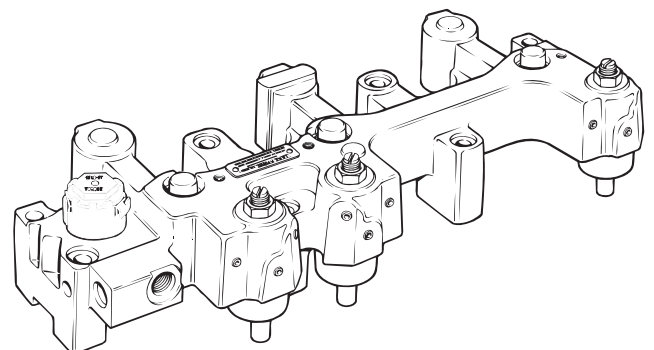




Parts Manual For M11, M11 Plus & ISM



Model 411/411C/D Aftermarket Kits

P/N	Description
3804584	411 kit, 12 VDC, S/L
3804585	411 kit, 24 VDC, S/L
3804586	411 kit, 24 VDC, D/L
3800765	411C kit, 12 VDC, D/L
4089395	411D kit, 12 VDC, S/L
4955458	411E kit, 12 VDC, S/L

Housing Assemblies

P/N	Description
4906837	411 front, 12 VDC, S/L
4906838	411 rear, 12 VDC, S/L
4906833	411 front, 24 VDC, S/L
4906834	411 rear, 24 VDC, S/L
4906829	411 front, 24 VDC, D/L
4906830	411 rear, 24 VDC, D/L
4906825	411C front, 12 VDC, D/L
4906826	411C rear, 12 VDC, D/L
3103430	411D front, 12 VDC, S/L
3103431	411D rear, 12 VDC, S/L
4966492	411E front, 12 VDC, S/L
4966493	411E rear, 12 VDC, S/L

No.	P/N	Description	Quantity		
			411/	411C/	411 D/E
1	3871477	Slave piston	3	3	3
2	3871353	Outer slave piston spring	3	3	3
3	3871352	Inner slave piston spring	3	3	3
4	3871410	Spring retainer	3	3	3
5	3871373	Retaining ring	6	6	6
6	3871515	Master piston, 11/16 dia.	3	3	3
7	3871518	Flat spring	3	3	3
8	3871384	Plain washer	3	3	3
9	3871383	Button head screw	3	3	3
10	3871372	Control valve	3	3	3
11	3871345	Cont. valve spring (orange)	3	3	3
12	3871366	Outer control valve spring	3	3	3
13	3871364	Control valve collar	3	3	3
14	3871365	Control valve cover	3	3	3
15	3871484	Reset screw assembly	3	3	3
	4970029	Reset screw assembly (411E ONLY)			3
16	3871379	Hex jam nut	3	3	3
17	3871707	Solenoid valve (12 V, S/L)	1	0	1
17	3871708	Solenoid valve (24 V, S/L)	1	0	0
17	3871709	Solenoid valve (24 V, D/L)	1	0	0
17	3871711	Solenoid valve (12 V, D/L)	0	1	0
18	3871638	Upper seal ring	1	0	1
19	4026537	Center seal ring	1	1	1
20	3871218	Lower seal ring	1	1	1
21	3871204	Ball	1	1	1
22	3871388	Ball check spring	1	1	1
23	2863691	Pipe plug	19	19	19
24	3871634	Solenoid harness (2 for D/L)	1	0	1

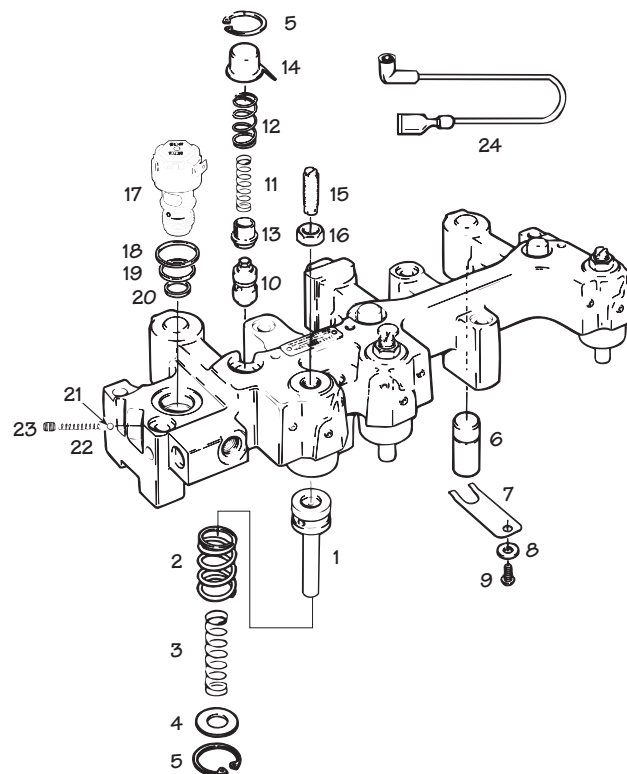
S/L = Single Lead, D/L = Double Lead, NI = Not Illustrated

Application Notes

The CBrake by Jacobs™ engine retarder is designed and approved for use on several Cummins engines. Refer to the chart below for model and approved engine use. Information in this manual was current at the time of printing and is subject to change without notice or liability.

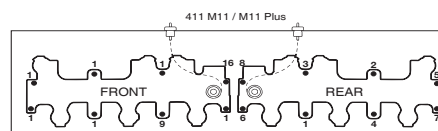
Model	Engine
411	M11 & M11 Plus
411C	ISM 1998 - 2001
411D	ISM 2002- 2006
411E	ISM 2007 - Present

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

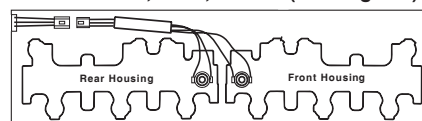


The exploded view shown is of the front housing. The rear housing is a "mirror" image of the front housing and contains the same components.

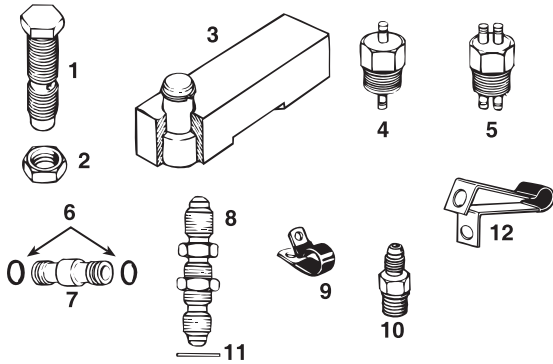
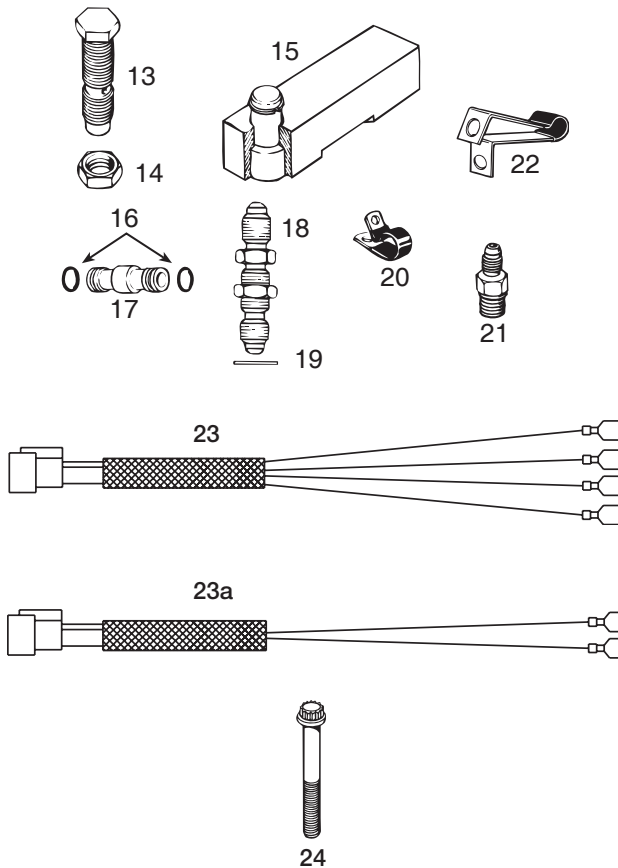
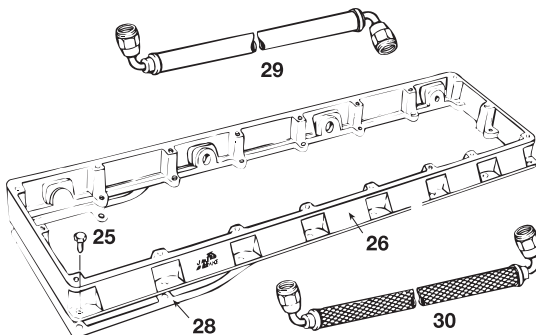
Model 411 (M11 and M11 PLUS ENGINES)



Model 411C, 411D, & 411E (ISM engines)



* 411 D/E will only have one wire per solenoid

MODEL 411 (M11 and M11 PLUS ENGINES)**MODEL 411 (ISM ENGINES)****MODEL 411 (M11 and M11 PLUS ENGINES)****Attaching Parts**

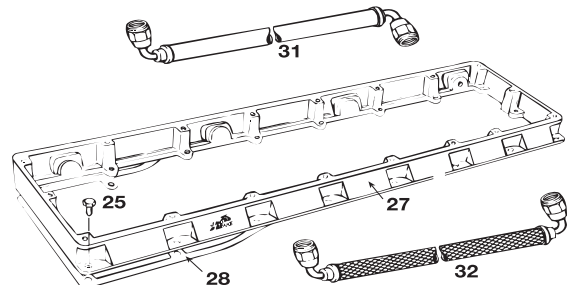
No.	P/N	Description	Quantity
Engine Attg. Parts Group 411			
1	3080759	Rocker Adjusting Screw	6
2	3066257	Hex jam nut	6
3	3106042	Crosshead assembly	6
4	3073972	Electrical connector	2
5	3073974	Electrical connector (D/L)	2
	3073975	Oil supply tube Assy (Ill. 6 & 7)	1
6	3871404	O-ring	2
7	NSS	Oil supply tube	1
8	3073976	Bulkhead adapter	1
9	3895626	Clamp	3
10	3871667	Adapter O-ring	2
11	3073977	Compression seal	1
12	3095626	Support clamp	1

		Quantity/Group	
		411C/D	411E
Engine Attg. Parts Group			
13	3080759	Rocker Adjusting Screw	6
14	3066257	Hex jam nut	6
15	3073952	Crosshead assembly	6
	3073975	Oil supply tube Assy (16 & 17)	1
16	3871404	O-ring	2
17	NSS	Oil supply tube	1
NI	3036230	Hex Hd Cap Screw	1
NI	3036460	Washer	1
NI	3821783	Screw, Washer	1
18	3406907	Bulkhead adapter	1
19	3406909	Compression Seal	1
20	68152	Support Clamp	3
21	3063164	Adapter O-ring, 6-6	2
22	3406919	Support clamp, Long	1
23	3161895	Dual Solenoid Harness 4 leads, 411C	1*
23a	3102503	Dual Solenoid Harness 2 leads, 411D/E	1*

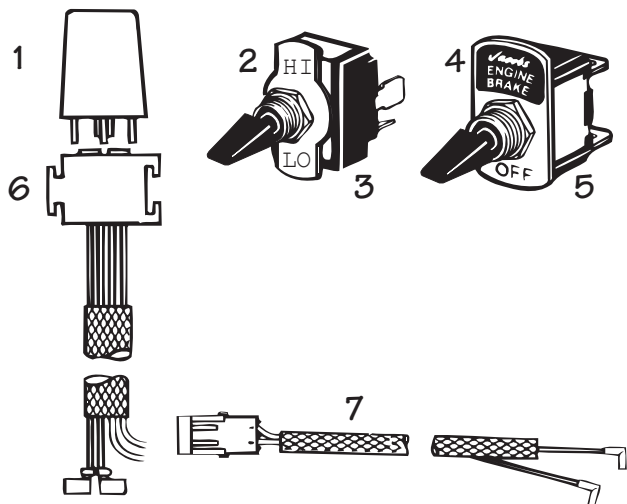
* Be aware that you have either No. 23 or 23a, **not** both.

		Quantity/Group	
		411	411C/D/E
Housing Attg. Parts Group			
24	3076055	Capscrew	16
Spacer Attg. Parts Group			
25	3900631	Hex bolt	18
26	3084583	Spacer (die cast)	1
27	3406906	Spacer (die cast)	0
28	3871472	Gasket	1
29	3895297	Int. oil supply hose assy.	1
30	3899642	Ext. oil supply hose assy.	1
31	3406905	Int. oil supply hose assy.	0
32	3406904	Ext. oil supply hose assy.	0
	4949709	Ext. oil supply hose assy. (411E Only)	1

NSS - Not Sold Separately

MODEL 411C/411D (ISM ENGINES)

Control Groups M11 Engines



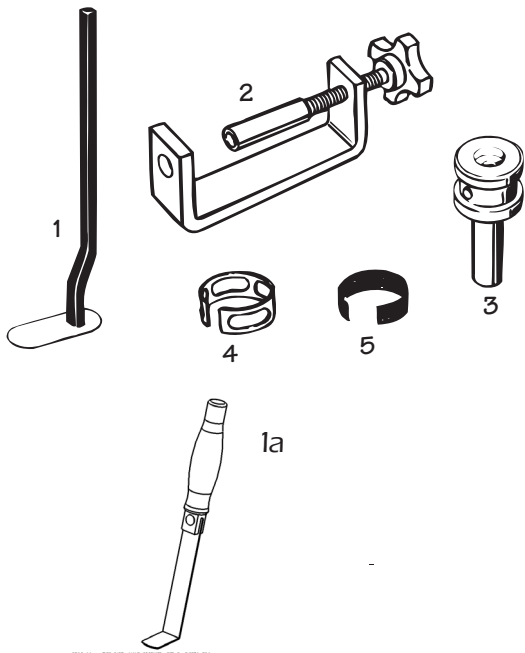
No.	P/N	Description	Quantity/Group
	3883216	Cab Control Group (CELECT™)	
1	3871486	Relay switch (CELECT)	1
2	3871499	Plate, HI/LO	1
3	3871498	Switch, HI/LO	1
4	3871244	Dash plate, ON/OFF	1
5	3871459	Toggle switch, ON/OFF	1
6	3871689	Relay base	4
NI	3871339	Cable tie	4
7	3080422	Engine control harness (CELECT™)	1

Control Groups ISM/ M11 Plus Engines

No.	P/N	Description	Quantity/Group	
			411	411C/D
	3871669	Cab Control Group (CELECT™ Plus)		
2	3871499	Plate, HI/LO	1	1
3	3871670	Switch, HI/LO	1	1
4	3871244	Dash plate, ON/OFF	1	1
5	3871648	Toggle switch, ON/OFF	1	1
NI	3871339	Cable tie	4	4
7	3095433	Wire harness	1	0

NOTE:
CONTROLS INSTALLED BY VEHICLE OEMS MAY BE DIFFER-
ENT THAN CTONROLS SUPPLIED BY CUMMINS.

Service Parts



No.	P/N	Description
1	3871428	Feeler gage, 0.015" (0.38 mm)
1a	3163172	Feeler gage, 0.027" (0.68 mm) (411E Only)
2	3871654	Slave piston removal tool
3	3871505	Slave piston - 0.060" shorter for clearance issues
4	3871655	Solenoid screen retainer
5	3871656	Solenoid screen
NI	3871580	Tune-up kit

NOTES



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