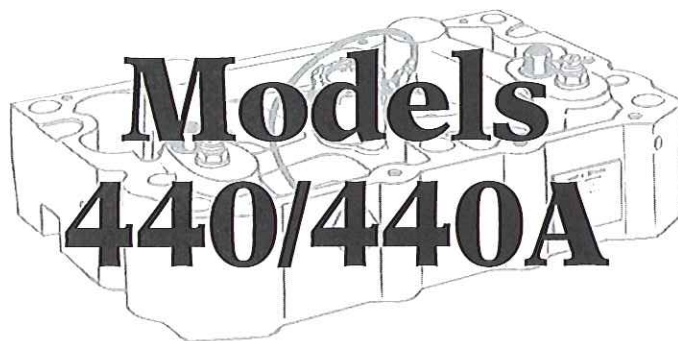




The Model 440 Jake Brake® engine retarder is designed and approved for use on Cummins™ 91 N14 STC engines, Cummins N14 CPL 1580 (N14-430E CELECT and N14-460E CELECT), and Cummins N14 CPL 1611 (N14-500E CELECT).

The Model 440A Jake Brake engine retarder is designed and approved for use on Cummins 91 N14 CELECT engines. Model 440A replaces the Model 445.

Information in this manual was current at the time of printing and is subject to change without notice or liability.

PARTS MANUAL

Models 440/440A Housing Assemblies

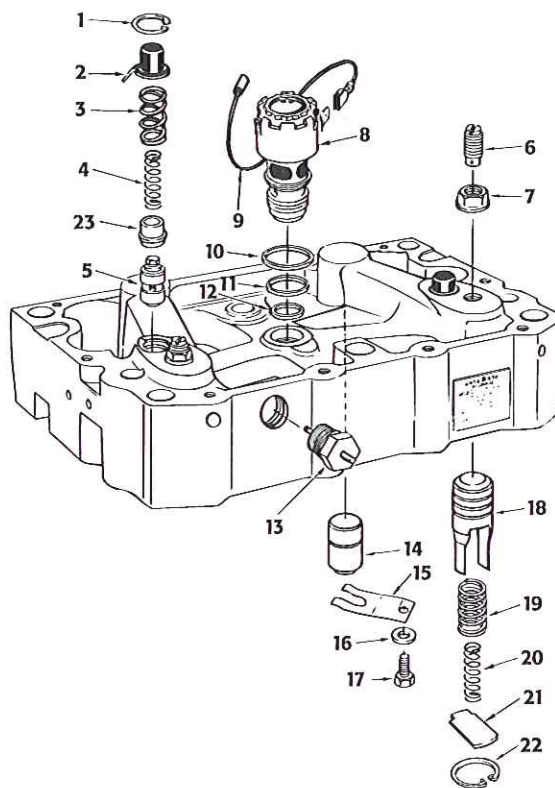
Engine Brake Model	Packaged Housing P/N	Description
440	017452	12 VDC
440	019383	24 VDC (Dual Lead)
440A	018654	12 VDC

Ill. No.	Part No.	Part Name	Quantity/ Housing
1	011284	Retaining ring, control valve	2
2	011252	Cover, control valve	2
3	011253	Outer spring, control valve	2
4	007500	Inner spring, control valve	2
5	011930	Spool assembly, control valve	2
6	017932	Auto-Lash* assembly* - 440	2
6	018014	Auto-Lash assembly* - 440A	2
7	009353	Hex nut*	2
8	016440	Solenoid valve, 12V	1
8	016442	Solenoid valve, 24V	1†
9	017368	Harness, solenoid	1
10	001081	Seal ring, upper	1
11	001082	Seal ring, center	1
12	001083	Seal ring, lower	1
13	017366	Connector, electrical**	1
13	017367	Connector, electrical (D/L)	1
14	018025	Master piston (0.655" dia.)	2
15	017412	Flat spring	2
16	001030	Plain washer	2
17	001492	Hex head cap screw	2
18	017409	Slave piston	2
19	016845	Outer spring, slave piston	2
20	016844	Inner spring, slave piston	2
21	017221	Retainer, slave piston spring	2
22	017507	Retaining ring, slave piston	2
23	011251	Collar, control valve	2

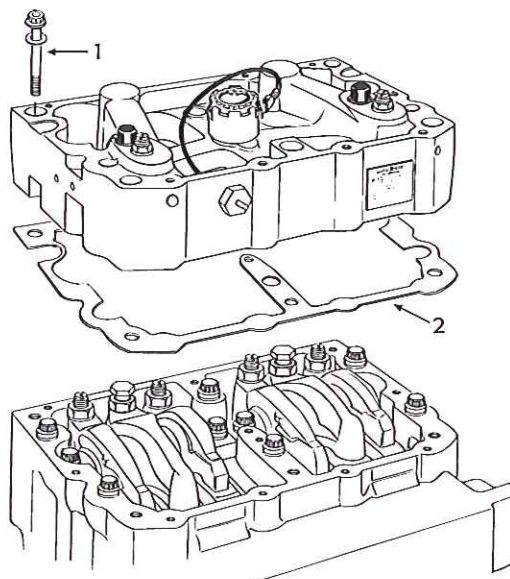
* Auto-Lash assembly includes P/N 009353 nut.

† Quantity of 2 in dual-lead housing application.

** P/N 017366 has O-ring. Use Parker No. 3-908 or equivalent for replacement.



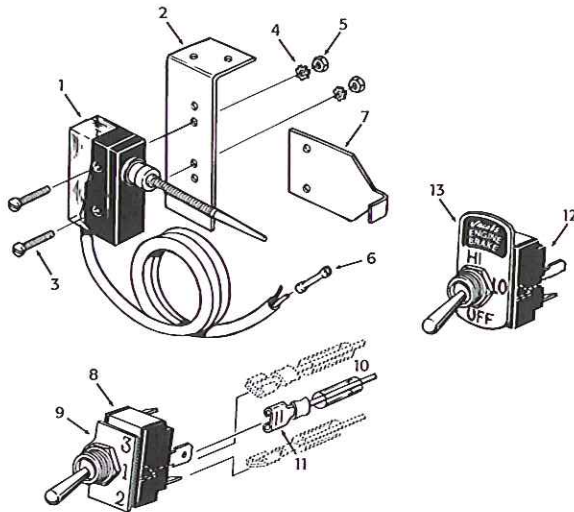
Ill. No.	Part No.	Part Name	Quantity/ Housing
	017445	Mounting Screw Group	1
1	017958	• Screw and washer assy.	6
2	016846	Brake housing gasket	1



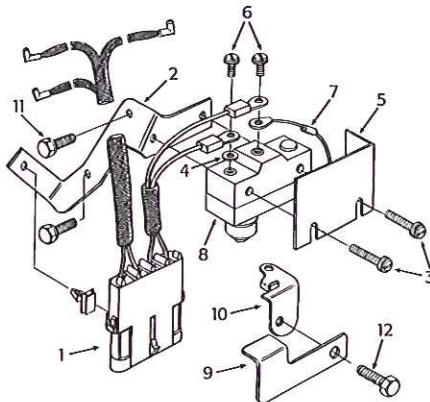
Control Groups - STC Engines

NOTE:

CONTROLS INSTALLED BY VEHICLE OEMS MAY BE DIFFERENT THAN CONTROLS SUPPLIED BY JACOBS.



* Optional item not included in group.



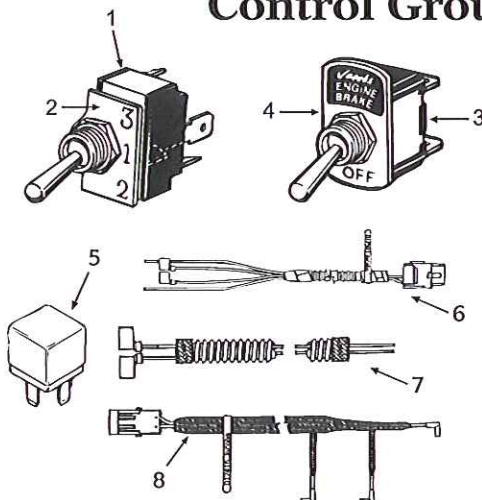
017738 Cab Control Group

Ill. No.	Part No.	Part Name	Quantity/Group
	012261	Clutch Switch Group	1
1	012246	• Clutch switch	1
2	012269	• Switch mount bracket	1
3	005377	• Pan head screw	2
4	005378	• Lockwasher	2
5	003306	• Hex nut	2
6	013078	• Butt splice	2
7	012262	• Overtravel bracket*	1
NI	013674	• Instruction sheet	1
	002970	Dash Switch Group	1
8	002957	• Toggle switch	1
9	002959	• Dash plate	1
10	003707	Shrink tube	5
11	003278	Receptacle	5
12	001304	Dash switch	1
13	001305	Plate, dash switch	1
NI	017504	Harness	1
NI	017742	Wiring diagram	1
NI	006833	Cable tie	12
NI	015758	Wire	1

017737 Engine Control Group

	017533	Switch Assembly, Mounted	1
1	018103	• Wire harness	1
2	017686	• Switch bracket	1
3	017152	• Screw #6-32, 1-1/8 lg.	2
4	001559	• Lockwasher	4
5	017153	• Switch cover	1
6	001558	• Screw #6-32, 1/4 lg.	2
7	001534	• Diode assembly	1
8	018188	• Switch	1
9	017247	Lever	1
10	017248	Clamp	1
11	017573	Screw and washer assembly	2
12	001492	Capscrew	1
NI	017661	Dual-lead ground wire	2

Control Groups - CELECT* Engines



017729 Cab Control Group

Ill. No.	Part No.	Part Name	Quantity/Group
1	002957	Toggle switch	1
2	002959	Dash plate	1
3	016264	Dash switch	1
5	016933	Relay switch	1
6	017593	Relay base	1
7	018187	Eng. to selector switch harness	1
NI	006833	Cable tie	8
NI	018114	Wiring diagram	1

Engine Control

8	017416	Harness	1
NI	019387	Harness - ground (D/L only)	1

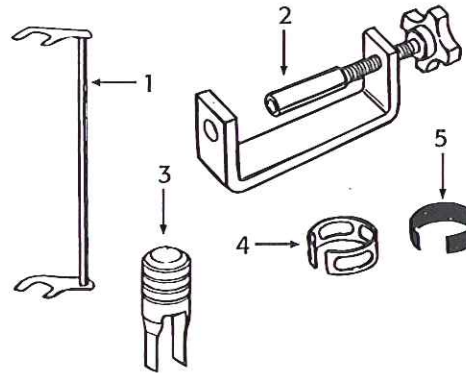
* CELECT is a trademark of Cummins Engine Company.

NI Not Illustrated

Service Parts

III. No.	Part No.	Part Name
1	017685	Feeler gauge 0.023" (0.584 mm)
2	017397	Slave piston removal tool
3	017728	Short slave piston*
4	001283	Solenoid screen retainer
5	001282	Solenoid screen
NI	017408	Master piston (0.812" dia.) -- 445

* Slave piston 1/16" shorter than standard. For engines with exhaust valve seats that have been grounded.



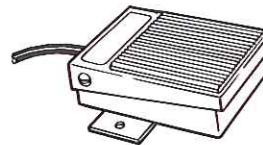
Control System Options (STC Only)

015644 Low Engine Speed Retarder Cut-off Group

Part No.	Part Name	Quantity/ Group
015645	Control module	1
016175	Wiring harness	1
016177	Wiring harness	1



012660 Foot Switch Group



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