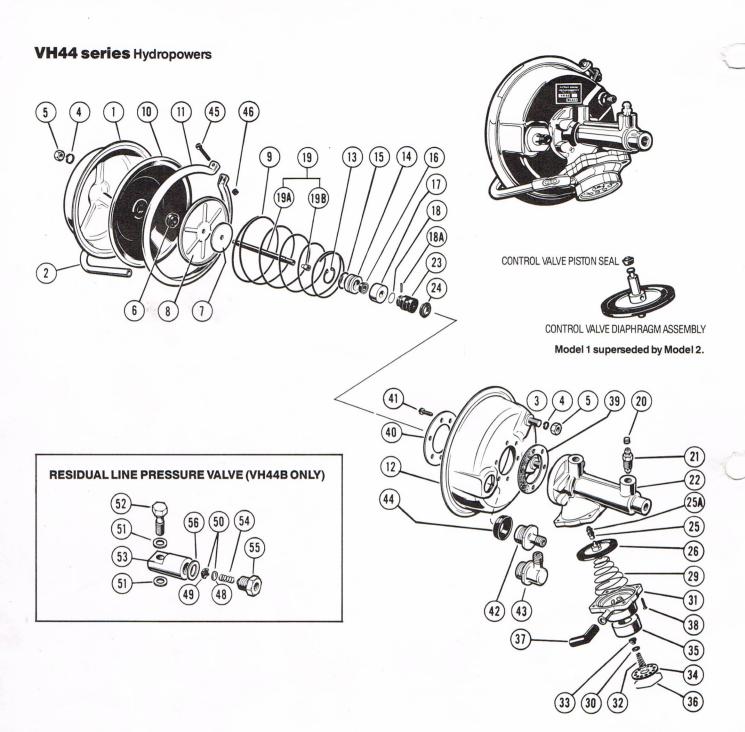
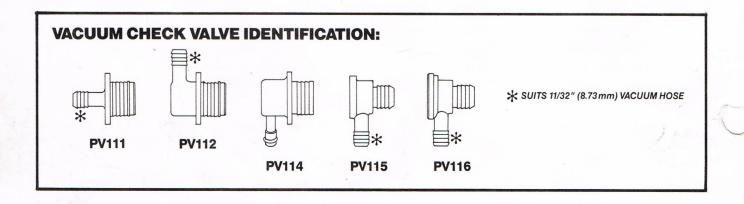
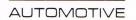
HYDROPOWER ASSEMBLIES

COMMERCIAL BRAKE EQUIPMENT







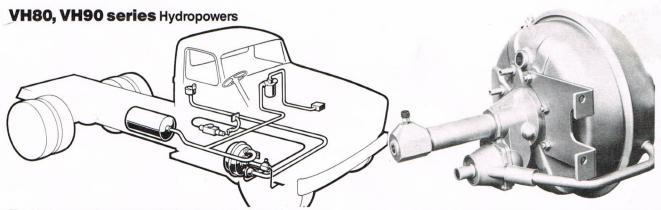


COMMERCIAL BRAKE EQUIPMENT

IDENTIFICATION GUIDE to car type hydropowers

Assy. No.	Power Cham. Dia.	Diaph.	Slave Cyl. Dia.	Control Valve Dia.	Hyd. Dis. Cu. In.	Crack Press. psi.	Input psi.	Output psi.	Mounting Detail Remarks		Car Coy.	O.E. Part No.	Repair Kits - Major Minor	New Units avail.	Reman. Units avail.
• VH44F N							SUPI	SUPERSEDED BY VH44 FW							
• VH44F W	71/2"	Large	3/4"	5/16"	.97	45	450	950	RH side & Same as VH44F Centre except shell & clamping ring in different position.		AMI	R61-01-14	VH44-90 VH44-88	×	×
● VH44F A	71/2"	Large	3/4"	5/16"	.97	45	450	950	RH side & Centre	Same as VH44F except rear shell rotated 180°	IHC		VH44-90 VH44-88	×	×
• VH44G	71/2"	Small	7/8″	5/16"	1.32	45	450	710	LH side & Centre	90° check valve.	Ford		VH44-95 VH44-88	×	×
• VH44G C	71/2"	Small	7/8″	5/16"	1.32	45	450	710	RH side & Centre	90° check valve.	Ford		VH44-95 VH44-88	×	×
VH44J	71/2"	Large	5/8″	5/16"	.68	40	560	1270	LH side & Centre	90° check valve.	Chrysler	2791487	VH44-72 VH44-73	×	×
• VH44J A	71/2"	Large	5/8"	5/16"	.68	40	560	1270	RH side & Centre	90° check valve.	BMC	AYG5244	VH44-72 VH44-73		
• VH44N	71/2"	Small	3/4"	5/16"	.97	45	450	820	LH side	Same as VH44 except Nasco Name Plate.	GMH	7427595	VH44-89 VH44-88	×	
• VH44 P	71/2"	Small	3/4"	5/16"	.97	45	450	820	LH side & Centre	Straight check valve.	BMC AMI	T006-01-03	VH44-89 VH44-88	×	×
• VH44W	71/2"	Small	3/4"	5/16"	.97	45	450	820	LH side	H side Same as VH44 except chrome plated shells and anodised slave cylinder.			VH44-89 VH44-88	×	

● NOT AVAILABLE - INCLUDED FOR IDENTIFICATION ONLY



The Hydropower is a vacuum-hydraulic unit designed for power braking. The unit utilises vacuum from the manifold of a petrol engine or a vacuum exhauster (as fitted to a diesel engine) together with atmospheric pressure, for its operation.

The Hydropower adds to the pressure created physically in the

master cylinder and delivers this combined pressure to the wheel cylinders.
The unit is self contained, having no external rods or levers

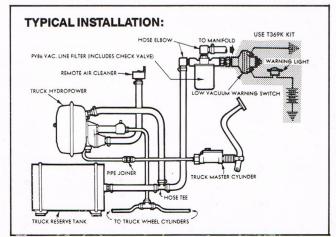
exposed to dirt and moisture.

The Hydropower can be installed in any convenient position on a vehicle having a vacuum supply and equipped with hydraulic brakes. (Studs are provided on the unit for either right or left hand mounting.) It does not take over the application of the brakes from the driver, but assists him by contributing a considerable brake applying effort, under his full control, and in proportion to the

pressure exerted on the brake pedal.

Construction of the Hydropower is such that in the event of a complete loss of vacuum the brakes will function as in a conventional brake system.

The Hydropower does not interfere with the normal operation of the brake system.



CONTINUED ON NEXT PAGE



HYDROPOWER ASSEMBLIES

COMMERCIAL BRAKE EQUIPMENT



IDENTIFICATION GUIDE to car type hydropowers

Assy. No.	Power Cham. Dia.	Diaph.	Slave Cyl. Dia.	Control Valve Dia.	Hyd. Dis. Cu. In.	Crack Press. psi.	Input psi.	Output psi.	Mounting Detail	Remarks	Car Coy.	O.E. Part No.	Repair Kits - Major Minor	New Units avail.	Reman. Units avail.
VH40	9″	-	5/8"	5/16"	.68	35	450	1470	LH side & Centre	90° check valve	_	-	VH40-73 VH40-74	×	×
● VH40A	9"	_	5/8"	3/8"	.68	20	315	1375	LH side &	LH side & 90° check valve F		ARC7DA2005A		×	×
VH40A J	9″	-	5/8"	3/8"	.68	20	315	1375	RH side & Centre	H side & Same as VH40A L F		ARC8DA2005B	VH40-75 VH40-80	×	×
VH40A L	9"	-	5/8"	3/8"	.68	20	315	1375	RH side & Centre	90° check valve Double poppet	Ford IHC	ARC6DA2005A 884228R91	VH40-75 VH40-80	×	×
● VH40A M	9"	-	5/8"	3/8"	.68	50	345	1405	RH side & Centre	Same as VH40A L Ford except different control spring		ARC8DA2005A	VH40-80		
• VH40A N	9″	- ,	5/8"	3/8"	.68	75	370	1430	RH side & Centre	Same as VH40 A J except different control spring			VH40A J	×	
● VH40A P	9″	-	5/8″	3/8"	.68	75	370	1430	RH side & Centre	Same as VH40A L except different control spring			VH40-75 VH40-80	×	
VH40B	9"	-	3/4"	5/16"	.97	35	450	1130	LH side & Centre	90° check valve Chrysl		3426219	VH40-130 VH40-131	×	×
VH40D	9"	-	7/8″	7/16"	1.32	35	235	840	RH side & Centre	Straight check valve	IHC	885279R91	VH40-78 VH40-79	×	×
● VH40D C	9"	-	7/8″	7/16"	1.32	35	235	840		Same as VH40D except has brackets	BMC	AYK5732	VH40-78 VH40-79		
VH40E L	9"	-	9/16"	3/8"	.50	18	325	1825	LH side & Centre	Double poppet	BMC	AYH5344	VH40-121 VH40-122	×	×
● VH40F	9″	-	7/8"	5/16"	1.32				Contro		Chrysler IHC	3428017 3206622R91	VIIIOILL		
● VH40F A	9"	7	7/8"	5/16"	1.32				- , , ~	Same as VH40F except rear shell rotated 180°	IHC	3206622R91			
● VH40J	9"	-	5/8"	5/16"	.68	25	600	1650	RH side & Centre	Same as VH44J except pressing of VH40L and VH44J control. Double poppet.					
VH40L	9"	-	5/8″	5/16"	.68	20	450	1470	LH side & Centre	Straight check valve c/w adaptors M120-4 Double poppet.	GMH	7433728	VH40-85 VH44-73	×	×
VH44	71/2"	Small	3/4"	5/16"	.97	35	450	820	LH side				VH44-89 VH44-88	×	×
VH44B	71/2"	Large	3/4"	5/16"	.97	35	450	950	RH side & Centre	GS380 Line valve Straight check valve			VH44-90 VH44-88	×	×
VH44B S	71/2"	Large	3/4"	5/16"	.97	35	450	950		Same as VH44B except BMC name badge.		AYB5108	VH44-90 VH44-88		
● VH44B U	71/2"	Large	3/4"	5/16"	.97	45	450	950	RH side & Centre	Same as VH44B except 90° check valve.	BMC		VH44-90 VH44-88		
● VH44 C VH44D	71/2"	Large	7/8"	5/16"	1.32	45	SUPI 450		D BY VH44 P I LH side &	Straight check	Chrsyler		VH44-91	×	×
VH44D V	71/2"	Large		5/16"		45	450	780	Centre	valve Same as VH44D	Chrysler	2288610	VH44-88 VH44-91		
VI144D V	172	Large	770	3/10	1.52	40	450	760	Centre	except transfer tube in different position and rear mounting stud.	Gillyslei	2790056	VH44-91 VH44-88	×	×
VH44E	71/2"	Large	5/8"	3/8"	.68	40	315	1080	LH side & Centre				VH44-93 VH44-94	×	×
VH44F	71/2"	Large	3/4"	5/16"	.97	45	450	950	RH side & Centre	Straight check valve.	Chrysler	883726R91	VH44-90 VH44-88	×	×
● VH44F U	71/2"	Large	3/4"	5/16"	.97	45	450	950	RH side & Centre	Same as VH44F except 90° check valve.	Freighter Chrysler	2598673	VH44-90 VH44 -8 8	×	×



ALITOMOTIVE

COMMERCIAL BRAKE EQUIPMENT

VH44 series Hydropowers

SERVICED PARTS:

EF. No.	DESCRIPTION	VH44B	VH44D	VH44DV	VH44E	VH44F	VH44FW	VH44J	QTY.
1	SHELL ASSEMBLY REAR	_	—	_	T _	_	T _	_	1
2	PIPE ELBOW			_	_	_	_		_
3	MOUNTING STUD		_		_		_	_	_
		COMM.	COMM.	COMM.	COMM.	COMM.	COMM.	COMM.	3
4	LOCKWASHER 5/16" I.D.						COMM.		
5	NUT HEX. 5/16" UNF.	COMM.	COMM.	COMM.	COMM.	COMM.		COMM.	3
• 6	DIAPHRAGM COLLAR	VH44-29	VH44-29	VH44-29	VH44-29	VH44-29	VH44-29	VH44-29	1
7	STIFFENING WASHER	VH44-27	VH44-27	VH44-27	VH44-27	VH44-27	VH44-27	VH44-27	1
8	DIAPHRAGM PLATE	VH44-28	VH44-28	VH44-28	VH44-28	VH44-28	VH44-28	VH44-28	1
9	SPRING	VH44-6	VH44-6	VH44-6	VH44-6	VH44-6	VH44-6	VH44-6	1
• 10	DIAPHRAGM	VH44-30	VH44-30	VH44-30	VH44-38	VH44-38	VH44-30	VH44-38	1
11	CLAMPING RING	111100		_	-	_	_	_=	1
12	SHELL ASSEMBLY FRONT		_						1
		010 0007	SIC-0.937	SIC-0.937	SIC-0.937	SIC-0.937	SIC-0.937	SIC-0.937	- 1
13	CIRCLIP	SIC-0.937							1
14	BUSH	VH44-23	VH44-23	VH44-23	VH44-23	VH44-23	VH44-23	VH44-23	1
•†15	"O" RING	OR141014	OR141014	OR141014	OR141014	OR141014	OR141014	OR141014	1
•†16	ROD PUSH SEAL	PH2059	PH2059	PH2059	PH2059	PH2059	PH2059	PH2059	1
17	SPACING COLLAR	VH44-24	VH44-24	VH44-24	VH44-24	VH44-24	VH44-24	VH44-24	1
•†18	SNAP RING	VH44-22	VH44-22	VH44-22	VH44-22	VH44-22	VH44-22	VH44-22	1
	VALVE PLUNGER PIN	VH44-21	VH44-21	VH44-21	VH44-21	VH44-21	VH44-21	VH44-21	1
• 19	PUSH ROD ASSEMBLY	VH44-16	VH44-16	VH44-16	VH40-8	VH44-16	VH44-16	VH40-8	1
					VH40-7	VH44-10	VH44-13	VH40-7	4
	PUSH ROD	VH44-13	VH44-13	VH43-13					1
•†19b	PUSH ROD SEAL ASSEMBLY	VH44-15	VH44-15	VH44-15	VH44-15	VH44-15	VH44-15	VH44-15	1
	(incl. VH44-14)	207	D07	207	D07	207	D07	D07	
20	BLEEDER SCREW COVER	P27	P27	P27	P27	P27	P27	P27	1
21	BLEEDER SCREW	P4433	P4433	P4433	P4433	P4433	P4433	P4433	1
22	MAIN BODY	VH44-1	-	_	VH40-14	VH44-1	VH44-1	VH44-74	1
23	SLAVE CYLINDER PISTON	VH44-20	VH44-56	VH44-56	VH40-9	VH44-20	VH44-20	VH40-9	1
•†24	SLAVE CYLINDER PISTON SEAL	P4664	PH2048	PH2048	P4422	P4664	P4664	P4422	1
• 25	CONTROL VALVE PISTON ASSEMBLY	VH24-56	VH24-56	VH24-56	VH40-137	VH24-56	VH24-56	VH24-56	1
		V1124-50	V1124-30	V1124-30	V1140-107	V1124-30	V1124 00	V1124 00	2
25a	CONTROL VALVE PISTON SEAL	-	7/1140 04	7/1/40 04	V/1140 C4	1///40 04	7/140 04	V/1140 00	1
• 26	CONTROL VALVE DIAPHRAGM	VH40-61	VH40-61	VH40-61	VH40-61	VH40-61	VH40-61	VH40-29	
26a	CONTROL VALVE PUSH ROD	_	_	_	_	-	_	-	1
27	DIAPHRAGM PLATE	_		_	_	_	_	-	1
28	PRESSURE PLATE	_	-	_	_	_	_	_	1
• 29	VALVE RETURN SPRING	-	_	_	_	_	_	-	1
30	WASHER	VH44-32	VH44-32	VH44-32	VH44-32	VH44-32	VH44-32	_	1
31	VALVE BODY	VH44-4	VH44-4	VH44-4	VH44-4	VH44-4	VH44-4	_	1
•†32	POPPET RETURN SPRING	VH44-8	VH44-8	VH44-8	VH44-8	VH44-8	VH44-8	VH40-32	1
								V1140-02	4
•†33	VALVE PAD	VH44-31	VH44-31	VH44-31	VH44-31	VH44-31	VH44-31	V/1140.05	!
33a		-	_	_	-	_	_	VH40-25	1
33b	POPPET RETAINER	-	-	_	_	_	_	VH40-26	1
34	COVER PLATE	VH44-34	VH44-34	VH44-34	VH44-34	VH44-34	VH44-34	VH44-34	1
• 35	FILTER	VH44-33	VH44-33	VH44-33	VH44-33	VH44-33	VH40-36	VH40-36	1
36	SNAP RING	VH44-35	VH44-35	VH44-35	VH44-35	VH44-35	VH44-35	VH44-35	1
• 37	CONNECTING ELBOW	VH44-36	VH44-36	VH44-36	VH44-36	VH44-36	VH44-36	VH44-36	1
38	SCREW (THREAD FORMING)	G13600A	G13600A	G13600A	G13600A	G13600A	G13600A	G13600A	1
2500		The second second second	No. of the last of	Contract to the second					4
• 39	GASKET	VH44-25	VH44-25	VH44-25	VH44-25	VH44-25	VH44-25	VH44-25	1
40	SUPPORT WASHER	VH44-26	VH44-26	VH44-26	VH44-26	VH44-26	VH44-26	VH44-26	1
41	SCREW (THREAD FORMING)	G13500D	G13500D	G13500D	G13500D	G13500D	G13500D	G13500D	6
42	CHECK VALVE ASSEMBLY (Straight)	PV111	PV111	PV111	_	PV111	PV111		1
43	CHECK VALVE ASSEMBLY (Angled)	_	_	_	PV112	_	_	PV112	1
• 44	GROMMET (August)	PV111-7	PV111-7	PV111-7	PV111-7	PV111-7	PV111-7	PV111-7	1 1
• 45	BOLT 1/4" B.S.W. 1-3/4" LONG	COMM.	COMM.	COMM.	COMM.	COMM.	COMM.	сомм.	1
	A CONTRACTOR OF THE PROPERTY O							COMM.	1
• 46	NUT 1/4 " B.S.W.	COMM.	COMM.	COMM.	COMM.	COMM.	COMM.	COIVIIVI.	
47	RESIDUAL LINE VALVE	GS380		_	_	_	_	_	1
48	VALVE BODY (NOT SERVICED)	- 1		_	_	-	_		1
49	INSERT	\ -	_	_	_	-	_		1
•†50	VALVE ASSEMBLY	PS200	_	-	_	_	_	_	1
51	COPPER GASKET	P124	_	_	_	_	_	_	1
52	BANJO BOLT	GS380-3		_	_	_	_	_	1
				_					4
53	BODY	00000 4	_	_	_	_	_	-	
54	SPRING	GS380-4	-	_	_	_	_	-	1
55	ADAPTOR	_	_	_	_	-	_	_	1
56	GASKET	P603	_	_	_	-	-	-	1
	MAJOR REPAIR KIT	VH44-90	VH44-91	VH44-91	VH44-93	VH44-90	VH44-90	VH44-72	1
	MINOR REPAIR KIT	VH44-88	VH44-92	VH44-92	VH44-94	VH44-88	VH44-88	VH44-73	1

REPAIR KITS CONVERT ALL MODEL 1 UNITS TO MODEL 2.

• MAJOR REPAIR KIT †MINOR REPAIR KIT The following models have only REPAIR KITS available:

VH44, VH44N	VH44-89 (Major)	VH44-88 (N	Minor)
VH44BS	VH44-90 (Major)	VH44-88 (N	/linor)
VH44FU	_` ` `	VH44-88 (N	Minor)
VH44G, VH44GC	VH44-95 (Major)	VH44-92 (N	/linor)
VH44P	_` '	VH44-88 (N	
VH44W	VH44-89 (Major)	VH44-88 (N	Minor)