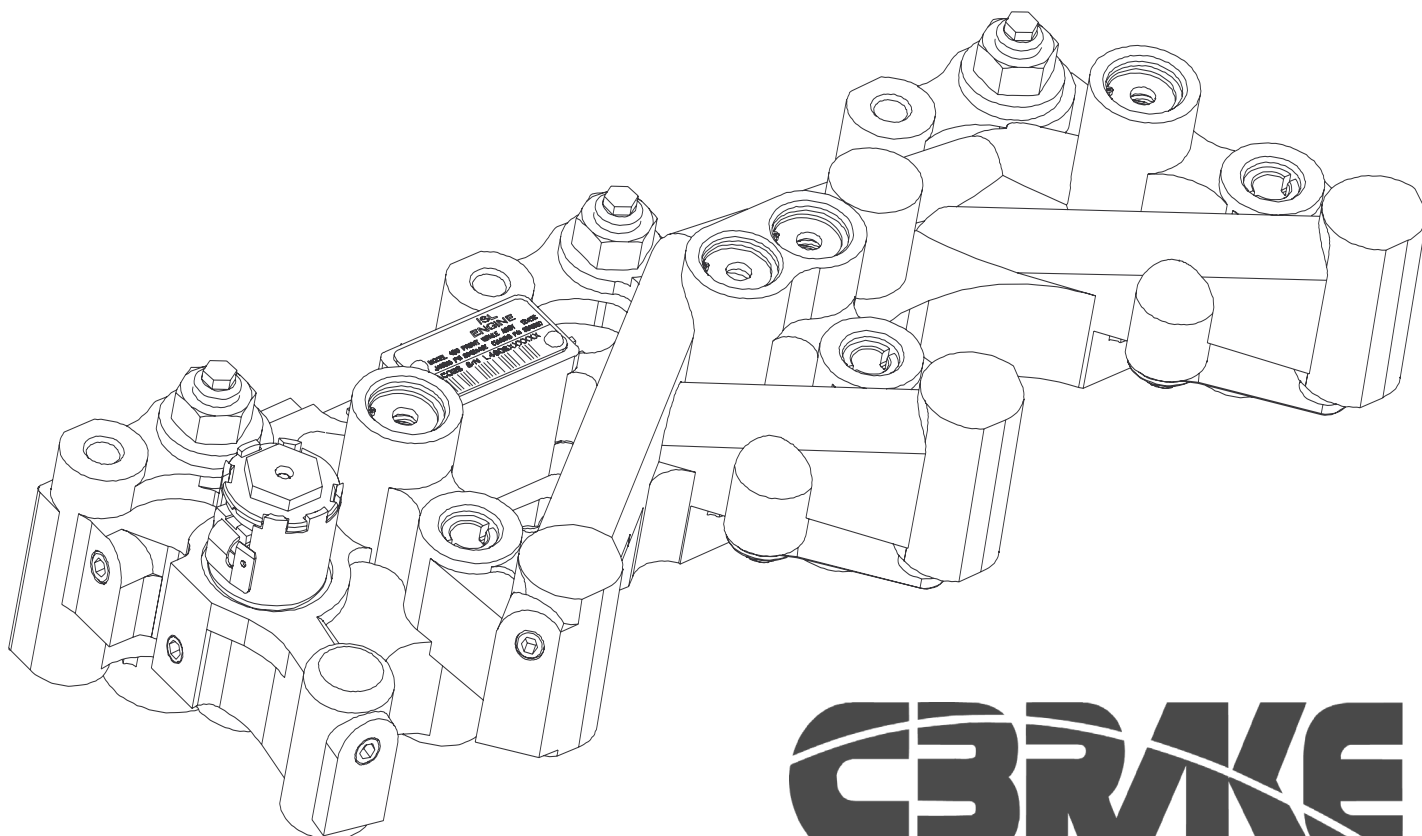




Jacobs Vehicle Systems®

Model 490/490A Parts Manual

**ISL98, ISL03, ISL07, ISC07, ISL 2010, ISC 2010,
ISL 2013, L9 2017, L9 2021 Engines**



CBRAKE
By **Jacobs®**

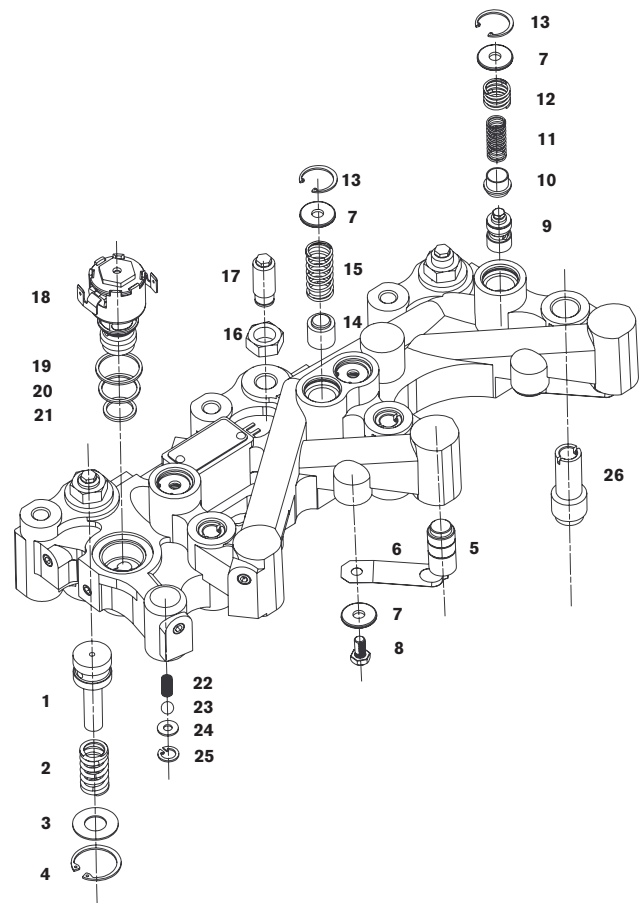
Model 490A Aftermarket Kit

Cummins P/N	Brake Model	Engine Description
5708741	490A	ISL03 to L9 2021 12 VDC Kit

Ill. No.	Cummins P/N	Jacobs P/N	Description	Qty/ Group
1	4024748	00-024409	Slave piston 7/8	3
2	4024749	00-018209	Slave piston spring	3
3	3871410	00-013500	Spring retainer	3
4	3871373	00-011284	Retaining ring	3
5	4024750	00-025842	Master piston, 5/8 dia.	3
6	4024751	00-018722	Flat spring	3
7	4024752	00-021038	Plain washer	6
8	4024753	00-018730	Hex head screw	3
9	4299058	00-039022	Control valve	3
10	3871364	00-011251	Control valve collar	3
11	3871345	00-007500	Cont. valve spring (orange)	3
12	4024754	00-011434	Outer control valve spring	3
13	4024755	00-012291	Retaining ring	3
14	4024756	00-012983	Piston, Accumulator	1
15	4024757	00-012990	Spring, Accumulator	1
16	3871379	00-011395	Hex jam nut	3
17	4024758	00-024466	D-Lash screw assy	3
18	4024759	01-024614	Solenoid valve (12 V, S/L)	1
	4089625	01-025107	Solenoid valve (24V, S/L)	1
19	3871638	00-020229	Upper seal ring	1
20	4026537	00-001082	Center seal ring	1
21	3871218	00-001083	Lower seal ring (490 only)	1*
22	3871367	00-011259	Spring, check valve	1
23	3871370	00-011262	Ball, check valve	1
24	3871368	00-011260	Retainer, check valve	1
25	3871369	00-011261	Retaining ring, check valve	1
26	4024761	00-024423	Sleeve, Housing adjusting	3
NI	5257808		Harness, solenoid (490A 2007 or newer)	1
*Not used in 490A housings S/L = Single Lead NI = Not Illustrated				

Model 490A Housing Assemblies

Cummins P/N	Jacobs P/N	Description
5590891	00-031793	490A front, 12 VDC, S/L
5590892	00-031795	490A rear, 12 VDC, S/L
5590893	00-032658	490A front, 24 VDC, S/L
5590894	00-032659	490A rear, 24 VDC, S/L



Application Notes

The Model 490A CBrake by Jacobs® engine brake is designed and approved for use on Cummins ISL07 engines or newer. Information in this manual was current at the time of printing and is subject to change without notice or liability. Model 490 CBrake by Jacobs engine brake has been superseded by Model 490A.

The 490A brake is approved for use on the ISC07 and ISC 2010 engines. Use of the 490 or 490A brake on prior ISC engines is not approved.

Refer to Cummins service information and instructional literature for specific application information. Reference Cummins Technical Service Bulletin (TSB) 210223 for aftermarket installations. The TSB is intended to guide the end customer to the additional parts and tools required to be purchased along with the ENGINE BRAKE KIT to convert an engine NOT equipped with a Jake Brake® to a Jake Brake equipped engine. This document applies to all ISL and L series engines.