INTRODUCTION

Welcome to Midwest Motorcycle Supply's Engine Reference Guide.

In an effort to make servicing your V-Twin® engine easier, the staff at Midwest Motorcycle Supply have put together what we believe to be the most comprehensive list of replacement parts for the heart of your motorcycle. We hope that this reference guide serves as more than just a book, we envision this guide as more of a tool that can be used for years to come. Starting with the Evolution® family of engines this reference guide, through time, will expand to include Shovelhead®, Panhead® & other older Vintage V-Twin® engines.

We would also like to take this time to thank all supporters of Midwest® & Ultima® products. It is because of you that we have grown to be one of the world's leading providers of high quality aftermarket motorcycle parts & accessories. Thank You & Ride Safe!!!

Every attempt has been made to insure proper fitment of our parts for the applications listed in this guide. It is the end users responsibility to exercise good judgement in the part selection, installation & maintenance of their motor when installing parts referred to in this reference guide. Midwest MC Supply has no control over the judgement of others & assumes no responsibility or liability of any nature for the failure of others to use good judgement.

Midwest Motorcycle Supply, Est. in 1971, is one of the world's leading manufacturers and distributors for aftermarket parts and accessories for American made motorcycles. As a manufacturer we have the capability to produce many of the products you are currently purchasing from other distributors . . . at a fraction of the cost! See examples of our product line at **www.ultimaproducts.com** We are committed to keeping up to date on industry research and technical data, as well as legislation and sales demographics & statistics for the benefit of our Dealers.

Ultima Company LLC is not a representative of any other motorcycle engine manufacturer and the parts we sell are not necessarily recommended by any other motorcycle engine manufacturer.

All words used in this catalog denoting any motorcycle engine manufacturer, engine models or part numbers are intended for use as reference only.

Although our replacement engines and engine parts are not original factory equipment for some manufacturers, our intention is to provide an exceptional quality replacement part that will outperform the original equipment of many OEM manufacturers.

Harley-Davidson® Parts: Harley® and Harley-Davidson® and other model names of Harley® motorcycles are used as a reference only. Some H-D® part numbers are also used as reference only. We are not an authorized Harley® dealer and in no way do we have, or intend to imply any kind of business relationship with Harley-Davidson Motor Company®. Our intention is to provide products that can be used on a Harley-Davidson® motorcycle.

Names and words that are registered trademarks of Harley-Davidson® Inc. Milwaukee, WI, such as Evolution®, Harley-Davidson®, Harley®, H-D®, HD®, and Softail® are not intended to imply that they are Harley-Davidson® original equipment by their use in connection with Harley-Davidson® factory part numbers.

All other trademarks, registered trademarks and brand names used in this catalog are the property of their respective holders.

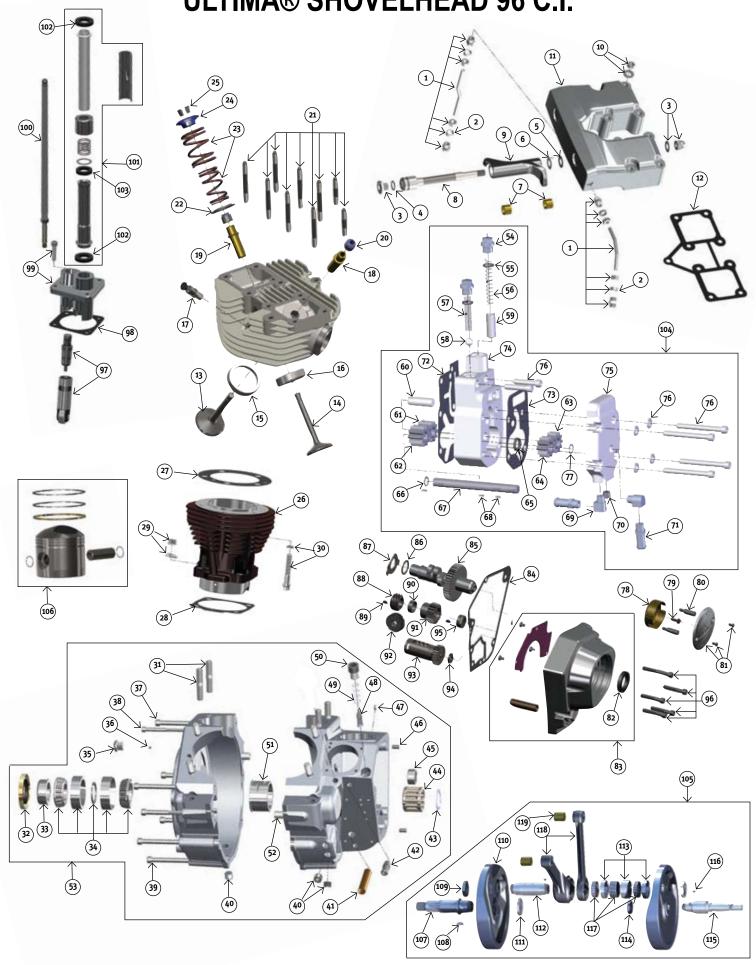
Ultima is not a representative of any other motor or motorcycle manufacturer. All words used in this "Midwest Reference Guide" are intended for use as reference only. Although our motor replacement parts are not original equipment for some motor manufacturers, our intention is to provide an exceptional quality replacement part that meets, exceeds & outperforms the original equipment of many manufacturers. Names & words used in this "Midwest Reference Guide" that are registered trademarks of S&S® Cycle, Merch Performance® & Rev Tech® are not intended to imply that they are S&S® Cycle, Merch Performance® or Rev Tech® original equipment.

WARNING

Serious injury, death and property damage can result from the improper use, control, alteration, or maintenance of motorcycles. The dealer and dealers customers must exercise good judgement in the use, control, alteration, part selection and installation, and maintenance of motorcycles. Ultima® has no control over the judgement of others and assumes no responsibility or liability of any nature for the failure of others to use good judgement.

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ULTIMA® SHOVELHEAD 96 C.I.



ULTIMA® SHOVELHEAD 96 C.I.

	PART#	DESCRIPTION	OEM#	QTY	#	PART#	DESCRIPTION	OEM#	QTY
	71-137	Rocker cover & feed oil lines. 66-84		kit	77	98-325	Snap ring	26348-36	each
	95-127	Oil line sleeve/O-ring	63529-57	each	78	53-528	Ignition rotor (gold)	32402-83	each
	41-779	Rocker shaft hardware		set	79	53-529	Ignition rotor screw	2611C	each
	95-701	O-ring	11101	each	80	91-352	Ignition timing screws	32606-82	each
	91-277	Rocker arm shim .005"		each	81	89-114	Ignition cover, Ultima w/screws	02000 02	each
	91-469	Rocker arm shim .010"		each	82	96-299A	Oil seal	83162-51	each
	91-470	Rocker arm shim .020"		each	83	88-110	Cam cover	25268-84A	each
	91-549		17452-66	each	84	78-672	Gasket, cam cover	25225-70B	each
		Rocker arm spacer	l					20220-706	1
	95-356	Bushing	17428-57	each	85	114-16	Cam for Ultima 96" Shovelhead, Andrews BH	05554.00	each
	91-287	Rocker arm shaft	17611-66A	each	86	98-378	Cam shim .070"	25554-36	each
	91-313	Rear exh./front int. rocker arm	17360-66	each		98-375	Cam shim .055"	25551-36	each
	91-314	Front exh./rear int. rocker arm	17375-66	each		98-376	Cam shim .060"	25552-36	each
)	40-318	Chrome rocker cover hdwre kit, 66-84, 18 hex nuts/18 flat wshers	7753 6016	kit		98-377	Cam shim .065"	25553-36	each
	89-344	Rocker arm covers, chrome, 66-84 includes chrome spacers		set		98-379	Cam shim .075"	25555-36	each
	78-700	Rocker box gasket		each		98-380	Cam shim .080"	25556-36	each
	91-1	Intake valve		each	87	98-372	Washer, cam thrust	25550-57	each
	91-2	Exhaust valve		each	88	98-359	Gear, oil pump drive	26349-73	each
					89	98-305		23985-54	
	91-573	Intake valve seat		each			Woodruff key		each
	91-572	Exhaust valve seat		each	90	98-89	Pinion gear spacer	24703-54B	each
	93-772	Compression release 10mm		each	91	98-588	Gear, pinion Red	24043-78	each
	91-706	Valve guide, int.	<u> </u>	each	1	98-585	Gear, pinion Orange	24040-78	each
	91-724	Valve guide, exh.		each		98-586	Gear, pinion White	24041-78	each
	91-342	Valve guide seal	1	each	I	98-587	Gear, pinion Yellow	24042-78	each
	91-688	Rocker box stud kit 66-84 8 long, 2 short, 1 motor mt.	1	kit	I	98-589	Gear, pinion Blue	24044-78	each
	91-346	Valve spring seat	1	each	I	98-590	Gear, pinion Green	24045-78	each
	91-548	Springs		set	I	98-591	Gear, pinion Black	24046-78	each
	91-546	Valve spring collar		set	92	98-358	Gear, oil pump driven	26345-73	each
	91-244	Valve keepers		set	93	98-512	Breather gear std.	25313-77	each
	93-261	Front cylinder, black 3-5/8 bore stock height		each		98-494	Breather gear +.030" 77 & ltr	25313-77	each
	93-262	Rear cylinder, black 3-5/8 bore stock height		each	94	98-80	Breather gear shim .110" 79 & ltr	25313-77A	each
	78-703	Head gasket		each		98-81	Breather gear shim .115" 79 & ltr	25321-79	each
	78-702	Base gasket		each		98-82	Breather gear shim .120" 79 & ltr	25322-79	each
	41-943	Base stud nuts & washers		kit		98-83	Breather gear shim .125" 79 & ltr	25323-79	each
	93-421	Head bolt & washer kit, cad plated 48-84	6469	kit	95	98-302	Nut, pinion	24023-54	each
	41-993	Cylinder base stud set 78-84 8 pcs.	16837-78	set	96	40-614	Bolt kit for Ultima cam cvr. Chrome	2.020 0.	kit
	95-805	Oil seal	12026	each	97	91-636	Hydraulic lifter, Jims powerglide		each
- 1									
	98-360	Spacer, sprocket shaft 71-99 BT	24002-700	each	98	78-670	Front tappet guide gasket		each
٠	95-320	Bearing & race set	9028	set		78-671	Rear tappet guide gasket		each
	98-490A	Timing plug	720	each	99	91-638	Tappet guide set, chrome		set
;	98-545	Set screw 10-24		each	100	91-262	Pushrod set		set
'	300-533	Case bolt 5/16-18 x 2-3/4		each	101	91-331	Pushrod cover assy. Chrome		set
3	300-535	Case bolt 1/4-20 x 4.0		each	102	95-701	O-ring Pushrod cover upper & lower	11101	each
	300-534	Case bolt 5/16-18 x 3-1/2		each	103	95-241	O-ring Pushrod cover middle	11132	each
	98-544	1/4 pipe plug for case		each	104	98-517	Oil pump complete H.O. 92 & ltr polished		each
	300-453	Bushing, oil pump 36 & Itr		each	'07	98-520	Oil pump complete H.O. 92 & ltr black		each
	21-123	Spigot tube	63533-41	each	105	98-524	Crankshaft assy. 4.625" stroke .792" wristpin		
			l						assy.
	98-531	Pinion bearing retaining ring	11177	each	106	93-140	Ultima Shovelhead piston set by Ross rings,clips & pins included std. bore		set
	95-602	Pinion bearing White	24626-87	each		93-141	Ultima Shovelhead piston set by Ross rings, clips & pins included .005" over		set
	95-603	Pinion bearing Green	24628-87	each		93-142	Ultima Shovelhead piston set by Ross rings, clips & pins included .010" over		set
*	95-604	Pinion bearing Red	24641-87	each		93-143	Ultima Shovelhead piston set by Ross rings, clips & pins included .020" over		set
[95-605	Pinion bearing Blue	24643-87	each	107	98-339	Sprocket shaft]	each
	95-173	Cam bearing	9058	each	108	94-137	Woodruff key	23985-56	each
	98-540	Dowel pin .250"x.500"	358	each	109	98-421	Nut, crank pin 1"-20	23969-83	each
	98-543	3/16 Hi pressure plug		each	110	98-652	Crankshaft halves only 4.625" Stroke .792 wristpin		each
			2/08/1 70					24017 00	
	98-510	Screen, crankcase	24981-70	each	111	98-539	Nut, sprocket shaft 1-1/8"-16	24017-80	each
	98-511	Spring, crankcase 70-99 BT	24982-70	each	112	98-537	Crankpin w/nut & key	1	each
	98-538	Screen plug	l	each	113	95-145	Rod race set for 7.44" rods	1	each
	95-429	Bearing race	24599-58B	each	114	98-422	Nut, pinion shaft 3/4"-20	24016-80	each
	300-541	Alignment pin .500" x.500"	1	each	115	98-546	Pinion Shaft std length	1	each
	206-21	96" Ultima Shovelhead case assembly, natural	1	assy	116	98-475	Woodruff key	11218	each
	41-888	Spring cap	26263-80	kit	117	95-259	Rod roller bearings & retainer cage	24385-40B	each
	95-828	O-ring 84-99	11105	pkg. 5	118	98-573	Connecting rods H-beam 7.440" w/bushings & races		each
	98-619	•	26207-83		119	95-142	Replacement wristpin bushing .792"	24334-36	
		Plunger spring		each	'''	30-142	replacement whistpiri bushing .132	24004-00	each
	98-620	Check ball spring	26262-80	each	I				
	98-617	Check ball	8873	each	I	l	1	I	I
	98-623	Plunger	26400-82	each	l _		(11		
	98-618	Idler pin	26327-68	each	I Ev	ery atte	mpt has been made to insure proper fitmer	t of our pa	rts to
	98-605	Gear, return idle 10T	1	each		•	ations listed in this guide. It is the end users		
	98-604	Gear, return drive 10T	1	each	I "		<u> </u>	•	•
	98-607	Gear, feed idle 10T	1	each	1	exerc	ise good judgement in the part selection, ir	stallation 8	3.
- [98-606	Gear, feed drive 10T	1		Ι.				
	00000	· · · · · · · · · · · · · · · · · · ·	00007 50	each	maintenance of their motor when installing parts referred to in this				
	05 752	Oilean			reference guide. Midwest MC Supply has no control over the				
	95-753	Oil seal	26227-58	pkg. 5		refere	nce guide. Midwest MC Supply has no con	trol over th	e
	95-753 98-329 98-334	Oil seal Clip ring Drive shaft	11002 26346-70	each			nce guide. Midwest MC Supply has no con int of others & assumes no responsibility or		

each

26346-70

26348-15

45830-48

63533-41

Drive shaft

Woodruff key

Spigot elbow

Pressure plug

Base gasket 92 & ltr

Cover gasket 92 & Ltr

Oil pump hardware kit

Pump base H.O. 92 & ltr pol. Pump cover H.O. 92 & ltr pol.

Spigot tube

98-334

98-272

21-185

98-622

21-123

98-625

98-627

98-602

98-603

41-740

67

72

73

74 75 76

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