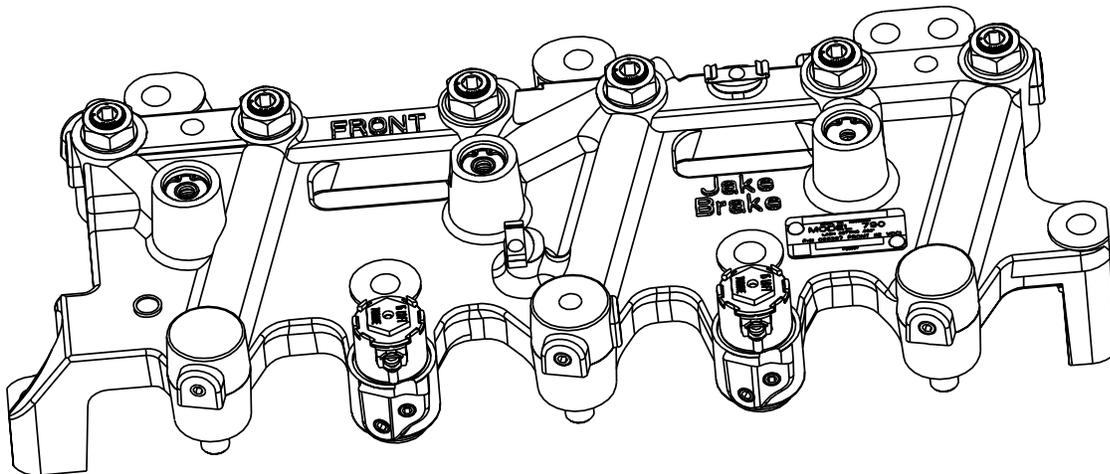




Jacobs Vehicle Systems™

Jacobs Engine Brake®

790/795/797 Series



PARTS MANUAL

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

Refer to the Application guide, P/N 24770 for specific application information. Also refer to the Installation Manual, P/N 29901 and the Engine Manual for specific installation instructions.

790/795/797 SERIES KITS

Model No.	P/N	Description
790	29240	Engine Brake Kit, 12 VDC
790	29020	Engine Brake Kit, 24 VDC
790A	29123	Engine Brake Kit, 12 VDC
790A	29232	Engine Brake Kit, 24 VDC
790B	29302	Engine Brake Kit, 12 VDC
790B	29304	Engine Brake Kit, 24 VDC
790C	29321	Engine Brake Kit, 12 VDC
790C	29323	Engine Brake Kit, 24 VDC
790D	31222	Engine Brake Kit, 12 VDC
790D	31224	Engine Brake Kit, 24 VDC
795	30505	Engine Brake Kit, 12 VDC
795	30506	Engine Brake Kit, 24 VDC
797	31361	Engine Brake Kit, 12 VDC
797	31860	Engine Brake Kit, 24 VDC
797A	32576	Engine Brake Kit, 12 VDC
797A	32578	Engine Brake Kit, 24 VDC
797B	32883	Engine Brake Kit, 12 VDC

790/795/797 SERIES KITS

Model No.	P/N	Description
790	28367	Front housing Assembly, 12 VDC, S/L
790	28368	Rear housing Assembly, 12 VDC, S/L
790	29017	Front housing Assembly, 24 VDC, S/L
790	29018	Rear housing Assembly, 24 VDC, S/L
790A	29029	Front housing Assembly, 12 VDC, S/L
790A	29030	Rear housing Assembly, 12 VDC, S/L
790A	29124	Front housing Assembly, 24 VDC, S/L
790A	29125	Rear housing Assembly, 24 VDC, S/L
790B	29128	Front housing Assembly, 12 VDC, S/L
790B	29129	Rear housing Assembly, 12 VDC, S/L
790B	29130	Front housing Assembly, 24 VDC, S/L
790B	29131	Rear housing Assembly, 24 VDC, S/L
790C	29148	Front housing Assembly, 12 VDC, S/L
790C	29149	Rear housing Assembly, 12 VDC, S/L
790C	29150	Front housing Assembly, 24 VDC, S/L
790C	29151	Rear housing Assembly, 24 VDC, S/L
790D	1031226	Front housing Assembly, 12 VDC, S/L
790D	1031227	Rear housing Assembly, 12 VDC, S/L
790D	1031228	Front housing Assembly, 24 VDC, S/L
790D	1031229	Rear housing Assembly, 24 VDC, S/L
795	29902	Front housing Assembly, 12 VDC, S/L
795	29903	Rear housing Assembly, 12 VDC, S/L
795	29904	Front housing Assembly, 24 VDC, S/L
795	29905	Rear housing Assembly, 24 VDC, S/L
797	1031322	Front housing Assembly, 12 VDC, S/L
797	1031323	Rear housing Assembly, 12 VDC, S/L
797	1031765	Front housing Assembly, 24 VDC, S/L
797	1031766	Rear housing Assembly, 24 VDC, S/L
797A	1032574	Front housing Assembly, 12VDC, S/L
797A	1032587	Rear housing Assembly, 12VDC, S/L
797A	1032579	Front housing Assembly, 24VDC, S/L
797A	1032589	Rear housing Assembly, 24VDC, S/L
797B	1032655	Front housing Assembly, 12VDC, D/L
797B	1032656	Rear housing Assembly, 12VDC, D/L

HOUSING ASSEMBLY 790/795/797

Illus. No.	Part Name	790	795	797	797B	Qty per housing
1	Solenoid	1024612(12VDC) -or- 1024619(24VDC)			1034737	2*
2	Seal, Solenoid Upper		20229			2*
3	Seal, Solenoid Middle		1082			2*
4	Seal, Solenoid Lower	not required		not required		2*/***
5	Master Piston	26932		31282		3
6	Pushrod - Master Piston		28791			3
7	Spring, Master Piston		28768			3
8	Washer- MP Retainer	29944		31854		3
9	Ring, Retainer	26555		31331**		3
10	Nut, Hex	19987		29908		6
11	Adjusting Screw	(See 790 J-Lashes)	29864		31270	6
12	Slave Piston	26142		31324		6
13	Slave Piston Spring Group	32160		32127		3
	Bridge, Slave Piston	n/a		n/a		-
	Spring, Inner Slave Piston	n/a		n/a		-
	Spring, Outer Slave Piston	n/a		n/a		-
	Shoulder Bolt, Slave Piston	n/a		n/a		-
17	Ring, Retainer		12991			3
18	Washer		16505			3
19	Spring, Inner Control Valve		18179			3
20	Spring, Outer Control Valve		10843			3
21	Control Valve Assembly		11930			3
22	Pipe Plug		28317			-
23	Drive Screw		17303			-
24	Clip, Wire Harness		29127		n/a	-

Notes: **Bold** text depicts parts that are common to all brake models listed.

*For 790/795/797A, front housing has two solenoid and the rear housing has one;

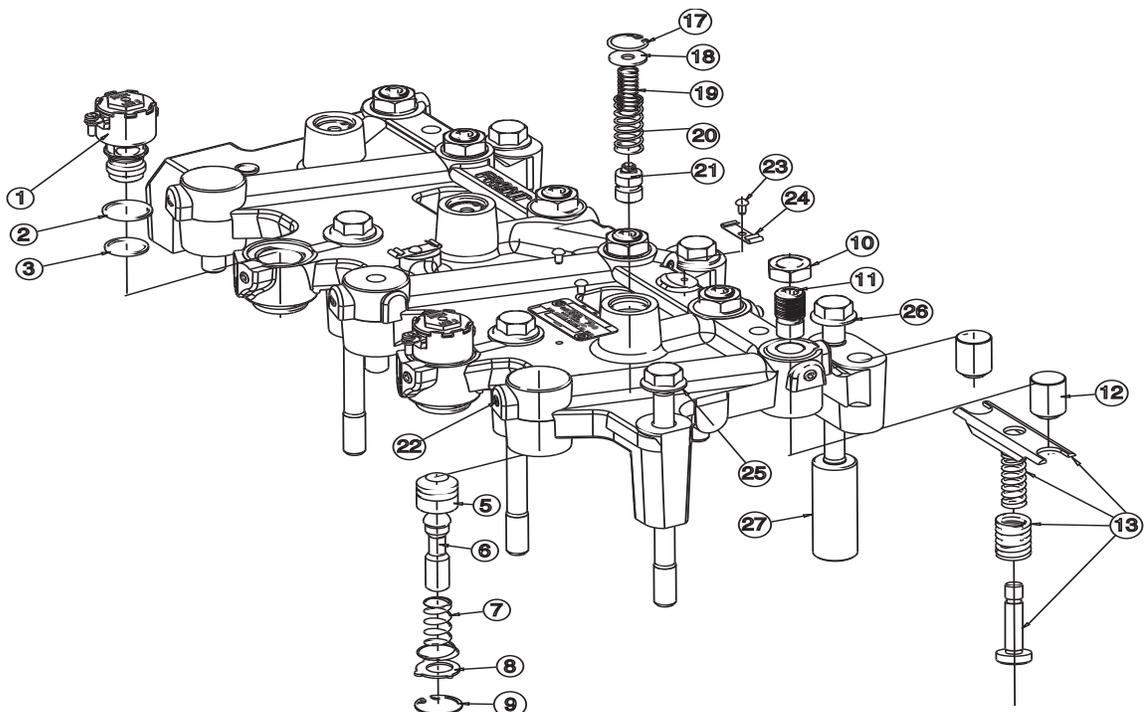
For 797/797B, both front and rear housings have only one solenoid.

**Requires assembly tool part #J-45976

***Reference Technical Service Letter 02TS-17

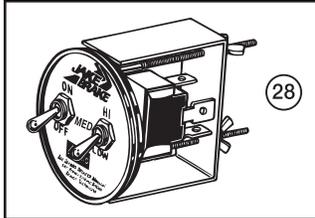
790 J-lash™ Assemblies & Groups

Illus. No.	Part Name	790	790A	790B&D	790C	Qty per housing
11	J-lash™ Assembly	28341	29300	29317	29310	6
	J-lash™ Assy Group (12 pack)	29019	29414	29415	29416	-



ATTACHING PARTS

Illus. No.	P/N	Part Name	Quantity per kit
NI	29133	Attaching Parts Group	1
25	28346	CapScrew, M12X1.75X170	6
26	29132	CapScrew, M12X1.75X140	6
27	29118	Spacer Tube	6



CAB CONTROL GROUP

Illus. No.	P/N	Part Name	Quantity per kit
NI	20220	Cab Control Group	1
NI	20244	Harness, 6ft	1
28	20035	Switch	1

SERVICE PARTS 790/795/797

P/N	Part Name
17671	Feeler gauge 0.026 IN. (0.660 mm)
16590	Screw, Rocker Adjusting
29013	Tune up kit - 790/795 Series
29589	Wire Clip Kit - Model 790
30503	Solid Screw Group (12 pack), 795
32128	Solid Screw Group (12 pack), 797
32146	Tune up kit - 797 Series
J-45976	Master Piston Assembly Tool, 797
29901	Installation Manual
32150	Feeler gauge 0.020 IN. (0.508mm)