



VIOLA V-TWIN™

QUALITY SERVICE PARTS

Endorsed by





Your S&S Dealer Number

About Viola V-Twin™

S&S Cycle is extremely pleased to launch a selection of high quality service parts for Harley-Davidson® and other American v-twin motorcycles; Viola V-Twin™! Anyone familiar with S&S Cycle will recognize the name of the small village of Viola, Wisconsin where S&S has been located since 1969. Now, based on customer demand, and the fact that many of our dealers depend on service work for a growing portion of their livelihood, we are expanding our product offering to include service/repair parts for stock v-twin engines. It is our aim to simplify your life, and to help you grow your business by providing the quality service parts you need to service your customer's needs. Think of Viola V-Twin as your trusted business partner, here to save you time and money, making it easier to find the service parts you need every day. Don't turn away work because of parts availability!

Quality Does Not Cost More...It Pays More!

Quality service parts are getting harder to find, but your customers deserve nothing less. Besides, one service call-back due to a part problem can eat up any profit you made on a job! The aim of Viola V-Twin is to give your shop access to quality service parts that meet or exceed OEM specifications, so you can take in more work, and so that every job is successful and profitable.

Viola V-Twin is starting out as an offering of select S&S parts that can be used to support the needs of basic, day-to-day service work. So far, the concept has been well received in the market, but we're not stopping there. We realize that our product lineup needs to grow and evolve over time to position Viola V-Twin as the one-stop, first-call service parts solution that smart independent shops are looking for. S&S will manufacture many of the parts, but in order to fill out our product offering, we intend to seek out and source quality service parts from other manufacturers. These products will be made in the U.S. if at all possible, but either way all will be endorsed by S&S.

Help Us Help You!

If you are having trouble finding certain parts, why not let us know what you need? That will help us prioritize future additions to the Viola V-Twin product line. To suggest parts for the catalog, send us an email at sscust@sscycle.com, call your S&S customer service representative at 866-244-2673, or log on to the Viola V-Twin website at www.violavtwin.com and use the product suggestion form under the "Contact" menu.

ViolaVTwin.com

The entire catalog of quality service parts is available online. Download the entire catalog to your desktop for easy reference. Sign up for our notification service to keep up-to-date with our latest product offerings.

Check out the back inside cover for more detailed features of violavtwin.com!

Phone: 866-244-2673
Email: sscust@sscycle.com
www.violavtwin.com

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CYLINDER, HEAD AND VALVE REPLACEMENT PARTS FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

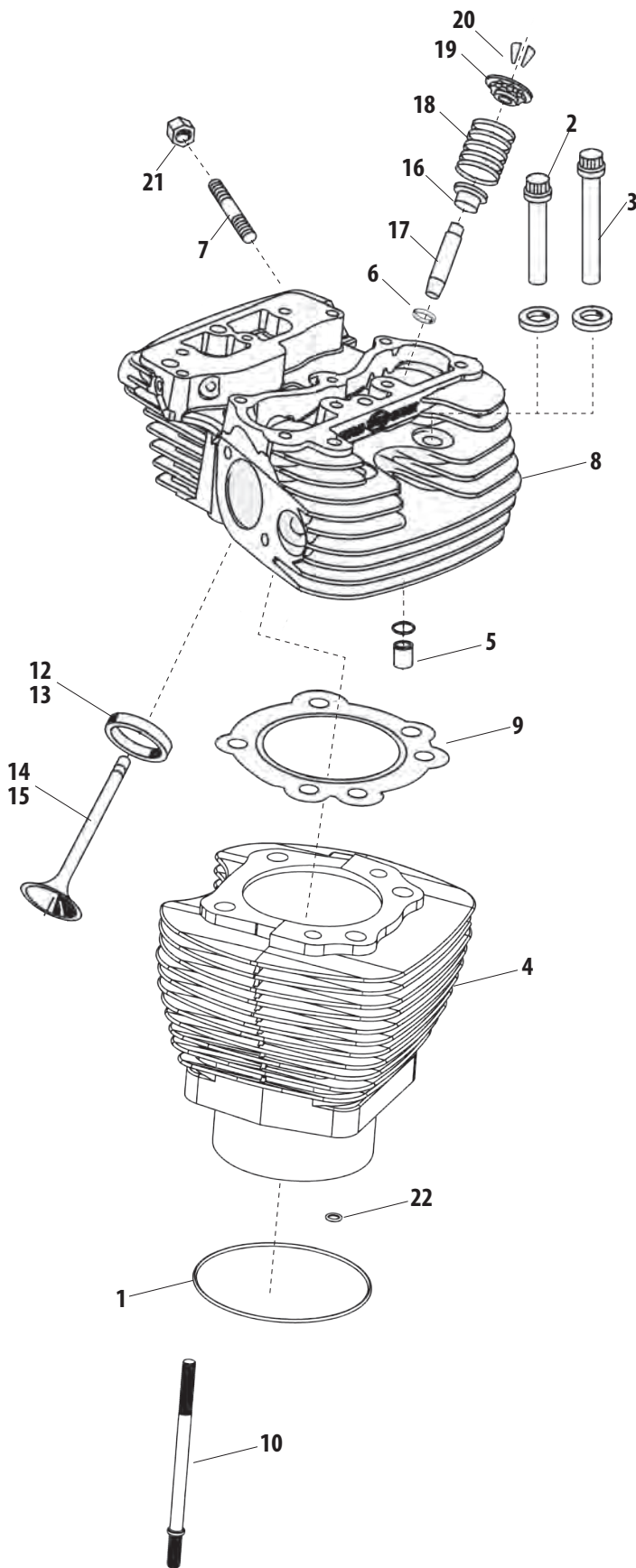
#	Description	H-D® Part No.	VVT Part No.
1	O-ring, (-155), 3.987" ID x 4.193" OD, Viton® (2)	11256	50-8048
2	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 3.384" x .950" TD (4) <i>See chart for complete Head Bolt Kit</i>	16478-85A	—
3	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 2.170" x .950" TD (4) <i>See chart for complete Head Bolt Kit</i>	16480-92A	—
4	Cylinder Assembly, Front or Rear, w/ piston, rings, piston pin, & retaining rings, 3.750" Bore (silver) for 2006 Dyna® models (2)	16525-99	—
	Cylinder Assembly, Front or Rear, w/ piston, rings, piston pin, & retaining rings, 3.750" Bore (black) for 2006 Dyna® models (2)	16526-99	—
	Cylinder Assembly, Front or Rear, w/ piston, rings, piston pin, & retaining rings, 3.750" Bore (silver) for Twin Cam 96™ models (2)	17459-07	—
	Cylinder Assembly, Front or Rear, w/ piston, rings, piston pin, & retaining rings, 3.750" Bore (black) for Twin Cam 96™ models (2)	17458-07	—
	Cylinder Assembly, Front or Rear, w/ piston, rings, piston pin, & retaining rings, 3-7/8" Bore (black) For Twin Cam 103™ models <i>See chart for compatible Cylinder Set</i>	17460-07A	—
5	Pin, Dowel, .437" x .610", Steel (4) <i>each</i>		50-8177
	Pin, Dowel, 1999-up bt, 4 Pack	16595-99A	50-8177-4
	Pin, Dowel, .437" x .610", Steel, 10 Pack		50-8179
6	Collar Guide, exhaust only (2)	16606-05	—
7	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel <i>each</i>		50-0493
	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel 5 Pack	16715-83	50-1028
8	Cylinder Head, front w/ guides, seats, & collars (silver) <i>See chart for complete Cylinder Head Kit</i>	17106-06	—
	Cylinder Head, rear w/ guides, seats, & collars (silver) <i>See chart for complete Cylinder Head Kit</i>	17112-06	—
	Cylinder Head, front w/ guides, seats, & collars (black) <i>See chart for complete Cylinder Head Kit</i>	17178-06	—
	Cylinder Head, rear w/ guides, seats, & collars (black) <i>See chart for complete Cylinder Head Kit</i>	17179-06	—
	Cylinder Head, front, w/ guides, & seats (black) <i>See chart for complete Cylinder Head Kit</i>	17721-08	—
	Cylinder Head, front, w/ guides, & seats (silver) <i>See chart for complete Cylinder Head Kit</i>	17724-08	—
	Cylinder Head, rear, w/ guides, & seats (silver) <i>See chart for complete Cylinder Head Kit</i>	17181-06	—
9	Gasket, Head, Stock Pattern, .043", 3-3/4", Graphite, 304 SS, 1999-up bt (2) <i>each</i>		93-1045-S
	Gasket, Head, Stock Pattern, .043", 3-3/4", Graphite, 304 SS, 1999-up bt (2) 10 Pack	16775-99B	93-1060
	Gasket, Head, Stock Pattern, .045", 3.927", Layer Steel, 1999-up bt <i>See chart for compatible Head Gasket</i>	16787-99A	—
10	Stud, Cylinder Base, 3/8-16 UNC x 6.070", Black, Steel, 1999-up bt (8) <i>each</i>		31-2325-S
	Stud, Cylinder Base, 3/8-16 UNC x 6.070", Black, Steel, 1999-up bt (8) 8 Pack	16834-99A	31-2340
11	Gasket Kit, top end (not shown)	17052-99B	—
	Gasket Kit, engine overhaul (not shown)	17053-99B	—
12	Insert, exhaust valve seat (2)	18011-86	—
	Insert, exhaust valve seat - 0.005 O.S. (2)	18124-83A	—
13	Insert, intake valve seat (2)	18020-83	—
	Insert, intake valve seat - 0.005 O.S. (2)	18134-83A	—
14	Intake Valve, Blue Collar, 7mm (2)	18074-05A	—
15	Exhaust Valve, 7mm (2)	18085-05B	—
16	Seal, Valve (4) <i>See chart for compatible Valve Guide Seal</i>	18094-02	—
17	Valve Guide, intake & exhaust (4)	16465-06	—
18	Valve Spring (4) <i>See chart #23 for complete Valve Spring kit</i>	18245-02	—
19	Collar, Valve Spring (4) <i>See chart #23 for complete Valve Spring kit</i>	18258-02	—
20	Retainer, Valve Collar (8) <i>See chart #23 for complete Valve Spring kit</i>	18260-02	—
21	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel <i>each</i>		50-5025-S
	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel 2 Pack	7593	50-5025-2
	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel 5 Pack		50-1001
22	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® <i>each</i>		50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® 10 Pack	11273	50-8078

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

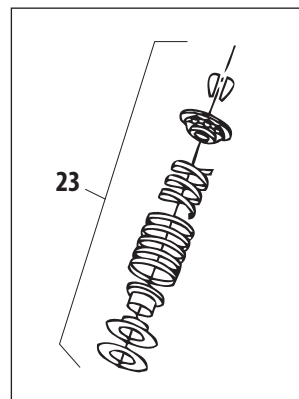
#	Description	VVT Part No.
2, 3	Head Bolt, Kit, Stock Heads, 12 pt, 1999-2012 bt (bolts and washers for two cylinder heads)	93-3014
	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 3.384" x .950" TD	93-3030
	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 2.170" x .950" TD	93-3031
4	Cylinder, Set, Front and Rear, Cylinders Only, 3-7/8" Bore, 4.937", Silver, 1999-up bt, 11 Fin for 95" or 103"	910-0207
	Cylinder, Set, Front and Rear, Cylinders Only, 3-7/8" Bore, 4.937", Wrinkle Black, 1999-up bt, 11 Fin for 95" or 103"	910-0208
8	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 79cc, 1.940" Intake, 1.575" Exhaust, Silver (includes front and rear assembled heads and .640" valve springs)*	106-3227
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 79cc, 1.940" Intake, 1.575" Exhaust, Black (includes front and rear assembled heads and .640" valve springs)*	106-3233
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 89cc, 2.0" Intake, 1.605" Exhaust, Silver (includes front and rear assembled heads and .640" valve springs)*	106-3255
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 89cc, 2.0" Intake, 1.605" Exhaust, Black (includes front and rear assembled heads and .640" valve springs)*	106-3240
9	Gasket, Head, Stock Pattern, .045", 3.927", Layer Steel, 1999-up bt <i>each</i>	106-3714
	Gasket, Head, Stock Pattern, .045", 3.927", '99-up bt, 10 Pack	900-0218
16	Seal, Valve Guide, 2005-2012 bt* (Does not have or work with integral bottom collar) for .562" O.D. guides, Viton® <i>each</i>	106-5688
23	Spring, Kit, Valve, .585", Steel, (7mm valve stem), 2005-2012 bt	900-0420

* Not legal for sale or use on CA or EPA pollution controlled vehicles.

ORDER TOLL FREE 866-244-2673



S&S® .585" Lift Dual Valve Springs



Note: VVT parts cross referenced to stock OEM parts are functionally identical, but may differ slightly in appearance. Line drawings are a typical representation and may not be an exact match. Please confirm the required stock part number for intended application before ordering. All reference to H-D® part numbers are for identification purposes only. We are in no way implying that any of the VVT products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.

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ROCKER ARM ASSEMBLY AND PUSHRODS FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

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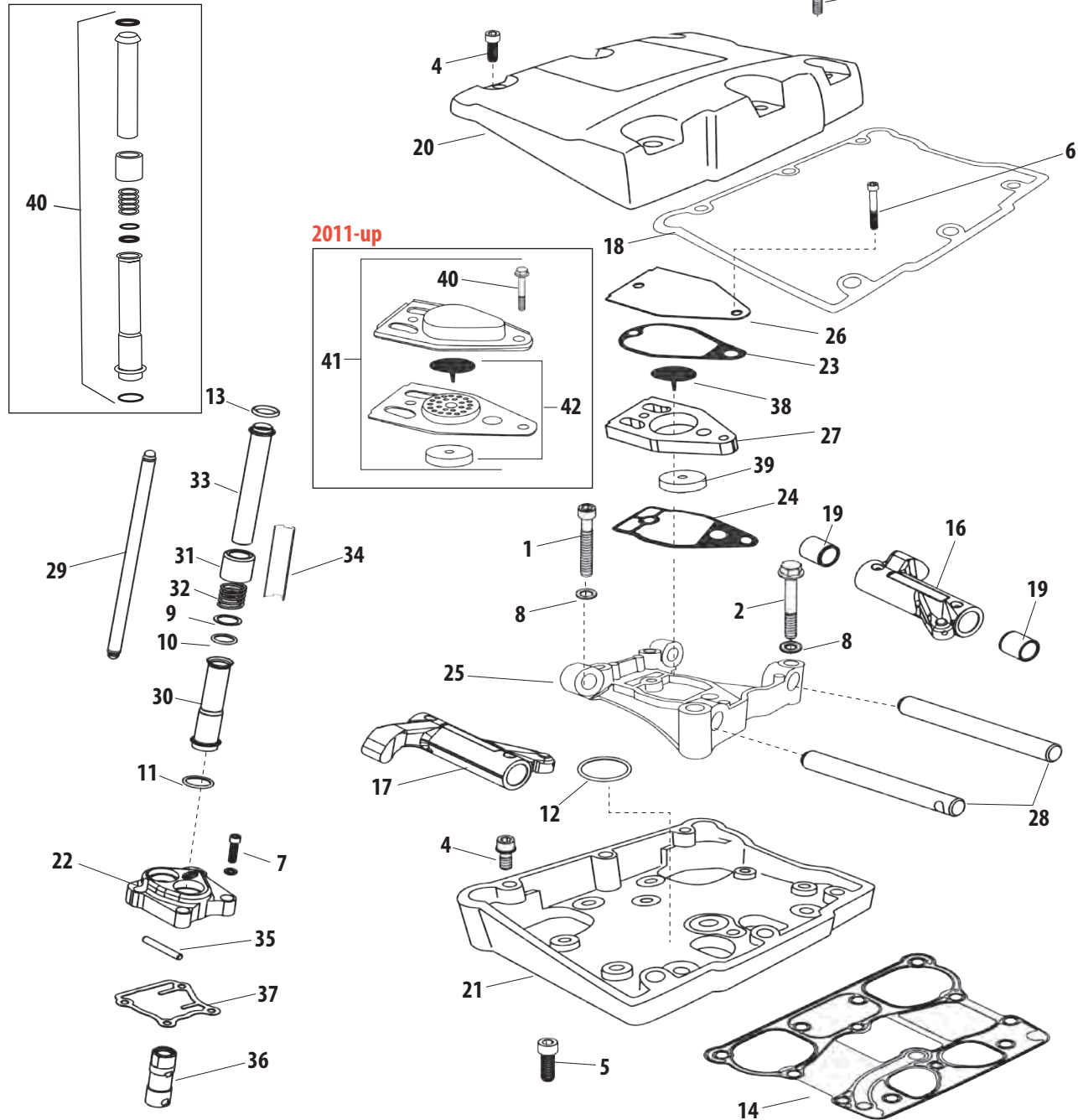
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#	Description	H-D® Part No.	VVT Part No.
1	Bolt, 5/16-18 X 2-3/4 hex. hd. (Grade 8 steel) (4)	3500	—
2	Screw, HHC, Flanged, 5/16-18 x 2-1/2", Zinc, Steel (4)	3501	50-0123
3	Screw, 5/16-18 X 1.0 hex hd., w/lockpatch (6)	3692A	—
4	Screw, 5/16-18 X 1-3/4 hex hd., w/lockpatch (10)	3693A	—
5	Screw, 5/16-18 X 1-1/4 hex flange w/lock patch (8)	3736A	—
6	Screw, 1/4-20 X 2-1/4 hex head flange (grade 8) (4)	3746	—
7	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>		50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>	4741A	50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0154
8	Washer, Flat, .344" x .688" x .065", Zinc, Steel (8)	6016	50-7034
9	Washer, Flat, .715" x .950" x .031", Steel (4) <i>each</i>		50-7131
	Washer, Flat, .715" x .950" x .031", Steel (4) <i>10 Pack</i>	6762B	50-7136
10	O-ring, Middle, pushrod cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>each</i>		50-8038
	O-ring, Middle, pushrod cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>10 Pack</i>	11132A	93-4111
11	O-ring, Bottom, pushrod cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>each</i>		50-8037
	O-ring, Bottom, pushrod cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>10 Pack</i>	11145A	93-4112
12	O-ring, (-114), .625" ID x .812" OD, Black, Viton® (2) <i>each</i> Also available in the Gasket Kit, see chart	11270	50-8033
13	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® <i>each</i>		50-8039
	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® <i>10 Pack</i>	11293	93-4110
14	Gasket, rocker housing (2) Also available in the Gasket Kit, see chart	16719-99B	90-4071-S
15	Gasket Kit, cam service (Not Shown)	17045-99	—
16	Rocker Arm, Assembly, RE/Fl, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17360-83A	900-4119RA
17	Rocker Arm, Assembly, FE/RI, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17375-83A	900-4119FA
18	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>each</i> Also available in the Gasket Kit, see chart		90-4096-S
	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>2 Pack</i> Also available in the Gasket Kit, see chart	17386-99A	900-0438
	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>10 Pack</i> Also available in the Gasket Kit, see chart		900-0439
19	Bushing, rocker arm (8)	17429-91	—
20	Rocker Cover, chrome (2) See chart for complete Rocker Box Kit	17572-99	—
	Rocker Cover, polished (2) See chart for complete Rocker Box Kit	17575-99	—
21	Rocker Housing, chrome (2) See chart for complete Rocker Box Kit	17573-99	—
	Rocker Housing, polished (2) See chart for complete Rocker Box Kit	17574-99	—
22	Lifter Cover, Front, polished See chart for complete Tappet Cover Set	17576-99	—
	Lifter Cover, Rear, polished See chart for complete Tappet Cover Set	17577-99	—
	Lifter Cover, Front, chrome See chart for complete Tappet Cover Set	17964-99	—
	Lifter Cover, Rear, chrome See chart for complete Tappet Cover Set	17966-99	—
23	Gasket, Breather Cover, Stock Pattern, Paper, 1999-2010 bt (2) Also available in the Gasket Kit, see chart	17162-03, 17591-99	90-4077
24	Gasket, Breather Baffle, Stock Pattern, Paper, 1999-2010 bt (2) Also available in the Gasket Kit, see chart	17162-03, 17592-99	90-4078
25	Support, rocker arm (2) See chart for complete Rocker Box Kit	17594-99	—
26	Cover, breather (2) 2007-'10 bt	17595-99	—
27	Baffle, breather (2) 2007-'10 bt	17596-99	—
28	Shaft, Rocker Arm, 1984-up bt (4)	17611-83	90-4006
29	Pushrod, exhaust - 10.536" long (black oxide finish) (2) See chart for complete Pushrod Set	17922-99	—
	Pushrod, intake - 10.418" long (plain finish) (2) See chart for complete Pushrod Set	17923-99	—
30	Cover, pushrod - lower (4) See chart for complete Pushrod Cover Kit	17939-99	—
31	Cap, Pushrod Cover, 1936-up bt, 1957-'90 xl (4)	17945-36B	93-4017
32	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt (4)	17947-36	93-4018
33	Cover, pushrod - upper (4) See chart for complete Pushrod Cover Kit	17948-99	—
34	Retainer, spring cap (4)	17968-99	—
35	Pin, Dowel, .250" x 1.750", Alloy (2) <i>each</i>		50-8195-S
	Pin, Dowel, .250" x 1.750", Alloy (2) <i>2 Pack</i>	18535-99	50-8195
36	Tappet, Set, Hydraulic, 1999-up bt (4) S&S P/N is for a set of four tappets	18538-99C	33-5350
37	Gasket, Tappet Cover, 1999-up bt (2) <i>each</i>		33-5303-S
	Gasket, Tappet Cover, 1999-up bt (2) <i>2 Pack</i>	18635-99B	33-5303-2
	Gasket, Tappet Cover, 1999-up bt (2) <i>10 Pack</i>		33-5615
38	Valve, umbrella (2)	26858-99	—
39	Filter Element, breather (2)	63815-99	—
40	Bolt, 2011-up bt	4400	—
41	Breathe Assembly, 2011-up bt	17025-03A	—
42	Breather, Baffle Assembly, w/ Breather Valve & Filter	26500002	—



S&S® Pushrod Cover Kit



NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) <i>Note: These products are compatible replacements as assemblies.</i>		
#	Description	VVT Part No.
12, 14, 18, 23, 24	Gasket, Kit, Rocker Cover, 1999-'10 bt (includes gaskets for 2 rocker covers)	90-4097
20, 21, 25	Rocker Box, Kit, Chrome, Die Cast, 1999-up bt	90-4110
22	Tappet Cover, Set, Stock Style, 1999-up bt, Polished Billet, includes gaskets and hardware	33-5601
	Tappet Cover, Set, Stock Style, 1999-up bt, Chrome Billet, includes gaskets and hardware	106-3883
29	Pushrod, Set, Stock, Steel, 1999-2012 bt, Standard Adjustable* (*requires Pushrod Covers #106-1340 and retaining clips #93-4100)	93-5096
	Pushrod, Set, Stock, Steel, 1999-2012 bt, Quickee Adjustable* (*requires Pushrod Covers #106-1340 and retaining clips #93-4100)	93-5122
	Pushrod, Set, Stock, Steel, 1999-2012 bt, Crane Cams Timesaver Adjustable	4-0031
30, 33, 40	Pushrod Cover, Kit, Chrome, 1999-2012 bt* (*requires Cover Keeper Set #93-4100 to complete installation)	106-1340
34	Cover Keeper, Set, Pushrod, 2.500", Chrome (Set of 4) NOTE: stock length is 1.750"	93-4100

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PISTON AND FLYWHEEL ASSEMBLY FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

#	Description	H-D® Part No.	VVT Part No.
1	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046", Carbon Steel, SAE 1060-1090 <i>each</i>	11177A	50-8057
	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046", Carbon Steel, SAE 1060-1090 <i>5 Pack</i>		50-1004
2	Piston Ring Set, standard (2) for Twin Cam 96™ models	21949-07	—
	Piston Ring Set, standard (2) for Twin Cam 103™ models	21918-99	—
	Piston Ring Set, 0.005" O.S. (2) for Twin Cam 96™ models	21950-07	—
	Piston Ring Set, 0.005" O.S. (2) for Twin Cam 103™ models	21919-99	—
	Piston Ring Set, 0.010" O.S. (2) for Twin Cam 96™ models	21955-07	—
	Piston Ring Set, 0.010" O.S. (2) for Twin Cam 103™ models	21945-99	—
	3	Piston & Rings Assembly, w/ piston pin & lock rings - std. (2) 3.750" bore, Twin Cam 96™ models	21959-07
Piston & Rings Assembly, w/ piston pin & lock rings - std. (2) 3.875" bore, Twin Cam 103™ models		21962-07	—
Piston & Rings Assembly w/ piston pin & lock rings - 0.005" O.S. (2) 3.750" bore, Twin Cam 96™ models		21960-07	—
Piston & Rings Assembly w/ piston pin & lock rings - 0.005" O.S. (2) 3.875" bore, Twin Cam 103™ models		21963-07	—
Piston & Rings Assembly w/ piston pin & lock rings - 0.010" O.S. (2) 3.750" bore, Twin Cam 96™ models		21961-07	—
Piston & Rings Assembly w/ piston pin & lock rings - 0.010" O.S. (2) 3.875" bore, Twin Cam 103™ models		21964-07	—
4	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>each</i>	22097-99	94-9278-5
	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>2 Pack</i>		94-9278-2
	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>4 Pack</i>		106-2304
5	Piston Pin (2)	22131-05	—
6	Flywheel, Assembly, 4-3/8" Stroke, 8-1/4" Diameter, Stock Replacement, w/Tapered WP Ends, Balanced, 2007-up bt See chart for complete Flywheel Assembly	23729-07A	—
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Balanced, 2006 Dyna®, 2007-up bt See chart for complete Flywheel Assembly	23955-06	—
	Flywheel, Assembly, 4-3/8" Stroke, 8-1/4" Diameter, Stock Replacement, w/Tapered WP Ends, Balanced, 2007-up bt w/ Balancer Softail® models See chart for complete Flywheel Assembly	23912-07A	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
6	Flywheel, Assembly, 4-3/8" Stroke, 8-1/4" Diameter, Stock Replacement, w/Tapered WP Ends, Balanced, 2007-up bt	106-3363*
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Balanced, 2006 Dyna®, 2007-up bt	32-2293*
	Flywheel, Assembly, 4-3/8" Stroke, 8-1/4" Diameter, Stock Replacement, w/Tapered WP Ends, Balanced, 2007-up bt w/ Balancer, Softail® models	106-3364*

**Use of these flywheel assemblies in stock 2003-2012 crankcases requires transferring the race and thrust washer from your stock wheel or installation of the H-D® bearing kit #24004-03A*



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

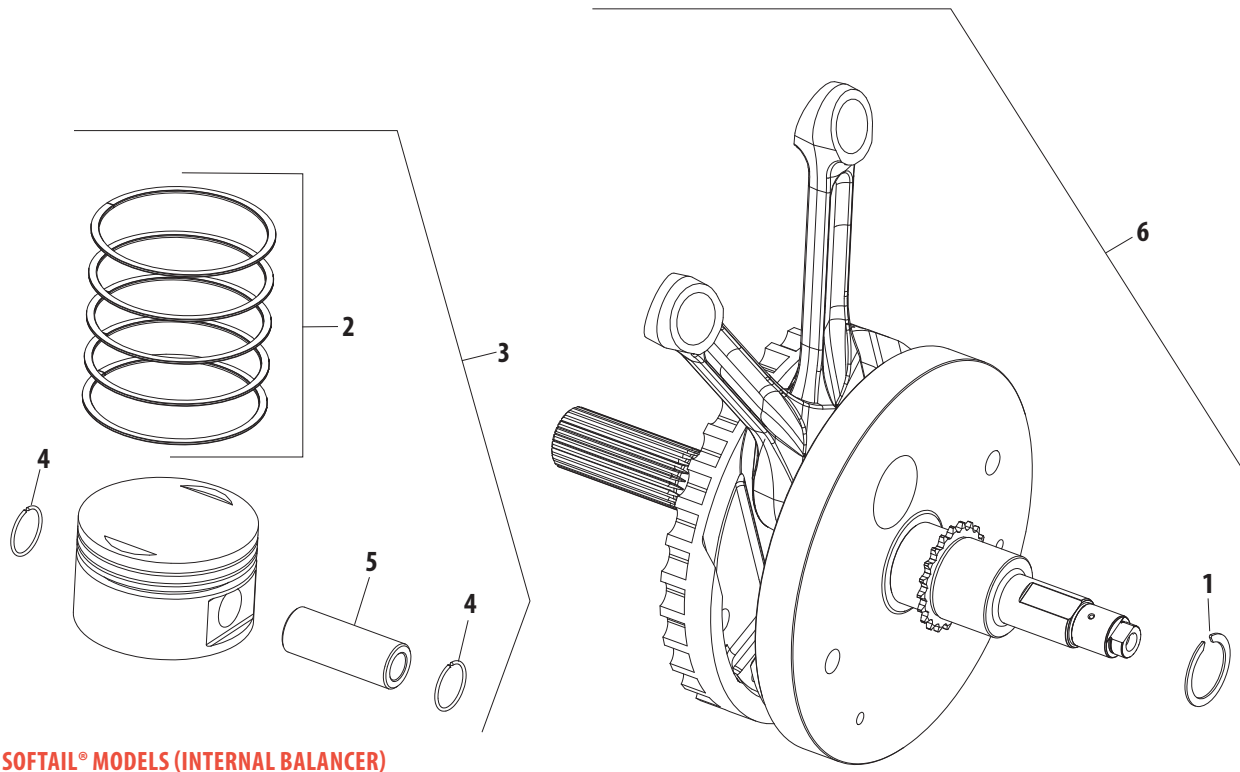
Parts for
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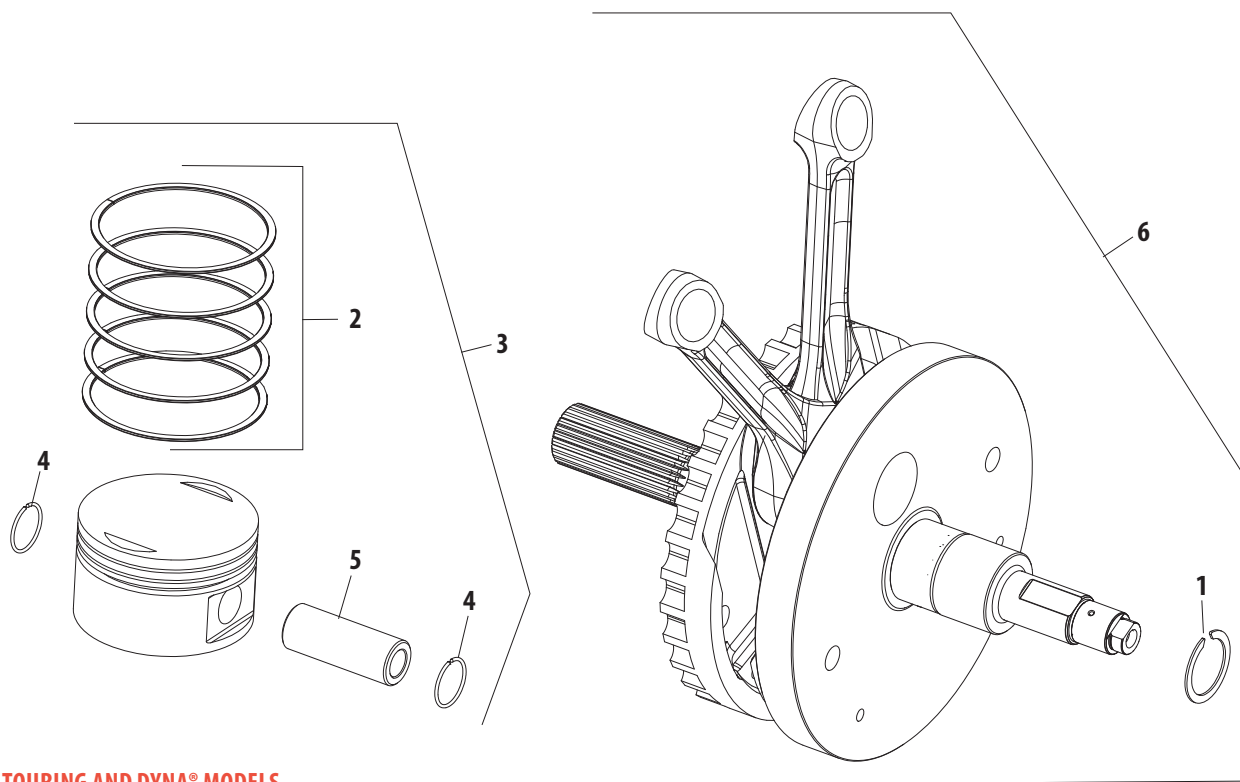
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SOFTAIL® MODELS (INTERNAL BALANCER)



TOURING AND DYNA® MODELS

Note: VVT parts cross referenced to stock OEM parts are functionally identical, but may differ slightly in appearance. Line drawings are a typical representation and may not be an exact match. Please confirm the required stock part number for intended application before ordering. All reference to H-D® part numbers are for identification purposes only. We are in no way implying that any of the VVT products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
Shovelheads

Parts for
Panheads

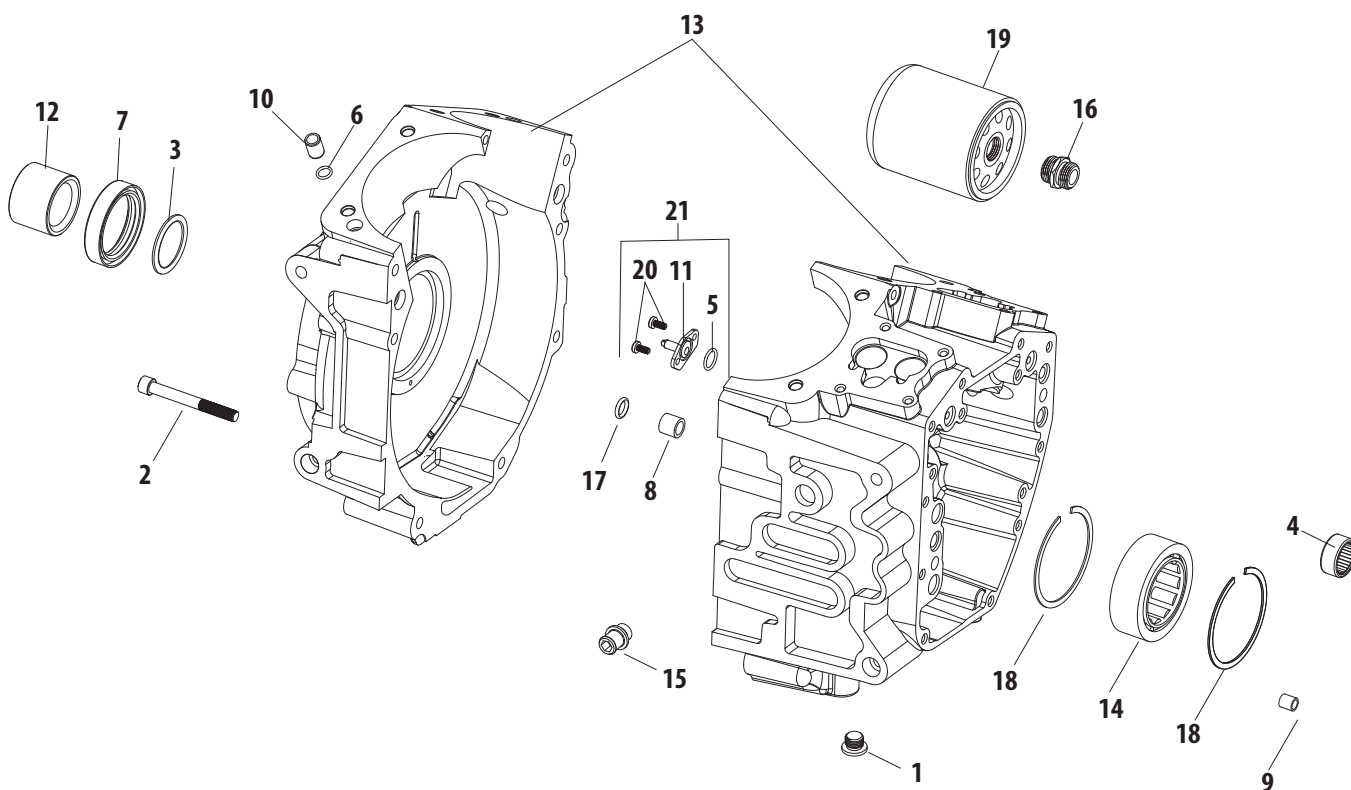
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Parts for
Flatheads

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ALL CRANKCASES & ENGINE OIL FILTER FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

#	Description	H-D® Part No.	VWT Part No.
1	Plug, Pipe, 3/4 Taper, 1/4-18 NPTF x .460", Zinc, Steel	765	50-8330
2	Screw, 5/16-18 x 3.0 hex flange hd. (Grade 5) (9)	895	—
3	Washer, 1-1/4 x 1-53/64 x 1/8	8972	—
4	Bearing, Inner, Needle, Cam, 1.0" x 1.25" x .50" <i>each</i>	9215	31-4199-S
	Bearing, Inner, Needle, Cam, 1.0" x 1.25" x .50" <i>2 Pack</i>		31-4499
5	O-ring, (-014), .500" ID x .625" OD, Nitrile (2) <i>10 Pack</i>	11140	50-8130
6	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) <i>each</i>	11273	50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) <i>10 Pack</i>		50-8078
7	Seal, Left, Main Bearing, 1999-up bt	12068	31-4035
8	Pin, Dowel, .557" x .500", Steel (2) <i>each</i>	16574-99A	50-8023
	Pin, Dowel, .557" x .500", Steel (2) <i>10 Pack</i>		50-8109
9	Pin, Dowel, .275" x .397", Steel (2)	16589-99A	50-8148-S
10	Pin, Dowel, .437" x .610", Steel (4)	16595-99A	50-8177
11	Jet, Assembly, Piston Cooling, 1999-up bt (2) NOTE: The S&S Piston Oiler is billet aluminum	22371-99, 22307-99	31-2025B
12	Spacer, Sprocket Shaft 1999-'02	24008-99	—
	Spacer, Sprocket Shaft 2003-up	24008-03	—
13	Set of Crankcases, TCA 2006-up, (silver)	24654-06B	—
	Set of Crankcases, TCA 2006-up, (black)	24621-06B	—
14	Bearing, Right, Main, 2000-'06 bt w/Balancer, 2003-'06 bt without Balancer (2)	24604-00D	31-4085
	Bearing, Main, for 2007 - '12 bt (2)	24605-07	—
15	Fitting, Straight (3)	26314-99	—
16	Fitting, Straight, 3/4-16 UNF 2A x 1", Steel	26352-95A	50-8197-S
17	O-ring, (-015), .562" ID x .068" OD, Black, Viton® (2)	26432-76A	50-8034-S
18	Retaining Ring, Internal, 2.731" x .031" x .158", Steel, SAE 1070-1090 (2)	35114-02	50-8160-S
19	Filter, Oil, 10 Micron Rating, Chrome <i>each</i>	63798-99A	31-4104
	Filter, Oil, 10 Micron Rating, Chrome <i>12 Pack</i>		310-0242
	Filter, Oil, 10 Micron Rating, Black <i>each</i>	63731-99A	31-4103
	Filter, Oil, 10 Micron Rating, Black <i>12 Pack</i>		310-0241
20	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel(4)	68042-99	50-0054-S
21	Jet, Kit, Piston Cooling, 4-1/8" 1984-'99 bt, 1999-up bt <i>2 Pack</i> NOTE: The S&S Piston Oiler is billet aluminum	22371-99, 22307-99	31-2026
Not Shown	Bearing Kit, w/# 3, 14, 18 & inner race (not shown)	24004-03A	—



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Parts for
Twin Cam 96^{cm}/103^{cm}
2007-2012

Parts for
Twin Cam 88^{cm}
1999-2006

Parts for
Evolution[®]
1984-1999

Parts for
Sportster[®]
1986-2012

Parts for
Shovelheads

Parts for
Panheads

Parts for
Knuckleheads

Parts for
Flatheads

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CAMSHAFTS AND CAM COVER FOR 2007-2012 HARLEY-DAVIDSON[®] BIG TWINS AND 2006 DYNA[®]

#	Description	H-D [®] Part No.	VVT Part No.
1	Roll Pin	601	—
2	Screw, primary chain tensioner (2)	927A	—
3	Screw, 1/4-20 x 1-1/4 knurled hd (Grade 8) (10)	4740A	50-0257-S
4	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0154
5	Washer, 13/32 x 1-1/8 x 7/32	6294	—
6	Bearing, Inner, Needle, Cam, 1.0" x 1.25" x .50" (2) <i>each</i>	9215	31-4199-S
	Bearing, Inner, Needle, Cam, 1.0" x 1.25" x .50" (2) <i>2 Pack</i>		31-4499
7	O-ring, (-209), .687" ID x .937" OD, Viton [®] <i>each</i>	11293	50-8039
	O-ring, (-209), .687" ID x .937" OD, Viton [®] <i>5 Pack</i>		50-8200
	O-ring, (-209), .687" ID x .937" OD, Viton [®] <i>10 Pack</i>		93-4110
8	O-ring, (-110), .375" ID x .562" OD, Viton [®] <i>each</i>	11301	50-8066-S
	O-ring, (-110), .375" ID x .562" OD, Viton [®] <i>10 Pack</i>		50-8066
9	Retaining Ring, External, Tru-arc, .722" x .042", Steel, SAE 1060-1090	11461	50-8061
10	Gasket Kit, cam service (Not Shown)	17045-99C	—
11	Screw, HHC, Flanged, Gr8, 5/16-18 x 3/4", Black, Steel (2)	25566-06	50-0100
12	Bushing, crankshaft, 2006 Dyna [®] models	25241-99	—
	Bushing, crankshaft, 2007-2009 big twins	25344-99	—
13	Gasket, Gearcover, Black, Paper, 1999-up bt <i>each</i>	25244-99A	31-2032-S
	Gasket, Gearcover, Black, Paper, 1999-up bt <i>10 Pack</i>		31-2063
14	Cam Support Plate w/ bypass valve	25355-06	—
15	Cam Cover, (black) <i>See chart for complete Cam Cover assembly</i>	25364-01A	—
	Cam Cover, (silver) <i>See chart for complete Cam Cover assembly</i>	25367-01A	—
	Cam Cover, (chrome) <i>See chart for complete Cam Cover assembly</i>	25369-01A	—
16	Camshaft Chain & Fastener Kit (Not Shown)	25585-06	—
17	Camshaft Kit	25595-06	—
18	Sprocket Kit, Cam Drive On Crankshaft - 17-Tooth	25673-06	—
19	Chain, Primary Cam Drive	25675-06	—
20	Chain, Secondary Cam Drive	25683-06	—
21	Sprocket, Cam Drive - 34 Tooth	25728-06	—
22	Spacer, Cam Drive Sprocket Alignment 0.100" Thick (Use As Required)	25729-06	—
23	Spacer, Cam Drive Sprocket Alignment 0.110" Thick (Use As Required)	25731-06	—
	Spacer, Cam Drive Sprocket Alignment 0.120" Thick (Use As Required)	25734-06	—
	Spacer, Cam Drive Sprocket Alignment 0.130" Thick (Use As Required)	25736-06	—
	Spacer, Cam Drive Sprocket Alignment 0.140" Thick (Use As Required)	25737-06	—
	Spacer, Cam Drive Sprocket Alignment 0.150" Thick (Use As Required)	25738-06	—
24	Oil Pump Assembly, w/ Body, Both Gerotor Assemblies, & Separator Plate All Models	26037-06	—
25	Spring, Relief Valve All Models	26210-99	—
26	Valve, Pressure Relief, Oil Pump	26400-82	31-6082
27	Cover, Timer Cover	32543-99	—
	Cover, Timer Cover (Black)	32558-99	—
28	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel (5)	68042-99	50-0054-S
29	Ball, Check Valve, .375", Stainless Steel (12) <i>each</i>	8873	50-8091
30	Chain Tensioner Assembly, Primary Cam Drive Chain	39968-06	—
31	Chain Tensioner Assembly, Secondary Cam Drive Chain	39969-06	—
32	Tensioner Shoe, Chain, Hydraulic, 2006-12 Dyna [®] , 2007-2012 bt	—	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
15	Cover, Cam Chest, Billet 6061, 1999-up bt, Polished (Hardware and gasket included)	31-6516
	Cover, Cam Chest, Billet 6061, 1999-up bt, Chrome (Hardware and gasket included)	106-3774



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

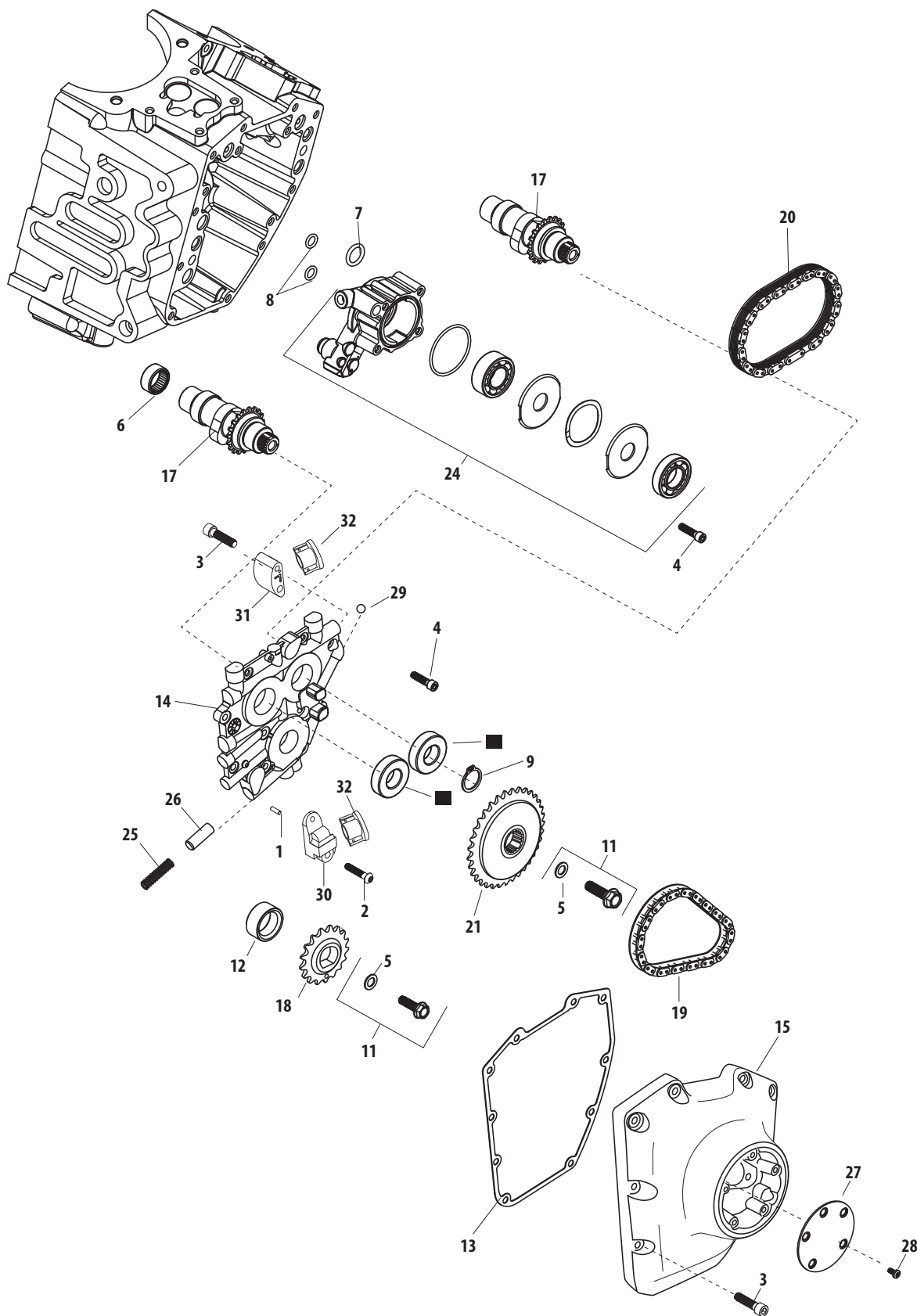
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Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88™
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
Shovelheads
1966-2012

Parts for
Panheads
1966-2012

Parts for
Knuckleheads
1966-2012

Parts for
Flatheads
1966-2012

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INDUCTION MODULE AND AIR FILTER FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

2007-2008 big twin and 2006 Dyna® models

#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>each</i>	3275	50-0302-S
	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>10 Pack</i>		50-0302
2	Seal, Manifold Air Pressure Sensor	11291	—
3	Flange, Mounting (2)	26993-06	—
4	Seal, Intake, Stock Heads, 1984-up bt, 1986-up xl (2)	26995-86B	16-0236
5	Intake Air Temperature Sensor Kit, w/Screws	27381-06	—
6	Injector, Fuel (2)	27625-06	—
	Fuel Injector Assembly (2)	27709-06A	—
7	Fuel Rail Service Kit, w/ Fuel Rail, Screws, Washers, O-Rings, & Tube (Not Shown)	27651-06	—
8	Induction Module Service Kit, Sensor O-Rings & Screws, Injector Clips, Fuel Tube Seal Retainer, & O-Rings (Not Shown)	27655-06	—
9	IAC Motor, w/ 2 screws	27658-06	—
10	Throttle Position Sensor, w/ screws	27659-06	—
11	Bracket, cable	27684-06	—
12	Sensor, MAP, IST® with Seal	32316-99	55-5057
13	MAP Sensor, w/o Seal	32424-98	—
14	Intake Air Temperature Harness	69607-06	—
15	Housing, 2-place female	72062-06	—
16	Terminal, #18 AWG female socket (2)	72094-06	—
17	Wire Seal, #18-20 AWG (yellow) (2)	72096-06	—
18	Housing, 2 place pin (black)	74102-98BK	—
19	Secondary Lock, 2-place pin	74142-98	—
20	Terminal, #16-20 AWG pin (2)	74190-98	—
21	Cap Plug (California Only)	90383-98	—
22	Gasket, Induction Module To Backplate (Not Shown)	29583-01A	—
23	O-Ring (2) (Not Shown)	11292	—
24	Backplate Assembly (Not Shown)	29581-01B	—
25	Screw, Breather (2)	29465-99	—
26	Breather Tube (2)	29476-99	—
27	Gasket, Filter Element	29313-95	—
28	Filter, Air, Carb/EFI, 2007-'11 Softail® models and 2012 FXS Blackline, except Cross Bones™ 2007 FL EFI, 2007 Dyna® EFI	29461-99	106-4630

2008-2012 Touring

#	Description	H-D® Part No.	VVT Part No.
29	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>each</i>	3275	50-0302-S
	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>10 Pack</i>		50-0302
30	Screw, 1/4-20 x 11/16 SEMS socket hd., w/lockpatch (2)	4705	—
31	Flange, Mounting (2)	26993-06	—
32	Seal, Intake, Stock Heads, 1984-up bt (2)	26995-86B	16-0236
33	Fuel Injector Assembly, w/ O-Ring (2)	27609-01B	—
34	Induction Module Service Kit	27711-08	—
35	Bracket, Induction Module	27712-08	—
36	Fuel Rail (Not Shown)	27721-08	—
37	Sensor, Temperature Manifold Absolute Pressure w/ O-Ring	32319-07	—
38	Fuel Line	62905-08	—
39	Cap, Purge Tube	90383-98	—
40	Gasket, Throttle Body, Throttle by Wire, 2008-Up bt <i>each</i>	29645-08	106-2643
	Gasket, Throttle Body, Throttle by Wire, 2008-Up bt <i>10 pack</i>		106-2664
41	Backplate Assembly (Not Shown)	29630-08A	—
42	Breather Bolt (2)	29465-08	—
43	Breather Tube (2)	29502-08	—
44	Filter Element, W/ 29645-08	29633-08	—



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

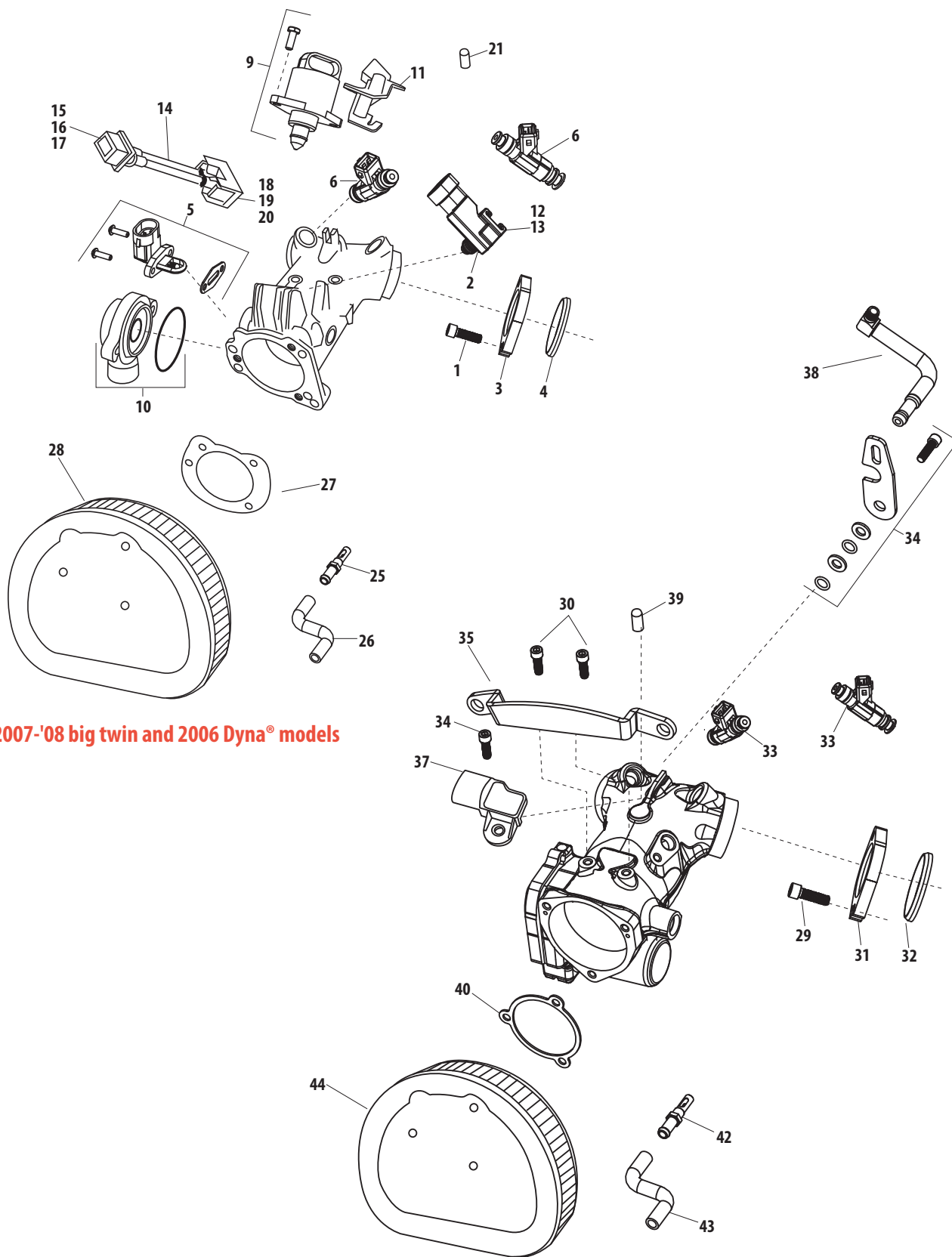
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2007-'08 big twin and 2006 Dyna® models

2008-2012 Touring models

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Parts for
Twin Cam 96^{cm}/103^{cm}
2007-2012

IGNITION MODULE

FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

Electronic Control Module - Fuel Injected

#	Description	H-D® Part No.	VVT Part No.
1	Screw, 1/4-20 x 1-1/4 knurled hd. (Grade 8) (4)	3601	—
2	Screw, No. 10-32 x 1/2 self tapping (Not Shown)	3602A	—
3	Screw, 1/4-20 x 2-1/4 knurled socket hd. (w/lockpatch) (2)	4717A	—
4	Washer, 1/4 x 7/16 x 1/16 (4)	6099	—
	Washer, No. 10 x 1/2 x 3/64 (4)	6716	—
5	Nut, No. 10-32 x 3/8 keys (4)	7629	—
6	Cable Strap, With Plug-In Retainer (4) (Not Shown)	10177	—
7	Coil Cover Assembly, with Pad (chrome) (Not Shown)	30202-01	—
8	Pad, Coil Cover (Not Shown)	31742-00	—
9	Ignition Coil, Dual	31743-01	—
10	Coil Cover Assembly, with Pad (Chrome) (Not Shown)	31772-01	—
	Coil Cover Assembly, with Pad (Black Wrinkle) (Not Shown)	31773-01	—
11	Spark Plug Cable, Front Cylinder	31981-99B	—
12	Spark Plug Cable, Rear Cylinder	31983-00B	—
13	Spark Plug, 6R12 (2) Champion® Spark Plug RN12YC each	32317-86A	55-1320
	Spark Plug, 6R12 (2) Champion® Spark Plug RN12YC 2 Pack		55-1322
	Spark Plug (2) Champion® Spark Plug RN12YC each	32362-04	55-1320
	Spark Plug (2) Champion® Spark Plug RN12YC 2 Pack		55-1322
14	Electronic Control Module w/Calibration See chart for complete VFI Module Kit	32612-01	—
	Electronic Control Module w/Calibration See chart for complete VFI Module Kit	32762-01	—
	Electronic Control Module, FLT/ST Base Level - DOM/HDI See chart for complete VFI Module Kit	32534-05	—
	Electronic Control Module, 2006 Dyna® Base Level See chart for complete VFI Module Kit	32534-05A	—
	Electronic Control Module (ECM), Base Level (Domestic, All HDI) Requires Digital Programming See chart for complete VFI Module Kit	32534-05B	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, requires digital programming	32498-06	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, requires digital programming	32534-11	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
14	Module, Kit, VFI, Delphi®, Pro Tune II Software, 2001-up bt except 2008-up Touring with S&S Calibration Software	55-5090

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
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Parts for
Panheads

Parts for
Knuckleheads

Parts for
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Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

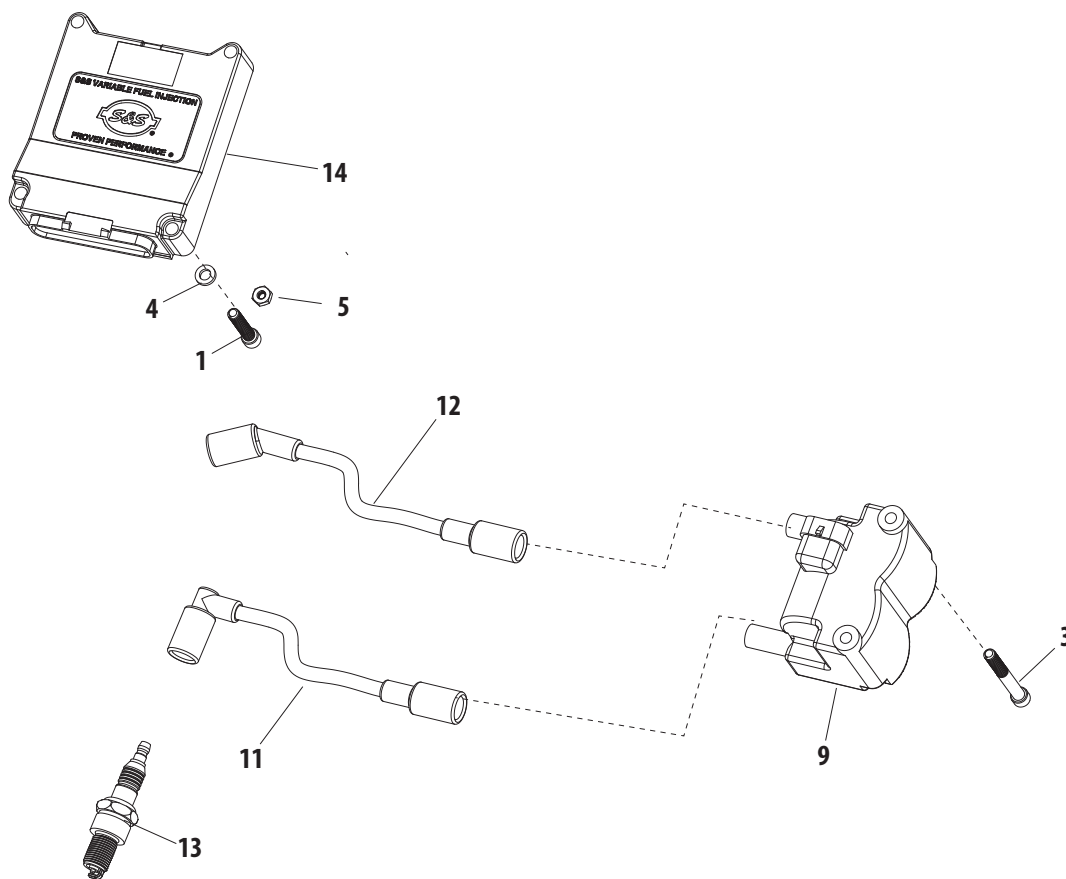
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Parts for
Twin Cam 96™/103™
2007-2012

ENGINE SENSORS FOR 2007-2012 HARLEY-DAVIDSON® BIG TWINS AND 2006 DYNA®

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
Shovelheads

Parts for
Panheads

Parts for
Knuckleheads

Parts for
Flatheads

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Cross Reference

#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0154
2	O-ring	11289	—
3	Seal, Barometric Pressure Sensor	11291	—
4	Oil Pressure Switch	26561-99	—
5	Sensor, MAP, IST® with Seal	32316-99	55-5057
6	Sensor, Temperature, Cylinder Head, 4-1/8" 1984-'99 bt, 1999-up bt	32446-99	55-1014
7	Sensor, crankshaft position	32798-00	—
	Sensor, Kit, Crank Position, 1984-2007 bt, w/ 11289A, 72199-94, 74194-98, & pins <i>S&S wire length is 48", stock is ~12"</i>	32707-01B	55-1051
8	Clamp, Hold-Down, MAP Sensor	38723-99	16-5077-S
9	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel (2)	68042-99	50-0054-S



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

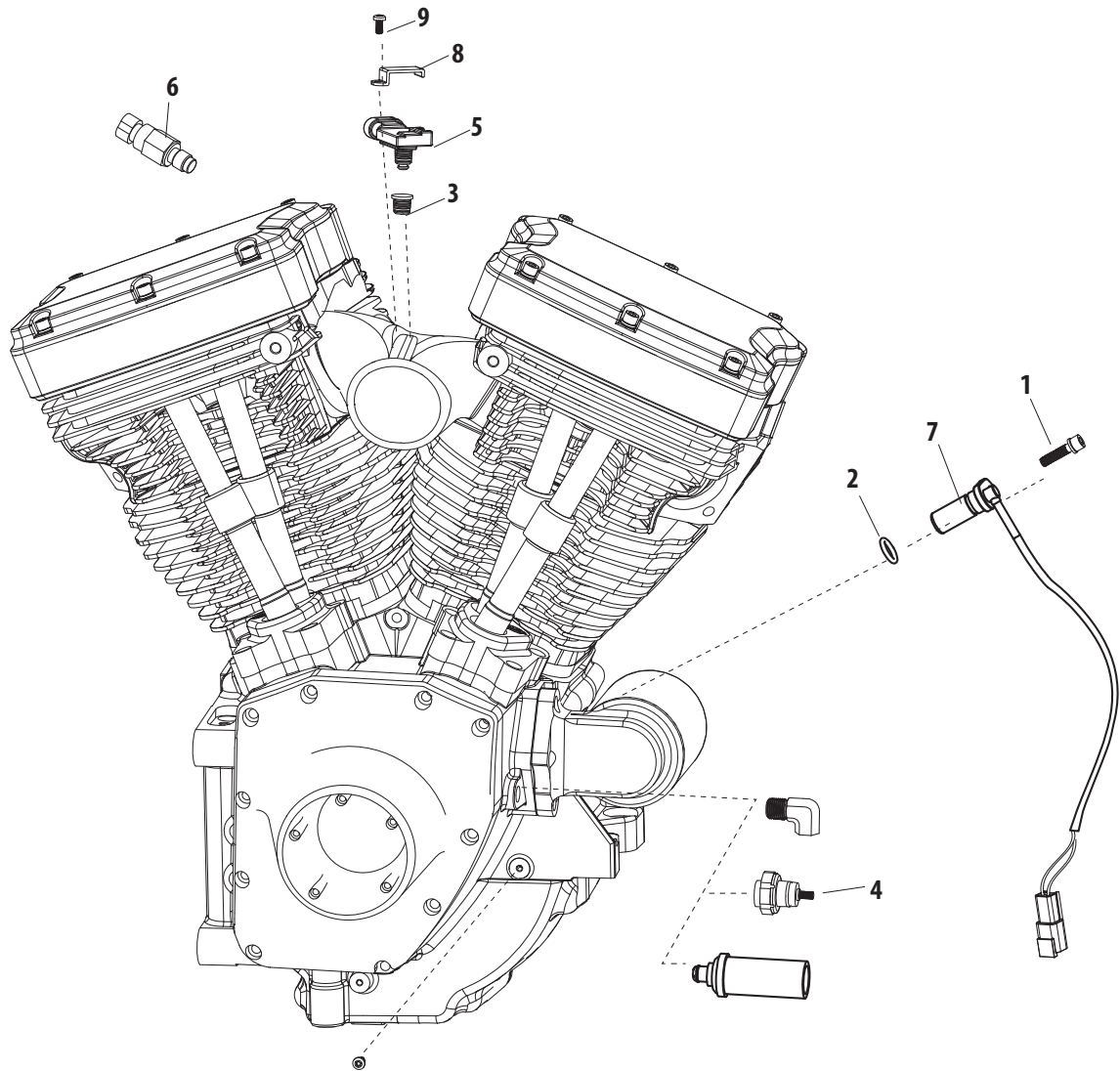
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CYLINDER, HEAD AND VALVE REPLACEMENT PARTS FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
Shovelheads

Parts for
Panheads

Parts for
Knuckleheads

Parts for
Flatheads

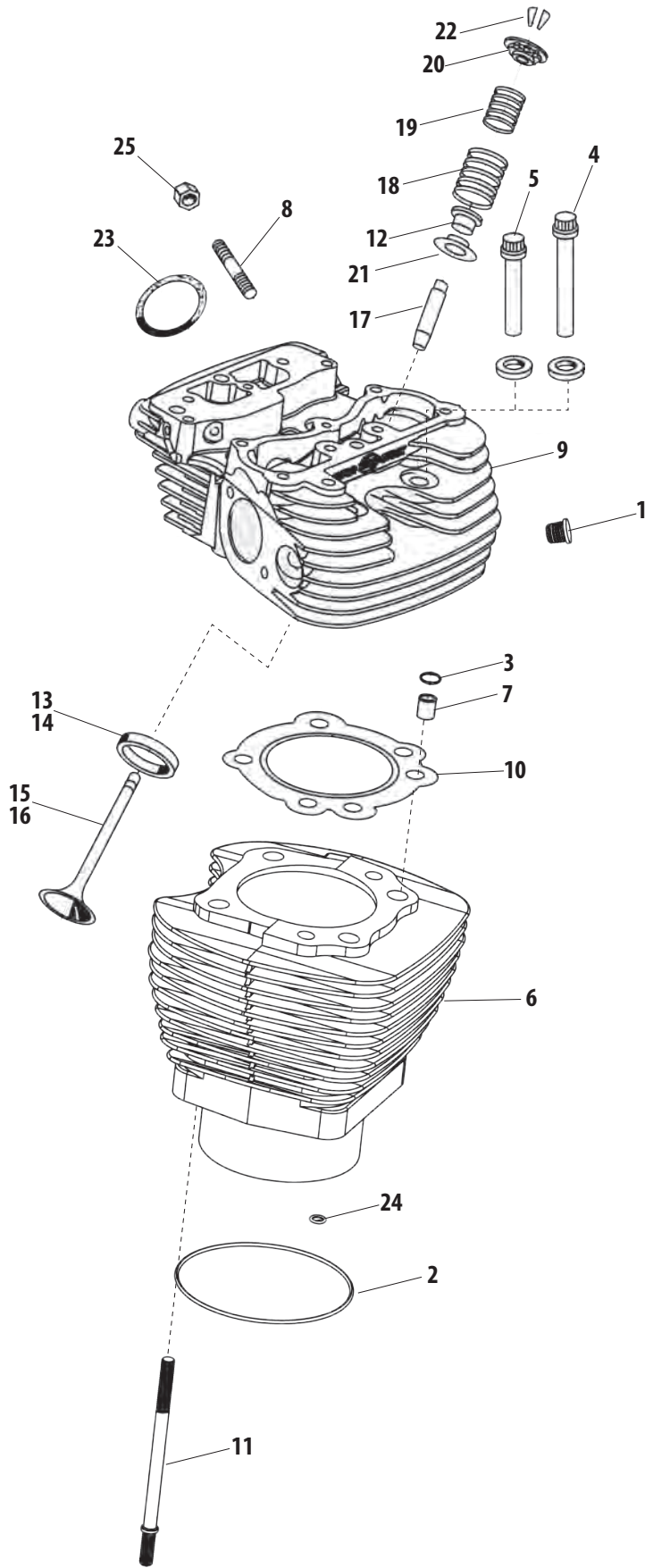
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#	Description	H-D® Part No.	VVT Part No.
1	Screw (plugs temperature sensor hole on carbureted vehicles)	4175	—
2	O-ring, (-155), 3.987" ID x 4.193" OD, Viton® (2) <i>each</i>	11256	50-8048
3	O-ring, (-014), .500" ID x .625" OD, Nitrile (4) <i>each</i>	11273	50-8032
	O-ring, (-014), .500" ID x .625" OD, Nitrile (4) <i>10 Pack</i>		50-8130
4	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 3.384" x .950" TD (4) <i>each</i> Also available in the Head Bolt Kit, see chart	16478-85A	—
5	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 2.170" x .950" TD (4) <i>each</i> Also available in the Head Bolt Kit, see chart	16480-92	—
6	Cylinder Assembly, w/ piston, rings, piston pin & retaining rings (silver) (2) See chart for compatible Cylinder Set	16525-99	—
	Cylinder Assembly, w/ piston, rings, piston pin & retaining rings (black) (2) See chart for compatible Cylinder Set	16526-99	—
7	Pin, Dowel, .437" x .610", Steel, cylinder to head (4) <i>each</i>	16595-99A	50-8177
	Pin, Dowel, .437" x .610", Steel, cylinder to head (4) <i>4 Pack</i>		50-8177-4
	Pin, Dowel, .437" x .610", Steel, cylinder to head (4) <i>10 Pack</i>		50-8179
8	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel (4) <i>each</i>	16715-83	50-0493
	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel (4) <i>8 Pack</i>		31-2340
9	Cylinder Head, front w/guides & seats (silver) See chart for compatible Cylinder Head Kits	16716-99	—
	Cylinder Head, rear w/guides & seats (silver) See chart for compatible Cylinder Head Kits	16717-99	—
	Cylinder Head, front w/guides & seats (black) See chart for compatible Cylinder Head Kits	16722-99	—
	Cylinder Head, rear w/guides & seats (black) See chart for compatible Cylinder Head Kits	16724-99	—
10	Gasket, cylinder head, 88", 3 3/4" bore (2)	16775-99	—
	Gasket, cylinder head, 95", 3 7/8" bore (2) See chart for compatible Cylinder Head Gasket	16787-99A	—
11	Stud, Cylinder Base, 3/8-16 UNC x 6.070", Black, Steel, 1999-up bt (8) <i>each</i>	16834-99A	31-2325-S
	Stud, Cylinder Base, 3/8-16 UNC x 6.070", Black, Steel, 1999-up bt (8) <i>8 Pack</i>		31-2340
12	Seal, Valve Guide, 1984-'04 bt (4) <i>each</i> See chart for available Valve Guide Seal for 2005-'12 bt	18001-83B	90-2008
	Seal, Valve Guide, 1984-'04 bt (4) <i>8 Pack</i> See chart for available Valve Guide Seal for 2005-'12 bt		90-2158
13	Insert, Exhaust Valve Seat (2)	18011-86	—
	Insert, Exhaust Valve Seat, +.005 O.S. (2)	18124-83	—
14	Insert, Intake Valve Seat (2)	18020-83	—
	Insert, Intake Valve Seat, +.005 O.S. (2)	18134-83	—
15	Intake Valve (2)	18074-83A	—
16	Exhaust Valve (2)	18085-99	—
17	Valve Guide, Intake/Exhaust, Standard, .5620" - .5625" O.D., Cast Iron, 1984-up bt (4)	18112-92	90-2210
	Valve Guide, Intake/Exhaust, +.001", .5630" - .5635" O.D., Cast Iron, 1984-up bt (4)	18130-83D	90-2211
	Valve Guide, Intake/Exhaust, +.003", .5640" - .5645" O.D., Cast Iron, 1984-up bt (4)	18131-83D	90-2213
	Valve Guide, Intake/Exhaust, +.002", .5650" - .5655" O.D., Cast Iron, 1984-up bt (4)	18133-83B	90-2212
18	Valve Spring, Outer (4) See chart #27 for complete Valve Spring kit	18201-83	—
19	Valve Spring, Inner (4) See chart #27 for complete Valve Spring kit	18202-83	—
20	Collar, Valve Spring, Upper (4) See chart #27 for complete Valve Spring kit	18219-83	—
21	Collar, Valve Spring, Lower (4) See chart #27 for complete Valve Spring kit	18222-83A	—
22	Retainer, Valve Collar (8) See chart #27 for complete Valve Spring kit	18229-83	—
23	Gasket, Exhaust, Tapered, Stainless Steel, 1984-up bt (2)	65324-83A	106-5029
24	O-ring, (-013), .437" ID x .565" OD, Viton®, <i>each</i>	11105, 11275	50-8008
	O-ring, (-013), .437" ID x .565" OD, Viton® <i>10 Pack</i>		50-8078
25	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel <i>each</i>	7593	50-5025-S
	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel <i>2 Pack</i>		50-5025-2
	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel <i>5 Pack</i>		50-1001

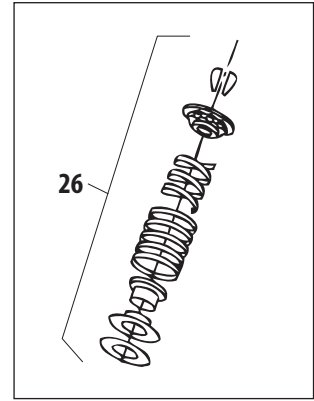
NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
4, 5	Head Bolt, Kit, Stock Heads, 12 pt, 1999-2012 bt	93-3014
	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 3.384" x .950" TD	93-3030
	Head Bolt, w/ Washer, 12 pt, 3/8-16 x 2.170" x .950" TD	93-3031
6	Cylinder, Set, Front and Rear, Cylinders only, Unhoned, 3-7/8" Bore, 4.937", Silver, 1999-up bt, 11 Fin for 95" or 103", Silver	910-0207
	Cylinder, Set, Front and Rear, Cylinders only, Unhoned, 3-7/8" Bore, 4.937", Wrinkle Black, 1999-up bt, 11 Fin for 95" or 103", Black	910-0208
9	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 79cc, 1.940" Intake, 1.575" Exhaust, Silver (includes front and rear assembled heads and .640" valve springs)*	106-4277
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 79cc, 1.940" Intake, 1.575" Exhaust, Black (includes front and rear assembled heads and .640" valve springs)*	90-1293
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 89cc, 2.0" Intake, 1.605" Exhaust, Silver (includes front and rear assembled heads and .640" valve springs)*	106-4270
	Head, Kit, Stock & 3-7/8" Bore, .640" Triple Steel, 89cc, 2.0" Intake, 1.605" Exhaust, Black (includes front and rear assembled heads and .640" valve springs)*	90-1106
10	Gasket, Head, Stock Pattern, .045", 3.927", Layer Steel, 1999-up bt <i>each</i>	106-3714
	Gasket, Head, Stock Pattern, .045", 3.927", Layer Steel, 1999-up bt <i>10 Pack</i>	900-0218
12	Seal, Valve Guide, 2005-2012 bt* (Does not have or work with integral bottom collar) <i>each</i>	106-5688
26	Spring, Kit, Valve, .585", Steel, (5/16" valve stem), 1999-2004 bt	90-2277
	Spring, Kit, Valve, .585", Steel, (7mm valve stem), 2005-2012 bt	900-0420

* Not legal for sale or use on CA or EPA pollution controlled vehicles.



S&S® .585" Lift Dual Valve Springs



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ROCKER ARM ASSEMBLY AND PUSHRODS FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Bolt, 5/16-18 x 2-3/4 hex. hd. (Grade 8 steel) (4)	3500	—
2	Screw, HHC, Flanged, 5/16-18 x 2-1/2", Zinc, Steel (4)	3501	50-0123
3	Screw, 5/16-18 x 1.0 hex hd., w/lockpatch (6)	3692A	—
4	Screw, 5/16-18 x 1-3/4 hex hd., w/lockpatch (10)	3693A	—
5	Screw, 5/16-18 x 1-1/4 hex flange w/lockpatch (8)	3736A	—
6	Screw, 1/4-20 x 2-1/4 hex head flange (grade 8) (4)	3746	—
7	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0154
8	Washer, 11/32 x 11/16 x 1/16 (8)	6016	—
9	Washer, Flat, .715" x .950" x .031", Steel (4) <i>each</i>	6762B	50-7131
	Washer, Flat, .715" x .950" x .031", Steel (4) <i>10 Pack</i>		50-7136
10	O-ring, Middle, Pushrod Cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>each</i>	11132A	50-8038
	O-ring, Middle, Pushrod Cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>10 Pack</i>		93-4111
11	O-ring, Bottom, Pushrod Cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>each</i>	11145A	50-8037
	O-ring, Bottom, Pushrod Cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>10 Pack</i>		93-4112
12	O-ring, (-114), .625" ID x .812" OD, Black, Viton® (2) <i>Also available in the Gasket Kit, see chart</i>	11270	50-8033
13	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>each</i> <i>Also available in the Gasket Kit, see chart</i>	11293	50-8039
	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>5 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		50-8200
	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>10 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		93-4110
14	Gasket, Bottom, Rocker Cover, Graphite, 4-1/8", 1999-up bt (2) <i>each</i> <i>Also available in the Gasket Kit, see chart</i>	16719-99B	90-4071-S
	Gasket, Bottom, Rocker Cover, Graphite, 4-1/8", 1999-up bt (2) <i>2 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		90-4071
	Gasket, Bottom, Rocker Cover, Graphite, 4-1/8", 1999-up bt (2) <i>10 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		90-4099
15	Gasket Kit, Cam Service (Not Shown)	17045-99	—
16	Rocker Arm, Assembly, RE/FI, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17360-83A	900-4119RA
17	Rocker Arm, Assembly, FE/RI, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17375-83A	900-4119FA
18	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>each</i> <i>Also available in the Gasket Kit, see chart</i>	17386-99A	90-4096-S
	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>2 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		900-0438
	Gasket, Rocker Cover, Steel, 1999-up bt (2) <i>10 Pack</i> <i>Also available in the Gasket Kit, see chart</i>		900-0439
19	Bushing, Rocker Arm (8)	17429-91	—
20	Rocker Cover, Chrome (2) <i>See chart for complete Rocker Box Kit</i>	17572-99	—
	Rocker Cover, Polished (2) <i>See chart for complete Rocker Box Kit</i>	17575-99	—
21	Rocker Housing, Chrome (2) <i>See chart for complete Rocker Box Kit</i>	17573-99	—
	Rocker Housing, Polished (2) <i>See chart for complete Rocker Box Kit</i>	17574-99	—
22	Lifter Cover, Front, Polished <i>See chart for complete Tappet Cover Set</i>	17576-99	—
	Lifter Cover, Rear, Polished <i>See chart for complete Tappet Cover Set</i>	17577-99	—
	Lifter Cover, Front, Chrome <i>See chart for complete Tappet Cover Set</i>	17964-99	—
	Lifter Cover, Rear, Chrome <i>See chart for complete Tappet Cover Set</i>	17966-99	—
23	Gasket, Breather Cover, Stock Pattern, Paper, 1999-2010 bt (2) <i>Also available in the Gasket Kit, see chart</i>	17591-99, 17162-03	90-4077
24	Gasket, Breather Baffle, Stock Pattern, Paper, 1999-2010 bt (2) <i>Also available in the Gasket Kit, see chart</i>	17592-99, 17162-03	90-4078
25	Support, Rocker Arm (2) <i>See chart for complete Rocker Box Kit</i>	17594-99	—
26	Cover, Breather (2)	17595-99	—
27	Baffle, Breather (2)	17596-99	—
28	Shaft, Set, Rocker Arm, 1984-up bt (Set includes 4 shafts)	17611-83	90-4006
29	Pushrod, Exhaust - 10.536" long (black oxide finish) (2) <i>See chart for Adjustable Pushrod Set options</i>	17922-99	—
	Pushrod, Intake - 10.418" long (plain finish) (2) <i>See chart for Adjustable Pushrod Set options</i>	17923-99	—
30	Cover, pushrod - Lower (4) <i>See chart for Pushrod Cover Kit</i>	17939-99	—
31	Cap, Pushrod Cover, 1936-up bt (4)	17945-36B	93-4017
32	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt (4)	17947-36	93-4018
33	Cover, Pushrod - Upper (4) <i>See chart for Pushrod Cover Kit</i>	17948-99	—
34	Retainer, Spring Cap (4) <i>See chart for Pushrod Cover Keeper Set</i>	17968-99	—
35	Pin, Dowel, 1999-up bt (2) <i>2 Pack</i>	18535-99	50-8195
36	Tappet, Set, Hydraulic, 1999-up bt (4) <i>4 Pack</i>	18538-99C	33-5350
37	Gasket, Tappet Cover, 1999-up bt (2) <i>each</i>	18635-99B	33-5303-S
	Gasket, Tappet Cover, 1999-up bt (2) <i>2 Pack</i>		33-5303-2
	Gasket, Tappet Cover, 1999-up bt (2) <i>10 Pack</i>		33-5615
38	Valve, Umbrella (2)	26858-99	—
39	Filter Element, Breather (2)	63815-99	—

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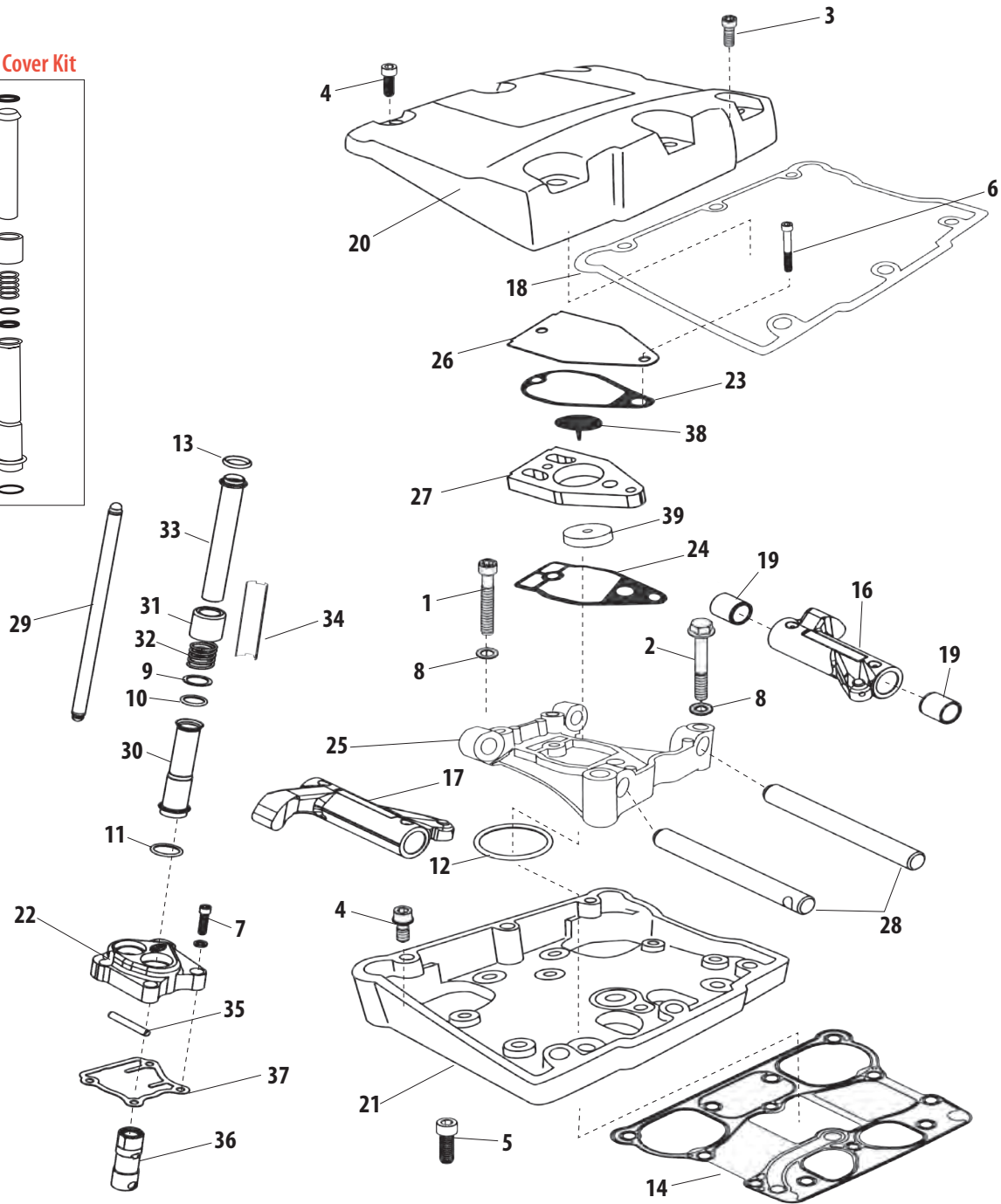
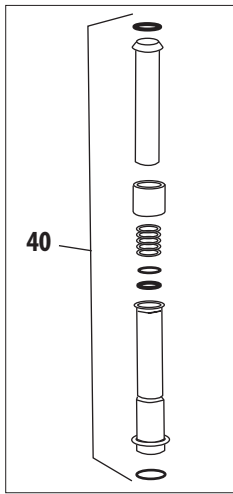
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S&S® Pushrod Cover Kit



NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
12, 14, 18, 23, 24	Gasket, Kit, Rocker Cover, 1999-'10 bt (includes gaskets for 2 rocker covers)	90-4097
20, 21, 25	Rocker Box, Kit, Chrome, Die Cast, 4-1/8", 1999-2012 bt	90-4110
22	Tappet Cover, Set, Stock Style, 1999-2012 bt, Polished Billet (includes hardware and gaskets)	33-5601
	Tappet Cover, Set, Stock Style, 1999-2012 bt, Chrome Billet (includes hardware and gaskets)	106-3883
29	Pushrod, Set, Stock, Steel, 1999-2012 bt, Standard Adjustable* (*requires Pushrods Covers #106-1340 and Retaining Clips #93-4100)	93-5096
	Pushrod, Set, Stock, Steel, 1999-2012 bt, Quickee Adjustable* (*requires Pushrods Covers #106-1340 and Retaining Clips #93-4100)	93-5122
	Pushrod, Set, Stock, Steel, 1999-2012 bt, Crane Cams Timesaver Adjustable	4-0031
30, 33, 40	Pushrod Cover, Kit, Chrome, 1999-2012 bt* (*Requires Cover Keeper Set #93-4100 to complete installation)	106-1340
34	Cover Keeper, Set, Pushrod, 2.500", Chrome (Set of 4) NOTE: Stock is 1.750"	93-4100

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PISTON AND FLYWHEEL ASSEMBLY FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Piston Ring Set, Standard (2)	21936-99	—
	Piston Ring Set, +.005" O.S.(2)	21937-99	—
	Piston Ring Set, +.010" O.S. (2)	21938-99	—
2	Piston and Rings Assembly, w/ piston pin & lock rings, Standard (2)	21930-99	—
	Piston and Rings Assembly, w/ piston pin & lock rings +.005" O.S. (2)	21931-99	—
	Piston and Rings Assembly, w/ piston pin & lock rings +.010" O.S. (2)	21933-99	—
3	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>each</i>	22097-99	94-9278-S
	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>2 Pack</i>		94-9278-2
	Wristpin Keeper, C-Clip, .927", Spring Wire Steel (4) <i>4 Pack</i>		106-2304
4	Wristpin (2)	22132-99	—
5	Bushing, Piston Pin, +.002" O.S. (2)	24316-99	—
6	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Notched, Balanced, 1999-2002 bt	23957-99E	32-2240
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Notched, Balanced, 1999-2002 bt w/ Balancer	23912-00D	32-2241
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Balanced, 2006 Dyna® <i>See chart for compatible Flywheel Assembly</i>	23955-06B	—
	Flywheel, Assembly, TCA w/#23957-99B, 11177A, thrust washer, plugs, inner race, connecting rods, flywheels, bearings, crankpin, & ring, 2003-'06 bt, except 2006 Dyna® <i>See chart for compatible Flywheel Assembly</i>	23904-03B	—
	Flywheel, Assembly, TCB w#23971-03, 11177A, thrust washer, plug expansion, crankpin, connecting rods, bearings, flywheels, 2003-'06 bt <i>See chart for compatible Flywheel Assembly</i>	23912-00D	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	H-D® Part No.	VVT Part No.
6	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Notched, Balanced, 1999-2006 bt (without race and thrust washer)	23904-03B	32-2240*
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Notched, Balanced, 1999-2006 bt w/ Balancer	23912-00D	32-2241*
	Flywheel, Assembly, 4" Stroke, 8-1/4" Diameter, Balanced, 2006 Dyna®	23955-06B	32-2293*

**Use of these flywheel assemblies in stock 2003-2012 crankcases requires installation of the H-D® bearing kit #24004-03A*



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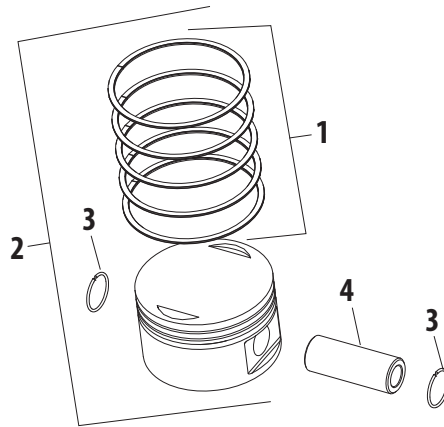
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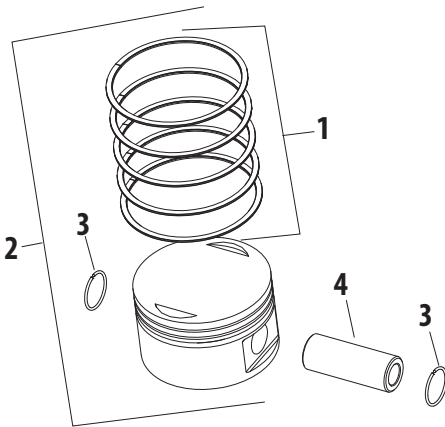
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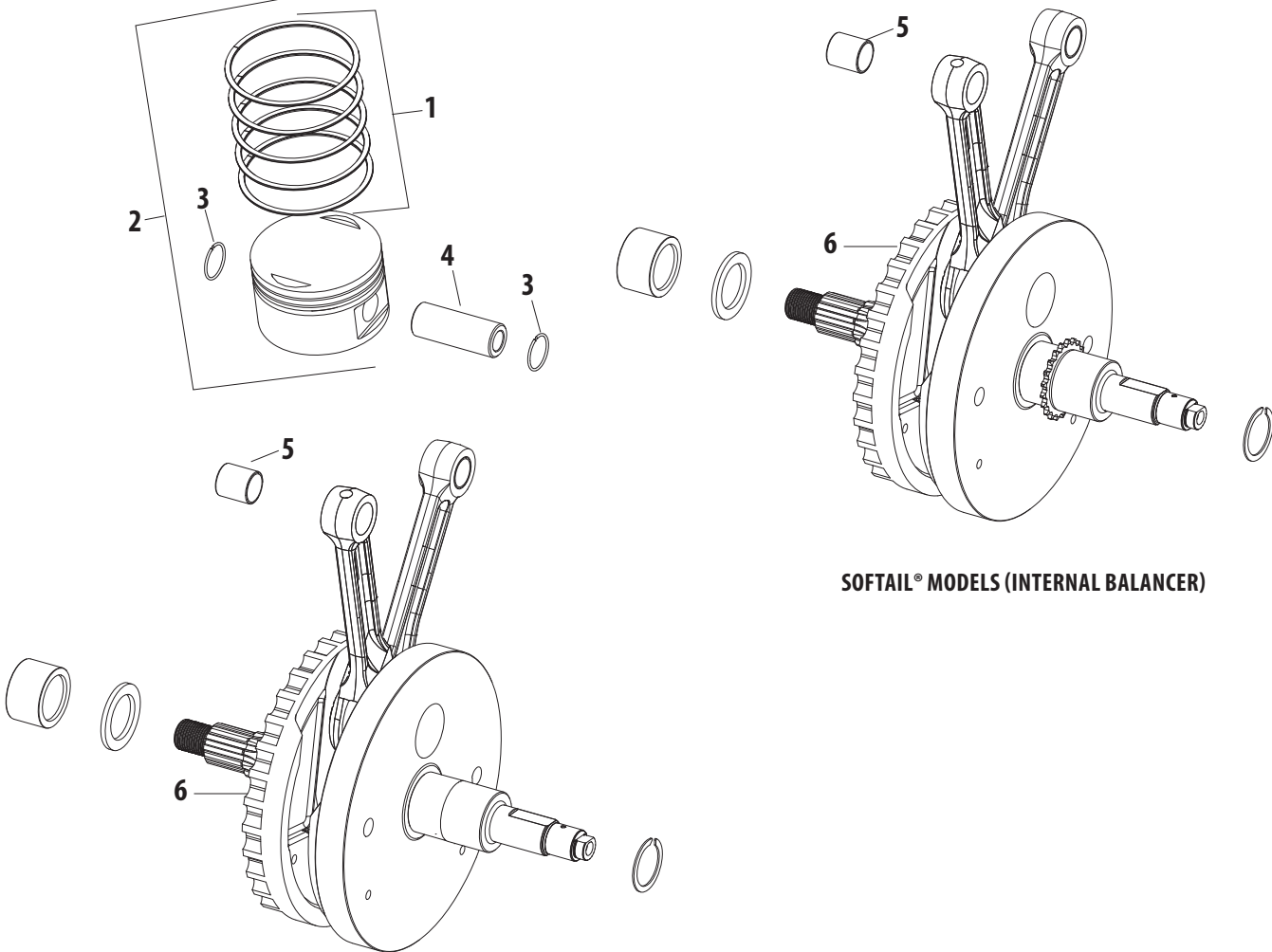
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SOFTAIL® MODELS (INTERNAL BALANCER)



TOURING AND DYNA® MODELS



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ALL CRANKCASES & ENGINE OIL FILTER FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

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#	Description	H-D® Part No.	VVT Part No.
1	Plug, Pipe, 3/4 Taper, 1/4-18 NPTF x .460", Zinc, Steel	765	50-8330
2	Screw, 5/16-18 x 3.0 hex flange hd. (Grade 5) (9)	895	—
3	Washer, .261" x .474" x .050", Annealed, Stainless Steel (3)	6099	50-7020
4	Washer, 1-1/4 x 1-53/64 x 1/8	8972	—
5	Bearing, Assembly, Inner, Needle, Cam, .875" x 1.125" x .500", 1999-2006 bt except 2006 Dyna® (2)	9198	31-4080
6	O-ring, (-014), .500" ID x .625" OD, Nitrile (2) 10 Pack	11140	50-8130
7	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) each	11273	50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) 10 Pack		50-8078
8	O-ring, (-209), .687" ID x .937" OD, Viton® (2) each	11293	50-8039
	O-ring, (-209), .687" ID x .937" OD, Viton® (2) 5 Pack		50-8200
9	Seal, Left, Main Bearing, 1999-up bt	12068	31-4035
10	Pin, Dowel, .557" x .500", Steel (2) each	16574-99A	50-8023
	Pin, Dowel, .557" x .500", Steel (2) 10 Pack		50-8109
11	Pin, Dowel, .275" x .397", Steel (2)	16589-99A	50-8148-S
12	Pin, Dowel, .437" x .610", Steel (4)	16595-99A	50-8177
13	Jet, Assembly, Piston Cooling, 1999-up bt (2) NOTE: The S&S Piston Oiler is billet aluminum	22371-99, 22307-99	31-2025B
14	Spacer, sprocket shaft 1999-'02 bt	24008-99	—
	Spacer, sprocket shaft 2003-up bt	24008-03	—
15	Set of Crankcases (silver)	24654-06B, 24596-99C	—
	Set of Crankcases (black)	24621-06B, 24597-99C	—
16	Bearing, Assembly, Left, Main Timken®	9028	31-4013
17	Bearing, Right, Main, Large O.D., 2000-'06 Bal bt, 2003-'06 NB bt	24623-99B	—
	Bearing, Right, Main, Small O.D., 2000-'06 Bal bt, 2003-'06 NB bt (2)	24604-00D	31-4085
	Bearing, main (2)	24605-07	—
18	Oil Filter Mount Kit, with lockplate kit, adaptor & o-rings (black) See chart for compatible Oil Filter Mount Assembly	26261-99	—
	Oil Filter Mount Kit, with lockplate kit, adaptor & o-rings (silver) See chart for compatible Oil Filter Mount Assembly	26274-99	—
19	Fitting, straight (3)	25259-93A	—
	Fitting, straight (3)	26314-99	—
20	Adaptor, oil filter, Fitting, Straight, 3/4-16 UNF 2A x 1", Steel each	26352-95A	50-8197-S
	Adaptor, oil filter, Fitting, Straight, 3/4-16 UNF 2A x 1", Steel 5 Pack		106-0618
21	O-ring, (-015), .562" ID x .068" OD, Black, Viton® (2)	26432-76A	50-8034-S
22	Lockplate kit, with screws, o-rings and washers (Not Shown)	35071-99A	—
23	Retaining Ring, Internal, 2.731" x .031" x .158", Steel, SAE 1070-1090(2)	35114-02	50-8160-S
24	Filter, Oil, 10 Micron Rating, Chrome each	63798-99A	31-4104
	Filter, Oil, 10 Micron Rating, Chrome 12 Pack		310-0242
	Filter, Oil, 10 Micron Rating, Black each		31-4103
	Filter, Oil, 10 Micron Rating, Black 12 Pack		310-0241
25	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel(4)	68042-99	50-0054-S
26	Spacer, Left, Main Bearing, .090"	9110	—
	Spacer, Left, Main Bearing, .092"	9120	—
	Spacer, Left, Main Bearing, .094"	9121	—
	Spacer, Left, Main Bearing, .096"	9122	—
	Spacer, Left, Main Bearing, .098"	9123	—
	Spacer, Left, Main Bearing, .100", Steel, 1969-'99 bt	9124	31-4071
	Spacer, Left, Main Bearing, .102", Steel, 1969-'99 bt	9125	31-4072
	Spacer, Left, Main Bearing, .104", Steel, 1969-'99 bt	9126	31-4073
	Spacer, Left, Main Bearing, .106", Steel, 1969-'99 bt	9127	31-4074
	Spacer, Left, Main Bearing, .108", Steel, 1969-'99 bt	9128	31-4075
	Spacer, Left, Main Bearing, .110"	9129	—
	Spacer, Left, Main Bearing, .112"	9130	—
	Spacer, Left, Main Bearing, .114"	9131	—
	Spacer, Left, Main Bearing, .116"	9132	—
	Spacer, Left, Main Bearing, .118"	9133	—
	Spacer, Left, Main Bearing, .120", Steel, 1969-'99 bt	9134	31-4076
27	Jet, Kit, Piston Cooling, 4-1/8" 1984-'99 bt, 1999-up bt, 2 Pack NOTE: The S&S Piston Oiler is billet aluminum	22371-99, 22307-99	31-2026
28	Bearing Kit, w/#s 4, 17 & inner race (not shown)	24004-03A	—
29	Crankcase, Assembly, Silver, 1999-2006 except 2006 Dyna® See chart for compatible Crankcase Assembly	24596-99A	—
	Crankcase, Assembly, Wrinkle Black, 1999-2006 except 2006 Dyna® See chart for compatible Crankcase Assemb	24597-99A	—



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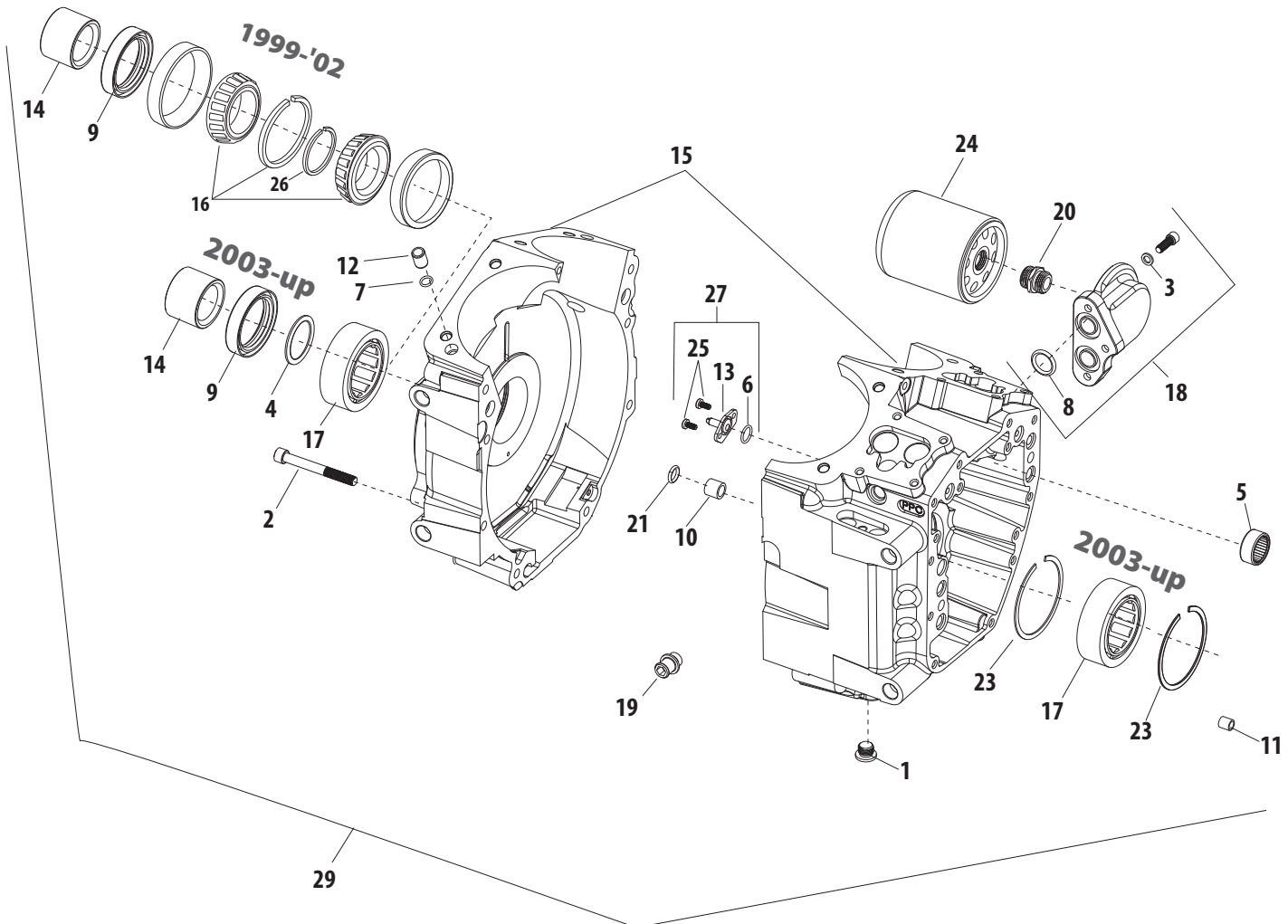
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NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
18	Oil Filter Mount Assembly, Polished, 1999-'06 bt (except '06 Dyna® models)	31-6510
	Oil Filter Mount Assembly, Chrome, 1999-'06 bt (except '06 Dyna® models)	106-3884
29	Crankcase, Assembly, Stock Bore, bt, Alternator, Packaged, Silver, 1999-2006 except 2006 Dyna® (Requires oil line and designed for S&S Oil Pumps)	106-4039
	Crankcase, Assembly, Stock Bore, bt, Alternator, Packaged, Wrinkle Black, 1999-2006 except 2006 Dyna® (Requires oil line and designed for S&S Oil Pumps)	31-0172
	Installation Kit, Oil Supply Line, 1999-'05 Dyna®	31-0424
	Installation Kit, Oil Supply Line, Crankcase, 1999-2006 FLT	31-0425

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CAMSHAFTS AND CAM COVER FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Roll Pin	601	—
2	Plug, Cam Support Plate	3290	—
3	Screw, 1/4-20 x 1-1/4 knurled socket hd. (w/lockpatch) (10)	4740A	—
4	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A (2)	4741A	50-0092-S
5	Bearing, Outer, Ball, Cam, .7874" x 1.6535" x .4724"(2)	8990A	31-4081
	Bearing, Roller, w/race and o-ring	8983	—
6	Retaining Ring (2)	11031	—
7	O-ring	11286	—
8	O-ring, (-209), .687" ID x .937" OD, Viton® each		50-8039
	O-ring, (-209), .687" ID x .937" OD, Viton® 5 Pack	11293	50-8200
	O-ring, (-209), .687" ID x .937" OD, Viton® 10 Pack		93-4110
9	O-ring, Viton®	11298	—
10	O-ring, (-110), .375" ID x .562" OD, Viton® (2) each		50-8066-S
	O-ring, (-110), .375" ID x .562" OD, Viton® (2) 10 Pack	11301	50-8066
11	Retaining Ring, External, Tru-arc, .722" x .042", Steel, SAE 1060-1090	11494	50-8061
12	Gasket Kit, cam service (Not Shown)	17045-99	—
13	Cam Support Assembly, w/ 25344-99 bushing only	24607-00	—
	Cam Support Assembly, w/ 25336-00, camshafts & 25607-99	24598-00	—
	Cam Support Assembly, w/ 25336-00, camshafts & 25607-99	24606-00	—
	Cam Support Assembly, w/bearings, retaining plate, tensioners & bypass valve	25336-00	—
14	Bushing, Crankshaft	25344-99	—
15	Gasket, Gearcover, Black, Paper, 1999-up bt each		31-2032-S
	Gasket, Gearcover, Black, Paper, 1999-up bt 10 Pack	25244-99A	31-2063
16	Cam Cover, chrome See chart for complete Cam Cover assembly	25247-99	—
	Cam Cover, polished See chart for complete Cam Cover assembly	26319-99	—
17	Camshaft, Front (Stamped B)	25296-99	—
	Camshaft, Front (Stamped A)	25534-99	—
18	Camshaft, Rear (Stamped B)	25297-00	—
	Camshaft, Rear (Stamped A)	25544-00	—
19	Cam Drive Sprocket Retention Kit, Includes Two Screws & Washers	25533-99	—
20	Spacer, Cam Drive Sprocket Alignment 0.270" Thick (Use As Required)	25717-99	—
	Spacer, Cam Drive Sprocket Alignment 0.260" Thick (Use As Required)	25719-99	—
	Spacer, Cam Drive Sprocket Alignment 0.250" Thick (Use As Required)	25721-99	—
	Spacer, Cam Drive Sprocket Alignment 0.230" Thick (Use As Required)	25722-99	—
	Spacer, Cam Drive Sprocket Alignment 0.240" Thick (Use As Required)	25723-99	—
21	Sprocket, Cam Drive - 34 Tooth	25716-99	—
22	Chain, Secondary Cam Drive	25607-99	—
23	Sprocket, Cam Drive On Crankshaft - 17 Tooth	25609-99	—
24	Chain, Primary Cam Drive	25610-99	—
25	Oil Pump Assembly, w/ body, both gerotor assemblies and separator plate	26035-99A	—
26	Spring, Relief Valve	26210-99	—
27	Valve, Pressure Relief, Oil Pump	26400-82	31-6082
28	Gerotor Assembly, Pressure	26464-99	—
29	Gerotor Assembly, Scavenge	26255-00	—
30	Separator Plate, Gerotor (2)	26248-00	—
31	Cam Position Sensor Cover	32543-99	—
32	Plate, Bearing Retaining	35060-00	—
33	Chain Tensioner, Primary Cam Drive Chain	39954-99	—
34	Chain Tensioner, Secondary Cam Drive Chain	39964-99	—
35	Chain Guide	39965-99	—
36	Spring Separator	40323-00	—
37	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel (9)	68042-99	50-0054-S
38	Bearing, Assembly, Inner, Needle, Cam, .875" x 1.125" x .500", 1999-2006 bt except 2006 Dyna® (2) each	9198	31-4080
	Bearing, Inner, Needle, Cam, 1.0" x 1.25" x .50", 2006 Dyna® models (2) each	9215	31-4199-S

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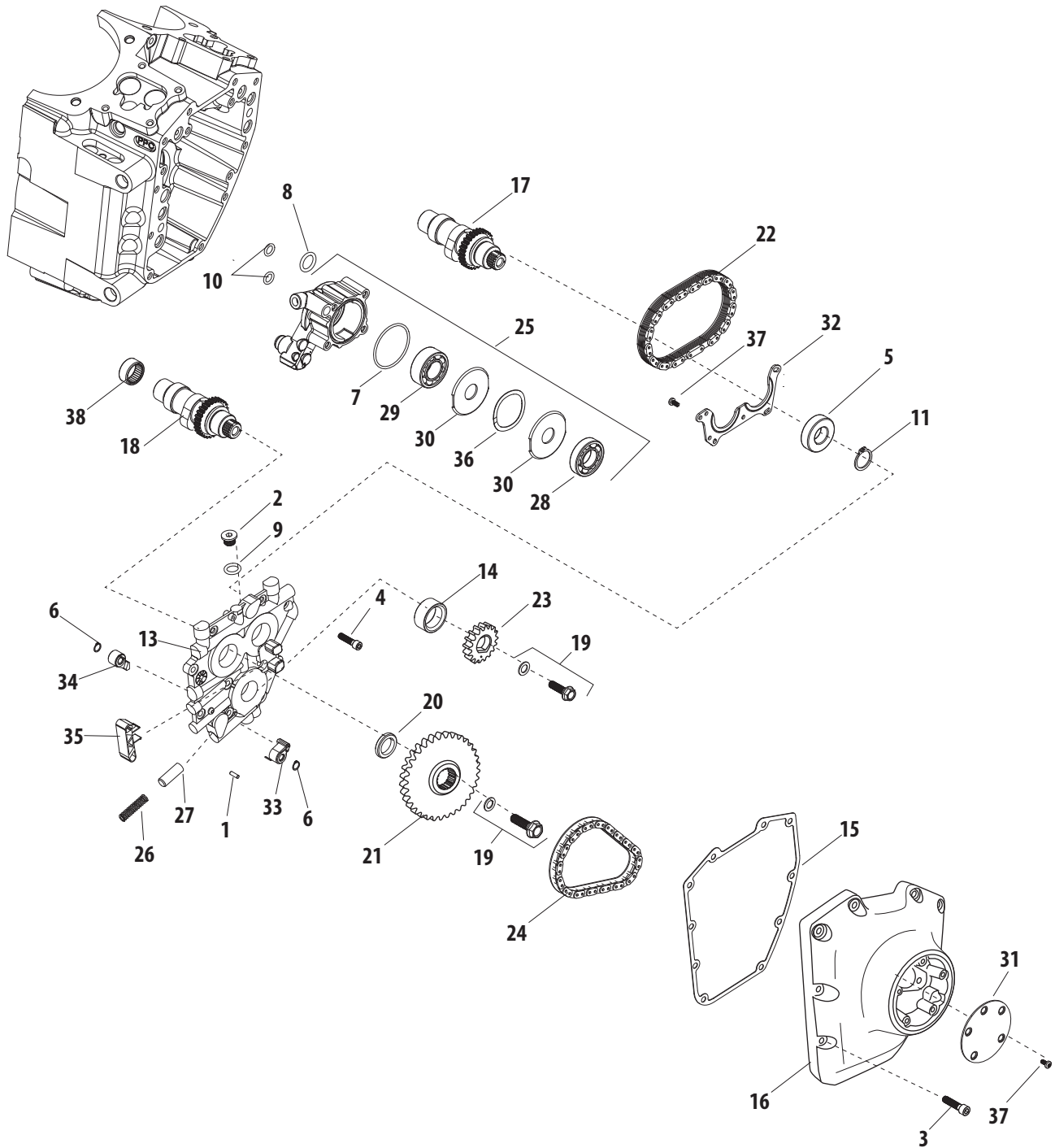
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#	Description	VVT Part No.
16	Cover, Cam Chest, Billet 6061, 1999-up bt, Polished (Hardware and gasket included)	31-6516
	Cover, Cam Chest, Billet 6061, 1999-up bt, Chrome (Hardware and gasket included)	106-3774

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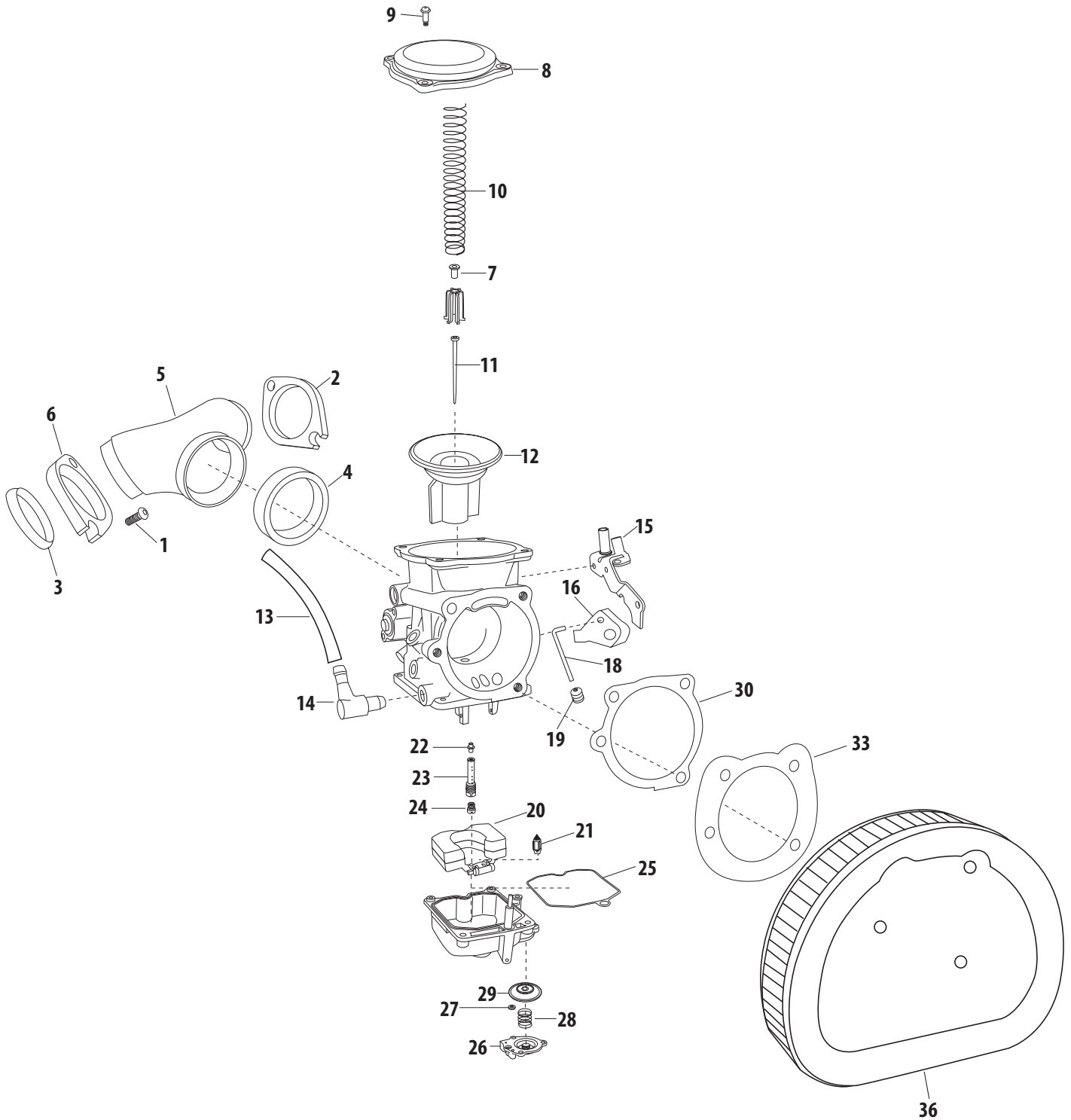
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#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>each</i>	3275	50-0302-S
	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A (4) <i>10 Pack</i>		50-0302
2	Flange, Front, Manifold, 1984-2005 bt	27009-86A	16-0232
3	Seal, Intake, Stock Heads, 1984-up bt (2) <i>each</i>	26995-86B	16-0236
	Seal, Intake, Stock Heads, 1984-up bt (2) <i>10 Pack</i>		16-0244
4	U-ring, Manifold, 40mm Stock CV/42mm Mikuni®	27002-89	16-0242
5	Manifold, CV Carb, S&S® Ports, 1-7/8", #410, Natural, 1999-up bt Port ID is 1.780", stock is 1.625". Requires S&S Seals #16-0235	27613-99	16-1722
6	Flange, Rear, Manifold, 1984-2005 bt <i>each</i>	27010-86A	16-0233
	Flange, Rear, Manifold, 1984-2005 bt <i>10 Pack</i>		16-0601
7	Collar	27263-96	—
8	Top, Carburetor	27261-96	—
9	Screw, Top (3)	27262-96	—
10	Spring	27162-89	—
11	Jet Needle <i>See chart for complete Jet Kit</i>	27406-00	—
12	Vacuum Piston	27585-88	—
13	Fuel Hose, Preformed	61911-95	—
14	Fitting	27371-76	—
15	Bracket, Throttle Cables	27340-90	—
16	Lever	27126-89	—
17	Slow Jet (Not Shown)	27170-89	—
18	Rod	27156-89	—
19	Boot, Accelerator Pump	27311-76	—
20	Float	27576-92	—
21	Valve, with Clip	27886-78A	—
22	Needle Jet <i>See chart for complete Jet Kit</i>	27100-88	—
23	Needle Jet Holder <i>See chart for complete Jet Kit</i>	27101-88	—
24	Main Jet 1.90mm <i>See chart for complete Jet Kit</i>	27243-95	—
25	O-Ring, Float Chamber	27577-92	—
26	Pump Housing	27260-00	—
27	O-Ring	27360-76	—
28	Spring, Diaphragm	27362-76	—
29	Diaphragm, Accelerator Pump	27361-76	—
30	Gasket, Backplate, Carburetor to Backplate	29062-95B	—
31	O-Ring (2) (Not Shown)	11292	—
32	Backplate Assembly (Not Shown)	29454-99	—
33	Gasket, Filter Element	29313-95	—
34	Screw, Breather (2) (Not Shown)	29465-99	—
35	Breather Tube (2) (Not Shown)	29476-99	—
36	Filter, Air, Carb/EFI, 2001-'08 Softail® EFI, 2002-'07 bt	29461-99	106-4630
	Filter, Air, 1999-2001 bt EFI	29462-99	106-4631

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
11, 22, 23, 24	Jet, Kit, CV Carb*, 1999-2006 bt (<i>Assorted popular jets, needles and emulsion tubes</i>) For more info, see S&S instruction sheet #51-1177	11-5203
	Jet, Kit, CV Carb*, 1990-1999 bt (<i>Assorted popular jets, needles and emulsion tubes</i>) For more info, see S&S instruction sheet #51-1177	11-5202

* Not legal for sale or use on CA or EPA pollution controlled vehicles.



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INDUCTION MODULE AND AIR FILTER FOR 1999-2005 HARLEY-DAVIDSON® BIG TWINS

1999 - 2001 EFI Touring

#	Description	H-D® Part No.	VVT Part No.
1	Screw, 5/16-18 x 1-1/4 knurled soc. Hd. (2)	3201WA	—
2	Bolt, 5/16-18 x 3/4 hex. Hd.(Grade 5 steel) (2)	3987	—
3	Retaining Ring (2)	11150	—
4	O-Ring, Kit, Magneti Marelli® <i>Includes various O-Rings and Retaining Rings</i>	17043-95	55-5020
5	Seal, Intake, Stock Heads, 1984-up bt (2)	26992-99, 26995-86A	16-0236
6	Flange, Front, Manifold, 1984-2005 bt	27009-86A	16-0232
	Flange, Rear, Manifold, 1984-2005 bt	27010-86A	16-0233
7	Induction Module Assembly, Complete	27202-99	—
8	Screw, Idle Speed Control (2) (Not Shown)	27217-95A	—
9	Fuel Injector (2)	27135-97	—
10	Regulator Kit, Fuel Pressure, w/O-Rings	27219-95A	—
11	Tube, Fuel Inlet, 45° Bend, 5/16" x .028", Stainless Steel (2)	27221-95	50-0485
12	O-Ring, Upper, (-109), .299" ID x .500" OD, Viton® (2) <i>each</i>	27237-95	50-8137-S
13	O-Ring, Center, (-111), .424" ID x .625" OD, Viton® (2) <i>each</i>	27244-95	50-8136-S
14	Sensor, Kit, Temperature, Intake Air	27270-95	55-5041
15	Sensor, Kit, Throttle Position, VFI	27271-95	55-5058
16	Motor, Idle Air Control, EFI, w/Screws, Lever, Spacer, Lockwasher, Throttle Shaft Nut, Idle Speed Stepper Motor & Idle Speed Adjustment Screw	27272-95A	—
17	Cam Lever Kit (Not Shown)	27593-98	—
18	Clamp Plate Kit, Fuel Pressure Regulator, w/both Plates and Nut	27282-95	—
	Cap, Induction Module (Not Illustrated, Plugs Stand Tube Near Air Intake)	90383-98	—
19	Filter, Air, Packaged, 1999-2001 EFI	29462-99	106-4631

2001 EFI Softail® and 2002-2005 EFI big twins

#	Description	H-D® Part No.	VVT Part No.
20	Screw, 5/16-18 x 3/4 Hex Socket Head Cap (4) <i>See chart for compatible Screw</i>	3275	—
21	Seal, Manifold Air Pressure Sensor	11291	—
22	Seal, Intake, Stock Heads, 1984-up bt (2)	26995-86B	16-0236
23	Flange, Front, Manifold, 1984-2005 bt	27009-86A	16-0232
	Flange, Rear, Manifold, 1984-2005 bt	27010-86A	16-0233
24	Sensor, Kit, Temperature, Intake Air	27270-95	55-5041
25	Induction Module Assembly, Complete	27600-01	—
26	Throttle Body Assembly, w/ Idle Screw	27603-01	—
27	Throttle Housing, Stop	27604-01	—
28	Fuel Rail	27608-01	—
29	Injector, Fuel (2)	27609-01	—
30	Tube, Fuel Supply 35° bend <i>See chart for compatible Fuel Supply Tube</i>	27612-01	—
31	Motor, Kit, Idle Air Control, EFI w/ Two Screws, O-Ring & Idle Control	27628-01A	55-5085
32	Throttle Kit, Position Sensor w/ Two Screws & Sensor Throttle	27629-01	—
33	Manifold Intake	27630-01	—
34	Screw, Torx, M4 x 12mm, Zinc, Steel		50-0358-S
35	Clamp, Fuel Tube, Plated		50-0391-S
36	O-ring, (-109), .299" ID x .500" OD, Viton® <i>each</i>		50-8137-S
	O-ring, (-109), .299" ID x .500" OD, Viton® <i>10 Pack</i>		50-1055
37	O-ring, .290" ID x .570" OD, Black		50-8264-S
38	Sensor, MAP, IST® with Seal	32316-99	55-5057
39	Sensor, MAP, IST® without Seal	32424-98	—
40	O-Ring (2) (Not Shown)	11292	—
41	Gasket, Backplate, Throttlebody to Backplate (Not Shown)	29583-01	—
42	Gasket, Filter Element	29313-95	—
43	Backplate Assembly (Not Shown)	29454-99	—
44	Filter, Air, Carb/EFI, 2001-'08 Softail® EFI, 2002-'07 bt	29461-99	106-4630
45	Screw, Breather (2) (Not Shown)	29465-99	—
46	Breather Tube (2) (Not Shown)	29476-99	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
20	Screw, SHC, 5/16-18 x 1", Zinc, ASTM A574-92A	50-0101
30	Tube, Fuel Inlet, 45° Bend, 5/16" x .028", Stainless Steel	50-0485

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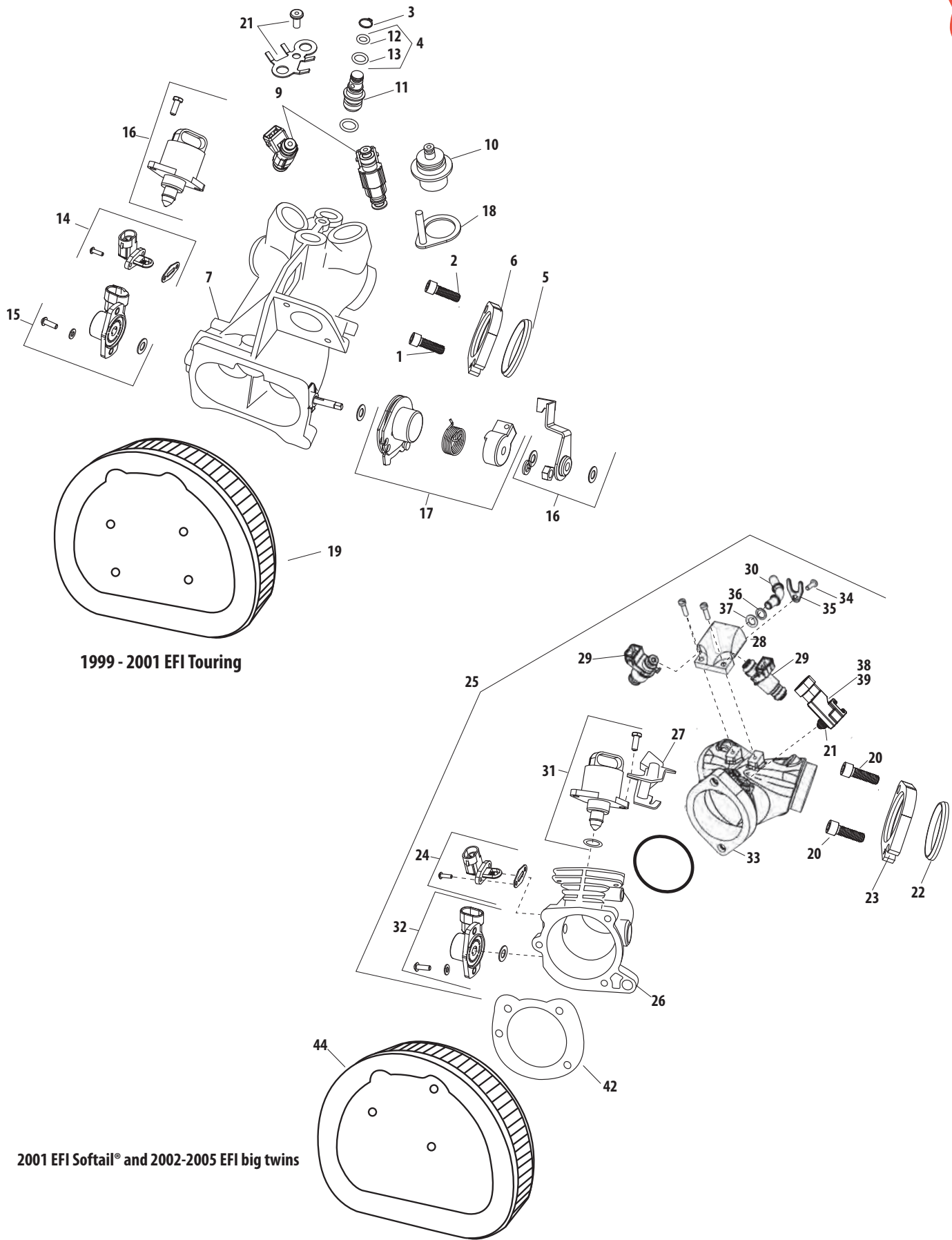
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Note: VVT parts cross referenced to stock OEM parts are functionally identical, but may differ slightly in appearance. Line drawings are a typical representation and may not be an exact match. Please confirm the required stock part number for intended application before ordering. All reference to H-D® part numbers are for identification purposes only. We are in no way implying that any of the VVT products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.

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IGNITION MODULE AND COIL FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

Coil

#	Description	H-D® Part No.	VVT Part No.
1	Bolt, 1/4-20 X 1-1/4 hex hd. (Grade 5) (2)	3993	—
2	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", <i>10 Pack</i>		50-0154
3	Cable Strap (2) (Not Shown)	10065	—
4	Clip, Double (Not Shown)	10113	—
5	Clip Single (Not Shown)	10114	—
6	Anchor, T-Stud (Not Shown)	10136	—
7	Ignition Coil, Dual, FLT	31639-99	—
	Ignition Coil, Dual, Softail®	31655-99	—
8	Nut Plate	31727-85	—
9	Spark Plug Cable, Front & Rear Cylinder (2)	31992-99	—
10	Spark Plug, Resistor, 12mm (2) Champion® Spark Plug RN12YC <i>each</i>	32317-86A	55-1320
	Spark Plug, Resistor, 12mm (2) Champion® Spark Plug RN12YC <i>2 Pack</i>		55-1322
11	Wiring Harness, Ignition (Not Shown)	32435-00	—
12	Ignition Module	32478-99	—
13	Ignition Coil, Crane Cams®	31655-99	8-3010

Electronic Control Module - Fuel Injected

#	Description	H-D® Part No.	VVT Part No.
14	Screw, 1/4-20 x 1-1/4 knurled hd. (Grade 8) (4)	3601	—
15	Screw, No. 10-32 x 1/2 self tapping (Not Shown)	3602A	—
16	Screw, 1/4-20 x 2-1/4 knurled socket hd. (w/lockpatch) (2)	4717A	—
17	Washer, 1/4 x 7/16 x 1/16 (4)	6099	—
	Washer, No. 10 x 1/2 x 3/64 (4)	6716	—
18	Nut, No. 10-32 x 3/8 keps (4)	7629	—
19	Cable Strap, with Plug-In Retainer (4) (Not Shown)	10177	—
20	Coil Cover Assembly, with Pad (Chrome) (Not Shown)	30202-01	—
21	Pad, Coil Cover (Not Shown)	31742-00	—
22	Ignition Coil, Dual	31743-01	—
23	Coil Cover Assembly, with Pad (Chrome) (Not Shown)	31772-01	—
	Coil Cover Assembly, with Pad (Black Wrinkle) (Not Shown)	31773-01	—
24	Spark Plug Cable, Front Cylinder	31981-99B	—
25	Spark Plug Cable, Rear Cylinder	31983-00B	—
26	Spark Plug, 6R12 (2) Champion® Spark Plug RN12YC <i>each</i>	32317-86A	55-1320
	Spark Plug, 6R12 (2) Champion® Spark Plug RN12YC <i>2 Pack</i>		55-1322
	Spark Plug (2) Champion® Spark Plug RN12YC <i>each</i>	32362-04	55-1320
	Spark Plug (2) Champion® Spark Plug RN12YC <i>2 Pack</i>		55-1322
27	Electronic Control Module W/Calibration <i>See chart for complete VFI Module Kit</i>	32612-01	—
	Electronic Control Module W/Calibration <i>See chart for complete VFI Module Kit</i>	32762-01	—
	Electronic Control Module, FLT/ST Base Level - DOM/HDI <i>See chart for complete VFI Module Kit</i>	32534-05	—
	Electronic Control Module, 2006 Dyna® Base Level <i>See chart for complete VFI Module Kit</i>	32534-05A	—
	Electronic Control Module (ECM), Base Level (Domestic, All HDI) Requires Digital Programming <i>See chart for complete VFI Module Kit</i>	32534-05B	—
	Electronic Control Module, Magnetti Marelli® (1995 1/2 - '01 Touring) w/Calibration	32423-99A	—
28	Electronic Control Module, EFI, 1450, Domestic <i>See chart for complete EFI Module Kit</i>	32423-99C	—
	Electronic Control Module, EFI, 1450, HDI <i>See chart for complete EFI Module Kit</i>	32476-99B	—
	Electronic Control Module, EFI, 1550, Domestic <i>See chart for complete EFI Module Kit</i>	32462-00	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, w/Calibration	32423-02	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, w/Calibration	32612-01A	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, w/Calibration	32762-01A	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, requires digital programming	32772-01	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, requires digital programming	32498-04	—
	Electronic Control Module, Delphi® 2001 - 2012 bt except 2008 Touring, requires digital programming	32534-05A	—
	29	Isolator, Control Module (4)	66110-97
30	Bracket, ECM Mounting (Not Shown)	66231-99	—
31	Nut (2) (Not Shown)	7716	—



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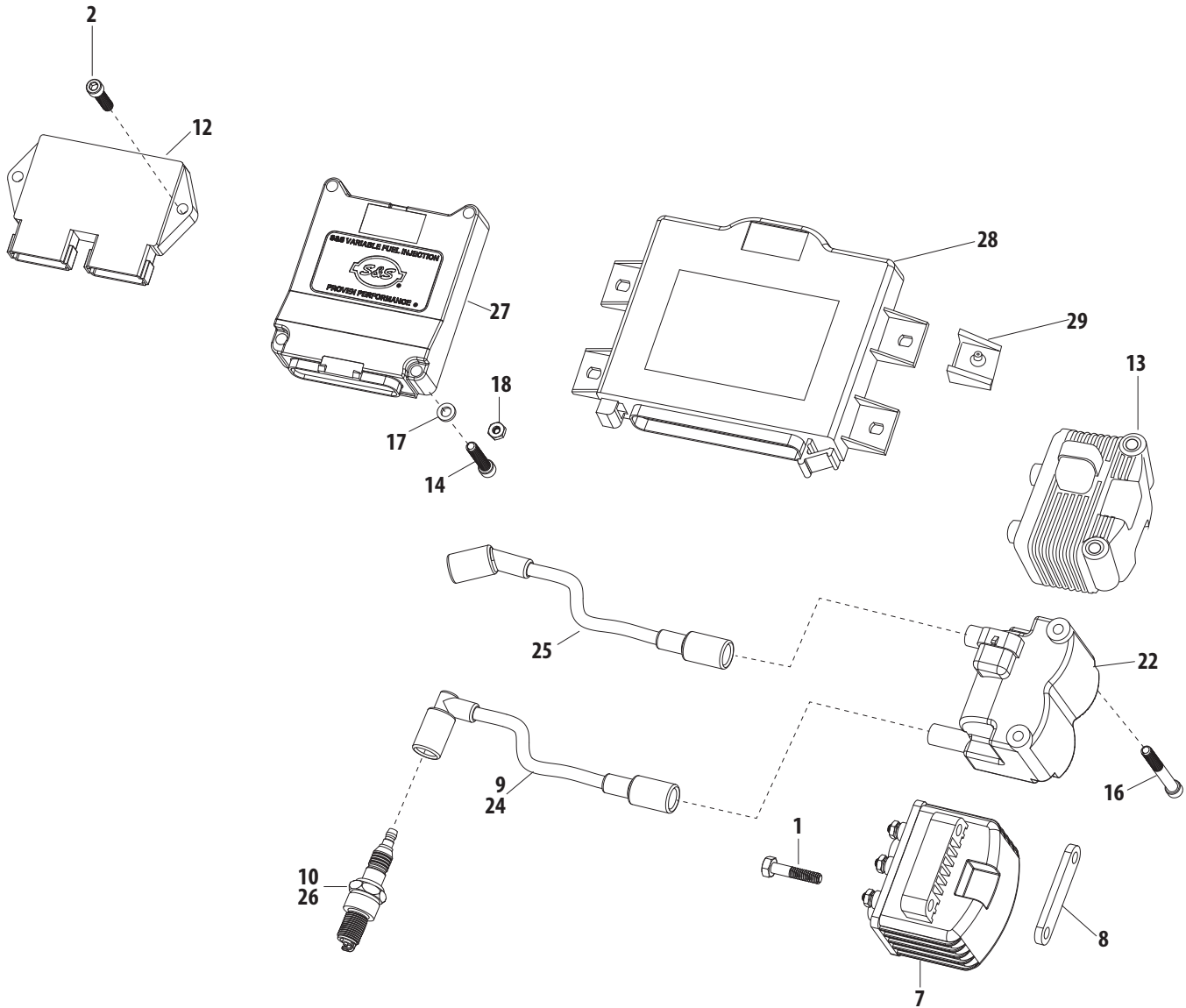
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#	Description	VVT Part No.
27	Module, Kit, VFI, Delphi®, Pro Tune II Software, 2001-up bt except 2008-up Touring with S&S Calibration Software*	55-5090
28	ECM, Kit, USB, Stock H-D®/Magneti Marelli® Replacement, Make to Order, 1995-1/2 - 2001 Touring with S&S Calibration Software	559-0001

* Not legal for sale or use on CA or EPA pollution controlled vehicles.

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ENGINE SENSORS FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, 1/4-20 x 5/8 knurled hd. (Grade 8)	3594	—
2	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", <i>10 Pack</i>		50-0154
3	Washer, 1/4 x 1/2 x 3/32	6239	—
4	O-ring	11288	—
5	O-ring	11289	—
6	Seal, Barometric Pressure Sensor	11291	—
7	Oil Pressure Switch	26561-99	—
8	Sensor, MAP, IST® with Seal	32316-99	55-5057
9	Sensor, Temperature, Cylinder Head, 4-1/8" 1984-'99 bt, 1999-up bt	32446-99	55-1014
10	Cam Position Sensor, with O-Ring and Terminal Pins	32793-00	—
11	Sensor, Crankshaft Position	32798-00	—
	Sensor, Kit, Crank Position, 1984-2007 bt, w/ 11289A, 72199-94, 74194-98, & pins <i>S&S wire length is 48", stock is ~12"</i>	32707-01C	55-1051
12	Clamp, Hold-Down, MAP Sensor	38723-99	16-5077-S
13	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel (2)	68042-99	50-0054-S



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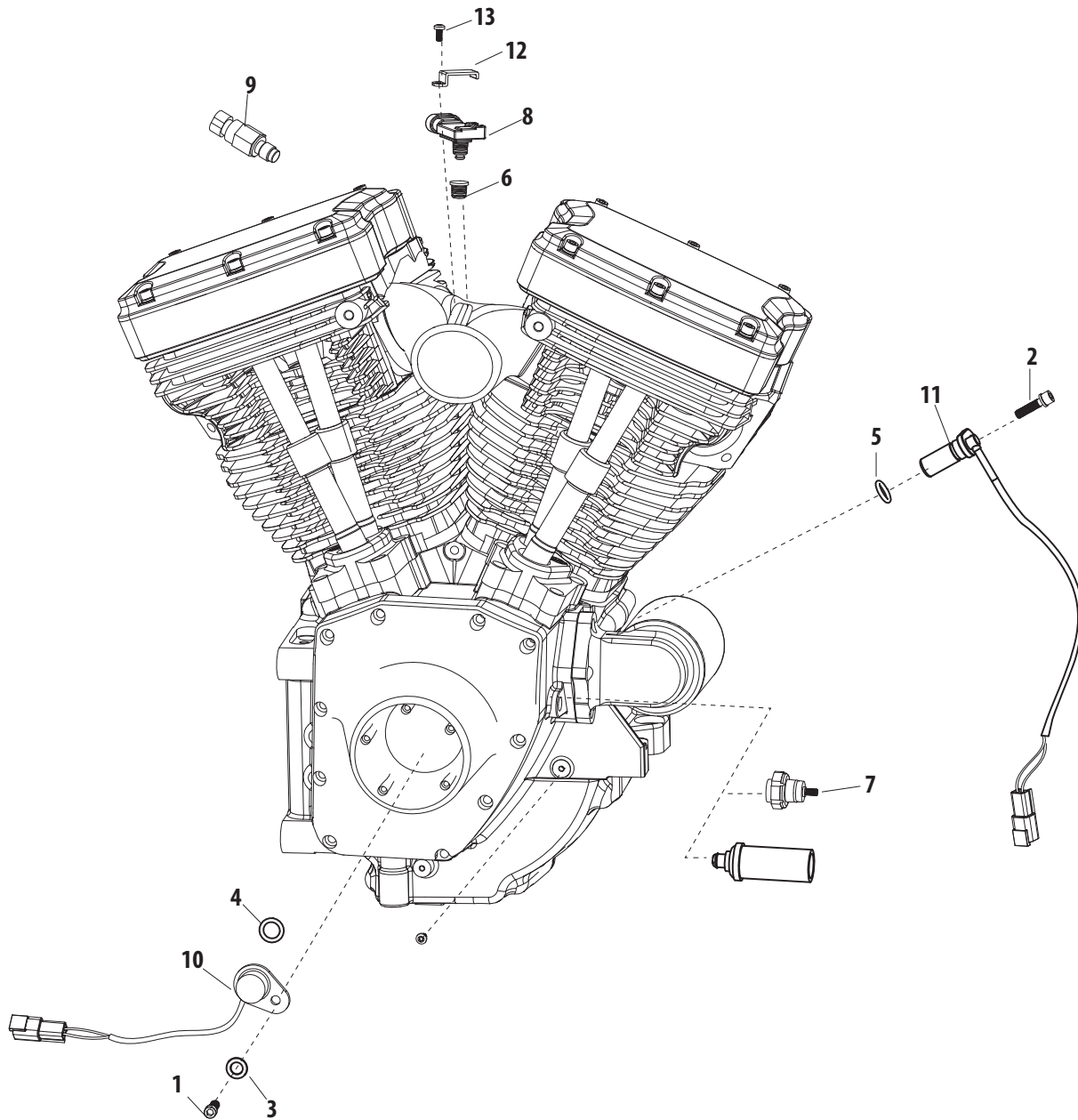
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GEAR SHIFTER FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Roll Pin	601	—
2	Pin, Roll, .392" x .320", Steel (4)	609	50-8173
3	Screw	856A	—
4	Screw	3594	—
5	Set Screw, Shift Fork Shaft - Left	3784	—
6	Bolt (4)	3908	—
7	Screw (2)	4069A	—
8	Spacer	5702	—
9	Washer, Flat, .344" x .688" x .065", Zinc, Steel (2)	6016	50-7034
10	Washer	6497HW	—
11	Lockwasher	7041	—
12	Nut, HH, 7/16-14 UNC-3B x .260", Zinc, Steel	7515	50-5044
13	Nut	7744	—
14	Needle Bearing	9114	—
15	Needle Bearing	9115	—
16	Retaining Ring	11016	—
17	Retaining Ring	11083	—
18	Retaining Ring	11150	—
19	Seal	12045	—
20	Screw, Shift Lever Adjust, 5 Speed, Black, bt	33119-79B	56-1002
21	Thrust Washer, 0.017 Thick (As Required)	33205-80	—
	Thrust Washer, 0.020 Thick (As Required)	33206-80	—
	Thrust Washer, 0.022 Thick (As Required)	33207-80	—
	Thrust Washer, 0.025 Thick (As Required)	33208-80	—
	Thrust Washer, 0.028 Thick (As Required)	33209-80	—
	Thrust Washer, 0.031 Thick (As Required)	33210-80	—
	Thrust Washer, 0.035 Thick (As Required)	33211-80	—
	Thrust Washer, 0.039 Thick (As Required)	33212-80	—
22	Shifter Cam	33320-98	—
23	Support, Shifter Cam - Left	33326-79A	—
24	Support, Shifter Cam - Right	33332-79	—
25	Shift Lever, Toe	33640-83	—
26	Shaft	33709-82	—
27	Bushing, Shifter Bracket (2)	33713-85A	—
28	Lever, Shifter Rod	33715-85A	—
29	Lever	33718-82	—
30	Shifter Rod	33759-99	—
31	Shift Lever, Heel	33895-82	—
32	Pin, Shifter Shaft Lever	34082-79	—
33	Spring, Shifter Shaft Lever	34083-79	—
34	Lever Assembly, Shifter Shaft w/#33 & 34	34084-86A	—
35	Cam Follower	34085-79A	—
36	Pawl, Shifter Cam	34086-79	—
37	Spring, Shifter Shaft	34087-79A	—
38	Shaft, Shifter Fork	34088-87	—
39	Spring	34089-79	—
40	Shifter Fork	34191-79E	—
41	Shifter Fork	34193-79E	—
42	Shifter Fork	34195-79E	—
43	Peg, Shift Lever (2)	34611-65	—
44	Plate	35068-79	—

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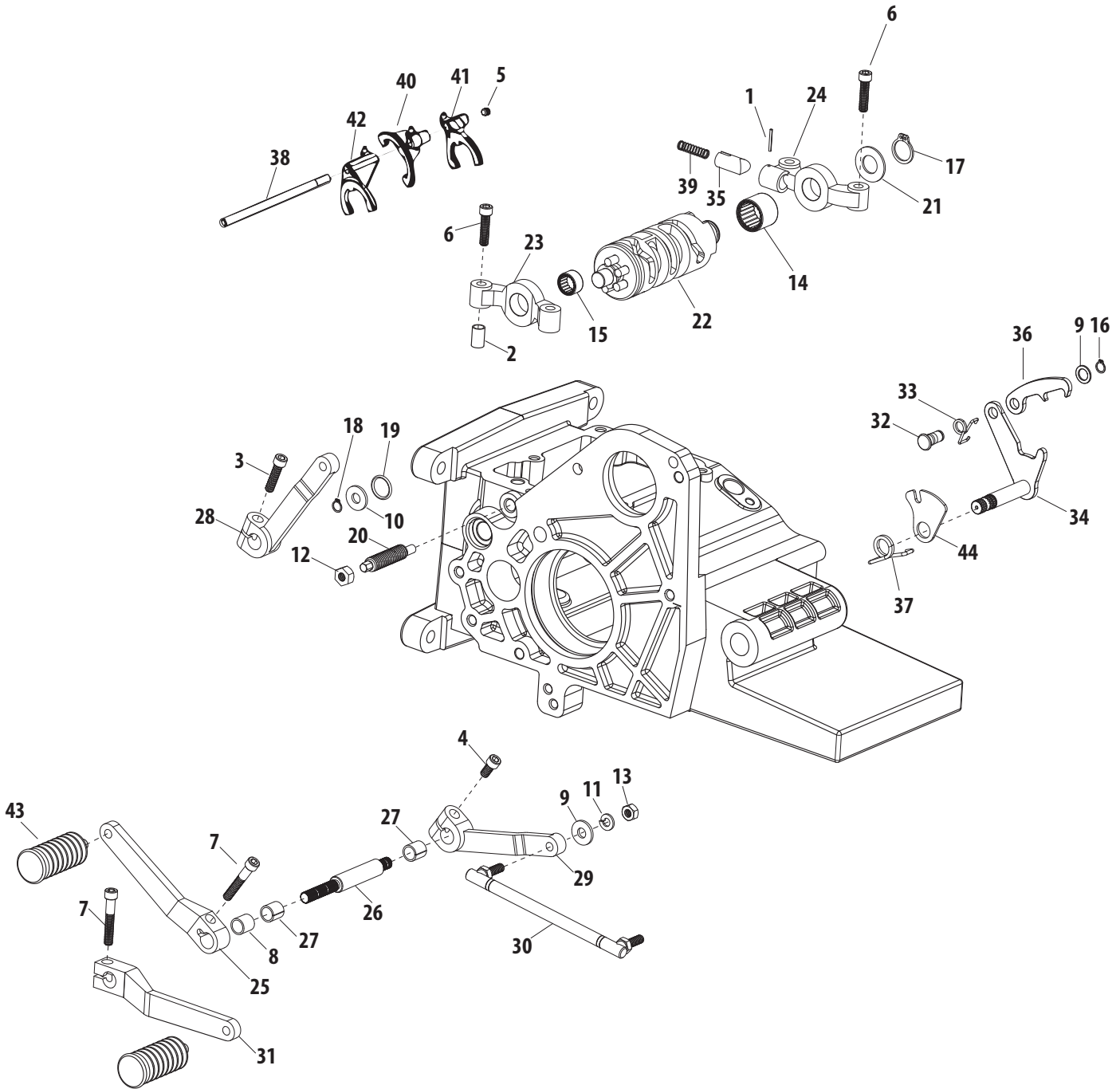
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#	Description	H-D® Part No.	VVT Part No.
1	Pin	375	—
2	Pin, Roll, .392" x .320", Steel (2)	609	50-8173
3	Pin, Roll, .328" x .760", Zinc, Steel <i>each</i>	634	50-8175
	Pin, Roll, .328" x .760", Zinc, Steel <i>10 Pack</i>		106-3175
4	Screw (4)	3210A	—
5	Screw (6)	4717A	—
6	Screw (4)	4740A	—
7	Screw (2)	4814A	—
8	Washer, Flat, .344" x .688" x .065", Zinc, Steel (4)	6016	50-7034
9	Ball, Check Valve, .375", Stainless Steel (3)	8866, 8873	50-8091
10	Bearing, Needle, Transmission Countershaft, 1984-'99 bt Left Hand	8977	56-3031
11	Bearing, Ball, Transmission Mainshaft, 10 Balls, 45mm x 85mm x 19mm	8996A	56-1280
12	Bearing, Ball, Transmission Countershaft, Left Hand, 20mm x 47mm x 14mm, 1991-'06 bt (2)	8992A	56-3026
13	Retaining Ring, Internal, HO-212	10998	50-8448-S
14	O-Ring, Filler Plug	11132	—
15	Retaining Ring, Internal, 3.734" x .109", Carbon Steel, SAE 1060-1090	11161	50-8051
16	O-ring, Quad Seal, (-031), 1.734" X 1.875", Black, Nitrile	11165	50-8045
17	O-Ring, Clutch Cable	11179	—
18	O-Ring, Neutral Indicator Switch	11290	—
19	Seal, Transmission Output Shaft, 2.255" x 3.388" x .250, 1994-'99 bt, 1995-'03 xl	12067B	56-3033
20	Inner Ramp	25604-00	—
21	Outer Ramp	25605-00	—
22	Guide, Shifter Shaft, 5 Speed Rigid Mount, 1986-'99 bt	33114-79	56-1067
23	Spacer, Sprocket	33344-94	—
24	Switch, Neutral Indicator, with O-Ring	33902-98	—
25	Transmission Cover, Upper (Polished)	34464-98	—
	Cover, Transmission Top, Chrome, Cast, 1991-2000 FLT (chrome)	34468-98A	56-5115
	Cover, Transmission Top, Chrome, Cast, 1991-'99 Softail®(chrome)	34541-00	56-5115
	Cover, Upper, Softail® (Black Wrinkle)	34544-00	—
	Cover, Upper, Softail® (Silver Painted)	34546-00	—
26	Gasket, Top Cover, Transmission, 1991-2006 Softail®, FLT	34904-86D	56-5107-S
27	Coupling	34920-86	—
28	Retaining Ring, Bearing (2)	35087-99	—
29	Bearing Housing Assembly, with Bearings & Retaining Rings (Silver) <i>See chart for complete Trap Door Assembly option</i>	35251-93C	—
	Bearing Housing Assembly, with Bearings & Retaining Rings (Black) <i>See chart for complete Trap Door Assembly option</i>	35252-93B	—
30	Spacer (2)	35076-79	—
31	Nut, Jam, HH, 3/4-16 UNF-2B, Steel/Nylon	35078-79	56-1278-S
32	Gasket, Bearing Housing	35653-98	—
33	Gasket, Right Side Cover	36801-87B	—
34	Dipstick (Polished)	37071-87	56-5132
	Dipstick (Chrome)	37075-87	56-5132
35	Clutch Release Cover (Polished) <i>See chart for complete Transmission Side Cover options</i>	37081-99	—
	Clutch Release Cover (Chrome) <i>See chart for complete Transmission Side Cover options</i>	37105-99	—
36	Vent Hose	42533-91A	—
37	Fitting, Upper Cover	62375-57	—
38	Bearing, Inner Race <i>See chart for Inner Race Bearing option</i>	34091-85	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) <i>Note: These products are compatible replacements as assemblies.</i>			
#	Description	VVT Part No.	
29	Trap Door, Transmission, 5 Speed Rigid Mount, w/ Starter Mounting Tab, Natural, Billet, 1999-'05 Dyna®, 1999-'06 Softail®	56-1025	
35	Cover, Transmission Side, Chrome Billet Aluminum, 1999-'06 bt, except FXR (except 2006 Dyna®) Cable Actuated	106-4035	
	Cover, Transmission Side, Chrome Billet Aluminum, 1999-'06 bt, except FXR (except 2006 Dyna®) Hydraulic Actuated	106-3885	
5	Race, Inner, Transmission Mainshaft, 5/6 Speed, <i>longer design to lock into mainshaft to prevent movement</i>	56-5089	



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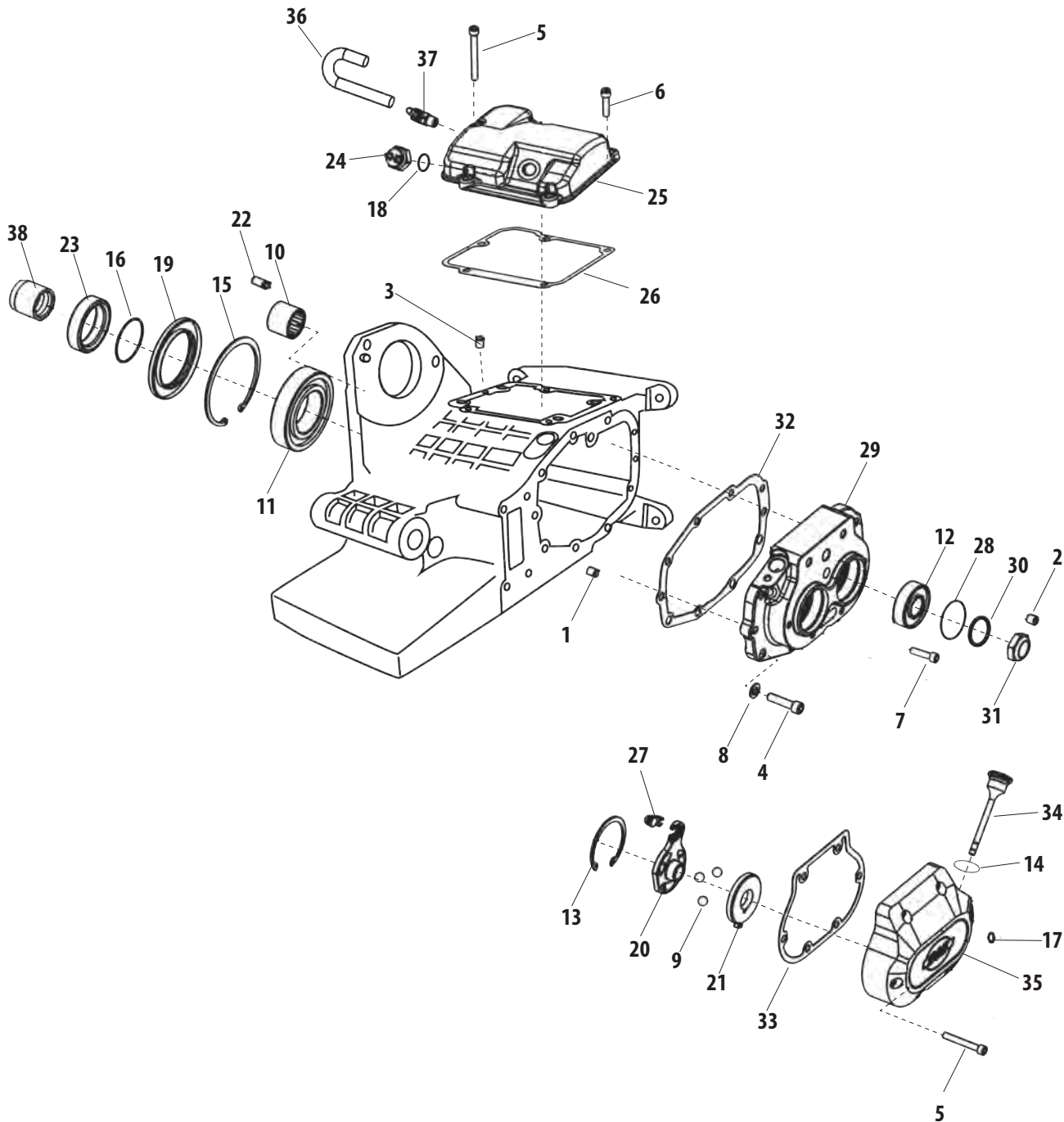
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TRANSMISSION HOUSING AND OIL TANK FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Dowel Pin	337	—
2	Plug	765	—
3	Screw	2941	—
4	Screw	3480A	—
5	Screw	3594	—
6	Bolt (4)	3699B	—
7	Screw (4)	4718A	—
8	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>each</i>	4741A	50-0092-S
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>4 Pack</i>		50-0092P
	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0154
9	Washer (4)	6448HB	—
10	Clamp, Hose (4)	10157	—
11	Clamp, Hose (2)	10198	—
12	O-Ring (2)	11105	—
13	O-Ring	11140	—
14	Elbow	16305-99	—
15	Dowel Ring (2)	16574-99	—
16	Gasket, Oil Pan	26077-99	—
17	Fitting, Straight (2)	26314-99	—
18	Transmission Housing (Silver)	34765-99	—
	Transmission Housing (Black)	34740-99	—
19	Transmission Asm., Complete (Chrome & Black)	33013-00	—
	Transmission Asm., Complete (Silver Painted & Polished)	33020-00	—
	Transmission Asm., Complete (Chrome & Black)	33035-00	—
20	Cover, Oil Lines (Silver)	37173-99	—
	Cover, Oil Lines (Black)	37174-99	—
21	Hose, Crankcase to Tank Vent	45795-99	—
22	Pipe Plug	45893-99	—
23	Plug, Magnetic (2)	60348-65B	—
24	Oil Filler Spout (Silver)	62419-99	—
	Oil Filler Spout (Black)	62429-99	—
25	Gasket, Oil Filler Spacer, Transmission	62432-93B	56-1599-S
26	Oil Pan (Black)	62489-99	—
	Oil Pan (Silver)	62490-99	—
27	Hose, Oil (2)	62726-99	—
28	Spring, Baffle (Not Shown)	62828-99	—
29	Baffle, Serpentine	62830-99	—
30	Filler Cap, Engine Oil (Black)	62846-99	—
	Filler Cap, Engine Oil (Silver)	62849-99	—
31	Secondary Lock, Three-Way Receptacle	72143-94	—
32	Receptacle, 3-Way Pin	72113-94RD	—
33	Terminal, Pin (3)	72190-94	—
34	Attachment Clip	73198-96	—
35	Speed Sensor, with O-Ring and Connector Assembly	74429-97	—

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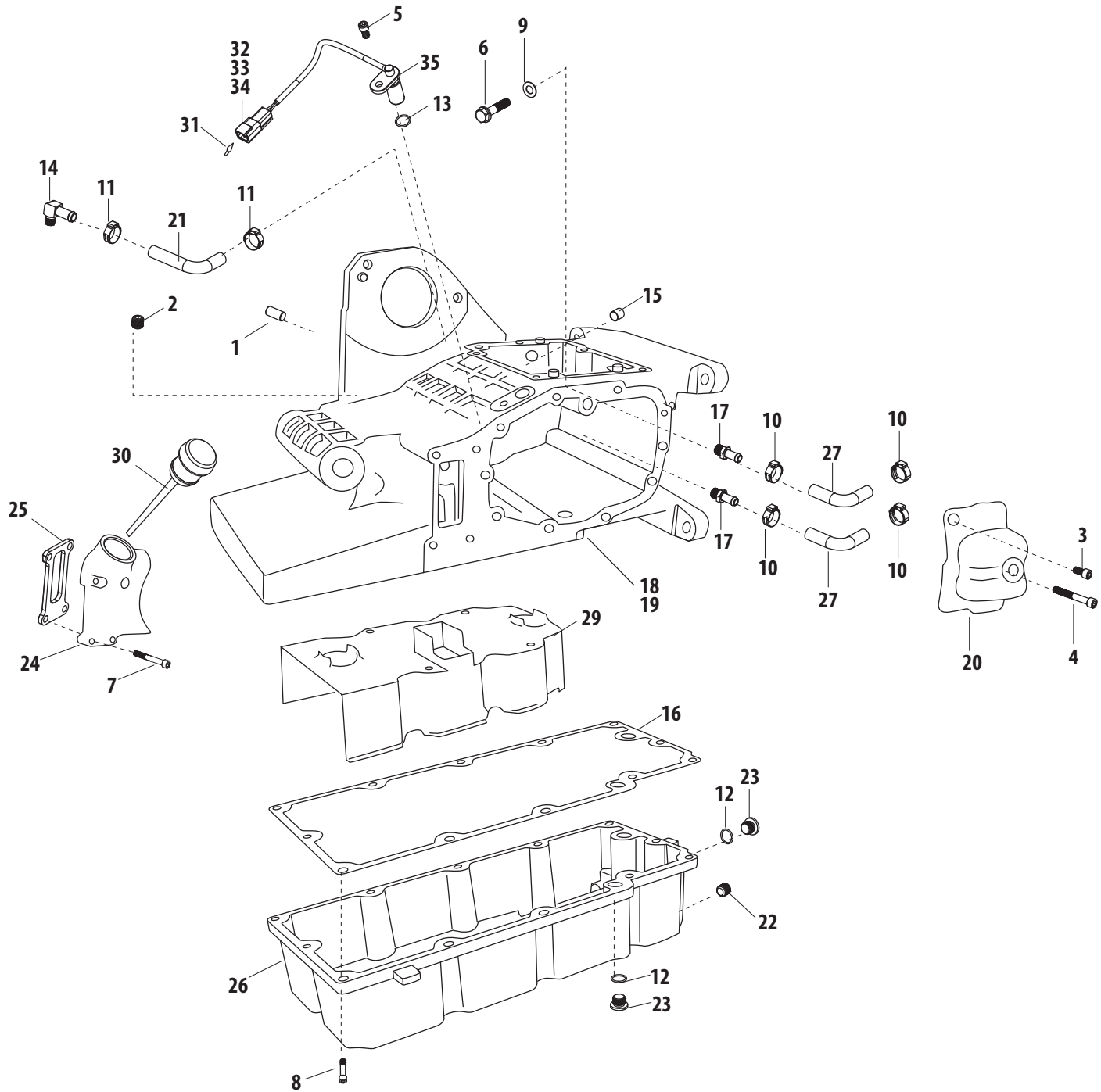
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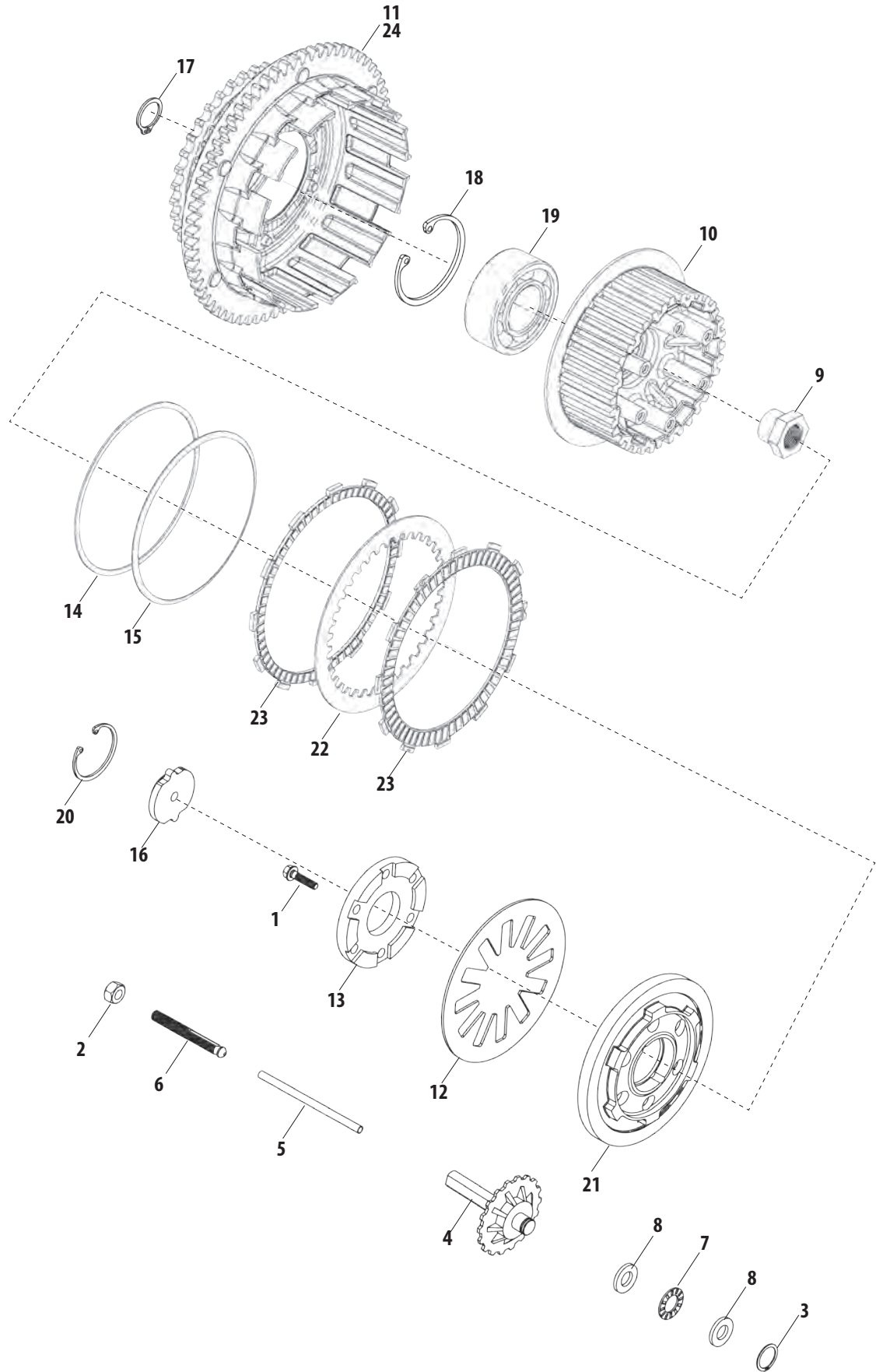
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CLUTCH FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

#	Description	H-D® Part No.	VVT Part No.
1	Screw (6)	2980	—
2	Locknut	7848W	—
3	Retaining Ring	11096	—
4	Pushrod End	37069-90	—
5	Pushrod, Clutch Release	37088-90	—
6	End, Pushrod - Left	37090-98A	—
7	Bearing, Pushrod	37312-75	—
8	Thrust Washer (2)	37313-80	—
9	Nut, Mainshaft	37496-90	—
10	Clutch Hub	37550-98	—
11	Clutch Shell & Sprocket, 36 Tooth w/Ring Gear, Bearing, & Retaining Ring	37707-98A	—
	Clutch Shell & Sprocket, 37 Tooth w/Ring Gear, Bearing, & Retaining Ring	37846-99A	—
12	Spring, Diaphragm	37871-98A	—
13	Retainer, Diaphragm Spring	37872-98	—
14	Seat, Damper Spring	37883-98	—
15	Damper Spring	37884-98	—
16	Release Plate	37903-90	—
17	Retaining Ring, Internal	37904-90	—
18	Retaining Ring, Internal	37905-00	—
19	Bearing, Ball - Double Row	37906-90	—
20	Retaining Ring, Internal	37909-90	—
21	Pressure Plate	37912-98	—
22	Steel Plate (8)	37913-98	—
23	Friction Plate Kit, Includes All Nine Friction Plates	37932-98	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
	Clutch, Kit, 36 Tooth Sprocket, Mechanical Actuation, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except '06 Dyna®	56-5150A
	Clutch, Kit, 37 Tooth Sprocket, Mechanical Actuation, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5151A
	Clutch, Kit, 36 Tooth Sprocket, Use w/ H-D® Hydraulic Actuator, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5152A
	Clutch, Kit, 37 Tooth Sprocket, Use w/ H-D® Hydraulic Actuator, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5153A



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BELTS, CHAINS AND SPROCKETS FOR 1999-2006 HARLEY-DAVIDSON® BIG TWINS

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#	Description	H-D® Part No.	VVT Part No.
1	Screw (2)	1783A	—
2	Bolt, 1/4-28 x 2 hex. hd. (Grade 5 steel) (2)	2614	—
3	Screw, 1/4-20 x 5/8 hex socket head cap (2)	3594	—
4	Bolt (5)	3899	—
5	Screw, 1/4 x 5/8 self-tapping (3) (Not Shown)	3892	—
6	Bolt, 3/8-16 x 1 (Grade 5 steel)	5444	—
7	Washer, 5/16 x 13/16 x 3132	6400HB	—
8	Washer, 7/16 x 1-1/8 x 1/8 (5)	6516HW	—
9	Washer, 1/4 x 5/8 x 1/16 (2)	6703	—
10	Locknut, 3/8-16 x 7/16 x 9/16 hex.	7778	—
11	Spacer, Sprocket Shaft - 0.020 Thick	35851-84	—
12	Spacer, Sprocket Shaft - 0.055 Thick	35853-96	—
	Spacer, Sprocket Shaft - 0.06 Thick (As Required)	24032-70	—
	Spacer, Sprocket Shaft - 0.09 Thick (As Required)	24033-70	—
	Spacer, Sprocket Shaft - 0.12 Thick (As Required)	24034-70	—
	Spacer, Sprocket Shaft - 0.15 Thick (As Required)	24035-70	—
	Spacer, Sprocket Shaft - 0.18 Thick (As Required)	24036-70	—
	Spacer, Sprocket Shaft - 0.21 Thick (As Required)	24037-70	—
	Spacer, Sprocket Shaft - 0.01 Thick (As Required)	35850-84	—
	Spacer, Sprocket Shaft - 0.02 Thick (As Required)	35851-84	—
	Spacer, Sprocket Shaft - 0.03 Thick (As Required)	35852-84	—
13	Nut, Sprocket	35211-91A	—
14	Pad, Chain Tensioner	39976-65B	—
15	Chain Tensioner	39990-65	—
16	Chain Tensioner MTG. Kit, w/#5, 6 & 8	39992-65C	—
17	Plate, Chain Tensioner	39993-65	—
18	Lockwasher, Chain Tensioner Plate	39996-65	—
19	Anchor Plate, Chain Tensioner	39998-65	—
20	Rear Belt - 139 T 1.5" See chart for options	40024-97	—
	Rear Belt - 136 T 1.5" See chart for options	40001-85	—
	Rear Belt - 126 T 1.5" See chart for options	40003-79	—
	Rear Belt - 128 T 1.5" See chart for options	40012-90	—
	Rear Belt - 133 T 1.125" See chart for options	40015-00	—
	Rear Belt - 133 T 1.5" See chart for options	40015-90	—
	Rear Belt - 130 T 1.5" See chart for options	40017-94	—
	Rear Belt - 128 T 1.125" See chart for options	40022-91	—
	Rear Belt - 132 T 1.5" See chart for options	40023-86	—
	Rear Belt - 139 T 1.125" See chart for options	40024-04	—
	Rear Belt - 125 T 1.125" See chart for options	40038-91	—
	Rear Belt - 130 T 1.125" See chart for options	40048-07	—
	Rear Belt - 135 T 1.125" See chart for options	40307-00	—
	Rear Belt - 132 T 1.125" See chart for options	40594-06	—
21	Primary Chain	40037-79A	—
22	Sprocket, Transmission, 32 T	40250-94	—
23	Sprocket, Rear, 70 T - (black)	40217-00	—
24	Lockplate	40251-92A	—
25	Shaft Extension	40266-85	—
26	Compensating Sprocket, 24 T	40269-85A	—
	Compensating Sprocket, 25 T	40308-94	—
27	Sliding Cam	40299-83A	—
28	Cover Assembly, w/Springs	40384-91	—
29	Nut	40392-91	—
30	Debris Deflector (Not Shown)	60397-85B	—



Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

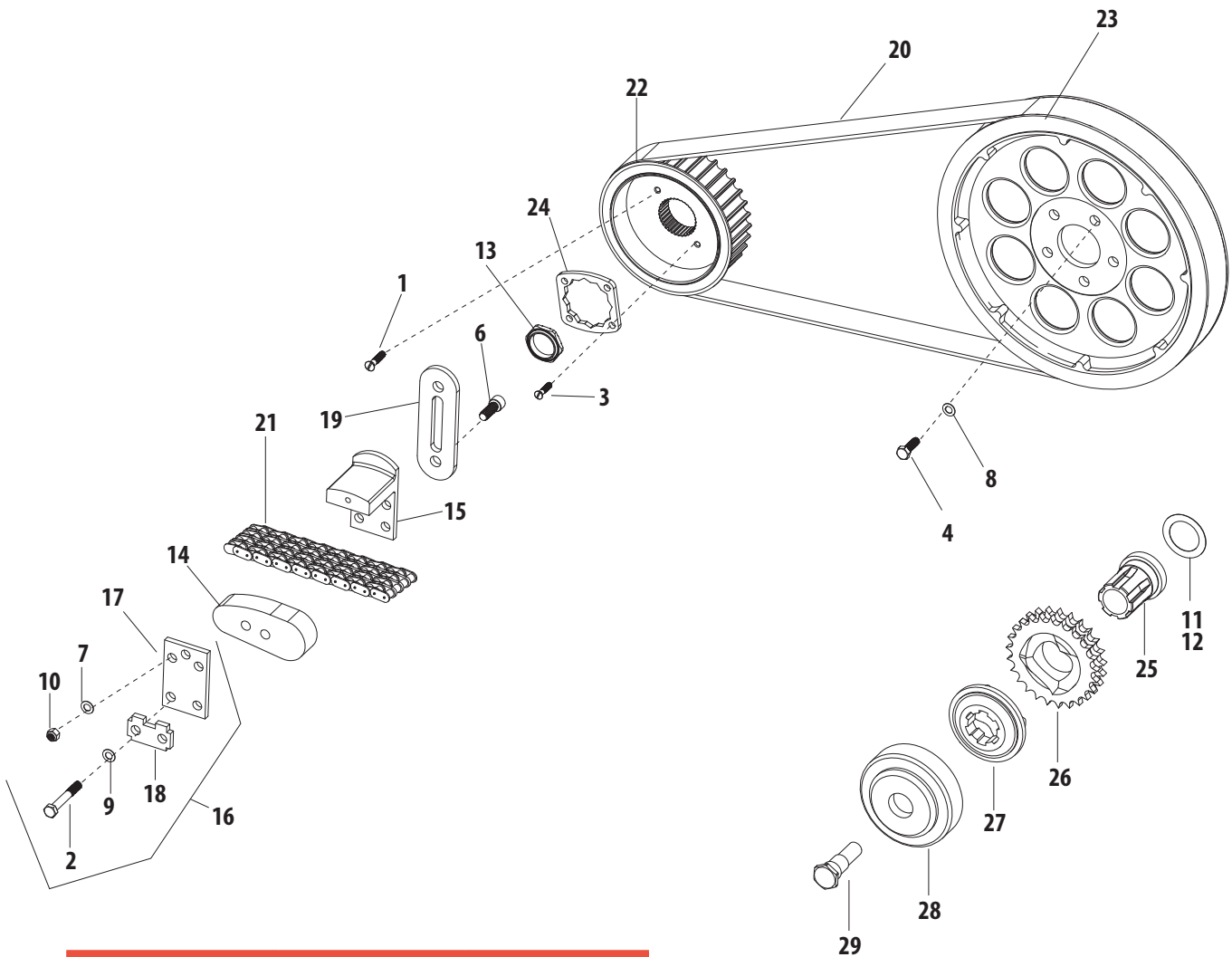
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GATES® CARBON FIBER X3N SECONDARY DRIVE BELTS (14MM PITCH)		
Teeth	1 1/8" Wide	1 1/2" Wide
125	106-0357	-
126	-	106-0348
127	-	106-0349
128	106-0358	106-0350
130	106-0359	106-0351
132	106-0360	106-0352
133	106-0361	106-0353
135	106-0362	106-0354
136	-	106-0355
139	106-0363	106-0356
149	106-1338	-
156	-	106-2827

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CYLINDER, HEAD & VALVE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

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2007-2012

Parts for
Twin Cam 88®
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Parts for
Evolution®
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Parts for
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Shovelheads

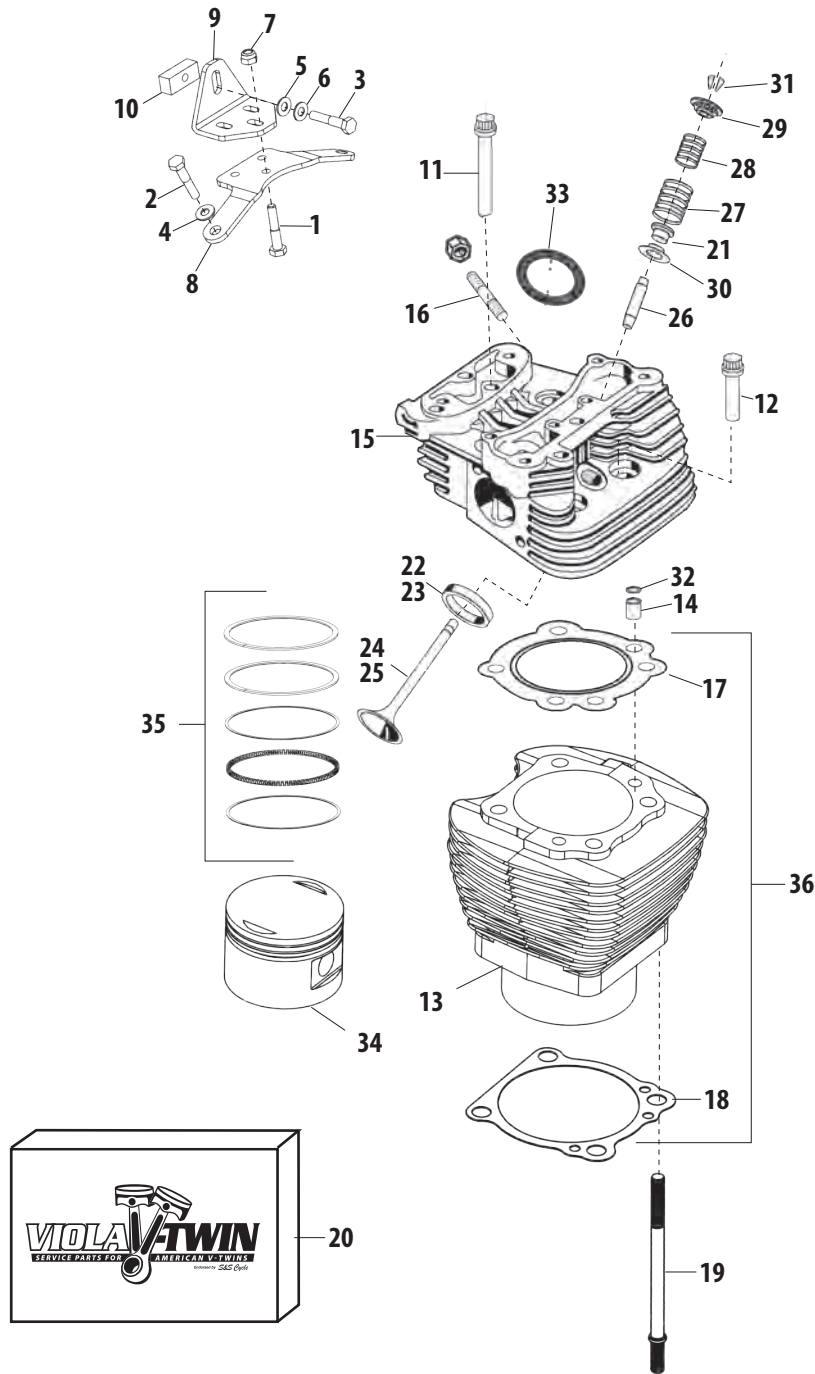
Parts for
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#	Description	H-D® Part No.	VVT Part No.
1	Bolt, 3/8-16 X 1 hex. hd. (Grade 5 steel)	2879W	—
2	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel <i>each</i>	4716W	50-0168
	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel <i>10 Pack</i>		106-3063
3	Bolt, 7/16-20 x 1-1/2 hex. hd. (Grade 5 steel)	4726	—
4	Washer, 25/34 x 59/64 x 3/16 heat treated	6019	—
5	Washer, 7/16 x 1-1/8 x 1/8	6516HW	—
6	Lockerwasher, 7/16	7039	—
7	Flange Locknut, 3/8-16	7601	—
8	Bracket, Engine Mounting	16242-90	—
9	Bracket, Engine Mounting	16247-91	—
10	Mounting Block	16284-84	—
11	Screw, Internal Thread (4) <i>See chart for complete Head Bolt Kit</i>	16478-85A	—
12	Screw, Internal Thread (4) <i>See chart for complete Head Bolt Kit</i>	16480-92	—
13	Cylinder, Front, 3-1/2" Bore, 5.550", Wrinkle Black, 1984-'99 bt <i>See chart for complete Cylinder Set</i>	16512-86A	91-7710F
	Cylinder, Rear, 3-1/2" Bore, 5.550", Wrinkle Black, 1984-'99 bt <i>See chart for complete Cylinder Set</i>		91-7710R
	Cylinder, Front, 3-1/2" Bore, 5.550", Natural, 1984-'99 bt <i>See chart for complete Cylinder Set</i>		91-7210F
	Cylinder, Rear, 3-1/2" Bore, 5.550", Natural, 1984-'99 bt <i>See chart for complete Cylinder Set</i>		91-7210R
14	Pin, Dowel, .557" x .500", Black, Steel (4) <i>each</i>	16573-83	50-8023
	Pin, Dowel, .557" x .500", Black, Steel (4) <i>10 Pack</i>		50-8109
15	Head, Front Cylinder w/Guides & Seats <i>See chart for complete Cylinder Head Kit</i>	16692-95	—
	Head, Rear Cylinder w/Guides & Seats <i>See chart for complete Cylinder Head Kit</i>	16696-92A	—
16	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel (4) <i>each</i>	16715-83	50-0493
	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel (4) <i>5 Pack</i>		50-1028
17	Gasket, Head, .045", 3-1/2", Graphite, 304 SS, 1984-'99 bt (2) <i>each</i>	16770-84F	93-1011-S
	Gasket, Head, .045", 3-1/2", 1984-'99 bt <i>10 Pack</i>		93-1024
	Gasket, Head, .0625", 3-1/2", Graphite, 304 SS, 1984-'99 bt <i>each</i>		93-1313-S
	Gasket, Head, .0625", 3-1/2", Graphite, 304 SS, 1984-'99 bt <i>10 Pack</i>		93-1051
18	Gasket, Base, .018", 3-1/2", Graphite, 1984-1999 bt (2) <i>each</i>	16774-86D	93-1038-S
19	Stud, Cylinder Base, 3/8-16 UNC x 6.680", 1984-'99 bt (8) <i>each</i>	16837-85C	31-2321-S
	Stud, Cylinder Base, 3/8-16 UNC x 6.680", 1984-'99 bt (8) <i>8 Pack</i>		31-2321
20	Gasket Kit, Top Overhaul	17040-92A	—
	Gasket Kit, Engine Overhaul	17041-92A	—
21	Seal, Valve Guide, 1984-up bt (4) <i>each</i>	18001-83B	90-2008
	Seal, Valve Guide, 1984-up bt (4) <i>8 Pack</i>		90-2158
22	Insert, Exhaust Valve Seat (2)	18011-86	—
23	Insert, Intake Valve Seat (2)	18020-83	—
24	Intake Valve (2)	18074-83A	—
25	Exhaust Valve (2)	18082-83, 18101-83D	—
26	Valve Guide, Intake/Exhaust, Standard, Cast Iron, 1984-up bt (4) <i>See chart for +.030" option</i>	18112-92	90-2210
	Valve Guide, Intake/Exhaust, +.001", Cast Iron, 1984-up bt (4) <i>See chart for +.030" option</i>	18130-83D	90-2211
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, 1984-up bt (4) <i>See chart for +.030" option</i>	18133-83D	90-2212
	Valve Guide, Intake/Exhaust, +.003", Cast Iron, 1984-up bt (4) <i>See chart for +.030" option</i>	18131-83D	90-2213
27	Valve Spring, Outer (4) <i>See chart for complete Valve Spring Kit</i>	18201-83	—
28	Valve Spring, Inner (4) <i>See chart for complete Valve Spring Kit</i>	18202-83	—
29	Collar, Valve Spring - Upper (4) <i>See chart for complete Valve Spring Kit</i>	18219-83	—
30	Collar, Valve Spring - Lower (4) <i>See chart for complete Valve Spring Kit</i>	18222-83	—
31	Valve Keeper, Standard, 1984-2005 bt (8) <i>each</i>	18229-83	90-2094-S
	Valve Keeper, Standard, 1984-2005 bt (8) <i>8 Pack</i>		50-7166
32	O-ring, Oil Return, (-015), .562" ID x .068" OD, Black, Viton®, 1984-'99 bt (4) <i>each</i>	26432-76A	50-8034-S
	O-ring, Oil Return, (-015), .562" ID x .068" OD, Black, Viton®, 1984-'99 bt (4) <i>2 Pack</i>		50-8034
33	Gasket, Exhaust, Tapered, Stainless Steel, 1984-up bt <i>each</i>	65324-83B	106-5029
	Gasket, Exhaust, Tapered, Stainless Steel, 1984-'99 bt <i>10 Pack</i>		93-1072
34	Piston, Set, 3-1/2", Standard, 80", FD, .792" WP, 1984-'99 bt <i>Sold as a set with rings, wristpins and clips</i>	21940-83	920-0015
	Piston, Set, 3-1/2", +.010, 80", FD, .792" WP, Cast, 1984-'99 bt <i>Sold as a set with rings, wristpins and clips</i>	21942-83	920-0026
	Piston, Set, 3-1/2", +.020, 80", FD, .792" WP, Cast, 1984-'99 bt <i>Sold as a set with rings, wristpins and clips</i>	21943-83	920-0027
35	Ring, Set, Piston, 3-1/2", Standard, Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21920-83	94-2216X
	Ring, Set, Piston, 3-1/2", +.005", Moly Faced, 1984-'99 bt (2)	21921-83	94-22165X
	Ring, Set, Piston, 3-1/2", +.010", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21922-83	94-2217X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21923-83	94-2218X
	Ring, Set, Piston, 3-1/2", +.030", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21924-83	94-2219X



NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
11	Head Bolt, Kit, 12 pt, 1984-up bt, 1986-2003 xl	93-3010
12	Head Bolt, Kit, 12 pt, 1984-up bt, 1986-2003 xl	93-3010
13	Cylinder, Set, 3-1/2" Bore, 5.550", Natural, 1984-'99 bt	91-7210
	Cylinder, Set, 3-1/2" Bore, 5.550", Wrinkle Black, 1984-'99 bt	91-7710
15	Head, Kit, Stock & 3-5/8" Bore, Performance Replacement, .585" Steel, 82cc, Natural, 1984-'99 bt*	106-3466
	Head, Kit, Stock & 3-5/8" Bore, Performance Replacement, .585" Steel, 82cc, Wrinkle Black, 1984-'99 bt*	106-4570
26	Valve Guide, Intake/Exhaust, +.030", Cast Iron, 1984-up bt	90-2219
27, 28, 29, 30	Spring, Kit, Valve, Dual, Steel, .585", 1984-2004 bt, 1986-2003 xl	90-2277
36	Cylinder, Kit, 3-1/2" Bore, 5.550", 4-1/4" Stroke, 920-0015, Natural, 1984-'99 bt	910-0179
	Cylinder, Kit, 3-1/2" Bore, 5.550", 4-1/4" Stroke, 920-0015, Sidewinder Black, 1984-'99 bt	910-0182

* Not legal for sale or use on CA or EPA pollution controlled vehicles.

Note: VVT parts cross referenced to stock OEM parts are functionally identical, but may differ slightly in appearance. Line drawings are a typical representation and may not be an exact match. Please confirm the required stock part number for intended application before ordering. All reference to H-D® part numbers are for identification purposes only. We are in no way implying that any of the VVT products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.

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ROCKER ARM & PUSHROD REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Bolt, 1/4 x 20 x 1" knurled socket head 1984 - '90 bt (8) <i>each</i>	852	50-0084
	Bolt, 1/4 x 20 x 7/8" knurled socket head with washer 1991 - '99 bt (8)	852	—
2	Bolt, 5/16-18 X 2-3/4 hex. hd. (Grade 8 steel) (4)	3500	—
3	Screw, HHC, Gr8, 5/16-18 x 2-1/2", Zinc, Steel (4) <i>each</i>	3501	50-0104
	Screw, HHC, Gr8, 5/16-18 x 2-1/2", Zinc, Steel (4) <i>5 Pack</i>		50-1000
4	Screw, DHH, 12 pt, 1/4-20 x 7/8", Zinc, Steel (8) <i>each</i> See chart for chrome option	3770	50-0068
	Screw, DHH, 12 pt, 1/4-20 x 7/8", Zinc, Steel (8) <i>4 Pack</i> See chart for chrome option		50-0068P
	Screw, DHH, 12 pt, 1/4-20 x 7/8", Zinc, Steel (8) <i>10 Pack</i> See chart for chrome option		50-0240
5	Bolt, 1/4-20 x 1-1/4 hex. hd. (6)	3997	—
6	Screw, SHCS, 1/4-20 x 1-1/2", Zinc, ASTM A574-92A (4) <i>each</i>	4718A	50-0079
7	Washer, Flat, .344" x .688" x .065", Zinc, Steel (8) <i>each</i>	6016	50-7034
8	Washer, Flat, .281" x .625" x .080", Zinc, Steel (6) <i>each</i>	6736, 6703, 6228W	50-7021
	Washer, Flat, .281" x .625" x .080", Zinc, Steel (6) <i>10 Pack</i>		50-7074
9	Washer, .903" x 1.053" x .034", Cold Rolled Steel (4) <i>each</i>	6737	50-7150
10	Washer, Flat, .715" x .950" x .031", Steel (4) <i>each</i>	6762B	50-7131
	Washer, Flat, .715" x .950" x .031", Steel (4) <i>10 Pack</i>		50-7136
11	O-ring, Middle, Pushrod Cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>each</i> See chart for complete Pushrod O-ring kit	11132A	50-8038
	O-ring, Middle, Pushrod Cover, (-115), .687" ID x .875" OD, Black, Nitrile (4) <i>10 Pack</i>		93-4111
12	O-ring, Bottom, Pushrod Cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>each</i> See chart for complete Pushrod O-ring kit	11145A	50-8037
	O-ring, Bottom, Pushrod Cover, (-118), .875" ID x 1.062" OD, Viton® (4) <i>10 Pack</i>		93-4112
13	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>each</i> See chart for complete Pushrod O-ring kit	11157	50-8039
	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>5 Pack</i>		50-8200
	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton® (4) <i>10 Pack</i>		93-4110
14	Gasket, Bottom Right, Rocker Cover, .018", Graphite, 1984-'99 bt (2) <i>each</i>	16778-84A, 16800-84A	90-4058
	Gasket, Bottom Right, Rocker Cover, .018", Graphite, 1984-'99 bt (2) <i>10 Pack</i>		90-4062
15	Gasket, Bottom Left, Rocker Cover, .018", Graphite, 1984-'99 bt (2) <i>each</i>	16779-84B, 16800-8A	90-4059
	Gasket, Bottom Left, Rocker Cover, .018", Graphite, 1984-'99 bt (2) <i>10 Pack</i>		90-4063
16	Gasket, Kit, Rocker Cover, Rubber, 1992-'99 bt includes # 14, 15, 17, 18, 19, 36 & 37	17042-92A	90-4047
	Gasket, Kit, Rocker Cover, Rubber, 1984-'91 bt includes # 14, 15, 17, 18, 19, 36 & 37	17038-90	90-4046
17	Gasket, Middle Outer, Rocker Cover, Rubber, 1992-'99 bt (2)	17355-92	90-4044
18	Gasket, Top, Rocker Cover, Rubber, 1992-'99 bt (2)	17356-92	90-4045
19	Gasket, Middle Inner, Rocker Cover, Cork, 1984-'99 bt (2)	17358-84B	90-4018
	Gasket, Middle Inner, Rocker Cover, Rubber, 1984-'99 bt (2)		90-4042
20	Rocker Arm, Assembly, RE/FL, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17360-83A	900-4119RA
21	Rocker Arm, Assembly, FE/RI, Non-Roller, 1.625:1 Ratio, 8620, 1984-up bt (2)	17375-83A	900-4119FA
22	Bushing, Rocker Arm (8)	17428-57	—
23	Rocker Cover, Outer (Chrome) (2) See chart for complete Rocker Box Kit	17528-92	—
24	Spacer, Rocker Covers (Chrome) (2) See chart for complete Rocker Box Kit	17529-92	—
25	Rocker Cover, inner (Chrome) (2) See chart for complete Rocker Box Kit	17530-92	—
26	Shaft, Rocker Arm, Stock Replacement, 1984-up bt (4) <i>each</i>	17611-83B	90-4006
	Shaft, Rocker Arm, Stock Replacement, 1984-up bt (4) <i>4 Pack</i>		90-4036
27	Pushrod, Rear Exhaust -11.210" long See chart for complete Adjustable Pushrod Set	17921-83	—
	Pushrod, Rear Intake -11.045" long See chart for complete Adjustable Pushrod Set	17924-83	—
	Pushrod, Front Exhaust -11.325" long See chart for complete Adjustable Pushrod Set	17927-83	—
	Pushrod, Front Intake -11.090" long See chart for complete Adjustable Pushrod Set	17930-83	—
28	Pushrod Cover, Top, Natural, Aluminum, 1966-up bt (4) See chart for complete Pushrod Cover kit	17935-79B	93-4016
29	Pushrod Cover, Bottom, Chrome Plated, Steel, 1984-up bt (4) See chart for complete Pushrod Cover kit	17938-83	93-4015
30	Cap, Pushrod Cover, 1936-up bt (4) See chart for complete Pushrod Cover kit	17945-36B	93-4017
31	Spring, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt(4) See chart for complete Pushrod Cover kit	17947-36	93-4018
32	Cover Keeper, Pushrod, 3.330", Chrome (4) <i>each</i>	17950-66	93-4035-S
	Cover Keeper, Pushrod, 3.330", Chrome (4) <i>4 Pack</i>		93-4106
33	Tappet, Hydraulic Roller Lifter, Crane Cams® (4) <i>each</i>	18523-86B	3-2050
	Tappet, Set, Hydraulic, 1984-'99 bt (4) <i>4 Pack</i>		33-5352
34	Tappet Guide, rear See chart for Tappet Guide Set	18622-85B	—
	Tappet Guide, front See chart for Tappet Guide Set	18623-85B	—
35	Gasket, Rear, Tappet Guide, 1948-'99 bt <i>each</i>	18633-48D	33-5302R
	Gasket, Rear, Tappet Guide, 1948-'99 bt <i>10 Pack</i>		33-5313R
	Gasket, Front, Tappet Guide, 1948-'99 bt <i>each</i>		33-5302F
	Gasket, Front, Tappet Guide, 1948-'69 bt <i>10 Pack</i>		33-5313F
36	Seal, Umbrella Valve Cover	26856-89A	90-4030
37	Gasket, 9/32 x 5/8 x 1/32 copper, 1984 - '86 bt (8) <i>each</i>	6114	50-7018
	Gasket, Fiber, 1987-'99 bt See chart for compatible Gasket	63858-49	—
38	Washer, 9-32 x 5/8 x 1/16" washer, 1984-'90 See chart for compatible Washer	6736	—

Parts for Twin Cam 96™/103™ 2007-2012

Parts for Twin Cam 88® 1999-2006

Parts for Evolution® 1984-1999

Parts for Sportster® 1986-2012

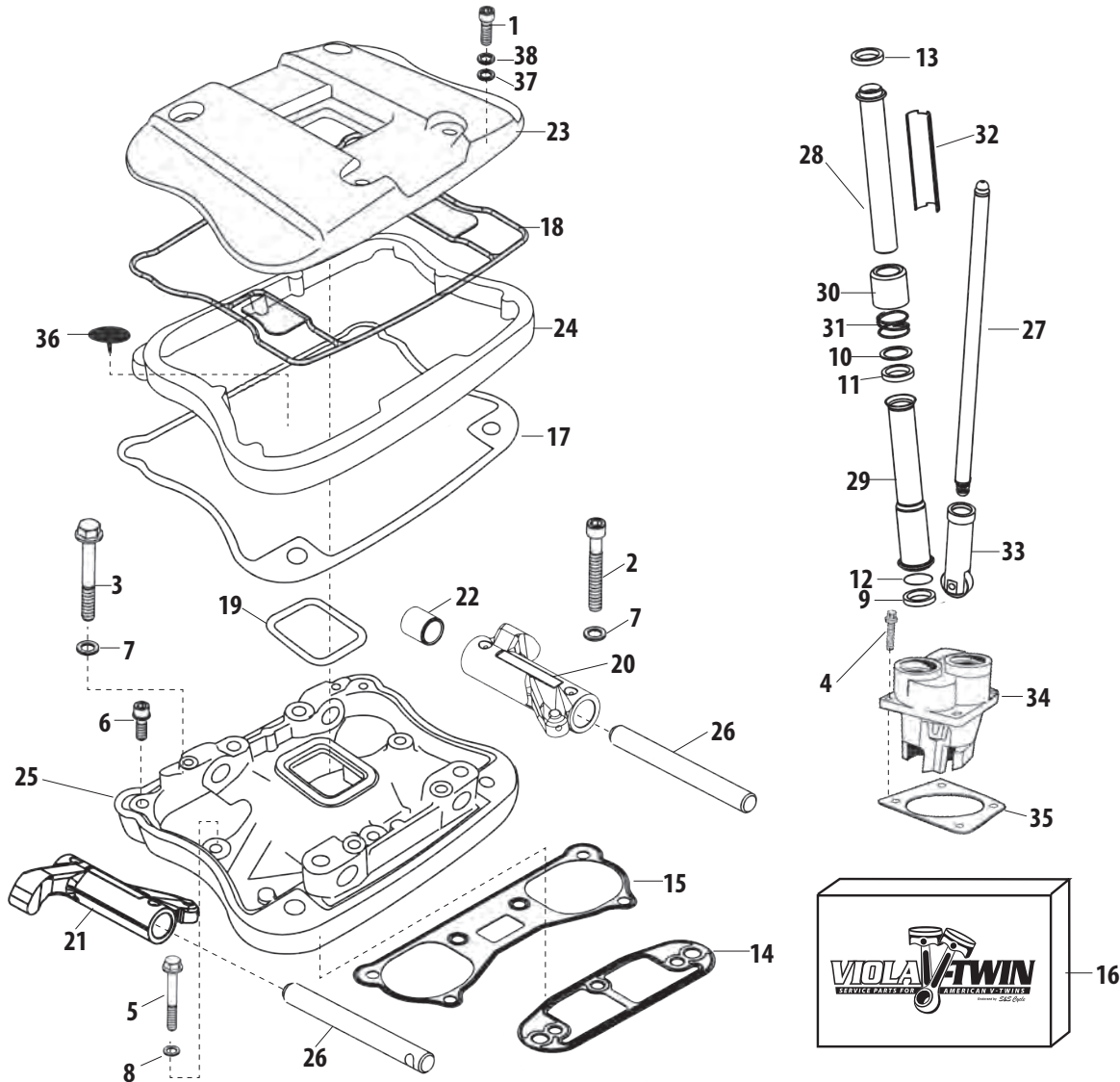
Parts for Shovelheads

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NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
4	Screw, 12 pt, 1/4-20 x 7/8", Chrome, Steel <i>each</i>	50-0246-S
	Screw, 12 pt, 1/4-20 x 7/8", Chrome, Steel <i>4 Pack</i>	50-0246P
11, 12, 13	O-ring, Kit, Pushrod Cover, 1984-'99 bt, 1986-2003 xl (includes #11, 12, 13)	93-4022
23, 24, 25	Rocker Box, Kit, Chrome, Billet, 1984-'99 bt, 1986-2003 xl	90-4050
	Rocker Box, Kit, Natural, Billet, 1984-'99 bt, 1986-2003 xl	90-4055
	Rocker Box, Kit, Chrome, Die Cast, 1984-'99 bt	90-4095
27	Pushrod, Set, Standard Adjustable, Stock, Steel, 1984-'99 bt	93-5076
	Pushrod, Set, Quickee Adjustable, Hydraulic Tappet, 80"-98", 113", 117", 124", Steel, 1984-'99 bt	93-5120
	Pushrod, Set, Adjustable, Stock, Steel, 1984-'99 bt, Crane Cams®	4-0018
	Pushrod, Set, Timesaver, Stock, Steel, 1984-'99 bt, Crane Cams®	4-0030
28, 29, 30, 31	Pushrod Cover, Kit, Chrome, 1984-'99 bt, 1986-'90 xl (includes #10, 11, 12, 13, 29, 30, 31)	93-4039
34	Tappet Guide, Set, w/o Logo, S&S® Crankcase, SA Style, Chrome, Billet, 1984-'99 bt	106-3005
	Tappet Guide, Set, w/o Logo, Stock Style, Polished, 1984-'99 bt	106-6459
	Tappet Guide, Set, Stock Style, Natural, Cast, 1984-'99 bt	33-5301
	Tappet Guide, Set, Stock Style, Wrinkle Black, Cast, 1984-'99 bt	33-5324
37	Gasket, 1/4 x 7/16 x 0.020" rubber covered steel gasket <i>each</i>	50-7015
	Gasket, 1/4 x 7/16 x 0.020" rubber covered steel gasket <i>8 pack</i>	50-7015-8
	Gasket, 1/4 x 7/16 x 0.020" rubber covered steel gasket <i>12 pack</i>	50-7015-12
38	Washer, 1/4 x 7/16 x 1/16" (H-D® #6099) <i>each</i>	50-7017
	Washer, 1/4 x 7/16 x 1/16" (H-D® #6099) <i>12 pack</i>	50-7013

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Twin Cam 96"/103"
2007-2012

Parts for
Twin Cam 88°
1999-2006

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PISTONS, CONNECTING RODS & FLYWHEELS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Washer, 1-13/32 X 2-3/32 X 1/16 (bronze) 2	6506	32-2019
2	Key, Woodruff, .125" x .375" x .374", Steel <i>each</i>	11218	50-8222-S
	Key, Woodruff, .125" x .375" x .374", Steel <i>5 Pack</i>		50-1009
3	T-Key, 1990-'99 bt	11219	—
	Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>each</i>	23985-54	50-8221-S
	Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>2 pack</i>		50-8221-2
Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>5 pack</i>	50-1008		
4	Ring, Set, Piston, 3-1/2", Standard, Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21920-83	94-2216X
	Ring, Set, Piston, 3-1/2", +.005", Moly Faced, 1984-'99 bt (2)	21921-83	94-22165X
	Ring, Set, Piston, 3-1/2", +.010", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21922-83	94-2217X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21923-83	94-2218X
	Ring, Set, Piston, 3-1/2", +.030", Moly Faced, .0625, .0625, .1525, 1984-'99 bt (2)	21924-83	94-2219X
5	Piston, Set, 3-1/2", Standard, 80", FD, .792" WP, 1984-'99 bt (2)	21940-83	920-0015
	Piston, Set, 3-1/2", -0.005", 80", FD, .792" WP, Cast, 1984-'99 bt (2)	21941-83	—
	Piston, Set, 3-1/2", +.010, 80", FD, .792" WP, Cast, 1984-'99 bt (2)	21942-83	920-0026
	Piston, Set, 3-1/2", +.020", 80", FD, .792" WP, Cast, 1984-'99 bt (2)	21943-83	920-0027
	Piston, Set, 3-1/2", -0.030", 80", FD, .792" WP, Cast, 1984-'99 bt (2)	21944-83	—
6	Wristpin Keeper, C-Clip, .791"/.792" (4) <i>each</i>	22589-83B	94-9254-S
	Wristpin Keeper, C-Clip, .791"/.792" (4) <i>4 Pack</i>		94-9254
7	Wristpin (2)	22764-83	—
8	Flywheel, Assembly, 4-1/4" Stroke, 8-1/2" Diameter, Balanced, 1984-'99 bt	23906-93B, 23906-78G, 23906-90A	32-2239
	Flywheel, Assembly, 4-1/4" Stroke, 8-1/2" Diameter, Notched, Balanced, 1995-'98 bt (EFI Crankcase)	23941-95	32-2145
9	Inner Ring	23928-87	—
10	Crankpin, Assembly, Tapered, 1.249", 1981-99 bt	23961-80A	34-2102
	Crankpin, Assembly, Tapered, 1.250", 1981-99 bt	23974-87	34-2103
	Crankpin, Assembly, Tapered, 1.251", 1981-99 bt	23975-87	34-2105
11	Nut, HH, 1-20 UNEF-3B x .346", Black, Steel, 4140	23969-83, 23981-98	34-2104
12	Connecting Rod, Set, Heavy Duty, IBC, .792" WP, 7.440", 1984-'99 bt	24281-83	34-7013
13	Bushing, Wristpin, .767" x .895" x 1.077", Bronze, 1941-'99 bt	24334-36	34-4007
	Bushing, Piston Pin -0.010" O.S. (2)	24335-36	—
14	Race, Rear, Connecting Rod, 1941-'99 bt (2)	24345-36A	34-4006
15	Bearing, Assembly, Connecting Rod, 1.25", 1941-'99 bt	24346-87A	34-4010
16	Bushing, Front Connecting Rod - Lower	24356-36A	34-4005

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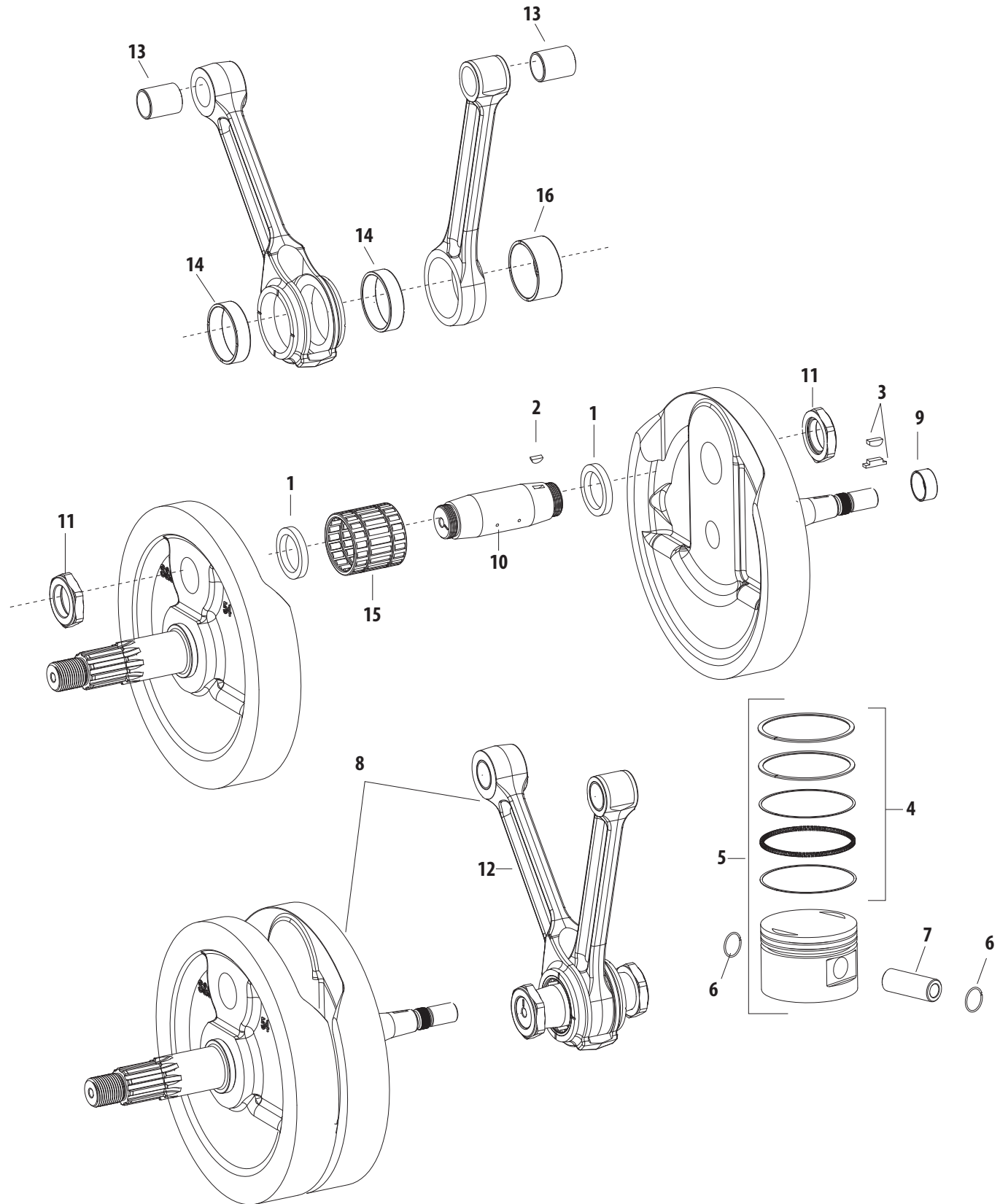
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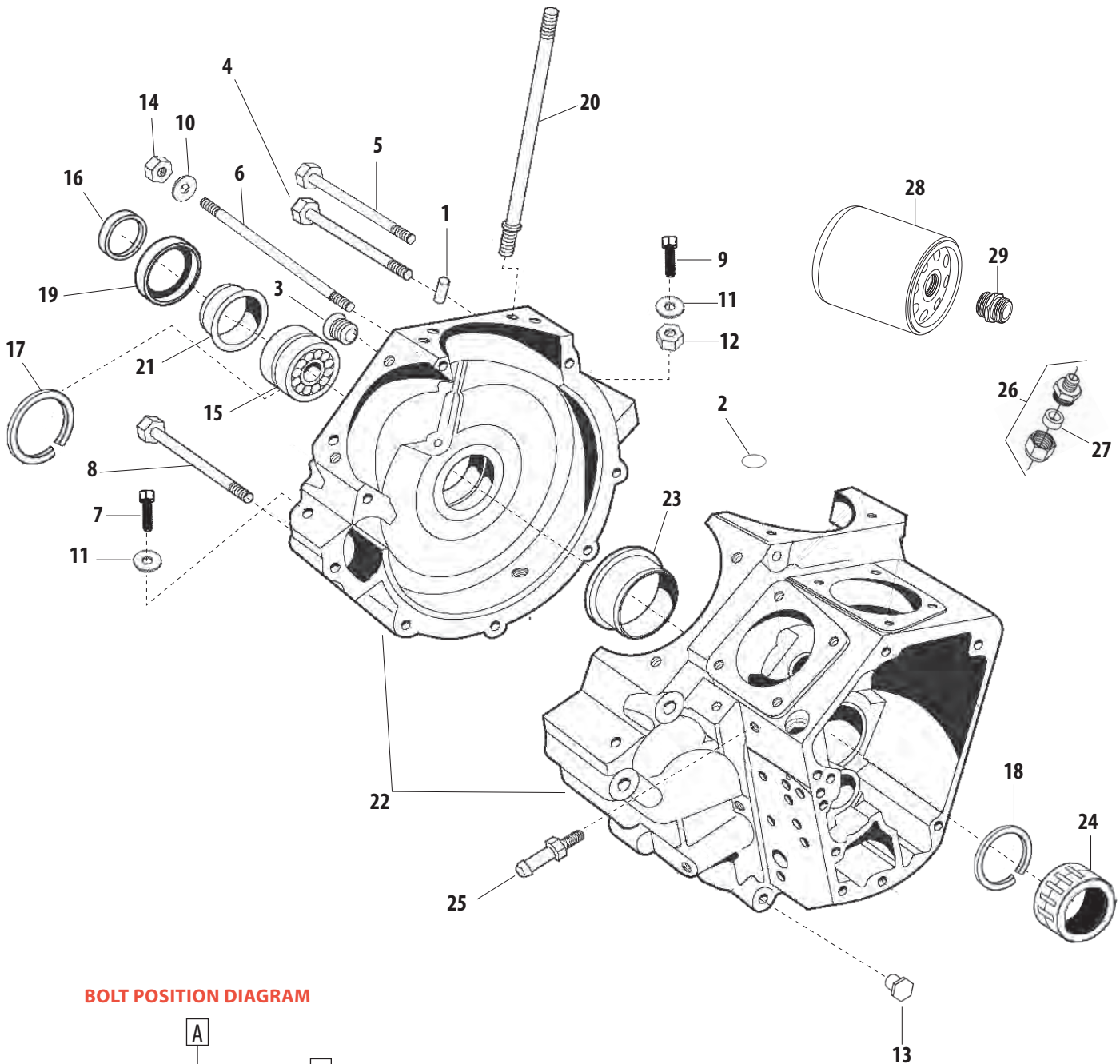
Parts for Panheads

Parts for Knuckleheads

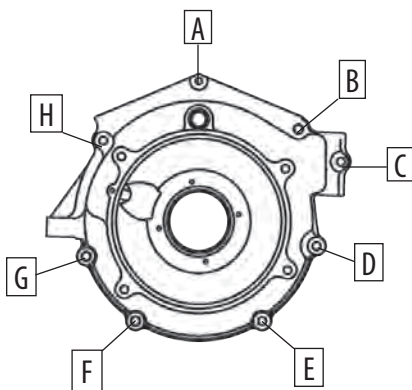
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#	Description	H-D® Part No.	VVT Part No.
1	Pin, Dowel, .250" x .500", Steel (2) <i>each</i>	358	50-8022
	Pin, Dowel, .250" x .500", Steel, 2 <i>Pack</i>		50-8022-2
	Pin, Dowel, .250" x .500", Steel, 5 <i>Pack</i>		50-8105
2	Expansion Plug	653	—
3	Plug, Timing, Threaded, 5/8-18 UNF-2A x .545", Zinc, Steel	720	31-2005
4	Bolt, 5/16-18 x 3-3/8 hex flange hd., LATE (4) (Positions B, C, D & H)	3398	—
	Bolt, HHC, Gr8, 5/16-24 x 5", Zinc, Steel EARLY (Position C)	3430	50-0119
	Bolt, 5/16-18 x 3-1/2 hex head EARLY (Position D & H)	3427	—
5	Bolt 5/16-24 x 5-3/8 hex flange hd. LATE (1) (Position G)	3504A, 3505	—
	Bolt, 5/16-24 x 5-3/8 hex EARLY (2) (Positions B & G)	3504	—
	Stud, 5/16-24 x 5-3/4 hex. hd. LATE (1) (Grade 5 steel) (Positions A)	3506	31-2003
6	Stud, 5/16-24 x 5-3/4 hex. hd. EARLY (3) (Grade 5 steel) (Positions A, E, & F)	3506	31-2003
	Bolt, 3/8-24 x 3-1/4 hex. hd. (chrome) (2)	3512	—
8	Bolt, 5/16-24 x 5-1/2 flange LATE (2) (Position E & F)	3613	—
9	Bolt, 3/8-24 x 1 hex. hd. (Grade 5 steel) (2)	4416, 70907-07	—
10	Washer, Flat, .344" x .688" x .065", Zinc, Steel (2)	6016	50-7034
11	Washer, 25/34 x 59/64 x 3/16 heat treated (4)	6019	—
12	Locknut, No. 3/8-24 x 1/4 hex. (Grade 2 steel) (4)	7506	—
13	Flange Nut, 5/16-24 LATE (3)	7593	—
	Nut, 5/16-24 x 1/4 x 1/2 EARLY (9)	7753	—
14	Nut, HH, 5/16-24 UNF-2B x .273", Zinc, Steel (2)	7833, 7883	50-5023
15	Bearing, Assembly, Left, Main	9028	31-4013
16	Spacer, Left, Main Bearing, .090"	9110	—
	Spacer, Left, Main Bearing, .092"	9120	—
	Spacer, Left, Main Bearing, .094"	9121	—
	Spacer, Left, Main Bearing, .096"	9122	—
	Spacer, Left, Main Bearing, .098"	9123	—
	Spacer, Left, Main Bearing, .100", Steel, 1969-'99 bt	9124	31-4071
	Spacer, Left, Main Bearing, .102", Steel, 1969-'99 bt	9125	31-4072
	Spacer, Left, Main Bearing, .104", Steel, 1969-'99 bt	9126	31-4073
	Spacer, Left, Main Bearing, .106", Steel, 1969-'99 bt	9127	31-4074
	Spacer, Left, Main Bearing, .108", Steel, 1969-'99 bt	9128	31-4075
	Spacer, Left, Main Bearing, .110"	9129	—
	Spacer, Left, Main Bearing, .112"	9130	—
	Spacer, Left, Main Bearing, .114"	9131	—
	Spacer, Left, Main Bearing, .116"	9132	—
17	Spacer, Left, Main Bearing, .118"	9133	—
	Spacer, Left, Main Bearing, .120", Steel, 1969-'99 bt	9134	31-4076
18	Retaining Ring, Left Bearing	11160A	—
18	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046", Carbon Steel, SAE 1060-1090 <i>each</i>	11177A	50-8057
	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046", Carbon Steel, SAE 1060-1090 <i>5 Pack</i>		50-1004
19	Seal, Left, Main Bearing, 1.750" x 2.507" x .3130", 1970-up bt	12026B	31-4010
20	Stud, Cylinder Base, 3/8-16 UNC x 6.680", Black Oxide, 1984-'99 bt (8) <i>each</i>	16837-85C	31-2321-5
	Stud, Cylinder Base, 3/8-16 UNC x 6.680", Black Oxide, 1984-'99 bt (8) <i>8 Pack</i>		31-2321
21	Spacer, Sprocket Shaft, 1970-up bt	24002-70	31-4011
22	Crankcase, Assembly, Stock Bore, bt, Alternator, CPS Machining, Wrinkle Black, 1992-'99 bt	24571-93, 24569-95	31-0055
	Crankcase, Assembly, Stock Bore, bt, Alternator, Wrinkle Black, 1984-'91 bt	24473-85C	31-0052
	Crankcase, Assembly, Stock Bore, bt, Alternator, CPS Machining, Natural, 1984-'91 bt	24469-83C	31-0000
	Crankcase, Assembly, Stock Bore, bt, Alternator, CPS Machining, Natural, 1992-'99 bt		31-0005
23	Race, Right, Main Bearing, Standard, 1958-'99 bt	24599-93	31-4004
	Race, Right, Main Bearing, +.002" O.S. O.D.	24600-58B	—
	Race, Right, Main Bearing, +.005" O.S. O.D.	24601-58B	31-4007
24	Bearing, Assembly, Right, Main, Small/Medium, White, 1958-'99 bt	24626-87A	31-4005
	Bearing, Assembly, Right, Main, Small, Green, 1958-'99 bt	24628-87A	31-4016
	Bearing, Assembly, Right, Main, Large, Red, 1958-'99 bt	24641-87A	31-4017
	Bearing, Assembly, Right, Main, Medium/Large, Blue, 1958-'99 bt	24643-87A	31-4018
25	Fitting, Hose, Straight, 1/8-27 NPTF x .500", Zinc, Steel	63533-41A	50-8115
26	Fitting, Assembly, Compression, Male/Female, 1/8-27	63523-92A	50-8120
27	Seal	63525-92	—
28	Filter, Oil, Chrome <i>each</i>	63796-77A	31-4102
	Filter, Oil, Chrome <i>12 Pack</i>		310-0240
	Filter, Oil, Black <i>each</i>		31-4101
	Filter, Oil, Black <i>12 Pack</i>		310-0239
29	Adaptor, Oil Filter	26352-95A	—



BOLT POSITION DIAGRAM



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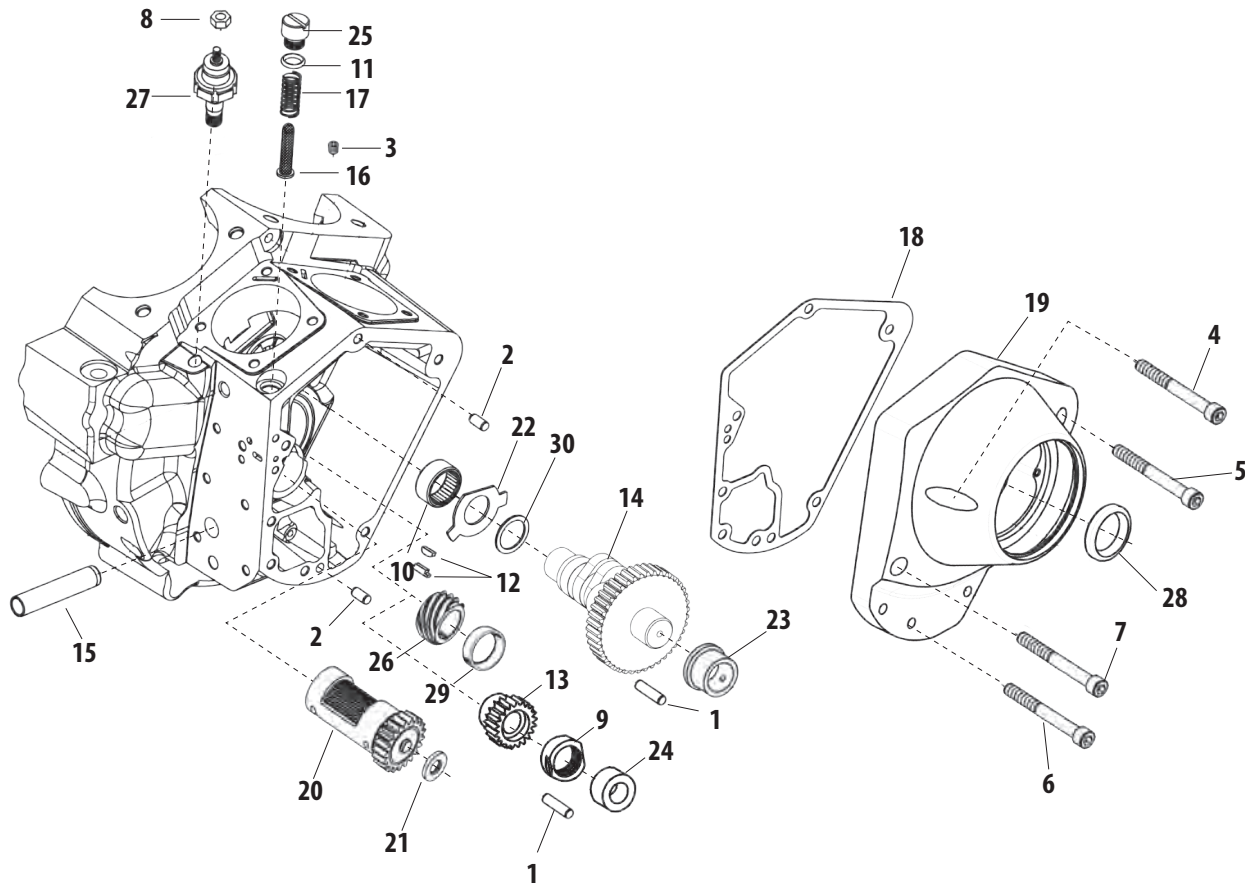
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#	Description	H-D® Part No.	VVT Part No.
1	Pin, Dowel (2 -as required)	275	—
2	Pin, Dowel, .250" x .500", Steel (2) <i>each</i>	358, 366	50-8022
	Pin, Dowel, .250" x .500", Steel (2) <i>2 Pack</i>		50-8022-2
	Pin, Dowel, .250" x .500", Steel (2) <i>5 Pack</i>		50-8105
3	Plug, Crankcase	653	—
4	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	3480A	50-0010-S
5	Screw, 1/4-20 x 1-3/8 knurled socket hd. (w/lockpatch)	4813A	—
6	Screw, SHCS, 1/4-20 x 1-1/2", Zinc, ASTM A574-92A	4718A	50-0079
7	Screw, SHCS, 1/4-20 x 1-1/4", Zinc <i>each</i>	3482A, 4740A	50-0008
	Screw, SHCS, 1/4-20 x 1-1/4", Zinc <i>10 Pack</i>		50-0153
8	Nut, No.1 0-32 x 3/8 hex (keys)	7629	—
9	Nut, Pinion Gear, 5/8-18 (locking) for 1990-'99 bt	7916A	—
	Nut, Pinion Gear, 5/8-24 UNEF-3B LH x .375", Black, Steel, 4140 for 1984-'89 bt	24023-54	33-4244
10	Bearing, Assembly, Needle, Cam	9058	31-4009
11	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® <i>each</i>	11105	50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® <i>10 Pack</i>		50-8078
12	T-Key, 1990-'99 bt	11219	—
	Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>each</i>	23985-54	50-8221-S
	Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>2 pack</i>		50-8221-2
	Key, Woodruff, .094" x .500" x .491", Steel, 1984-'89 bt <i>5 pack</i>		50-1008
13	Gear, Pinion, All Sizes, 1993-'99 bt	—	—
	Gear, Pinion, Orange, L1977-'89 bt	24040-78	33-4141
	Gear, Pinion, White, L1977-'89 bt	24041-78	33-4142
	Gear, Pinion, Yellow, L1977-'89 bt	24042-78	33-4143
	Gear, Pinion, Red, L1977-'89 bt	24043-78	33-4144
	Gear, Pinion, Blue, L1977-'89 bt	24044-78	33-4145
	Gear, Pinion, Green, L1977-'89 bt	24045-78	33-4146
	Gear, Pinion, Black, L1977-'89 bt	24046-78	33-4147
14	Set of Cam & Pinion Gears (matched)	24586-93	—
15	Bushing, Drive Shaft, Oil Pump, Stepped, .424" x .533" x 2.540", Bronze, 1936-1999 bt	24641-36	31-4008
16	Screen, Crankcase Oil <i>each</i>	24981-70	31-2010
	Screen, Crankcase Oil <i>5 Pack</i>		31-7008
17	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '99 <i>each</i>	24982-70	31-2011-S
	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '99 <i>10 Pack</i>		31-2058
18	Gasket, Gearcover, Undersized Profile, 1970-'99 bt <i>each</i>	25225-93B	31-2107
	Gasket, Gearcover, Undersized Profile, 1970-'99 bt, <i>10 Pack</i>		106-0232
19	Gearcover, (Chrome) See chart for complete Gearcover Kit options	25256-93A	—
20	Gear, Breather, L1977-'99 bt	25310-82A	33-4241
21	Shim, Kit, includes one of each size, .100" - .170", Steel	—	33-4249
	Shim, Breather Gear, .325" x .740" x .130", Steel <i>each</i>	25320-82	33-4203
	Shim, Breather Gear, .325" x .740" x .135"	25321-82	—
	Shim, Breather Gear, .325" x .740" x .140", Steel <i>each</i>	25322-82	33-4204
	Shim, Breather Gear, .325" x .740" x .145"	25323-82	—
	Shim, Breather Gear, .325" x .740" x .150", Steel <i>each</i>	25325-82	33-4205
	Shim, Breather Gear, .325" x .740" x .155"	25326-82	—
	Shim, Breather Gear, .325" x .740" x .160", Steel <i>each</i>	25327-82	33-4206
	Shim, Breather Gear, .325" x .740" x .165"	25328-82	—
22	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>each</i>	25550-57A	33-5201
	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>5 Pack</i>		33-5213
23	Bushing, Cam, Bronze, 1970-'99 bt	25581-70	31-4019
24	Bushing, Pinion Shaft, Bronze, 1973-'92 bt	25582-93	31-4031
25	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>each</i>	26263-80	31-6021
	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>5 Pack</i>		31-7005
26	Gear, Pinion, Oil Pump Drive for 1993-'99 bt	26354-93	—
	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1954-'89 bt	26349-73	33-4232
27	Switch, Assembly, Oil Pressure, 1984-'99 bt	26561-84	31-2016
28	Seal, Gearcover Cam, 1" x 1.441" x .250", 1970-up bt <i>each</i>	83162-51	31-4022
	Seal, Gearcover Cam, 1" x 1.441" x .250", 1970-up bt <i>5 Pack</i>		31-7002
29	Spacer, Oil Pump Drive Gear, .740" x .900" x .320", Black, Steel, 1954-'89 bt	24703-54B	33-4289



#	Description	H-D® Part No.	VVT Part No.
30	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel <i>each</i>		33-5200
	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, <i>5 Pack</i>	25550-36	33-1007
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel <i>each</i>		33-5202
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, <i>5 Pack</i>	25551-36	33-1008
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel <i>each</i>		33-5203
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, <i>5 Pack</i>	25552-36	33-1009
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel <i>each</i>		33-5204
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, <i>5 Pack</i>	25553-36	33-1010
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel <i>each</i>		33-5205
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, <i>5 Pack</i>	25554-36	33-1011
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel <i>each</i>		33-5206
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, <i>5 Pack</i>	25555-36	33-1012
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel <i>each</i>		33-5207
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel, <i>5 Pack</i>	25556-36	33-1013
	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel <i>each</i>		33-5209
	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel, <i>5 Pack</i>	25558-36	33-1014

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
19	Gearcover, Kit, Alternator, Billet Ignition Cover, Chrome, Billet, 1973-'92 bt	106-4211
	Gearcover, Kit, Alternator, Billet Ignition Cover, Polished, Billet, 1973-'92 bt	31-0335
	Gearcover, Kit, Alternator, Flangeless, Billet Ignition Cover, Polished, Billet, 1993-'99 bt	31-0336
	Gearcover, Kit, Alternator, Flanged, Natural, Cast, 1993-'99 bt	31-0212
	Gearcover, Kit, Alternator, Flanged, Natural, Cast, 1973-'92 bt	31-0211
	Gearcover, Kit, Alternator, Flanged, Wrinkle Black, Cast, 1973-'92 bt	31-0304
	Gearcover, Kit, Alternator, Flanged, Billet Outer Cover, Natural, 1993-'99 bt	31-0243
	Gearcover, Kit, Alternator, Flanged, Billet Outer Cover, Natural, Cast, 1973-'92 bt	31-0209
	Gearcover, Kit, Alternator, Flanged, Billet Outer Cover, Wrinkle Black, Billet, 1973-'92 bt	31-0305
	Gearcover, Kit, Alternator, Flangeless, Natural, Cast, 1993-'99 bt	31-0204
	Gearcover, Kit, Alternator, Flangeless, Natural, Cast, 1973-'92 bt	31-0203

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#	Description	H-D® Part No.	VVT Part No.
1	Pin, Valve Stop	239	—
2	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	891	50-0010-S
3	Screw, 1/4-20 x 3/4 torx socket button hd (w/lockpatch)	942	—
4	Screw, 1/4-20 x 2-1/4 knurled socket hd. (w/lockpatch)	4742A	—
5	Washer, 1/4 x 7/16 x 1/16	6099	—
6	Washer, 1/4 x 1/2 x 3/32	6239	—
7	Ball, Check Valve, .375", Stainless Steel	8866, 8873	50-8091
8	Retaining Ring, External, Tru-arc, .366" x .025", Oil Pump Drive Gear, Carbon Steel, SAE 1060-1090 <i>each</i>	11002	50-8059
	Retaining Ring, External, Tru-arc, .366" x .025", Oil Pump Drive Gear, Carbon Steel, SAE 1060-1090 <i>10 Pack</i>		50-8107
9	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) <i>each</i>	11105	50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton® (2) <i>10 Pack</i>		50-8078
10	O-ring (2)	11241	—
11	End Cap	26030-92A	—
	Oil Pump	26050-92	—
12	Body, Oil Pump <i>See chart for complete Oil Pump Kit</i>	26226-92	—
13	Spring, Relief Valve, .040" Wire, .242" x .324" x 2.32", ASTM A-229, 1936-'99 <i>bt each</i>	26207-83	31-6018
	Spring, Relief Valve, .040" Wire, .242" x .324" x 2.32", ASTM A-229, 1936-'99 <i>10 Pack</i>		31-6084
14	Seal, Oil Pump Drive Shaft, 1968-up <i>bt</i>	26227-58	31-6005
15	Cover, Oil Pump	26267-92	—
16	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936-'99 <i>bt each</i>	26262-80	31-6022
	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936-'99 <i>10 Pack</i>		31-6092
17	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel (2) <i>each</i>	26263-80	31-6021
	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel (2) <i>5 Pack</i>		31-7005
18	Gasket, Body (paper)	26273-92	—
19	Gasket, Cover (paper)	26276-92	—
20	Gear, Return Drive, 1968-'99 <i>bt</i>	26315-68A	31-6013
21	Gear, Return Idler, 1968-'99 <i>bt</i>	26317-68A	31-6014
22	Gear, Supply Idler, 1936-up <i>bt</i>	26326-62A	31-6016
23	Shaft, Idler, .4243" x 1.3350", Cold Drawn Steel, AISA 1215, 1968-'99 <i>bt</i>	26327-68	31-6004
24	Gear, Supply Drive, 1936-up <i>bt</i>	26328-74	31-6015
25	Gear, Pinion, Oil Pump Drive, 24 Tooth, 1936-'69 <i>bt</i>	26345-73	33-4230
26	Shaft, Drive, Oil Pump, .4223" x 4.650", Cold Drawn Steel, AISI 1146, 1968-'99 <i>bt</i>	26346-70	31-6011
27	Key, Woodruff, .094" x .313" x .311", Steel (3) <i>each</i>	26348-15	50-8220-S
	Key, Woodruff, .094" x .313" x .311", Steel (3) <i>10 Pack</i>		50-8229
28	Retaining Ring, External, .382" x .021", Oil Pump Drive Shaft, SAE 1060-1090 <i>each</i>	26348-36	50-8058
	Retaining Ring, External, .382" x .021", Oil Pump Drive Shaft, SAE 1060-1090 <i>10 Pack</i>		50-8106
29	Valve, Pressure Relief, Oil Pump, 1984-'99 <i>bt</i>	26400-82B	31-6082
30	Plug, Pipe, 3/4 Taper, 1/8-27 NPTF x .188", Zinc, Steel (2) <i>each</i>	45830-48	50-8331
	Plug, Pipe, 3/4 Taper, 1/8-27 NPTF x .188", Zinc, Steel (2) <i>10 Pack</i>		50-1015
31	Fitting, Hose, Straight, 1/8-27 NPTF x .500", Zinc, Steel	63533-41A	50-8115
32	Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel <i>each</i>	26338-68A	106-2682
	Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel <i>5 Pack</i>		50-1007

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
	Oil Pump, Kit, Universal, w/ Gears, Polished, Billet, 1978-'91 <i>bt</i>	31-6295
	Oil Pump, Kit, w/ Gears, Pre-1989 Pinion Shaft, Polished, Billet, 1992-'99 <i>bt</i>	31-6296



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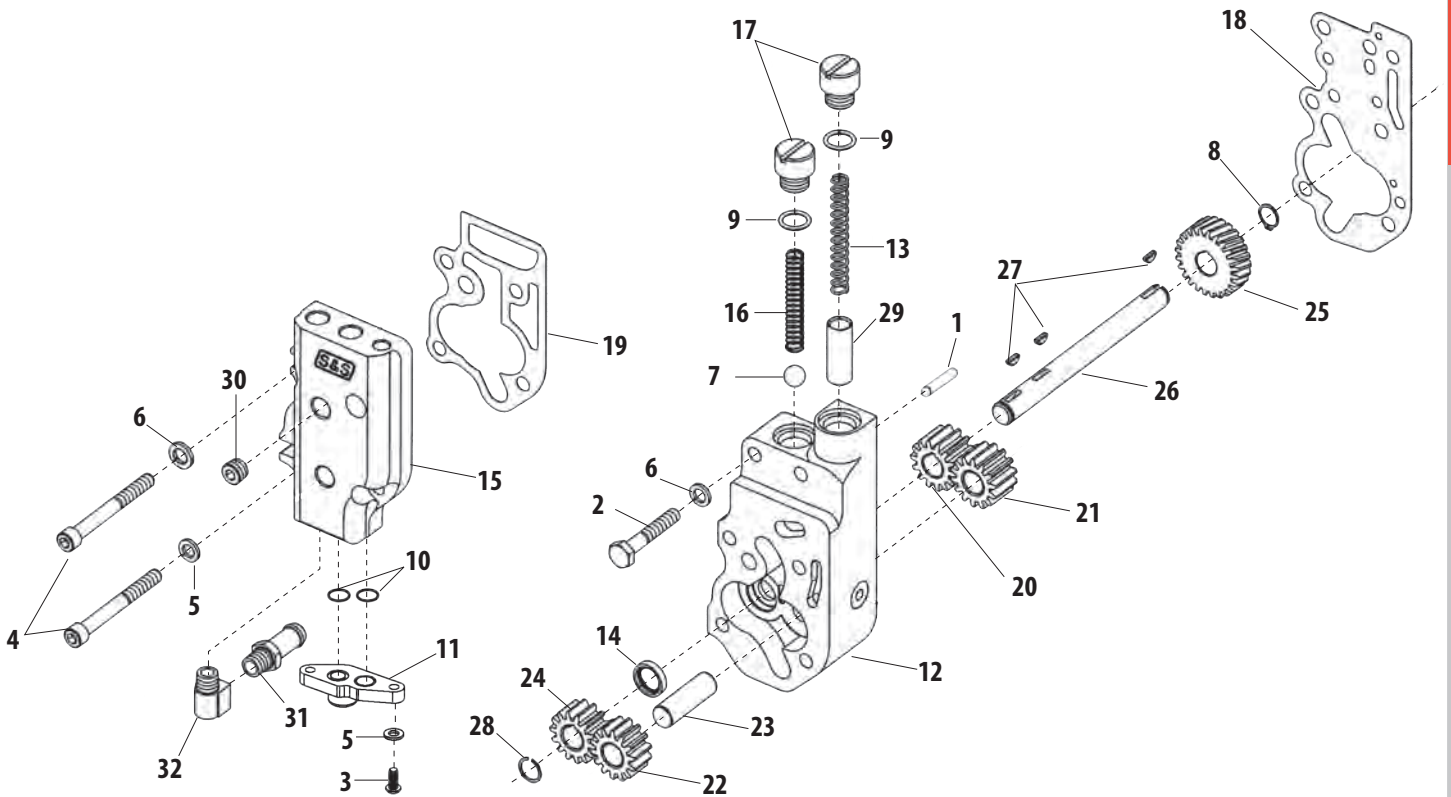
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CARBURETOR REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A <i>each</i>	3275	50-0302-S
	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A <i>10 Pack</i>		50-0302
2	Clamp (2)	10014	—
3	O-ring, Manifold, Stock Ports, 1.780" ID x 2.050" OD, Black, Viton® (2) <i>each</i>	26992-99, 26995-86B	16-0236
	O-ring, Manifold, Stock Ports, 1.780" ID x 2.050" OD, Black, Viton® (2) <i>10 Pack</i>		16-0244
4	U-ring, Manifold, 40mm Stock CV/42mm Mikuni®	27002-89	16-0242
5	Flange, Front, Manifold, 1984-2005 bt <i>each</i>	27009-86A	16-0232
	Flange, Front, Manifold, 1984-2005 bt <i>5 Pack</i>		16-0600
6	Flange, Rear, Manifold, 1984-2005 bt <i>each</i>	27010-86A	16-0233
	Flange, Rear, Manifold, 1984-2005 bt <i>5 Pack</i>		16-0601
7	Manifold, CV Carb, 1-7/8", #410, Natural, 1984-'99 bt <i>See chart for compatible Manifold</i>	27019-89A	—
8	Carburetor	27492-96	—
9	Main Jet, 1.70 mm <i>See chart for complete Jet Kit</i>	27115-88	—
10	Needle Jet	27100-88	—
11	Needle Jet Holder <i>See chart for complete Jet Kit</i>	27101-88	—
12	Lever	27126-89	—
13	Rod	27156-89	—
14	O-Ring	27157-89	—
15	Drain Screw	27158-89	—
16	Float Chamber Assembly	27159-92	—
17	Pump Housing	27160-89	—
18	Spring	27162-89	—
19	Slow Jet	27171-89	—
20	Jet Needle	27253-96	—
21	Top, Carburetor	27261-96	—
22	Screw, Top (3)	27262-96	—
23	Collar	27263-96	—
24	Boot, Accelerator Pump	27311-76	—
25	Bracket, Throttle Cables	27340-90	—
26	O-Ring	27360-76	—
27	Diaphragm, Accelerator Pump	27361-76	—
28	Spring, Diaphragm	27362-76	—
29	Clip, Overflow Hose	27368-76	—
30	Hose, Overflow with Clip	27369-76	—
31	Fitting	27371-76	—
32	Pin	27575-88	—
33	Float	27576-92	—
34	O-Ring, Float Chamber	27577-92	—
35	Vacuum Piston	27585-88	—
36	Valve, With Clip	27886-78A	—
37	Fuel Hose, Preformed	62356-95	—
38	Filter, Air, Carb, 1990-'99 bt <i>Note: The filter media is washable and reusable</i>	29330-96	106-4632

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
7	Manifold, CV Carb, S&S® Ports, 1-7/8", #410, Natural, 1984-'99 bt	16-1736
9, 11	Jet, Kit, CV Carb, 1990-'99 bt * (Assorted popular jets, needles and emulsion tubes) For more info, see S&S instruction sheet #51-1177	11-5202

* Not legal for sale or use on CA or EPA pollution controlled vehicles.

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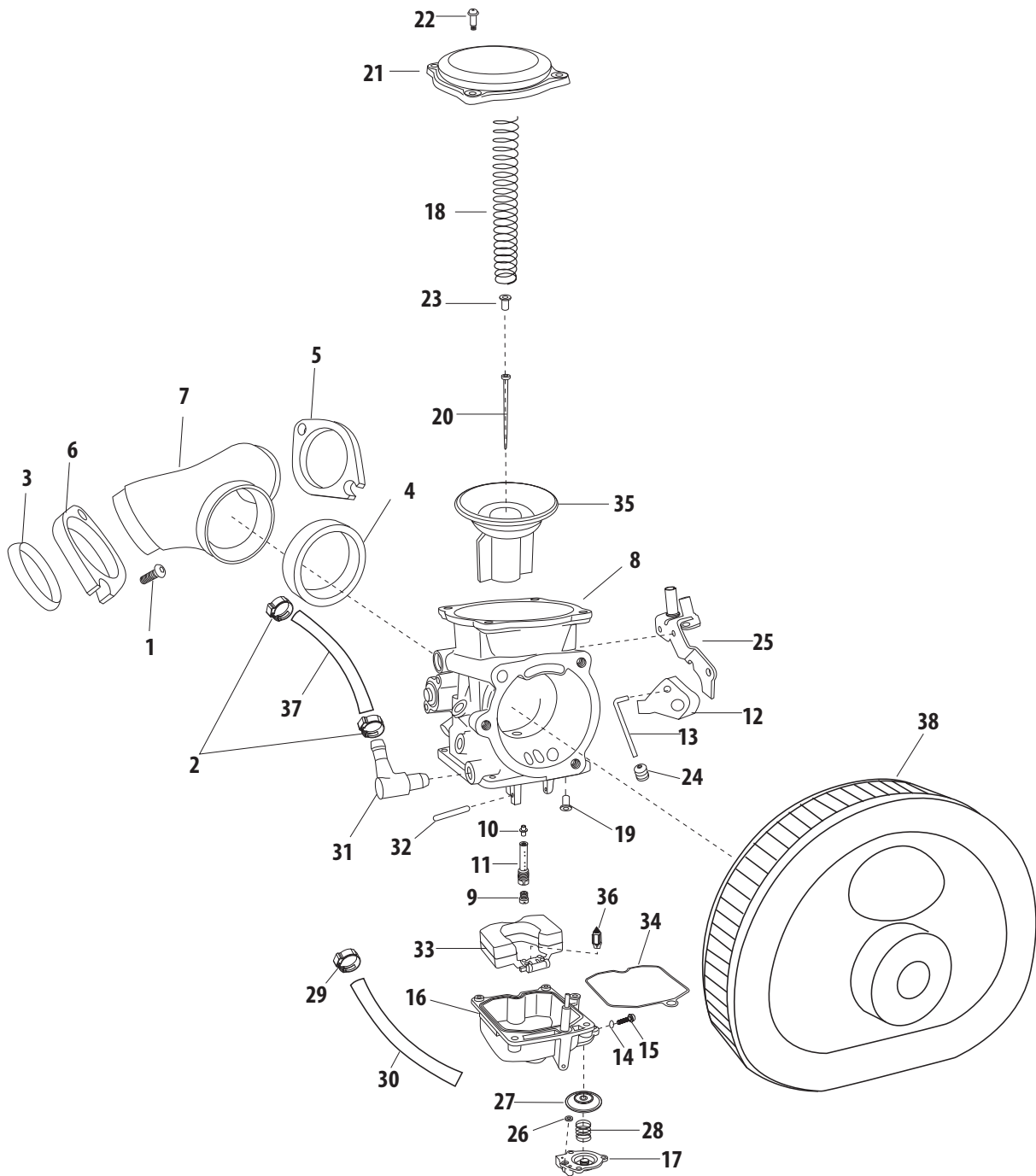
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ALTERNATOR & REGULATOR REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, #4-24 X 1/2 self tapping	2273	—
2	Screw, SHCS, 10-24 x 1", Alloy Steel <i>each</i>	2720	50-0044
	Screw, SHCS, 10-24 x 1", 10 Pack		50-0194
3	Screw, NO. 10-24 X 3/8 soc. button hd.	4134	—
4	Lockwasher, 1/4 internal tooth	7124	—
5	Nut, 1/4-20 X 1-3/8 hex hd. (Grade 2 steel)	7688	—
6	Terminal, #10 ring -12 -14 gauge	9840	—
7	Wire Terminal, ring type	9866	—
8	Wire, Tie, 8", Black, Nylon <i>each</i>	10006	50-8346-S
9	Retainer, alternator plug	29954-71A	—
10	Rotor Assembly	29957-81B	—
11	Spacer	29961-85	—
12	Stator	29970-88C	—
13	Spacer, sprocket shaft with hex 0.0 - 0.070 thick	35854-96	—
14	Cable, regulator ground	70041-95	—
15	Terminal, 1/4" ring - int. star 10-12 gauge	72242-94	—
16	Heat Shrink Tubing, dual wall - .7 x 2"	72249-94	—
17	Regulator, 22amp, 1981-'88 bt, Crane Cams® Chrome Finish	74513-82A, 74513-85, 74515-86, 74516-86	8-4061
	Regulator, 32amp, 1988-'99 bt except 1997-up FLT, Crane Cams® Chrome Finish	74519-88A, 74519-99	8-4060

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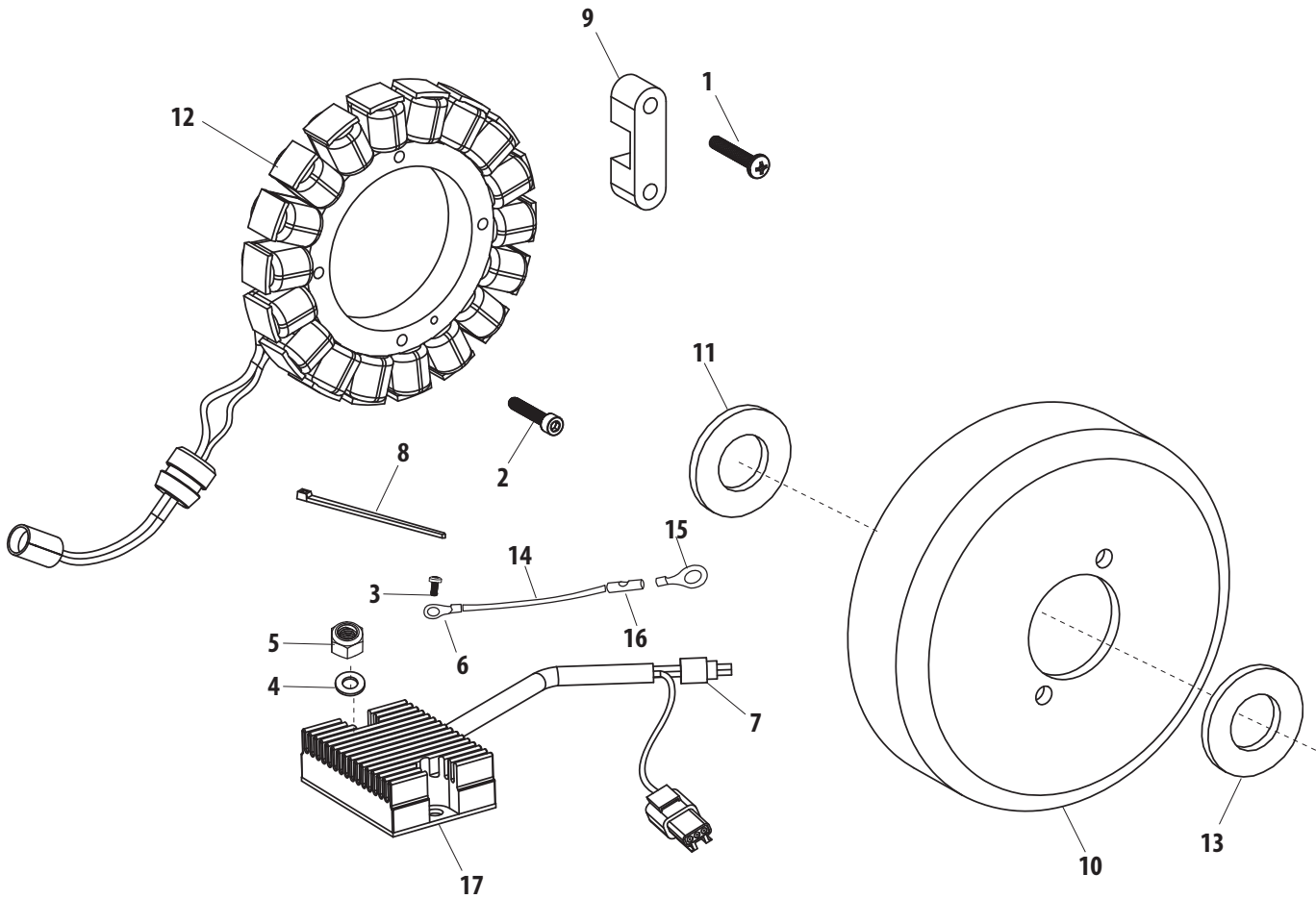
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IGNITION MODULE & COIL REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw #10-32 X 1 1/4 mach screw truss hd	949	—
2	Screw with washer (2)	3602A	—
3	Bolt, 1/4-20 x 1-1/4 hex. hd. (Grade 5 steel)	3993	—
4	Well Nut (2)	5207	—
5	Lockwasher, 1/4	7036	—
6	Nut, No.1 0-32 x 3/8 hex (keps)	7629	—
7	Terminal, spark plug cable (2)	9908	—
8	Cable strap with plug-in retainer	10177	—
9	Dual Fire Ignition Coil by Crane Cams®	31614-83A	8-3002
	Dual Fire Ignition Coil by Crane Cams® Lightweight Design		8-3006
10	Nut Plate	31727-85	—
11	Ignition Coil Cover Kit (chrome)	31800-78A	—
12	Spark Plug Cable, rear cylinder <i>See chart for Spark Plug Wire options</i>	31983-71B	—
	Spark Plug Cable, front cylinder <i>See chart for Spark Plug Wire options</i>	31985-91	—
13	Spark Plug, Resistor, 14mm (2) <i>each</i>	32342-04, 32311-83	55-1321
	Spark Plug, Resistor, 14mm (2) <i>2 Pack</i>		55-1323
14	Ignition Module with connector assembly	32449-95A	—
15	Plug, eight-way socket	72118-94BK	—
16	Socket Lock, eight-way	72158-94	—
17	Terminal, socket (7)	72191-94	—
18	Seal Pin	72195-94	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
12	Spark Plug Wires, FireWire® by Crane Cams® for 1979-'85 FX, 1984-'90 Softail®, 1991-'98 Dyna® <i>2 Pack</i>	8-5003
	Spark Plug Wires, FireWire® by Crane Cams® for 1980-'84 FLT, FLHT, FLHTC, FLTC <i>2 Pack</i>	8-5004
	Spark Plug Wires, FireWire® by Crane Cams® for 1985-'95 FLT <i>2 Pack</i>	8-5005
	Spark Plug Wires, FireWire® by Crane Cams® for 1979-'82 FLH <i>2 Pack</i>	8-5006
	Spark Plug Wires, FireWire® by Crane Cams® for 1982-'95 FXR, FXRT, FXRS <i>2 Pack</i>	8-5007
	Spark Plug Wires, FireWire® by Crane Cams® for 1991-'99 Softail® models <i>2 Pack</i>	8-5008

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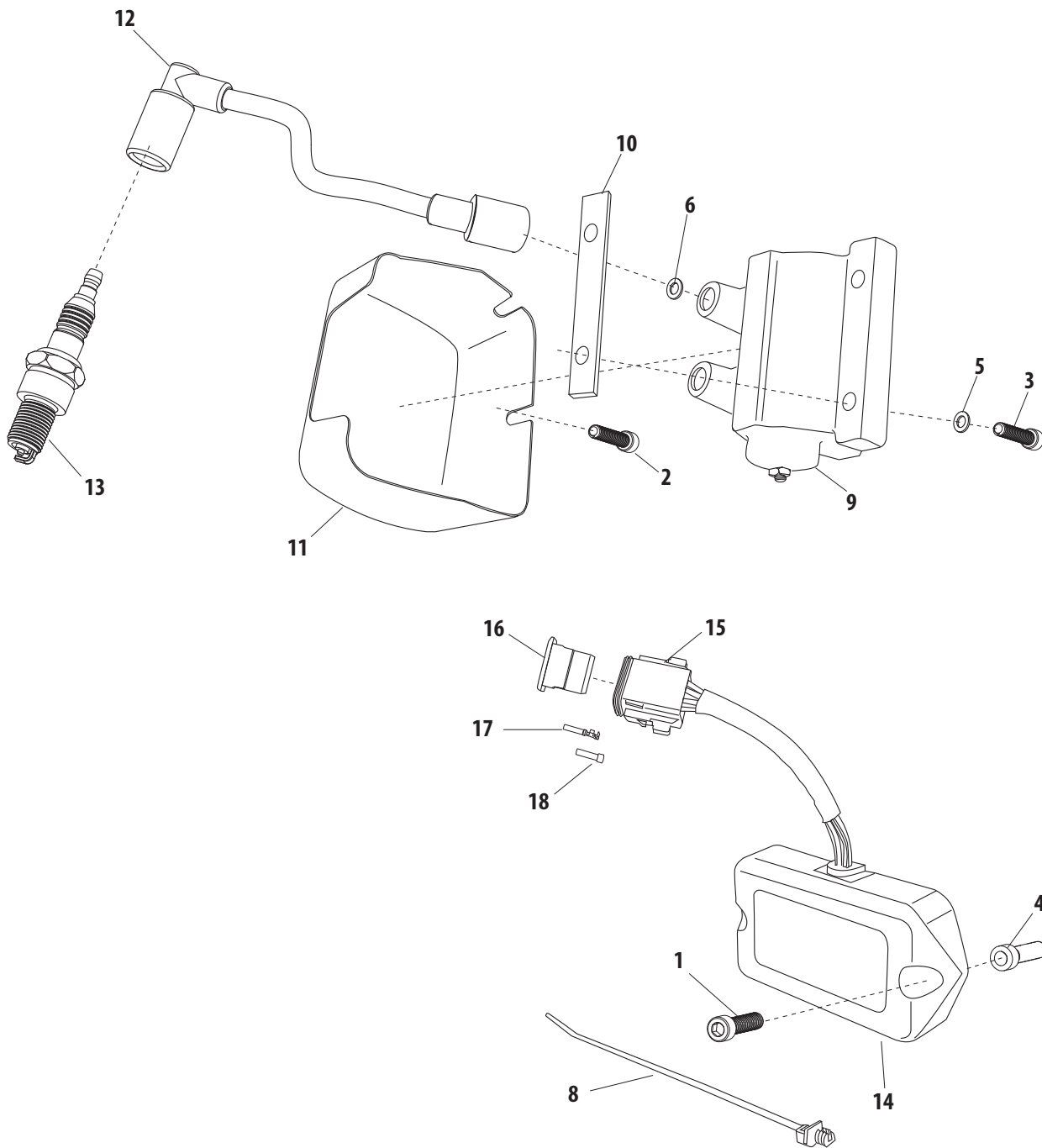
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CAM POSITION SENSOR REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

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#	Description	H-D® Part No.	VVT Part No.
1	Screw, FHCS, 8-32 x 1/2", Stainless Steel <i>each</i>	1601	50-0353-S
	Screw, FHSC, 8-32 x 1/2", Stainless Steel <i>10 Pack</i>		106-3456
2	Screw, SLTD Panhead, 10-32 x 3/4", Brass	2611B	50-0311-S
3	Rivet, Timer Cover (2)	8699	—
4	Wire, Tie, 8", Black, Nylon	10065	50-8346-S
	Cable Strap	10073	—
5	Retaining Ring	11192	—
6	Vacuum Hose Assembly	26563-95	—
7	Vacuum Switch with Connector Assembly <i>See chart for compatible assembly</i>	26555-94	—
8	Ignition Rotor by Crane Cams® with Screw	32402-83	8-1150
	Cup, Kit, Rotor, Ignition, Super Stock® (includes screw)		55-1247
9	Sensor Assembly	32448-95A	—
10	Timer Cover, Inner	32504-80	31-0215
11	Timer Cover	32524-83	—
	Screw, Timing Mechanism, Steel (2) <i>each</i>		31-0224
	Screw, Timing Mechanism, Steel (2) <i>2 Pack</i>	32606-82	31-0224P
13	Retainer, Sensor Wire, Low Carbon Steel	38711-93	31-2029
14	Receptacle -three-way	72103-94BK	—
15	Plug, two-way socket	72112-94BK	—
16	Secondary Lock, three-way receptacle	72143-94	—
17	Socket Lock, secondary, two-way	72152-94	—
18	Terminal, pin (3)	72190-94	—
19	Terminal, socket (2)	72191-94	—
20	Attachment Clip	72199-94	—
21	Gasket, Ignition Cover, 1970-'99 bt <i>each</i>	32591-70, 32591-80	31-0225
	Gasket, Ignition Cover, 1970-'99 bt <i>10 Pack</i>		31-0260

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
7	Switch, VOES, Super Stock® Ignition, w/ Connectors* <i>(Note: The S&S switch does not come with the OEM connector)</i>	55-1248*

* S&S part number 55-1248 is a vacuum switch with mounting hardware and a 9" long piece of vacuum hose. It is set for a nominal 6" Hg vacuum. Check your service manual for recommended vacuum switch setting before using this part.



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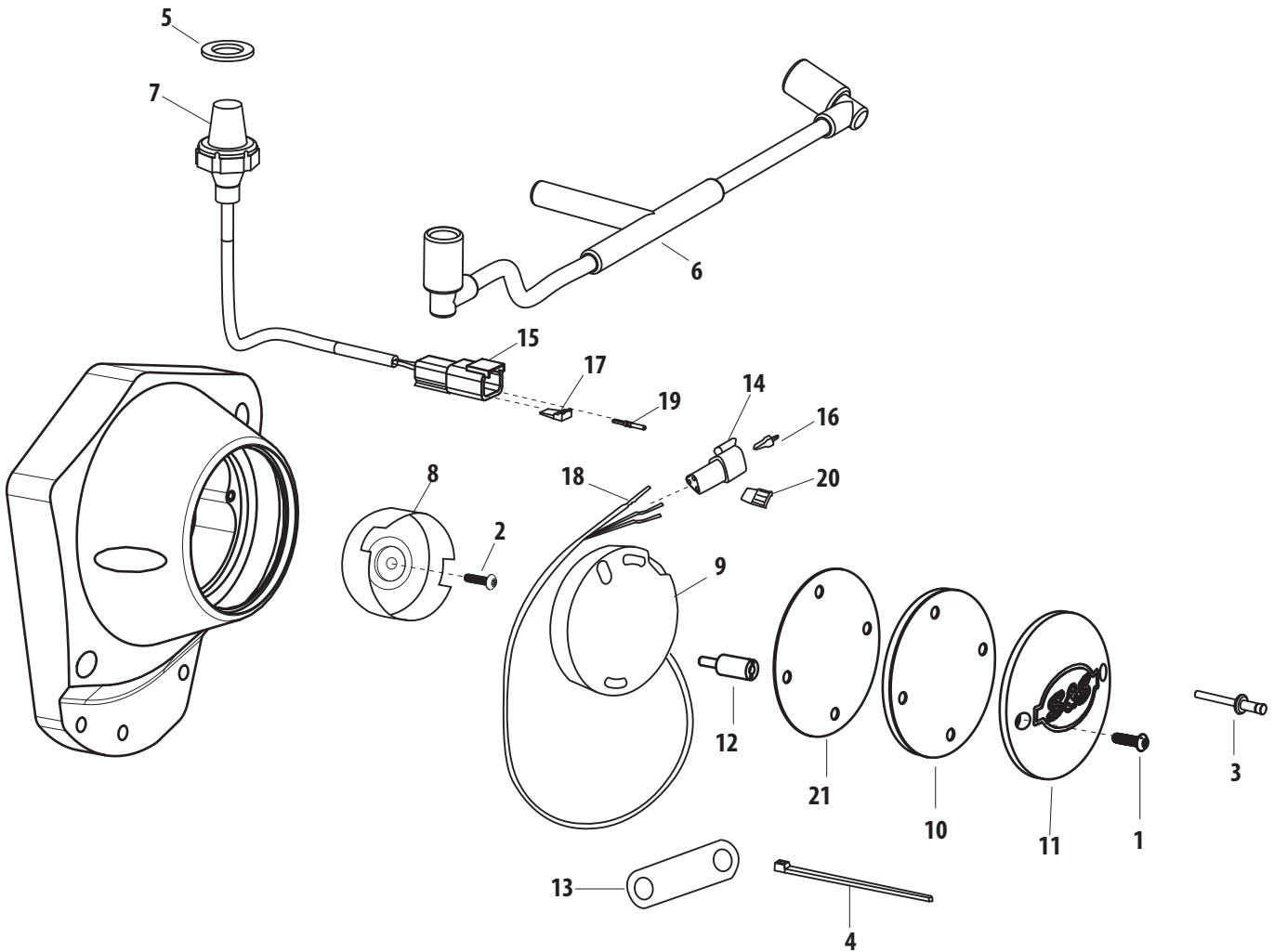
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INDUCTION MODULE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw (2)	1241	—
2	Screw, SHC, 5/16-18 x 1", Zinc, ASTM A574-92A	3201WA	50-0101
3	Bolt, 5/16-18 X 3/4 hex. hd. (Grade 5 steel) (2)	Page No.	50-0108
4	Clamp (4) (Not Shown)	10150	—
5	Retaining Ring (2)	11150	—
6	O-Ring	11170	—
7	O-ring, Manifold, Stock Ports, 1.780" ID x 2.050" OD, Black, Viton® (2) <i>each</i>	26992-99, 26995-86B	16-0236
	O-ring, Manifold, Stock Ports, 1.780" ID x 2.050" OD, Black, Viton® (2) <i>10 Pack</i>		16-0244
8	Flange, Front, Manifold, 1984-2005 bt, 1986-2006 xl <i>each</i>	27009-86A	16-0232
	Flange, Front, Manifold, 1984-2005 bt, 1986-2006 xl, <i>5 Pack</i>		16-0600
	Flange, Rear, Manifold, 1984-2005 bt, 1986-2006 xl <i>each</i>	27010-86A	16-0233
	Flange, Rear, Manifold, 1984-2005 bt, 1986-2006 xl, <i>5 Pack</i>		16-0601
9	Induction Module Assembly, with 27237-95 & 27244-95	27202-95	—
10	O-Ring, Fuel Fitting - Upper (2)	27237-95	—
11	O-Ring, Fuel Fitting - Center (2)	27244-95	—
12	Spacer, Crankshaft Position Sensor (Not Shown)	29991-95	—
13	Sensor, Crankshaft Position	32447-95	—
14	Sensor, Kit, Throttle Position, VFI	27271-95	55-5058
15	Sensor, Kit, Temperature, Intake Air	27270-95	55-5041

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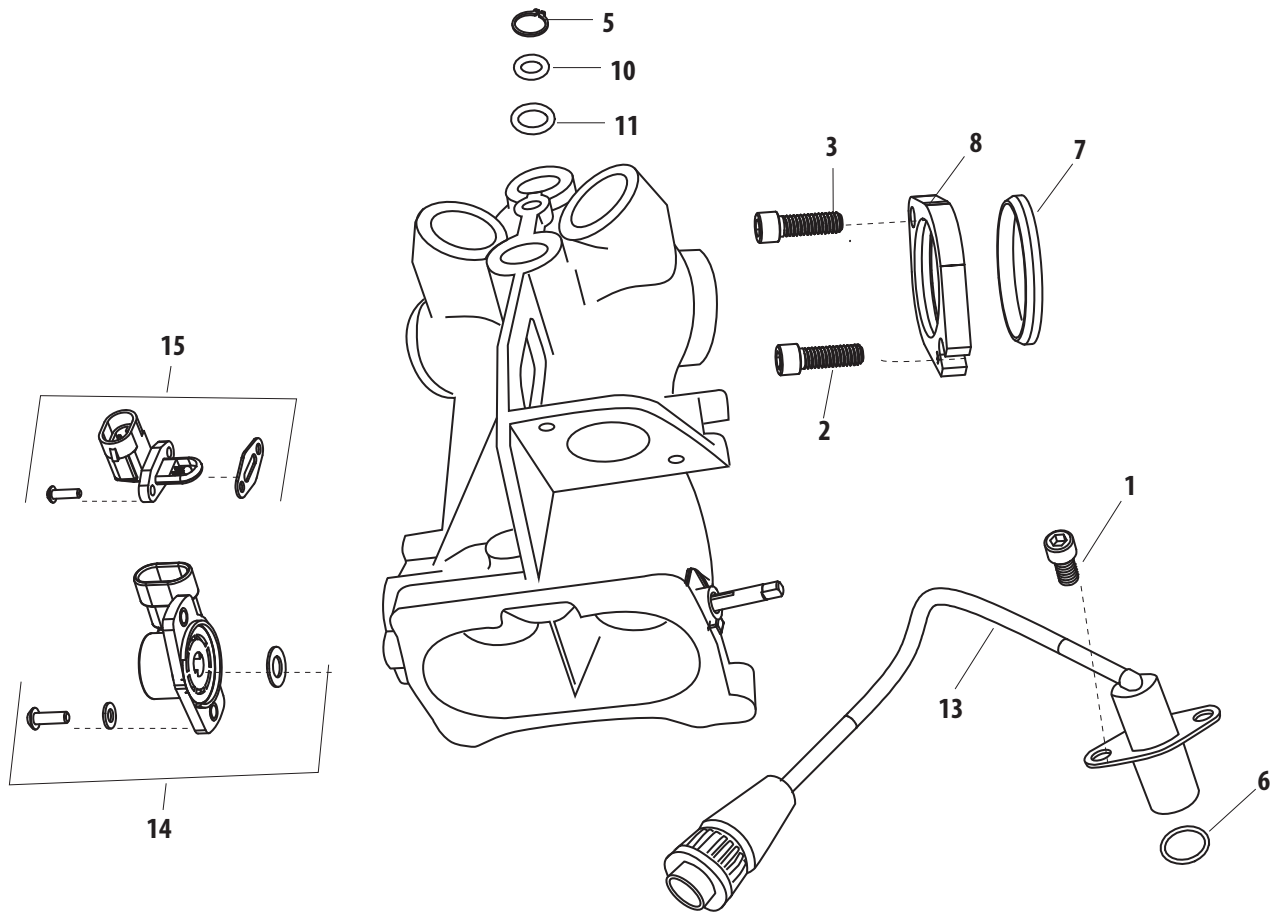
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TRANSMISSION HOUSING REPLACEMENT PARTS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Pin, Dowel, .312" x 1", Steel	337	50-8171
2	Pin, Dowel, .308" x .700", Steel	375	50-8029
3	Pin, Roll, .392" x .320", Steel (6)	609	50-8173
4	Pin, Roll, .328" x .760", Zinc, Steel <i>each</i>	634	50-8175
	Pin, Roll, .328" x .760", Zinc, Steel <i>10 Pack</i>		106-3175
5	Plug, Pipe, Magnetic, 1/8-27 NPTF x .375", Zinc, Steel	739A	50-8334
6	Screw, SHC, 5/16-18 x 1-1/4", Zinc, ASTM A574-92A	3210A	50-0121
	Screw (2)	3277	—
7	Screw, 1/4-20 x 5/8 hex socket head cap	3594	—
8	Screw, 1/4-20 x 2-1/4 knurled socket hd. (w/lockpatch)	4717A	—
9	Screw, 1/4-20 x 1-1/4 knurled socket hd. (w/lockpatch)	4740A	—
10	Screw, 1/4-20 x 1-1/8 knurled socket hd. (w/lockpatch)	4814A	—
11	Washer, 11/32 x 11/16 x 1/16	6016	—
12	Ball, Check Valve, .375", Stainless Steel (3)	8866, 8873	50-8091
13	Bearing, Needle, Transmission Countershaft, 1984-'99 bt Left Hand	8977	56-3031
14	Bearing, Ball, Transmission Mainshaft, 10 Balls, 45mm x 85mm x 19mm	8996A	56-1280
15	Bearing, Ball, Transmission Countershaft, Left Hand, 20mm x 47mm x 14mm, 1991-'06 bt (2)	8998	56-3026
16	Retaining Ring, Internal, HO-212	10998	50-8448-S
17	O-Ring, Filler Plug	11132	—
18	Retaining Ring, Internal, 3.734" x .109", Carbon Steel, SAE 1060-1090	11161	50-8051
19	O-ring, Quad Seal, (-031), 1.734" X 1.875", Black, Nitrile	11165	50-8045
20	O-ring, clutch cable	11179	—
21	O-ring	11290	—
22	Stud, 3/8-24 UNF, 7/16-14 ONF x 1.30, Zinc (5)	11733A	50-8084
23	Seal, Transmission Output Shaft, 2.255" x 3.388" x .250, 1994-'99 bt, 1995-'03 xl	12067B	56-3033
24	Inner Ramp	25452-87A	—
25	Outer Ramp	25453-87A	—
26	Transmission (Chrome & Black)	33006-98	—
	Transmission (Chrome & Black)	33007-98	—
27	Guide, Shifter Shaft, 5 Speed Rigid Mount, 1986-'99 bt	33114-79	56-1067
28	Spacer, Sprocket	33344-94	—
29	Switch, Neutral Indicator, With O-Ring	33902-95	—
30	Cover, Transmission Top, S&S® 6 Speed, Chrome, Cast, 1991-'99 Softail®, 1991-2000 FLT	34468-86A, 34464-86A, 34468-98A	56-5115
31	Transmission Case, Assembly, 5 Speed, w/ Bearings & Seals, Wrinkle Black, 1989-'99 bt	34732-89A, 34732-96	56-1047
32	Gasket, Top Cover, Transmission, 6 Speed, 1991-2006 Softail®, FLT	34904-86D	56-5107-S
33	Retaining Ring, Internal, 2.054" x .062", Carbon Steel, SAE 1060-1090	34920-86	—
34	Retaining Ring, bearing (2)	35021-89	50-8053
35	Trap Door, Transmission, 5 Speed Rigid Mount, Machined & Natural, Billet, 1986-'99 bt	35258-87C	56-1025
36	Spacer (2)	35076-79	—
37	Nut, Jam, HH, 3/4-16 UNF-2B, Steel/Nylon	35078-79	56-1278-S
38	Gasket, Trap Door, Transmission, 5 Speed	35652-79B, 35653-98A	56-1026
39	Gasket, Side Cover, Transmission, 6 Speed <i>each</i>	35652-76B, 36801-87C	56-5111-S
	Gasket, Side Cover, Transmission, 6 Speed <i>10 Pack</i>		56-5111
40	Dipstick	37071-87, 37075-87	56-5132
41	Clutch Release Cover (chrome) <i>See chart #53 for complete Transmission Side Cover assembly</i>	37105-87A	—
42	Vent Hose	42533-91	—
43	Fitting, Upper Cover	62375-57	—
44	Sensor, Speedometer	74437-96	—
45	O-ring	11140	—
46	Secondary Lock, Three-Way Receptacle	72143-94	—
47	Receptacle, 3-Way Pin	72163-94BK	—
48	Terminal, Pin (3)	72190-94	—
49	Attachement Clip	72199-94	—
50	Trap Door, Kit, Transmission, 5 Speed, Silver, 1986-'99 bt <i>See chart for compatible Trap Door Kit</i>	35251-93C	—
51	Screw, Shift Lever Adjust, 5 Speed, Black, bt	33119-79B	56-1002
52	Nut, HH, 7/16-14 UNC-3B x .260", Zinc Plated, Steel <i>each</i>	7515	50-5044
	Nut, HH, 7/16-14 UNC-3B x .260", Zinc Plated, Steel <i>10 Pack</i>		106-3173

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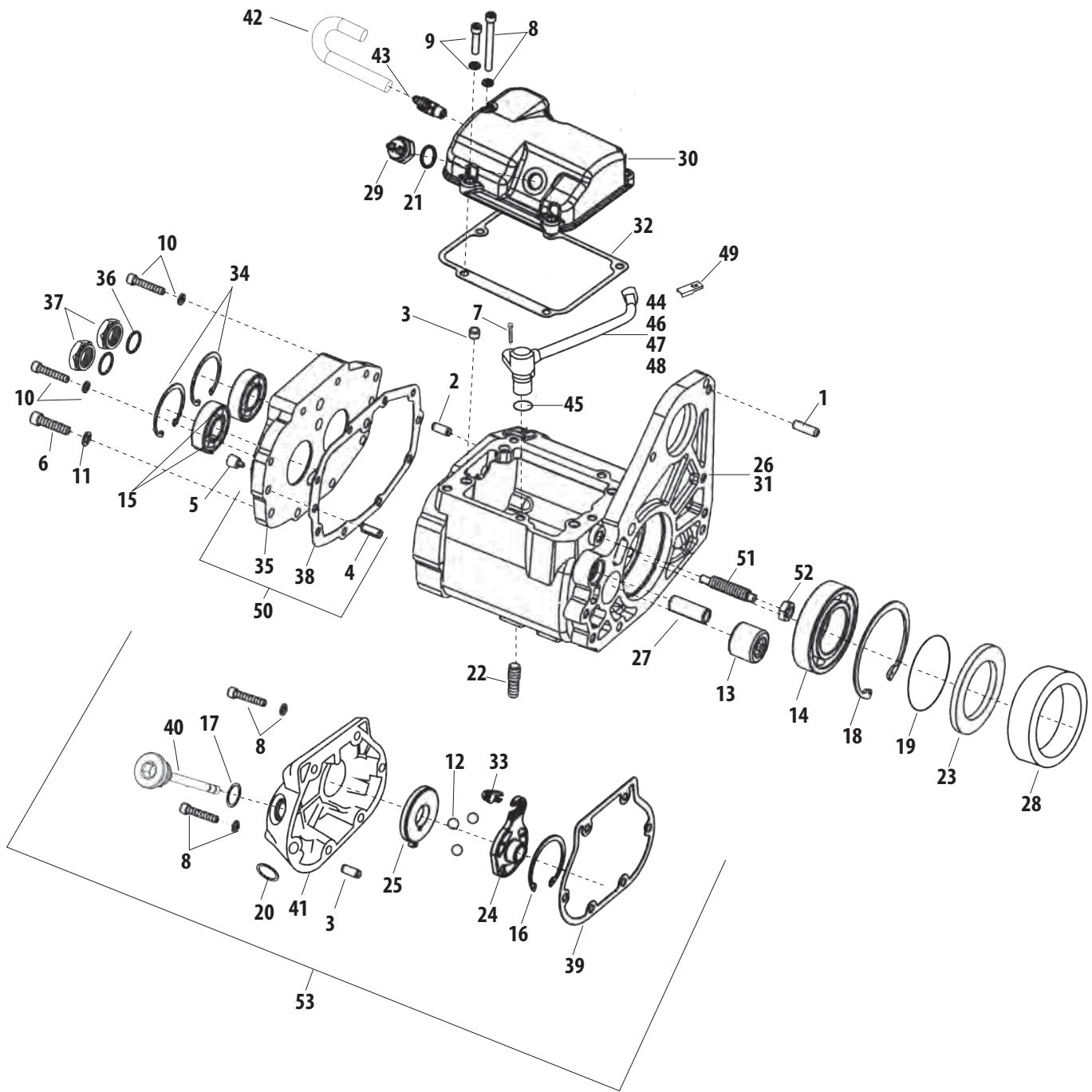
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#	Description	VVT Part No.
50	Trap Door, Kit, Transmission, 5 Speed, Natural, Billet, 1986-'99 bt	56-1027
53	Cover, Assembly, Transmission Side, Hydraulic Clutch, Chrome	106-3885
	Cover, Assembly, Transmission Side, Mechanical Clutch, Chrome	106-4035

Note: VVT parts cross referenced to stock OEM parts are functionally identical, but may differ slightly in appearance. Line drawings are a typical representation and may not be an exact match. Please confirm the required stock part number for intended application before ordering. All reference to H-D® part numbers are for identification purposes only. We are in no way implying that any of the VVT products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.

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CLUTCH FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw (6)	2980	—
2	Locknut	7848W	—
3	Retaining Ring	11096	—
4	Pushrod End	37069-90	—
5	Pushrod, Clutch Release	37088-90	—
6	End, Pushrod - Left	37090-98	—
7	Bearing, Pushrod	37312-75	—
8	Thrust Washer (2)	37313-80	—
9	Nut, Mainshaft	37496-90	—
10	Clutch Hub	37550-98	—
11	Clutch Shell & Sprocket with Ring Gear, 37905-90 & 37906-90 <i>See Chart For Complete Clutch Kit Options</i>	37707-98	—
12	Spring, Diaphragm	37871-98	—
13	Retainer, Diaphragm Spring	37872-98	—
14	Seat, Damper Spring	37883-98	—
15	Damper Spring	37884-98	—
16	Release Plate	37903-90	—
17	Retaining Ring, Internal	37904-90	—
18	Retaining Ring, Internal	37905-90	—
19	Bearing, Ball - Double Row	37906-90	—
20	Retaining Ring, Internal	37909-90	—
21	Pressure Plate	37912-98	—
22	Steel Plate (8)	37913-98	—
23	Friction Plate Kit, Includes All Nine Friction Plates	37932-98	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
	Clutch, Kit, 36 Tooth Sprocket, Mechanical Actuation, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except '06 Dyna®	56-5150A
	Clutch, Kit, 37 Tooth Sprocket, Mechanical Actuation, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5151A
	Clutch, Kit, 36 Tooth Sprocket, Use w/ H-D® Hydraulic Actuator, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5152A
	Clutch, Kit, 37 Tooth Sprocket, Use w/ H-D® Hydraulic Actuator, S&S® High Performance Clutch, Updated Design, 1991-2006 bt, Except Dyna®	56-5153A

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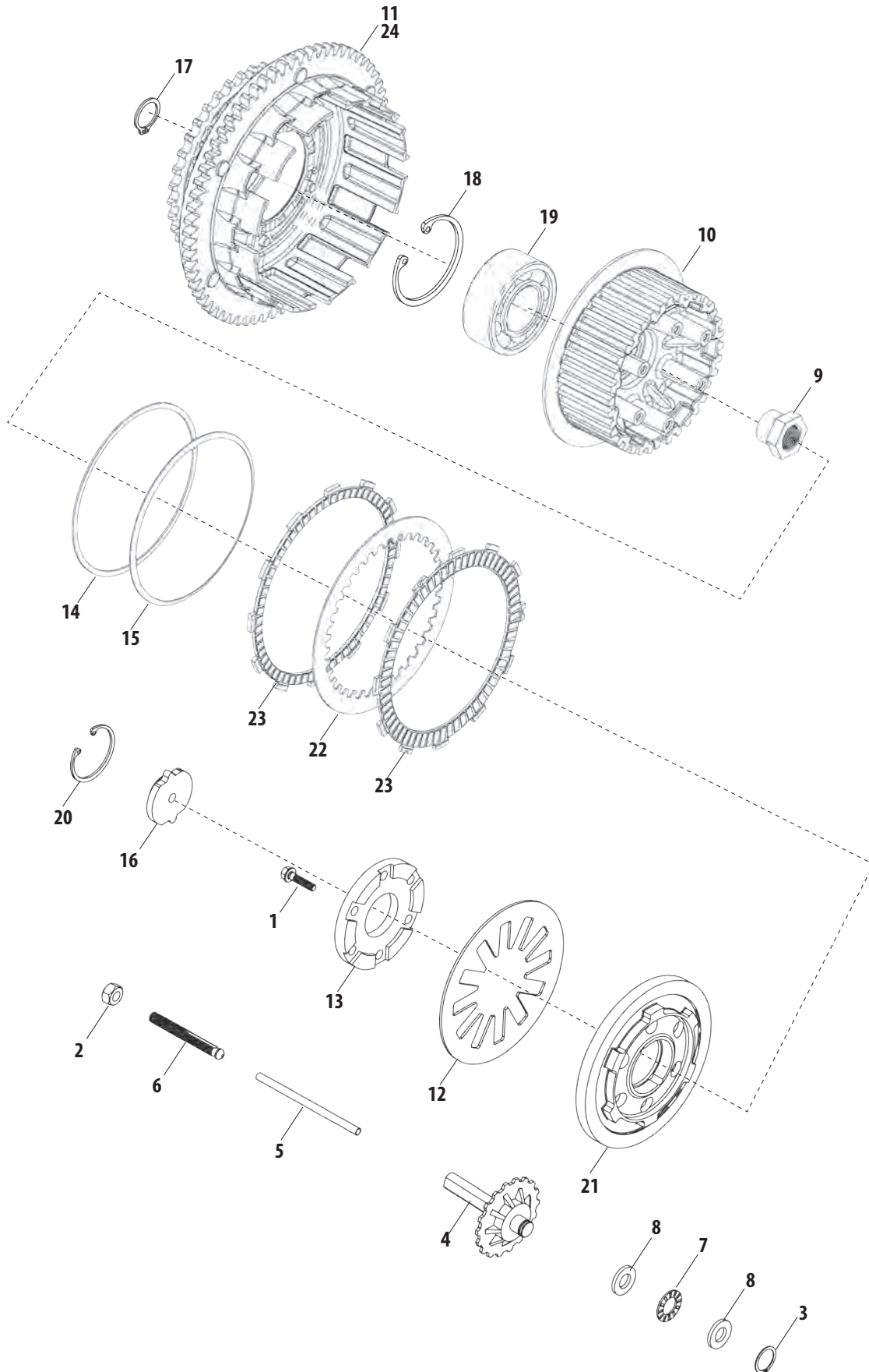
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BELTS, CHAINS AND SPROCKETS FOR HARLEY-DAVIDSON® EVOLUTION® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, 5/16-18 x 7/8 Pozidriv flat ctsk. hd. (Grade 2 steel)	1783	—
2	Bolt, 1/4-28 x 2 hex. hd. (Grade 5 steel)	2614	—
3	Screw, SHC, 1/4-20 x 5/8", Zinc, Steel	3594	50-0071
4	Carriage Bolt, 3/8-16 x 1 (Grade 5 steel)	5444	—
5	Washer, 5/16 x 13/16 x 3/32	6400HB	—
6	Washer, 1/4 x 5/8 x 1 1/6	6703	—
7	Locknut, 3/8-16 x 7/16 x 9/16 hex.	7778	—
8	Spacer, sprocket shaft with hex 0.0 - 0.070 thick	35854-96	—
9	Spacer	29960-91	—
10	Nut, Sprocket	35211-91A	—
11	Pad, Chain Tensioner	39976-65B	—
12	Chain Tensioner	39990-65	—
13	Chain Tensioner MTG. kit, w/#4, 5 & 7	39992-65C	—
14	Plate, Chain Tensioner	39993-65	—
15	Lockwasher, Chain Tensioner Plate	39996-65	—
16	Anchor Plate, Chain Tensioner	39998-65	—
17	Rear Belt - 130 T <i>See chart for belt options</i>	40017-94	—
18	Primary Chain	40007-36A	—
19	Sprocket, Transmission, 32 T	40250-94A	—
20	Sprocket, Rear, 65 T - (Silver)	40311-94	—
	Sprocket, Rear, 65 T - (Black)	40312-94	—
21	Lockplate	40251-92A	—
22	Shaft Extension	40266-85	—
23	Compensating Sprocket, 25 T	40308-94	—
24	Sliding Cam	40299-83A	—
25	Cover Assembly, w/springs	40384-91	—
26	Nut	40392-91	—

GATES® CARBON FIBER X3N SECONDARY DRIVE BELTS (14MM PITCH)

Teeth	1 1/8" Wide	1 1/2" Wide
125	106-0357	—
126	—	106-0348
127	—	106-0349
128	106-0358	106-0350
130	106-0359	106-0351
132	106-0360	106-0352
133	106-0361	106-0353
135	106-0362	106-0354
136	—	106-0355
139	106-0363	106-0356
149	106-1338	—
156	—	106-2827

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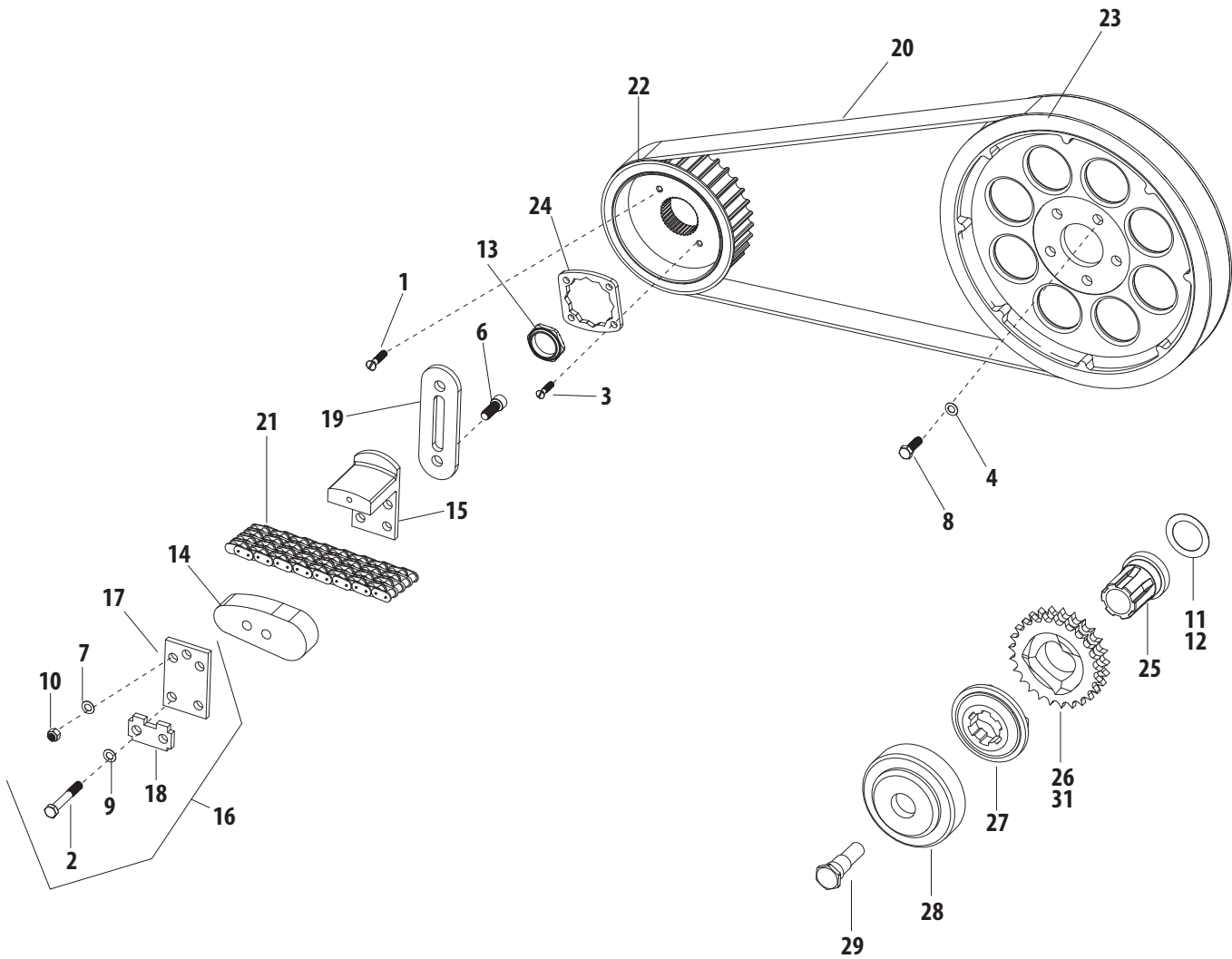
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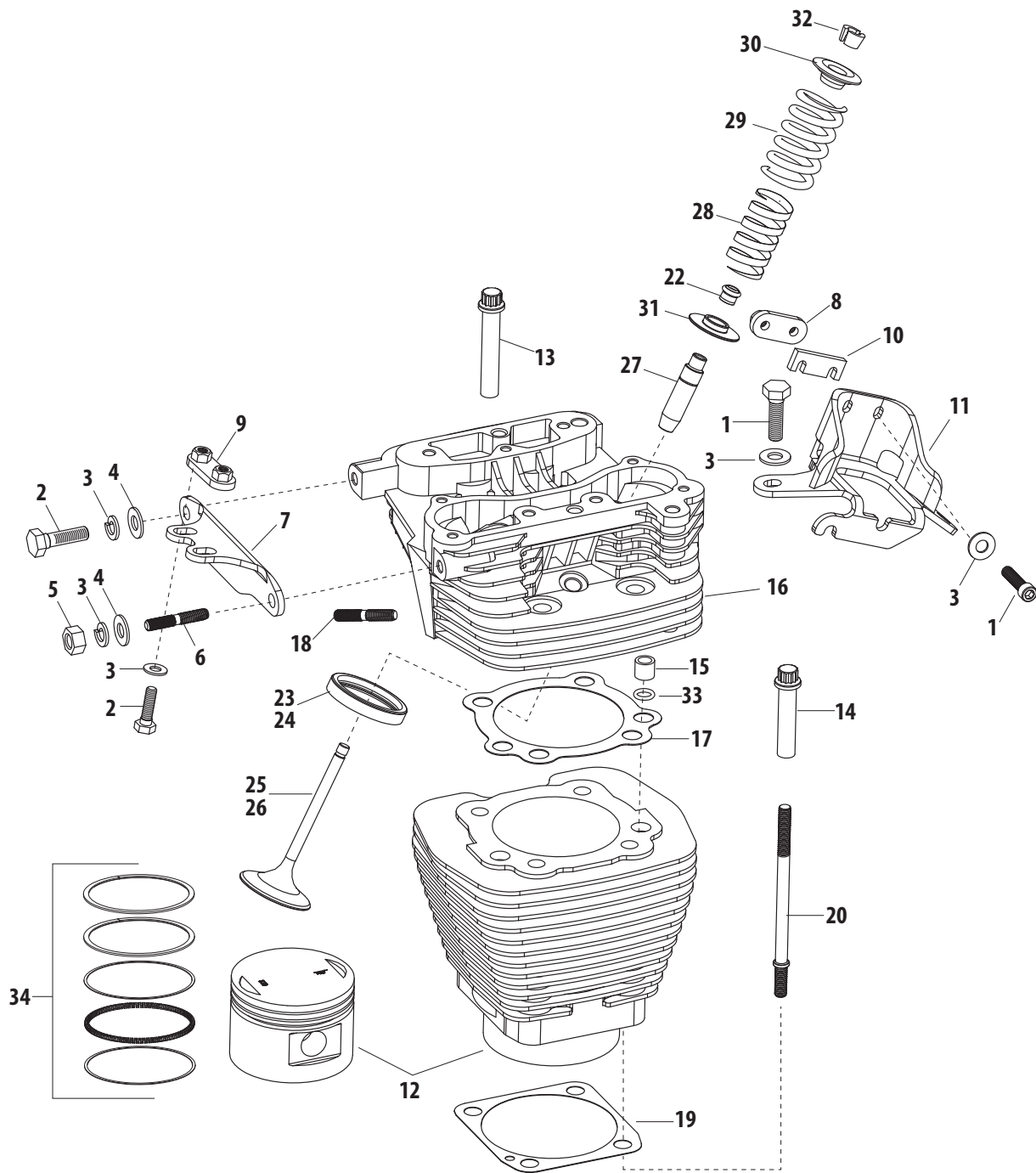
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#	Description	H-D® Part No.	VVT Part No.
1	Screw, 3/8-16 x 1 7/32 truss head machine (grade 8 steel)	951A	—
2	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel <i>each</i>	4716W	50-0168
	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel <i>10 Pack</i>		106-3063
3	Washer, 3/8 x 13/16 x 1/16	6701	—
4	Washer, Lock, .385" x .680" x .094", Zinc, Steel	7038	50-7052
5	Nut, HH, 3/8-24 UNC-2B x .337", Zinc, Steel	7861	50-5037
6	Stud, Head Mount, 3/8-24, 3/8-16 ONF x 1.500", Zinc, Steel, 1986-2003 xl	11727A	90-1005
7	Mount, Front, Engine, Semi-Gloss Black, Steel, 1986-03 xl	16214-86, 16222-86	93-4056
8	Nut Plate	16226-94	—
9	Nut Plate	16228-86A	—
10	Shim, 0.030	16233-86	—
11	Bracket, Center Engine Mount <i>See chart for compatible Engine Mount Kit</i>	16278-95B	—
12	Cylinder Assembly with Piston (883cc) <i>See chart for Cylinder only options</i>	16446-86B	—
	Cylinder Assembly with Piston (1200cc) <i>See chart for Cylinder only options</i>	16447-88A	—
13	Head Bolt, 12 pt, 3/8-16, long <i>See chart for complete Head Bolt Kit</i>	16478-85A	—
14	Head Bolt, 12 pt, 3/8-16, short <i>See chart for complete Head Bolt Kit</i>	16480-92	—
15	Pin, Dowel, .557" x .500", Black, Steel <i>each</i>	16573-83A	50-8023
	Pin, Dowel, .557" x .500", Black, Steel <i>10 Pack</i>		50-8109
16	Head, Rear Cylinder, w/Valve Guides & Seats	16660-92A	—
	Head, Front Cylinder, w/Valve Guides & Seats	16661-92A	—
	Head, Front Cylinder, w/Valve Guides & Seats	16688-92	—
	Head, Rear Cylinder, w/Valve Guides & Seats	16698-92	—
	Head, Front Cylinder, w/Valve Guides & Seats	16630-98	—
	Head, Rear Cylinder, w/Valve Guides & Seats	16633-98	—
17	Gasket, Head, .0625", 3-1/2", Graphite, (1200cc) 1986-2012 xl <i>each</i>	10773-85	93-1313-S
	Gasket, Head, .0625", 3-1/2", Graphite, (1200cc) 1986-2012 xl <i>10 Pack</i>		93-1051
	Gasket, Head, .045", 3-1/2", Graphite, (1200cc) 1986-2012 xl <i>each</i>		16770-84F
Gasket, Head, .045", 3-1/2", Graphite, (1200cc) 1986-2012 xl <i>10 Pack</i>	93-1024		
18	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel <i>each</i>	16715-83	50-0493
	Stud, Exhaust Port, 5/16-18, 5/16-24 x 1.910", Zinc, Steel <i>5 Pack</i>		50-1028
19	Gasket, Base, .018", 3-1/2", Graphite, (883cc) 1986-2012 xl	16777-83A, 16774-86D	93-1038-S
20	Stud, Cylinder Base, 3/8-16 UNC x 5.760", 1986-2012 xl <i>each</i>	16832-86C	31-2331-S
	Stud, Cylinder Base, 3/8-16 UNC x 5.760", 1986-2012 xl <i>8 Pack</i>		31-2331
21	Gasket Kit, Engine Overhaul (not shown)	17026-918	—
	Gasket Kit, Top Overhaul (not shown)	17032-91	—
	Gasket Kit, Rocker Covers (not shown)	17036-91	—
22	Seal, Valve Guide, 1986-2003 xl <i>each</i>	18001-83B	90-2008
	Seal, Valve Guide, 1986-2003 xl <i>8 Pack</i>		90-2158
23	Insert, Exhaust Valve Seat 1200	18011-87	—
	Insert, Exhaust Valve Seat 883	18012-87	—
24	Insert, Intake Valve Seat 1200	18020-87	—
	Insert, Intake Valve Seat 883	18021-87	—
25	Intake Valve 1200cc	18023-87	—
	Intake Valve 883cc	18031-86	—
26	Exhaust Valve 1200cc	18024-87	—
	Exhaust Valve 883cc	18030-86	—
27	Valve Guide, Intake/Exhaust, Standard, Cast Iron, 1986-2003 xl	18112-92	90-2210
	Valve Guide, Intake/Exhaust, +.001", Cast Iron, 1986-2003 xl	18130-83C	90-2211
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, 1986-2003 xl	18133-83A	90-2212
	Valve Guide, Intake/Exhaust, +.003", Cast Iron, 1986-2003 xl	18131-83C	90-2213
28	Valve Spring, Outer <i>See chart for complete Valve Spring Kit</i>	18201-83	—
29	Valve Spring, Inner <i>See chart for complete Valve Spring Kit</i>	18202-83	—
30	Collar, Valve Spring - Upper	18219-83	—
31	Collar, Valve Spring - Lower	18222-83A	—
32	Valve Keeper, Standard, 1986-03 xl <i>each</i>	18229-83	90-2094-S
	Valve Keeper, Standard, 1986-03 xl <i>8 pack</i>	18229-83	50-7166
33	O-ring, Oil Return, (-015), .562" ID x .068" OD, Black, Viton®, 1986-12 xl <i>each</i>	26432-76A	50-8034-S
	O-ring, Oil Return, (-015), .562" ID x .068" OD, Black, Viton®, 1986-12 xl <i>2 Pack</i>		50-8034
34	Ring, Set, Piston, 3-1/2", Standard, Moly Faced, .0625, .0625, .1525, 1984-'99 bt, 1986-2003 xl	21920-83	94-2216X
	Ring, Set, Piston, 3-1/2", +.005", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21921-83	—
	Ring, Set, Piston, 3-1/2", +.010", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21922-83	94-2217X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21923-83	94-2218X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21924-83	94-2219X
	Ring, Set, Piston, 3", Standard, 883, 1986-2003 xl	22266-86	—
	Ring, Set, Piston, 3", .010", 883, 1986-2003 xl	22261-86	—
	Ring, Set, Piston, 3", .020", 883, 1986-2003 xl	22262-86	—
Ring, Set, Piston, 3", .030", 883, 1986-2003 xl	22263-86	—	
Ring, Set, Piston, 3", .005", 883, 1986-2003 xl	22271-86	—	



NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
11	Mount, Top, Engine, 2-Piece, Semi-Gloss Black, Steel, 1986-up xl	93-4055
12	Cylinder, Set, 3-1/2" Bore, 4.650", Natural, 1986-2003 xl	91-3010
	Cylinder, Front, 3-1/2" Bore, 4.650", Natural, 1986-2003 xl	91-3010F
	Cylinder, Rear, 3-1/2" Bore, 4.650", Natural, 1986-2003 xl	91-3010R
	Cylinder, Set, 3-1/2" Bore, 4.650", Wrinkle Black, 1986-2003 xl	91-3904
	Cylinder, Front, 3-1/2" Bore, 4.650", Wrinkle Black, 1986-2003 xl	91-3904F
	Cylinder, Rear, 3-1/2" Bore, 4.650", Wrinkle Black, 1986-2003 xl	91-3904R
13,14	Head Bolt, Kit, 12 pt, 1986-2012 xl	93-3010
28, 29	Spring, Kit, Valve, Dual, Steel, .585", 1986-2003 xl	90-2277

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ROCKER ARMS, COVERS AND PUSHRODS FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, 1/4-20 x 7/8 Knurled Socket Hd. (Grade 8) <i>See chart for compatible screw</i>	882	—
2	Screw, 1/4-20 x 7/8 Knurled Socket Hd.	884A	—
3	Screw, HHC, 5/16-18 x 3/4", Zinc	3228	106-5039
4	Screw, SHCS, 1/4-20 x 1-1/2", Zinc	4718A	50-0079
5	Bolt, 5/16-18 x 2-3/4 hex. hd.(Grade 8 steel)	3500A	—
6	Screw, HHC, Gr8, 5/16-18 x 2-1/2", Zinc, Steel <i>each</i>	3501A	50-0104
	Screw, HHC, Gr8, 5/16-18 x 2-1/2", Zinc, Steel <i>5 Pack</i>		50-1000
7	Bolt, 1/4-20 x 1-1/4 hex. hd. (grade 8)	3997A	—
8	Washer, Flat, .344" x .688" x .065", Zinc, Steel	6016	50-7034
9	Washer, .25 x .4375 x .062", Zinc, Steel	6099	—
10	Washer, Flat, .281" x .625" x .080", Zinc, Steel <i>each</i>	6736	50-7021
	Washer, Flat, .281" x .625" x .080", Zinc, Steel <i>10 Pack</i>		50-7074
11	O-ring	11176	—
12	O-ring, Top, PR Cover, (-209), .687" ID, for 2004-2012 xl models <i>each</i>	11190	50-8039
	O-ring, Top, PR Cover, (-209), .687" ID, for 2004-2012 xl models <i>5 Pack</i>		50-8200
	O-ring, Top, PR Cover, (-209), .687" ID, for 2004-2012 xl models <i>10 Pack</i>		93-4110
13	Gasket, Bottom Right, Rocker Cover, .018", Graphite, 1986-2003 xl <i>each</i>	16778-84A	90-4058
	Gasket, Bottom Right, Rocker Cover, .018", Graphite, 1986-2003 xl <i>10 Pack</i>		90-4062
14	Gasket, Bottom Left, Rocker Cover, .018", Graphite, 1986-2003 xl <i>each</i>	16779-84D	90-4059
	Gasket, Bottom Left, Rocker Cover, .018", Graphite, 1986-2003 xl <i>10 Pack</i>		90-4063
15	Gasket Kit, Rocker Covers, w/#13, 14, 16, 17, 18, 32 & 34	17036-91	—
16	Gasket, Rocker Cover - Lower	17353-89	—
17	Gasket, Top, Rocker Cover, Cork, 1991-2003 xl	17354-89	90-4020
18	Gasket, Middle Inner, Rocker Cover, Cork, 1986-2012 xl	17358-84A	90-4018
	Gasket, Middle Inner, Rocker Cover, Rubber 1986-2012 xl		90-4042
19	Rocker Arm, Assembly, RE/FI, Non-Roller, 1.625:1 Ratio, 1986-2012 xl <i>Also available as a complete Rocker Arm Set, see chart</i>	17360-83A	900-4119RA
20	Rocker Arm, Assembly, FE/RI, Non-Roller, 1.625:1 Ratio, 1986-2012 xl <i>Also available as a complete Rocker Arm Set, see chart</i>	17375-83A	900-4119FA
21	Bushing, Rocker Arm	17428-57	—
22	Rocker Cover, Outer	17501-86B	—
	Rocker Cover, Outer	17551-96	—
	Rocker Cover, Outer, Silver	17527-98	—
23	Rocker Cover, Inner	17532-86B	—
	Rocker Cover, Inner	17537-96	—
	Rocker Cover, Inner, Silver	17614-98	—
24	Spacer, Rocker Cover	17533-90A	—
	Spacer, Rocker Cover	17538-96	—
25	Shaft, Rocker Arm, 1986-2012 xl <i>each</i>	17611-83	90-4006
	Shaft, Rocker Arm, 1986-2012 xl <i>4 Pack</i>		90-4036
26	Retainer, Pushrod - Front Intake & Rear Exhaust	17952-91	—
	Retainer, Pushrod - Front Exhaust & Rear Intake	17953-91	—
27	Seal, Pushrod Cover	17944-89	—
28	Cover, Pushrod <i>See chart for a complete Pushrod Cover Kit</i>	17946-89	—
	Cover, Pushrod, Chrome, 2004-2012 xl models <i>See chart for a complete Pushrod Cover Kit</i>	17946-04	—
29	Pushrod, Intake 1991-2003 xl models <i>See chart for Adjustable Pushrod Set options</i>	17897-89	—
	Pushrod, Intake 2004-2012 xl models <i>See chart for Adjustable Pushrod Set options</i>	17909-02	—
	Pushrod, Exhaust 1991-2003 xl models <i>See chart for Adjustable Pushrod Set options</i>	17904-89	—
	Pushrod, Exhaust 2004-2012 xl models <i>See chart for Adjustable Pushrod Set options</i>	17908-02	—
	Pushrod, 2 Red Stripes, 1986-1990 <i>See chart for Adjustable Pushrod Set options</i>	17896-86	—
	Pushrod, 1 Red Stripes, 1986-1990 <i>See chart for Adjustable Pushrod Set options</i>	17897-86	—
	Pushrod, 3 Red Stripes, 1986-1990 <i>See chart for Adjustable Pushrod Set options</i>	17904-86	—
30	Tappet, Set, Hydraulic, 1986-'90 xl	18523-86A	33-5352
	Tappet, Hydraulic, 1991-1999 xl, Crane Cams®	18526-89	3-2100
	Tappet Set, Hydraulic, 2000-up xl	18538-99C	33-5350
31	Pin, Anti-Rotation	18532-89	—
32	Seal, Umbrella Valve Cover	26856-89	90-4030

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Parts for
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Parts for
Sportster®
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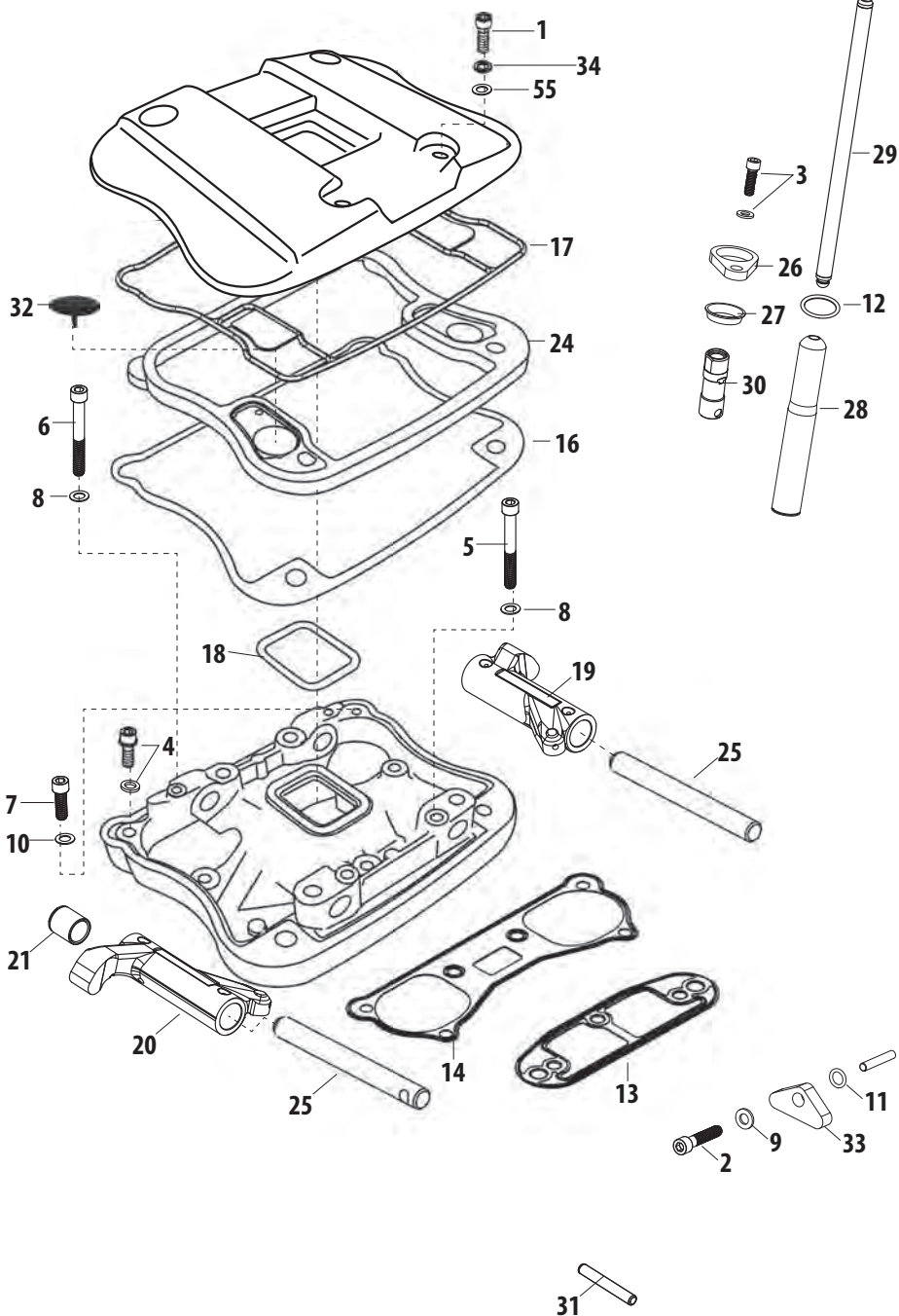
Parts for
Shovelheads

Parts for
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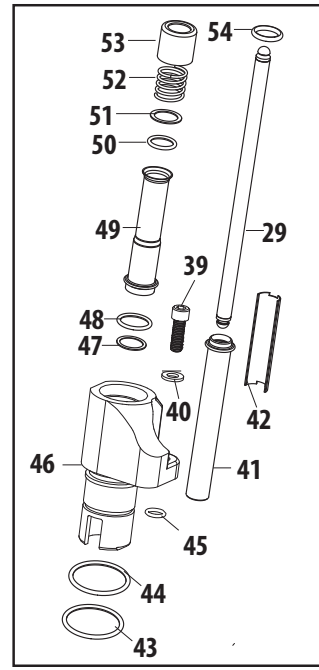
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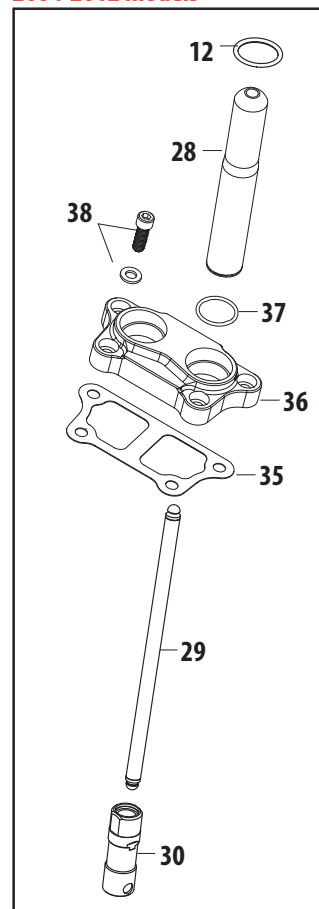
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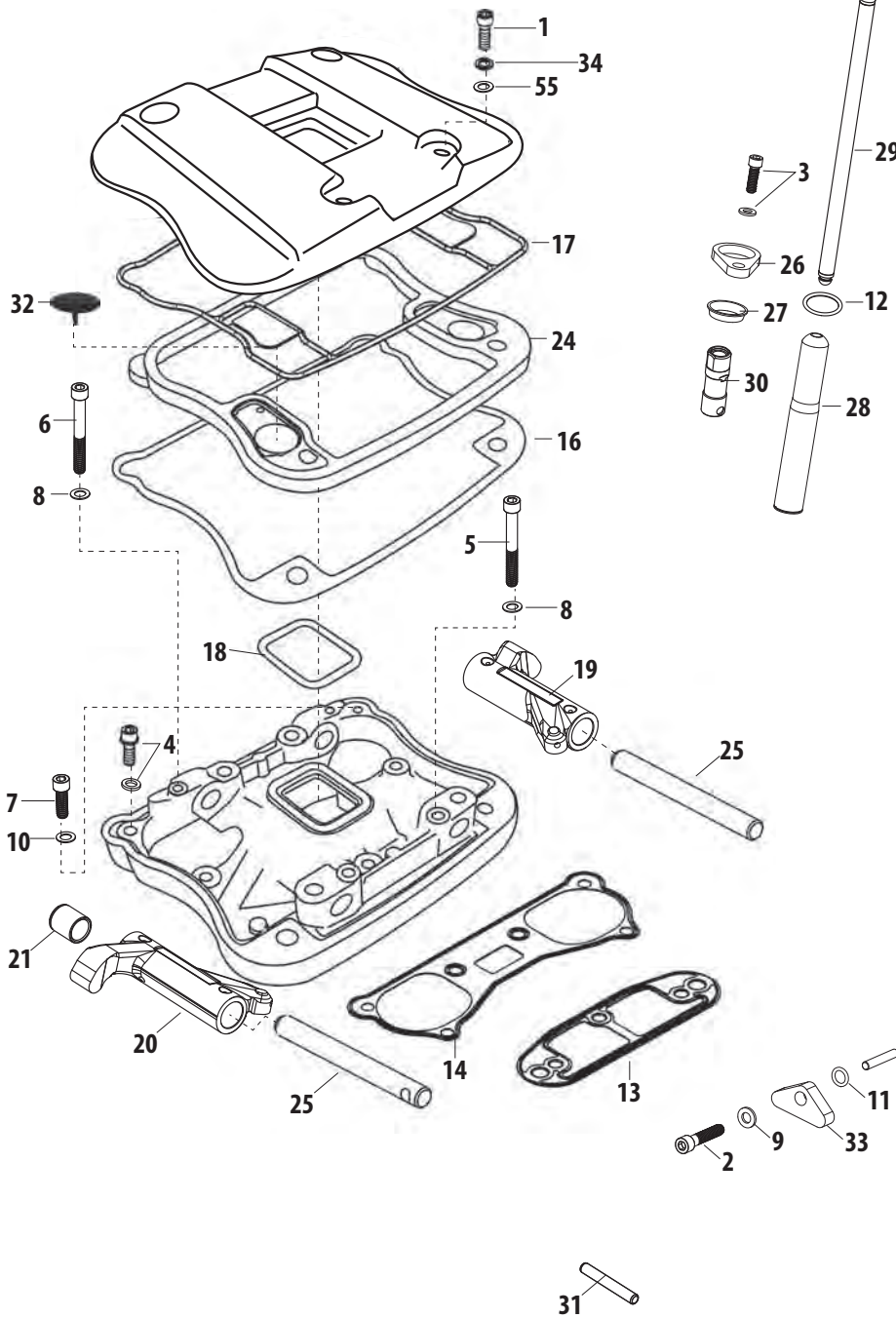
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CONTINUED: ROCKER ARMS, COVERS & PUSHRODS FOR HARLEY-DAVIDSON[®] SPORTSTER[®] MODELS

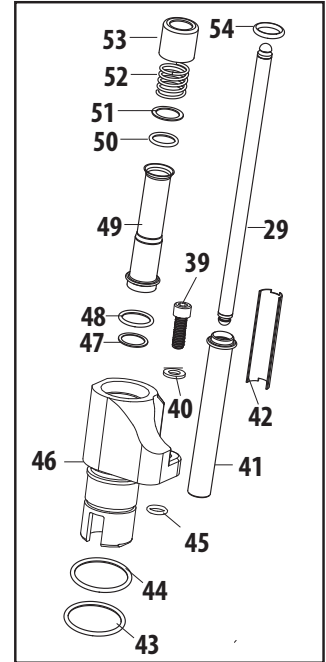
#	Description	H-D [®] Part No.	VVT Part No.
33	Pin Plate	36804-89	—
34	Washer, Flat, .250" x .625" x .031", Copper	63858-49	50-7018
35	Gasket, Tappet Cover 2004-2012 xl models	17976-04	—
36	Tappet Cover, Front 2004-2012 xl models	17972-04	—
	Tappet Cover, Rear 2004-2012 xl models	17981-04	—
37	O-Ring (4) For 2004-2012 xl models	11377	—
38	Screw, SHCS, 1/4-20 x 1", 2004-2012 xl models <i>each</i>	4741A	50-0084
	Screw, SHCS, 1/4-20 x 1", 2004-2012 xl models <i>10 Pack</i>		50-0244
39	Screw, SHC, 5/16-18 x 1", Zinc, 1986-1990 xl	2708	50-0101
40	Washer, Flat, .325" x .548" x .062", Zinc, 1986-1990 xl	6771	50-7025
41	Pushrod Cover, Top, Natural, Aluminum, 1986-1990 xl <i>Also available as a complete Pushrod Cover Kit, see chart</i>	17935-79B	93-4016
42	Cover Keeper, Set, Pushrod, 2.800", Chrome, 1986-1990 xl	17950-86	93-4115
43	O-ring, (-022), 1" ID x .125" OD, Black, Viton, 1986-1990 xl <i>each</i>	11168A	50-8005
	O-ring, (-022), 1" ID x .125" OD, Black, Viton, 1986-1990 xl <i>10 pack</i>		106-0682
44	O-ring, (-120), 1" ID x 1.875" OD, Viton [®] , 1986-1990 xl <i>each</i>	11167	50-8004
	O-ring, (-120), 1" ID x 1.875" OD, Viton [®] , 1986-1990 xl <i>10 Pack</i>		50-8079
45	O-ring, (-012), .375" ID x .500" OD, Viton [®] , 1986-1990 xl <i>each</i>	11110	50-8006
	O-ring, (-012), .375" ID x .500" OD, Viton [®] , 1986-1990 xl <i>10 Pack</i>		50-8077
46	Tappet Guide, Front Exhaust, 1986-1990 xl	18616-86	—
	Tappet Guide, Front Intake, 1986-1990 xl	18617-86	—
	Tappet Guide, Rear Exhaust, 1986-1990 xl	18618-86	—
	Tappet Guide, Rear Intake, 1986-1990 xl	18619-86	—
47	Washer, .903" x 1.053" x .034", Light Oil, Cold Rolled Steel, 1986-1990 xl <i>Also available as a complete Pushrod Cover Kit, see chart</i>	6737	50-7150
48	O-ring, (-118), .875" ID x 1.062" OD, Viton [®] , 1986-1990 xl <i>each</i> <i>Also available as a complete Pushrod Cover Kit, see chart</i>	11145A	50-8037
	O-ring, (-118), .875" ID x 1.062" OD, Viton [®] , 1986-1990 xl <i>10 Pack</i>		93-4112
49	Pushrod Cover, Bottom, Chrome Plated, Steel, 1986-1990 xl <i>Also available as a complete Pushrod Cover Kit, see chart</i>	17938-83	93-4015
50	O-ring, (-115), .687" ID x .875" OD, Black, Nitrile, 1986-1990 xl <i>each</i> <i>Also available as a complete Pushrod Cover Kit, see chart</i>	11132A	50-8038
	O-ring, (-115), .687" ID x .875" OD, Black, Nitrile, 1986-1990 xl <i>10 pack</i>		93-4111
51	Washer, Flat, .715" x .950" x .031", Steel, 1986-1990 xl <i>each</i> <i>Also available as a complete Pushrod Cover Kit, see chart</i>	6762B	50-7131
	Washer, Flat, .715" x .950" x .031", Steel, 1986-1990 xl <i>10 Pack</i>		50-7136
52	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1957-'90 xl <i>Also available as a complete Pushrod Cover Kit, see chart</i>	17947-36	93-4018
53	Cap, Pushrod Cover, 1957-'90 xl <i>Also available as a complete Pushrod Cover Kit, see chart</i>	17945-36B	93-4017
54	O-ring, (-209), .687" ID x .937" OD, Viton [®] , 1986-1990 xl <i>each</i>	11157	50-8039
	O-ring, (-209), .687" ID x .937" OD, Viton [®] , 1986-1990 xl <i>5 Pack</i>		50-8200
	O-ring, (-209), .687" ID x .937" OD, Viton [®] , 1986-1990 xl <i>10 Pack</i>		93-4110
55	Washer, Flat, .250" x .625" x .031", Copper, 1986-1990 xl	63858-49	50-7018

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

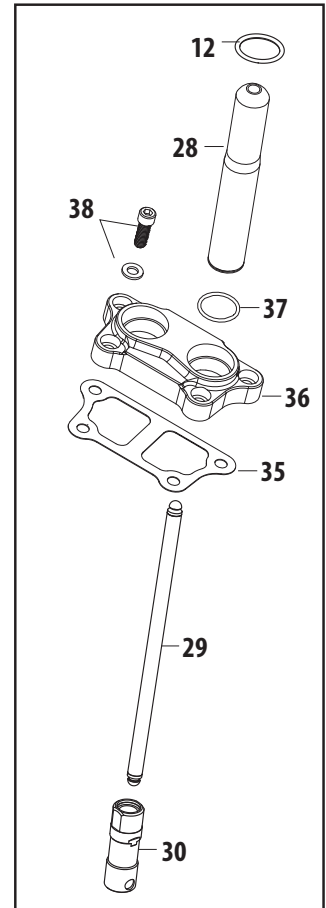
#	Description	VVT Part No.
1	Screw, SHC, 1/4-20 x 7/8", Chrome <i>each</i>	106-0534
	Screw, SHC, 1/4-20 x 7/8", Chrome <i>10 Pack</i>	106-0727
19, 20	Rocker Arm, Set, Non-Roller, 1.625:1 Ratio, 8620, 1986-2003 xl	900-4119A
23, 24, 25	Rocker Box, Kit, Chrome, Billet, 1986-2003 xl	90-4050
	Rocker Box, Kit, Natural, Billet, 1986-2003 xl	90-4055
28	Pushrod Cover, Kit, Chrome, 1986-'90 xl	93-4039
29	Pushrod, Set, Adjustable, Stock Rocker Arms, +.4375", Steel, 1986-'90 xl, 1991-up Stock xl	93-5022
	Pushrod, Set, Adjustable, Stock, Steel, 1986-'90 xl	93-5033
	Pushrod, Set, Quickee, Hydraulic Tappet, 88"-124", Steel, 1986-up xl	93-5122
41, 47, 48, 49, 50, 51, 52, 53	Pushrod Cover, Kit, Chrome, 1986-'90 xl	93-4039
46	Tappet Guide, Set, Stock Style, Natural, Billet, 1986-'90 xl	33-5375



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PISTONS, CONNECTING RODS AND FLYWHEELS FOR HARLEY-DAVIDSON® SPORTSTER® MODELS (AND IRONHEAD SPORTSTER)

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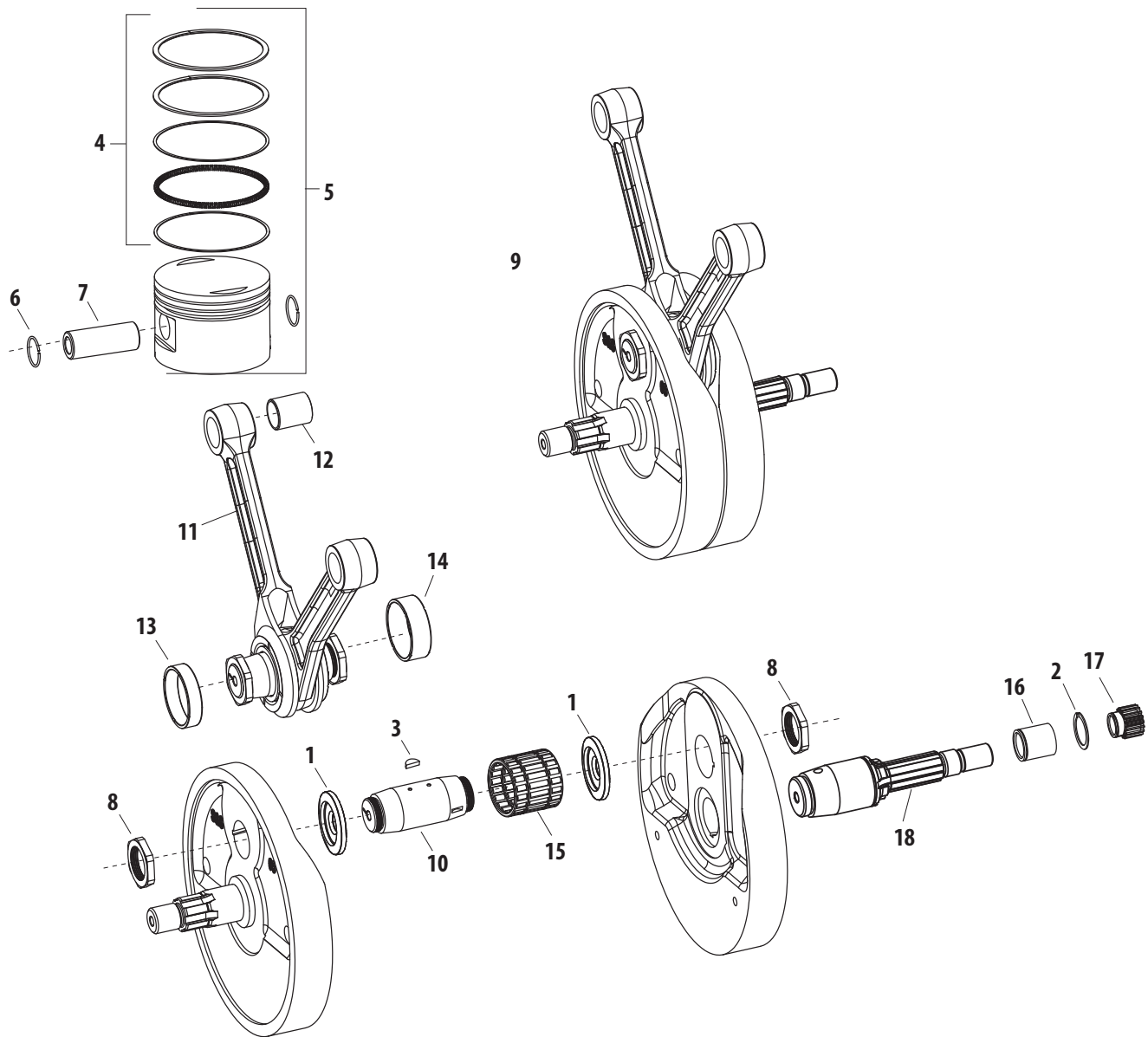
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#	Description	H-D® Part No.	W/T Part No.
1	Washer, Crankpin Boss	6508	—
2	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046" <i>each</i>	11177A	50-8057
	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046" <i>5 Pack</i>		50-1004
3	Key, Woodruff, .125" x .375" x .374" <i>each</i>	11218	50-8222-S
	Key, Woodruff, .125" x .375" x .374" <i>5 Pack</i>		50-1009
4	Ring, Set, Piston, 3-1/2", Standard, Moly Faced, .0625, .0625, .1525, 1984-'99 bt, 1986-2003 xl	21920-83	94-2216X
	Ring, Set, Piston, 3-1/2", +.005", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21921-83	—
	Ring, Set, Piston, 3-1/2", +.010", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21922-83	94-2217X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21923-83	94-2218X
	Ring, Set, Piston, 3-1/2", +.020", Moly Faced, .0625, .0625, .1525, 1986-2003 xl	21924-83	94-2219X
5	Ring, Set, Piston, 3", Standard, 883, 1986-2003 xl	22266-86	—
	Ring, Set, Piston, 3", .010", 883, 1986-2003 xl	22261-86	—
	Ring, Set, Piston, 3", .020", 883, 1986-2003 xl	22262-86	—
	Ring, Set, Piston, 3", .030", 883, 1986-2003 xl	22263-86	—
	Ring, Set, Piston, 3", .005", 883, 1986-2003 xl	22271-86	—
	Piston and Rings Assembly, Standard 883, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22242-86A	—
	Piston and Rings Assembly, +.005 O.S. 883, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22201-86A	—
	Piston and Rings Assembly, +.010 O.S. 883, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22253-86A	—
	Piston and Rings Assembly, +.020 O.S. 883, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22254-86A	—
	Piston and Rings Assembly, +.030 O.S. 883, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22255-86A	—
6	Piston and Rings Assembly, Standard 1200, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22243-88A	—
	Piston and Rings Assembly, +.005 O.S. 1200, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22205-88A	—
	Piston and Rings Assembly, +.010 O.S. 1200, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22216-88A	—
	Piston and Rings Assembly, +.020 O.S. 1200, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22220-88A	—
	Piston and Rings Assembly, +.030 O.S. 1200, 1986-Up xl <i>See chart for compatible Piston Set options</i>	22225-88	—
	Wristpin Keeper, C-Clip, .791"/.792" <i>each</i>	22589-83B	94-9254-S
	Wristpin Keeper, C-Clip, .791"/.792" <i>2 Pack</i>		94-9254-2
	Wristpin Keeper, C-Clip, .791"/.792" <i>4 Pack</i>		94-9254
7	Piston Pin, 883cc	22719-85	—
	Piston Pin, 1200cc	22765-88	—
8	Nut, Crankpin 1998-2003	23980-98	—
	Nut, Crankpin, 1986-1997	23901-81	—
9	Set of Flywheels and Shafts with Rods <i>See chart for compatible Flywheel options</i>	23905-89A	—
10	Crankpin, Assembly, Tapered, 1981-'99 xl	23960-80A	34-2602
	Crankpin, Assembly, 1.250", 1981-'99 xl	23948-87	34-2603
	Crankpin, Assembly, Tapered, 1.251", 1981-'99 xl	23949-87	34-2605
11	Connecting Rod, Set, Heavy Duty, ABC, .792" WP, 6.926", 1986-'99 xl	24275-86A	34-7800
	Connecting Rod, Set, Heavy Duty, ABC, .791" WP, Packaged, 7.440", 1957-E'81 xl	—	34-7500
	Connecting Rod, Set, Supreme, ABC, Stock Bore, .791" WP, Packaged, 7.440", 1957-E'81 xl	—	34-7710
	Connecting Rod, Set, Heavy Duty, ABC, .791" WP, Packaged, 7.440", L1981-'85 xl	—	34-7510
	Connecting Rod, Set, Supreme, ABC, Stock Bore, .791" WP, 7.440", L1981-'85 xl	—	34-7730
	Connecting Rod, Set, Heavy Duty, ABC, .791" WP, Packaged, 6.926", 1983-'84 xl	—	34-7803
12	Bushing, Wristpin, .767" x .895" x .950", Bronze, 1954-up xl	24331-36	34-4507
	Bushing, Wristpin, .010" oversize, 767" x .895" x .950", Bronze, 1954-up xl	24332-36	—
13	Race, rear, Connecting Rod, 1957-'99 xl	24341-52A	34-4506
14	Race, Front, Connecting Rod, 1957-'99 xl	24352-52A	34-4505
15	Bearing, Set, Rod, Standard, Alloy	24354-87A	34-4521
16	Inner Ring	24658-87	—
17	Gear, Pinion, Blue, 1986-'87 xl	24056-86	33-4152
	Gear, Pinion, Red, 1986-'87 xl	24057-86	33-4153
	Gear, Pinion, White, 1986-'87 xl	24058-86	33-4154
	Gear, Pinion, Green, 1986-'87 xl	24059-86	33-4155
	Gear, Pinion, Yellow, 1986-'87 xl	24060-86	33-4156
	Gear, Pinion, Blue, 1991-'99 xl	24056-91	33-4162
	Gear, Pinion, Red, 1991-'99 xl	24057-91	33-4163
	Gear, Pinion, White, 1991-'99 xl	24058-91	33-4164
	Gear, Pinion, Green, 1991-'99 xl	24059-91	33-4165
	Gear, Pinion, Yellow, 1991-'99 xl	24060-91	33-4166
18	Pinion Shaft, Assembly, Tapered, Packaged, Standard, L1981-'85 xl	24005-80	33-2323
	Pinion Shaft, Assembly, Tapered, Packaged, Standard, 1957-'76 xl	24005-57	33-2321
	Pinion Shaft, Assembly, Tapered, Packaged, Standard, 1977-E'81 xl	—	33-2322



NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
5	Piston, Set, 3-1/2", Standard, DD, .792" WP, 9.44:1 Compression, 1986-up xl	106-5548
	Piston, Set, 3-1/2", +.010", DD, .792" WP, 9.44:1 Compression, 1986-up xl	106-5549
	Piston, Set, 3-1/2", +.020", DD, .792" WP, 9.44:1 Compression, 1986-up xl	106-5550
9	Flywheel, Assembly, 3-13/16" Stroke, 7-7/8" Diameter, Balanced for 92-2016 Piston, 1986-'90 xl	320-0052
	Flywheel, Assembly, 3-13/16" Stroke, 7-7/8" Diameter, Balanced for 92-2016 Piston, 1991-2003 xl	320-0053
	Flywheel, Special Order, 1957-2003 xl	32-3014

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CRANKCASE FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Pin, Dowel, 5/16 x 1/2"	215	50-8019
2	Pin, Dowel, .250" x .500", Steel <i>each</i>		50-8022
	Pin, Dowel, .250" x .500", Steel <i>2 Pack</i>	358	50-8022-2
	Pin, Dowel, .250" x .500", Steel <i>5 Pack</i>		50-8105
3	Roll Pin	604	—
4	Plug, Timing, Threaded, 5/8-18 UNF-2A x .545", Zinc, Steel	720	31-2005
5	Screw, SHCS, 5/16-18 x 2-1/2", Zinc <i>each</i>		50-0118
	Screw, SHCS, 5/16-18 x 2-1/2", Zinc <i>10 Pack</i>	876A	50-0131
6	Screw, 5/16 thd x 3/4 pan head torx	3696	—
7	Screw, SHCS, 10-24 x 3/8", Chrome, Steel	4091	50-0023
8	Screw, 3/8-24 x 1-1/4 hex cap (grade 5) (Not Shown)	4337W	—
9	Screw, 3/8-24 x 5-1/2 hex cap (grade 5) (Not Shown)	4413	—
10	Bolt, 3/8-24 x 3-1/2 hex. hd. (Grade 5 steel)	4435W	—
11	Washer, 3/8 x 29/32 x 1/16 (Not Shown)	6019	—
12	Washer, 3/8 x 7/8 x 7/64 (Not Shown)	6026	—
13	Spacer, 13/32 x 1.0 x 5/16	6152	—
14	Washer, 21/64 x 9/16 x 1/8	6314W	—
15	Washer, 3/8 x 13/16 x 1/16	6701	—
16	Washer, Lock, .385" x .680" x .094", Zinc, Steel	7038	50-7052
17	Lockwasher, 3/8 external tooth	7145W	—
18	Locknut, 3/8-24 x 7/16 x 9/16 hex.	7775	—
19	Locknut, 3/8-24 x 13/32 x 11/16 hex. (Not Shown)	7780	—
20	Locknut, 3/8-24 x 7/32 x 9/16	7789	—
21	Nut, HH, 3/8-24 UNC-2B x .337", Zinc, Steel	7861	50-5037
22	Race, Right, Main Bearing, Standard	8881	31-4050
23	Retaining ring	9119A	—
24	Spacer, Left, Main Bearing, .100", 1974-2003 xl	9142	31-4063
	Spacer, Left, Main Bearing, .1015" - .1025", 1974-2003 xl	9143	31-4064
	Spacer, Left, Main Bearing, .1035" - .1045", 1974-2003 xl	9144	31-4065
	Spacer, Left, Main Bearing, .1055" - .1065", 1974-2003 xl	9145	31-4066
	Spacer, Left, Main Bearing, .1075" - .1085", 1974-2003 xl	9146	31-4067
	Spacer, Left, Main Bearing, .110", 1974-2003 xl	9147	31-4068
	Spacer, Left, Main Bearing, .112", 1974-2003 xl	9148	31-4069
	Spacer, Left, Main Bearing, .114", 1974-2003 xl	9149	31-4070
	Spacer, Left, Main Bearing, .098", 1974-2003 xl	9155	31-4062
25	Clamp	10080	—
26	O-ring, (-013), .437" ID x .565" OD, Viton® <i>each</i>		50-8008
	O-ring, (-013), .437" ID x .565" OD, Viton® <i>10 Pack</i>	11105	50-8078
27	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046" <i>each</i>		50-8057
	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046" <i>5 Pack</i>	11177A	50-1004
28	Mounting Plate, Lower Right - Front (Not Shown)	16210-84A	—
	Mounting Plate, Lower Right - Front (Not Shown)	16294-99	—
29	Mounting Plate, Lower Left - Front (Not Shown)	16212-84	—
	Mounting Plate, Lower Left - Front (Not Shown)	16297-99	—
30	Nut, Motor Mount, Press-In, HH, 3/8-24 2B x .785", Steel	16240-82	31-2048
31	Crankcase Set w/Bearings See chart for compatible Crankcase Assembly	24470-98	—
	Crankcase Set w/Bearings (Black) See chart for compatible Crankcase Assembly	24466-98	—
32	Bearing, Assembly, Right, Main, Blue	24647-87	31-4055
	Bearing, Assembly, Right, Main, Red	24650-87	31-4056
	Bearing, Assembly, Right, Main, White	24659-87	31-4057
	Bearing, Assembly, Right, Main, Green	24660-87	31-4058
33	Bearing, Assembly, Left, Main, 1974-up xl	24729-74	31-4059
34	Pin, Dowel, .430" x .499", Steel	24754-75A	50-8018
35	Cover, Stator Wire, 1991-2003 xl	29950-91, 29950-07	31-2050
36	Seal, Left, Main Bearing, 1.500" x 2" x .313", 1974-up xl	35151-74A	31-4060
37	Stud	42449-80	—
38	Plug, Pipe, 3/4 Taper, 1/8-27 NPTF x .188", Zinc, Steel <i>each</i>		50-8331
	Plug, Pipe, 3/4 Taper, 1/8-27 NPTF x .188", Zinc, Steel <i>10 Pack</i>	45830-48	50-1015
39	Bearing, Assembly, Left, Main, 1974-03 xl	48302-85	31-4059
40	Bearing Cup (2)	48315-60	—
41	Drain Plug Kit with O-Ring	60348-65B	—
42	Breather Tube for 1986-2003 xl	63547-89	—
43	Hose, .375" x .625" x 3', Rubber, Duro 73 (NOTE: S&S hose is 3' long)	63500-68	19-0169A
44	Bearing, Transmission Shift Drum, 1991-2003 xl, Right Hand	9151	56-3032
45	Retaining Ring, Internal, 2.731" x .031" x .158", Steel, 2004-up xl	35114-02	50-8160-S
46	Bearing	24604-00C	—
47	Washer, 1-1/4 x 1-53/64 x 9/64	8973	—
48	Seal, Left, Main Bearing, Packaged, 2004-up xl	12068	31-4035

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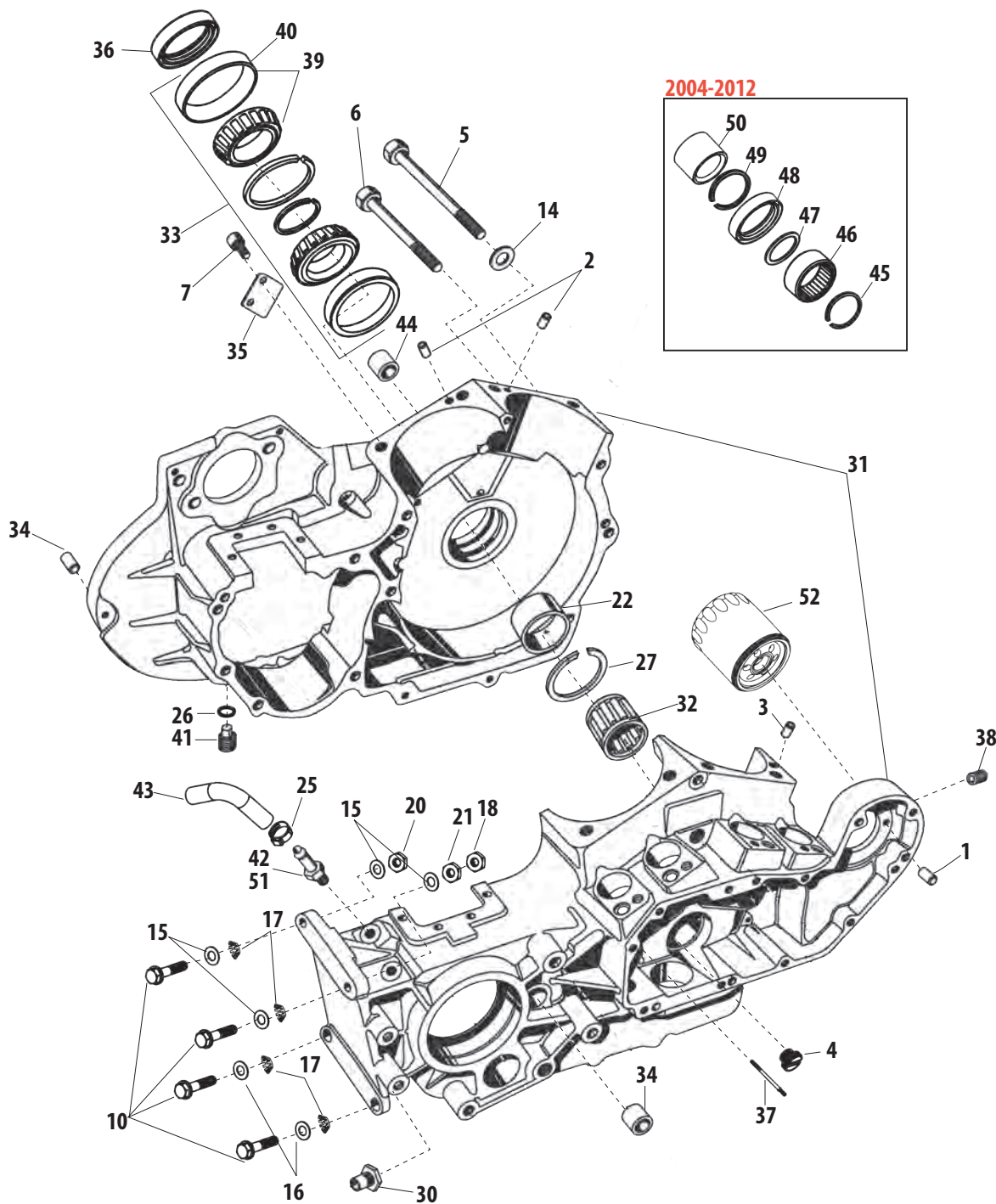
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#	Description	H-D® Part No.	VVT Part No.
49	Ring, Retaining	35118-03	—
50	Spacer, Sprocket Shaft	40254-02	—
51	Fitting, Hose, Straight, 1/8-27 NPTF x .500", Zinc, Steel for 2004 - 2012 xl	63533-41A	50-8115
52	Filter, Oil, 1986-up xl models Chrome <i>each</i>	63796-77A	31-4102
	Filter, Oil, 1986-up xl models Chrome <i>12 Pack</i>	63796-77A	310-0240
	Filter, Oil, 1986-up xl models Black <i>each</i>	63805-80A	31-4101
	Filter, Oil, 1986-up xl models Black <i>12 Pack</i>	63805-80A	310-0239

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
31	Crankcase, Assembly, Stock Bore, xl/Buell®, Natural, 1986-'90	31-1013
	Crankcase, Assembly, Stock Bore, xl/Buell®, Natural, 1991-2003 (Requires gasket 31-2052. 1991-'03 requires a 1991-'06 gearcover.)	31-1008

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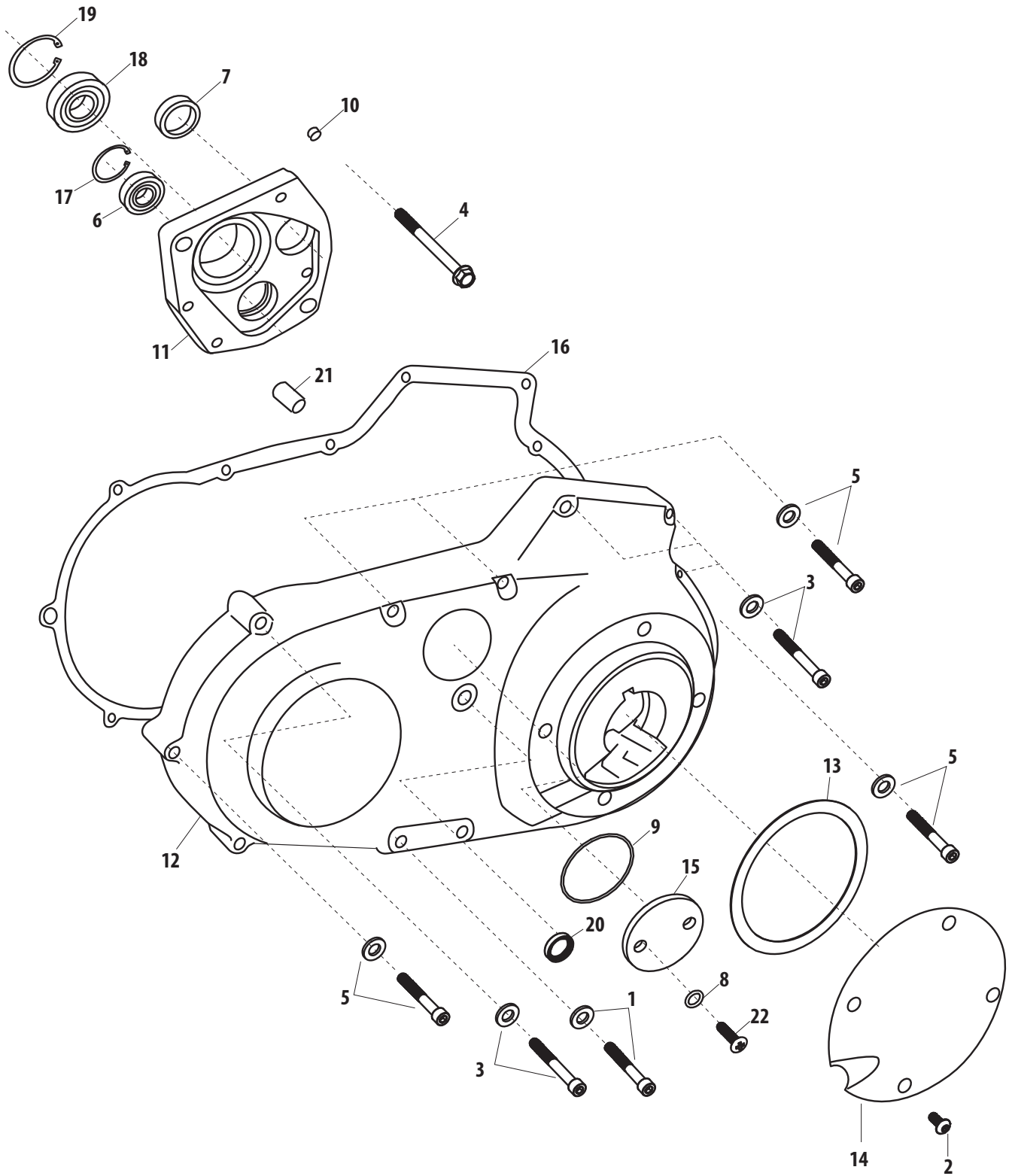
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ACCESS DOOR & PRIMARY COVER FOR HARLEY-DAVIDSON[®] SPORTSTER[®] MODELS

#	Description	H-D [®] Part No.	VVT Part No.
1	Screw	897	—
2	Screw, 1/4-20 x 5/8 socket button hd.	943	—
3	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	3480A, 4810	50-0010-S
4	Screw, 5/16-18 x 3-3/4 hex. flange hd.	3610	—
5	Screw, SHCS, 1/4-20 x 2-1/4", Zinc	4717A	50-0078
6	Bearing, Ball, Transmission Countershaft, Left Hand, 20mm x 47mm x 14mm, 1991-'03 xl	8998	56-3026
7	Bushing, Shifter Drum, 1.218" x 1.407" x .375", Bronze, 1991-2003 xl	9187	56-3030
8	O-Ring, Inspection Cover Screws	11171	—
9	O-Ring, Chain Inspection Cover	11188	—
10	Pin, Dowel, .557" x .500", Black, Steel <i>each</i>	16573-83A	50-8023
	Pin, Dowel, .557" x .500", Black, Steel <i>10 Pack</i>		50-8109
11	Access Door Assembly, Transmission w/#6, 7, 17, 18, & 19	25238-94	—
12	Primary Cover (Polished)	25430-94A	—
	Primary Cover (Chrome)	25460-94	—
	Primary Cover (Silver)	25471-97Y	—
13	Gasket, Clutch Cover	25463-94	—
14	Inspection Cover, Clutch	34742-94A	—
	Inspection Cover, Clutch (Chrome)	34760-94	—
15	Inspection Cover, Chain	34745-90A	—
	Inspection Cover, Chain (Chrome)	34761-94	—
16	Gasket, Primary Cover	34955-89A	—
17	Retaining Ring, Internal, 2.054" x .062", Carbon Steel	35021-89	50-8053
18	Bearing, Ball, 20mm x 47mm x 14mm, 1991-2012 xl	35030-89A	56-3027
19	Retaining Ring, Internal, 2.702" x .078", Carbon Steel	35038-89	50-8052
20	Oil Seal	37101-84	—
21	Bushing	40520-63	—
22	Screw, Inspection Covers	41191-74A	—



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GEARCASE AND COVER FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	3480A	50-0010-S
2	Screw, SHCS, 1/4-20 x 1-1/4", Zinc <i>each</i>	4740A	50-0008
	Screw, SHCS, 1/4-20 x 1-1/4", Zinc <i>10 Pack</i>		50-0153
3	Screw, SHCS, 1/4-20 x 2-1/4", Zinc, ASTM A574-92A	4717A	50-0078
4	Screw, 1/4-20 X 2 hex. socket	4820A	—
5	Nut	7916A	—
6	Clamp	10117	—
7	Seal, Gearcover Cam, 1.125" x 1.561" x .250", 1971-03 xl	11124	31-4051
8	T-key for 1991-2003 xl models	11219	—
	T-key for 2004-2012 xl models	11317	—
9	Cover Assembly, gearcase (polished) w/# 7, 17 & bushings	25219-91B	—
	Cover Assembly, gearcase (chrome) w/# 7, 17 & bushings	25213-96A	—
	Cover Assembly, gearcase (silver) w/# 7, 17 & bushings	25252-97YA	—
10	Gasket, Gearcover, 1986-1999 xl <i>each</i>	25263-86, 25263-90D	31-2052
	Gasket, Gearcover, 1986-1999 xl <i>5 Pack</i>		31-2099
11	Cover With Cam Gear Set, Matched	25488-89B	—
	Cover With Cam Gear Set, Matched (Chrome)	25483-96A	—
	Cover With Cam Gear Set, Matched (Silver)	25491-98	—
	Cover With Cam Gear Set, Matched (Silver)	25473-97YA	—
12	Bushing, Cam, #1/3/4, Bronze, 1957-up xl	25586-37	31-4037-S
13	Bushing, Rear Intake Cam Gear Shaft	25588-91	—
	Bushing, Cam, #2, Bronze, 1957-90 xl	25588-57	31-4036-S
14	Bushing, Pinion Shaft, Stepped, 1986-2003 x	25593-74	106-2928
15	Inner Bushing, Camshaft Gear	25598-91	—
	Bearing, Assembly, Needle, Cam, Late 1958-'90 xl	9057	31-4061
16	Gear, Pinion, Oil Pump Drive, Packaged, 1988-up xl	26318-88A	—
	Gear, Pinion, Oil Pump Drive, Packaged, 1977-'87 xl	26318-75	33-4228
17	Fitting, Oil Vent Hose	62375-57	—
18	Washer, Cam, Thrust, Double, .062", Steel <i>each</i>	25551-58	33-5210
	Washer, Cam, Thrust, Double, .062", Steel <i>2 Pack</i>		33-5210P
19	Gear, Pinion, Blue, 1986-'87 xl	24056-86	33-4152
	Gear, Pinion, Red, 1986-'87 xl	24057-86	33-4153
	Gear, Pinion, White, 1986-'87 xl	24058-86	33-4154
	Gear, Pinion, Green, 1986-'87 xl	24059-86	33-4155
	Gear, Pinion, Yellow, 1986-'87 xl	24060-86	33-4156
	Gear, Pinion, Blue, 1991-'99 xl	24056-91	33-4162
	Gear, Pinion, Red, 1991-'99 xl	24057-91	33-4163
	Gear, Pinion, White, 1991-'99 xl	24058-91	33-4164
Gear, Pinion, Green, 1991-'99 xl	24059-91	33-4165	
	Gear, Pinion, Yellow, 1991-'99 xl	24060-91	33-4166

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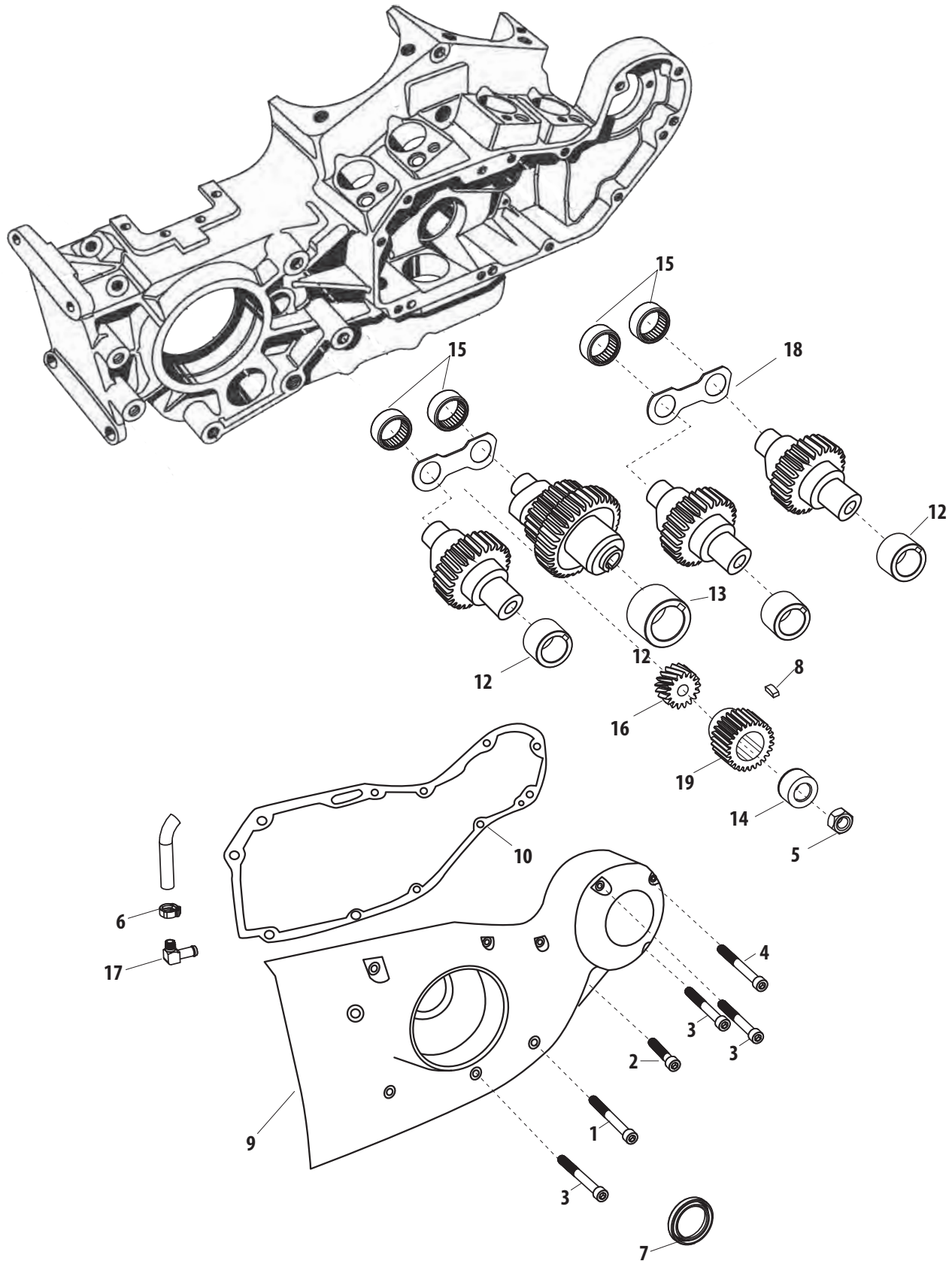
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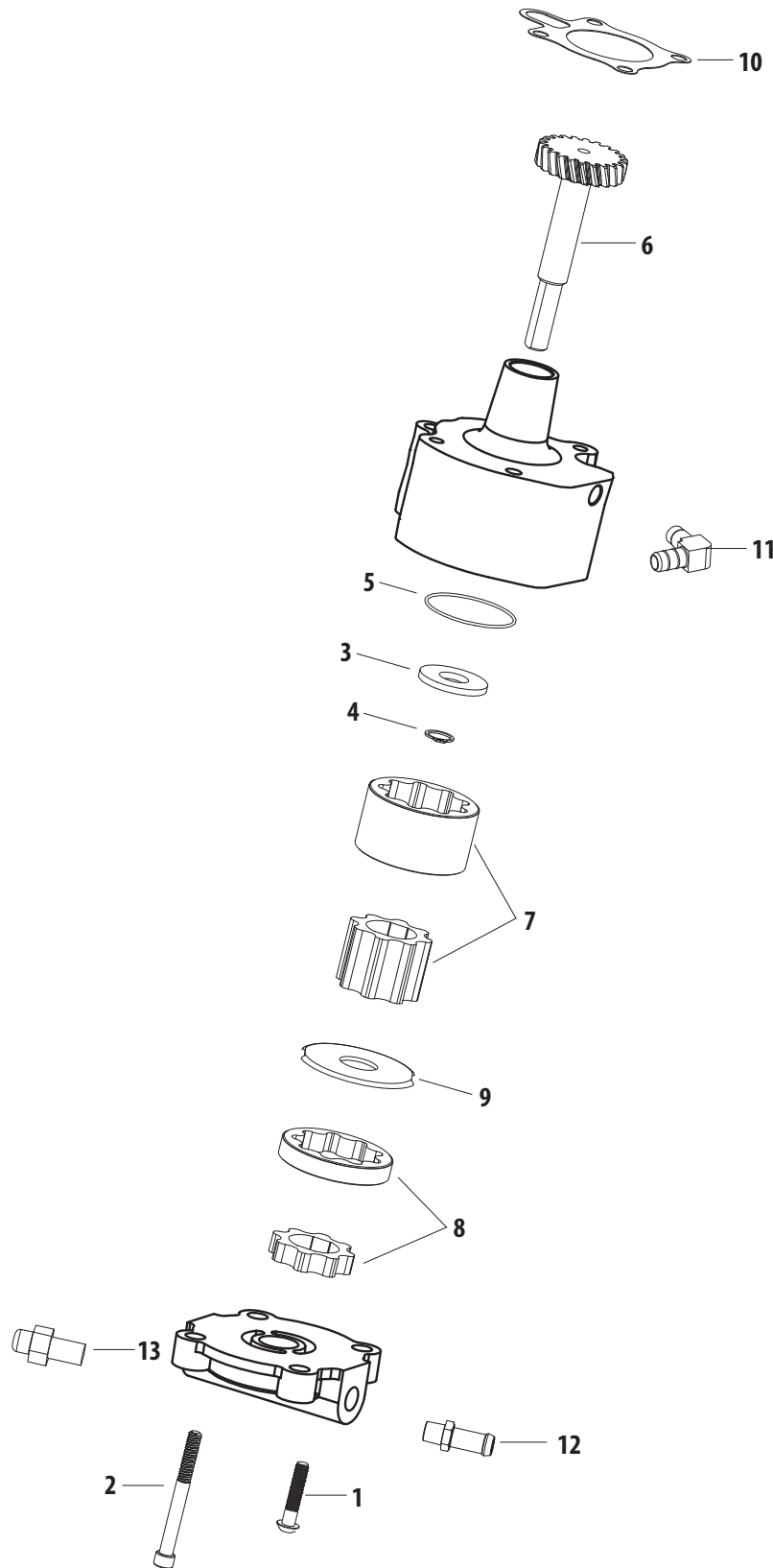
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OIL PUMP FOR HARLEY-DAVIDSON[®] SPORTSTER[®] MODELS

#	Description	H-D [®] Part No.	VVT Part No.
	Oil Pump, complete, 1991-up xl	26488-98, 26204-91A	106-5368
1	Screw, 1/4-20 x 1 1/8 hex socket button head (Grade 5, steel) (2)	4132	—
2	Screw, 1/4-20 x 2-5/8 cap screw hex socket hd. w/ flat (Grade 8) (2)	4765	—
3	Thrust Washer	6157	—
4	Retaining Ring, External, .366" x .025 <i>each</i>	11002	50-8059
	Retaining Ring, External, .366" x .025 <i>10 Pack</i>		50-8107
5	O-Ring	26434-91	—
6	Gear Shaft	26488-98	—
7	Gerotor Set, Return	26491-98, 26239-07	—
8	Gerotor Set, Feed	26492-91, 26502-07	—
9	Separator Plate	26493-91, 26503-07	—
10	Gasket, Pump Mounting	26495-89B	—
11	Fitting, 90 Degree	26496-75A	—
12	Fitting, Connector - Front	62601-91A	—
13	Fitting, Hose, Straight, 1/8-27 NPTF x .500", Zinc, Steel	63533-41A	50-8115



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CARBURETOR FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, .312-18 x 3/4 hex. socket head cap	3275	—
2	Seal, O-ring, MF, Stock Ports, 1.780" x 2.05, 1986-up xl <i>each</i>	26995-86B	16-0236
	Seal, O-ring, MF, Stock Ports, 1.780" x 2.05, 1986-up xl <i>10 Pack</i>		16-0244
3	Flange, Front, Manifold, 1986-2006 xl <i>each</i>	27009-86A	16-0232
	Flange, Front, Manifold, 1986-2006 xl <i>5 Pack</i>		16-0600
4	Flange, Rear, Manifold, 1986-2006 xl <i>each</i>	27010-86A	16-0233
	Flange, Rear, Manifold, 1986-2006 xl <i>5 Pack</i>		16-0601
5	U-ring, Manifold, 40mm Stock CV	27002-89	16-0242
6	Intake Manifold Kit w/#3 & 4	27004-88A	—
	Intake Manifold Kit w/ 32316-99, 38723-99, 68042-99	27024-04	—
7	Spring	27162-89	—
8	Screw, Top	27262-96	—
9	Top, Carburetor	27261-96	—
10	Collar	27263-96	—
11	Jet, Needle <i>See chart for Jet Kit</i>	27656-98	—
12	Vacuum Piston	27585-88	—
13	Insulator, 1/21.0. Nylon (8 Ft. lg.)	63505-84	—
14	Hose, 1/41.0. x 1/2 0.0. (Rubber)(25 Ft. Lg.)	63501-68A	—
15	Fitting	27371-76	—
16	Carburetor	27480-97	—
17	Needle Jet <i>See chart for Jet Kit</i>	27100-88	—
18	Needle Jet Holder <i>See chart for Jet Kit</i>	27101-88	—
19	Main Jet <i>See chart for Jet Kit</i>	27275-96Y	—
20	Valve, with Clip	27886-78A	—
21	Float	27576-92	—
22	Screw (4)	27579-88A	—
23	Float Chamber Assembly	27159-92	—
	Float Chamber Assembly	27380-98	—
24	O-Ring	27360-76	—
25	Pump Housing	27160-89	—
26	Spring, Diaphragm	27362-76	—
27	Diaphragm, Accelerator Pump	27361-76	—
28	O-Ring	27157-89	—
29	Drain Screw	27158-89	—
30	Clip, Overflow Hose	27368-76	—
31	Hose, Overflow, .125" x .250" x 24", Plastic, Duro 68A <i>each</i>	27369-76	19-0262-S
	Hose, Overflow, .125" x .250" x 24", Plastic, Duro 68A <i>5 Pack</i>		19-0263
32	O-Ring	27577-92	—
33	Cap, Accelerator Pump (Rubber)	27311-76	—
34	Rod	27156-89	—
35	Pin	27575-88A	—
36	Slow Jet	27171-89	—
37	Lever	27126-89	—
38	Bracket	27316-88	—
39	Screw, No. 8-32 x 3/8 Torx Hd.	68042-99	50-0054-S
40	Clamp, Hold-Down, Map Sensor	38723-99	16-5077-S
41	Map Sensor	32424-98	N/A
42	Seal, Map Sensor	11291	N/A
43	Map Sensor w/ 11291, 2004-up xl	32316-99, 32416-10, 32417-10	55-5057
44	Filter, Air, 2004-2009 xl	29331-04	106-4635
	Filter, Air, 1986-2003 xl	29036-88B, 29331-96	106-4633

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
11, 17, 18, 19	Jet, Kit, CV Carb, 1988-2003 xl * (Assorted popular jets, needles and emulsion tubes) For more info, see S&S instruction sheet #51-1177	11-5200
	Jet, Kit, CV Carb, 2004-2006 xl * (Assorted popular jets, needles and emulsion tubes) For more info, see S&S instruction sheet #51-1177	11-5201

* Not legal for sale or use on CA or EPA pollution controlled vehicles.

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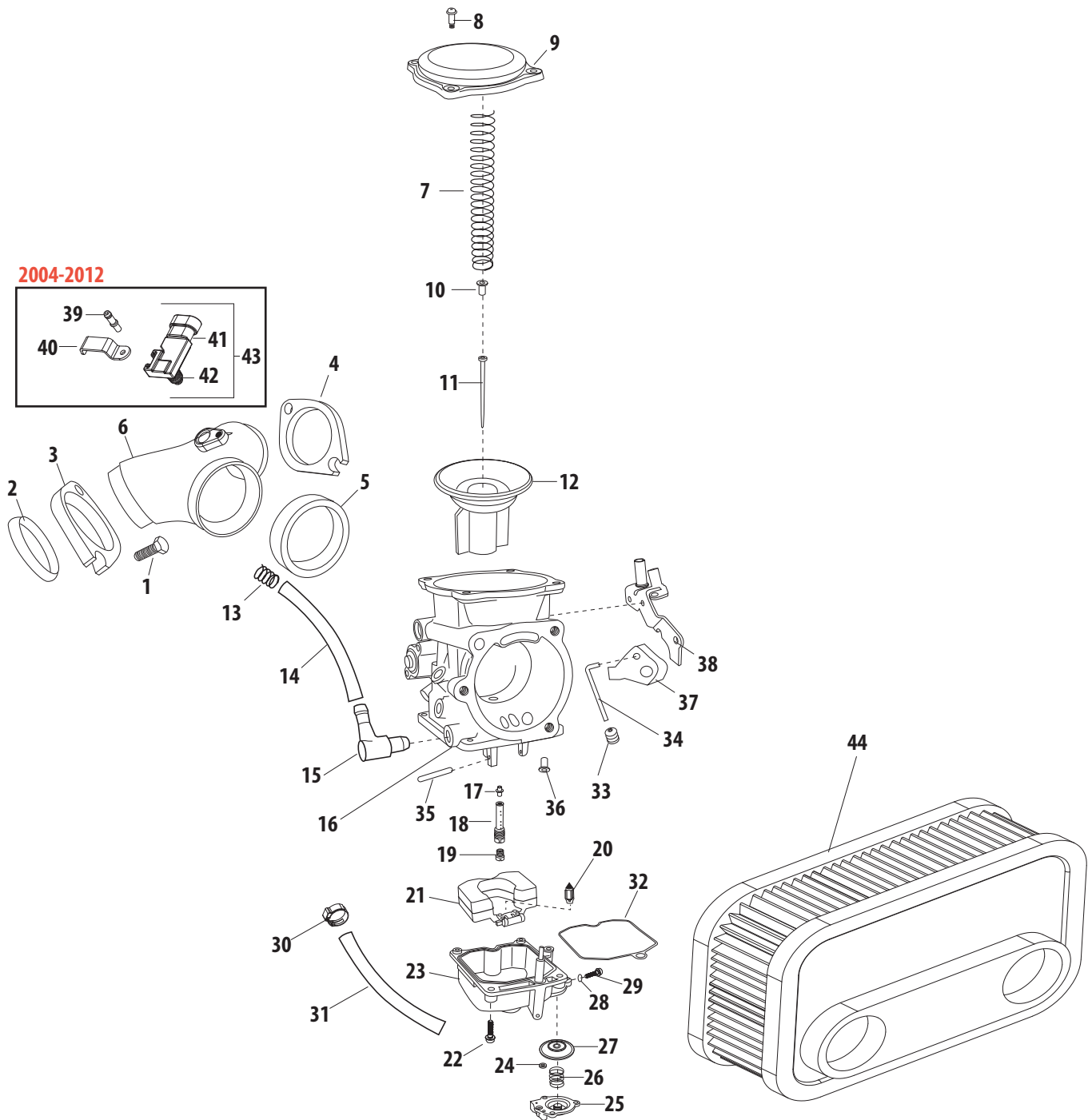
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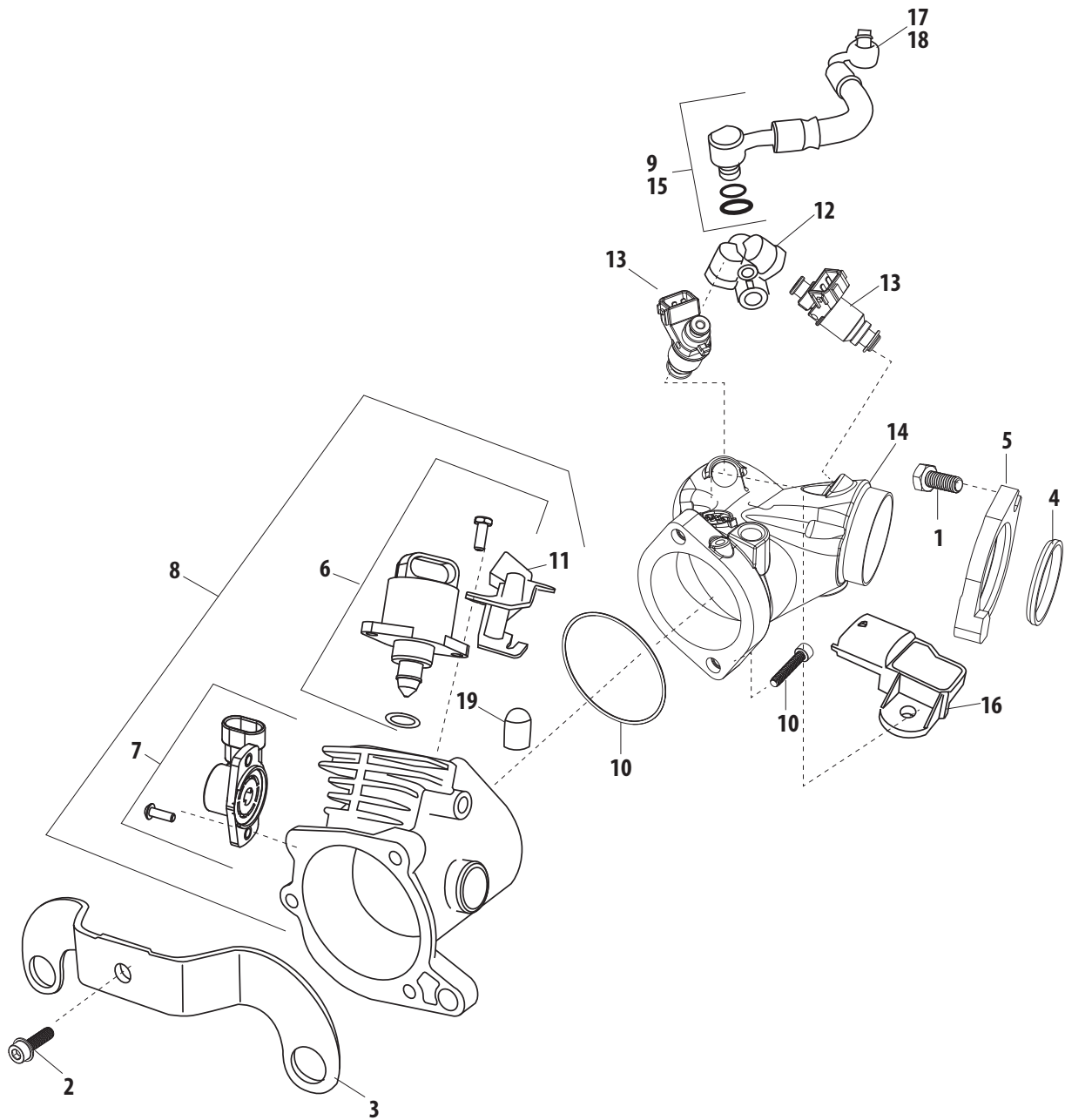
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INDUCTION MODULE FOR HARLEY-DAVIDSON[®] SPORTSTER[®] MODELS

#	Description	H-D [®] Part No.	VWT Part No.
1	Bolt, 5/16-18 x 3/4 hex hd. (Grade 5) <i>each</i>	3987	50-0108
	Bolt, 5/16-18 x 3/4 hex hd. (Grade 5) <i>10 Pack</i>		50-0155
2	Screw, 1/4-20 x 5/8	4798	—
3	Bracket, Throttle Body	16361-07	—
4	Seal, Intake, Stock Heads, 1986-up xl	26995-86B	16-0236
5	Flange, Intake (2)	27327-07	—
6	Motor, Kit, Idle Air Control, EFI	27628-01A	55-5085
7	Kit, Throttle Position Sensor	27629-01	—
8	Module Assembly, Induction w/ 27701-07, Sensor Throttle Position, Idle Air Control, & Throttle Body	27795-07	—
9	Fuel Line Kit, w/ 62351-07	27693-07	—
10	Kit, Hardware	27700-07	—
11	Cable Bracket	27701-07	—
12	Fuel Rail	27704-07	—
13	Fuel Injector, w/ O-Ring	27706-07	—
14	Intake Manifold	27707-07	—
15	Fuel Line Kit, w/ 62350-07	27774-07	—
16	T-Map Sensor	32319-07	—
17	Fuel Line	62350-07	—
18	Fuel Line	62351-07	—
19	Cap	90383-98	—



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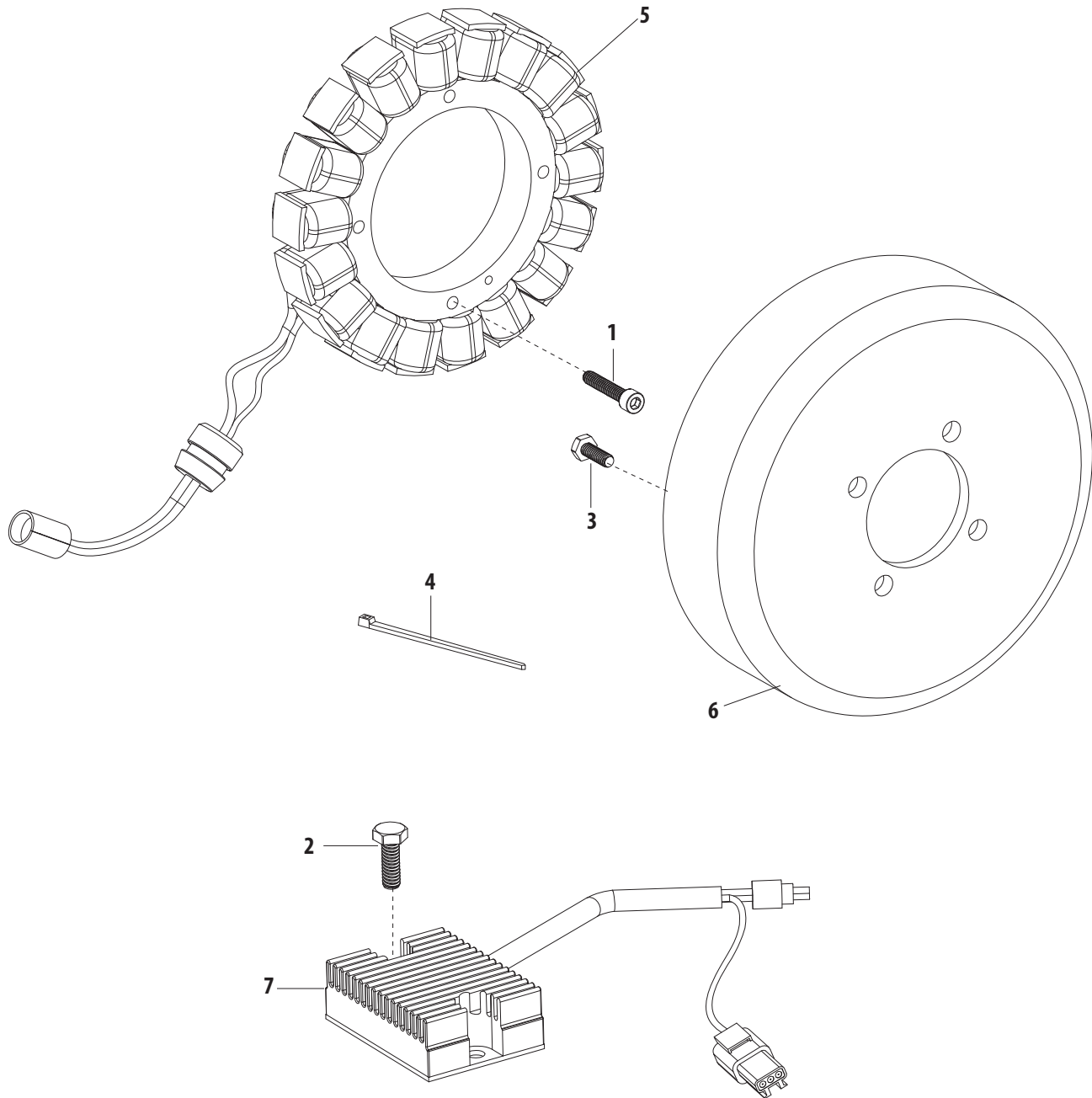
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ALTERNATOR AND REGULATOR FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	WT Part No.
1	Screw, SHCS, 10-24 x 1", Alloy Steel <i>each</i>	2720	50-0044
	Screw, SHCS, 10-24 x 1", Alloy Steel <i>10 Pack</i>		50-0194
2	Screw, 1/4-20 x 3/4 hex. washer hd.	4329	—
3	Screw, 1/4-20 x 3/4 hex. hd. (w/lockpatch)	4751	—
4	Wire, Tie, 8", Black, Nylon	10065	50-8346-S
5	Stator	29967-89A	—
6	Rotor w/#3	32403-89A	—
7	Regulator	74523-94A	—



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IGNITION AND COIL FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, No. 8-32 x 1/2 Pozidriv flat ctsk. hd. (Grade 2 steel)	1601	—
2	Bolt, No. 10-32 x 3/4 hex. washer hd. (Grade 5 steel)	2611B	—
3	Bolt, 5/16-18 x 3/4 hex. hd.(Grade 5 steel)	3987	—
4	Bolt, 1/4-20 x 1-1/4 hex. hd.(Grade 5 steel)	3993	—
5	Washer, 5/16 x 11/16 x 1/16	6702	—
6	Lockwasher, 1/4	7036	—
7	Locknut, 5/16-18 x 9/32 x 1/2 Hex.	7531	—
8	Pop Rivet (2)	8699	—
9	Cable Strap	10039	—
10	Wire, Tie, 8", Black, Nylon	10065	50-8346-S
11	Clip	10108	—
12	Seal, Gearcover Cam, 1.125" x 1.561" x .250", 1971-up xl	11124	31-4051
13	Vacuum Switch, With Electrical Connector Assembly	26558-94	—
14	Ignition Coil , Dual Fire, Crane Cams®	31614-83A	8-3002
	Coil, Ignition, Single Fire, Crane Cams®	31655-99	8-3010
15	Bracket, Ignition Coil Mounting	31723-95	—
16	Plate, Ignition Coil Mounting	31727-85	—
17	Cable, Spark Plug 1986 xl	31986-86	—
	Cable, Spark Plug For 2004-2006 (2)	31996-04	—
18	Cable, Spark Plug - 20" (Front)	31996-86A	—
19	Spark Plug, Resistor, 12mm <i>each</i>	32317-86A, 32362-04	55-1320
	Spark Plug, Resistor, 12mm <i>2 Pack</i>		55-1322
20	Ignition Trigger Rotor, Crane Cams®	32402-83	8-1150
21	Ignition Module, Integrated Sensor	32465-98	—
22	Inner Cover	32504-80	—
23	Cover, Timer	32506-90	—
24	Screw, Timing Mechanism, Steel <i>each</i>	32606-82	31-0224
	Screw, Timing Mechanism, Steel <i>2 Pack</i>		31-0224P
25	Connector 6-Way (Black)	72106-94BK	—
26	Connector 2-Way (Black)	72112-94BK	—
27	Secondary Lock, 6-Pin	72146-94	—
28	Secondary Lock, 2-Pin	72152-94	—
29	Terminal, Pin (5)	72190-94	—
30	Terminal, Socket (2)	72191-94	—
31	Pin Seal	72195-94	—
32	Attachment Clip	72199-94	—
33	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	3480A	50-0010-S

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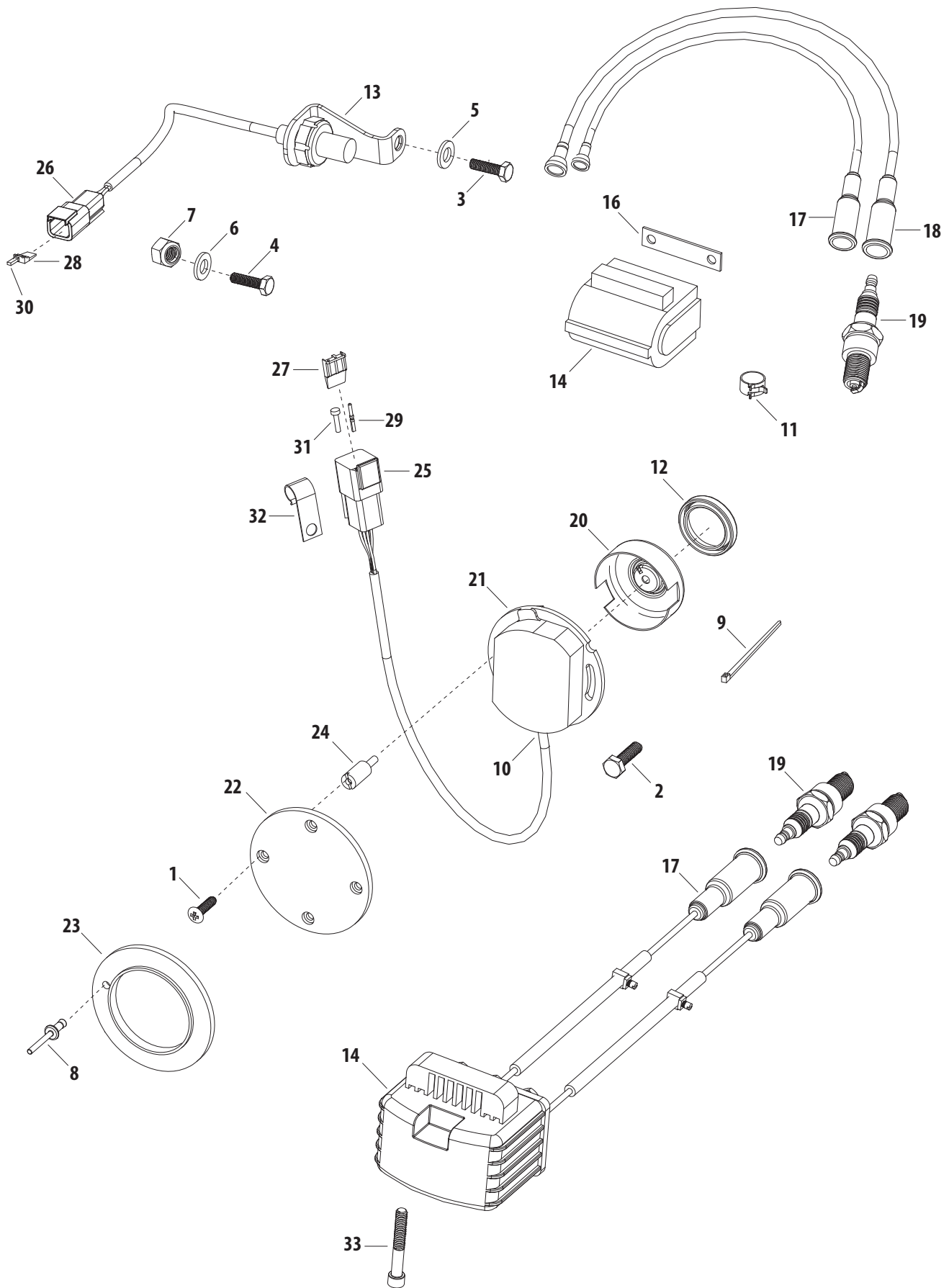
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TRANSMISSION GEARS FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, SHCS, 1/4-20 x 1-3/4", Zinc	3480A, 4810	50-0010-S
2	Screw, 1/4-20 x 5/8 Knurled Socket Hd.	3594	—
3	Screw, 5/16-18 x 1 Torx Hd Lock (Grade 8 Steel)	3675	—
4	Screw, 1/4-20 x 2 Hex. Socket	4820A	—
5	Screw, 1/4-20 x 2-1/2 Hex. Socket Hd. (w/Washer)	4826	—
6	Thrust Washer (6)	6003	—
7	Bearing (4)	8876A	—
8	Bearing, Needle, Transmission Countershaft, 1991-2003 xl	8977	56-3031
9	Bearing, Ball, Transmission Mainshaft, 10 Balls, 45mm x 85mm x 19mm	8996A	56-1280
10	Retaining Ring (7)	11067	—
11	Retaining Ring, Internal, 3.734" x .109", Carbon Steel, SAE 1060-1090	11161	50-8051
12	O-ring, Quad Seal, (-031), 1.734" x 1.875", Black, Nitrile	11165	50-8045
13	Oil Seal	12030	—
14	Seal, Transmission Output Shaft, 2.255" x 3.388" x .250, 1995-'03 xl	12067B	56-3033
15	Spacer	33344-94	—
16	Sprocket Cover	34911-91A	—
	Sprocket Cover	34932-96	—
	Sprocket Cover	34938-98	—
17	Retainer, Countershaft	35020-89	—
18	Spacer 1986-2003 xl	35022-89A	—
	Spacer 2004-2005 xl	35133-04	—
19	Gear Assembly W/#13 & 20, Fifth-Mainshaft	35034-94	—
20	Bearing, Needle (2)	35051-89	—
21	Spacer	35063-89	—
22	Nut, Sprocket	35211-91A	—
23	Gear, Fifth-Countershaft	35633-94	—
24	Mainshaft	35640-89	—
25	Countershaft	35641-89	—
26	Gear, First-Mainshaft	35762-89A	—
27	Gear, First-Countershaft	35763-89A	—
28	Gear, Second-Mainshaft, Third-Countershaft (2)	35771-94	—
29	Gear, Third-Mainshaft, Second-Countershaft (2)	35772-94	—
30	Gear, Fourth-Mainshaft	35773-94	—
31	Gear, Fourth-Countershaft	35775-94	—
32	Sprocket Kit -29T. (Belt) w/# 2, 14, 15, 16, 22, & 33	40202-91B	—
	Sprocket -29T. (Belt)	40205-95	—
	Sprocket Kit -27T. (Belt) w/# 2, 14, 15, 16, 22, & 33	40285-91B	—
	Sprocket -27T. (Belt)	40288-95	—
33	Retention Plate	40251-92A	—
34	Bearing 2004-2005 xl	8968	—
35	Retaining Ring, Internal, 2.054" x .062", Carbon Steel, SAE 1060-1090	35021-89	50-8053
36	Bearing, Ball, 20mm x 47mm x 14mm, 1991-2003 xl	35030-89A	56-3027
37	Retaining Ring For 2004-2005 xl	35038-89A	—

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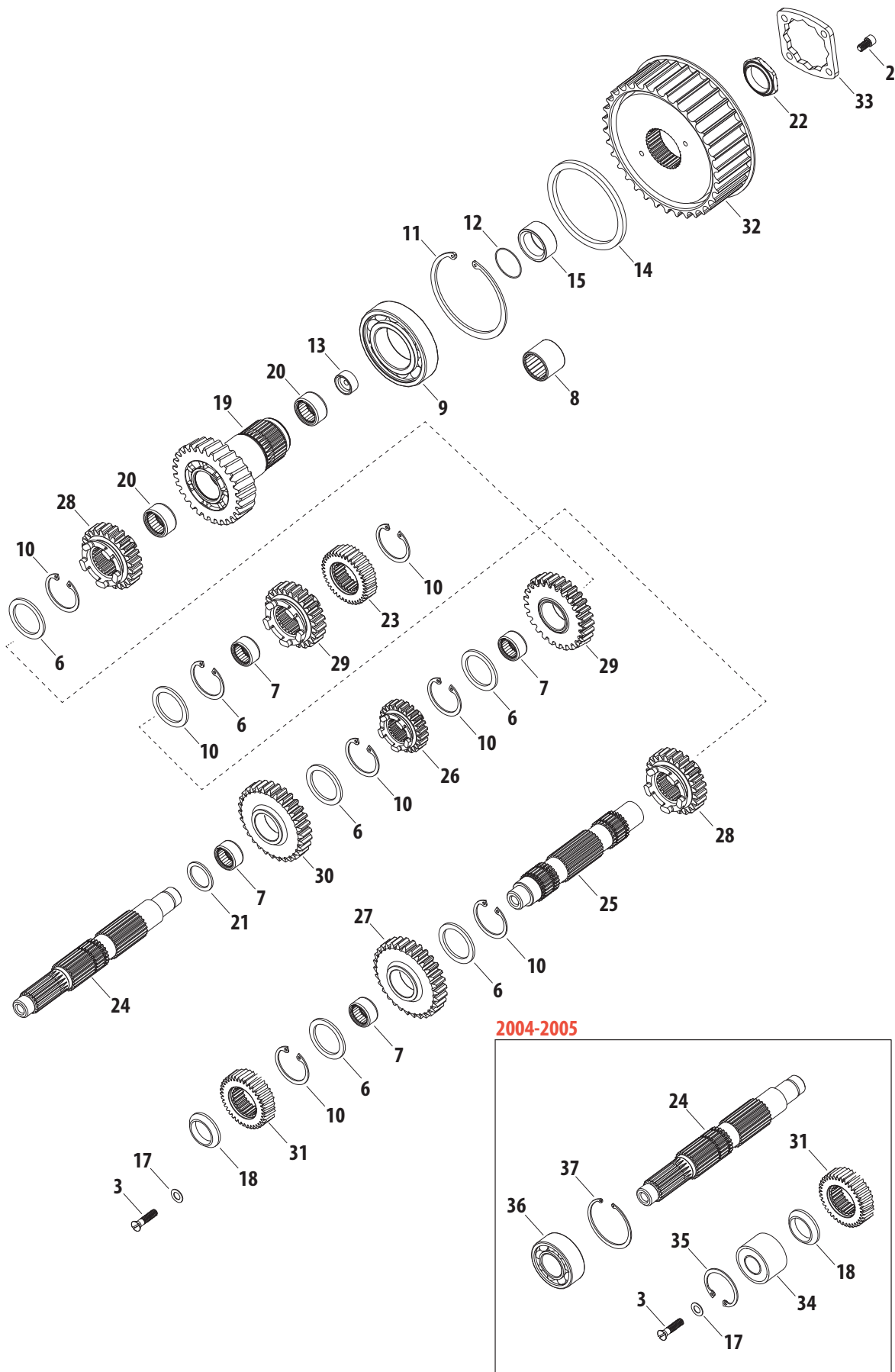
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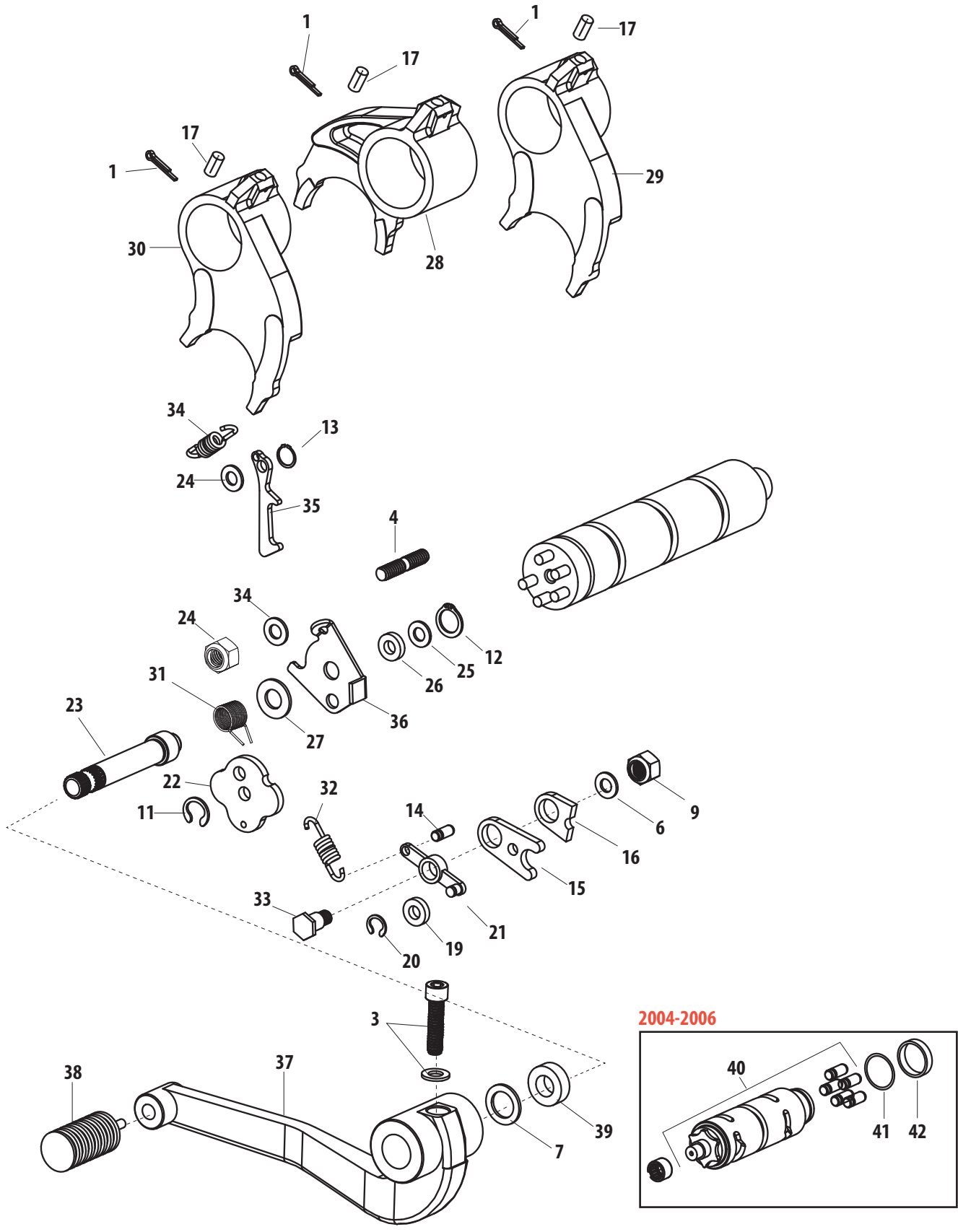
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#		H-D [®] Part No.	VVT Part No.
1	Cotter Pin (3)	518	—
2	Roll Pin	601	—
3	Screw, 1/4-20 x 1 Hex. Socket Hd.(W/Lockpatch) <i>each</i>	4741A	50-0084
	Screw, 1/4-20 x 1 Hex. Socket Hd.(W/Lockpatch) <i>10 Pack</i>		50-0244
4	Stud,Shifter Shaft,1/4-20, 1/4-28 x 1.250" (2)	5226B	50-8080
5	Washer,Flat,.344" x .688" x .065",Zinc,Steel	6016	50-7034
6	Washer, 1/4 x 7/16 x 1/16	6099	—
7	Washer, 1/2 x 3/4 x 1/4 (Rubber)	7019	—
8	Locknut, 1/4-28 x 5/16 x 7/16 Hex.	7683	—
9	Locknut, 5/16-18 x 11/32 x 1/2 Hex.	7739	—
10	Bearing,Transmission Shift Drum,1991-2003 xl, Right Hand	9151	56-3032
11	Retaining Ring	11019	—
12	Retaining Ring	11031	—
13	Retaining Ring	11185	—
14	Pin, Spring	24530-90	—
15	Plate, Shift Drum	33178-98	—
16	Plate, Shift Drum	33204-98	—
17	Roller (3)	33319-90	—
18	Shifter Drum Assembly, w/#2	33634-91	—
19	Roller, Detent	33652-90	—
20	Retaining Ring	33653-90	—
21	Detent Arm	33655-90	—
22	Plate, Detent	33656-90	—
23	Shifter Shaft	34015-91	—
24	Spacer, Pawl	34073-91	—
25	Washer	34075-89	—
26	Bushing	34076-89	—
27	Washer	34077-91	—
28	Shifter Fork, First & Second	34142-89C	—
29	Shifter Fork, Third & Fifth	34144-89C	—
30	Shifter Fork, Fourth	34147-89C	—
31	Spring	34481-91A	—
32	Spring	34483-90	—
33	Screw, Detent Arm	34486-90	—
34	Spring	34491-91	—
35	Shifter Pawl	34492-91	—
36	Baseplate	34560-91	—
37	Shift Lever, Foot (Chrome)	34615-94	—
38	Shifter Peg	34611-65	—
39	Oil Seal	37101-84	—
40	Shifter Cam Assembly	33634-02A	—
	Switch, Neutral (Not Illustrated)	33900-99	—
41	Ring, Retaining	11360	—
42	Bushing, Shifter Drum, 1.218" x 1.407" x .375", Bronze, 1991-2003 xl	9187	56-3030



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BELTS, CHAINS & SPROCKETS FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Screw, Adjuster	3242A	—
2	Screw, 1/4-20 x 5/8 Knurled Socket Hd.	3594	—
3	Bolt, 7/16-14 x 1-3/4 Hex. Hd.	3730A	—
4	Spacer	5784	—
5	Washer, 7/16 x 1-1/8 x 1/8	6516HW	—
6	Nut, Engine Sprocket	7839	—
7	Locknut	7667	—
8	Nut, Sealing	7804	—
9	Locknut, Laced Wheel (5)	7827W	—
10	Nut, Transmission Sprocket	35211-91A	—
11	Shoe Assembly	39970-91	—
12	Primary Chain 1986-2012 xl	40005-57B	—
13	Belt 128T <i>See chart for belt options</i>	40022-91	—
14	Sprocket Kit, Transmission -29T (Belt) w/#2, 10, 18, Seal And Spacer 99 To * -1200/C/S	40202-91B	—
	Sprocket Kit, Transmission -27T (Belt) w/#2, 10, 18, Seal And Spacer 99 To * -Sto/Hug/883C	40285-91B	—
	Sprocket, Transmission -29T 99 To * -1200/C/S	40205-95	—
	Sprocket, Transmission -27T	40288-95	—
15	Sprocket, Rear Wheel -61 T (Belt) (Black)	40213-91	—
	Sprocket, Rear Wheel -61T (Belt)(Silver)	40227-93	—
16	Engine Sprocket -35T	40235-89	—
	Sprocket, Triple Row - 34T (883cc) 2004- 2012	40241-02	—
17	Spacer, Sprocket	40240-89	—
18	Lock Plate	40251-92A	—
19	Chain Adjuster Assembly 2004-2012	40039-02B	—
20	Nut, 1/2-13 x 15/32 x 7/8 (Sealing) 2004-2012	7804	—
21	Spacer, Sprocket 2004-2012	40240-89	—
22	Flange Nut, 3/4-16 x 21/32 (Grade 2) 2004-2012	7839	106-4524

GATES® CARBON FIBER X3N SECONDARY DRIVE BELTS (14MM PITCH)		
Teeth	1 1/8" Wide	1 1/2" Wide
125	106-0357	—
126	—	106-0348
127	—	106-0349
128	106-0358	106-0350
130	106-0359	106-0351
132	106-0360	106-0352
133	106-0361	106-0353
135	106-0362	106-0354
136	—	106-0355
139	106-0363	106-0356
149	106-1338	—
156	—	106-2827

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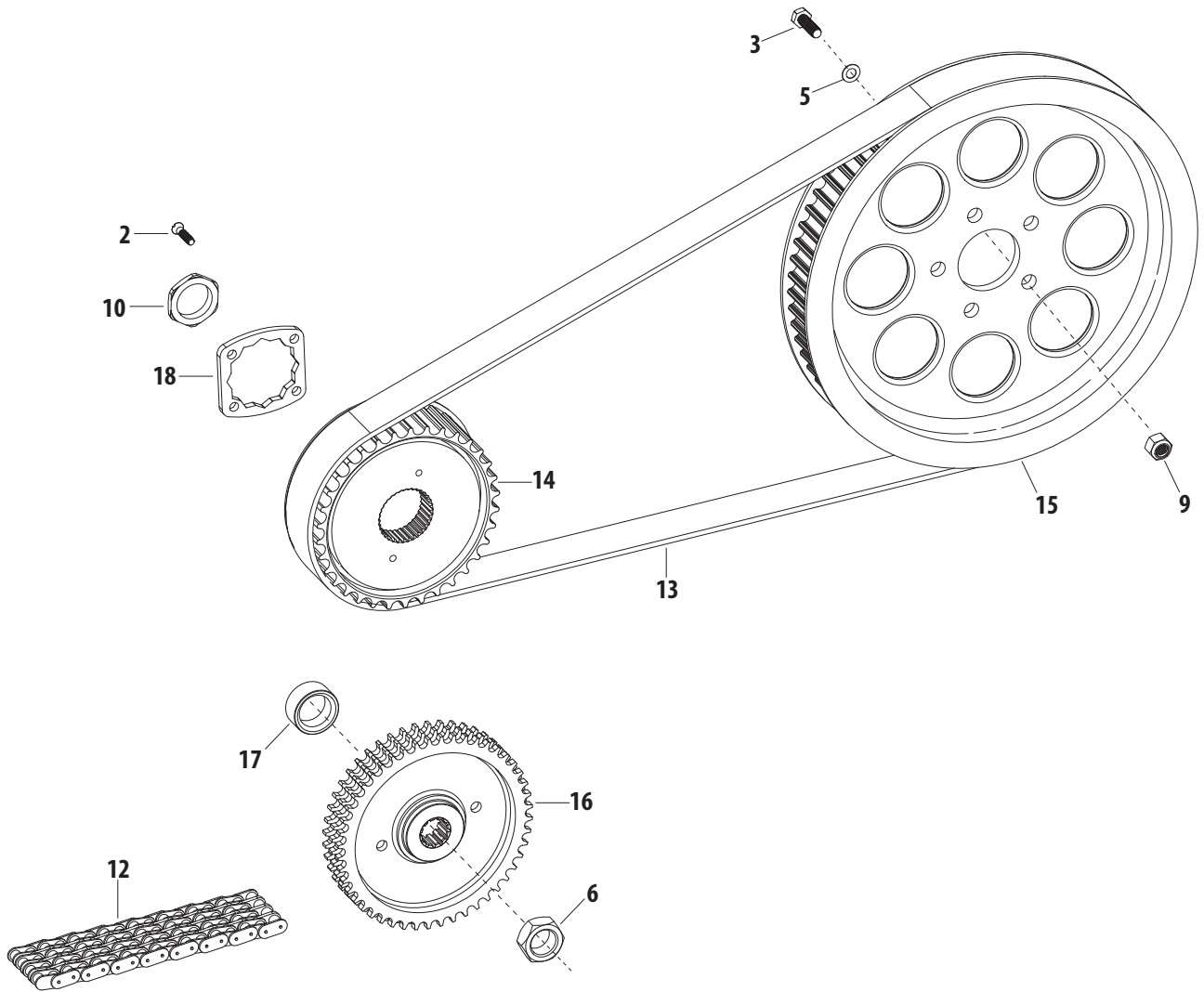
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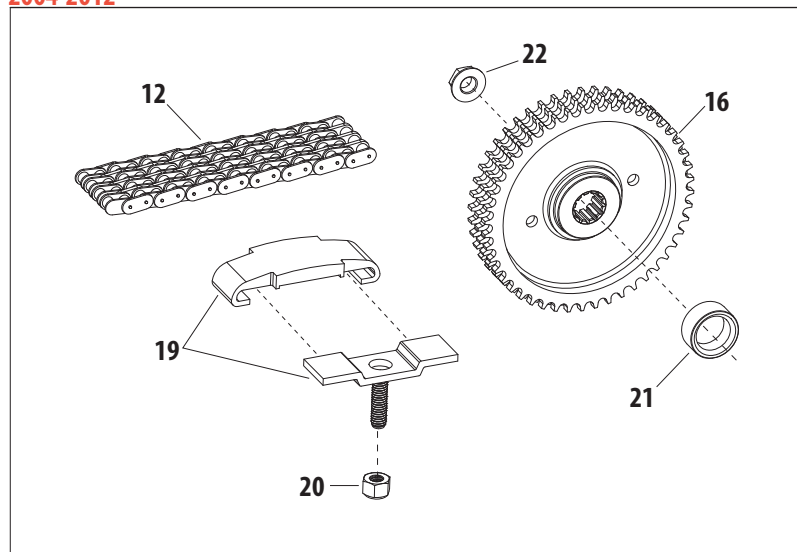
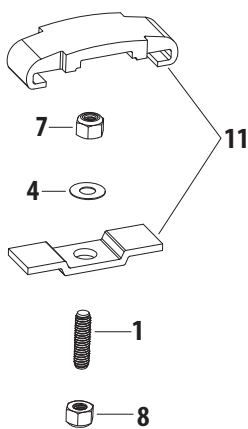
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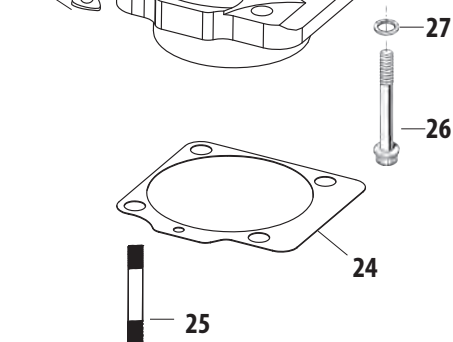
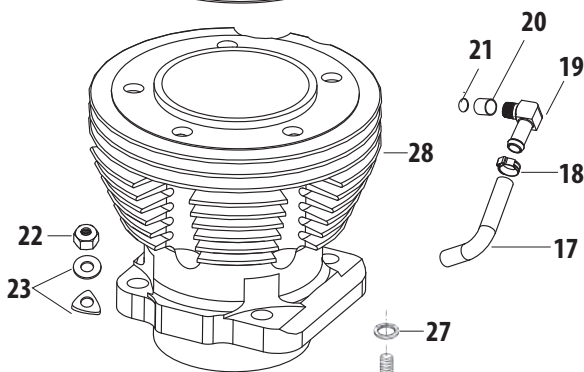
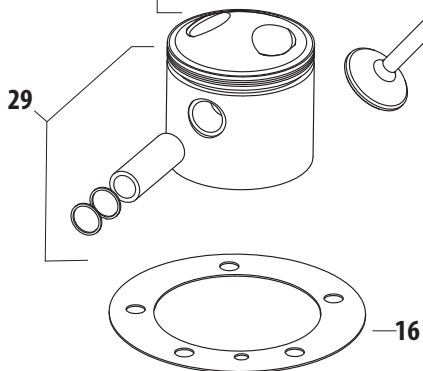
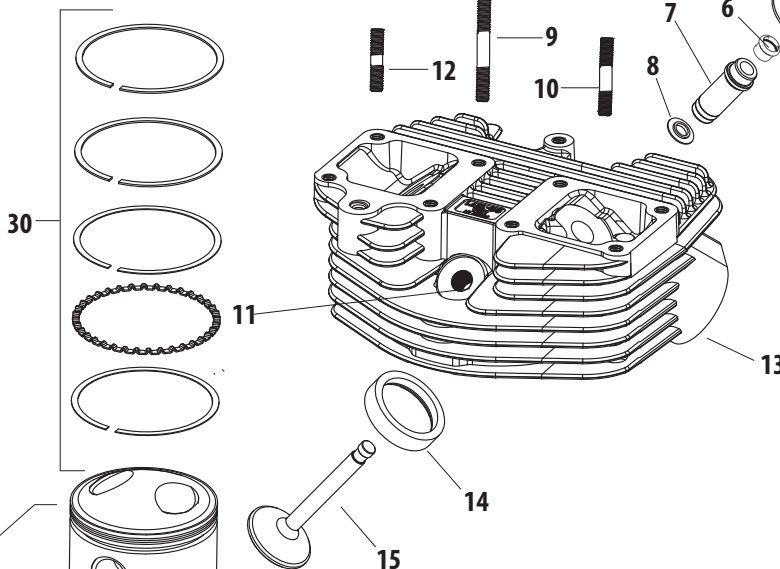
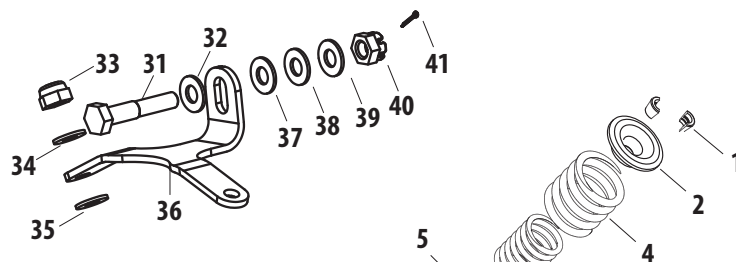
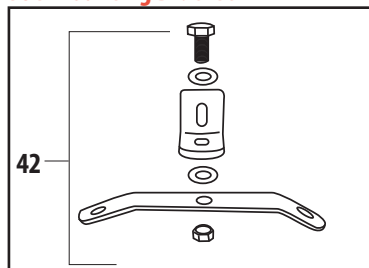
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#	Description	H-D® Part No.	VVT Part No.
1	Valve Keeper, 1936-'84 bt See chart for complete Valve Spring Kit	18228-36	90-2037-S
2	Collar, Valve Spring - Upper (2) Late 1981-'84 See chart for complete Valve Spring Kit	18219-81	—
	Collar, Valve Spring - Upper (2) 1966-Early '81 See chart for complete Valve Spring Kit	18221-36	—
3	Valve Spring, Inner (2) 1966-'80 FLH, 1970-'84 See chart for complete Valve Spring Kit	18202-82	—
	Valve Spring, Inner (2) 1966-'69 See chart for complete Valve Spring Kit	18204-36A	—
	Valve Spring Kit, includes Inner & Outer Spring 1966-Early '82 See chart for complete Valve Spring Kit	18205-57	—
4	Valve Spring, Outer (2) 1966-'80 FLH, 1970-'84 See chart for complete Valve Spring Kit	18201-82	—
5	Collar, Valve Spring - Lower (2), 1966-'79 See chart for complete Valve Spring Kit	18222-48	—
	Collar, Valve Spring - Lower (2) 1980 & Early '81 See chart for complete Valve Spring Kit	18222-79	—
	Collar, Bottom, Valve Spring, .550", Steel, (2) 1981-'84 bt See chart for complete Valve Spring Kit	18222-81	90-2038
6	Seal, Valve Guide, L1981-'84 bt <i>each</i>	18000-81	90-2019
	Seal, Valve Guide, L1981-'84 bt <i>8 Pack</i>		90-2157
	Valve Guide, Intake/Exhaust, Standard, Cast Iron, 1980-'84 bt		90-2240
	Valve Guide, Intake/Exhaust, +.060", Cast Iron, 1980-'84 bt		90-2249
7	Valve Guide, Intake/Exhaust, +.001", Cast Iron, (2) 1980-'84 bt	18109-81A	90-2241
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, (2) 1980-'84 bt	18108-81A	90-2242
	Valve Guide, Intake/Exhaust, +.003", Cast Iron, (2) 1980-'84 bt	18107-81A	90-2243
	Valve Guide, Intake/Exhaust, +.004", Cast Iron, (2) 1980-'84 bt	18106-81A	90-2244
	Valve Guide, Intake/Exhaust, +.006", Cast Iron, (2) Late 1981-'84	18104-81A	—
	Valve Guide, Intake/Exhaust, +.008", Cast Iron, (2) Late 1981-'84	18103-81A	—
	Valve Guide, Intake/Exhaust, +.001", Cast Iron, (2) 1966-'79	18138-79A	—
	Valve Guide, Intake/Exhaust, .+.002", Cast Iron, (2) 1966-'79	18143-79A	—
	Valve Guide, Intake/Exhaust, +.004", Cast Iron, (2) 1966-'79	18141-79A	—
	Valve Guide, Intake/Exhaust, +.006", Cast Iron, (2) 1966-'79	18140-79A	—
	Valve Guide, Intake/Exhaust, +.008", Cast Iron, (2) 1966-'79	18139-79A	—
	Valve Guide, Intake +.004" (2) 1966-'79	18167-49	—
	Valve Guide, Intake +.008" (2) 1966-'79	18170-49	—
	Valve Guide, Exhaust +.003" (2) 1966-'79	18186-51	—
	Valve Guide, Exhaust +.004" (2) 1966-'79	18187-51	—
	Valve Guide, Exhaust +.008" (2) 1966-'79	18194-51	—
8	Retaining Ring, Cast Iron Valve Guides (4) 1980 & Early '81	18105-79	—
9	Stud, Rocker Arm Cover (long) (8) [(7)-1980 & Later], 1966-'84	17506-66A	—
10	Stud, Rocker Arm Cover (short) [(2) - 1980, 83], 1966-'84	17508-66	—
11	Heli-coil Insert, Spark Plug Hole, 1966-'74	16725-66A	—
12	Stud, Cylinder Head Motor Brace, 1966-'84	16864-48	—
13	Head, Rear Cylinder, 1966-'79 (o-ring style) See chart for complete Cylinder Head Kit	17121-80	—
	Head, Front Cylinder, 1966-'79 (o-ring style) See chart for complete Cylinder Head Kit	17120-80	—
	Head, Front Cylinder, w/ Studs (painted), 1979	17130-80	—
	Head, Rear Cylinder, w/ Studs (painted), 1979	17131-80	—
	Head, Front Cylinder, w/ Studs, 1980-'84 (band style) See chart for complete Cylinder Head Kit	17160-81	—
	Head, Rear Cylinder, w/ Studs, 1980-'84 (band style) See chart for complete Cylinder Head Kit	17161-81	—
	Head, Front Cylinder - (painted black wrinkle), 1980-'82	17170-81	—
	Head, Rear Cylinder - (painted black wrinkle), 1980-'82	17171-81	—
	Head, Front Cylinder - (painted silver), 1980-'82	17180-81	—
	Head, Rear Cylinder - (painted silver), 1980-'82	17181-81	—
14	Seat, Exhaust, 1.750", 1948-'84 bt See chart for oversize Seat options	18017-66, 18055-66B, 18010-79	90-2018
	Seat, Intake, 1.950", 1966-'84 bt See chart for oversize Seat options	18018-66, 18056-66B, 18020-79	90-2017
	Seat, Exhaust Valve Seat, +.005", 1966-'79 See chart for oversize Seat options	18057-66	—
15	Valve, Intake, Stock Heads, 1.950" x 3.885" @ 1.879" Gauge, 1966-Early '81 See chart for oversize Intake Valve option	18075-80	90-2015
	Valve, Intake, Stock Heads, 1.950" x 3.885" @ 1.879" Gauge, Late 1981-'84 See chart for oversize Intake Valve option	18075-81	90-2015
	Valve, Intake, Stock Heads, 1.950" x 3.885" @ 1.879" Gauge, 1966-Early '81 See chart for oversize Intake Valve option	18078-80	90-2015
	Valve, Intake, Stock Heads, 1.950" x 3.885" @ 1.879" Gauge, Late 1981-'84 See chart for oversize Intake Valve option	18078-81	90-2015
	Valve, Exhaust (special +.156" head), 1966-'84 See chart for oversize Exhaust Valve option	18082-60	—
	Valve, Exhaust, 1.720" x 3.724" @ 1.680" Gauge, 1948-'84 bt, 1966-Early '81 See chart for oversize Exhaust Valve option	18086-80	90-2022
	Valve, Exhaust, 1.720" x 3.724" @ 1.680" Gauge, 1948-'84 bt, Late 1981-'84 See chart for oversize Exhaust Valve option	18086-81	90-2022



S&S Mounting Bracket



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#	Description	H-D® Part No.	VVT Part No.
	Valve, Exhaust, 1.720" x 3.724" @ 1.680" Gauge, 1948-'84 bt, 1966-Early '81 See chart for oversize Exhaust Valve option	18089-80	90-2022
	Valve, Exhaust, 1.720" x 3.724" @ 1.680" Gauge, 1948-'84 bt, Late 1981-'84 See chart for oversize Exhaust Valve option	18089-81	90-2022
16	Gasket, Head, .032", Stock, Copper, 1966-'84 bt <i>each</i>	16770-66B	93-1041
	Gasket, Head, .032", Stock, Copper, 1966-'84 bt <i>10 Pack</i>		93-1061
17	Hose, 1/4 I.D. x 5/8 O.D. reinforced rubber (25 ft. lg.) Late 1981	63501-68	—
18	Clamp, hose (4), Late 1981	10014	—
19	Fitting, Cylinder Base (2), Late 1981-Early '82	16303-81	—
	Fitting, Cylinder Base (2) Late 1982	62375-57	—
20	Spacer, Front Cylinder Base, Late 1981	5723	—
21	O-ring, Front Cylinder Base Fitting, Late 1981	11101	—
22	Nut, Cylinder Base, HH, 7/16-20 UNF-2B, Cadmium Plated, Stock 1930-'78 bt See chart for Nut and Washer Kit and optional Stainless Steel version	16602-30	106-4524
	Locknut, 7/16-20 x 3/8 x 9/16 hex. (4), 1978 to 84	16838-78	—
23	Lockwasher, 7/16 (4), 1966 to 77	7039	—
	Spacer, Cylinder Base Stud (4), 1978-'84	16836-78	—
24	Gasket, Base, .020", Stock, 1966-'84 bt (Logo Side Faces Cylinder) <i>each</i>	16776-63	93-1023-S
	Gasket, Base, .020", Stock, 1966-'84 bt (Logo Side Faces Cylinder) <i>10 Pack</i>		93-1070
	Gasket, Rear Cylinder Base, 1966-'84	16777-63	—
25	Stud, Cylinder Base, 7/16-14 UNC, 7/16-20 UNF x 2.0, Zinc, Steel, 1936-'84 bt <i>each</i>	16831-30	31-2328-S
	Stud, Cylinder Base, 7/16-14 UNC, 7/16-20 UNF x 2.0, Zinc, Steel, 1936-'84 bt, <i>8 Pack</i>		31-2328
	Stud, Cylinder Base, 7/16-14 ONF, 7/16-20 UNF x 2.3, Black, Steel, 1936-'84 bt, <i>each</i>	16837-78	31-2324-S
	Stud, Cylinder Base, 7/16-14 ONF, 7/16-20 UNF x 2.3, Black, Steel, 1936-'84 bt, <i>8 Pack</i>		31-2324
26	Head Bolt, 12 pt, 7/16-20 x 2-3/8" x 1" TD <i>each</i> See chart for compatible option	16814-77	—
	Head Bolt, w/ Washer, 12 pt, 7/16-20 X 2-3/8" x 1" TD <i>10 Pack</i> See chart for compatible option		—
27	Washer, 7/16 x 3/4 x 1/8 (5), 1966-Early 77	6469HW	—
28	Cylinder with piston, Front, 1966-'73 1200cc LC See chart for compatible Cylinder options	16484-66B	—
	Cylinder with piston, Rear, 1966-'73 1200cc LC See chart for compatible Cylinder options	16493-66B	—
	Cylinder with piston, Front, 11966-'73 1200cc HC See chart for complete Cylinder Kit	16485-66B	—
	Cylinder with piston, Rear, 1966-'73 1200cc HC See chart for complete Cylinder Kit	16492-66B	—
	Cylinder with piston, Front, 1974-'80 1200cc LC See chart for compatible Cylinder options	16484-74A	—
	Cylinder with piston, Rear, 1974-'80 1200cc LC See chart for compatible Cylinder options	16493-74A	—
	Cylinder with piston, Front, 1974-'80 1200cc HC See chart for complete Cylinder Kit	16485-74A	—
	Cylinder with piston, Rear, 1974-'80 1200cc HC See chart for complete Cylinder Kit	16492-74A	—
	Cylinder with piston, Front, 1978-'80 1340cc HC See chart for complete Cylinder Kit	16494-78	—
	Cylinder with piston, Rear, 1978-'80 1340cc HC See chart for complete Cylinder Kit	16495-78	—
	Cylinder with piston, Front, Late 1983-'84 1340cc LC See chart for compatible Cylinder options	16498-80A	—
	Cylinder with piston, Rear, Early 1981, Late 1982-'84 1340cc LC See chart for compatible Cylinder options	16499-80A	—
	Cylinder with piston, Front, Late 1981 & Early '82 1340cc LC See chart for compatible Cylinder options	16508-81	—
	Cylinder with piston, Rear, Late 1981 & Early '82 1340cc LC See chart for compatible Cylinder options	16509-81	—
	Cylinder with piston, Rear, 1980-'84 1340cc LC See chart for compatible Cylinder options	16496-80	—
	Cylinder with piston, Front, 1980-'84 1340cc LC See chart for compatible Cylinder options	16497-80	—
	Cylinder with piston, Front, Early 1981, Late 1982-'84 1340cc LC See chart for compatible Cylinder options	16498-80	—
	Cylinder with piston, Rear, Early 1981, Late 1982-'84 1340cc LC See chart for compatible Cylinder options	16499-80	—
	Cylinder with piston, Front, (Silver), 1981-'84 1340cc LC See chart for compatible Cylinder options	16497-81	—
	Cylinder with piston, Rear, (Silver) 1981-'84 1340cc LC See chart for compatible Cylinder options	16496-81	—
29	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1953-'73 1200cc LC See chart for compatible Piston Set options	22101-53C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.01", 1953-'73 1200cc LC See chart for compatible Piston Set options	22103-53D	—
	Piston, Rings, Pin & Lock Ring Assembly, +.02", 1953-'73 1200cc LC See chart for compatible Piston Set options	22104-53D	—
	Piston, Rings, Pin & Lock Ring Assembly, +.03, 1953-'73 1200cc LC See chart for compatible Piston Set options	22105-53D	—
	Piston, Rings, Pin & Lock Ring Assembly, +.04", 1953-'73 1200cc LC See chart for compatible Piston Set options	22106-53D	—
	Piston, Rings, Pin & Lock Ring Assembly, +.05", 1953-'73 1200cc LC	22107-53C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.06", 1953-'73 1200cc LC	22108-53D	—
	Piston, Rings, Pin & Lock Ring Assembly, +.07", 1953-'73 1200cc LC	22109-53C	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1974-'80 1200cc LC See chart for compatible Piston Set options	22101-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.01", 1974-'80 1200cc LC See chart for compatible Piston Set options	22103-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.02", 1974-'80 1200cc LC See chart for compatible Piston Set options	22104-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.03", 1974-'80 1200cc LC See chart for compatible Piston Set options	22105-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.04", 1974-'80 1200cc LC See chart for compatible Piston Set options	22106-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.05", 1974-'80 1200cc LC	22107-74A	—

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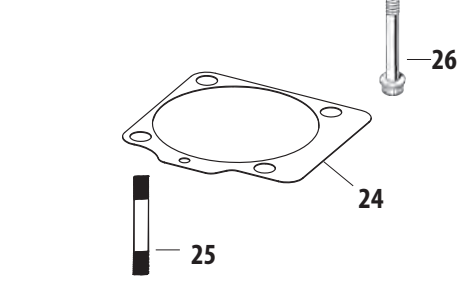
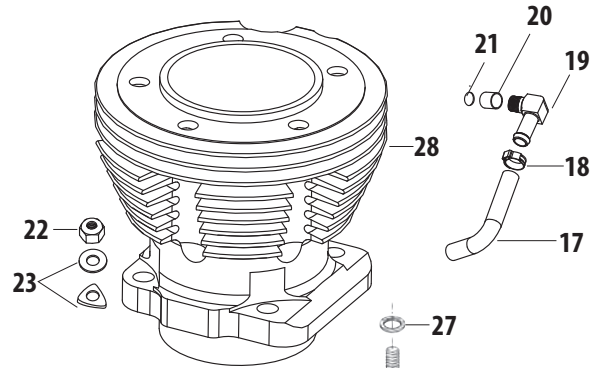
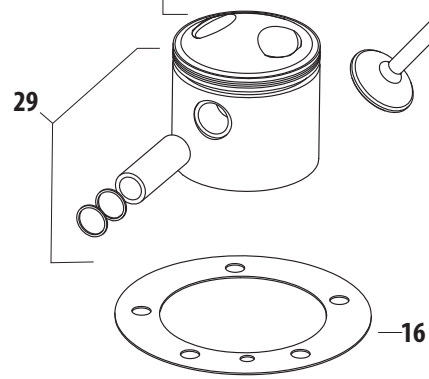
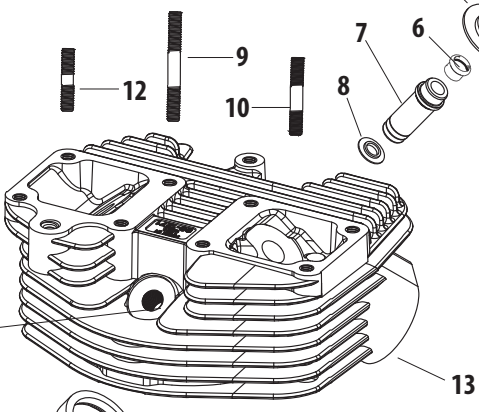
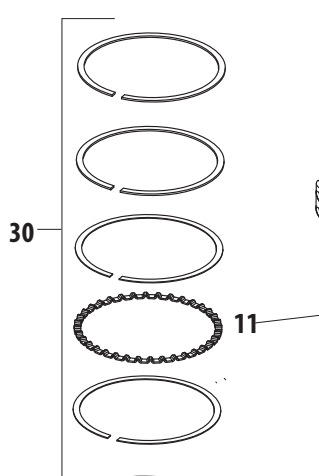
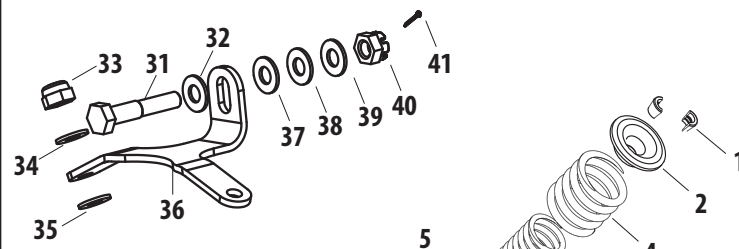
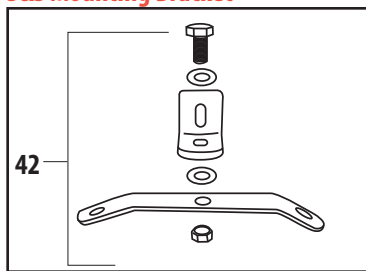
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#	Description	H-D® Part No.	VVT Part No.
	Piston, Rings, Pin & Lock Ring Assembly, +.06", 1974-'80 1200cc LC	22108-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.07", 1974-'80 1200cc LC	22109-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1955-'73 -1200cc HC <i>See chart for complete Piston Set</i>	22141-55B	—
	Piston, Rings, Pin & Lock Ring Assembly, +.01", 1955-'73 -1200cc HC <i>See chart for compatible Piston Set options</i>	22143-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.02", 1955-'73 -1200cc HC <i>See chart for compatible Piston Set options</i>	22144-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.03", 1955-'73 -1200cc HC <i>See chart for compatible Piston Set options</i>	22145-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.04", 1955-'73 -1200cc HC <i>See chart for compatible Piston Set options</i>	22146-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.05", 1955-'73 -1200cc HC	22147-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.06", 1955-'73 -1200cc HC	22148-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, +.07", 1955-'73 -1200cc HC	22149-55C	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1974-'80 -1200cc HC <i>See chart for complete Piston Set</i>	22141-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.01", 1974-'80 -1200cc HC <i>See chart for compatible Piston Set options</i>	22143-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.02", 1974-'80 -1200cc HC <i>See chart for compatible Piston Set options</i>	22144-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.03", 1974-'80 -1200cc HC <i>See chart for compatible Piston Set options</i>	22145-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.04", 1974-'80 -1200cc HC <i>See chart for compatible Piston Set options</i>	22146-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.050", 1974-'80 -1200cc HC	22147-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.060", 1974-'80 -1200cc HC	22148-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.070", 1974-'80 -1200cc HC	22149-74A	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1979-'80 -1340cc HC <i>See chart for compatible Piston Set options</i>	22191-78	—
	Piston, Rings, Pin & Lock Ring Assembly, +.010", 1979-'80 -1340cc HC <i>See chart for compatible Piston Set options</i>	22192-78	—
	Piston, Rings, Pin & Lock Ring Assembly, +.020", 1979-'80 -1340cc HC <i>See chart for compatible Piston Set options</i>	22194-78	—
	Piston, Rings, Pin & Lock Ring Assembly, +.030", 1979-'80 -1340cc HC <i>See chart for compatible Piston Set options</i>	22196-78	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, 1981-E83 1340cc LC <i>See chart for compatible Piston Set options</i>	21990-80	—
	Piston, Rings, Pin & Lock Ring Assembly, +.010", 1981-E83 1340cc LC <i>See chart for compatible Piston Set options</i>	21991-80	—
	Piston, Rings, Pin & Lock Ring Assembly, +.020", 1981-E83 1340cc LC <i>See chart for compatible Piston Set options</i>	21992-80	—
	Piston, Rings, Pin & Lock Ring Assembly, +.030", 1981-E83 1340cc LC <i>See chart for compatible Piston Set options</i>	21993-80	—
	Piston, Rings, Pin & Lock Ring Assembly, +.005", 1981-E83 1340cc LC	21994-83	—
	Piston, Rings, Pin & Lock Ring Assembly, Standard, Late 1983-'84 1340cc LC <i>See chart for compatible Piston Set options</i>	21990-80A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.010", Late 1983-'84 1340cc LC <i>See chart for compatible Piston Set options</i>	21991-80A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.020", Late 1983-'84 1340cc LC <i>See chart for compatible Piston Set options</i>	21992-80A	—
	Piston, Rings, Pin & Lock Ring Assembly, +.030", Late 1983-'84 1340cc LC <i>See chart for compatible Piston Set options</i>	21993-80A	—
30	Ring, Set, Piston, 3-7/16", Standard, Moly Faced, .0625, .0625, .184, 1966-'84 bt	22325-55B	94-2200X
	Ring, Set, Piston, 3-7/16", +.010", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22327-55B	94-2201X
	Ring, Set, Piston, 3-7/16", +.020", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22328-55B	94-2202X
	Ring, Set, Piston, 3-7/16", +.030", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22329-55B	94-2203X
	Ring, Set, Piston, 3-7/16", +.040", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22330-55B	94-2204X
	Ring, Set, Piston, +.050", 1955-'80 1200cc	22331-55B	—
	Ring, Set, Piston, 3-7/16", +.060", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22334-78A	94-2206X
	Ring, Set, Piston, 3-7/16", +.060", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22334-78B	94-2206X
	Ring, Set, Piston, 3-7/16", +.070", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22335-78A	94-2207X
	Ring, Set, Piston, 3-7/16", +.070", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22335-78B	94-2207X
	Ring, Set, Piston, +.020", 1955-E'82	22336-78A	—
	Ring, Set, Piston, 3-7/16", +.080", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22336-78B	94-2208X
	Ring, Set, Piston, 3-7/16", +.090", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22337-78B	94-2209X
	Ring, Set, Piston, 3-7/16", Standard, Moly Faced, .0625, .0625, .184, 1966-'84 bt	22355-53	94-2200X
	Ring, Set, Piston, 3-7/16", +.020", Moly Faced, .0625, .0625, .184, 1966-'84 bt	22358-53	94-2202X
	Ring, Set, Piston, 3-7/16", +.060", Moly Faced, .0625, .0625, .184, 1966-'84 bt	21920-83	94-2206X
	Ring, Set, Piston, +.005", Late 1983-'84 1340cc	21921-83	—
	Ring, Set, Piston, 3-7/16", +.070", Moly Faced, .0625, .0625, .184, 1966-'84 bt	21922-83	94-2207X
	Ring, Set, Piston, 3-7/16", +.080", Moly Faced, .0625, .0625, .184, 1966-'84 bt	21923-83	94-2208X
	Ring, Set, Piston, 3-7/16", +.090", Moly Faced, .0625, .0625, .184, 1966-'84 bt	21924-83	94-2209X
31	Screw, HHC, 7/16-20 x 1-1/4"	4726	50-0176
	Bolt, engine bracket - center, 1966-'72	16865-52	—
32	Washer, 3/8 x 1 x 5/64 (2), Late 1971-'78	6416	—
	Washer, 7/16 x 1-1/8 x 1/8, 1966-'84	6516HW	—
	Washer, 29/64 x 1-1/8 x 5/32 (2), 1966-'78	6522HB	—
33	Nut, Lock, HH, 7/16-20, Steel/Nylon	7825	50-5045

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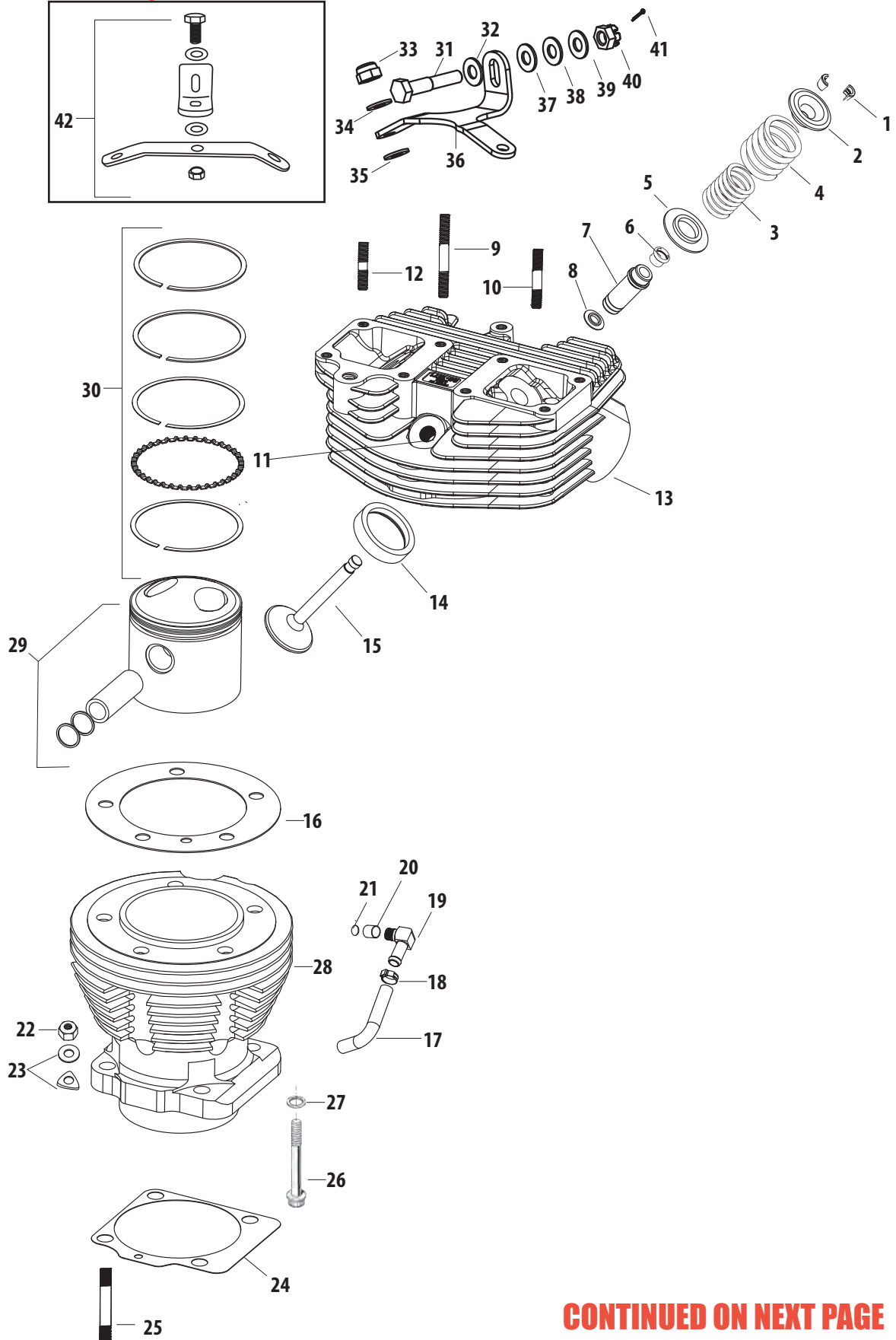
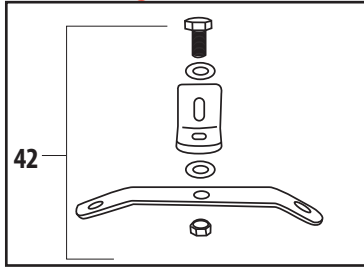
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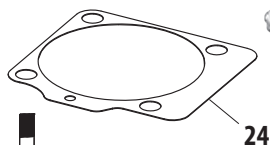
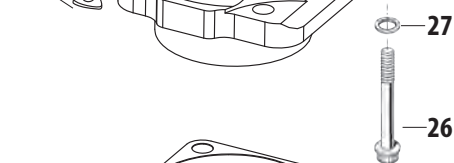
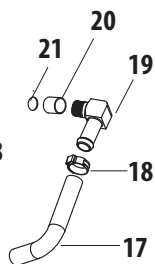
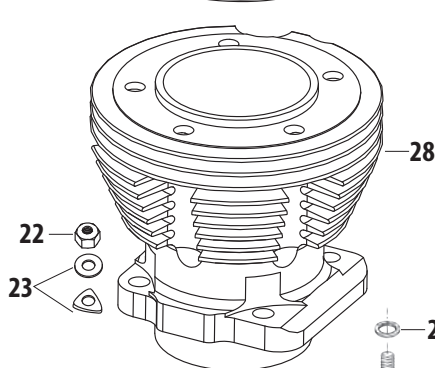
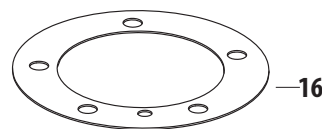
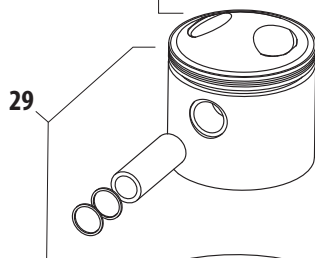
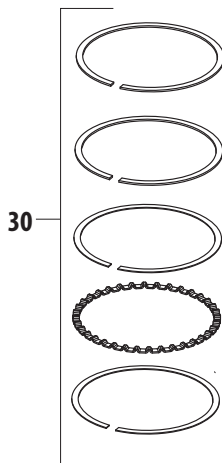
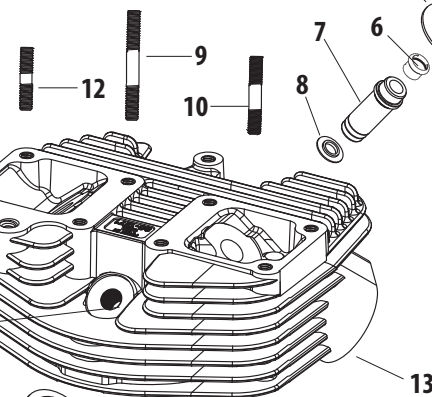
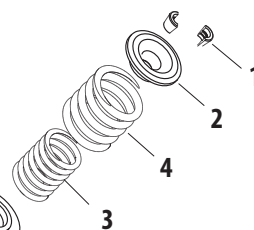
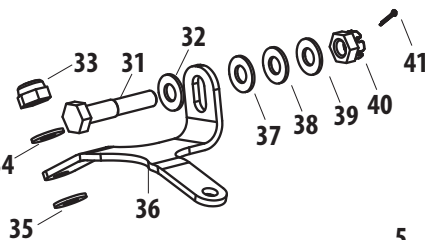
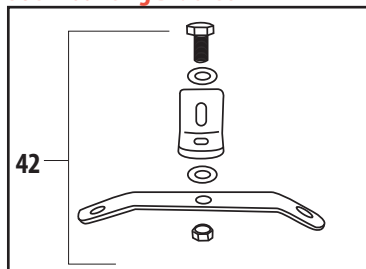
#	Description	H-D® Part No.	VVT Part No.
34	Washer, Flat, .469" x .922" x .125", Zinc, Steel	6495HW	50-7064
35	Washer, 7/16 x 1-1/8 x 1/8, 1966-'84	6516HW	—
36	Bracket, Engine Mounting, 1957-'84 <i>See chart for complete Engine Mount Kit</i>	16852-67A	—
	Bracket, Engine Mounting, 1966 <i>See chart for complete Engine Mount Kit</i>	16853-48	—
37	Washer, 7/16 x 1-1/8 x 1/16, Late 1971-'84	6497HW	—
	Washer, 7/16 x 1-1/8 x 1/8, 1966-'84	6516HW	—
	Washer, 29/64 x 1-1/8 x 1/64, 1966-'69	6524W	—
38	Washer, 7/16 x 1-1/8 x 1/16, Late 1971-'84	6497HW	—
	Washer, 29/64 x 1-1/8 x 5/32, 1966-'78	6522HB	—
39	Washer, 3/8 x 1 x 5/64, Late 1971-'78	6416	—
	Washer, 7/16 x 1-1/8 x 1/8, 1966-'84	6516HW	—
40	Nut, Lock, HH 7/16-20, 1966-'72	7867W	—
	Nut, Lock, HH, 7/16-20, Steel/Nylon	7825	50-5045
41	Cotter Pin, 3/32 x 7/8, 1966-'72	534	—
42	Kit, Bracket, Engine Mounting, 1948-'84 <i>See chart for complete Engine Mount Kit</i>	—	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) <i>Note: These products are compatible replacements as assemblies.</i>		
#	Description	VVT Part No.
1, 2, 3, 4, 5	Spring, Kit, Valve, Dual, Steel, .550", 1948-'84 bt	90-2053
13	Head, Kit, Stock Bore, O-ring Style, .590" Triple Steel, Single Plug, Internal Oil, Natural, 1966-'77 bt (Fits 1978*)	90-1496
	Head, Kit, Stock Bore, Band Style, .590" Triple Steel, Single Plug, Internal Oil, Natural, 1979-'84 bt*	90-1498
14	Seat, Intake, 1.950" + .010", 1966-'84 bt	90-2117
	Seat, Exhaust, 1.750" + .002", 1948-'84 bt	90-2119
	Seat, Exhaust, 1.750" + .010", 1948-'84 bt	90-2121
15	Valve, Intake, +.005" Stem Diameter, 1.950" x 3.885" @ 1.879" Gauge, 1966-'84 bt	90-2020
	Valve, Exhaust, +.005" Stem Diameter, 1.720" x 3.724" @ 1.680" Gauge, 1948-'84 bt	90-2031
22	Nut, Kit, Base, Cadmium Plated, Stock Bore 1930-'78 bt (Includes 8 nuts and 8 washers)	106-4522
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>each</i>	93-3063-S
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>8 pack</i>	93-3063
26	Head Bolt, w/ Washer, 12 pt, 7/16-20 X 2-3/8" x 1" TD, <i>each</i>	93-3024-S
	Head Bolt, w/ Washer, 12 pt, 7/16-20 X 2-3/8" x 1" TD, <i>10 Pack</i>	93-3024
28	Cylinder, Kit, 3-7/16" Bore, 5.330", 3-31/32" Stroke, 106-5495, Gloss Black, 8.0:1 Compression, 1966-'84 bt	91-9013
	Cylinder, Kit, 3-1/2" Bore, 5.330", 4-1/4" Stroke, 106-5511, Gloss Black, 8.0:1 Compression, 1966-'84 bt	91-9024
	Cylinder, Front, 3-7/16" Bore, 5.330", Packaged, Gloss Black, 1966-'84 bt	91-9010F
	Cylinder, Rear, 3-7/16" Bore, 5.330", Packaged, Gloss Black, 1966-'84 bt	91-9010R
	Cylinder, Set, 3-7/16" Bore, 5.330", w/ Gaskets & Hardware, Gloss Black, 1966-'84 bt	91-9011
	Cylinder, Front, 3-1/2" Bore, 5.330", Packaged, Gloss Black, 1966-'84 bt	91-9020F
	Cylinder, Rear, 3-1/2" Bore, 5.330", Packaged, Gloss Black, 1966-'84 bt	91-9020R
	Cylinder, Set, 3-1/2" Bore, 5.330", w/ Gaskets & Hardware, Gloss Black, 1966-'84 bt	91-9021
29	Piston, Set, 3-7/16", Standard, 74", LC, Forged, .791" WP, 1936-'84 bt	106-5495
	Piston, Set, 3-1/2", Standard, 80", LC, .791" WP, 1979-'84 bt	106-5511
	Piston, Set, 3-7/16", Standard, HC, .791" WP, 1936-'84 bt	106-5503
	Piston, Set, 3-7/16", +.010", HC, .791" WP	106-5504
	Piston, Set, 3-7/16", +.020", HC, .791" WP, 1936-'84 bt	106-5505
	Piston, Set, 3-7/16", +.030", HC, .791" WP, 1936-'84 bt	106-5506
	Piston, Set, 3-7/16", +.040", HC, .791" WP, 1936-'84 bt	106-5775
	Piston, Set, 3-1/2", +.010", 80", LC, .791" WP, 1979-'84 bt	106-5512
	Piston, Set, 3-1/2", +.020", LC, .791" WP, 1936-'84 bt	106-5513
	Piston, Set, 3-1/2", +.030", 80", LC, .791" WP, 1979-'84 bt	106-5514
	Piston, Set, 3-1/2", Standard, HC, .791" WP, 1936-'84 bt	106-5519
	Piston, Set, 3-1/2", +.010", HC, .791" WP, 1936-'84 bt	106-5520
	Piston, Set, 3-1/2", +.020", HC, .791" WP, 1936-'84 bt	106-5521
	Piston, Set, 3-1/2", +.030", HC, .791" WP, 1936-'84 bt	106-5522
36	Mount, Top, Engine, 2-Piece, Natural, Steel, 1948-'84 bt	93-4057
42	Mount, Top, Engine, 2-Piece, Natural, Steel, 1948-'84 bt	93-4057

* Not legal for sale or use on CA or EPA pollution controlled vehicles.



S&S Mounting Bracket



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Parts for
Twin Cam 96™/103™
2007-2012

Parts for
Twin Cam 88®
1999-2006

Parts for
Evolution®
1984-1999

Parts for
Sportster®
1986-2012

Parts for
Shovelheads

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Parts for
Knuckleheads

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Flatheads

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ROCKER ARM, COVER & PUSHROD REPLACEMENT PARTS FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS

Parts for Twin Cam 96™/103™ 2007-2012

Parts for Twin Cam 88® 1999-2006

Parts for Evolution® 1984-1999

Parts for Sportster® 1986-2012

Parts for Shovelheads

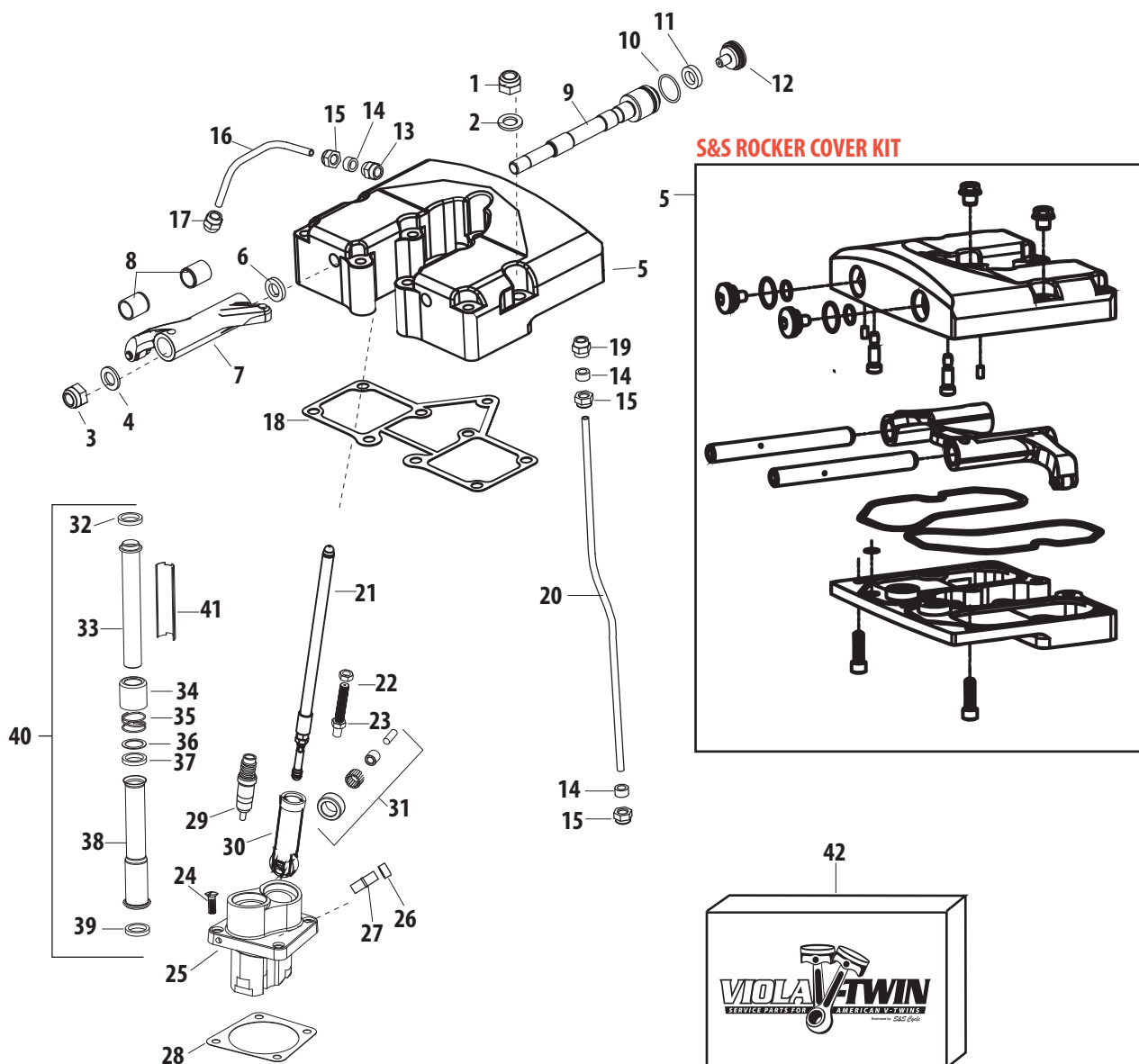
Parts for Panheads

Parts for Knuckleheads

Parts for Flatheads

Index Cross Reference

#	Description	H-D® Part No.	VWT Part No.
1	Nut, 5/16-24 x 1/2 hex. (black) (9), 1979	7509	—
	Nut, 5/16-24 x 17/64 x 1/2 hex. (9), 1966-'84	7753	—
2	Washer, 5/16 x 5/8 x 1/16 (black) (9), 1979	6002	—
	Washer, 11/32 x 11/16 x 1/16 (9) Late 1983-'84	6016	—
	Washer, 5/16 x 5/8 x 1/16 (9), 1980-E'83	6316HW	—
	Washer, 5/16 x 11/16 x 1/16 (9), 1966-'79	6702	—
3	Acorn Nut, 7/16-20 x 11/16 x 5/8 hex. (chrome) (2), 1981-'84	7873	—
	Acorn Nut, 7/16-20 x 5/8 x 5/8 hex. (chrome) (2), 1966-'80	7875	—
4	Washer, 7/16 x 3/4 x 1/32 (black) (4) 1979	6001	—
	Washer, 7/16 x 3/4 x .025(2) 1966-'84	6466W	—
5	Rocker Arm Cover, Kit, Rear with 17508-66A STUD, 1966-'84 <i>See chart for complete Rocker Box Kit</i>	17550-80	—
	Rocker Arm Cover, Kit, Front with 17508-66A STUD, 1966-'84 <i>See chart for complete Rocker Box Kit</i>	17552-80	—
6	Spacer, Rocker Arm (2), 1966-'84	17452-66	—
7	Rocker Arm, Rear Exhaust and Front Intake, 1966-'84 <i>See chart for Rocker Arm options</i>	17360-66A	—
	Rocker Arm, Set, 1966-'84 <i>See chart for Rocker Arm options</i>	—	—
	Rocker Arm, Front Exhaust and Rear Intake, 1966-'84 <i>See chart for Rocker Arm options</i>	17375-66A	—
8	Bushing, Rocker Arm (4), 1966-'84	17428-57	—
9	Shaft, Rocker Arm (2), 1966-'84	17611-66B	—
10	O-ring, Rocker Arm Shaft 1966-'84 (pushrod cover - upper Late 1979-E'81)	11101	—
11	Washer, Rocker Arm Shaft (2), 1973-'81	17450-73	—
12	Screw, Rocker Arm Shaft End (2), 1966-E'71	17448-57	—
	Screw, Rocker Arm Shaft End (chrome) (2), Late 1971-'84	17448-71A	—
	Screw, Rocker Arm Shaft End (black) (2), 1979	17449-77	—
13	Oil Line Fitting, Rocker Arm Cover, 1966-E'82	63526-57	—
	Oil Line Fitting, Rocker Arm Cover, Late 1982-'84	63543-82	—
14	Sleeve, Oil Line (4), 1966-'84	63529-57	—
15	Nut, Oil Line (4), 1966-'84	63527-57A	—
16	Oil Line Fitting, Top Cover Cross-over (chrome), 1966-'84	62783-66A	—
17	Oil Line Fitting, Rocker Arm Cover - Front, 1981-'84 bt	62484-81	—
18	Gasket, Rocker Cover, Graphite, 1966-'84 bt <i>each</i>	—	90-4040
	Gasket, Rocker Cover, Graphite, 1966-'84 bt <i>10 Pack</i>	17540-69A	90-4064
19	Oil Line Fitting, Rocker Arm Cover (2 - Early 82 & Earlier), 1966-'84	63526-57	—
20	Oil Line Tube, Crankcase to Top Cover (chrome), 1966 to 84	62785-66A	—
21	Pushrod, Set, Adjustable, Hydraulic Tappet, Stock, Steel, 1966-'84 bt	17904-66	93-5070
22	Nut, Tappet Adjusting Screw, 1966-'84	18570-38	—
23	Tappet Adjusting Screw with Nut(2) 1966-'84 <i>See chart for compatible Screw</i>	18556-57	—
24	Screw, 1/4-20 x 7/8 12 pt. ctsk. hd. (4) (black), 1979	906	—
	Screw, Tappet Guide (4), 1966-E'76	18660-53	—
	Screw, 1/4-24 x 7/8 x 12 pt. hd. (4), 1966-E'76	3750	—
	Screw, 1/4-20 x 7/8 12 pt. ctsk. hd. (4), Late 1976-'84	3770	50-0246P
25	Tappet Guide, Front Cylinder, 1966-E'76	18600-66C	—
	Tappet Guide, Front Cylinder, Late 1976-'84	18603-80A	—
	Tappet Guide, Front Cylinder, Late 1981 & Early 1982	18597-81	—
	Tappet Guide, Rear Cylinder, Late 1982-'84	18602-80A	—
	Tappet Guide, Rear Cylinder, Late 1981 & Early 1982	18598-81	—
	Tappet Guide, Rear Cylinder, 1966-E'76	18610-66B	—
	Tappet Guide, Rear Cylinder, Late 1976-E'81	18610-76A	—
26	Clamp, Hose (4), Late 1981 & Early 1982	10014	—
27	Fitting, Tappet Guide, Late 1981 & Early 1982	18599-81	—
28	Gasket, Rear, Tappet Guide, 1948-'99 bt	18633-48B	33-5302R
	Gasket, Set, Tappet Guide, 1948-'99 bt	—	33-5302
	Gasket, Rear, Tappet Guide, 1948-'99 bt	18633-48D	33-5302R
	Gasket, Front, Tappet Guide, 1948-'99 bt	18634-48C	33-5302F
29	Insert, Assembly, Hydraulic, 1966 to 84 Crane Cams® <i>each</i>	17920-53A	3-0150
30	Tappet, Hydraulic, Roller, 1966 to 84 Crane Cams® <i>2 Pack Includes Hydraulic Insert</i>	18522-53A	3-1013
	Tappet, Hydraulic, Roller, Oversized, 1966 to 84 Crane Cams® <i>2 Pack Includes Hydraulic Insert</i>	—	3-10130S
31	Roller, Kit, Replacement, 1966 to 84 Crane Cams®	18534-29A	3-0101
32	O-ring, (-209), .687" ID x .937" OD, Viton® (pushrod cover - upper Late 79 to Early 81)	11101	50-8039
	Quad Seal, Pushrod Cover - Upper (4), Late 1981-'84	11118	—
	Cork Washer, Pushrod Cover - Upper (4), 1966-E'79	17955-36	—
33	Pushrod Cover, Top, Natural, Aluminum, 1966-up bt	17935-66T, 17935-79B	93-4016
	Pushrod Cover, Top, 1948-'70 <i>See chart for compatible Pushrod Cover</i>	17935-48B	—



S&S ROCKER COVER KIT

#	Description	H-D® Part No.	VVT Part No.
34	Cap, Pushrod Cover, 1936-up bt, 1957-'90 xl	17945-36B	93-4017
35	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt, 1957-'90 xl	17947-36	93-4018
36	Washer, Flat, .715" x .950" x .031", Steel	6762B	50-7131
37	O-ring, (-115), .687" ID x .875" OD, Black, Nitrile	11132A	50-8038
38	Cover, Lower Pushrod (2), 1966- E'79	17938-79	17938-48B
	Pushrod Cover, Bottom, w/ O-rings, Chrome, 1979-'84 bt	17938-79	93-4029
39	O-ring, Quad Seal, (-119), .937" ID x 1.125" OD, Viton®	11133A	50-8064-S
	Cork Washer, pushrod cover (lower) (2), 1966-E'79	17955-48	—
40	Pushrod Cover, Kit, Chrome, 1979-'84 bt	—	93-4040
41	Cover Keeper, Pushrod, 3.330", Chrome	17950-66	93-4035-S
42	Gasket Set, Top Overhaul, 1966-'78	17034-48B	—
	Gasket Set, Top Overhaul, 1979-'84	17034-80A	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
5	Rocker Box, Kit, Polished, Billet, 1966-'84 bt	90-4305
7	Rocker Arm, Set, Roller, 1.5:1 Ratio, 8620, 1966-'84 bt	900-4320A
	Rocker Arm, Assembly, FI/RE, Roller, 1.5:1 Ratio, 8620, 1966-'84 bt	900-4320RA
	Rocker Arm, Assembly, FE/RI, Roller, 1.5:1 Ratio, 8620, 1966-'84 bt	900-4320FA
23	Screw, Pushrod Adjustment, Black, Steel, 1936-'84 bt	33-5332
33	Pushrod Cover, Top, Natural, Zinc Plated, Steel, Stock 1936-'47 OHV bt	106-3850

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FLYWHEEL REPLACEMENT PARTS FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS

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2007-2012

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Twin Cam 88®
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Parts for
Evolution®
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Parts for
Sportster®
1986-2012

Parts for
Shovelheads

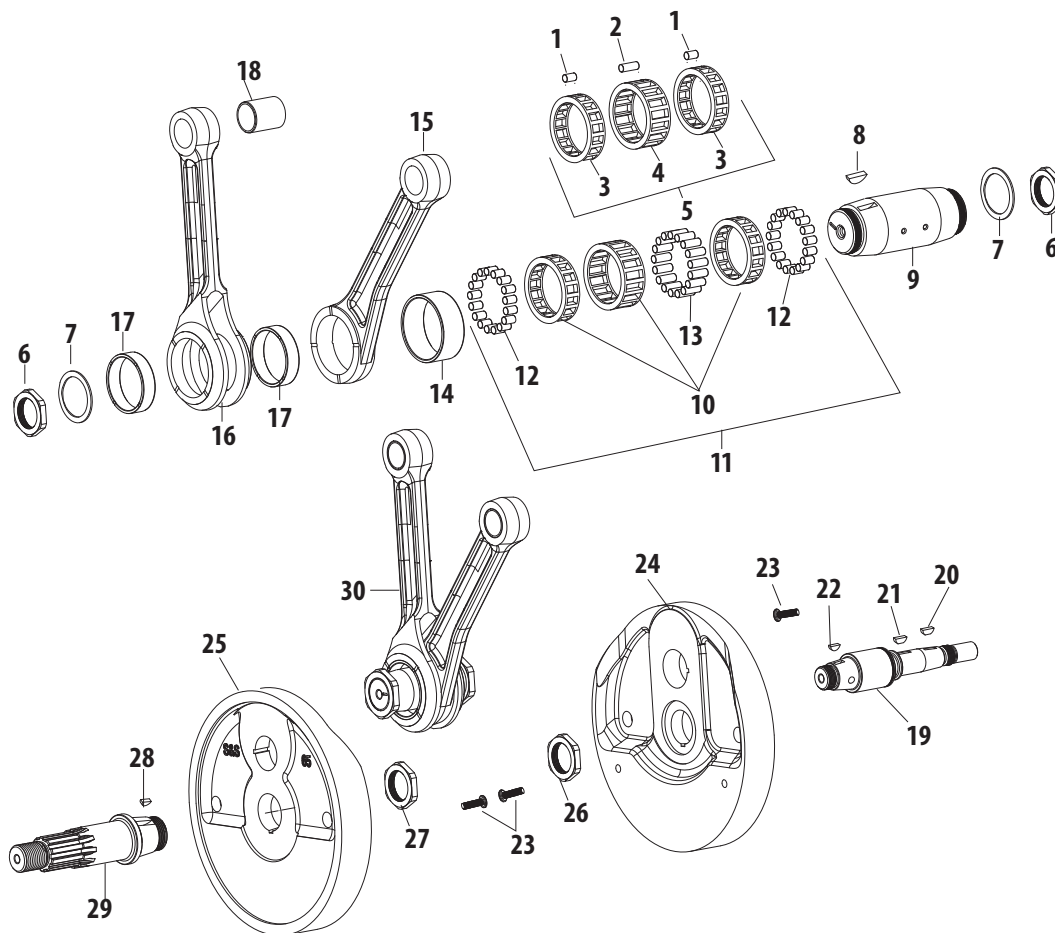
Parts for
Panheads

Parts for
Knuckleheads

Parts for
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#	Description	H-D® Part No.	VVT Part No.
1	Bearing, Rear, Rod, Standard, Alloy (34), 1973-'84	9441A	34-4034
	Bearing, Rear, Rod, 0.0002 O.S. (34), 1973-'84	9442A	—
	Bearing, Rear, Rod, 0.0004 O.S. (34), 1973-'84	9443A	—
	Bearing, Rear, Rod, 0.0006 O.S. (34), 1973-'84	9444A	—
	Bearing, Rear, Rod, 0.0008 O.S. (34), 1973-'84	9445A	—
	Bearing, Rear, Rod, 0.0010 O.S. (34), 1973-'84	9446A	—
2	Bearing, Rear, Rod, 0.0002 U.S. (34), 1973-'84	9450A	—
	Bearing, Front, Rod, Standard, Alloy (17), 1973-'84	9186	34-4033
	Bearing, Front, Rod, - 0.0002 O.S. (17), 1973-'84	9180	—
	Bearing, Front, Rod, - 0.0004 O.S. (17), 1973-'84	9181	—
	Bearing, Front, Rod, - 0.0006 O.S. (17), 1973-'84	9182	—
	Bearing, Front, Rod, - 0.0008 O.S. (17), 1973-'84	9183	—
3	Bearing, Front, Rod, - 0.0010 O.S. (17), 1973-'84	9184	—
	Bearing, Front, Rod, - 0.0002 U.S. (17), 1973-'84	9185	—
	Retainer, Crankpin Roller - Rear Rod (2), 1973-'84	24366-71	—
	Retainer, Crankpin Roller - Front Rod, 1973-'84	24367-71	—
	Bearing Cage, Set, Connecting Rod, 1.25", Alloy, bt	—	34-4020
	6	Nut, Crankpin (2), 1954-Early '81	23966-54A
Nut, Crankpin (2), Late 81-Early '83		23969-80	—
7	Nut, HH, 1-20 UNEF-3B x .346", Black, Steel, 4140 (2), Late '83-'84	23901-81, 23980-98, 23967-54A, 23969-83	34-2104
	Washer, Flywheel (2), 1941-Early '70	23973-41	—
8	Washer, Flywheel, Thrust, w/ 1.250" Crankpin, 1.415" x 2.329" x .065", Phosphor Bronze (2), Late 70-'84	6506	32-2019
	Key, Crankpin, 1941-Early '81	23985-18	—
9	Key, Woodruff, .125" x .375" x .374" each	11218	50-8222-S
	Key, Woodruff, .125" x .375" x .374", Steel (2), Late '81-'84, 5 Pack		50-1009
	Crankpin, 1941-Early '81 See chart for complete Crankpin Assembly	23961-41	—
10	Crankpin, Late 1981-'84 See chart for complete Crankpin Assembly	23961-80A	—
	Retainer, Crankpin Roller (4), 1951-'72	24366-51	—
11	Bearing, Assembly, Connecting Rod, 1.25", 1941-'99 bt	24346-87A, 24385-40B	34-4010
	Set of Roller and Retainers - 0.0004 O.S., 1941-'84	24387-40B	—
	Set of Roller and Retainers - 0.0006 O.S., 1941-'84	24388-40B	—
	Set of Roller and Retainers - 0.0008 O.S., 1941-'84	24389-40B	—
	Set of Roller and Retainers - 0.0010 O.S., 1941-'84	24390-40B	—
	Set of Roller and Retainers - 0.0002 U.S., 1941-'84	24391-40B	—
12	Roller, Crankpin, 0.188 x 0.329 - Std. (36), 1951-'72	9101A	—
	Roller, Crankpin, - 0.0002 O.S. (36), 1951-'72	9102A	—
	Roller, Crankpin, - 0.0004 O.S. (36), 1951-'72	9103A	—
	Roller, Crankpin, - 0.0006 O.S. (36), 1951-'72	9104A	—
	Roller, Crankpin, - 0.0008 O.S. (36), 1951-'72	9105A	—
	Roller, Crankpin, - 0.0010 O.S. (36), 1951-'72	9106A	—
	Roller, Crankpin, - 0.0002 U.S. (36), 1951-'72	9108A	—
	Roller, Crankpin, 0.188 x 0.662 - Standard (18), 1951-'72	9171A	—
13	Roller, Crankpin, - 0.0002 O.S. (18), 1951-'72	9172A	—
	Roller, Crankpin, - 0.0004 O.S. (18), 1951-'72	9173A	—
	Roller, Crankpin, - 0.0006 O.S. (18), 1951-'72	9174A	—
	Roller, Crankpin, - 0.0008 O.S. (18), 1951-'72	9175A	—
	Roller, Crankpin, - 0.0010 O.S. (18), 1951-'72	9176A	—
	Roller, Crankpin, - 0.0002 U.S. (18), 1951-'72	9179A	—
	Race, Front, Connecting Rod, 1941-'99 bt See chart for Connecting Rod Rebuild Kit	24356-36A	34-4005
	Connecting Rod, Front 1971-'73	24302-36	—
16	Connecting Rod, Rear 1971-'73	24298-36	—
	Race, Rear, Connecting Rod, 1941-'99 bt See chart for Connecting Rod Rebuild Kit	24345-36A	34-4006
18	Bushing, Wristpin, .767" x .895" x 1.077", Bronze, 1941-'99 bt See chart for Connecting Rod Rebuild Kit	24334-36	34-4007
	Bushing, Piston Pin - 0.010 O.S. O.D. (2), 1941-'84	24335-36	—
19	Pinion Shaft, 1958-'72	24006-58	—
	Pinion Shaft, 1973-Early '81 See chart for complete Pinion Shaft Assembly	24006-73	—
	Pinion Shaft, Late 1981-Early '83	24006-80	—
	Pinion Shaft, Late 1983-'84	24006-83	—
20	Key, Pinion Shaft Pinion (2 - 54-Early 75), 1954-'84	23985-54	—
21	Key, Woodruff, .094" x .313" x .311", Steel Late '75-'84	26348-15	50-8220-S
22	Key, Pinion Shaft, 1941-Early '81	23985-12	—
	Key, Woodruff, .125" x .375" x .374", Steel (2), Late 1981-'84 each	11218	50-8222-S
	Key, Woodruff, .125" x .375" x .374", Steel (2), Late 1981-'84 5 Pack		50-1009
23	Screw, No. 10-24 x 3/8 Pozidriv pan hd. (4), 1948-Early '78	2660	—



#	Description	H-D® Part No.	VVT Part No.
24	Flywheel, Right, 1941-'80	23940-41A	—
	Flywheel, Right, 1978-Early '81	23922-78	—
	Flywheel, Right, Late '81-Early '83	23922-80	—
25	Flywheel, Left, 1972-'80	23919-72	—
	Flywheel, Left, 1978-Early '81	23924-78	—
	Flywheel, Left, Late 1981-Early '83	23926-80A	—
26	Nut, Gear and Sprocket Shafts (2 - '41-'71), 1941-Early '81	24023-36	—
	Nut, Sprocket Shaft, 1972-Early '81	24017-72	—
	Nut, Gear Shaft, Late 1981-'84	24016-80	—
	Nut, Sprocket Shaft, Late 81-'84	24017-80	—
27	Nut, Gear and Sprocket Shafts (2 - '41-'71), 1941-Early '81	24023-36	—
	Nut, Sprocket Shaft, 1972-Early '81	24017-72	—
	Nut, Gear Shaft, Late 1981-'84	24016-80	—
28	Key, Sprocket Shaft, 1956-'71	23985-56	—
29	Sprocket Shaft, 1965-'69 <i>See chart for compatible Sprocket Shaft Assembly</i>	24001-65	—
	Sprocket Shaft, 1970 & '71 <i>See chart for compatible Sprocket Shaft Assembly</i>	24001-70	—
	Sprocket Shaft, 1972-Early '81 <i>See chart for compatible Sprocket Shaft Assembly</i>	24001-72	—
	Sprocket Shaft, Late '81-'84 <i>See chart for compatible Sprocket Shaft Assembly</i>	23909-80	—
30	Connecting Rod, Set, Heavy Duty, IBC, .791" WP, 7.440", 1941- E'81 bt	24281-41A, 24281-74A	34-7004
	Connecting Rod, Set, Heavy Duty, IBC, .791" WP, 7.440", L1981-'84 bt	—	34-7011
	Connecting Rod, Set, Heavy Duty, IBC, .792" WP, 7.440", 1984-'99 bt	24281-80, 24281-83	34-7013
31	Flywheel, Special Order, 1936-'99 bt	23906-74, 23906-78G, 23906-87A	32-2015

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
9	Crankpin, Assembly, Tapered, 1.249", 1941-'81 bt, includes retainers and key	34-2003
14, 17, 18	Rebuild Kit, Connecting Rod, Race & Bushing, 1941-'99 bt, includes #18 (2), #17 (2), #14 (1)	34-4040
19	Pinion Shaft, Assembly, Tapered, Standard, 1939-'53 bt, includes keys and nut (Panhead only)	33-2021
	Pinion Shaft, Assembly, Tapered, Standard, 1958-'81 bt, includes keys and nut	33-2024
	Pinion Shaft, Assembly, Tapered, S&S® Flywheels, Standard, L1981-'99 bt	33-2027
	Pinion Shaft, Assembly, Tapered, S&S® Flywheels, +.001", L1981-'99 bt	33-2028
29	Sprocket Shaft, Assembly, 1965-'69 bt	33-2003
	Sprocket Shaft, Assembly, 1970-'99 bt	33-2004

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GENERATOR GEARCOVER FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS (AND KNUCKLEHEAD & PANHEAD)

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1986-2012

Parts for
Shovelheads

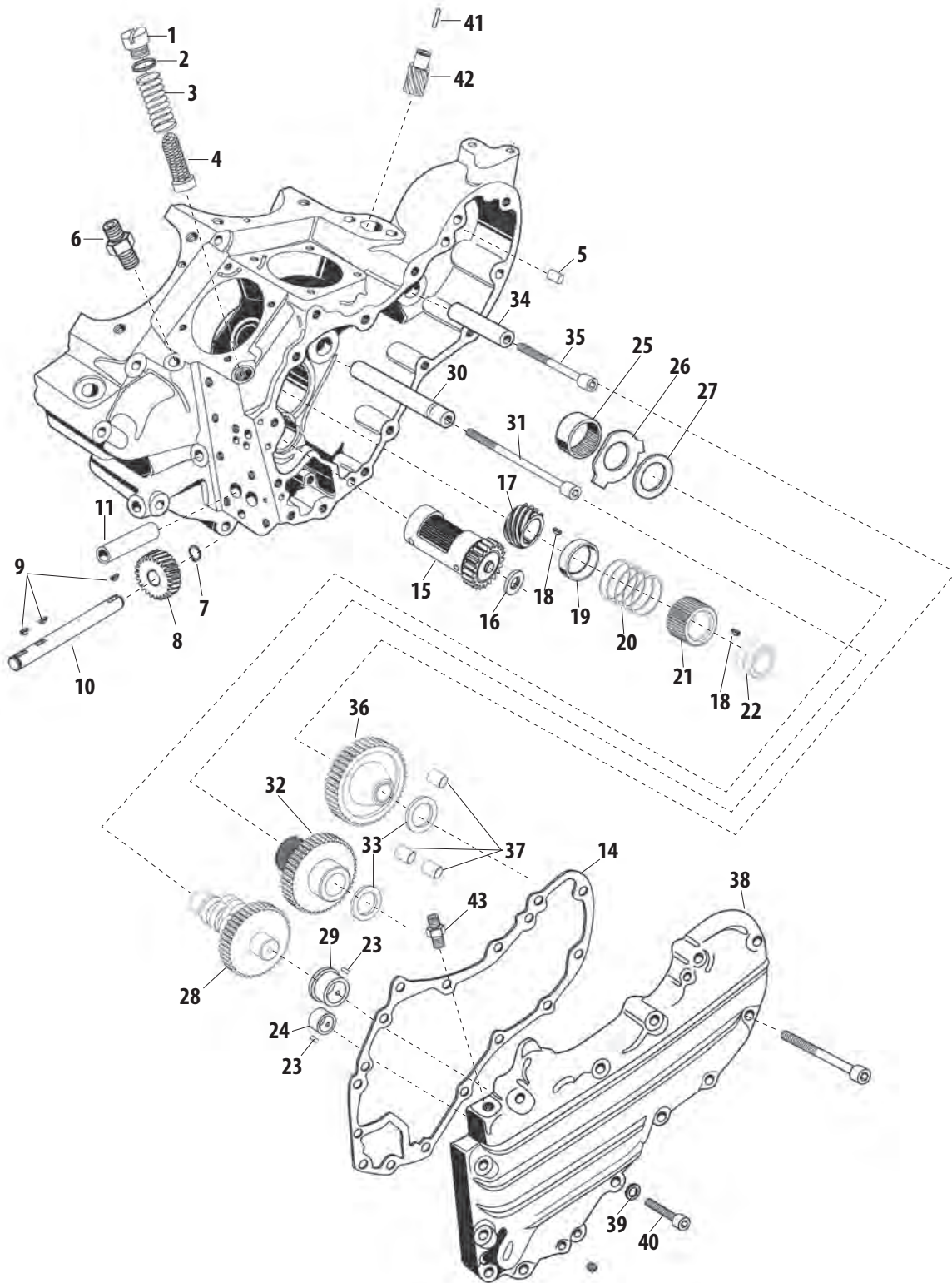
Parts for
Panheads

Parts for
Knuckleheads

Parts for
Flatheads

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Cross Reference

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Plug, Oil Screen, 1948 - '99 S&S bt See chart for compatible Oil Pump Screw	655	26263-80	—
2	Gasket, Oil Screen Plug, L1952 - '69	—	62702-52	—
	O-Ring, Oil Screen Plug, 1948 - '99 S&S Bt See chart for compatible O-Ring	—	11105	—
3	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>each</i>	24982-66	24982-70	31-2011-5
	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>10 Pack</i>	—	—	31-2058
4	Oil Screen, Crankcase, L1952 - '69	24981-66	24981-70	31-2010
5	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1936 - '64	585-30	377	50-8017
	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1965 - '69	—	378	50-8017
6	Fitting, Rocker Arm Oil Line, 1966 - '69	—	63526-57	—
7	Retaining Ring, Oil Pump Drive Shaft, SAE 1060-1090, 1941 - '69	695-36	See	50-8058
8	Drive Gear, Oil Pump - 25 Tooth, 1941 - '69 See chart for compatible 24 Tooth Oil Pump Drive Gear	26345-39	26345-70	—
9	Key, Woodruff, .094" x .313" x .311", Steel, 1936 - '69	634-15	26348-15	50-8220-5
10	Shaft, Drive, Oil Pump, 1936-'67	638-36	26346-36	—
	Shaft, Drive, Oil Pump, .4223" x 4.650", Cold Drawn Steel, AISI 1146, 1968-'99 bt	26346-68	26346-70	31-6011
11	Bushing, Drive Shaft, Oil Pump, Stepped, .424" x .533" x 2.540", Bronze, 1954 - '69	412-36	24641-36	31-4008
12	Breather Screen Separator 1936 - '69 (Not Shown)	585-36A	25279-36	—
13	Breather Screen 1936 - '69 (Not Shown)	585-36	25275-36	—
14	Gasket, Gearcover, 1936-'64 bt	598-36	25225-36A	31-2030
	Gasket, Gearcover, Flathead Power®, 1965-'69	—	25225-36C	106-2072
15	Gear, Breather, High Evacuation, 1936 - '47	504-36	25300-36	106-5070
	Gear, Breather, High Evacuation, +.030", 1936-'47 bt	—	—	106-6012
	Gear, Breather, 1948-E'77 bt See chart for complete Breather Gear Kit	—	25313-73	33-4246
	Gear, Breather, +.030", 1948-E'77 bt	—	—	33-4247
	Gear, Breather, with Gear, L1977 - '99 See chart for complete Breather Gear Kit	25313-77B	25310-82A	33-4241
	Gear, Breather, +.030", with Gear, L1977 - '99	—	—	33-4242
16	Thrust Washer, Breather Valve - 0.115 Thick, 1950 - '69	—	25313-50	—
	Thrust Washer, Breather Valve - 0.120 Thick, 1950 - '69	—	25314-50	—
	Thrust Washer, Breather Valve - 0.125 Thick, 1950 - '69	—	25315-50	—
	Thrust Washer, Breather Valve - 0.110 Thick , 1952 - '69	—	25316-52	—
17	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1954 - '69	26349-54	26349-73	33-4232
18	Key, Gear Shaft (2), 1954 - '69	—	23985-54	—
	Key, Gear Shaft, Woodruff, .094" x .313" x .311", Steel (2), 1954 - '69	—	26348-15	50-8220-5
19	Spacer, Gear Shaft Pinion, 1940 - '53	355-40	24703-40	—
	Spacer, Gear Shaft Pinion, .740" x .900" x .320", Black, Steel, 1954 - '69	—	24703-54	33-4289
20	Spring, Seal Ring	355-37B	24699-37	—
21	Gear, Pinion, Green, 1954 - '69 See chart for Pinion Gear diameter options	—	24010-54	33-4125
22	Nut, Pinion Gear, 5/8-24 UNEF-3B LH x .375", Black, Steel, 4140, 1954 - '69	—	24023-54	33-4244
23	Dowel Pin, 1/8 x 1/4 (2), 1941 - '69	—	275	—
	Dowel Pin, 1/8 X 1/4 (2), 1931 - '49	661-31	271	—
24	Bushing, Gearcover Pinion Shaft, 1954 - '72	—	25582-54A	—
	Bushing, Gearcover Pinion Shaft, 1973 - '92	—	25582-73	—
25	Bushing, Crankcase Cam Gear, 1936 - '57	660-36	25597-36	—
	Bearing, Assembly, Needle, Cam, 1958 - '69	—	9058	31-4009
26	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>each</i>	—	—	33-5201
	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>5 Pack</i>	—	25550-57A	33-5213
	Washer, Cam, Lock, .062", Steel, 1936-'56 OHV bt <i>each</i>	—	—	106-4528
27	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel 1936 - '99 <i>each</i>	664-36	25550-36	33-5200
	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1007
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>each</i>	—	25551-36	33-5202
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1008
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>each</i>	—	25552-36	33-5203
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1009
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel 1936 - '99 <i>each</i>	—	25553-36	33-5204
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1010
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>each</i>	—	25554-36	33-5205
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1011
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>each</i>	—	25555-36	33-5206
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1012
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel, 1936 - '99	—	25556-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .085", Steel, 1936 - '99	—	25557-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel, 1936 - '99	—	25558-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .095", Steel, 1936 - '99	—	25559-79	—



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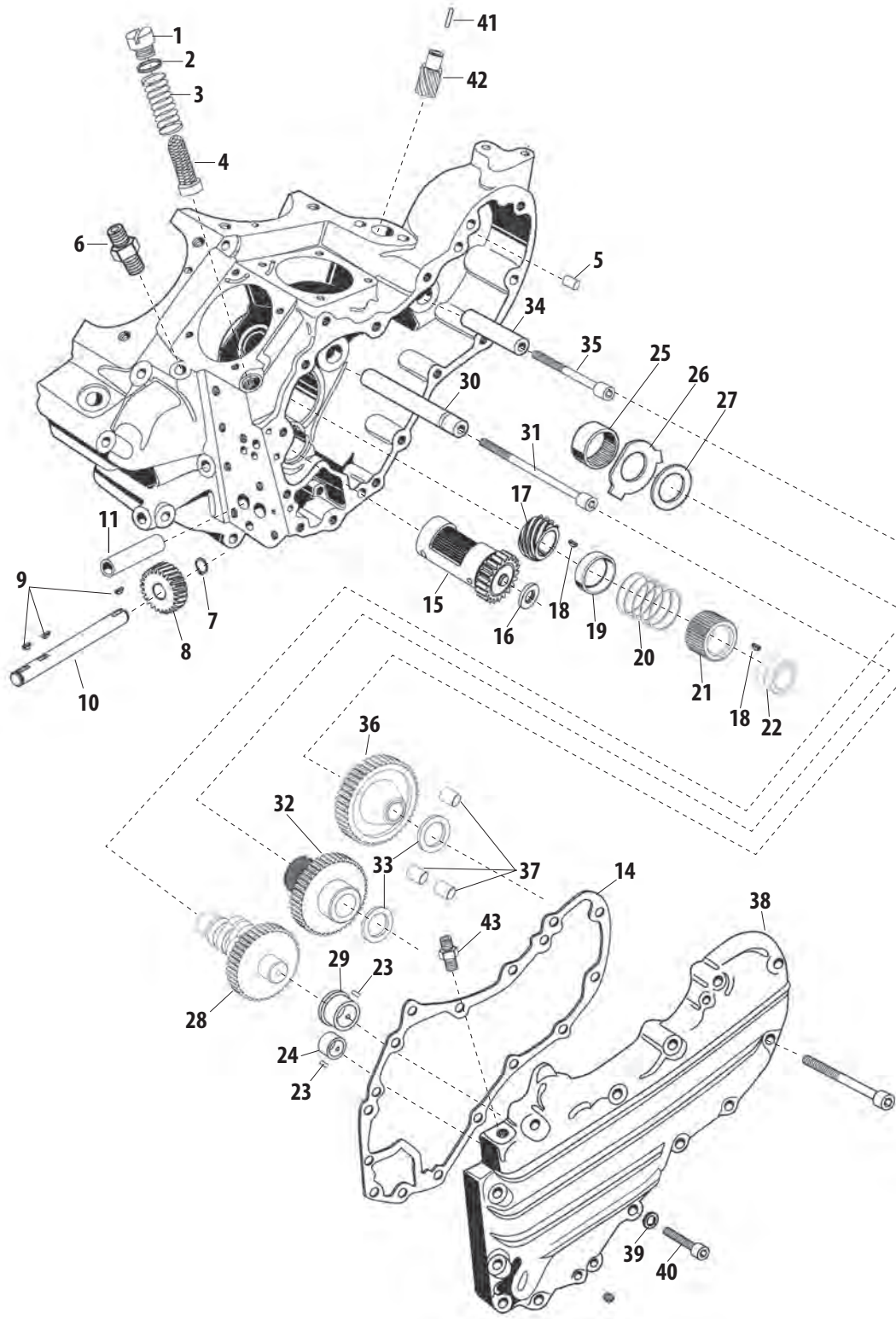
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GENERATOR GEARCOVER REPLACEMENT PARTS FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
28	Cam, 346, 1936 - '47 OHV	614-36	25522-36	106-3676
	Cam, 1948 - '52 61" OHV	614-48A	25524-48	—
	Cam (H-Grind), 1948 - '57 <i>See chart for other Cam options</i>	614-48	25523-48, 25523-56	330-0164
	Cam (H-Grind), 1958-'69 <i>See chart for other Cam options</i>	—	25523-69	330-0170
	Cam (H-Grind), 1970 - '77	—	25523-70	330-0165
	Cam (H-Grind), 1978 - '84	—	25523-78	330-0166
29	Bushing, Cam, Bronze, 1936-'69 bt	661-36	25581-36	31-4025
30	Shaft, Circuit Breaker Drive Gear, 1936-'69 bt, 1936 - '69	—	25856-36	31-2037
31	Screw, Left Hand Thread, Late 1959 - '69	—	1430	—
	Screw, 1936 - E'59	637-36A	25859-36	—
32	Gear, Assembly, Circuit Breaker, Packaged, 1936-'69 bt	—	25850-36A	33-4215
33	Spacer, Idler And Circuit Breaker Gear (2), 1941 - 69 - FL, FLH <i>See chart for Shim size options</i>	—	25800-36	—
34	Shaft, Idler Gear, .5556" x 1.8760", AISA 8620H, 1936-'69 bt	637-36B	25791-36	31-2039
35	Screw, SHCS, 1/4-20 x 2", Zinc, ASTM A574-92A, 1936 - '69	—	25794-36	50-0013
36	Gear, Idler, Packaged, 1936-'69 bt	619-36	25775-36	33-4216
37	Bushing, Idler Gear (3), 1930 - '69	—	25785-30A	—
38	Gearcover, Ribless Notched & Riveted Early 1936	584-36	25216-36	—
	Gearcover, Ribless Rivited Mid 1936	584-36	25216-36	—
	Gearcover, Ribless Late 1936 - '39	584-36	25216-36	—
	Gearcover, 8 Rib Bossless Early & Mid 1940	584-36	25216-36	—
	Gearcover, 8 Rib Late 1940 - E'48 (Includes Hardware)	584-48	25216-48	—
	Gearcover, 8 Rib 1940 - E'48 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	584-48	25216-48	—
	Gearcover, 8 Rib Late 1948 - '53 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	584-48	25216-48	—
	Gearcover, 4 Rib 1954 - '62 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	25216-54	25216-58	—
	Gearcover, 4 Rib Outside Oiler 1963 - '64	—	25216-63	—
	Gearcover, Flat Side, Outside Oiler 1965 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	—	25216-65	—
	Gearcover, Flat Side 1966 - '69 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	—	25216-66	—
39	Washer, 1/4", (12), Early 1936 Only	—	—	—
40	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadium Plated, <i>each</i>	056	2341HW	106-2013
	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadium Plated, <i>12 Pack</i>			106-2087
41	Pin, Roll, Coiled 7/64" diameter, .120" x .500", Steel <i>See chart for 1/8" diameter option</i>	—	255	50-8025
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt <i>See chart for compatible Circuit Breaker Gear</i>	056, 1547-36	32531-36	—
43	Oil Feed Pipe Nipple, 1942-'47 OHV	95-42A	17330-42	106-4734

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>each</i>	31-6021
	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>5 Pack</i>	31-7005
2	O-ring, (-013), .437" ID x .565" OD, Viton®	50-8008
8	Gear, Pinion, Oil Pump Drive, 24 Tooth, 1936-'69 bt	33-4230
	Gear, Kit, Breather, +.030", 1948-E'77 bt	33-4253
15	Gear, Kit, Breather, +.030", 1948-E'77 bt	33-4263
	Gear, Pinion, Orange, 1954-E'77 bt	33-4121
	Gear, Pinion, Black, 1954-E'77 bt	33-4122
	Gear, Pinion, Red, 1954-E'77 bt	33-4123
	Gear, Pinion, Blue, 1954-E'77 bt	33-4124
	Gear, Pinion, White, 1954-E'77 bt	33-4126
	Gear, Pinion, Brown, 1954-E'77 bt	33-4127
	Gear, Pinion, Yellow, 1954-E'77 bt	33-4128
28	Camshaft, 450S, 1948-'69 bt	33-5062
	Camshaft, Assembly, FB300, 1948-'69 bt, Crane Cams®	1-0100
33	Shim, Circuit Breaker/Idler Gear, .050"	33-4221
	Shim, Circuit Breaker/Idler Gear, .054"	33-4222
	Shim, Circuit Breaker/Idler Gear, .058"	33-4223
	Shim, Circuit Breaker/Idler Gear, .062"	33-4224
	Shim, Circuit Breaker/Idler Gear, .066"	33-4225
38	Gearcover, Kit, Generator, KN-Series, Ribbed, Stock Pinion Shaft, Natural, 1940-'47 bt	106-3198
	Gearcover, Kit, Generator, P-Series, Ribbed, Stock Pinion Shaft, Natural, Late 1948-'53 bt	106-3499
	Gearcover, Kit, Generator, Bushing Style, Stock Style Case, Natural, Cast, 1954-'69 bt	31-0240
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1965 bt	106-1619
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1966-'69 bt	106-1625
41	Pin, Roll, 1/8" Diameter, .138" x .500", Steel	50-8030
42	Gear, Circuit Breaker, 1936-'69 bt	33-4217



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1	Plug, Screw, Oil Screen, 1970-'80	657	—
	Plug, Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel, 1981-'84 <i>each</i>	26263-80	31-6021
	Plug, Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel, 1981-'84 <i>5 Pack</i>		31-7005
2	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton®, Late 1970-'84 <i>each</i>	11105	50-8008
	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton®, Late 1970-'84 <i>10 Pack</i>		50-8078
3	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, 1970-'84 <i>each</i>	24982-70	31-2011-5
	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, 1970-'84 <i>10 Pack</i>		31-2058
4	Screen, Crankcase Oil, 1970-'84	24981-70	31-2010
5	Plug, Crankcase, 1970-'84	653	—
6	Stud, Cylinder Base, 7/16-14 UNF, 7/16-20 UNF x 2.3, Black, Steel (8) 1974-'84 <i>each</i>	16837-78	31-2324-5
	Stud, Cylinder Base, 7/16-14 UNF, 7/16-20 UNF x 2.3, Black, Steel (8) 1974-'84 <i>8 Pack</i>		31-2324
7	Fitting, Rocker Arm Oil Line, 1970-'84	63526-57	—
8	Plug, Pipe, 3/4 Taper, 1/8-27 NPTF x .188", Zinc, Steel, Late 1984	45830-48	50-8331
9	Fitting, Crankcase-Air Cleaner Hose, Late 1978-'83	25260-78	—
10	Pin, Dowel, .250" x .500", Steel (2), 1970-'84 <i>each</i>	358	50-8022
	Pin, Dowel, .250" x .500", Steel <i>2 Pack</i>		50-8022-2
11	Retaining Ring, Oil Pump Drive Gear, Carbon Steel, SAE 1060-1090, 1970-'84 <i>each</i>	11002	50-8059
	Retaining Ring, Oil Pump Drive Gear, Carbon Steel, SAE 1060-1090, 1970-'84 <i>10 Pack</i>		50-8107
12	Drive Gear, Oil Pump, 25 Tooth, 1970-'72	26345-39	—
	Drive Gear, Oil Pump, 24 Tooth, 1973-'84	26345-73	33-4230
13	Bushing, Drive Shaft, Oil Pump, Stepped, .424" x .533" x 2.540", Bronze, 1970-'84	24641-36	31-4008
14	Shaft, Drive, Oil Pump, .4223" x 4.650", Cold Drawn Steel, AISI 1146, 1970-'79	26346-70	31-6011
15	Key, Woodruff, .094" x .313" x .311", Steel (2 - Gear Shaft - 75 & Later), 1970-'84 <i>each</i>	26348-15	50-8220-5
	Key, Woodruff, .094" x .313" x .311", Steel, (2 - Gear Shaft - 75 & Later), 1970-'84 <i>10 Pack</i>		50-8229
16	Breather Valve, with Gear, 1970-Early '77	25313-73	33-4246
	Breather Valve, with Gear (Plastic), Late 1977-'84	25313-77B	33-4241
17	Thrust Washer, Breather Valve - 0.100 Thick (Steel), 1970-Early '79 <i>each</i>		33-4200
	Thrust Washer, Breather Valve - 0.100 Thick (Steel), 1970-Early '79 <i>5 Pack</i>		33-1000
	Thrust Washer, Breather Valve - 0.115 Thick, 1970-Early '79	25313-50	—
	Thrust Washer, Breather Valve - 0.120 Thick, 1970-Early '79	25314-50	—
	Thrust Washer, Breather Valve - 0.125 Thick, 1970-Early '79	25315-50	—
	Thrust Washer, Breather Valve - 0.110 Thick, 1970-Early '79	25316-52	—
	Thrust Washer, Breather Valve - 0.110 Thick (Steel), Late 1979-Early '82 <i>each</i>	25320-79	33-4201
	Thrust Washer, Breather Valve - 0.110 Thick (Steel), Late 1979-Early '82 <i>5 Pack</i>		33-1001
	Thrust Washer, Breather Valve - 0.115 Thick (Steel), Late 1979-Early '82	25321-79	—
	Thrust Washer, Breather Valve - 0.120 Thick (Steel), Late 1979-Early '82 <i>each</i>		33-4202
	Thrust Washer, Breather Valve - 0.120 Thick (Steel), Late 1979-Early '82 <i>5 Pack</i>	25322-79	33-1002
	Thrust Washer, Breather Valve - 0.125 Thick (Steel), Late 1979-Early '82	25323-79	—
	Thrust Washer, Breather Valve - 0.130 Thick (Steel), Late 1979-Early '82 <i>each</i>	25325-79	33-4203
	Thrust Washer, Breather Valve - 0.135 Thick (Steel), Late 1979-Early '82	25326-79	—
	Thrust Washer, Breather Valve - 0.140 Thick (Steel), Late 1979-Early '82 <i>each</i>	25327-79	33-4204
	Thrust Washer, Breather Valve - 0.140 Thick (Steel), Late 1979-Early '82 <i>5 Pack</i>		33-1004
	Thrust Washer, Breather Valve - 0.145 Thick (Steel), Late 1979-Early '82	25328-79	—
	Thrust Washer, Breather Valve - 0.130 Thick (Plastic) Late 1982-84	25320-82	—
	Thrust Washer, Breather Valve - 0.135 Thick (Plastic) Late 1982-84	25321-82	—
	Thrust Washer, Breather Valve - 0.140 Thick (Plastic) Late 1982-84	25322-82	—
	Thrust Washer, Breather Valve - 0.145 Thick (Plastic) Late 1982-84	25323-82	—
	Thrust Washer, Breather Valve - 0.150 Thick (Plastic) Late 1982-84	25325-82	—
	Thrust Washer, Breather Valve - 0.155 Thick (Plastic) Late 1982-84	25326-82	—
	Thrust Washer, Breather Valve - 0.160 Thick (Plastic) Late 1982-84	25327-82	—
	Thrust Washer, Breather Valve - 0.165 Thick (Plastic) Late 1982-84	25328-82	—
	Thrust Washer, Breather Valve - 0.170 Thick (Steel) Late 1982-84		33-4207
NOTE: Order plastic washers only with plastic breather valve assemblies. Do not intermix steel and plastic parts.			
18	Key, Gear Shaft (3; 2 - Late 75 & Later), 1970-'84	23985-54	—
19	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1970-'72	26349-54	33-4237
	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1973-'84	26349-73A	33-4232
20	Spacer, Oil Pump Drive Gear, .740" x .900" x .320", Black, Steel, 1970-'84	24703-54B	33-4289
21	Gear, Pinion, Green, 1970-Early 77 - FL, FLH	24010-54	33-4125
	Gear, Pinion, 1.4751-56 Pitch Dia., Orange, L1977-'84 bt	24040-78	33-4141
	Gear, Pinion, 1.4745-51 Pitch Dia., White, L1977-'84 bt	24041-78	33-4142
	Gear, Pinion, 1.4737-45 Pitch Dia., Yellow, L1977-'84 bt	24042-78	33-4143
	Gear, Pinion, 1.4729-37 Pitch Dia., Red, L1977-'84 bt,	24043-78	33-4144
	Gear, Pinion, 1.4721-29 Pitch Dia., Blue, L1977-'84 bt,	24044-78	33-4145
	Gear, Pinion, 1.4715-21 Pitch Dia., Green, L1977-'84 bt	24045-78	33-4146
	Gear, Pinion, 1.4710-15 Pitch Dia., Black, L1977-'83 bt,	24046-78	33-4147



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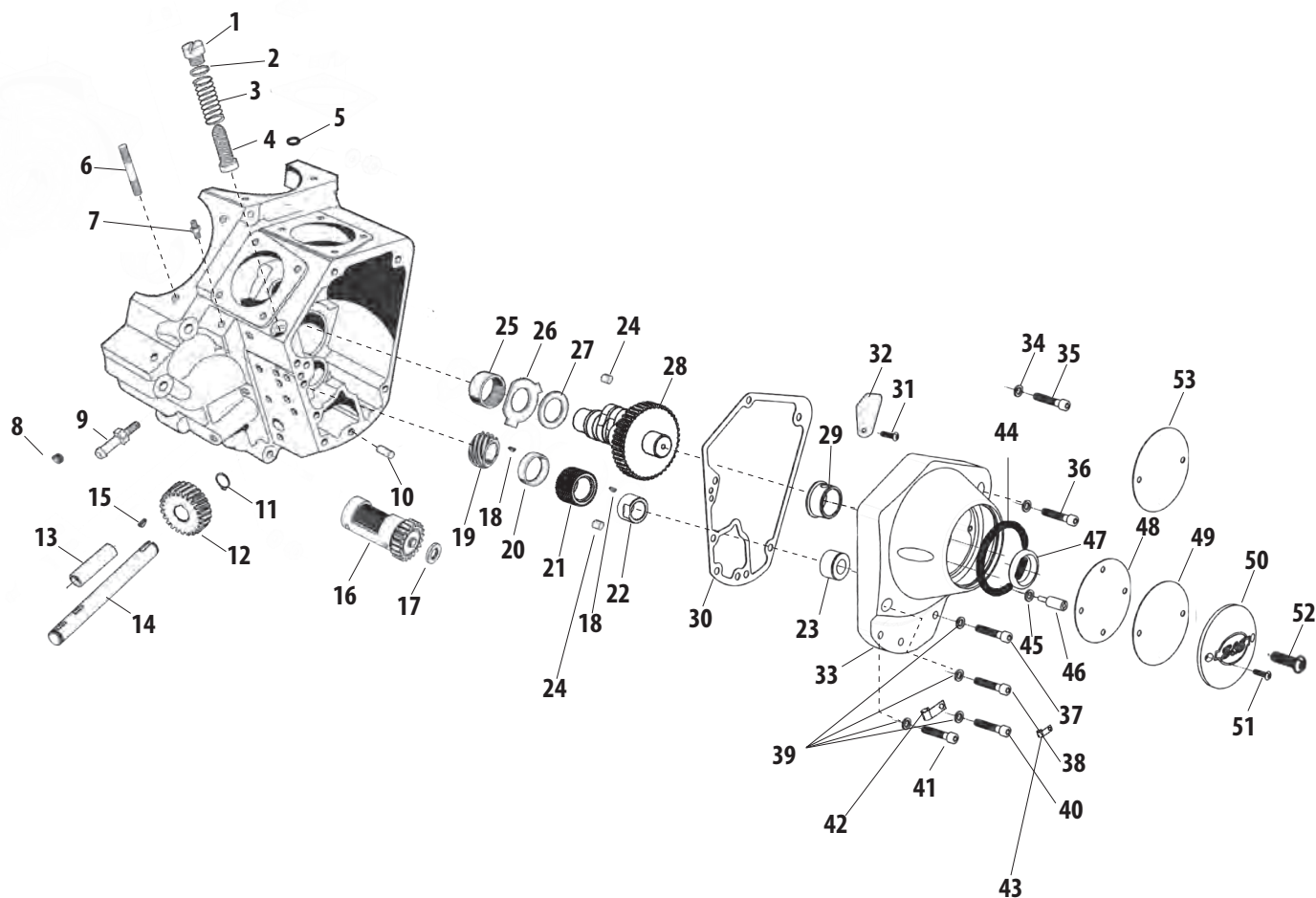
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22	Nut, Pinion Gear, 5/8-24 UNEF-3B LH x .375", Black, Steel, 4140 1970-'84	24023-54	33-4244
23	Bushing, Pinion Shaft, Bronze, 1970-E '73	22582-73, 25582-54A	31-4020
	Bushing, Pinion Shaft, Bronze, Late 1973-'84	25582-73	31-4031
24	Dowel Pin (2 - As Required), 1970-'84	275	—
25	Bearing, Assembly, Needle, Cam, 1970-'84	9058	31-4009
26	Washer, Cam, Lock, .062", Steel, 1970-'84	25550-57A	33-5201
27	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, 1936-'99 <i>each</i>		33-5200
	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, 1936-'99 <i>5 Pack</i>	25550-36	33-1007
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936-'99 <i>each</i>		33-5202
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936-'99 <i>5 Pack</i>	25551-36	33-1008
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936-'99 <i>each</i>		33-5203
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936-'99 <i>5 Pack</i>	25552-36	33-1009
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, 1936-'99 <i>each</i>		33-5204
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, 1936-'99 <i>5 Pack</i>	25553-36	33-1010
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936-'99 <i>each</i>		33-5205
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936-'99 <i>5 Pack</i>	25554-36	33-1011
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936-'99 <i>each</i>		33-5206
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936-'99 <i>5 Pack</i>	25555-36	33-1012
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel, 1936-'99	25556-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .085", Steel, 1936-'99	25557-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel, 1936-'99	25558-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .095", Steel, 1936-'99	25559-79	—

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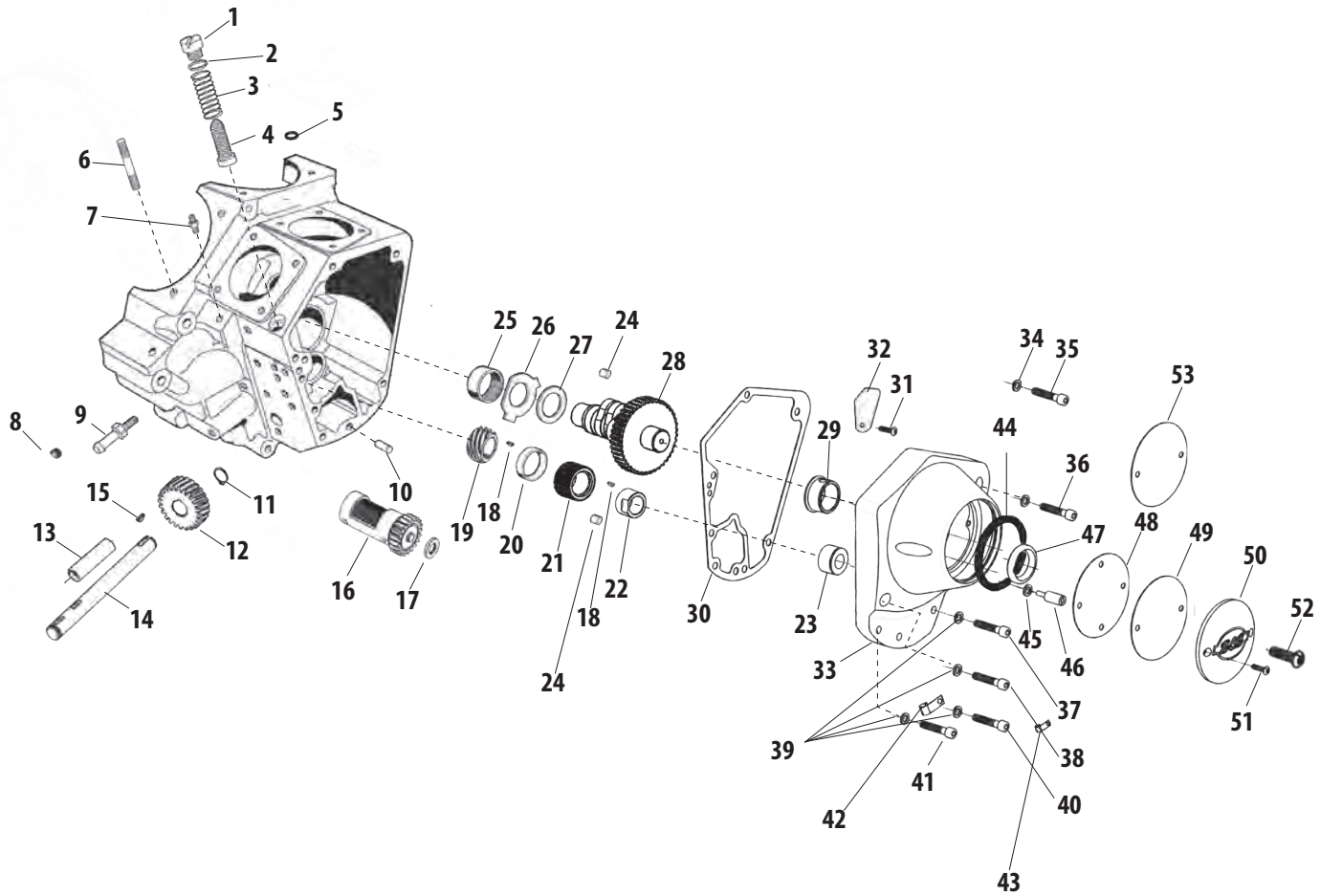
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#	Description	H-D® Part No.	VVT Part No.
28	Cam and Pinion Gear Set, 1970-'84	24582-77A	—
	Cam (H-Grind), 1948 - '57 <i>See chart for other Cam options</i>	25523-48, 25523-56	330-0164
	Cam (H-Grind), 1958-'69 <i>See chart for other Cam options</i>	25523-69	330-0170
	Cam (H-Grind), 1970 - '77	25523-70	330-0165
	Cam (H-Grind), 1978 - '84	25523-78	330-0166
	Cam Gear, 1970 - Early 1977	25523-70	—
	Cam Gear, 2.7324 - 2.7334 (Orange), Late 1977-'84	25527-81A	—
	Cam Gear, 2.7334 - 2.7344 (White), Late 1977-'84	25528-81A	—
	Cam Gear, 2.7344 - 2.7354 (Yellow), Late 1977-'84	25529-81A	—
	Cam Gear, 2.7354 - 2.7364 (Red), Late 1977-'84	25530-81A	—
	Cam Gear, 2.7364 - 2.7374 (Blue), Late 1977-'84	25531-81A	—
	Cam Gear, 2.7374 - 2.7384 (Green), Late 1977-'84	25532-81A	—
	Cam Gear, 2.7384 - 2.7394 (Black), Late 1977-'84	25534-81A	—
29	Bushing, Cam, Bronze, 1970-'84	25581-70	31-4019
30	Gasket, Gearcover, Undersized Profile, 1970-'84	25225-70C, 25257-80	31-2107
31	Screw, No. 10-24 X 1/2 Self Tapping Pan Hd (2), Late 1982-'84	2511	—
32	Cover, Breather Valve, Late 1982-'84	25275-82	—
33	Gearcover Kit, 1973-'84 <i>See chart for complete Gearcover Kits</i>	25216-73B	—
34	Washer, .261" x .474" x .050", Annealed, Stainless Steel Late 1980-'84	6099	50-7020
35	Screw, 1/4-20 x 1-3/4 Pozidriv Til. Hd, 1970-Early 80	1308	—
	Screw, 1/4-20 X 1-3/4 Hex. Socket Hd. (w/ Locking Patch), Late 1980-'84	4810	—
	Screw, SFH, 1/4-20 x 1-3/4", Black, Alloy Steel <i>each</i>	905	50-0334-S
	Screw, SFH, 1/4-20 x 1-3/4", Black, Alloy Steel <i>5 Pack</i>		50-0334
36	Screw, 1/4-20 x 1-1/4 Pozidriv Fil. Hd. (3), 1970-Early '80	1301	—
	Screw, 1/4-20 x 1-3/8 Hex. Socket Hd. (w/ Locking Patch) Late 1980-'84	4813	—
37	Screw, 1/4-20 x 1-1/4 Knurled Socket Hd. (2), 1984-'84	4740	—
	Screw, PH, 1/4-20 x 1", Nickel, Stainless Steel (2), 1970-Early 80	1305	50-0072
	Screw, 1/4-20 x 1-1/8 Hex. Socket Hd. (w/ Locking Patch) (2), Late 1980-'83	4814	—
38	Screw, 1/4-20 x 1-3/4 Pozidriv Til. Hd, 1970-Early 80	1308	—
	Screw, 1/4-20 x 1-3/8 Hex. Socket Hd. (w/ Locking Patch) Late 1980-'84	4813	—
39	Washer, Flat, .281" x .625" x .080", Zinc, Steel, 1980-'84	6703, 6228W	50-7021
40	Screw, 1/4-20 x 1-3/4 Pozidriv Til. Hd, 1970-Early '80	1308	—
	Screw, 1/4-20 x 1-1/4 Hex. Socket Hd. (Self Locking), Late 1980 & Early 1981	2829	—
	Screw, 1/4-20 x 1-3/8 Hex. Socket Hd. (w/ Locking Patch) Late 1980-'84	4813	—
41	Screw, 1/4-20 x 1-1/8 Hex. Socket Hd. (w/ Locking Patch) (2), Late 1980-'83	4814	—
42	Clamp, Electronic Ignition Wire, Late 1981-'84 <i>See chart for compatible Clamp</i>	10046	—
43	Clamp, Electronic Ignition Wire, 1980 & Early '81 <i>See chart for compatible Clamp</i>	9965W	—
	Clamp, Circuit Breaker Wire, 1970-'79 <i>See chart for compatible Clamp</i>	56609-52	—
44	Spacer, Gearcover, 1973-'79	25261-82	—
45	Washer, No. 8 x 7/16 x 3/64 (2), 1970-'82	6192	50-7021
	Washer, Flat, .281" x .625" x .080", Zinc, Steel (2), 1983-'84	6194	50-7021
46	Stud, Ignition Timer Cover (2), Late 1972-'79	32601-78	—
	Stud, Ignition Timer Cover (2), 1980-'84	32606-82	—
	Stud, Ignition Timer Cover (2, Early 1970	32607-70	—
	Stud, Ignition Timer Cover (2), Late 1970-Early '72	32608-70	—
47	Seal, Gearcover Cam, 1" x 1.441" x .250", 1970-up bt - FL, FLH, FLH-80, Classic	83162-51	31-4022
48	Gasket, Ignition Timer Cover, 1970-'79	32591-70	31-0225
	Gasket, Ignition Timer Cover, 1980-'84	32591-80	31-0225
49	Inner Cover, Timer, 1980-'84	32504-80	—
	Cover, Timer, 1970-'79	32588-70A	—
50	Timer Cover, 1983-'84	32521-83	—
51	Pop Rivet, 5/32 x 3/8 x 5/16 Dia. Hd. (2), 1980-'84	8699	—
52	Screw, FHSC, 8-32 x 1/2", Stainless Steel, (2), 1980-'84 <i>each</i>	1601	50-0353-S
	Screw, FHSC, 8-32 x 1/2", Stainless Steel, (2), 1980-'84 <i>10 Pack</i>		106-3456
	Screw, No. 8-32 x 7/16 Pozidriv. Hd. (2), 1972-'79	2622	—
	Screw, No. 8-32 x 7/16 Ctsk. Hd. (2), 1970 & 71	2628	—
53	Timer Cover, Gold Eagle (Accy.), Horiz Holed, Late 1977-'84 <i>See chart for compatible Ignition Cover</i>	32508-77	—
	Timer Cover, "No. 1", Vert Holed, 1980-'82	32511-78	—
	Timer Cover, "No. 1", Horiz Holed, Late 1978 & '79 <i>See chart for compatible Ignition Cover</i>	32503-77	—
	Timer Cover, "No. 1" (Accy.), Horiz Holed, Late 1977-'79 <i>See chart for compatible Ignition Cover</i>	32513-77	—
	Label, "FLH" Timer Cover, 1970-'79	32584-70	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
28	Camshaft, 450S, 1948-'69 bt	33-5062
	Camshaft, Assembly, FB300, 1948-'69 bt, Crane Cams®	1-0100
33	Gearcover, Kit, Alternator, Billet Ignition Cover, Polished, Billet, 1973-'92 bt	31-0335
	Gearcover, Kit, Alternator, Billet Ignition Cover, Chrome, Billet, 1973-'92 bt	106-4211
42, 43	Clamp, Ignition Wire	50-0376-S
53	Ignition Cover, S&S® Logo, Chrome, Billet, 1970-'99 bt	31-0332



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CRANKCASE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS

#	Description	H-D® Part No.	VVT Part No.
1	Bolt, Front Engine Mounting (2), 1941-'72	24791-36	—
	Bolt, 3/8-24 x 2-3/4 Hex. Hd. (2), 1973-'84	4401W	—
2	Washer, 3/8 x 13/16 x 7/64 (4), 1963-'84	6400HB	—
	Set of Crankcases, 1966-'69 See chart for complete Crankcase Assembly	24519-66A	—
3	Set of Crankcases, 1970-'72 See chart for complete Crankcase Assembly	24519-70	—
	Set of Crankcases, 1973-'84 See chart for complete Crankcase Assembly	24519-73H	—
	Set of Crankcases (Black), 1979-'82 (Special Order) See chart for complete Crankcase Assembly	24524-77E	—
	Locknut, 3/8-24 x 7/16 x 9/16 Hex. (4), 1967-'84	7775	—
4	Nut, 3/8-24 x 15/32 x 9/16 Hex. (4), 1941-'66	7809	—
	Cotter Pin, 3/32 x 5/8 (4), 1941-'66	534	—
6	Drain Plug, 1941-'70	700	—
	Plug, Timing Hole, 1941-'69	704	—
7	Plug, Timing, Threaded, 5/8-18 UNF-2A x .545", Zinc, Steel, 1970-'84	720	31-2005
	Washer, 3/8 x 13/16 x 7/64 (4), 1963-'84	6400HB	—
8	Washer, 3/8 x 13/16 x 1/16 (2), 1941-'70	6701	—
	Bolt, 3/8-24 x 3-1/2 Hex. Hd. (2), 1941-'84	4435W	—
10	Nut, 5/16-24 x 1/4 x 1/2 Hex., 1941-Early '81; 1982-'84 (For Screws in Position A-G)	7753	—
	Washer, 11/32 x 11/16 x 1/16 (14), Late 1983-'84 (For Screws in Position A-G)	70907-07, 6016	50-7034
11	Washer, 5/16 x 11/16 x 1/16 (13; 14 - 1980 & Later), 1979-Early '83	6702	50-7034
	Bracket, Clamp, Late 1982-'84	25405-82	—
13	Bolt, 5/16-24 x 5-1/2 Hex. Hd. (3; 5 - Late 1981), 1979-'81 (Position A)	3428	—
	Stud, 5/16-24 x 5-9/16, 1982 & '83 (Position A)	3505	31-2003
14	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel (2; 3 - 1984 & Later), 1982-'84 (Position A)	3506	31-2003
	Clip, Air Cleaner Hose (Breather), Late 1978-Early '81 See chart for compatible Clamp	9979	—
16	Bolt, 5/16-24 x 5-1/2 Hex. Hd. (3; 5 - Late 1981), 1979-'81 (Position B)	3428	—
	Bolt, 5-3/8 Hex. Hd. (2), 1982-'84 (Position B)	3504	—
17	Crankcase Stud (2), 1976-'79 (Position B)	26390-68	—
	Screw, HHC, Gr8, 5/16-24 x 5", Zinc, Steel, 1979-'84 (Position C)	3430	50-0119
19	Crankcase Stud, 5/16-24 x 5, 1941-'78 (Position C)	24805-30	—
	Screw, HHC, Gr8, 5/16-18 x 3-1/2", Zinc, Steel (2), 1979-'84 (Position D & F)	3427	50-0117
21	Bolt, 5/16-24 x 5-1/2 Hex. Hd. (3; 5 - Late 81), 1979-'81 (Position E)	3428	—
	Bolt, 5/16-24 x 1/2 Hex. Hd. (3), 1976-'78 (Position E)	4806	—
22	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel (2; 3 - 84 & Later), 1982-'84 (Position E)	3506	31-2003
	Stud, Crankcase Alignment, 5/16-24 UNF x 6.050", Zinc, Steel(3), 1941-'75 (Position E)	24809-30	31-2034
23	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel (2; 3 - 1984 & Later), 1982-'84 (Position F)	3506	31-2003
	Crankcase Stud, 11/32 x 5-27/32 (2), 1948-'78 (Position F)	24815-40	—
24	Bolt, 5/16-24 x 5-1/2 Hex. Hd. (3; 5 - Late 1981), 1979-'81 (Position G)	3428	—
	Bolt, 5-3/8 Hex. Hd. (2), 1982-'84 (Position G)	3504	—
25	Stud, Crankcase Alignment, 5/16-24 UNF x 6.050", Zinc, Steel(3), 1941-'75 (Position G)	24809-30	31-2034
	Washer, 11/32 x 11/16 x 1/16 (14), Late 1983-'84 (For Screw in Position H)	70907-07, 6016	50-7034
26	Washer, 5/16 x 11/16 x 1/16 (13; 14 - 1980 & Later), 1979-Early '83	6702	50-7034
	Washer, 3/8 x 5/8 x 1/16 (2), Late 1974-'78	6774	—
27	Screw, HHC, Gr8, 5/16-18 x 3-1/2", Zinc, Steel (2), 1979-'84 (Position H)	3427	50-0117
	Bolt, 3/8-16 x 3-1/4 Hex. Hd. (2), 1941-'78	4432W	—
28	Spacer, Sprocket Shaft - 0.336 Thick, 1955-'64	24029-55	—
	Spacer, Sprocket Shaft - 0.06 Thick, 1970-'84	24032-70	—
	Spacer, Sprocket Shaft - 0.09 Thick, 1970-'84	24033-70	—
	Spacer, Sprocket Shaft - 0.12 Thick, 1970-'84	24034-70	—
	Spacer, Sprocket Shaft - 0.15 Thick, 1970-'84	24035-70	—
	Spacer, Sprocket Shaft - 0.18 Thick, 1970-'84	24036-70	—
	Spacer, Sprocket Shaft - 0.21 Thick, 1970-'84	24037-70	—
29	Seal, Left, Main Bearing, 1.750" x 2.507" x .3130", 1970-'84	12026B	31-4010
	Spacer, Sprocket Shaft, 1970-'84	24002-70	31-4011
30	Spacer, Drive Sprocket, 45A Charging System, 1.131" x 1.730" x .325", Fatigue Proof, 1970-'99 bt	24008-97	31-4033
	Bearing, Assembly, Left, Main (Timken®), 1969-'84	9028	31-4013
31	Bearing, Assembly, Left, Main (Timken®), 1955-'68	9029	—

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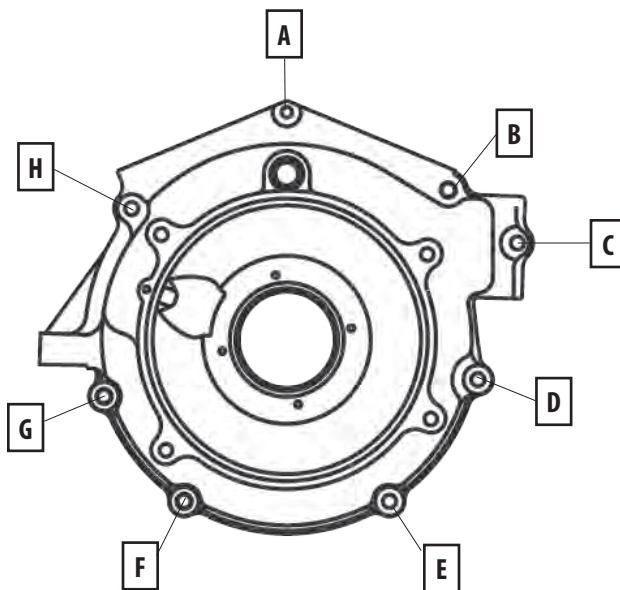
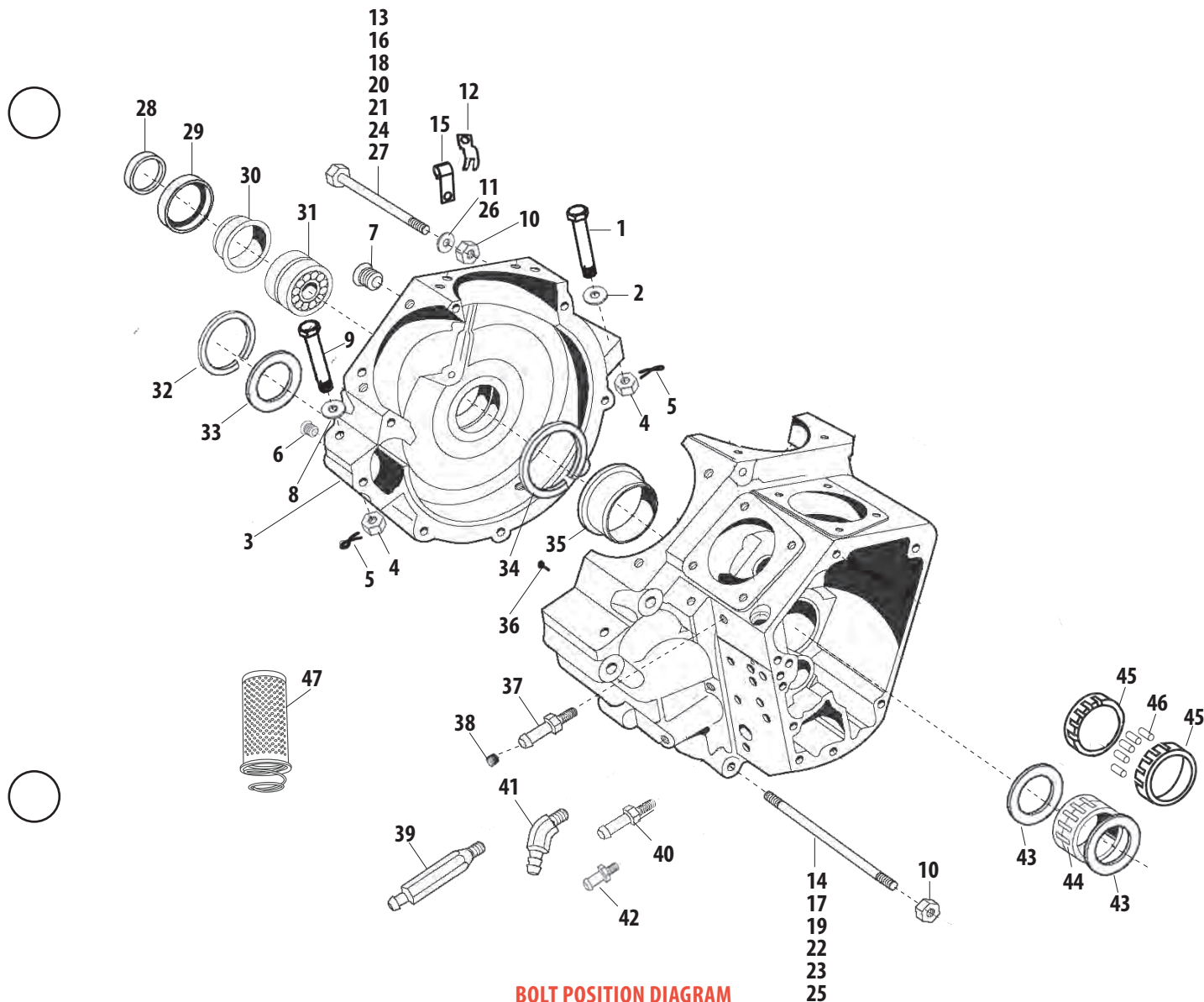
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#	Description	H-D® Part No.	VVT Part No.
32	Snap Ring, Bearing, Late 1983-'84	11160	—
33	Shim, Sprocket Shaft Bearing - 0.003, 1955-'68	23741-55	—
	Shim, Bearing Assembly, 0.0925-.0915, 1969-'84	9120	—
	Shim, Bearing Assembly, 0.0945-.0935, 1969-'84	9121	—
	Shim, Bearing Assembly, 0.0965-.0955, 1969-'84	9122	—
	Shim, Bearing Assembly, 0.0985-.0975, 1969-'84	9123	—
	Shim, Bearing Assembly, 0.1005-.0995, 1969-'84	9124	31-4071
	Shim, Bearing Assembly, 0.1025-.1015, 1969-'84	9125	31-4072
	Shim, Bearing Assembly, 0.1045-.1035, 1969-'84	9126	31-4073
	Shim, Bearing Assembly, 0.1065-.1055, 1969-'84	9127	31-4074
	Shim, Bearing Assembly, 0.1085-.1075, 1969-'84	9128	31-4075
	Shim, Bearing Assembly, 0.1105-.1095, 1969-'84	9129	—
	Shim, Bearing Assembly, 0.1125-.1115, 1969-'84	9130	—
	Shim, Bearing Assembly, 0.1145-.1135, 1969-'84	9131	—
	Shim, Bearing Assembly, 0.1165-.1155, 1969-'84	9132	—
	Shim, Bearing Assembly, 0.1185-.1175, 1969-'84	9133	—
	Shim, Bearing Assembly, 0.1205-.1195, 1969-'84	9134	31-4076
34	Retaining Ring, Right Bearing, 1958-'84	11007	—
35	Bushing, Right Crankcase, Standard, 1958-'84	24599-58A	31-4004
	Bushing, Right Crankcase, +.002 O.S. O.D., 1958-'84	24600-58A	—
	Bushing, Right Crankcase, +.005 O.S. O.D., 1958-'84	24601-58B	31-4007
36	Screw, Crankcase Gear Side Bushing (2), 1954-'78	24608-54	—
37	Fitting, Pipe, Straight, 9/16-24 UNEF-2A x 1/8-27 NPT, Zinc, Brass, 1941-'64	63533-15	31-2018
38	Plug, Oil Pump Vent - Use W/24519-73D & 24524-77D Cases w/1980 & Earlier Pump, 1970-'80	723	—
39	Fitting, Pipe, Straight, 1/8-27 NPT x .420" x 3.110", Zinc, Steel, 1965 & '79-'84	63533-41A, 63533-65	31-2019
40	Fitting, Vent Hose, 1965 & Early '66; Late 1976-'78	63578-52	—
41	Tee, Rear Chain Oiler, 1970-'79	63541-70	—
42	Fitting, Vent Hose, Late 1966-'84	63533-41	—
43	Washer, Right Bearing (2) 1958-'84	24692-58	—
44	Right Bearing, Standard 1958-'81	24650-58	—
	Right Bearing, +.0001 O.S. 1958-'84	24650-81	—
	Right Bearing, +.0002 O.S. 1958-'84	24651-58	—
	Right Bearing, +.0003 O.S. 1958-'84	24649-81	—
	Right Bearing, +.0004 O.S. 1958-'84	24652-58	—
	Right Bearing, +.0005 O.S. 1958-'84	24645-81	—
	Right Bearing, +.0006 O.S. 1958-'84	24653-58	—
	Right Bearing, +.0008 O.S. 1958-'84	24654-58	—
	Right Bearing, +.0010 O.S. 1958-'84	24655-58	—
45	Retainer, Right Roller Bearing (2) 1958-'84	43578-35	—
46	Roller, Right Bearing, 0.250 x 0.490 Lg. - Standard (28) 1958-'81	9220A	—
	Roller, Right Bearing, +.0001 O.S. (28) 1958-'84	9219	—
	Roller, Right Bearing, +.0002 O.S. (28) 1958-'84	9221A	—
	Roller, Right Bearing, +.0003 O.S. (28) 1958-'84	9218	—
	Roller, Right Bearing, +.0004 O.S. (28) 1958-'84	9222A	—
	Roller, Right Bearing, +.0005 O.S. (28) 1958-'84	9217	—
	Roller, Right Bearing, +.0006 O.S. (28) 1958-'84	9223A	—
	Roller, Right Bearing, +.0008 O.S. (28) 1958-'84	9224A	—
	Roller, Right Bearing, +.0010 O.S. (28) 1958-'84	9225A	—
47	Filter, Oil, Perf-form®, Drop In, 1958-E82 bt, 1953-'73 xl S&S K Model	63799-65A	310-0284

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
3	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1965-'69	31-0010
	Crankcase, Assembly, Stock Bore, bt, Alternator, Natural, 1970-'84	31-0003
	Crankcase, Assembly, Special Order, bt, Alternator, 1970-'99	31-0002
15	Clamp, Ignition Wire	50-0376-5



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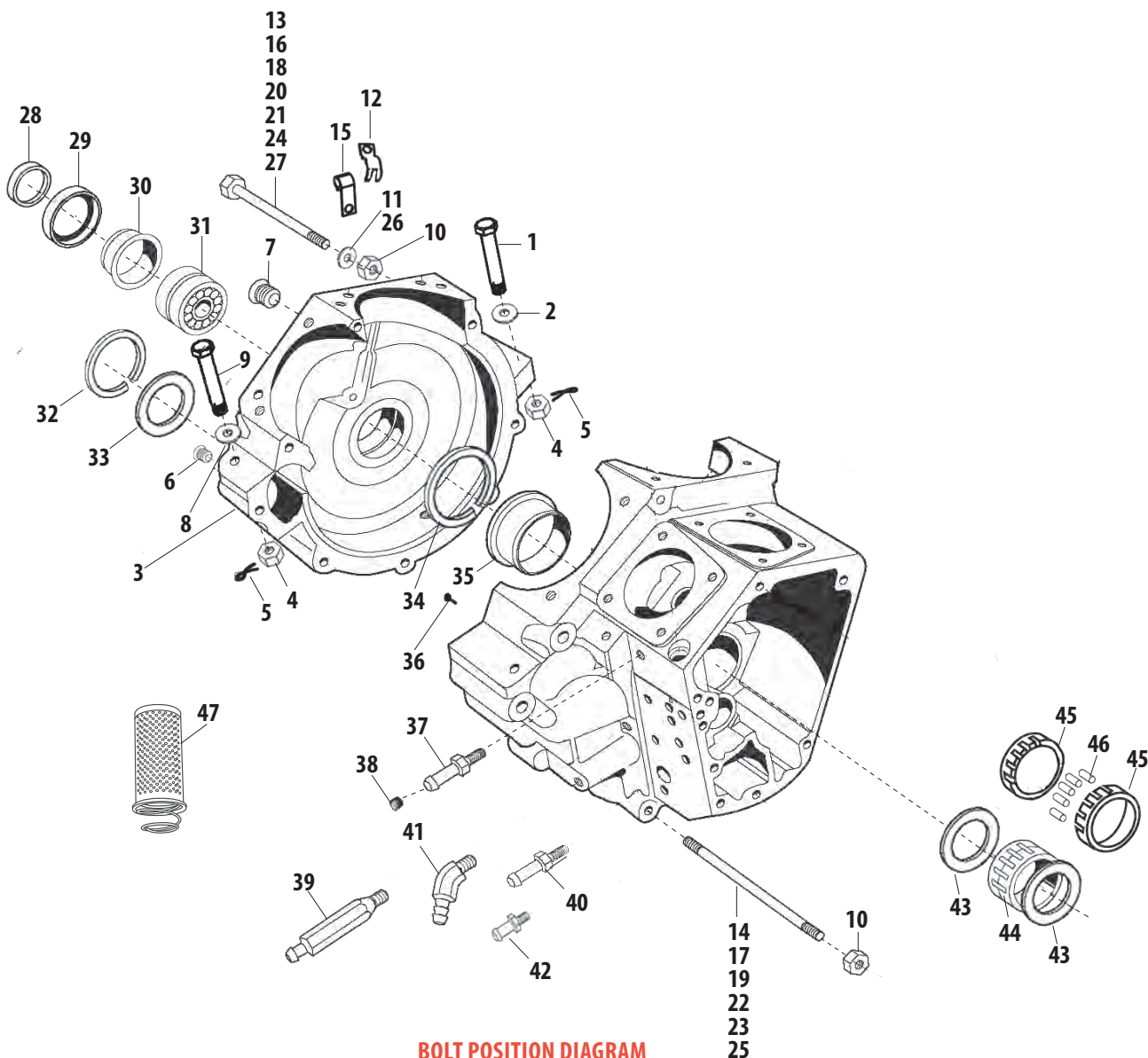
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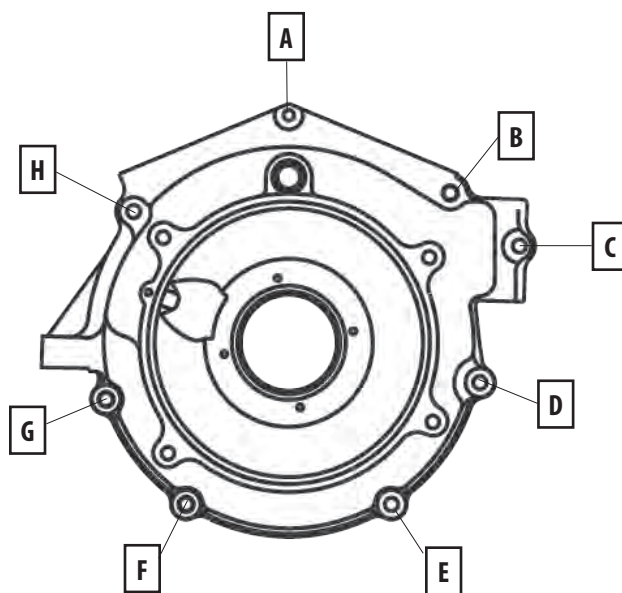
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1	Intake Manifold (O-ring style) 1955 - '65 bt (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	—	—
	Intake Manifold (O-ring style) 1966 - '77 bt (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	27021-71A	—
	Intake Manifold (O-ring style with VOES) 1966 - '77 bt (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	—	—
	Intake Manifold (Band style) 1978 - '84 bt (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	27021-78	—
	Intake Manifold (Band style with VOES) 1983 - '85, 900cc & 1000cc Ironhead xl (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	—	—
	Intake Manifold (Band style) 1979 - '82, 900cc & 1000cc Ironhead xl (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	27021-78	—
	Intake Manifold (O-ring style) 1957 - '82, 900cc & 1000cc Ironhead xl (S&S A, B, E, Tillotson, Bendix & Keihin) <i>See chart for compatible Manifold</i>	27021-57	—
2	Seal, Manifold, Band Style, 2.010" x 2.315" x .7870", Buna, 1979-'84 bt, 1979-'85 xl <i>each</i>	27062-78	16-0238
	Seal, Manifold, Band Style, 1979-'84 bt, 1979-'85 xl, 10 Pack		16-0245
	O-ring, Manifold, 1955-'78 bt, 1957-'78 xl <i>each</i>	27060-55	50-8046
	O-ring, Manifold, 1955-'78 bt, 1957-'78 xl, 10 pack		50-8132
3	Screw, #10-24 x 1-1/4" pozidrive fillister head (Not Shown)	930	—
4	Nut, #10-24 x 1/8" x 5/16" hex (Not Shown)	7504	—
	Nut, #10-24 x 1/8" x 3/8" hex (Not Shown)	7620W	—
5	Clamp, Manifold, O-ring Style <i>S&S Clamp includes a screw and nut</i>	27063-57	16-0230
	Clamp, Manifold, Band Style <i>S&S Clamp includes a screw and nut</i>	27063-78, 27063-80	16-0231

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Manifold, O-ring Style, 1-7/8", #0, Natural, 1955-'65 bt	16-1100
	Manifold, O-ring Style, 1-7/8", #4, Natural, 1955-'65 bt	16-1101
	Manifold, O-ring Style, 1-7/8", #220, Natural, 1957-'78 bt, xl	16-1200
	Manifold, O-ring Style, 1-7/8", VOES, #220, Natural, 1957-'78 bt, xl	16-1230
	Manifold, Band Style, 1-7/8", #220, Natural, 1979-'84 bt, xl	16-1300
	Manifold, Band, 1-7/8", VOES, #220, Natural, 1983-'85 xl	16-1400



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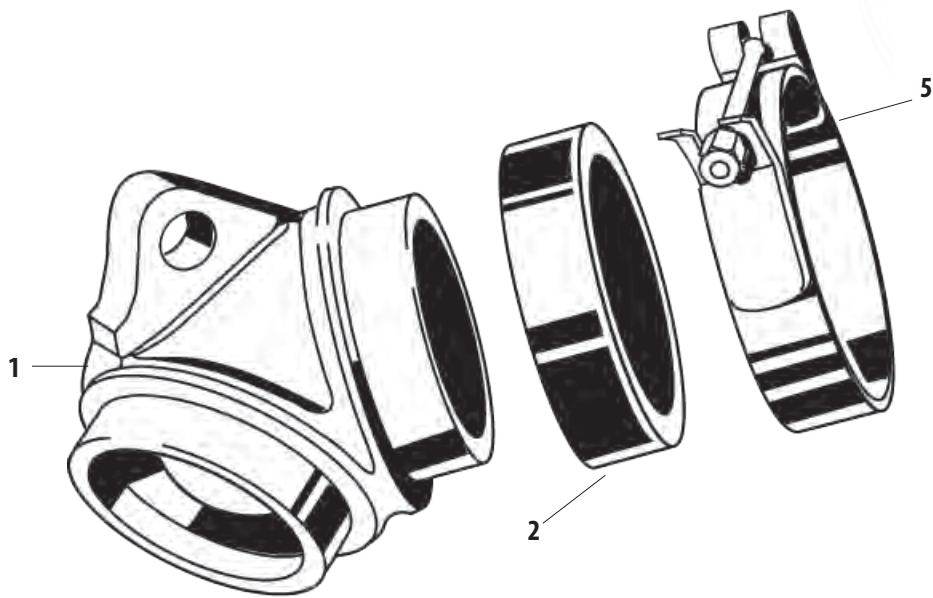
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OIL PUMP REPLACEMENT PARTS FOR HARLEY-DAVIDSON® SHOVELHEAD MODELS (AND PANHEAD)

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Wire Terminal, Female Spade Type, 1/4 Slot, 14-18 Wire, 1941 - '81	—	9914	—
2	Nut, No. 10-32 x 1/8 x 5/16 Hex. (Brass), 1964 - '84	—	7634	—
3	Lockwasher, #10, 1964 - '84	—	7069	—
4	Oil Pressure Switch Only, 1941 - '84	—	26552-72	—
	Oil Pressure Switch, 1984 - '99	—	26561-84	31-2016
5	Elbow, Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel 1968 - '84 <i>each</i>	—		106-2682
	Elbow, Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel 1968 - '84 <i>2 Pack</i>	—	26338-68A	50-8280
	Elbow, Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel 1968 - '84 <i>5 Pack</i>	—		50-1007
6	Fitting, Hose, Straight, 1/8-27 Nptf x .500", Zinc, Steel 1968 - '84	—	63533-41A	50-8115
7	Tube, Cover - Upper (Bent), Late 1978 - '84	—	26247-78	—
8	Tube, Pump & Cover, 1968 - Early '83	—	26265-68A	—
9	Washer, 1/4 x 5/8 x 1/16, Late 1980 - '84 <i>each</i>	—	6194, 6245, 6703,	50-7021
	Washer, 1/4 x 5/8 x 1/16, Late 1980 - '84 <i>10 Pack</i>	—	6736, 6228W)	50-7074
10	Bolt, 1/4-20 x 2-3/4 Hex. Hd., 1979 - '84	—	3429	—
	Bolt, 1/4-24 x 2-3/4 Hex. Hd., 1968 - '78	—	5430W	—
11	Lockwasher, 1/4, 1936 - '84	0256, 362	7035, 7036	50-7019
12	Adjusting Screw, Chain Oiler (Hex. Hd.) 1941 - '64; 1968 - Early '72	—	63610-70	31-6026
	Adjusting Screw, Chain Oiler (Slot Hd.) Late 1972 - Early '83	—	63614-72	31-6026
13	Nut, #10-32 x 1/8 x 3/8 Hex. Hd., 1941 - '64; 1968 & '69	—	7638	50-5000
14	Washer, 13/64 x 3/8 x 1/32 (Brass) 1933 - '69	0202	6150, 6156	50-7008
15	Cover, Oil Pump, 1950 - '64	—	26237-50	—
	Cover, Oil Pump, 1965 - '67	—	UNKNOWN	—
	Cover, Oil Pump, Late 1982 - Early '84	—	26234-82	—
	Cover, Oil Pump, Late 1982	—	26239-82	—
	Cover Assembly, Oil Pump, Late 1984	—	26278-84	—
16	Gasket, Oil Pump Cover, 1950 - '67	—	26257-50A	—
	Gasket, Oil Pump Cover, 1968	—	26258-68B	—
	Gasket, Oil Pump Cover (Paper), Late 1980 - '84	—	26276-80A	—
17	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>each</i>	695-36	26348-36	50-8058
	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>10 Pack</i>	—		50-8106
18	Drive Gear, 1936 - '84 ('36-'67 Scavenge, '68-'84 Feed)	—	26328-74	31-6015
19	Idler Shaft, 1941 - Mid '62	697-41	26328-41	—
	Idler Shaft, Late 1962 - '67	—	26327-52	—
	Idler Shaft, .4243" x 1.3350", Cold Drawn Steel, Aisa 1215, 1968 - '84	—	26327-68	31-6004
20	Scavenger Pump Idler Gear, 1941 - Mid '62 (23/64" Id) (Notch & Rotor Slot-Retrofit - '36)	691-49	26325-49	—
	Idler Gear, Late 1962 - '84 (7/16" Id) (L'62-'67 Scavenge, '68-'99 Feed)	—	26326-62A	31-6016
21	Oil Seal, 1968 - '84	—	26227-58	31-6005
22	Washer, 3/8 x 5/8 x 1/32, Late 1950 - '84	—	6377	—
23	Plug, Oil Pump Body, 1968 - '84	—	700	—
24	Bolt, 1/4-20 x 1-1/2 Hex. Hd., Zinc, Steel, 1979 - '84	—	2872W	50-0080
25	Nut, 1/4-24 x 5/32 x 5/16 Hex., 1950 - '79	—	7691W	—
26	Body, Oil Pump, 1950 - Mid '54 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, Late 1954 - Mid '62 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, Late 1962 - '64 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, 1965 - '67 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump 1968 - '72 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump 1973 - '84 (No Service PN, See Pump Assembly PN)	—	—	—
27	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>each</i>	701-36	26362-36, 26263-80	31-6021
	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>5 Pack</i>	—		31-7005
	Screw, Bypass & Check Valve Cover, Late 1952 - Mid '54	—	26423-52A	—
28	O-Ring, Check Valve Cover Screw, Late 1978 - '84 <i>each</i>	—	11105, 11273	50-8008
	O-Ring, Check Valve Cover Screw, Late 1978 - '84 <i>10 Pack</i>	—		50-8078
29	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>each</i>	703-36	26363-36, 26363-56,	31-6022
	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>10 Pack</i>	—	26262-80	31-6092
30	Ball, Check Valve, .375", Stainless Steel 1936 - '84	283	8866, 8873	50-8091

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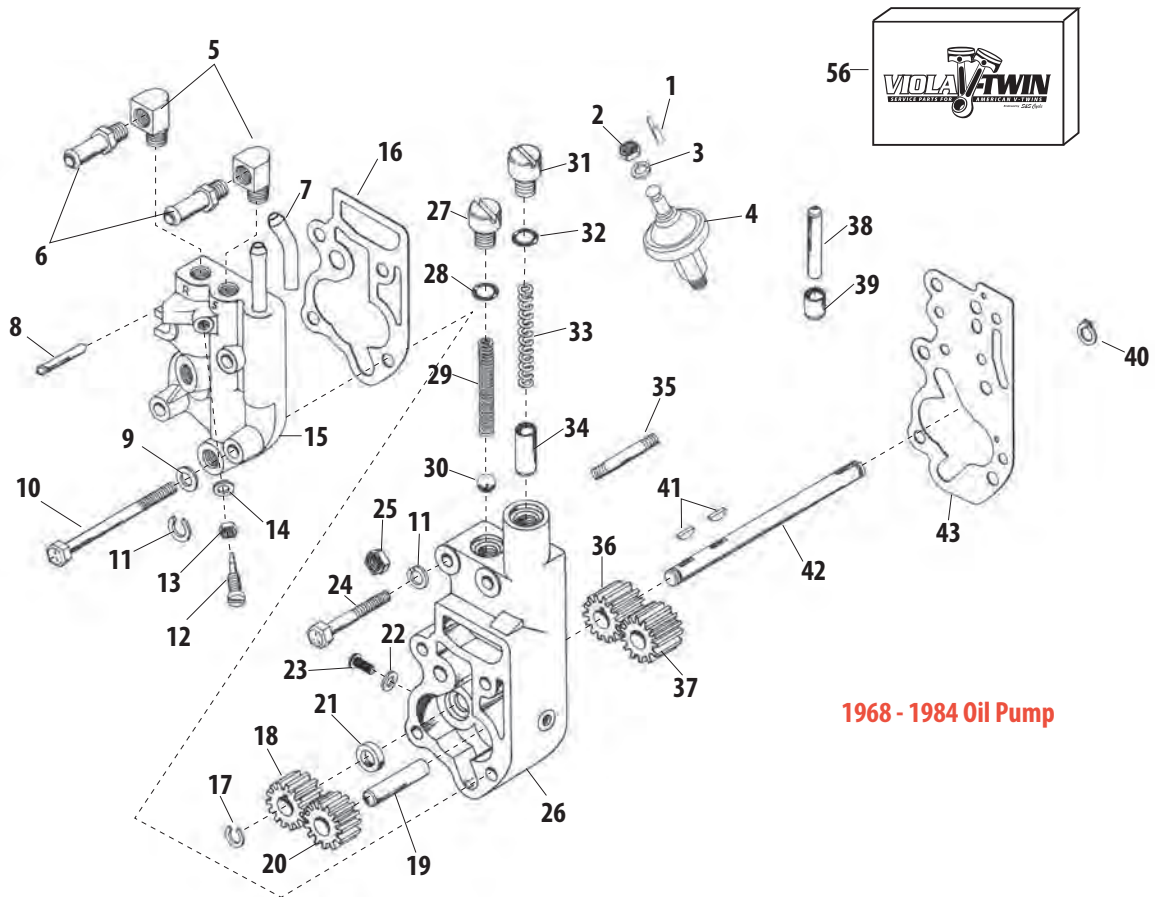
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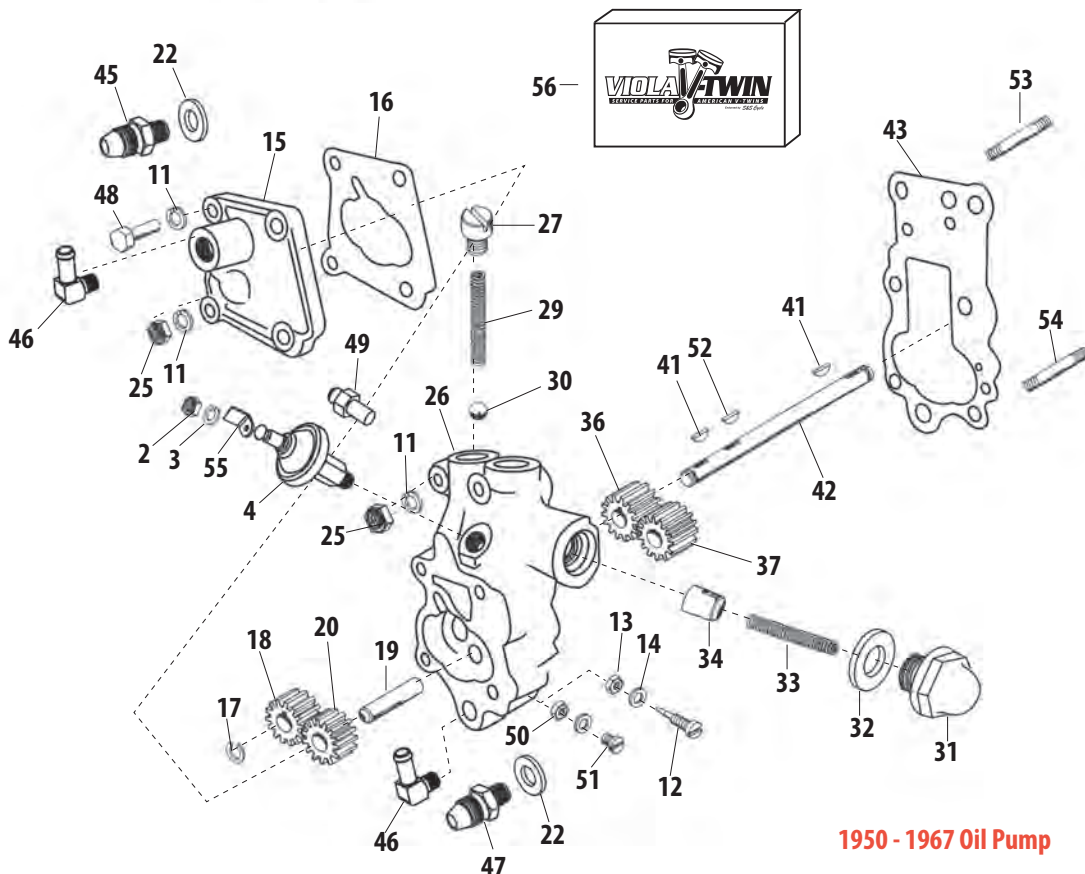
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1968 - 1984 Oil Pump



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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
31	Screw, Bypass & Check Valve Cover, Late 1952 - Mid '54	—	26423-52A	—
	Screw, Bypass Cover, 1936 - Mid '52 & Late '54 - '67	707-36	26367-36	—
	Plug, Relief Valve, 1968 - '80	—	26377-68	—
	Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1981 - '84 <i>each</i>	—	—	31-6021
	Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1981 - '84 <i>10 Pack</i>	—	26263-80	31-7005
32	Washer, 17/32 x 15/16 x 1/64 (Brass) 1954 - '78	—	6581	—
	Washer, Relief Valve Plug (Felt) 1954 - '80	—	26231-78	—
	O-Ring, Check Valve Cover Screw, (-013), .437" ID x .565" OD, Viton® Late 1978 - '84 <i>each</i>	—	11105, 11273	50-8008
	O-Ring, Check Valve Cover Screw, (-013), .437" ID x .565" OD, Viton® Late 1978 - '84 <i>10 Pack</i>	—	—	50-8078
33	Spring, Relief Valve, .040" Wire, .242" x .324" x 2.32", Astm A-229, 1936 - '84	713-36, 713-42	26374-42, 26374-54, 26207-83	31-6018
34	Valve, Oil Pump, Late 1954 - Early '82	—	26400-54	—
	Valve, Oil Pump, Late 1982 - '99	—	26400-82B	31-6082
35	Mounting Stud, Oil Pump, 1968 - '79	—	26390-68	—
36	Drive Gear, 1948 - '67 (.990 OD x 7/16" ID x .380 Wide)	688-48	26315-48	—
	Drive Gear, 1968 - '84	—	26315-68A	31-6013
37	Idler Gear, 1948 - '61 (.990 OD x 23/64" ID x .380 Wide) (w/Crankcase Stub)	689-48	26317-48	—
	Idler Gear, 1962 - '67 (.990 OD x 7/16" ID x .380 Wide) (w/o Crankcase Stub)	—	26317-62	—
	Idler Gear, 1968 - '84	—	26317-68A	31-6014
38	Dowel Pin, 1980 - Early '82	—	223	—
39	Valve, Oil Pump, Late 1954 - Early '82	—	26400-54	—
40	Retaining Ring, Oil Pump, 1970 - '84 <i>each</i>	—	—	50-8059
	Retaining Ring, Oil Pump, 1970 - '84 <i>10 Pack</i>	—	11002	50-8107
41	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>each</i>	634-15	26347-15, 26348-15	50-8220-5
	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>10 Pack</i>	—	—	50-8229
42	Drive Shaft, 1936 - '67	638-36	26346-36	—
	Drive Shaft, Oil Pump, .4223" x 4.650", Cold Drawn Steel, Aisi 1146, 1970 - '84	—	26346-70	31-6011
43	Gasket, Oil Pump Body, 1941 - '67	589-41	26245-41	—
	Gasket, Oil Pump Body, 1968 - Early '80	—	26246-68A	—
	Gasket, Oil Pump Body (Paper), Late 1980 - '84	—	26273-80B	—
44	Oil Pump Assembly, 1950 - Mid '54 (Non-Rotor Cover) <i>See chart complete Billet Oil Pump Kit</i>	587-50	26201-48	—
	Oil Pump Assembly, Late 1954 - Mid '62 <i>See chart complete Billet Oil Pump Kit</i>	587-50	26201-48A	—
	Oil Pump Assembly, Late 1954 - Mid '62 (Pressure Switch Changes) <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48B	—
	Oil Pump Assembly, Late 1954 - Mid '62 (Pressure Switch Changes) <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48C	—
	Oil Pump Assembly, Late 1962 - '64 <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48D	—
	Oil Pump Assembly, 1965 - '67 <i>See chart complete Billet Oil Pump Kit</i>	—	26201-65	—
	Oil Pump Assembly, 1968 - '72 <i>See chart complete Billet Oil Pump Kit</i>	—	26200-68B	—
	Oil Pump Assembly, 1973 - '84 <i>See chart complete Billet Oil Pump Kit</i>	—	26190-73	—
45	Fitting, Pump Cover, 1950 - '64	—	26424-50	—
46	Fitting, Oil Line Hose, 1965 - '67	—	63540-62	—
47	Fitting, Oil Line (Short), 1948 - '64	3577-15	63533-15	—
48	Oil Pump Mounting Stud Nut, 1941 - '49	591-41A	24831-41	—
49	Fitting, Oil Pressure Switch, 1958 - '67	—	26569-58	—
50	Locknut, No. 10-32 x 3/16 x 3/8 Hex., 1941 - '67	—	7626W	—
51	Screw, No. 10-32 x 5/16 Phillips Hd, 1965 - '67	—	1183	—
52	Key, Oil Pump Gear, 1936 - '67	693-36	26340-36	—
53	Mounting Stud, 1-11/16, 1941 - '67	591-36	24819-36	—
54	Mounting Stud, 2-1/4, 1941 - '67	591-36A	24820-36	—
55	Terminal, Oil Pressure Switch, Late 63 - 67	—	26560-63	—
56	Hardware Kit, Oil Pump Cover, Billet, 1936-'91 bt	—	—	31-6283
	Hardware Kit, Chain Oiler, 1936-'91 bt	—	—	31-6291
	Hardware Kit, Oil Pump Mounting, Billet, 1936-Up bt	—	—	31-6288

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
44	Oil Pump, Kit, Universal, Silver Powdercoat, Billet, 1936-'69 bt	106-4688
	Oil Pump, Kit, Universal, Polished, Billet, 1936-'69 bt	31-6200
	Oil Pump, Kit, Universal, Polished, Billet, 1970-'91 bt ('73-E'81 req case mod - drill jig 53-0013)	31-6203

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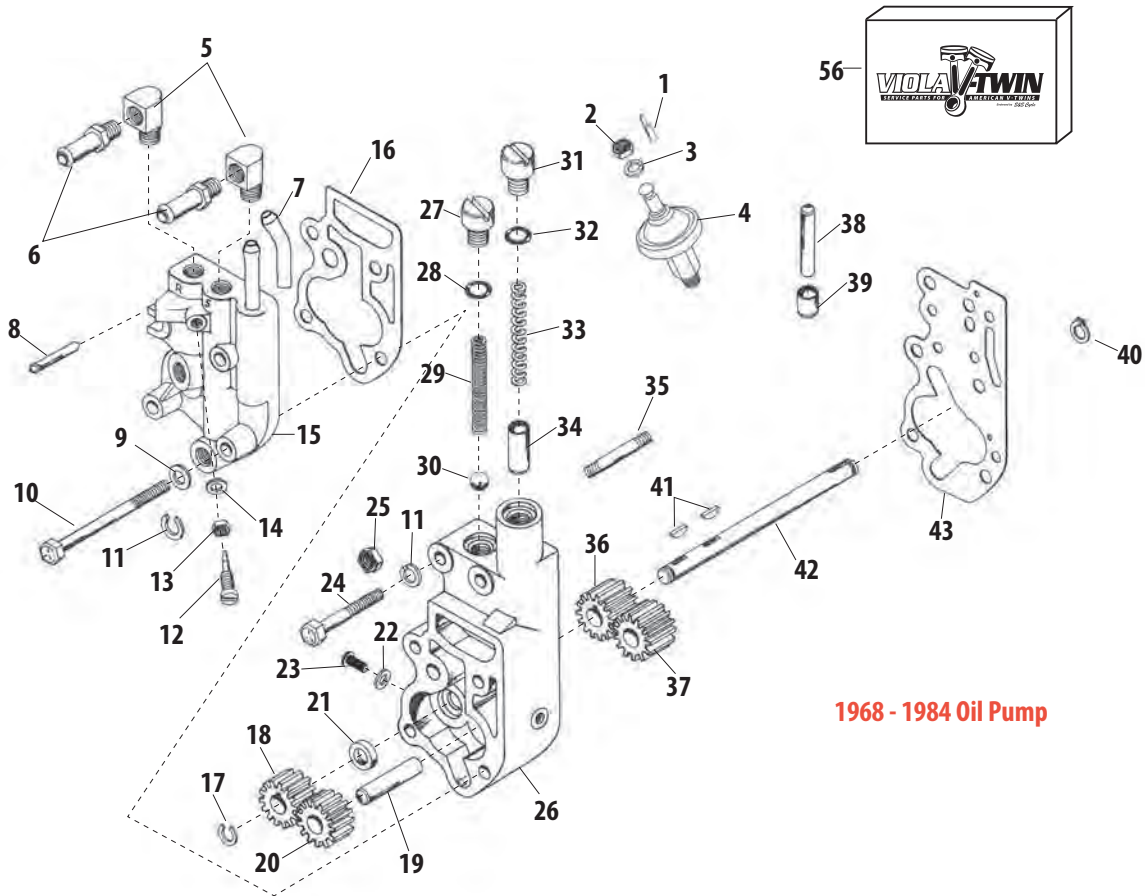
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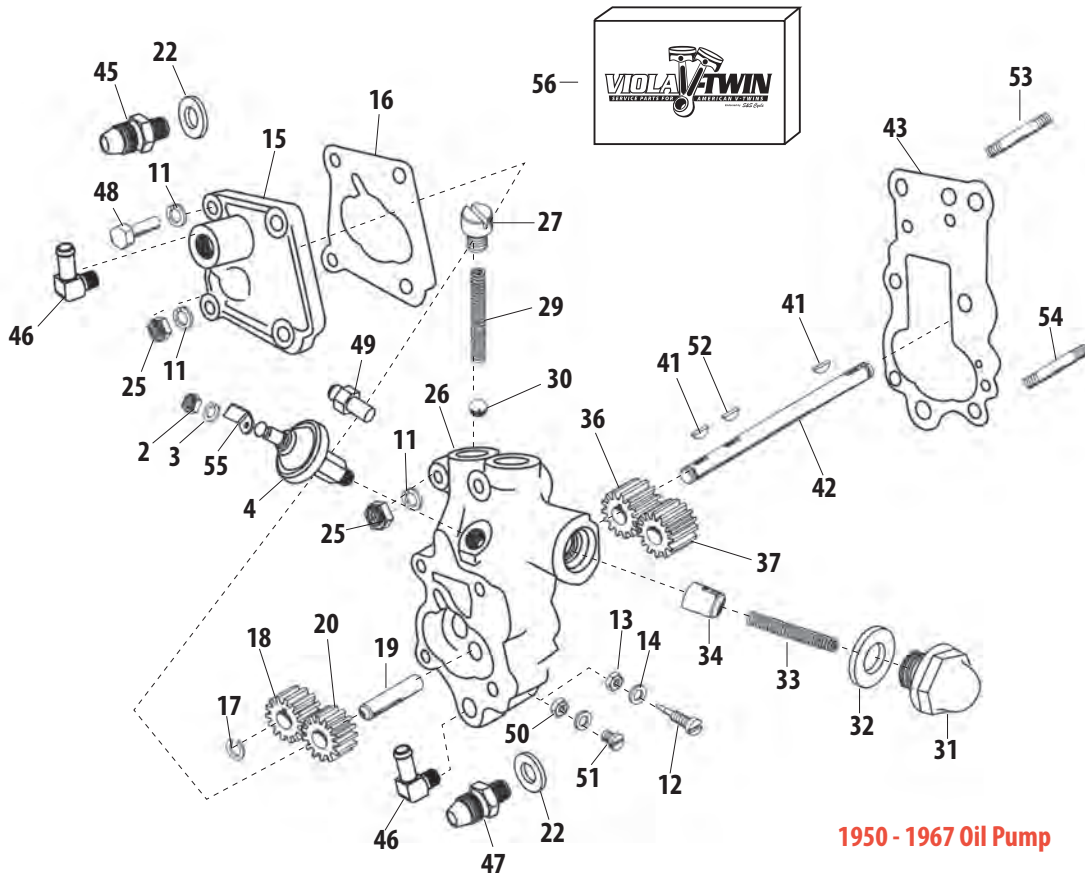
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1968 - 1984 Oil Pump



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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Valve Spring Kit, Includes Inner & Outer Spring, 1955-'65 - FLH		18205-57	—
	Spring, Kit, Valve Triple Steel, .590" lift, 1948-E'81 OHV BT See chart for complete Valve Spring Kit		18201-57B	—
	Spring, Kit, Valve Dual Steel, .550" lift, 1948-'84 OHV BT See chart for complete Valve Spring Kit			—
2	Valve Keeper, 1936-'84 bt <i>each</i>		18228-36	90-2037-5
	Valve Keeper, 1936-'84 bt, 8 Pack			50-7165
3	Collar, Valve Spring, Upper (2), 1941-'65 - FL, FLH		18221-36	—
4	Valve Spring, Outer (2), 1941-'65 - FL	168-36	18203-36	—
5	Valve Spring, Inner (2), 1941-'65 - FL	169-36	18204-36A	—
6	Collar, Valve Spring, Lower (2), 1948-'65 - FL, FLH		18222-48	—
7	Valve Guide, Intake & Exhaust - 0.001 O.S. O.D. (cast iron) 1948-'79		18138-79A	—
	Valve Guide, Intake & Exhaust - 0.008 O.S. O.D. (cast iron) 1948-'79		18139-79A	—
	Valve Guide, Intake & Exhaust - 0.006 O.S. O.D. (cast iron) 1948-'79		18140-79A	—
	Valve Guide, Intake & Exhaust - 0.004 O.S. O.D. (cast iron) 1948-'79		18141-79A	—
	Valve Guide, Intake & Exhaust - 0.002 O.S. O.D. (cast iron) 1948-'79		18143-79A	—
8	Rocker Arm Bearing Stud 1948-'65 OHV BT	181-48	17647-48	—
9	Head, Front 1948-'49 "Plumber Nut" Style (Casting #119-48)	10-48A	16700-48	—
	Head, Rear 1948-'49 "Plumber Nut" Style (Casting #119-482)			—
	Head, Front 1950-'54 "Plumber Nut" Style (Casting #119-50)			—
	Head, Rear 1950-'54 "Plumber Nut" Style (Casting #119-501)			—
	Head, Front 1955 "O-Ring" Style 6 Bolt Rocker Cover (Casting #16704-55)			—
	Head, Rear 1955 "O-Ring" Style 6 Bolt Rocker Cover (Casting #16705-55)			—
	Head, Front 1956-'57 "O-Ring" Style (Casting #16700-56)	10-49	16703-49	—
	Head, Rear 1956-'57 "O-Ring" Style (Casting #16701-56)			—
	Head, Front 1958-'62 "O-Ring" Style Thick Fin (Casting #16700-56)			—
	Head, Rear 1958-'62 "O-Ring" Style Thick Fin (Casting #16701-56)			—
	Head, Front 1963-'65 "Overhead Oiler" Style (Casting #16700-56)			—
	Head, Rear 1963-'65 "Overhead Oiler" Style (Casting #16701-56)			—
10	Insert, Valve Seat, Intake And Exhaust, 1948-'65	162-48	18057-48	—
11	Intake Valve, 1948-'65		18071-48	—
	Exhaust Valve (special - 0.156 O.S. head), 1952-'65		18082-60	—
	Exhaust Valve - Standard (Nittan), 1948-E'81		18086-80	—
	Exhaust Valve - Standard (Eatons), 1948-E'81		18089-80	—
12	Gasket, Head, Flathead Power®, Stock Bore, Copper, 1948-'65 bt		16770-48	106-5933
13	Front Cylinder with Piston Assembly (Low Compression) 1948-'52, 61"	6-48B	16483-48	—
	Rear Cylinder with Piston Assembly (Low Compression) 1948-'52, 61"	7-48B	16492-48	—
	Front Cylinder with Piston Assembly (High Compression) 1948-'52, 61"	6-48E	16486-48	—
	Rear Cylinder with Piston Assembly (High Compression) 1948-'52, 61"	7-48E	16495-48	—
	Front Cylinder with Piston Assembly (High Compression) 1948-'65, 74"	6-48C	16484-48	—
	Rear Cylinder with Piston Assembly (High Compression) 1948-'65, 74"	7-48C	16493-48	—
	Front Cylinder with Piston Assembly (Low Compression) 1948-'65, 74"	6-48D	16485-48	—
	Rear Cylinder with Piston Assembly (Low Compression) 1948-'65, 74"	7-48D	16494-48	—
	14	Piston with Rings and Pin Std. (High Compression) 1948-'52, 61"	256-48A	22182-48
Piston with Rings and Pin +.005 (High Compression) 1948-'52, 61"		256-48C	22183-48	—
Piston with Rings and Pin +.010 (High Compression) 1948-'52, 61"		256-48D	22184-48	—
Piston with Rings and Pin +.020 (High Compression) 1948-'52, 61"		256-48E	22185-48	—
Piston with Rings and Pin +.030 (High Compression) 1948-'52, 61"		256-48F	22186-48	—
Piston with Rings and Pin +.040 (High Compression) 1948-'52, 61"		256-48G	22187-48	—
Piston with Rings and Pin +.050 (High Compression) 1948-'52, 61"		256-48H	22188-48	—
Piston with Rings and Pin +.060 (High Compression) 1948-'52, 61"		256-48JA	22189-48	—
Piston with Rings and Pin +.070 (High Compression) 1948-'52, 61"		256-48KA	22190-48	—
Piston with Rings and Pin Std. (Low Compression) 1948-'52, 61"			22141-48	—
Piston with Rings and Pin +.005 (Low Compression) 1948-'52, 61"			22142-48	—
Piston with Rings and Pin +.010 (Low Compression) 1948-'52, 61"			22143-48	—
Piston with Rings and Pin +.020 (Low Compression) 1948-'52, 61"			22144-48	—
Piston with Rings and Pin +.030 (Low Compression) 1948-'52, 61"			22145-48	—
Piston with Rings and Pin +.040 (Low Compression) 1948-'52, 61"			22146-48	—
Piston with Rings and Pin +.050 (Low Compression) 1948-'52, 61"		22147-48	—	
Piston with Rings and Pin +.060 (Low Compression) 1948-'52, 61"		22148-48	—	
Piston with Rings and Pin +.070 (Low Compression) 1948-'52, 61"		22149-48	—	



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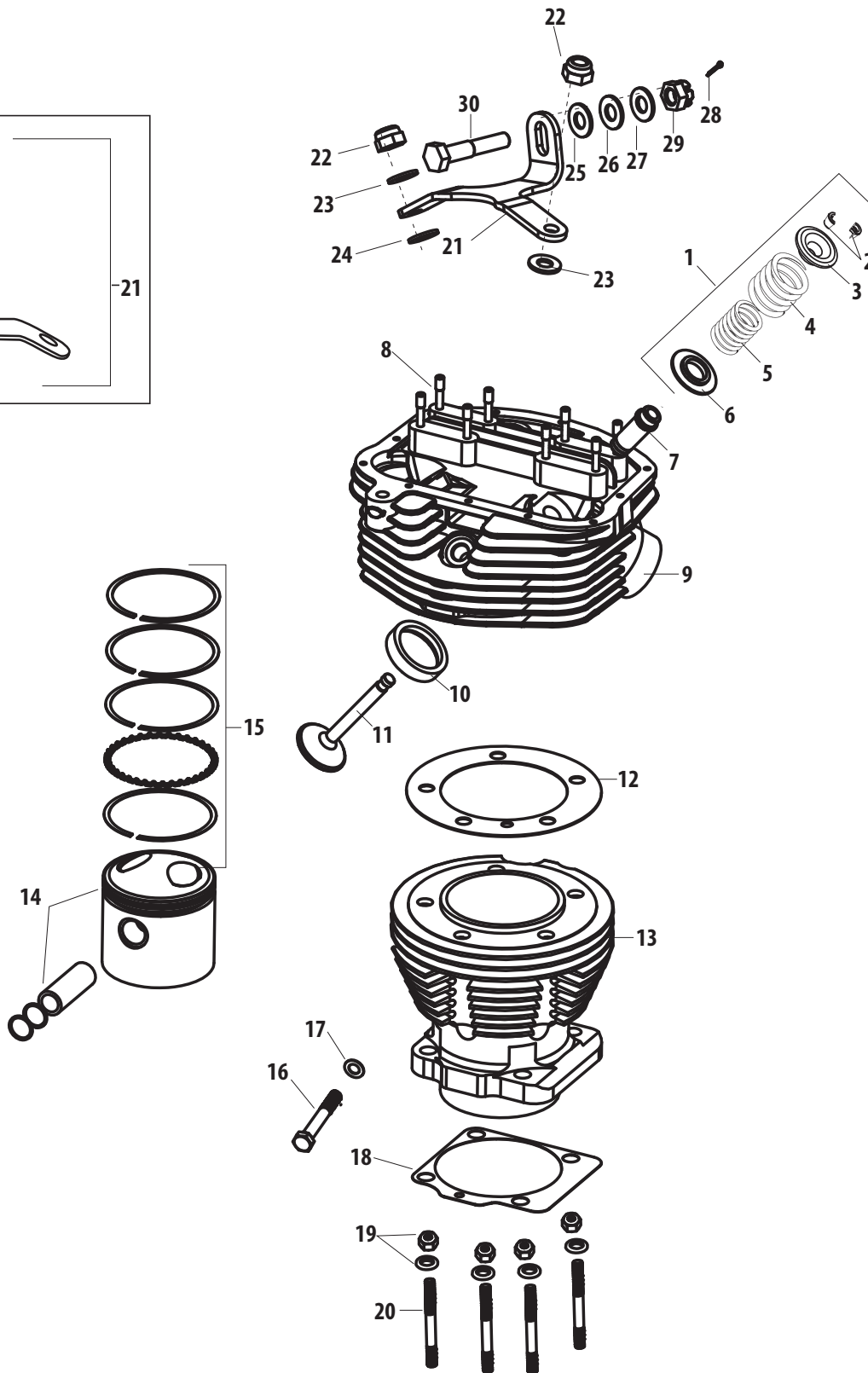
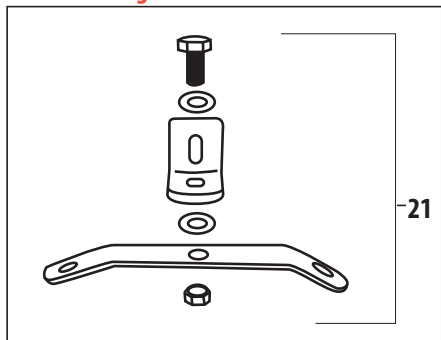
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
	Piston, Set, 3-7/16", Standard, 74", LC, Forged, .791" WP, 1936-'84 bt		22101-48	106-5495
	Piston with Rings and Pin +.005 (High Compression) 1948-'65, 74"		22102-48	—
	Piston, Set, 3-7/16", +.010", 74", LC, Forged, .791" WP, 1936-'78 bt		22103-48	106-5496
	Piston, Set, 3-7/16", +.020", 74", LC, Forged, .791" WP, 1936-'78 bt		22104-48	106-5497
	Piston, Set, 3-7/16", +.030", 74", LC, Forged, .791" WP, 1936-'78 bt		22105-48	106-5498
	Piston, Set, 3-7/16", +.040", 74", LC, .791" WP, 1936-'78 bt		22106-48	106-5773
	Piston with Rings and Pin +.050 (High Compression) 1948-'65, 74"		22107-48	—
	Piston with Rings and Pin +.060 (High Compression) 1948-'65, 74"		22108-48	—
	Piston with Rings and Pin +.070 (High Compression) 1948-'65, 74"		22109-48	—
	Piston with Rings and Pin Standard (Low Compression) 1948-'65, 74"	255-48A	22216-48	—
	Piston with Rings and Pin +.005 (Low Compression) 1948-'65, 74"	255-48C	22217-48	—
	Piston with Rings and Pin +.010 (Low Compression) 1948-'65, 74"	255-48D	22218-48	—
	Piston with Rings and Pin +.020 (Low Compression) 1948-'65, 74"	255-48E	22219-48	—
	Piston with Rings and Pin +.030 (Low Compression) 1948-'65, 74"	255-48F	22220-48	—
	Piston with Rings and Pin +.040 (Low Compression) 1948-'65, 74"	255-48G	22221-48	—
	Piston with Rings and Pin +.050 (Low Compression) 1948-'65, 74"	255-48H	22222-48	—
	Piston with Rings and Pin +.060 (Low Compression) 1948-'65, 74"	255-48JA	22223-48	—
	Piston with Rings and Pin +.070 (Low Compression) 1948-'65, 74"	255-48KA	22224-48	—
15	Ring Set, Standard, 1948-'52, 61"	262-48	22325-48	—
	Ring Set, +.005 1948-'52, 61"	262-48C	22326-48	—
	Ring Set, +.010 1948-'52, 61"	262-48D	22327-48	—
	Ring Set, +.020 1948-'52, 61"	262-48E	22328-48	—
	Ring Set, +.030 1948-'52, 61"	262-48F	22329-48	—
	Ring Set, +.040 1948-'52, 61"	262-48G	22330-48	—
	Ring Set, +.050 1948-'52, 61"	262-48H	22331-48	—
	Ring Set, +.060 1948-'52, 61"	262-48JA	22332-48	—
	Ring Set, +.070 1948-'52, 61"	262-48KA	22333-48	—
	Ring, Set, Piston, 3-7/16", Standard, Moly Faced, .0625, .0625, .184, 1966-'84 bt		22355-48	94-2200X
	Ring, Set, +.005, 1948-'65, 74"		22356-48	—
	Ring, Set, Piston, 3-7/16", +.010", Moly Faced, .0625, .0625, .184, 1966-'84 bt		22357-48	94-2201X
	Ring, Set, Piston, 3-7/16", +.020", Moly Faced, .0625, .0625, .184, 1966-'84 bt		22358-48	94-2202X
	Ring, Set, Piston, 3-7/16", +.030", Moly Faced, .0625, .0625, .184, 1966-'84 bt		22359-48	94-2203X
	Ring, Set, Piston, 3-7/16", +.040", Moly Faced, .0625, .0625, .184, 1966-'84 bt		22360-48	94-2204X
	Ring, Set, +.050, 1948-'65, 74"		22361-48	—
	Ring, Set, +.060, 1948-'65, 74"		22362-48	—
	Ring, Set, +.070, 1948-'65, 74"		22363-48	—
16	Head Bolt, Kit, Hex, 7/16-20 x 2-3/8", Stock 1948-'65 OHV bt & 3-5/16	14-48	16814-48	106-4523
17	Washer, Head Bolt, Cadmium Plated, 1936-'64 OHV bt	15-36	6469	106-5314
18	Gasket, Front, Base, Flathead Power®, Stock Bore, PF4N, 1936-'65 bt		16776-48	106-5931
	Gasket, Rear, Base, Flathead Power®, Stock Bore, PF4N, 1936-'65 bt		16777-48	106-5932
19	Nut, Cylinder Base, HH, 7/16-20 UNF-2B, Cadmium Plated, Stock 1930-'78 bt <i>See chart for Nut and Washer Kit and optional Stainless Steel version</i>	0134	16602-30	106-4524
	Washer, Lock, 7/16", Cadmium Plated	0265	7055W	106-5313
20	Stud, Cylinder Base, 7/16-14 UNC, 7/16-20 UNF x 2.0, Zinc, Steel	29-30	16831-30	31-2328-S
21	Bracket, Engine Mounting, 1948-'65 <i>See chart for complete Engine Mount Kit</i>		16853-48	—
22	Nut, Lock, HH, 7/16-20, Steel/Nylon		7825	50-5045
23	Washer, Flat, .469" x .922" x .125", Zinc, Steel		6495HW	50-7064
24	Washer, 7/16 x 1-1/8 x 1/16 (2), 1948-'65		6516HW	—
25	Washer, 29/64 x 1-1/8 x 1/64, 1941-'65		6524W	—
26	Washer, 29/64 x 1-1/8 x 5/32 (2), 1941-'65		6522HB	—
27	Washer, 29/64 x 1-1/8 x 3/32, 1941-'65		6521W	—
28	Cotter Pin, 3/32 x 7/8, 1952-'65		534	—
29	Castle Nut, 7/16-20, 1952-'65		7867W	—
30	Bolt, Engine Bracket - Center, 1952-'65		16865-52	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Spring, Kit, Valve, Triple, Steel, .590", 1948-E'81 bt	90-2060
	Spring, Kit, Valve, Dual, Steel, .550", 1948-'84 bt	90-2053
19	Nut, Kit, Base, Cadmium Plated, Stock Bore 1930-'78 bt (includes 8 nuts and 8 washers)	106-4522
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>each</i>	93-3063-S
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>8 pack</i>	93-3063
21	Mount, Top, Engine, 2-Piece, Natural, Steel, 1948-'84 bt	93-4057

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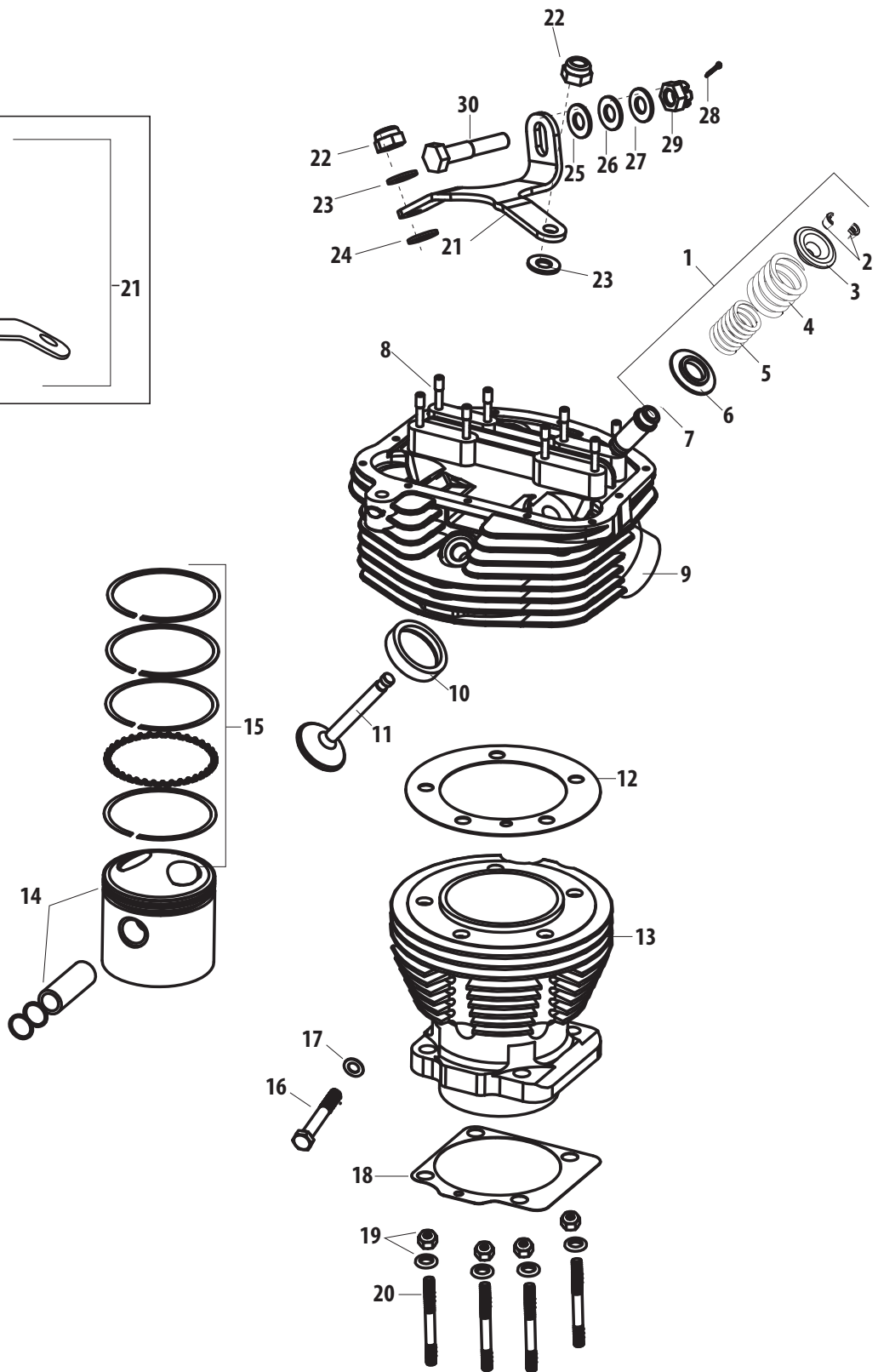
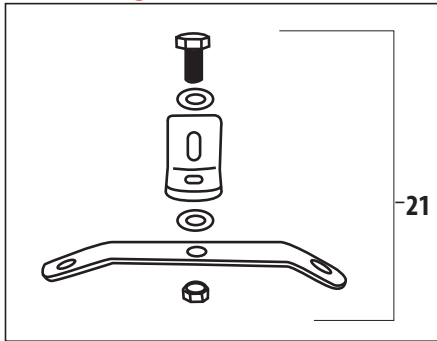
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S&S Mounting Bracket



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ROCKER ARMS AND PUSHRODS REPLACEMENT PARTS FOR HARLEY-DAVIDSON® PANHEAD MODELS

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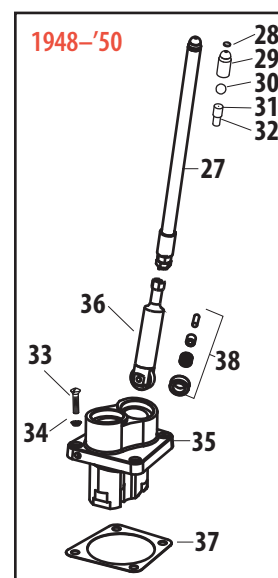
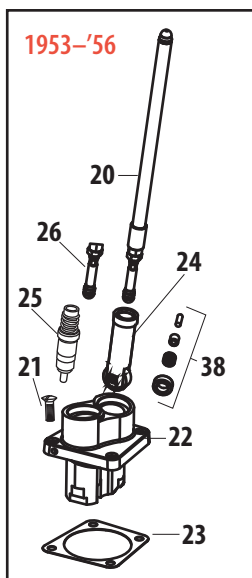
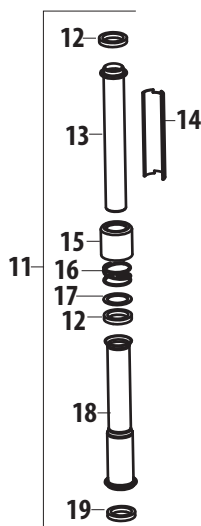
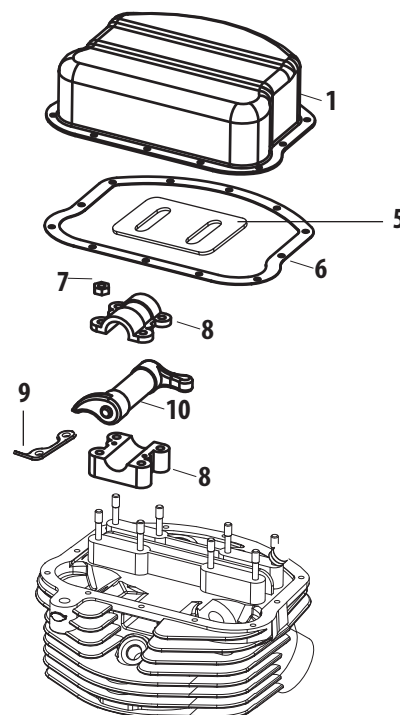
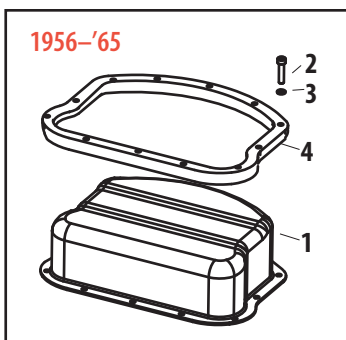
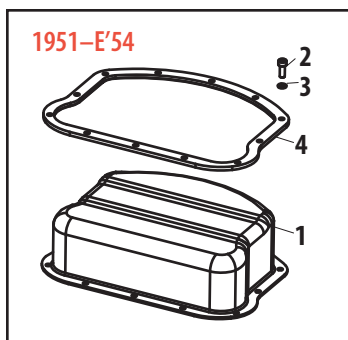
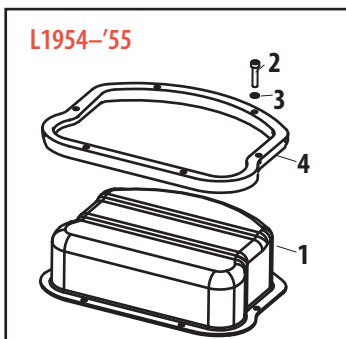
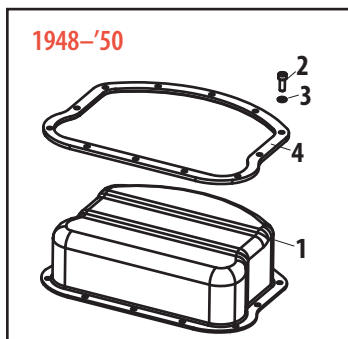
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Rocker Arm Cover 1948-'65 bt (12 bolt chromed steel) <i>See chart for complete Rocker Arm Cover Set</i>	173-48	17500-48	—
	Rocker Arm Cover 1949-'E54 & 56 OHV BT (12 bolt polished stainless steel) <i>See chart for complete Rocker Arm Cover Set</i>			—
	Rocker Arm Cover L1954-'55 OHV BT (6 bolt polished stainless steel)			—
	Rocker Arm Cover 1957-'65 OHV BT (12 bolt polished aluminum) <i>See chart for complete Rocker Arm Cover Set</i>			—
2	Screw, #10-24 x 7/16" recessed round head phillips 1948 OHV BT <i>See chart for chrome option</i>		2675	—
	Screw, SHC, 10-24 x 3/4", Chrome, Allen Head, 1949-'E54 & 56 OHV BT		2674	106-0913
	Screw, #10-24 x 9/16" round head phillips 1949-'E54 & 56 OHV BT <i>See chart for chrome option</i>		2678	—
	Screw, #10-24 x 1-1/4" hex head (1/4" hex) L1954-'65 OHV BT		3578W	—
3	Washer, No. 10 lock, 1948-'53	0254	7021	—
	Washer, No. 10 x 3/8" x 1/16", 1954-'65	—	6150W	50-7009
4	Ring, Rocker Cover, D Style, 1951-'E54 OHV BT <i>2 Pack</i>	—	17507-51	106-0920
	Ring, Rocker Cover, D Style, 49/64" thick aluminum, 6 bolt, E1954-'55 OHV BT	—	17509-54	—
	Ring, Rocker Cover, D Style, 49/64" thick aluminum, 12 bolt, E1956-'65 OHV BT	—	17509-54	—
5	Pad, Rocker Arm Cover, 1948-'65 - FL, FLH		17507-48	—
6	Gasket, Rocker Cover, Rubber, 1948-'65 OHV bt		17541-48B	900-0329
	Gasket, Set, Rocker Cover, Rubber, 1948-'65 OHV bt		—	900-0339
7	Locknut, 5/16-24 x 1/4 x 1/2 hex. (8), 1948-'65 - FL, FLH		7727	—
8	Rocker Arm Bearing Front And Rear Exhaust 1949-'65 OHV BT (1948 exhaust and intake)	180-48	17611-48	—
	Front Intake Rocker Arm Bearing 1949-'65 OHV BT	180-49	17615-49	—
	Rear Intake Rocker Arm Bearing 1949-'65 OHV BT	180-49A	17614-49	—
9	Oiler, Front Intake Valve, 1949-'65 - FL, FLH		18100-49	—
	Oiler, Rear Intake Valve, 1949-'65 - FL, FLH		18102-49	—
10	Rocker Arm, Rear Exhaust and Front Intake, 1948-'65 - FL, FLH	98-48	17360-48	—
	Rocker Arm, Rear Intake and Front Exhaust, 1948-'65 - FL, FLH	99-48	17375-48	—
11	Pushrod Cover Kit, 1948-'1979 OHV, includes #32-39			—
12	O-ring, Square, .1875"	145-36	17955-36	106-3849
13	Pushrod Cover, Top, Natural, Zinc Plated, Steel, Stock 1936-'47 OHV bt & KN-Ser	134-36	17935-36	106-3850
	Cover, Upper Pushrod (4-1/2"), 1948-'65 OHV bt & 1957-'85 xl	134-48	17935-48B	—
14	Cover Keeper, Set, Pushrod, 2.400", Chrome		17950-48	93-4070
15	Cap, Pushrod Cover, 1936-up bt, 1957-'90 xl	138-36	17945-36B	93-4017
16	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt, 1957-'90 xl	140-36	17947-36	93-4018
17	Washer, Flat, .715" x .950" x .031", Steel	146-36	6762B	50-7131
18	Cover, Lower Pushrod (2), 1948-'65		17938-48B	—
19	Cork Washer, Pushrod Cover - Lower (2), 1948-'65		17955-48	—
	O-ring, Quad Seal, (-119), .937" ID x 1.125" OD, Viton®		11133A	50-8064-S
20	Pushrod, Set, Non-Adjustable, Stock, Steel, 1948-'65 bt		17905-53B	93-5059
21	Screw, Tappet Guide (4), Late 1953-'65 - FL, FLH		18660-53	—
	Screw, 1/4-24 x 7/8, 12 pt. hd. (4), Late 53-'65 - FL, FLH		3750	—
22	Guide, Front Tappet, Cast Iron (Silver Paint) (Casting Number 18600-53) 1953-'65		18600-53	—
	Guide, Rear Tappet, Cast Iron (Silver Paint) (Casting Number 18600-53) 1953-'65		18610-53	—
23	Gasket, Set, Tappet Guide, 1948-'99 bt <i>2 Pack</i>		18634-48B	33-5302
	Gasket, Set, Tappet Guide, 1948-'99 bt <i>10 Pack</i>		18633-48B	33-5313
24	Tappet, Hydraulic, Roller, , Crane Cams® <i>2 Pack</i>		18522-53A	3-1013
	Tappet, Hydraulic, Roller, Oversized, Crane Cams® <i>2 Pack</i>			3-10130S
25	Insert, Assembly, Hydraulic, Crane Cams® <i>each</i>		17920-53A	3-0150
26	Tappet Adjusting Screw with Nut, 1953-'56		18556-53	—
	Tappet Adjusting Screw with Nut, 1957-'65		18556-57	—
27	Valve, Pushrod	131-48	17905-48	—
28	Pushrod Hydraulic Unit Lock Ring	133-48	17923-48	—
29	Pushrod Hydraulic Unit, Cupped	132-48	17920-48	—
30	Pushrod Hydraulic Unit Spring Ball (3/16")	0279	8854	—
31	Pushrod Hydraulic Unit Spring Plug	133-48B	17927-48	—
32	Pushrod Hydraulic Unit Spring	133-48A	17925-48	—
33	Screw, Slotted, Oval, Machined, 1/4-24 x 5/8", Cadmium Plated, Steel	057	2329	106-3847
34	Washer, Countersunk, External Tooth, 1/4" x 1/2", Cadmium Plated, Steel	0365	7231	106-3848
35	Guide, Front Tappet, Aluminum (Casting Number 9-483) 1948-'52	234-48	18600-48	—
	Guide, Rear Tappet, Aluminum (Casting Number 9-482) 1948-'52	235-48	18610-48	—



#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
36	Tappet, with Roller, 1948-'52	200-48	18492-48	—
37	Gasket, Tappet Guide, Rear Cylinder, 1948-'65 <i>See chart for front and rear Gasket Set</i>	237-48	18633-48	33-5302R
	Gasket, Tappet Guide, Front Cylinder, 1948-'65 <i>See chart for front and rear Gasket Set</i>	237-48A	18634-48	33-5302F
38	Roller, Kit, Replacement	208-29A	18534-29A	3-0101

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Cover,Set,Rocker Arm,Chrome,Steel,1948-'65 bt	106-0919
2	Screw,SHC, 10-24 x 3/4", Chrome	106-0913
37	Gasket, Set, Tappet Guide, 1948-'99 bt	33-5302

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FLYWHEEL REPLACEMENT PARTS FOR HARLEY-DAVIDSON® PANHEAD MODELS (AND KNUCKLEHEAD)

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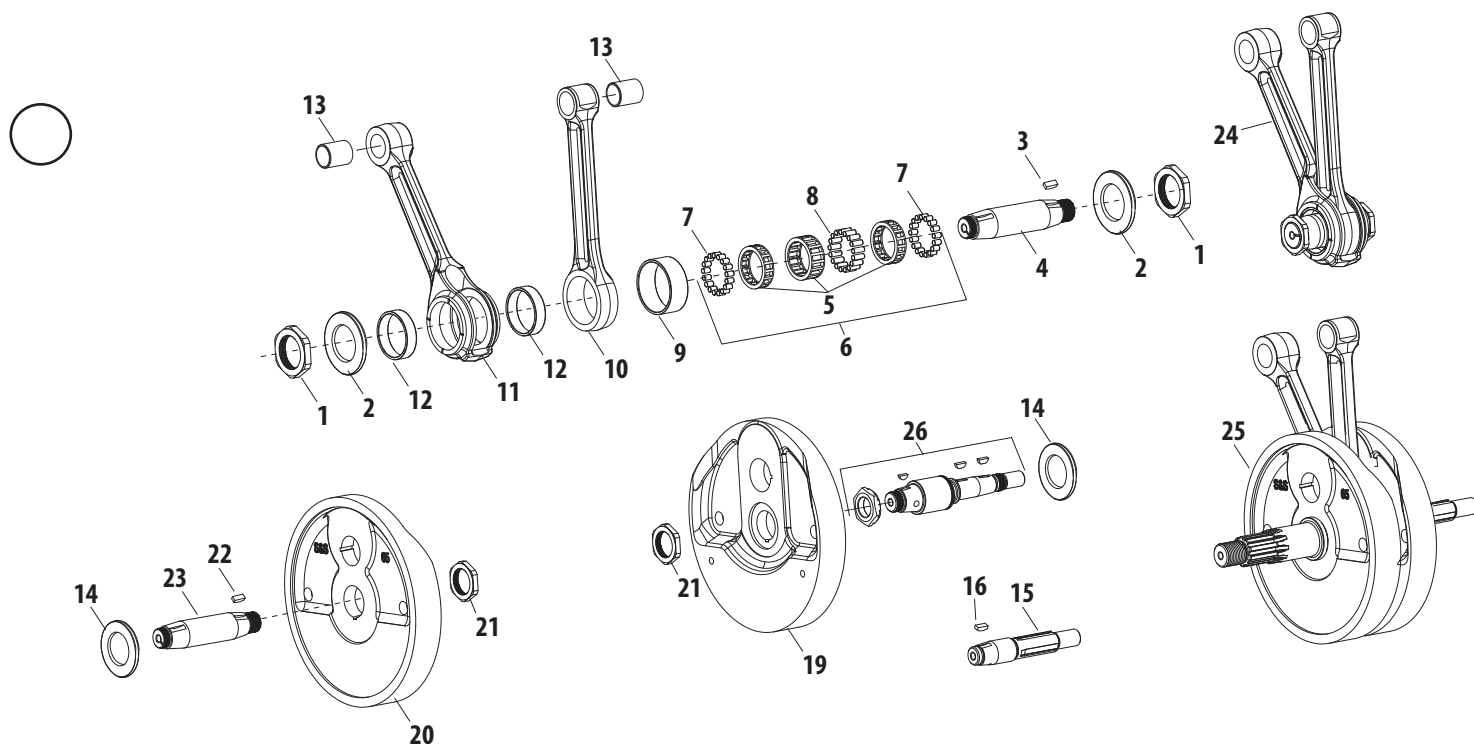
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.	
1	Nut, Crankpin (2), 1954-E'81 bt		23966-54A	—	
	Nut, Crankpin (2), 1937-'49, 61" OHV bt & 1937-'48 SVBT	366-36	23966-36	—	
	Nut, Crankpin (2), 1941-'49, 74" OHV bt	366-41	23967-41	—	
	Washer, Flywheel (2), 1937-'49, 61" OHV bt & 1937-'48 SVBT	372-36	23972-36	—	
	Washer, Flywheel (2), 1941-E'70 bt	372-41	23973-41	—	
3	Key, Crankpin, 1930-E'81 bt	1650-18	23985-18	—	
4	Crankpin, Assembly, Tapered, 1.249", 1941-'81 bt	348-41	23961-41	34-2003	
	Crankpin, 1940-'49 SV & 61" OHV bt <i>See chart for compatible Crankpin Assembly</i>	348-40	23962-40	—	
5	Retainer, Crankpin Roller (4), 1951-'72 bt	301-51	24366-51	—	
	Retainer, Crankpin Roller (4), 1940-'49, 61" OHV bt	301-40	24366-40	—	
6	Bearing, Assembly, Connecting Rod, Standard, 1941-'84 bt		24385-40B	34-4010	
	Bearing, Assembly, Connecting Rod, +.0004", 1941-'84 bt		24387-40B	—	
	Bearing, Assembly, Connecting Rod, +.0006", 1941-'84 bt		24388-40B	—	
	Bearing, Assembly, Connecting Rod, +.0008", 1941-'84 bt		24389-40B	—	
	Bearing, Assembly, Connecting Rod, +.0010", 1941-'84 bt		24390-40B	—	
	Bearing, Assembly, Connecting Rod, -.0002", U.S., 1941-'84 bt		24391-40B	—	
	Roller, Crankpin, 0.188 X 0.344 - Standard (36), 1940-'49 bt	304-40	9361	—	
7	Roller, Crankpin, +.0002" (36), 1940-'49 bt	304-40D	9362	—	
	Roller, Crankpin, +.0004" (36), 1940-'49 bt	304-40F	9363	—	
	Roller, Crankpin, +.0006" (36), 1940-'49 bt	304-40H	9364	—	
	Roller, Crankpin, +.0008" (36), 1940-'49 bt	304-40KA	9365	—	
	Roller, Crankpin, +.0010" (36), 1940-'49 bt	304-40MA	9366	—	
	Roller, Crankpin, 0.188 X 0.329 - Std. (36), 1951-'72 bt		9101A	—	
	Roller, Crankpin, +.0002" (36), 1951-'72 bt		9102A	—	
	Roller, Crankpin, +.0004" (36), 1951-'72 bt		9103A	—	
	Roller, Crankpin, +.0006" (36), 1951-'72 bt		9104A	—	
	Roller, Crankpin, +.0008" (36), 1951-'72 bt		9105A	—	
	Roller, Crankpin, +.0010" (36), 1951-'72 bt		9106A	—	
	Roller, Crankpin, -.0002", U.S. (36), 1951-'72 bt		9108A	—	
	8	Roller, Crankpin, 0.188 X 0.694 - Standard (36), 1940-'49 bt	305-40	9341	—
		Roller, Crankpin, +.0002" (36), 1940-'49 bt	304-40D	9342	—
Roller, Crankpin, +.0004" (36), 1940-'49 bt		304-40F	9343	—	
Roller, Crankpin, +.0006" (36), 1940-'49 bt		304-40H	9344	—	
Roller, Crankpin, +.0008" (36), 1940-'49 bt		304-40KA	9345	—	
Roller, Crankpin, +.0010" (36), 1940-'49 bt		304-40MA	9346	—	
Roller, Crankpin, 0.188 x 0.662 - Standard (18), 1951-'72 bt			9171A	—	
Roller, Crankpin, +.0002" (18), 1951-'72 bt			9172A	—	
Roller, Crankpin, +.0004" (18), 1951-'72 bt			9173A	—	
Roller, Crankpin, +.0006" (18), 1951-'72 bt			9174A	—	
Roller, Crankpin, +.0008" (18), 1951-'72 bt			9175A	—	
Roller, Crankpin, +.0010" (18), 1951-'72 bt			9176A	—	
Roller, Crankpin, -.0002", U.S. (18), 1951-'72 bt			9179A	—	
9		Race, Front, Connecting Rod, 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>		24356-36A	34-4005
10	Connecting Rod, Front	286-36	24302-36	—	
11	Connecting Rod, Rear	285-36	24298-36	—	
12	Race, Rear, Connecting Rod, Lower, 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>		24345-36A	34-4006	
13	Bushing, Piston Pin, +.002 O.S. O.D., 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>	295-36	24334-36	34-4007	
	Bushing, Piston Pin, +.010 O.S. O.D. (2), 1941-'84 bt	295-36A	24335-36	—	
14	Flywheel Thrust Collar, Assortment of 10, 1929-'49 bt	358-17A	24100-17	—	
	Flywheel Thrust Collar, .066", 1929-'49 bt	358-17B	24102-17	—	
	Flywheel Thrust Collar, .070", 1929-'49 bt	358-17C	24104-17	—	
	Flywheel Thrust Collar, .074", 1929-'49 bt	358-17D	24106-17	—	
	Flywheel Thrust Collar, .078", 1929-'49 bt	358-17E	24108-17	—	
	Flywheel Thrust Collar, .082", 1929-'49 bt	358-17F	24111-17	—	
	Flywheel Thrust Collar, .086", 1929-'49 bt	358-17G	24113-17	—	
	Flywheel Thrust Collar, .090", 1929-'49 bt	358-17H	24115-17	—	
	Flywheel Thrust Collar, .094", 1929-'49 bt	358-17JA	24117-17	—	
	Flywheel Thrust Collar, .098", 1929-'49 bt	358-17KA	24120-17	—	
	Flywheel Thrust Collar, .102", 1929-'49 bt	358-17LA	24122-17	—	
15	Gear Shaft, Pinion 1939-'49 OHV <i>See chart #26 for compatible Pinion Shaft Assembly</i>	356-39	24696-39	—	
	Gear Shaft, Pinion 1939-'54 OHV		24006-39	—	
	Gear Shaft, Pinion 1955-'57 OHV		24006-54A	—	
	Gear Shaft, Pinion 1958-'72 OHV		24006-58	—	
16	Key, Gear Shaft, 1912-E'81	361-12	23985-12	—	



#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
17	Shaft Nut Lock Plate 1936-'49 OHV 61" & 1937-'48 SVBT All Shafts, 1941-'49 OHV 74" Gear & Sprocket Shafts (Not Shown)	370-36	24015-36	—
	Crankpin Nut Lock Plate 1941-'49 OHV 74" (Not Shown)	369-41	24015-36	—
18	Lockplate Screw 1912-'49 bt (Not Shown)	030	1187	—
	Screw, No. 10-24 x 3/8 Pozidriv Pan Hd. (4), 1948-E'78	030	2660	—
19	Flywheel, Right, 1941-'80 OHV 74" & 80"	339-41A	23940-41A	—
	Flywheel, Right, 1936-'40 OHV 61"	339-36	339-36	—
	Flywheel, Right, 1941-'49 OHV 61"	339-41	23942-41	—
20	Flywheel, Left, 1941-'80 OHV 74" & 80"	338-41A	23919-41	—
	Flywheel, Left, 1936-'40 OHV 61"	338-36	338-36	—
	Flywheel, Left, 1941-'49 OHV 61"	338-41	23922-41	—
21	Nut, Gear And Sprocket Shafts 1937-E '81	364-36	24023-36	—
22	Key, Sprocket Shaft, 1956-'71 bt	361-12	23985-56	—
	Key, Sprocket Shaft, 1912-'55 bt	361-12	23985-12	—
23	Sprocket Shaft, 1965-'69 bt See chart for compatible Sprocket Shaft		24001-65	—
	Sprocket Shaft, 1956-'64 bt See chart for compatible Sprocket Shaft		24001-56	—
	Sprocket Shaft, 1955 bt See chart for compatible Sprocket Shaft		24001-55	—
	Sprocket Shaft, 1930-'54 bt See chart for compatible Sprocket Shaft	352-30	24001-30	—
24	Set of Connecting Rods with Bearings & Crankpin, 1936-'49 OHV 61" See chart for Connecting Rod Set	290-36	24277-36	—
	Set of Connecting Rods with Bearings & Crankpin, 1941-'49 OHV 74" See chart for Connecting Rod Set	290-41	24281-41A	—
25	Flywheel, Set, 8-1/2" Diameter, Special Order, 1936-'84 bt See chart for a Special Order Flywheel Assembly		23906-74	—
	Flywheel, Set, with Shafts and Rods, 1936-'84 See chart for a Special Order Flywheel Assembly		23906-78F	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
4	Crankpin, Assembly, Tapered, 1.249", 1937-'53 OHV bt and 1940-'48 SVBT (includes crankpin nuts and key)	34-2001
	Crankpin, Assembly, Tapered, 1.249", 1941-'81 bt (includes crankpin nuts and key)	34-2003
9, 12, 13	Rebuild Kit, Connecting Rod, Race & Bushing, 1941-'99 bt	34-4040
23	Sprocket Shaft, Assembly, Packaged, 1936-'54 bt	33-2001
	Sprocket Shaft, Assembly, Packaged, 1965-'69 bt	33-2003
24	Connecting Rod, Set, Heavy Duty, IBC, .791" WP, 7.440", 1941-E'81 bt	34-7004
25	Flywheel, Special Order, 1936-'99 bt	32-2015
	Flywheel, Set, 4-1/4" Stroke, 8-1/2" Diameter, Special Order, 1936-'99 bt	32-2050
	Flywheel, 3-13/16" Stroke, 7-7/8" Diameter, WR/KR	32-3013
26	Pinion Shaft, Assembly, Tapered, Standard, 1939-'53 bt	33-2021
	Pinion Shaft, Assembly, Tapered, Standard, 1958-E'81 bt	33-2024
	Pinion Shaft, Assembly, Tapered, Standard, 1937-'43 bt	33-2356

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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Plug, Oil Screen, 1948 - '99 S&S bt See chart for compatible Oil Pump Screw	655	26263-80	—
2	Gasket, Oil Screen Plug, L1952 - '69	—	62702-52	—
	O-Ring, Oil Screen Plug, 1948 - '99 S&S Bt See chart for compatible O-Ring	—	11105	—
3	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>each</i>	24982-66	24982-70	31-2011-S
	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>10 Pack</i>	—	—	31-2058
4	Oil Screen, Crankcase, L1952 - '69	24981-66	24981-70	31-2010
5	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1936 - '64	585-30	377	50-8017
	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1965 - '69	—	378	50-8017
6	Fitting, Rocker Arm Oil Line, 1966 - '69	—	63526-57	—
7	Retaining Ring, Oil Pump Drive Shaft, SAE 1060-1090, 1941 - '69	695-36	See	50-8058
8	Drive Gear, Oil Pump - 25 Tooth, 1941 - '69 See chart for compatible 24 Tooth Oil Pump Drive Gear	26345-39	26345-70	—
9	Key, Woodruff, .094" x .313" x .311", Steel, 1936 - '69	634-15	26348-15	50-8220-S
10	Shaft, Drive, Oil Pump, 1936-'67	638-36	26346-36	—
	Shaft, Drive, Oil Pump, .4223" x 4.650", Cold Drawn Steel, AISI 1146, 1968-'99 bt	26346-68	26346-70	31-6011
11	Bushing, Drive Shaft, Oil Pump, Stepped, .424" x .533" x 2.540", Bronze, 1954 - '69	412-36	24641-36	31-4008
12	Breather Screen Separator 1936 - '69 (Not Shown)	585-36A	25279-36	—
13	Breather Screen 1936 - '69 (Not Shown)	585-36	25275-36	—
14	Gasket, Gearcover, 1936-'64 bt	598-36	25225-36A	31-2030
	Gasket, Gearcover, Flathead Power®, 1965-'69	—	25225-36C	106-2072
15	Gear, Breather, High Evacuation, 1936 - '47	504-36	25300-36	106-5070
	Gear, Breather, High Evacuation, +.030", 1936-'47 bt	—	—	106-6012
	Gear, Breather, 1948-E'77 bt See chart for complete Breather Gear Kit	—	25313-73	33-4246
	Gear, Breather, +.030", 1948-E'77 bt	—	—	33-4247
	Gear, Breather, with Gear, L1977 - '99 See chart for complete Breather Gear Kit	25313-77B	25310-82A	33-4241
	Gear, Breather, +.030", with Gear, L1977 - '99	—	—	33-4242
16	Thrust Washer, Breather Valve - 0.115 Thick, 1950 - '69	—	25313-50	—
	Thrust Washer, Breather Valve - 0.120 Thick, 1950 - '69	—	25314-50	—
	Thrust Washer, Breather Valve - 0.125 Thick, 1950 - '69	—	25315-50	—
	Thrust Washer, Breather Valve - 0.110 Thick, 1952 - '69	—	25316-52	—
17	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1954 - '69	26349-54	26349-73	33-4232
18	Key, Gear Shaft (2), 1954 - '69	—	23985-54	—
	Key, Gear Shaft, Woodruff, .094" x .313" x .311", Steel (2), 1954 - '69	—	26348-15	50-8220-S
19	Spacer, Gear Shaft Pinion, 1940 - '53	355-40	24703-40	—
	Spacer, Gear Shaft Pinion, .740" x .900" x .320", Black, Steel, 1954 - '69	—	24703-54	33-4289
20	Spring, Seal Ring	355-37B	24699-37	—
21	Gear, Pinion, Green, 1954 - '69 See chart for Pinion Gear diameter options	—	24010-54	33-4125
22	Nut, Pinion Gear, 5/8-24 UNEF-3B LH x .375", Black, Steel, 4140, 1954 - '69	—	24023-54	33-4244
23	Dowel Pin, 1/8 x 1/4 (2), 1941 - '69	—	275	—
	Dowel Pin, 1/8 X 1/4 (2), 1931 - '49	661-31	271	—
24	Bushing, Gearcover Pinion Shaft, 1954 - '72	—	25582-54A	—
	Bushing, Gearcover Pinion Shaft, 1973 - '92	—	25582-73	—
25	Bushing, Crankcase Cam Gear, 1936 - '57	660-36	25597-36	—
	Bearing, Assembly, Needle, Cam, 1958 - '69	—	9058	31-4009
26	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>each</i>	—	—	33-5201
	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>5 Pack</i>	—	25550-57A	33-5213
	Washer, Cam, Lock, .062", Steel, 1936-'56 OHV bt <i>each</i>	—	—	106-4528
27	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel 1936 - '99 <i>each</i>	664-36	25550-36	33-5200
	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1007
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>each</i>	—	25551-36	33-5202
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>5 Pack</i>	—	—	33-1008
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>each</i>	—	—	33-5203
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>5 Pack</i>	—	25552-36	33-1009
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel 1936 - '99 <i>each</i>	—	—	33-5204
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, 1936 - '99 <i>5 Pack</i>	—	25553-36	33-1010
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>each</i>	—	—	33-5205
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>5 Pack</i>	—	25554-36	33-1011
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>each</i>	—	—	33-5206
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>5 Pack</i>	—	25555-36	33-1012
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel, 1936 - '99	—	25556-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .085", Steel, 1936 - '99	—	25557-79	—

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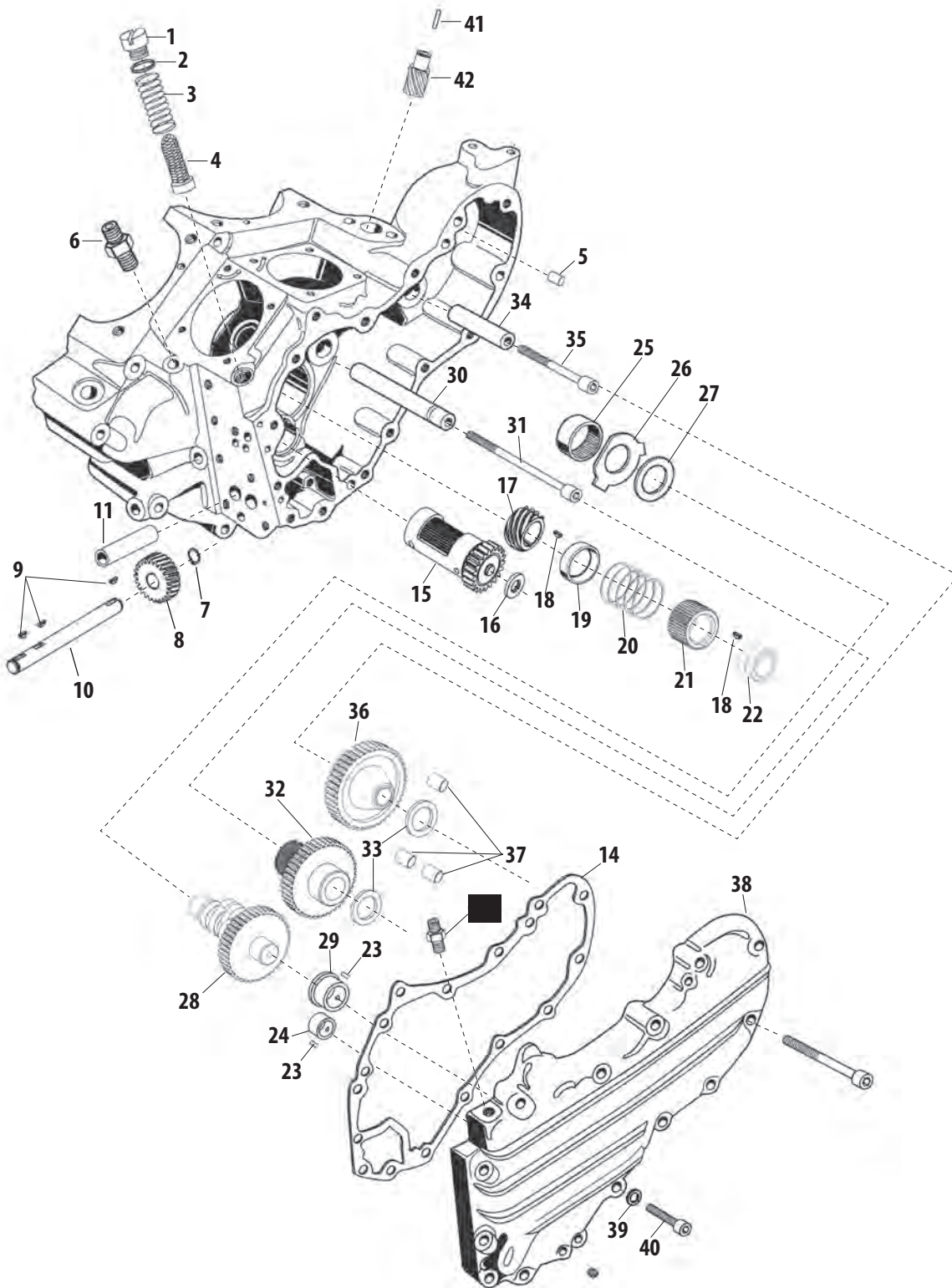
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	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel, 1936 - '99	—	25558-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .095", Steel, 1936 - '99	—	25559-79	—
28	Cam, 346, 1936 - '47 OHV	614-36	25522-36	106-3676
	Cam, 1948 - '52 61" OHV	614-48A	25524-48	—
	Cam (H-Grind), 1948 - '57 See chart for other Cam options	614-48	25523-48, 25523-56	330-0164
	Cam (H-Grind), 1958-'69 See chart for other Cam options	—	25523-69	330-0170
	Cam (H-Grind), 1970 - '77	—	25523-70	330-0165
	Cam (H-Grind), 1978 - '84	—	25523-78	330-0166
29	Bushing, Cam, Bronze, 1936-'69 bt	661-36	25581-36	31-4025
30	Shaft, Circuit Breaker Drive Gear, 1936-'69 bt, 1936 - '69	—	25856-36	31-2037
31	Screw, Left Hand Thread, Late 1959 - '69	—	1430	—
	Screw, 1936 - E'59	637-36A	25859-36	—
32	Gear, Assembly, Circuit Breaker, Packaged, 1936-'69 bt	—	25850-36A	33-4215
33	Spacer, Idler And Circuit Breaker Gear (2), 1941 - 69 - FL, FLH See chart for Shim size options	—	25800-36	—
34	Shaft, Idler Gear, .5556" x 1.8760", AISI 8620H, 1936-'69 bt	637-36B	25791-36	31-2039
35	Screw, SHCS, 1/4-20 x 2", Zinc, ASTM A574-92A, 1936 - '69	—	25794-36	50-0013
36	Gear, Idler, Packaged, 1936-'69 bt	619-36	25775-36	33-4216
37	Bushing, Idler Gear (3), 1930 - '69	—	25785-30A	—
38	Gearcover, Ribless Notched & Riveted Early 1936	584-36	25216-36	—
	Gearcover, Ribless Riveted Mid 1936	584-36	25216-36	—
	Gearcover, Ribless Late 1936 - '39	584-36	25216-36	—
	Gearcover, 8 Rib Bossless Early & Mid 1940	584-36	25216-36	—
	Gearcover, 8 Rib Late 1940 - E'48 (Includes Hardware)	584-48	25216-48	—
	Gearcover, 8 Rib 1940 - E'48 (Includes Hardware) See chart for compatible Gearcover Kit	584-48	25216-48	—
	Gearcover, 8 Rib Late 1948 - '53 (Includes Hardware) See chart for compatible Gearcover Kit	584-48	25216-48	—
	Gearcover, 4 Rib 1954 - '62 (Includes Hardware) See chart for compatible Gearcover Kit	25216-54	25216-58	—
	Gearcover, 4 Rib Outside Oiler 1963 - '64	—	25216-63	—
	Gearcover, Flat Side, Outside Oiler 1965 (Includes Hardware) See chart for compatible Gearcover Kit	—	25216-65	—
	Gearcover, Flat Side 1966 - '69 (Includes Hardware) See chart for compatible Gearcover Kit	—	25216-66	—
39	Washer, 1/4", (12), Early 1936 Only	—	—	—
40	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadmium Plated, each	056	2341HW	106-2013
	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadmium Plated, 12 Pack	—	—	106-2087
41	Pin, Roll, Coiled 7/64" diameter, .120" x .500", Steel See chart for 1/8" diameter option	—	255	50-8025
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt See chart for compatible Circuit Breaker Gear	056, 1547-36	32531-36	—
43	Oil Feed Pipe Nipple, 1942-'47 OHV	95-42A	17330-42	106-4734

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
1	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel each	31-6021
	Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel 5 Pack	31-7005
2	O-ring, (-013), .437" ID x .565" OD, Viton®	50-8008
8	Gear, Pinion, Oil Pump Drive, 24 Tooth, 1936-'69 bt	33-4230
15	Gear, Kit, Breather, 1948-E'77 bt	33-4253
	Gear, Kit, Breather, +.030", 1948-E'77 bt	33-4263
21	Gear, Pinion, Packaged, Orange, 1954-E'77 bt	33-4121
	Gear, Pinion, Packaged, Black, 1954-E'77 bt	33-4122
	Gear, Pinion, Packaged, Red, 1954-E'77 bt	33-4123
	Gear, Pinion, Packaged, Blue, 1954-E'77 bt	33-4124
	Gear, Pinion, Packaged, White, 1954-E'77 bt	33-4126
	Gear, Pinion, Packaged, Brown, 1954-E'77 bt	33-4127
	Gear, Pinion, Packaged, Yellow, 1954-E'77 bt	33-4128
28	Camshaft, 450S, 1948-'69 bt	33-5062
	Camshaft, Assembly, FB300, 1948-'69 bt, Crane Cams®	1-0100
33	Shim, Circuit Breaker/Idler Gear, .050"	33-4221
	Shim, Circuit Breaker/Idler Gear, .054"	33-4222
	Shim, Circuit Breaker/Idler Gear, .058"	33-4223
	Shim, Circuit Breaker/Idler Gear, .062"	33-4224
	Shim, Circuit Breaker/Idler Gear, .066"	33-4225
38	Gearcover, Kit, Generator, KN-Series, Ribbed, Stock Pinion Shaft, Natural, 1940-'47 bt	106-3198
	Gearcover, Kit, Generator, P-Series, Ribbed, Stock Pinion Shaft, Natural, Late 1948-'53 bt	106-3499
	Gearcover, Kit, Generator, Bushing Style, Stock Style Case, Natural, Cast, 1954-'69 bt	31-0240
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1965 bt	106-1619
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1966-'69 bt	106-1625
41	Pin, Roll, 1/8" Diameter, .138" x .500", Steel	50-8030
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt	33-4217



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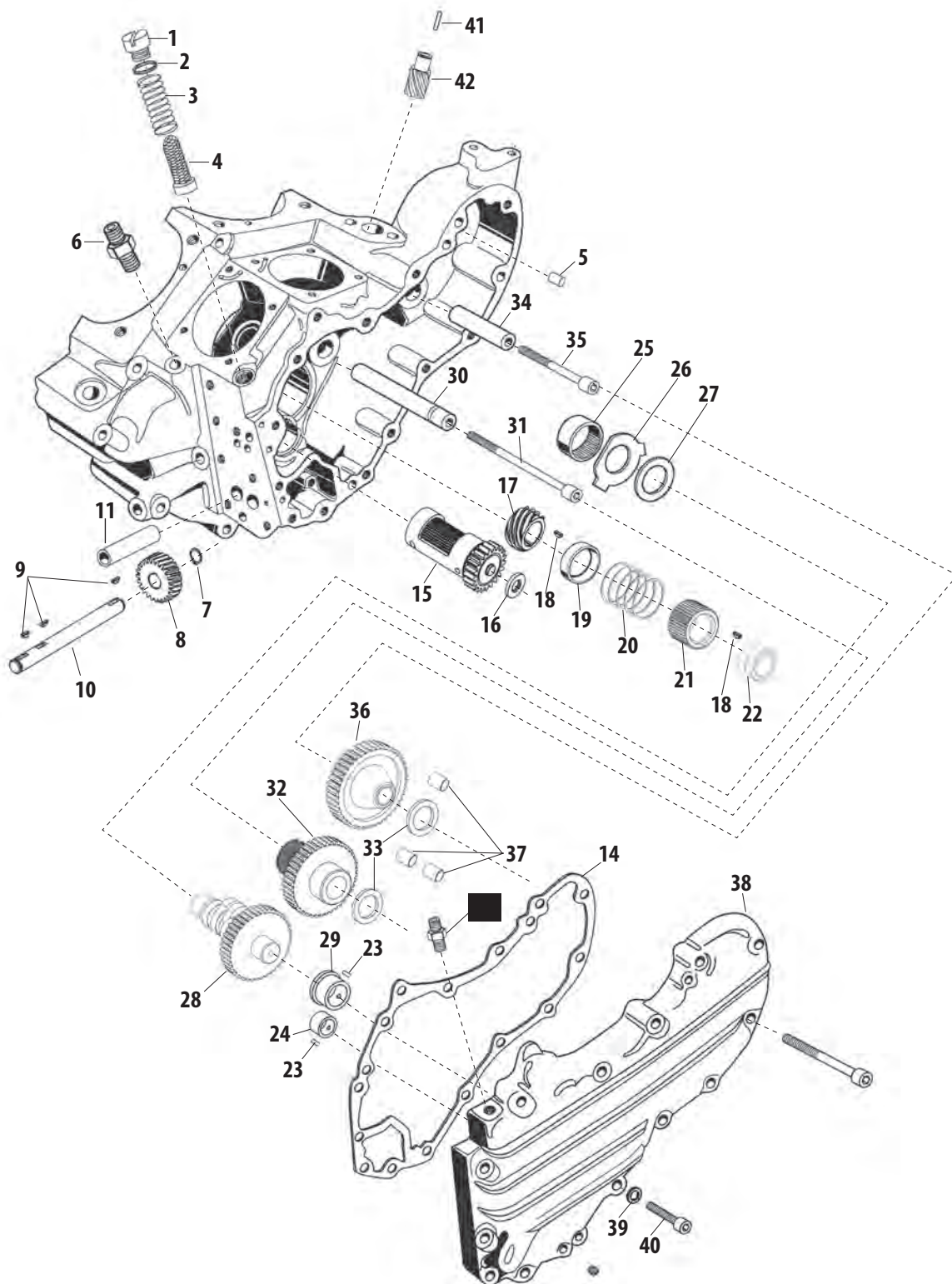
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1	Motor Fastening Bolt, Rear (2) 1936-'49	438-36	24794-36	—
	Bolt, 3/8-24 x 3-1/2 Hex. Hd. (2), 1941-'84	—	4435W	—
2	Washer, Motor Fastening Bolt Washer (3) 1936-'49	0224	6395	—
	Washer, 3/8 x 13/16 x 1/16 (2), 1941-'70	—	6701	—
	Washer, 3/8 x 13/16 x 7/64 (4), 1963-'84	—	6400HB	—
3	Nut, 3/8-24 x 15/32 x 9/16 Hex. (4), 1936-'66	0128	7809	—
4	Cotter Pin, (3), 1936-'49	0291	528	—
	Cotter Pin, 3/32 x 5/8 (4), 1941-'66	—	534	—
5	Motor Bolt Nut (1) 1937-'49	439-36	24797-36	—
6	Motor Bolt Lock Washer (1) 1937-'49	439-36A	24800-36	—
7	Motor Fastening Bolt, Front (2) 1937-'72	437-36	24791-36	—
8	Plug, Timing Hole, 1938-'69	2326-38	704	—
9	Drain Plug, 1937-'70	453-11	700	—
10	Nut, Crankcase Stud Nut (13) Crankcase Guard Rear Bolt Nut, (2) 1937-'49	0117	7752	—
	Nut, 5/16-24 x 1/4 x 1/2 Hex. 1941-Early '81; 1982-'84	0117W	7753	—
11	Crankcase Stud 5/16" x 5-7/8" 1948-'49	447-48	24807-48	—
12	Crankcase Stud 5/16" x 5-7/16" 1948-'49 See chart for compatible Crankcase Stud	447-36	24806-36	—
13	Crankcase Breather Pipe Assembly 1948-'57 See chart for compatible Crankcase Breather Tube	543-48	24912-48	—
	Crankcase Breather Pipe Assembly 1958-'63 See chart for compatible Crankcase Breather Tube	—	24914-58	—
	Crankcase Breather Pipe Assembly 1964 See chart for compatible Crankcase Breather Tube	24912-48	24912-48A	—
14	Crankcase Stud, 5/16" x 6" (3) 1930-'49 See chart for compatible Crankcase Stud	447-30	24809-30	—
	Crankcase Stud, 11/32 x 5-27/32 (F Position), 1948-'78	—	24815-40	—
15	Crankcase Bolt 3/8" x 3-3/4" (1) 1930-'49	444-30	4432	—
	Crankcase Bolt, 3/8-16 x 3-1/4 hex. hd. (2), 1930-'78	444-30	4432W	—
16	Crankcase bearing spring ring (2) 1940-'49	423-40	24702-40	—
17	Sprocket Shaft Bearing End (1) 1940-'54	421-40	24776-40	—
	Spacer, Sprocket .Shaft - 0.336 Thick, 1955-'64	—	24029-55	—
	Spacer, Drive Sprocket, Fatigue Proof, 1936-'64 bt	—	—	31-4014
18	Left Bearing Bushing, Standard 1940-'54	416-40	24621-40	—
	Left Bearing Bushing, +.002 O.S. 1940-'54	416-40B	—	—
	Left Bearing Bushing, +.005 O.S. 1940-'54	416-40C	—	—
	Left Bearing Bushing, (Timken®), 1955-'68	—	9029	—
19	Sprocket Shaft Bearing Washer (1) 1940-'54	422-40	24779-40	—
	Shim, Sprocket Shaft Bearing - 0.003, 1955-'68	—	23741-55	—
20	Left Roller Bearing Retainer (2) 1930-'54	417-30	24721-30	—
21	Left Bearing Roller (24) 1/4" x .490 Long Standard 1930-'54	2289-25	9220	—
	Left Bearing Roller (24) 1/4" x .490 Long .0002" O.S. 1930-'54	2289-25D	9221	—
	Left Bearing Roller (24) 1/4" x .490 Long .0004" O.S. 1930-'54	2289-25F	9222	—
	Left Bearing Roller (24) 1/4" x .490 Long .0006" O.S. 1930-'54	2289-25H	9223	—
	Left Bearing Roller (24) 1/4" x .490 Long .0008" O.S. 1930-'54	2289-25KA	9224	—
	Left Bearing Roller (24) 1/4" x .490 Long .0010" O.S. 1930-'54	2289-25MA	9225	—
22	Sprocket Shaft Bearing Spacer (1) 1937-'54	358-36	24781-36	—
23	Sprocket Shaft Bearing Complete, Standard, 1930-'54	419-30	24750-30	—
	Sprocket Shaft Bearing Complete, +.0002 O.S. 1930-'54	419-30D	24751-30	—
	Sprocket Shaft Bearing Complete, +.0004 O.S. 1930-'54	419-30F	24752-30	—
	Sprocket Shaft Bearing Complete, +.0006 O.S. 1930-'54	419-30H	24753-30	—
	Sprocket Shaft Bearing Complete, +.0008 O.S. 1930-'54	419-30KA	24754-30	—
	Sprocket Shaft Bearing Complete, +.0010 O.S. 1930-'533	419-30MA	24755-30	—
24	Washer, Right Bearing (1) 1940-'57	425-40	24695-40	—
	Washer, Right Bearing (2) 1958-'84	—	24692-58	—
25	Retainer, Right Roller Bearing (2) 1937-'57	415-36	24646-36	—
	Retainer, Right Roller Bearing (2) 1958-'84	3967-35	43578-35	—
26	Roller, Right Bearing (12) 1/4" x .600 Long Standard 1937-'57	306-26	9261	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0002" O.S. 1937-'57	306-26D	9262	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0004" O.S. 1937-'57	306-26F	9263	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0006" O.S. 1937-'57	306-26H	9264	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0008" O.S. 1937-'57	306-26KA	9265	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0010" O.S. 1937-'57	306-26MA	9266	—
	Roller, Right Bearing, 0.250 x 0.490 Long Standard (28) 1958-'81	—	9220A	—
	Roller, Right Bearing, +.0001 O.S. (28) 1958-'84	—	9219	—
	Roller, Right Bearing, +.0002 O.S. (28) 1958-'84	—	9221A	—
	Roller, Right Bearing, +.0003 O.S. (28) 1958-'84	—	9218	—
	Roller, Right Bearing, +.0004 O.S. (28) 1958-'84	—	9222A	—
	Roller, Right Bearing, +.0005 O.S. (28) 1958-'84	—	9217	—



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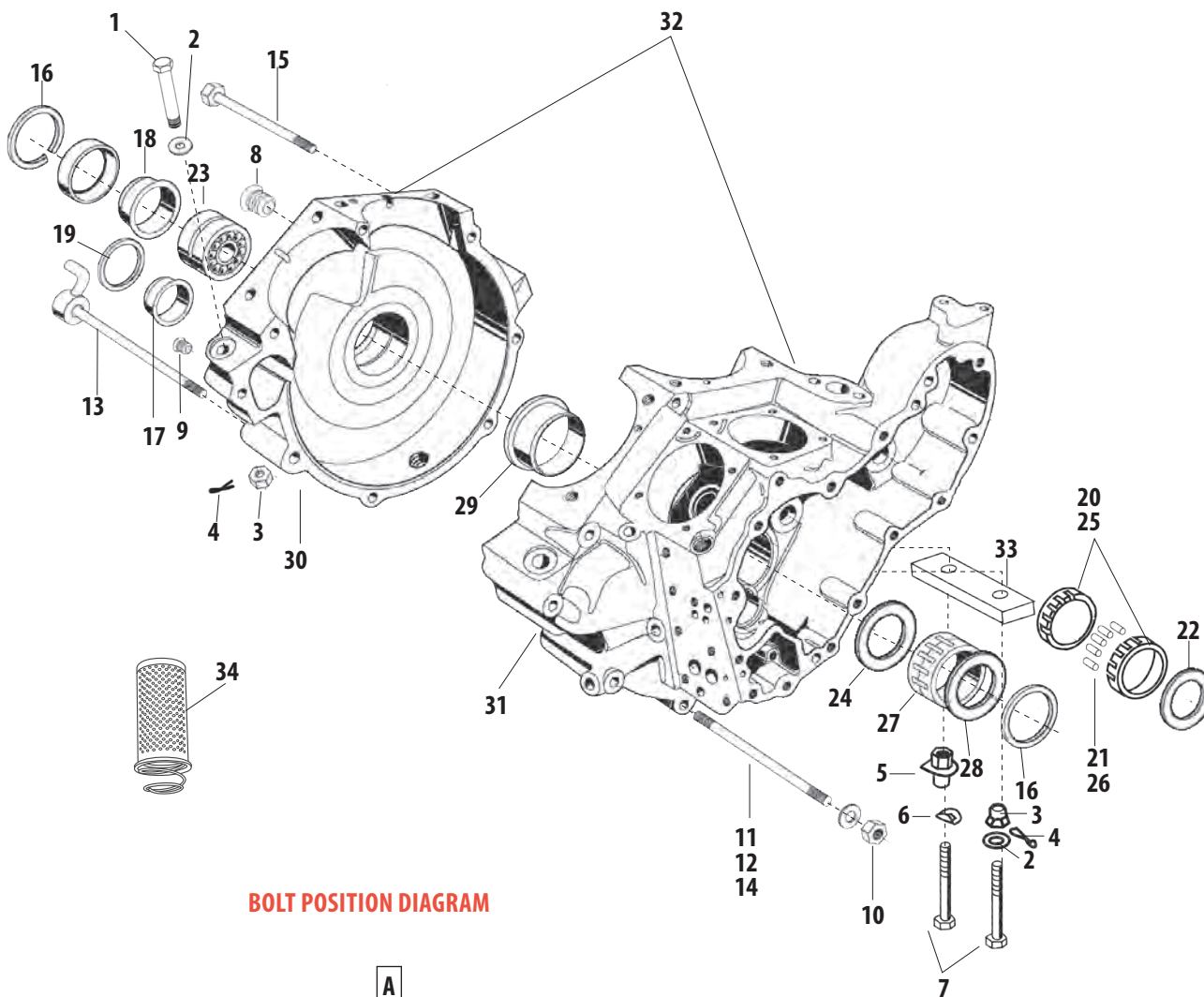
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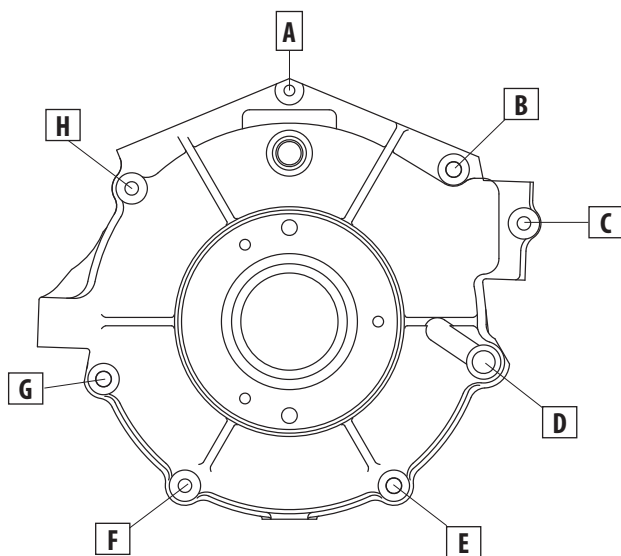
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CRANKCASE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® PANHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
	Roller, Right Bearing, +.0006 O.S. (28) 1958-'84	—	9223A	—
	Roller, Right Bearing, +.0008 O.S. (28) 1958-'84	—	9224A	—
	Roller, Right Bearing, +.0010 O.S. (28) 1958-'84	—	9225A	—
27	Right Bearing, Complete, Standard 1937-'57	414-36	24650-36	—
	Right Bearing, Complete, +.0002 O.S. 1937-'57	414-36D	24651-36	—
	Right Bearing, Complete, +.0004 O.S. 1937-'57	414-36F	24652-36	—
	Right Bearing, Complete, +.0006 O.S. 1937-'57	414-36H	24653-36	—
	Right Bearing, Complete, +.0008 O.S. 1937-'57	414-36KA	24654-36	—
	Right Bearing, Complete, +.0010 O.S. 1937-'57	414-36MA	24655-36	—
	Right Bearing, Standard 1958-'81	—	24650-58	—
	Right Bearing, +.0001 O.S. 1958-'84	—	24650-81	—
	Right Bearing, +.0002 O.S. 1958-'84	—	24651-58	—
	Right Bearing, +.0003 O.S. 1958-'84	—	24649-81	—
	Right Bearing, +.0004 O.S. 1958-'84	—	24652-58	—
	Right Bearing, +.0005 O.S. 1958-'84	—	24645-81	—
	Right Bearing, +.0006 O.S. 1958-'84	—	24653-58	—
	Right Bearing, +.0008 O.S. 1958-'84	—	24654-58	—
	Right Bearing, +.0010 O.S. 1958-'84	—	24655-58	—
28	Washer, Right Bearing (Gear Side) (1) 1940-'57	414-40	24690-40	—
	Washer, Right Bearing (Gear Side) (2) 1958-'84	—	24692-58	—
29	Bushing, Right Crankcase (1) Standard 1940-'57	413-40A	24599-40	—
	Bushing, Right Crankcase (1) +.002 O.S. 1940-'57	413-40AB	24600-40	—
	Bushing, Right Crankcase (1) +.005 O.S. 1940-'57	413-40AC	24601-40	—
	Bushing, Right Crankcase, Standard, 1958-'84	—	24599-58B	—
	Bushing, Right Crankcase, +.002 O.S. O.D., 1958-'84	—	24600-58A	—
	Bushing, Right Crankcase, +.005 O.S. O.D., 1958-'84	—	24601-58B	—
	Race, Right, Main Bearing, +.030", 1958-'99 bt	—	—	31-4030
30	Left Crankcase 1940-1947 61" OHV	406-40A	406-40A	—
	Left Crankcase 1941-1947 OHV	406-41	24540-41	—
	Left Crankcase 1948 and 1949 OHV	406-48	24540-48	—
31	Right Crankcase 1940-1947 61" OHV	410-40A	410-40A	—
	Right Crankcase 1941-1947 OHV	410-41	24569-41	—
	Right Crankcase 1948 and 1949 OHV	410-48	24569-48	—
32	Set of Crankcases 1936-1939 OHV See chart for complete Crankcase Assembly	403-36	403-36	—
	Set of Crankcases 1940 OHV See chart for complete Crankcase Assembly	403-40	403-40	—
	Set of Crankcases 1941-1947 OHV See chart for complete Crankcase Assembly	402-41	24520-41	—
	Set of Crankcases 1948-Early '52 OHV See chart for complete Crankcase Assembly	402-48	24520-48	—
	Set of Crankcases Mid-Late 1952 OHV (added right side boss for oil screen & check valve) See chart for complete Crankcase Assembly	402-48	24520-48	—
	Set of Crankcases 1953-1954 OHV (no deck oil troughs & added right race lock) See chart for complete Crankcase Assembly	—	24520-53	—
	Set of Crankcases 1955-1957 OHV (added timken left and 2" right bearings) See chart for complete Crankcase Assembly	—	24519-55	—
	Set of Crankcases 1958-1962 OHV (No gen strap boss, gen mounting bolt-5/16" & added 2.13" right bearing) See chart for complete Crankcase Assembly	—	24519-58	—
	Set of Crankcases 1963-1964 OHV (External top end oiling, no case deck oiling) See chart for complete Crankcase Assembly	—	24519-63	—
	Set of Crankcases 1965 OHV (Left Aluminum primary, no breather bolt, no right relay plate boss) See chart for complete Crankcase Assembly	—	24519-65	—
33	Spacer, Front, Motor Mount, 1948-'65 OHV bt	—	24795-48	31-2017
34	Filter, Oil, Perf-form®, Drop In, 1958-E82 bt, 1953-'73 xl	—	63840-53, 63826-53	31-0284

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
12	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel	31-2003
13	Tube, Crankcase Breather, Powdercoated, Gloss Black, Steel, 1936-'69 bt	106-4795
14	Stud, Crankcase Alignment, 5/16-24 UNF x 6.050", Zinc, Steel	31-2034
29	Race, Right, Main Bearing, Standard, 1958-'99 bt	31-4004
	Race, Right, Main Bearing, +.005"	31-4007
32	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1936-'47	31-0006
	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1948-'64	31-0008
	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1965-'69	31-0010



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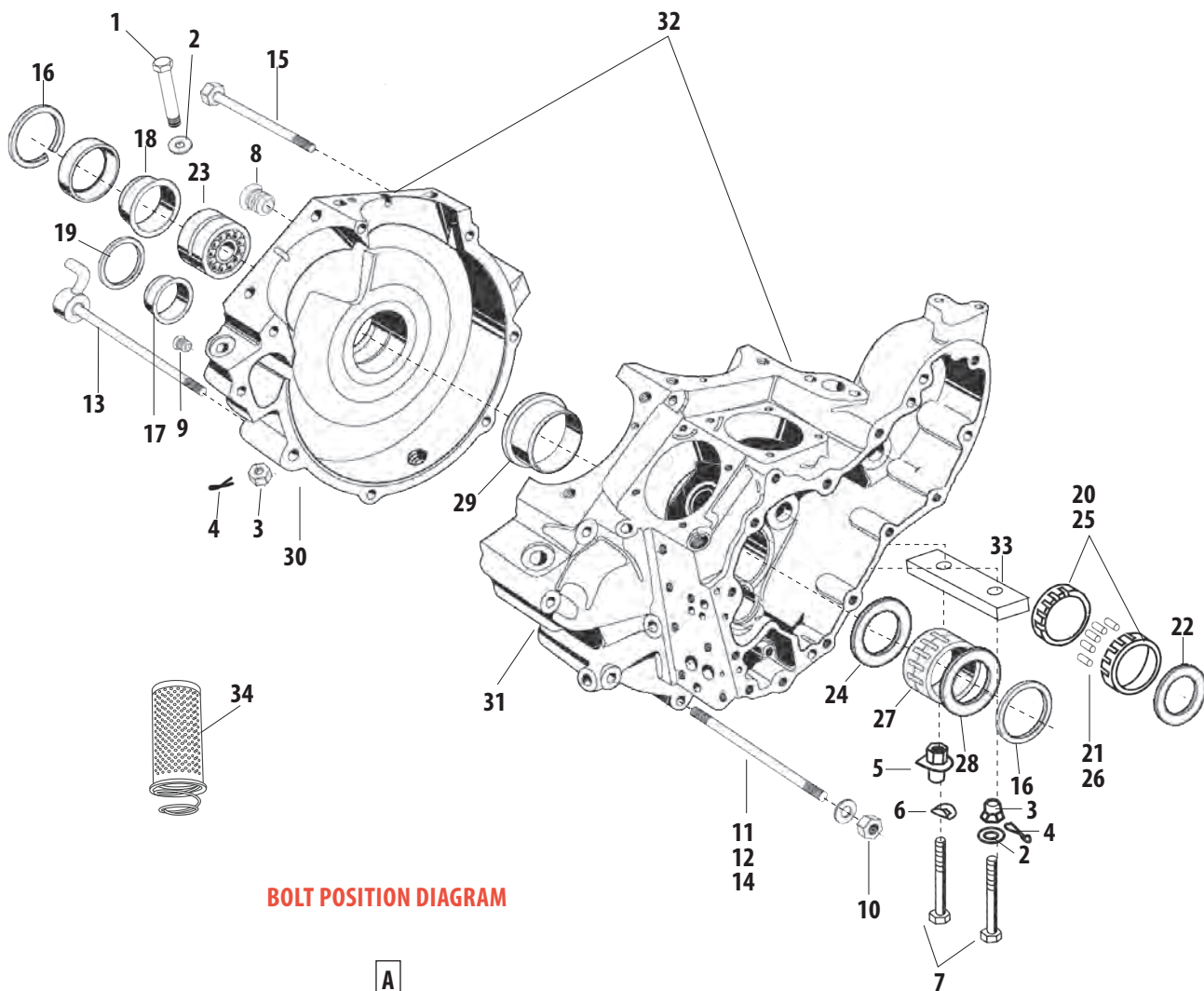
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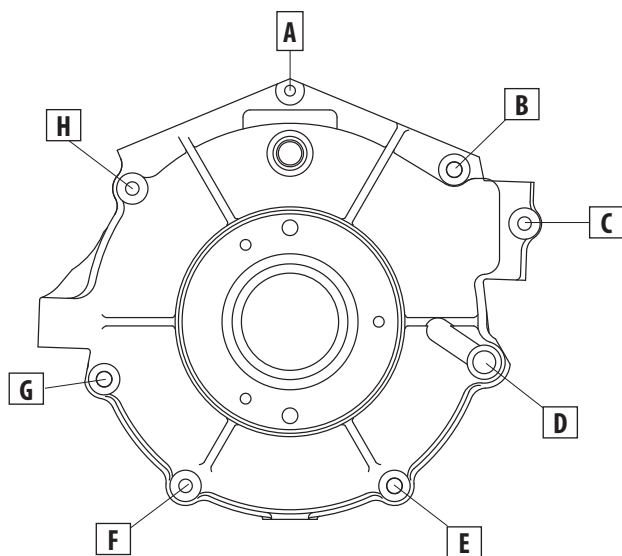
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KICKER FOR HARLEY-DAVIDSON® PANHEAD MODELS (AND KNUCKLEHEAD & FLATHEAD)

Parts for
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Bolt, 3/8-24 x 1-1/8 Hex. Hd, 1940-'69	2100-16	4336W	—
2	Lockwasher, 3/8, 1940-'69	—	7038	—
	Lockwasher, Late 1930-'49	0261	7045	—
3	Bushing, Pedal Pin, Late 1930-'69	2101-31	33213-31	—
4	Washer, Pedal Pin, Late 1930-'69	2102-30	33215-30	—
5	Starter Pedal, Complete (Black Rubber), 1940-'67	—	33175-16A	—
	Starter Pedal, Complete (Black Rubber), Late 1929-'49	2091-16A	33175-16	—
	Starter Pedal Plastic Complete (Red), 1929-'49	2091-16C	33176-16	—
	Starter Pedal Plastic Complete (Yellow), 1929-'49	2091-16D	33177-16	—
6	Pedal Cover, Starter (Black), 1963-'67	—	33182-63A	—
	Pedal Rubber (2), Starter (Black), 1917-'49	2092-17	33182-17	—
	Pedal Block Plastic (1), Starter (Red), 1945-'49	2092-45C	33183-45	—
	Pedal Block Plastic (1), Starter (Yellow), 1945-'49	2092-45D	33184-45	—
7	Axle Plate, Starter Crank Pedal, 1963-'69	—	33202-63	—
	Axle, Starter Crank Pedal, 1929-'49 (Rubber Pedal)	2095-16	33195-45	—
	Axle, Starter Crank Pedal, Late 1945-'49 (Plastic Pedal)	2095-45	33192-16	—
8	Starter Crank, Only (Black), 1954-'69	—	33068-54	—
	Starter Crank, 1937-'53	2076-36	33063-36	—
9	Bolt, 3/8-24 x 1-3/4 Hex. Hd, 1940-'69	—	4411	—
10	Starter Crank Shaft, 1954-'69	—	33096-54B	—
11	Stud, Starter Spring W/Spring Cover Screw Hole, 1937-'69	—	33152-59	—
	Stud, Starter Spring, 1937-'49	2086-36	33090-36	—
12	Spring, Starter Crank, 1940-69	2084-36	33085-36	—
13	Washer, Starter Crank, 1940-69	2077-36	33080-36	—
14	Upper Bushing, Starter Cover, 1940-69	—	33291-36	106-6474
15	Lower Bushing, Starter Cover, 1940-69	—	33290-38	106-6473
16	O-Ring, 1941-'69	—	11101	—
	Starter Crank Oil Seal, Late 1937-'49	2078-37	33076-37	—
17	Bushings, Pair, Starter Cover, 1941-'69	2127-37A	33288-37	—
18	Nut, 5/16-24 x 1/4 x 1/2 Hex. (9), 1940-'69	0117W	7753	—
19	Washer, 11/32 x 11/16 x 1/16 (9), 1940-'69	—	6016	50-7034
	Washer, (9), 1937-'49	0214	6320	50-7034
20	Starter Cover, Transmission, 1940-'47 (G6 Date Code)	2126-36	33277-36A	106-6479-G6
	Starter Cover, Transmission, 1948-'50 (J7 Date Code)	2126-36	33277-36A	106-6479-J7
	Starter Cover, Transmission, 1937-'86 (Universal with No Date Code)	2126-36	33277-36A	106-6479-00
21	Gasket, Starter Cover, 1940-'69	2132-36	33295-36	560-0012
22	Filler Plug, Starter Cover, 1940-'69	—	37072-79	—
	Filler Plug Hex, Starter Cover, 1937-'49	2326-36	704	—
23	Nut, 5/8-18 x 1/4 x 9/16 Hex, 1937-'69	2274-36	7977	—
24	Key, Starter Clutch (2), 1916-'69	2147-16	33393-50	—
25	Lockwasher, Starter Clutch, 1939-'69	2149-39	33396-39	—
26	Starter Clutch, 1939-'69	2146-39	33381-39	—
27	Pin, Starter Crank Gear, 1939-'69	2143-36A	33355-36	—
28	Cam Plate, Starter Crank Gear, 1939-'69	2143-36B	33358-36	—
29	Gear, Starter Crank - 24 T, 1939-'69	2144-36	33350-36	—
30	Rivet, 3/16 x 5/32 (3), 1939-'69	0312	8241	—
31	Starter Gear, Mainshaft - 16 T., 1939-'49	2155-36	33430-36	—
	Starter Gear, Mainshaft - 16 T., 1967-'69	—	33430-50	—
	Starter Gear, Mainshaft - 14 T., Late 59-'66	—	33430-59	—
32	Bushing, Mainshaft Starter Gear, 1931-Early '50	2155-31A	33436-31	—
	Bushing, Mainshaft Starter Gear, Late 50-'69	—	33438-50	—
33	Spring, Starter Clutch, 1940-'69	2152-36	33391-36	—
34	Lockwasher, Starter Crank (2), 1916-'69	2080-16	33082-16	—
35	Nut, 1/2-20 x 7/16 x 7/8 Hex, 1937-'69	2079-36	7911	—
36	Stud, Starter Cover (9), 1937-'69	2134-36	33298-65	—
37	Screw, No. 10-24 x 7/16 Pozidriv Hd, 1940-'69	—	2664	—
38	Lockwasher, No. 10 External Tooth, 1940-'69	—	7220	—
39	Spring Cover Kit, Complete, 1940-'69	—	33150-59	—



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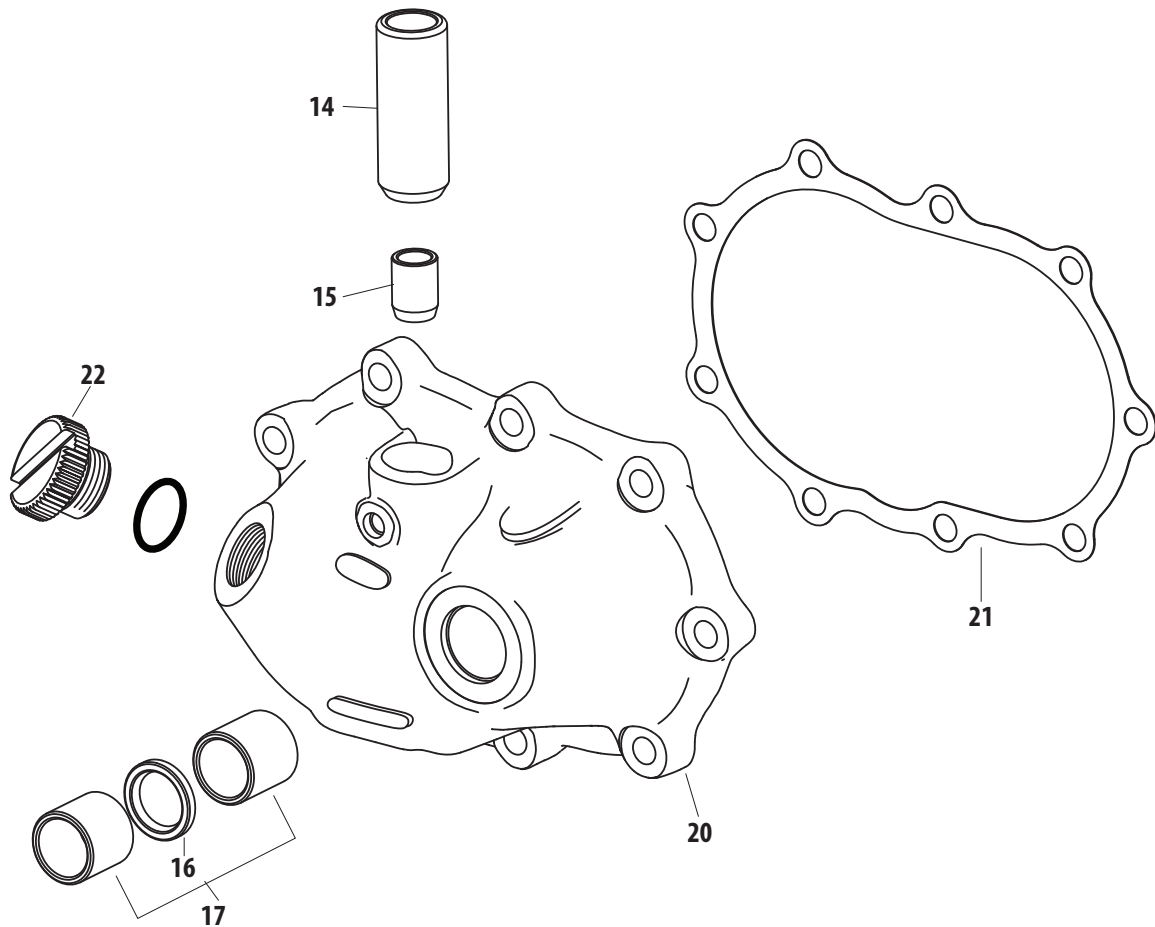
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OIL PUMP REPLACEMENT PARTS FOR HARLEY-DAVIDSON® PANHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Nut, No. 10-32 x 1/8 x 5/16 Hex. (Brass), 1964 - '84	—	7634	—
2	Lockwasher, #10, 1964 - '84	—	7069	—
3	Terminal, Oil Pressure Switch, Late 63 - 67	—	26560-63	—
4	Oil Pressure Switch Only, 1941 - '84	—	26552-72	—
	Oil Pressure Switch, 1936 - '49	480-39	26551-39	—
5	Fitting, Oil Pressure Switch, 1958 - '67	—	26569-58	—
6	Nut, 1/4-24 x 5/32 x 5/16 Hex., 1950 - '79	—	7691W	—
7	Lockwasher, 1/4, 1936 - '84	0256, 362	7035, 7036	50-7019
8	Washer, 3/8 x 5/8 x 1/32, Late 1950 - '84	—	6377	—
9	Fitting, Pump Cover, 1950 - '64	—	26424-50	—
10	Oil Pump Mounting Stud Nut, 1941 - '49	591-41A	24831-41	—
11	Fitting, Oil Line Hose, 1965 - '67	—	63540-62	—
12	Cover, Oil Pump, 1936 - '40	682-36	—	—
	Cover, Oil Pump, 1941 - '48 Non Chain Oiler	682-41	26236-41	—
	Cover, Oil Pump, 1941 - '48 Chain Oiler	682-41A	—	—
	Cover, Oil Pump, 1950 - '64	—	26237-50	—
	Cover, Oil Pump, 1965 - '67	—	UNKNOWN	—
13	Gasket, Oil Pump Cover, 1941 - '49	684-41	26255-41	—
	Gasket, Oil Pump Cover, 1950 - '67	—	26257-50A	—
14	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>each</i>	695-36	26348-36	50-8058
	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>10 Pack</i>	—	—	50-8106
15	Drive Gear, 1936 - '84 ('36-'67 Scavenge, '68-'84 Feed)	—	26328-74	31-6015
	Scavenger Pump Drive Gear, 1936 - '49 (Keyslot Only)	690-36	26320-36	31-6015
	Scavenger Pump Drive Gear, 1941 (Groove & Keyslot)	690-41	—	31-6015
16	Scavenger Pump Idler Gear, 1936 - '40 (23/64" Id) (Inner Notch & No Rotor Drive Slot)	691-36	26325-36	—
	Scavenger Pump Idler Gear, 1942 - '48 (23/64" Id)(Rotor Drive Slot & No Inner Notch)	691-42	—	—
	Scavenger Pump Idler Gear, 1941 - Mid '62 (23/64" Id) (Notch & Rotor Slot-Retrofit - '36)	691-49	26325-49	—
	Idler Gear, Late 1962 - '84 (7/16" Id) (L'62-'67 Scavenge, '68-'99 Feed)	—	26326-62A	31-6016
17	Idler Shaft, 1936 - '40	697-36	—	—
18	Fitting, Oil Line (Short), 1948 - '64	3577-15	63533-15	—
19	Adjusting Screw, Chain Oiler (Hex Hd.) 1941 '64; 1968 - Early '72	—	63610-70	31-6026
	Adjusting Screw, Chain Oiler (Slot Hd.) 1933 - Early '49	672-32	26383-32	31-6026
20	Washer, 13/64 x 3/8 x 1/32 (Brass) 1933 - '69	0202	6150, 6156	50-7008
	Idler Shaft, 1941 - Mid '62	697-41	26328-41	—
	Idler Shaft, Late 1962 - '67	—	26327-52	—
21	Nut, #10-32 x 1/8 x 3/8 Hex. Hd., 1941 - '64; 1968 & '69	—	7638	50-5000
22	Screw, No. 10-32 x 5/16 Phillips Hd, 1965 - '67	—	1183	—
23	Locknut, No. 10-32 x 3/16 x 3/8 Hex., 1941 - '67	—	7626W	—
24	Screw, Bypass & Check Valve Cover, Late 1952 - Mid '54	—	26423-52A	—
	Screw, Bypass Cover, 1936 - Mid '52 & Late '54 - '67	707-36	26367-36	—
25	Washer, 17/32 x 15/16 x 1/64 (Brass) 1954 - '78	—	6581	—
	Washer, Relief Valve Plug (Felt) 1954 - '80	—	26231-78	—
26	Spring, Relief Valve, .040" Wire, .242" x .324" x 2.32", Astm A-229, 1936 - '84	713-36, 713-42	26374-42, 26374-54, 26207-83	31-6018
27	Valve, Oil Pump, Late 1954 - Early '82	—	26400-54	—
28	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>each</i>	634-15	26347-15, 26348-15	50-8220-5
	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>10 Pack</i>	—	—	50-8229
29	Key, Oil Pump Gear, 1936 - '67	693-36	26340-36	—
30	Drive Shaft, 1936 - '67	638-36	26346-36	—
	Drive Shaft, Oil Pump, .4223" x 4.650", Cold Drawn Steel, Aisi 1146, 1970 - '84	—	26346-70	31-6011
31	Drive Gear, 1936 - '47 (.990 OD x 7/16" ID x .250 Wide)	688-36	26315-36	—
	Drive Gear, 1948 - '67 (.990 OD x 7/16" ID x .380 Wide)	688-48	26315-48	—

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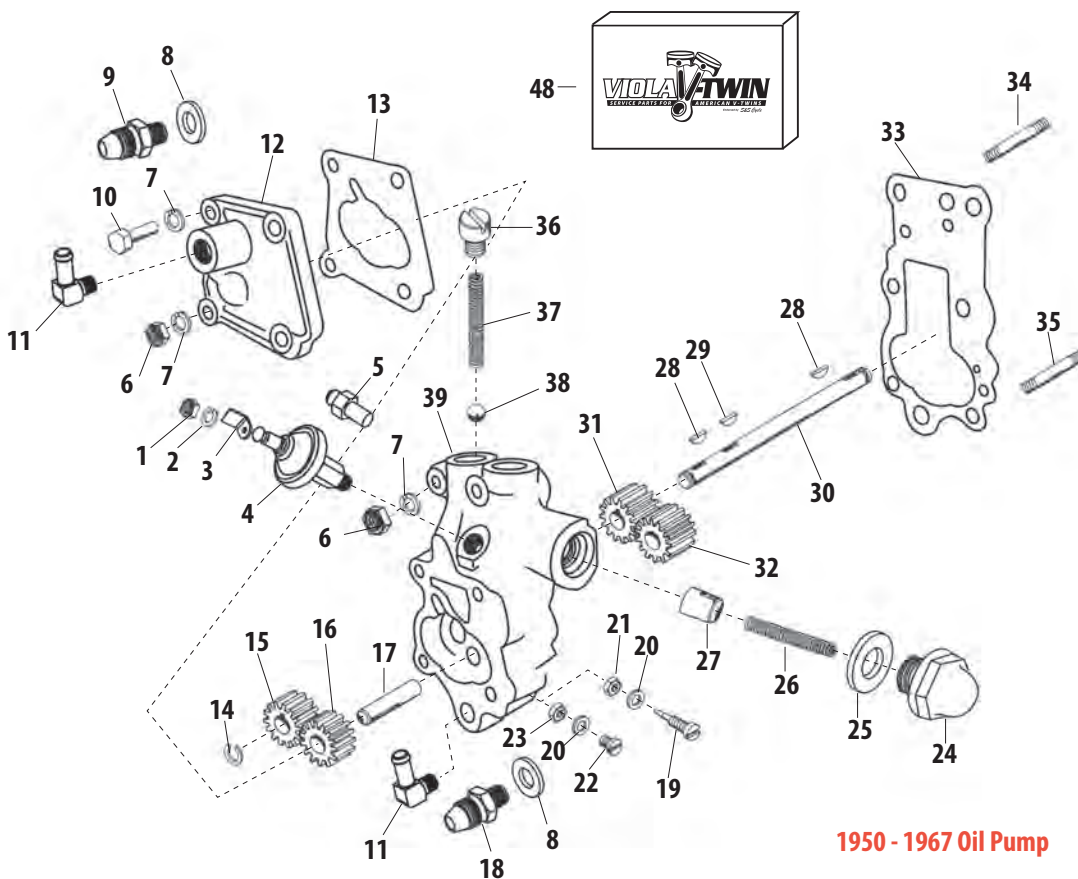
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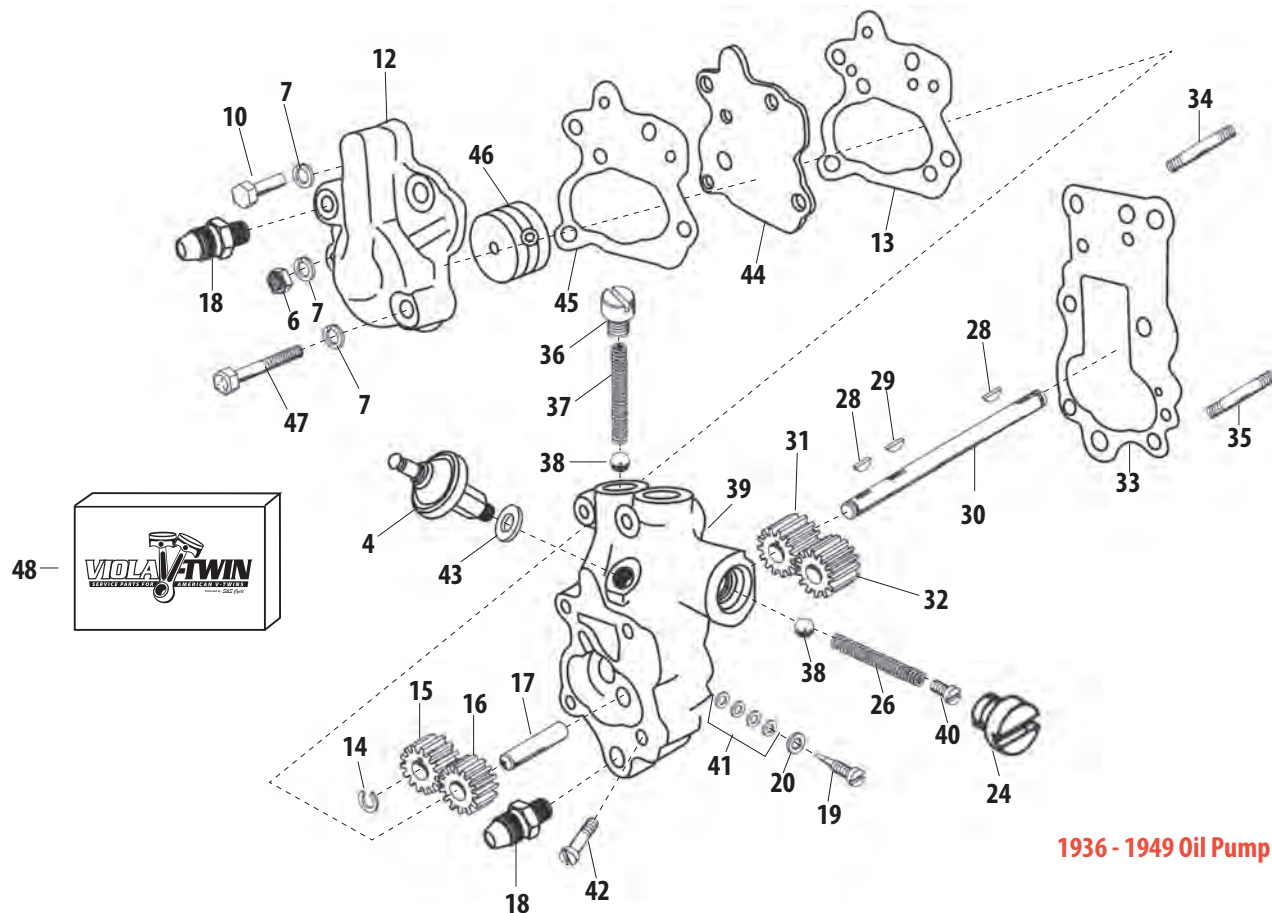
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1950 - 1967 Oil Pump



1936 - 1949 Oil Pump

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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
32	Idler Gear, 1936 - '47 (.990 OD x 23/64" ID x .250 Wide) (w/Crankcase Stub)	689-36	26317-36	—
	Idler Gear, 1948 - '61 (.990 OD x 23/64" ID x .380 Wide) (w/Crankcase Stub)	689-48	26317-48	—
	Idler Gear, 1962 - '67 (.990 OD x 7/16" ID x .380 Wide) (w/o Crankcase Stub)	—	26317-62	—
33	Gasket, Oil Pump Body, 1936 - '40	589-36	26244-36	—
	Gasket, Oil Pump Body, 1941 - '67	589-41	26245-41	—
34	Mounting Stud, 1-11/16, 1941 - '67	591-36	24819-36	—
35	Mounting Stud, 2-1/4, 1941 - '67	591-36A	24820-36	—
36	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>each</i>	701-36	26362-36, 26263-80	31-6021
	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>5 Pack</i>	—	—	31-7005
	Screw, Bypass & Check Valve Cover, Late 1952 - Mid '54	—	26423-52A	—
37	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>each</i>	703-36	26363-36, 26363-56,	31-6022
	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>10 Pack</i>	—	26262-80	31-6092
38	Ball, Check Valve, .375", Stainless Steel 1936 - '84	283	8866, 8873	50-8091
39	Body, Oil Pump, 1936 - '40	678-36	—	—
	Body, Oil Pump, 1941 - '48 (w/o Rear Chain Oiler)	678-41	—	—
	Body, Oil Pump, 1941 - '48 (With Rear Chain Oiler)	678-41A	26217-41	—
	Body, Oil Pump, 1948 - '49	678-48	—	—
	Body, Oil Pump, 1950 - Mid '54 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, Late 1954 - Mid '62 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, Late 1962 - '64 (No Service PN, See Pump Assembly PN)	—	—	—
	Body, Oil Pump, 1965 - '67 (No Service PN, See Pump Assembly PN)	—	—	—
40	Bypass Valve Adjusting Screw, 1937 - '49	711-36	26368-36	—
41	Adjusting Screw Washer .002", 1933 - '49	674-32	6170	—
42	Oil Pump Mounting Screw, 1941 - '49	692-41A	1397	—
43	Nipple Packing Washer, 1946 - '49	2461-36A	6375	—
44	Oil Pump Cover Plate, 1941 - '47	683-41	26250-41	—
	Oil Pump Cover Plate, 1948	683-49A	—	—
	Oil Pump Cover Plate, 1949	683-49	26251-49	—
45	Oil Pump Cover Gasket, 1941 - '49	685-41	26257-41	—
46	Oil Pump Governor Rotor, 1941 - '48	687-41C	26300-41	—
47	Oil Pump Mounting Bolt, 1941 - '49	692-41	3834	—
48	Hardware Kit, Oil Pump Cover, Billet, 1936-'91 bt	—	—	31-6283
	Hardware Kit, Chain Oiler, 1936-'91 bt	—	—	31-6291
	Hardware Kit, Oil Pump Mounting, Billet, 1936-Up bt	—	—	31-6288
49	Oil Pump Assembly, 1936 - '40 <i>See Chart Complete Oil Pump Kit</i>	587-36	25275-36	—
	Oil Pump Assembly, 1941 - '48 (w/o Rear Chain Oiler) (Last Version of the Functional Rotor Cover) <i>See Chart Complete Oil Pump Kit</i>	587-41	26201-41	—
	Oil Pump Assembly, 1941 - '48 (With Rear Chain Oiler) (Last Version of the Functional Rotor Cover) <i>See Chart Complete Oil Pump Kit</i>	587-41A	26201-41A	—
	Oil Pump Assembly, 1948 - '49 (Rotor Style Cover But No Rotor) <i>See chart complete Billet Oil Pump Kit</i>	587-48	26201-48	—
	Oil Pump Assembly, 1950 - Mid '54 (Non-Rotor Cover) <i>See chart complete Billet Oil Pump Kit</i>	587-50	26201-48	—
	Oil Pump Assembly, Late 1954 - Mid '62 <i>See chart complete Billet Oil Pump Kit</i>	587-50	26201-48A	—
	Oil Pump Assembly, Late 1954 - Mid '62 (Pressure Switch Changes) <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48B	—
	Oil Pump Assembly, Late 1954 - Mid '62 (Pressure Switch Changes) <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48C	—
	Oil Pump Assembly, Late 1962 - '64 <i>See chart complete Billet Oil Pump Kit</i>	—	26201-48D	—
	Oil Pump Assembly, 1965 - '67 <i>See chart complete Billet Oil Pump Kit</i>	—	26201-65	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
49	Oil Pump, Kit, Universal, Silver Powdercoat, Billet, 1936-'69 bt	106-4688
	Oil Pump, Kit, Universal, Polished, Billet, 1936-'69 bt	31-6200
	Oil Pump, Kit, Universal, Polished, Billet, 1970-'91 bt ('73-E'81 req case mod - drill jig 53-0013)	31-6203

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1984-1999

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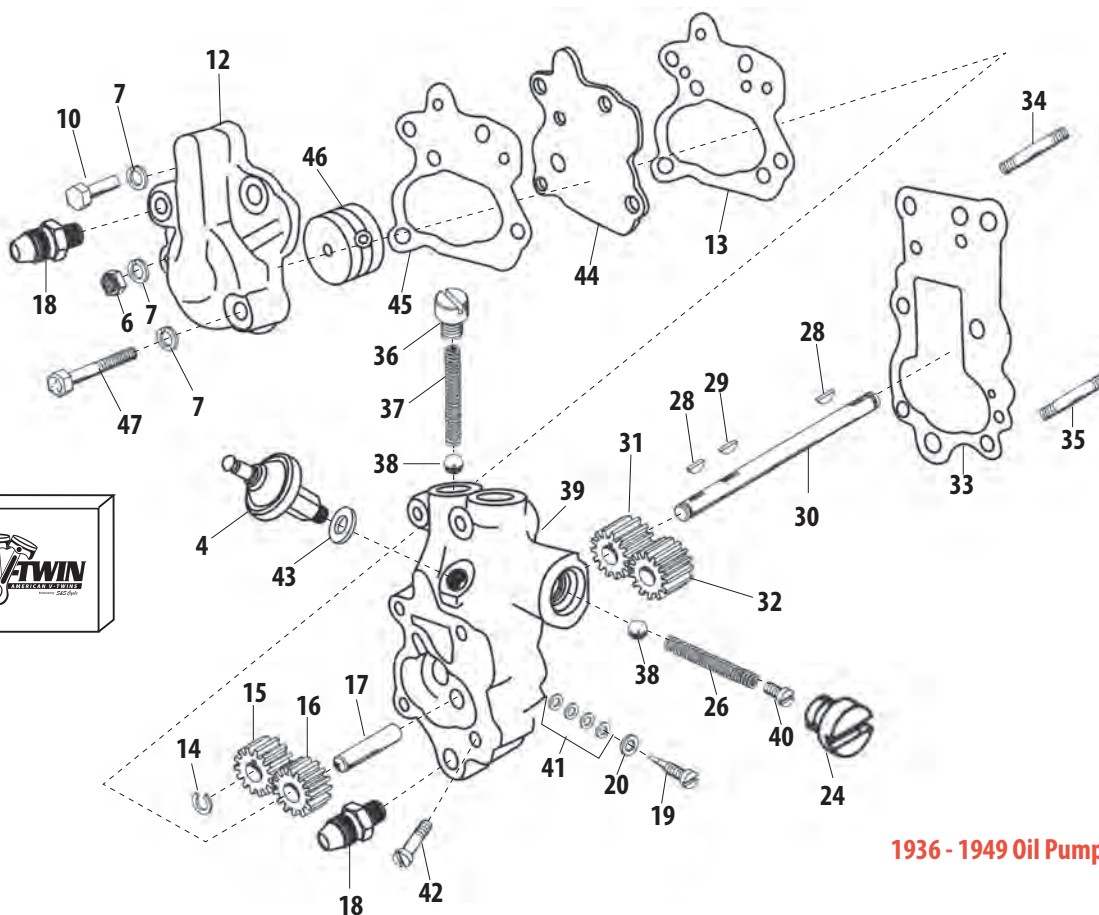
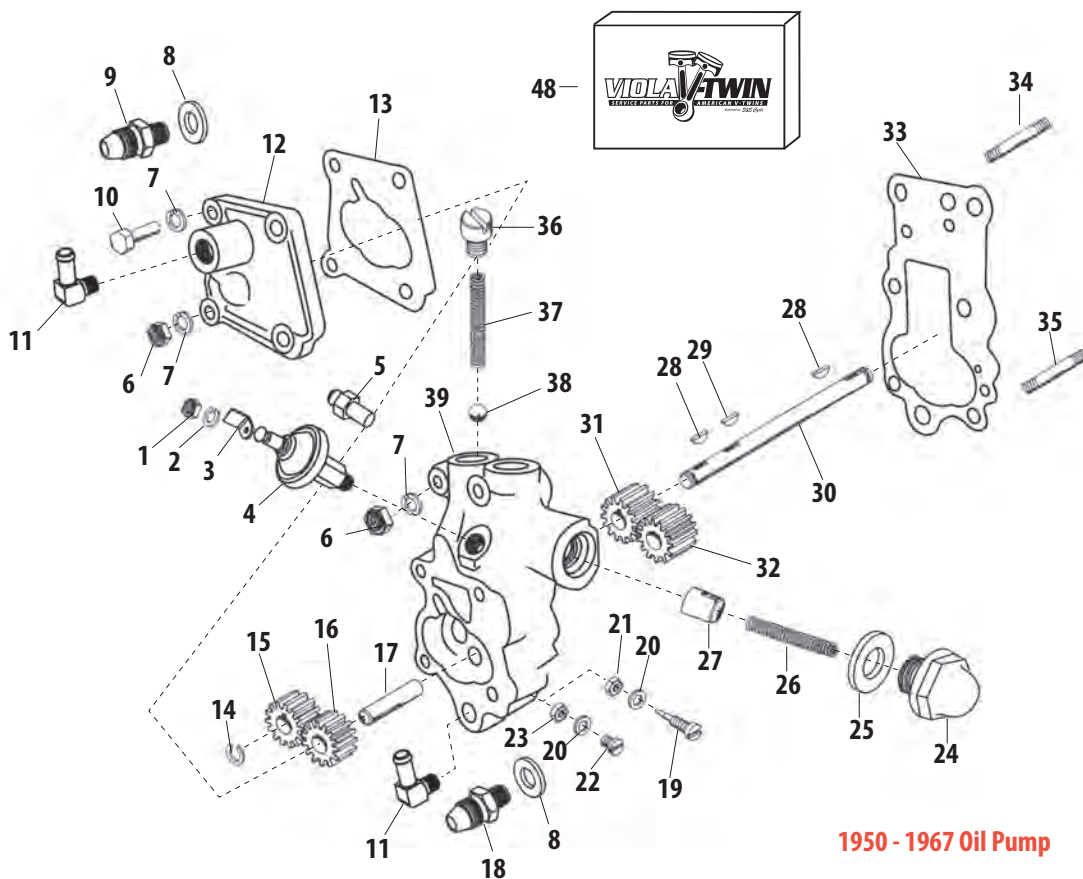
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Front Intake Rocker Arm Cover, 1938 to 1947--OHV <i>See chart for complete Top Cover Kit options</i>	173-38	17510-38	—
	Rear Intake Rocker Arm Cover, 1938 To 1947--OHV <i>See Chart For Complete Top Cover Kit Options</i>	173-38A	17512-38	—
	Front Exhaust Rocker Arm Cover, 1938 to 1947--OHV <i>See chart for complete Top Cover Kit options</i>	173-38B	17514-38	—
	Rear Exhaust Rocker Arm Cover, 1938 to 1947--OHV <i>See chart for complete Top Cover Kit options</i>	173-38C	17516-38	—
	Screw, Valve Spring Covers, Stock 1936-'47 OHV bt	179-39	3477	106-3634
3	Front Intake and Rear Exhaust Cover Screw Plate, w/Screws, 1938 to 1947--OHV	176-38	17550-38	—
	Front Intake and Rear Exhaust Cover Straight Screw Plate, w/Screws, 1938 to 1947--OHV	176-38A	17552-38	—
	Front Exhaust Cover Screw Plate, with Screws, 1938 to 1947--OHV	176-38B	17554-38	—
	Rear Intake Cover Curve Screw Plate, With Screws, 1938 to 1947--OHV	176-38C	17556-38	—
	Front Exhaust Cover Screw Plate, with Screws, 1938 to 1947--OHV	176-38D	17558-38	—
4	Rear Intake Straight Screw Plate, with Screws, 1938 to 1947--OHV	176-38E	17560-38	—
	Front Intake And Rear Exhaust Cover Gasket, 1938 to 1947--OHV	175-38	17535-38	—
	Rear Intake Cover Gasket, 1938 to 1947--OHV	175-38A	17537-38	—
5	Front Exhaust Cover Gasket, 1938 to 1947--OHV	175-38B	17539-38	—
	Valve Spring Kit 1937 to 1947--OHV <i>See chart for complete Valve Spring Kit</i>	—	—	—
	Valve Key, 1936 to 1949--OHV	172-36	18228-36	—
6	Upper Valve Spring Collar, 1936 To 1949--OHV	170-36	18221-36	—
7	Outer Valve Spring, 1936 To 1949--OHV	168-36	18203-36	—
8	Inner Valve Spring, 1936 To 1949--OHV	169-36	18204-36	—
9	Lower Spring Collar (27/32" I.D.), 1936 To 1947 Intake, Later 1938 To 1947 Exhaust OHV	171-36A	18222-36	—
11	Valve Guide, Intake/Exhaust, Standard, Cast Iron, 1936-'47 OHV bt	167-36	18181-36	106-3637
	Exhaust Valve Guide and Collar, +.001" O.S., 1936 to 1947 OHV	167-36A	18182-36	—
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, Stock 1936-'47 OHV bt	167-36B	18184-36	106-3948
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, Stock 1936-'47 OHV bt	—	—	106-3948
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, Stock 1936-'47 OHV bt	—	—	106-3948
	Valve Guide, Intake/Exhaust, Standard, Cast Iron, 1936-'47 OHV bt	167-40	18185-40	106-3637
	Intake Valve Guide and Collar, +.001" O.S., 1936 to 1947 OHV	167-40A	18186-40	—
	Valve Guide, Intake/Exhaust, +.002", Cast Iron, Stock 1936-'47 OHV bt	167-40B	18187-40	106-3948
	Valve Guide, Intake/Exhaust, +.004", Cast Iron, 1936-'47 OHV bt	—	—	106-3638
	Valve Guide, Intake/Exhaust, +.008", Cast Iron, 1936-'47 OHV bt	—	—	106-3639
12	Set Rocker Arm Covers and Fittings (conversion set for 1936 & 1937 models not originally equipped), 1936 to 1947--OHV <i>See chart for complete Bottom Cover Kit</i>	173-38D	17518-38	—
	Front Intake and Rear Exhaust Cover Cap, 1938 to 1947--OHV <i>See chart for complete Bottom Cover Kit</i>	174-38	17525-38	—
	Rear Intake Cover Cap, 1938 to 1947--OHV <i>See chart for complete Bottom Cover Kit</i>	174-38A	17527-38	—
	Front Exhaust Cover Cap, 1938 to 1947--OHV <i>See chart for complete Bottom Cover Kit</i>	174-38B	17529-38	—
	Nut, Kit, Rocker Arm Shaft, 1936-'47 OHV bt,	0136	7831	106-3632
14	Oil Pipe For Rocker Housing 1936-'47--OHV (Y-line)	3573-36	—	—
15	Fitting, Bottom, Straight, Oil Line Supply, Cadmium Plated, 1936-'47 OHV bt	95-42A	17330-42	106-4734
16	Valve Spring Cover Oil Seal, 1937 to 1947--OHV	176-37	18265-37	—
17	Set, Front & Rear Cylinder Head, 1940 to 1947--OHV <i>See chart for complete Cylinder Head Set</i>	—	—	—
	Front Cylinder Head, 1940 to 1947--OHV <i>See chart for complete Cylinder Head Set</i>	9-40	16697-40	—
	Rear Cylinder Head, 1940 to 1947--OHV <i>See chart for complete Cylinder Head Set</i>	10-40	16700-40	—
	Screw, HHC, 3/8-16 x 1-3/8", Cadmium Plated	071	4348	106-4597
19	Screw, HHC, 3/8-16 x 1-1/8", Cadmium Plated	073	4354	106-4598
20	Lock Washer, 7/16" <i>See chart for compatible Washer</i>	0265	7055	—
21	Front Intake Rocker Shaft, Later 1939 to 1947--OHV <i>See chart for Shaft Set</i>	105-39	17435-39	—
	Rear Intake Rocker Shaft, Later 1939 to 1947--OHV <i>See chart for Shaft Set</i>	106-39	17438-39	—
	Front Exhaust Rocker Shaft, Later 1939 to 1947--OHV <i>See chart for Shaft Set</i>	107-39	17441-39	—
	Rear Exhaust Rocker Shaft, Later 1939 to 1947--OHV <i>See chart for Shaft Set</i>	108-39	17444-39	—
	Front Intake Rocker Arm, Later 1939 to 1947--OHV <i>See chart for complete Rocker Arm Assembly</i>	98-39	17360-39	—
22	Rear Intake Rocker Arm, Later 1939 to 1947--OHV <i>See chart for complete Rocker Arm Assembly</i>	99-39	17375-39	—
	Front Exhaust Rocker Arm, Later 1939 to 1947--OHV <i>See chart for complete Rocker Arm Assembly</i>	100-39	17398-39	—
	Rear Exhaust Rocker Arm, Later 1939 to 1947--OHV <i>See chart for complete Rocker Arm Assembly</i>	101-39	17405-39	—
	Seal, Oil, Rocker Arm, 1936-'47 OHV bt	120-38	17475-38	106-3636
24	Washer, Rocker Arm, Packing, Stock 1936-'47 OHV bt	123-36	17482-36	106-4358
25	Washer, Rocker Arm, Thrust, Stepped .015, 1936-'47 OHV bt	119-36	17465-36	106-4352
26	Fitting, Pipe, Straight, Oil Line Return, Rocker Housing, Parkerized	94-38	17320-38	106-4619



#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
27	Housing, Front, Rocker Arm, Flathead Power®, Natural, Stock 1936-'47 OHV bt See chart for complete Rocker Arm Housing Set and polish options	90-36	17300-36	106-3842
	Housing, Rear, Rocker Arm, Flathead Power®, Natural, Stock 1936-'47 OHV bt See chart for complete Rocker Arm Housing Set and polish options	91-41	17310-41	106-3945
28	Fitting, Top, Pipe, Straight, Oil Line Supply, Cadmium Plated	95-42	17325-42	106-4618
29	Nut, Rocker Arm Shaft, Knuckle, w/ O-ring, Chrome, Stock 1936-'47 OHV bt, 4 Pack	114-36	17447-36	106-2889
29a	Washer For Large Nut See chart for compatible O-ring option	469-15	6475	—
30	Intake and Exhaust Valve Insert (Standard Size), 1936 to 1947--OHV	162-36	18050-36	—
	Intake and Exhaust Valve Insert - 1/32" O.S., 1936 to 1947--OHV	162-36A	18052-36	—
	Intake and Exhaust Valve Insert - 1/64" O.S., 1936 to 1947--OHV	162-36B	18054-36	—
31	Intake Valve, 1936 to 1947--OHV	163-36	18071-36	—
32	Valve, Exhaust, Flathead Power®, 1.750", Stock 1936-'47 OHV bt	165-36	18081-36	106-3629
33	Cylinder head gasket, 61" 1936 to 1947--OHV <i>each</i>			106-2686
	Cylinder head gasket, 61" 1936 to 1947--OHV <i>2 pack</i>	12-36	16770-36	930-0012
34	Piston, Set, 3-7/16", Standard, 74", LC, Forged, .791" WP, 1936-'84 bt See chart for High Compression Piston Sets	256-41	22101-41	106-5495
	Piston, Set, 3-7/16", +.010", 74", LC, Forged, .791" WP, 1936-'78 bt See chart for High Compression Piston Sets	256-41D	22103-41	106-5496
	Piston, Set, 3-7/16", +.020", 74", LC, Forged, .791" WP, 1936-'78 bt See chart for High Compression Piston Sets	256-41E	22104-41	106-5497
	Piston, Set, 3-7/16", +.030", 74", LC, Forged, .791" WP, 1936-'78 bt See chart for High Compression Piston Sets	256-41F	22105-41	106-5498
	Piston, Set, 3-7/16", +.040", 74", LC, .791" WP, 1936-'78 bt See chart for High Compression Piston Sets	256-41G	22106-41	106-5773
35	Ring, Set, Piston, 3-7/16", Standard, Moly Faced, .0625, .0625, .184, 1966-'84 bt	262-41	22355-41	94-2200X
	Ring, Set, Piston, 3-7/16", +.010", Moly Faced, .0625, .0625, .184, 1966-'84 bt	262-41D	22357-41	94-2201X
	Ring, Set, Piston, 3-7/16", +.020", Moly Faced, .0625, .0625, .184, 1966-'84 bt	262-41E	22358-41	94-2202X
	Ring, Set, Piston, 3-7/16", +.030", Moly Faced, .0625, .0625, .184, 1966-'84 bt	262-41F	22359-41	94-2203X
	Ring, Set, Piston, 3-7/16", +.040", Moly Faced, .0625, .0625, .184, 1966-'84 bt	262-41G	22360-41	94-2204X
36	Washer, Head Bolt, Cadmium Plated, 1936-'64 OHV bt See chart for compatible Head Bolt with Washer option	15-36	6469	106-5314
37	Cylinder Head Bolt 7/16-16 x 2-9/16" 1940 to 1947 OHV See chart for compatible Head Bolt with Washer option	14-40	16814-40	—
	Head Bolt, Kit, Hex, 7/16-20 x 2-3/8", Stock 1948-'65 OHV bt & 3-5/16" See chart for compatible Head Bolt with Washer option	14-48	16814-48	106-4523
38	Gasket, Base, Flathead Power®, 3-5/16", 3-7/16", 1936-'47 OHV bt <i>each</i> See chart for compatible Base Gasket option			106-2692
	Gasket, Base, Flathead Power®, 3-5/16", 3-7/16", 1936-'47 OHV bt <i>2 Pack</i> See chart for compatible Base Gasket option	46-21	16774-21	106-4919
39	Cylinder, Front, 3-7/16" Bore, 5.530", 1936-'47 OHV bt See chart for compatible Cylinders options	6-41B	16483-41	106-4513
	Rear Cylinder with Piston Assembly, 1941 to 1947--74" OHV See chart for compatible Cylinders options	7-41B	16491-41	—
40	Nut, Kit, Base, Cadmium Plated, Stock Bore 1930-'78 bt See chart for Nut and Washer Kit and optional Stainless Steel version	0134	16602-30	106-4522
	Washer, Lock, 7/16", Cadmium Plated	0265	7055W	106-5313
41	Stud, Cylinder Base, 7/16-14 UNC, 7/16-20 UNF x 2.0, Zinc, Steel	29-30	16831-30	31-2328-S
42	Pushrod, Set, Non-Adjustable, Stock (61"), Aluminum, 1936-'47 bt	131-36	17905-36	930-0007
	Pushrod, Set, Non-Adjustable, Stock (74"), Aluminum, 1936-'47 bt	131-36	17905-36	930-0008
43	Pushrod Cover, Kit, Natural, Stock 1936-'47 OHV bt	136-36	17939-36	106-3949
44	O-ring, Square, .1875"	145-36	17955-36	106-3849
45	Pushrod Cover, Top, Natural, Zinc Plated, Steel, Stock 1936-'47 OHV bt	134-36	17935-36	106-3850
46	Cap, Pushrod Cover, 1936-up bt, 1957-'90 xl	138-36	17945-36	93-4017
47	Spring, Pushrod Cover Cap, .080" Wire, .730" x .890" x .925", Steel, 1936-up bt, 1957-'90 xl	140-36	17947-36	93-4018
48	Washer, Flat, .715" x .950" x .031", Steel	146-36	6762	50-7131
49	Pushrod Cover, Bottom, Chrome, Stock 1936-'47 OHV bt	135-40	17983-40	106-3851
50	Screw, Slotted, Oval, Machined, 1/4-24 x 5/8", Cadmium Plated, Steel	057	2329	106-3847
51	Washer, Countersunk, External Tooth, 1/4" x 1/2", Cadmium Plated, Steel	0365	7231	106-3848
52	Tappet Guide, Front, Flathead Power®, Silver, Cast Iron, 1936-'47 OHV bt See chart for Tappet Guide Set	234-36	18600-36	106-2665
	Tappet Guide, Rear, Flathead Power®, Silver, Cast Iron, 1936-'47 OHV bt See chart for Tappet Guide Set	235-36	18610-36	106-2666
53	Tappet, Assembly, Exhaust, Standard, 1936-'47 OHV bt	201-36	18493-36	106-1817
	Tappet, Assembly, Exhaust, +.005", 1936-'47 OHV bt	—	—	106-1818
54	Tappet, Assembly, Intake, Standard, 1936-'47 OHV bt	200-36	18491-36	106-1815
	Tappet, Assembly, Intake, +.005", 1936-'47 OHV bt	—	—	106-1816
55	Gasket, Tappet Guide, Fiber 4N, 1936-'47 OHV bt <i>each</i>			106-2561
	Gasket, Set, Tappet Guide, 1936-'47 OHV bt <i>2 Pack</i>	237-36	18632-36	106-2563
56	Tappet Roller Kit, 1936 to 1949--OHV, Crane Cams®	208-29A	18534-29	3-0101
57	Terminal Nut For Spark Plug, 1927 to 1947, 1948--OHV & side valves (Not Shown)	39-26	32370-26	—

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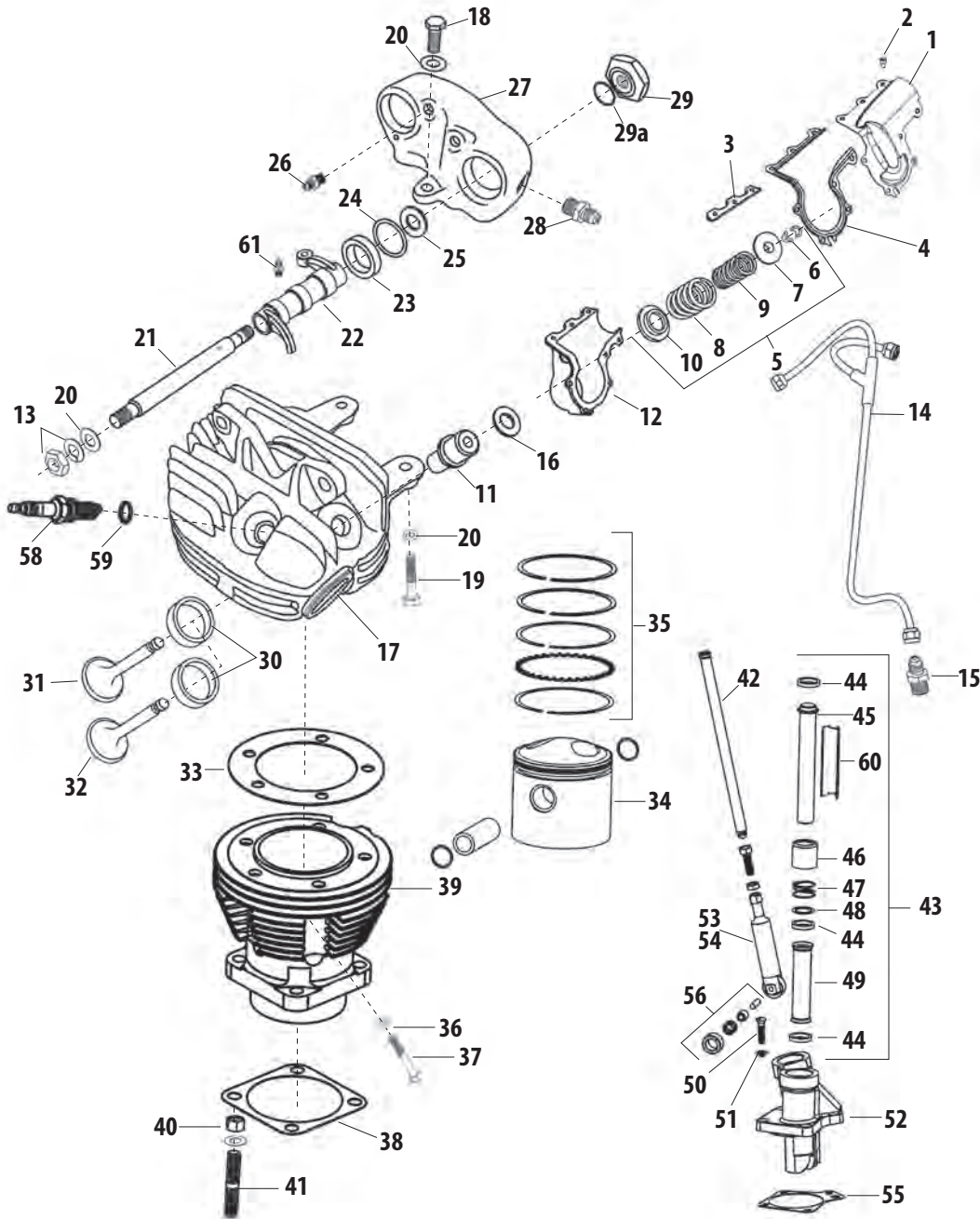
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
	Spark Plug (No.2) 1927 to 1947, 1948--OHV & side valves	37-09B	32304-09	—
58	Spark Plug (No.3) 1927 to 1947, 1948--OHV & side valves	37-09C	32302-09	—
	Spark Plug (No.4) 1927 to 1947, 1948--OHV & side valves	37-09D	32300-09	—
	Spark Plug (No.5 racing) 1927 to 1947, 1948--OHV & side valves	37-09E	32306-09	—
59	Spark Plug Gasket, 1927 to 1947, 1948--side valves	40-08	32342-08	—
60	Pushrod Cover Spring Cap Retainer <i>See chart for compatible Cover Keeper chrome option</i>	142-40	17949-40	—
61	Rocker Arm Ball Stud	102-36	17425-36	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Cover, Kit, Top, Valve Spring (Tins), Flathead Power®, Chrome, 1938 - '47 bt	106-2400
	Cover, Kit, Top, Valve Spring (Tins), Flathead Power®, Gloss Black, 1938 - '47 bt	106-2893
	Cover, Kit, Top, Valve Spring (Tins), Flathead Power®, Silver, 1938 - '47 bt	106-4346
5	Valve Spring Kit 1937 to 1947--OHV	106-6398
12	Cover, Kit, Bottom, Valve Spring (Tins), Flathead Power®, Black Anodize, 1938 - '47 bt (Must be used with S&S top covers part #106-2400, S&S spring kit part #106-6398, and oil line return kit part #106-4446)	106-2401
	Oil Line, Kit, Return, Complete, KN-Series	106-4446
16	Gasket, Bottom, Valve Spring Covers, (Tins), Flathead Power®, Vulcanized Fiber, 1936-'47 OHV bt	106-2878
17	Head, Set, Partially Assembled, Flathead Power®, CTO, Stock 1936-'47 OHV b	106-2403
	Head, Kit, Fully Assembled, Flathead Power®, Configure To Order, Stock 1936-'47 OHV bt	106-4929
20	Washer, Lock, 7/16", Zinc	106-4357
21	Shaft, Set, Rocker Arm, Flathead Power®, 1936-'47 OHV bt	106-2413
22	Rocker Arm, Assembly, FI, Non-Roller, Flathead Power®, 1:1 Ratio 1936-'47 OHV bt	106-2862
	Rocker Arm, Assembly, RI, Non-Roller, Flathead Power®, 1:1 Ratio 1936-'47 OHV bt	106-2864
	Rocker Arm, Assembly, FE, Non-Roller, Flathead Power®, 1:1 Ratio 1936-'47 OHV bt	106-2863
	Rocker Arm, Assembly, RE, Non-Roller, Flathead Power®, 1:1 Ratio 1936-'47 OHV bt	106-2865
	Rocker Arm, Set, Non-Roller, Flathead Power, 1:1 Ratio, 1936-'47 OHV bt	106-2412
27	Housing, Set, Rocker Arm, Flathead Power®, Natural, Stock 1936-'47 OHV bt	106-3951
	Housing, Set, Rocker Arm, Flathead Power®, Polished, Stock 1936-'47 OHV bt	106-1771
	Housing, Front, Rocker Arm, Flathead Power®, Polished, Stock 1936-'47 OHV bt	106-3830
	Housing, Rear, Rocker Arm, Flathead Power®, Polished, Stock 1936-'47 OHV bt	106-3834
29a	O-ring, (-017), .676" ID x .816" OD, Black, Viton®	50-0466
34	Piston, Set, 3-7/16", Standard, HC, .791" WP, 1936-'84 bt	106-5503
	Piston, Set, 3-7/16", +.010", HC, .791" WP	106-5504
	Piston, Set, 3-7/16", +.020", HC, .791" WP, 1936-'84 bt	106-5505
	Piston, Set, 3-7/16", +.030", HC, .791" WP, 1936-'84 bt	106-5506
	Piston, Set, 3-7/16", +.040", HC, .791" WP, 1936-'84 bt	106-5775
38	Gasket, Base, Flathead Power®, 3-5/8", Fiber 4N	106-2690
39	Cylinder, Set, 3-7/16" Bore, 5.530", w/ Gaskets, Hi-Temp Black, 1936-'47 OHV bt	106-4512
	Cylinder, Front, 3-7/16" Bore, 5.530", 1936-'47 OHV bt	106-4513
	Cylinder, Rear, 3-7/16" Bore, 5.530", 1936-'47 OHV bt	106-4514
	Cylinder, Kit, 3-7/16" Bore, 5.530", 3-31/32" Stroke, 106-5495, Hi-Temp Black, 8.0:1 Compression, 1936-'47 OHV bt	106-4519
40	Nut, Kit, Base, Cadmium Plated, Stock Bore 1930-'78 bt (includes 8 nuts and 8 washers)	106-4522
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>each</i>	93-3063-5
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>8 pack</i>	93-3063
52	Tappet Guide, Set, Flathead Power, Silver, 1936-'47 OHV bt	106-2410
53, 54	Tappet, Set, Standard, 1936-'47 OHV bt	106-1819
	Tappet, Set, +.005", 1936-'47 OHV bt	106-1820
60	Cover Keeper, Pushrod, 3.330", Chrome	93-4035-5



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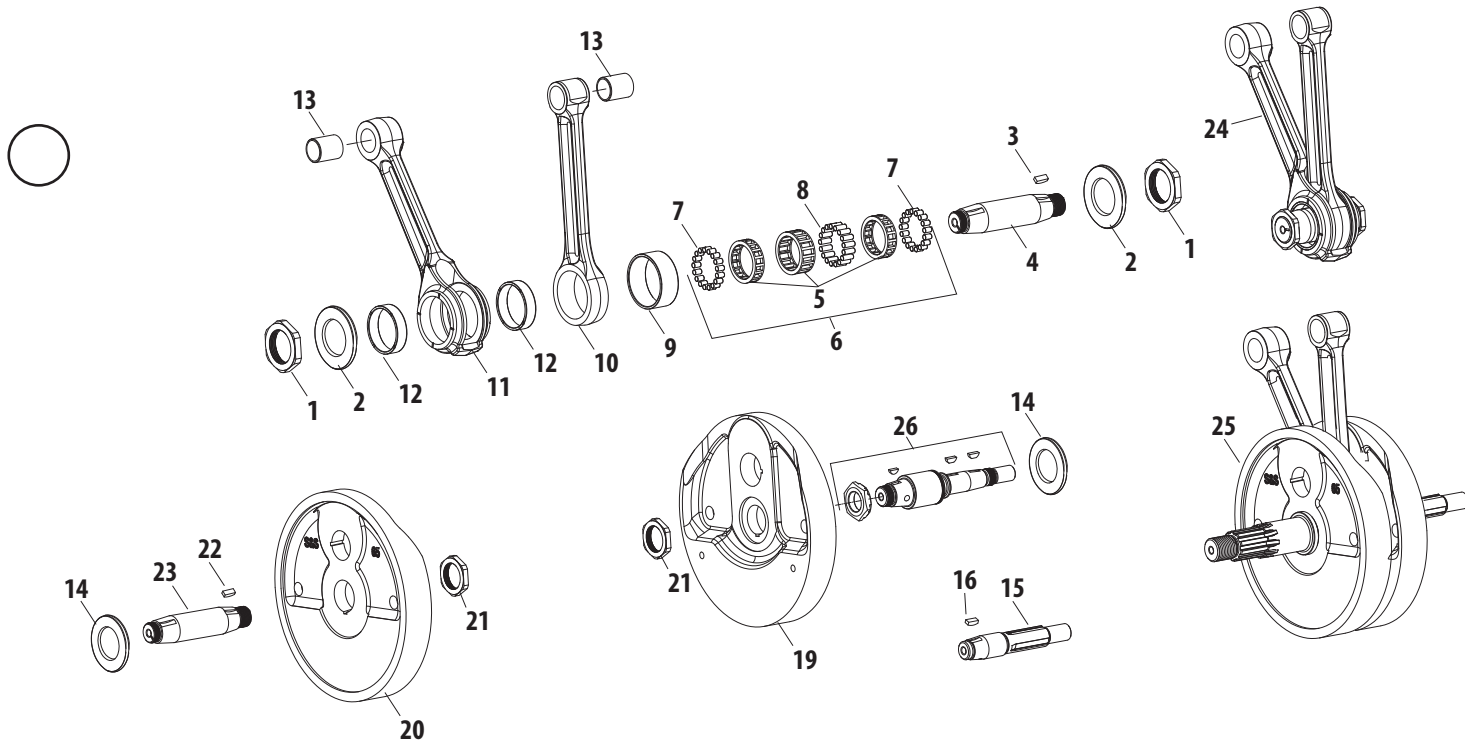
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CONNECTING RODS AND FLYWHEELS FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS (AND PANHEAD)

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Nut, Crankpin (2), 1954-E'81 bt		23966-54A	—
	Nut, Crankpin (2), 1937-'49, 61" OHV bt & 1937-'48 SVBT	366-36	23966-36	—
	Nut, Crankpin (2), 1941-'49, 74" OHV bt	366-41	23967-41	—
	Washer, Flywheel (2), 1937-'49, 61" OHV bt & 1937-'48 SVBT	372-36	23972-36	—
2	Washer, Flywheel (2), 1941-E'70 bt	372-41	23973-41	—
3	Key, Crankpin, 1930-E'81 bt	1650-18	23985-18	—
4	Crankpin, Assembly, Tapered, 1.249", 1941-'81 bt	348-41	23961-41	34-2003
	Crankpin, 1940-'49 SV & 61" OHV bt <i>See chart for compatible Crankpin Assembly</i>	348-40	23962-40	—
5	Retainer, Crankpin Roller (4), 1951-'72 bt	301-51	24366-51	—
	Retainer, Crankpin Roller (4), 1940-'49, 61" OHV bt	301-40	24366-40	—
6	Bearing, Assembly, Connecting Rod, Standard, 1941-'84 bt		24385-40B	34-4010
	Bearing, Assembly, Connecting Rod, +.0004", 1941-'84 bt		24387-40B	—
	Bearing, Assembly, Connecting Rod, +.0006", 1941-'84 bt		24388-40B	—
	Bearing, Assembly, Connecting Rod, +.0008", 1941-'84 bt		24389-40B	—
	Bearing, Assembly, Connecting Rod, +.0010", 1941-'84 bt		24390-40B	—
	Bearing, Assembly, Connecting Rod, -.0002", U.S., 1941-'84 bt		24391-40B	—
7	Roller, Crankpin, 0.188 X 0.344 - Standard (36), 1940-'49 bt	304-40	9361	—
	Roller, Crankpin, +.0002" (36), 1940-'49 bt	304-40D	9362	—
	Roller, Crankpin, +.0004" (36), 1940-'49 bt	304-40F	9363	—
	Roller, Crankpin, +.0006" (36), 1940-'49 bt	304-40H	9364	—
	Roller, Crankpin, +.0008" (36), 1940-'49 bt	304-40KA	9365	—
	Roller, Crankpin, +.0010" (36), 1940-'49 bt	304-40MA	9366	—
	Roller, Crankpin, 0.188 X 0.329 - Std. (36), 1951-'72 bt		9101A	—
	Roller, Crankpin, +.0002" (36), 1951-'72 bt		9102A	—
	Roller, Crankpin, +.0004" (36), 1951-'72 bt		9103A	—
	Roller, Crankpin, +.0006" (36), 1951-'72 bt		9104A	—
	Roller, Crankpin, +.0008" (36), 1951-'72 bt		9105A	—
	Roller, Crankpin, +.0010" (36), 1951-'72 bt		9106A	—
	Roller, Crankpin, -.0002", U.S. (36), 1951-'72 bt		9108A	—
	8	Roller, Crankpin, 0.188 X 0.694 - Standard (36), 1940-'49 bt	305-40	9341
Roller, Crankpin, +.0002" (36), 1940-'49 bt		304-40D	9342	—
Roller, Crankpin, +.0004" (36), 1940-'49 bt		304-40F	9343	—
Roller, Crankpin, +.0006" (36), 1940-'49 bt		304-40H	9344	—
Roller, Crankpin, +.0008" (36), 1940-'49 bt		304-40KA	9345	—
Roller, Crankpin, +.0010" (36), 1940-'49 bt		304-40MA	9346	—
Roller, Crankpin, 0.188 X 0.662 - Standard (18), 1951-'72 bt			9171A	—
Roller, Crankpin, +.0002" (18), 1951-'72 bt			9172A	—
Roller, Crankpin, +.0004" (18), 1951-'72 bt			9173A	—
Roller, Crankpin, +.0006" (18), 1951-'72 bt			9174A	—
Roller, Crankpin, +.0008" (18), 1951-'72 bt			9175A	—
Roller, Crankpin, +.0010" (18), 1951-'72 bt		9176A	—	
Roller, Crankpin, -.0002", U.S. (18), 1951-'72 bt		9179A	—	
9	Race, Front, Connecting Rod, 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>		24356-36A	34-4005
10	Connecting Rod, Front	286-36	24302-36	—
11	Connecting Rod, Rear	285-36	24298-36	—
12	Race, Rear, Connecting Rod, Lower, 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>		24345-36A	34-4006
13	Bushing, Piston Pin, +.002 O.S. O.D., 1941-'84 bt <i>Also available in a complete Rebuild Kit, see chart</i>	295-36	24334-36	34-4007
	Bushing, Piston Pin, +.010 O.S. O.D. (2), 1941-'84 bt	295-36A	24335-36	—
14	Flywheel Thrust Collar, Assortment of 10, 1929-'49 bt	358-17A	24100-17	—
	Flywheel Thrust Collar, .066", 1929-'49 bt	358-17B	24102-17	—
	Flywheel Thrust Collar, .070", 1929-'49 bt	358-17C	24104-17	—
	Flywheel Thrust Collar, .074", 1929-'49 bt	358-17D	24106-17	—
	Flywheel Thrust Collar, .078", 1929-'49 bt	358-17E	24108-17	—
	Flywheel Thrust Collar, .082", 1929-'49 bt	358-17F	24111-17	—
	Flywheel Thrust Collar, .086", 1929-'49 bt	358-17G	24113-17	—
	Flywheel Thrust Collar, .090", 1929-'49 bt	358-17H	24115-17	—
	Flywheel Thrust Collar, .094", 1929-'49 bt	358-17JA	24117-17	—
	Flywheel Thrust Collar, .098", 1929-'49 bt	358-17KA	24120-17	—
Flywheel Thrust Collar, .102", 1929-'49 bt	358-17LA	24122-17	—	
15	Gear Shaft, Pinion 1939-'49 OHV <i>See chart #26 for compatible Pinion Shaft Assembly</i>	356-39	24696-39	—
	Gear Shaft, Pinion 1939-'54 OHV		24006-39	—
	Gear Shaft, Pinion 1955-'57 OHV		24006-54A	—
	Gear Shaft, Pinion 1958-'72 OHV		24006-58	—
16	Key, Gear Shaft, 1912-E'81	361-12	23985-12	—



#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
17	Shaft Nut Lock Plate 1936-'49 OHV 61" & 1937-'48 SVBT All Shafts, 1941-'49 OHV 74" Gear and Sprocket Shafts (Not Shown)	370-36	24015-36	—
	Crankpin Nut Lock Plate 1941-'49 OHV 74" (Not Shown)	369-41	24015-36	—
18	Lockplate Screw 1912-'49 bt	030	1187	—
	Screw, No. 10-24 X 3/8 Pozidriv Pan Hd. (4), 1948-E'78	030	2660	—
19	Flywheel, Right, 1941-'80 OHV 74" & 80"	339-41A	23940-41A	—
	Flywheel, Right, 1936-'40 OHV 61"	339-36	339-36	—
	Flywheel, Right, 1941-'49 OHV 61"	339-41	23942-41	—
20	Flywheel, Left, 1941-'80 OHV 74" & 80"	338-41A	23919-41	—
	Flywheel, Left, 1936-'40 OHV 61"	338-36	338-36	—
	Flywheel, Left, 1941-'49 OHV 61"	338-41	23922-41	—
21	Nut, Gear and Sprocket Shafts 1937-E '81	364-36	24023-36	—
22	Key, Sprocket Shaft, 1956-'71 bt	361-12	23985-56	—
	Key, Sprocket Shaft, 1912-'55 bt	361-12	23985-12	—
23	Sprocket Shaft, 1965-'69 bt See chart for compatible Sprocket Shaft		24001-65	—
	Sprocket Shaft, 1956-'64 bt See chart for compatible Sprocket Shaft		24001-56	—
	Sprocket Shaft, 1955 bt See chart for compatible Sprocket Shaft		24001-55	—
	Sprocket Shaft, 1930-'54 bt See chart for compatible Sprocket Shaft	352-30	24001-30	—
24	Set of Connecting Rods with Bearings & Crankpin, 1936-'49 OHV 61" See chart for Connecting Rod Set	290-36	24277-36	—
	Set of Connecting Rods with Bearings & Crankpin, 1941-'49 OHV 74" See chart for Connecting Rod Set	290-41	24281-41A	—
25	Flywheel, Set, 8-1/2" Diameter, Special Order, 1936-'84 bt See chart for a Special Order Flywheel Assembly		23906-74	—
	Flywheel, Set, with Shafts and Rods, 1936-'84 See chart for a Special Order Flywheel Assembly		23906-78F	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
4	Crankpin, Assembly, Tapered, 1.249", 1937-'53 OHV bt and 1940-'48 SVBT (includes crankpin nuts and key)	34-2001
	Crankpin, Assembly, Tapered, 1.249", 1941-'81 bt (includes crankpin nuts and key)	34-2003
9, 12, 13	Rebuild Kit, Connecting Rod, Race & Bushing, 1941-'99 bt	34-4040
23	Sprocket Shaft, Assembly, Packaged, 1936-'54 bt	33-2001
	Sprocket Shaft, Assembly, Packaged, 1965-'69 bt	33-2003
24	Connecting Rod, Set, Heavy Duty, IBC, .791" WP, 7.440", 1941- E'81 bt	34-7004
25	Flywheel, Special Order, 1936-'99 bt	32-2015
	Flywheel, Set, 4-1/4" Stroke, 8-1/2" Diameter, Special Order, 1936-'99 bt	32-2050
	Flywheel, 3-13/16" Stroke, 7-7/8" Diameter, WR/KR	32-3013
26	Pinion Shaft, Assembly, Tapered, Standard, 1939-'53 bt	33-2021
	Pinion Shaft, Assembly, Tapered, Standard, 1958-E'81 bt	33-2024
	Pinion Shaft, Assembly, Tapered, Packaged, Standard, 1937-'43 bt	33-2356

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GENERATOR GEARCOVER FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS (AND PANHEAD & SHOVELHEAD)

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Plug, Oil Screen, 1948 - '99 S&S bt See chart for compatible Oil Pump Screw	655	26263-80	—
2	Gasket, Oil Screen Plug, L1952 - '69	—	62702-52	—
	O-Ring, Oil Screen Plug, 1948 - '99 S&S Bt See chart for compatible O-Ring	—	11105	—
3	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>each</i>	24982-66	24982-70	31-2011-S
	Spring, Crankcase Oil Screen, .040" Wire, .340" x .420" x 1.375", Music Wire, L1952 - '69 <i>10 Pack</i>	—	—	31-2058
4	Oil Screen, Crankcase, L1952 - '69	24981-66	24981-70	31-2010
5	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1936 - '64	585-30	377	50-8017
	Dowel Pin, Gearcover, .370" x .750", Steel (2), 1965 - '69	—	378	50-8017
6	Fitting, Rocker Arm Oil Line, 1966 - '69	—	63526-57	—
7	Retaining Ring, Oil Pump Drive Shaft, SAE 1060-1090, 1941 - '69	695-36	See	50-8058
8	Drive Gear, Oil Pump - 25 Tooth, 1941 - '69 See chart for compatible 24 Tooth Oil Pump Drive Gear	26345-39	26345-70	—
9	Key, Woodruff, .094" x .313" x .311", Steel, 1936 - '69	634-15	26348-15	50-8220-S
10	Shaft, Drive, Oil Pump, 1936-'67	638-36	26346-36	—
	Shaft, Drive, Oil Pump, .4223" x 4.650", Cold Drawn Steel, AISI 1146, 1968-'99 bt	26346-68	26346-70	31-6011
11	Bushing, Drive Shaft, Oil Pump, Stepped, .424" x .533" x 2.540", Bronze, 1954 - '69	412-36	24641-36	31-4008
12	Breather Screen Separator 1936 - '69 (Not Shown)	585-36A	25279-36	—
13	Breather Screen 1936 - '69 (Not Shown)	585-36	25275-36	—
14	Gasket, Gearcover, 1936-'64 bt	598-36	25225-36A	31-2030
	Gasket, Gearcover, Flathead Power®, 1965-'69	—	25225-36C	106-2072
15	Gear, Breather, High Evacuation, 1936 - '47	504-36	25300-36	106-5070
	Gear, Breather, High Evacuation, +.030", 1936-'47 bt	—	—	106-6012
	Gear, Breather, 1948-E'77 bt See chart for complete Breather Gear Kit	—	25313-73	33-4246
	Gear, Breather, +.030", 1948-E'77 bt	—	—	33-4247
	Gear, Breather, with Gear, L1977 - '99 See chart for complete Breather Gear Kit	25313-77B	25310-82A	33-4241
	Gear, Breather, +.030", with Gear, L1977 - '99	—	—	33-4242
16	Thrust Washer, Breather Valve - 0.115 Thick, 1950 - '69	—	25313-50	—
	Thrust Washer, Breather Valve - 0.120 Thick, 1950 - '69	—	25314-50	—
	Thrust Washer, Breather Valve - 0.125 Thick, 1950 - '69	—	25315-50	—
	Thrust Washer, Breather Valve - 0.110 Thick, 1952 - '69	—	25316-52	—
17	Gear, Pinion, Oil Pump Drive, 6 Tooth, 1954 - '69	26349-54	26349-73	33-4232
18	Key, Gear Shaft (2), 1954 - '69	—	23985-54	—
	Key, Gear Shaft, Woodruff, .094" x .313" x .311", Steel (2), 1954 - '69	—	26348-15	50-8220-S
19	Spacer, Gear Shaft Pinion, 1940 - '53	355-40	24703-40	—
	Spacer, Gear Shaft Pinion, .740" x .900" x .320", Black, Steel, 1954 - '69	—	24703-54	33-4289
20	Spring, Seal Ring	355-37B	24699-37	—
21	Gear, Pinion, Green, 1954 - '69 See chart for Pinion Gear diameter options	—	24010-54	33-4125
22	Nut, Pinion Gear, 5/8-24 UNEF-3B LH x .375", Black, Steel, 4140, 1954 - '69	—	24023-54	33-4244
23	Dowel Pin, 1/8 x 1/4 (2), 1941 - '69	—	275	—
	Dowel Pin, 1/8 X 1/4 (2), 1931 - '49	661-31	271	—
24	Bushing, Gearcover Pinion Shaft, 1954 - '72	—	25582-54A	—
	Bushing, Gearcover Pinion Shaft, 1973 - '92	—	25582-73	—
25	Bushing, Crankcase Cam Gear, 1936 - '57	660-36	25597-36	—
	Bearing, Assembly, Needle, Cam, 1958 - '69	—	9058	31-4009
26	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>each</i>	—	—	33-5201
	Washer, Cam, Lock, .062", Steel, 1958 - 99 bt <i>5 Pack</i>	—	25550-57A	33-5213
	Washer, Cam, Lock, .062", Steel, 1936-'56 OHV bt <i>each</i>	—	—	106-4528
27	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel 1936 - '99 <i>each</i>	—	—	33-5200
	Washer, Cam, Thrust, .820" x 1.060" x .050", Steel, 1936 - '99 <i>5 Pack</i>	664-36	25550-36	33-1007
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>each</i>	—	—	33-5202
	Washer, Cam, Thrust, .820" x 1.060" x .055", Steel, 1936 - '99 <i>5 Pack</i>	—	25551-36	33-1008
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>each</i>	—	—	33-5203
	Washer, Cam, Thrust, .820" x 1.060" x .060", Steel, 1936 - '99 <i>5 Pack</i>	—	25552-36	33-1009
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel 1936 - '99 <i>each</i>	—	—	33-5204
	Washer, Cam, Thrust, .820" x 1.060" x .065", Steel, 1936 - '99 <i>5 Pack</i>	—	25553-36	33-1010
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>each</i>	—	—	33-5205
	Washer, Cam, Thrust, .820" x 1.060" x .070", Steel, 1936 - '99 <i>5 Pack</i>	—	25554-36	33-1011
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>each</i>	—	—	33-5206
	Washer, Cam, Thrust, .820" x 1.060" x .075", Steel, 1936 - '99 <i>5 Pack</i>	—	25555-36	33-1012
	Washer, Cam, Thrust, .820" x 1.060" x .080", Steel, 1936 - '99	—	25556-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .085", Steel, 1936 - '99	—	25557-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .090", Steel, 1936 - '99	—	25558-79	—
	Washer, Cam, Thrust, .820" x 1.060" x .095", Steel, 1936 - '99	—	25559-79	—

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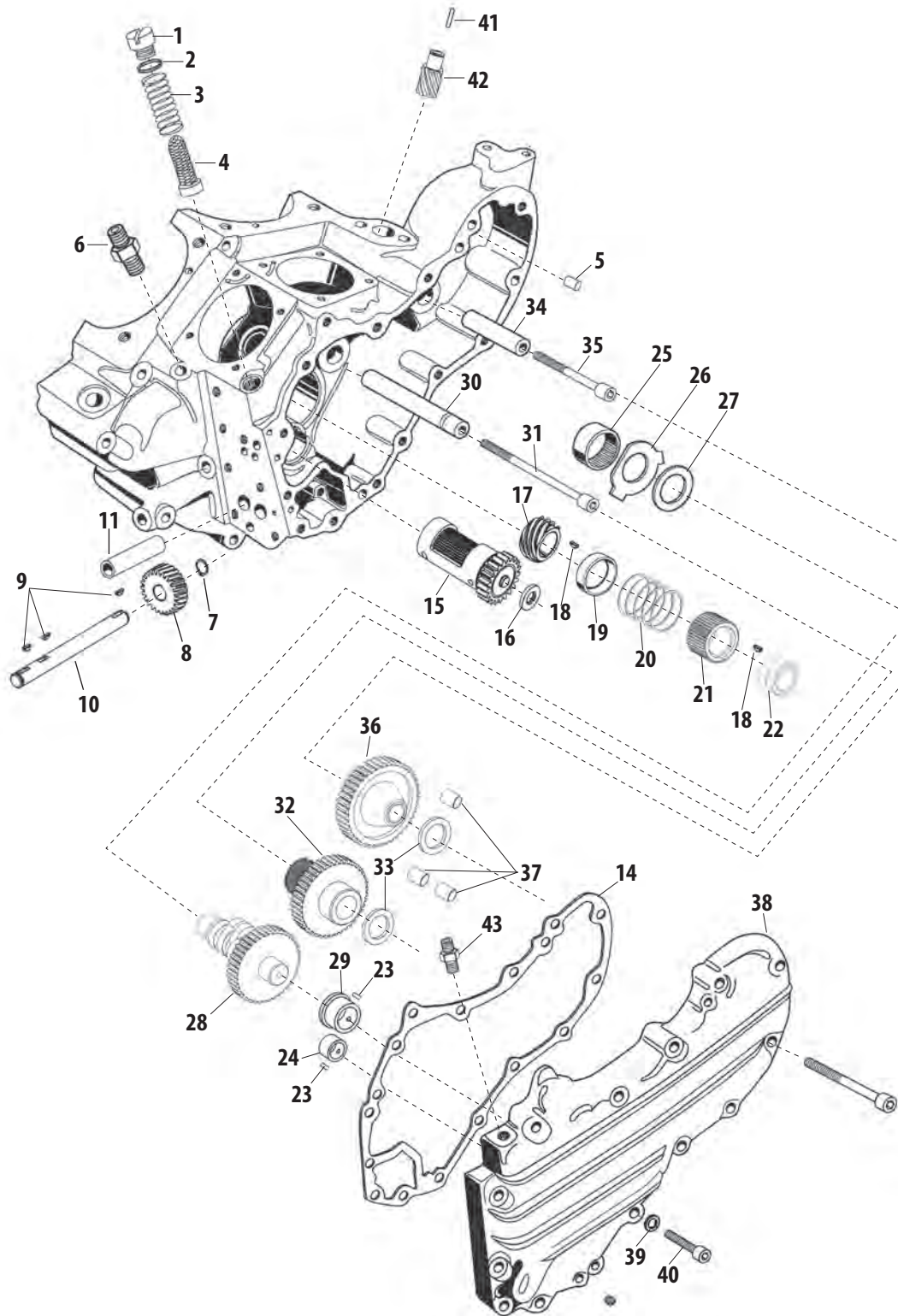
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CONTINUED: GENERATOR GEARCOVER REPLACEMENT PARTS FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
28	Cam, 346, 1936 - '47 OHV	614-36	25522-36	106-3676
	Cam, 1948 - '52 61" OHV	614-48A	25524-48	—
	Cam (H-Grind), 1948 - '57 <i>See chart for other Cam options</i>	614-48	25523-48, 25523-56	330-0164
	Cam (H-Grind), 1958-'69 <i>See chart for other Cam options</i>	—	25523-69	330-0170
	Cam (H-Grind), 1970 - '77	—	25523-70	330-0165
	Cam (H-Grind), 1978 - '84	—	25523-78	330-0166
29	Bushing, Cam, Bronze, 1936-'69 bt	661-36	25581-36	31-4025
30	Shaft, Circuit Breaker Drive Gear, 1936-'69 bt, 1936 - '69	—	25856-36	31-2037
31	Screw, Left Hand Thread, Late 1959 - '69	—	1430	—
	Screw, 1936 - E'59	637-36A	25859-36	—
32	Gear, Assembly, Circuit Breaker, Packaged, 1936-'69 bt	—	25850-36A	33-4215
33	Spacer, Idler And Circuit Breaker Gear (2), 1941 - 69 - FL, FLH <i>See chart for Shim size options</i>	—	25800-36	—
34	Shaft, Idler Gear, .5556" x 1.8760", AISA 8620H, 1936-'69 bt	637-36B	25791-36	31-2039
35	Screw, SHCS, 1/4-20 x 2", Zinc, ASTM A574-92A, 1936 - '69	—	25794-36	50-0013
36	Gear, Idler, Packaged, 1936-'69 bt	619-36	25775-36	33-4216
37	Bushing, Idler Gear (3), 1930 - '69	—	25785-30A	—
38	Gearcover, Ribless Notched & Riveted Early 1936	584-36	25216-36	—
	Gearcover, Ribless Rivited Mid 1936	584-36	25216-36	—
	Gearcover, Ribless Late 1936 - '39	584-36	25216-36	—
	Gearcover, 8 Rib Bossless Early & Mid 1940	584-36	25216-36	—
	Gearcover, 8 Rib Late 1940 - E'48 (Includes Hardware)	584-48	25216-48	—
	Gearcover, 8 Rib 1940 - E'48 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	584-48	25216-48	—
	Gearcover, 8 Rib Late 1948 - '53 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	584-48	25216-48	—
	Gearcover, 4 Rib 1954 - '62 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	25216-54	25216-58	—
	Gearcover, 4 Rib Outside Oiler 1963 - '64	—	25216-63	—
	Gearcover, Flat Side, Outside Oiler 1965 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	—	25216-65	—
	Gearcover, Flat Side 1966 - '69 (Includes Hardware) <i>See chart for compatible Gearcover Kit</i>	—	25216-66	—
39	Washer, 1/4", (12), Early 1936 Only	—	—	—
40	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadmium Plated, <i>each</i>	056	2341HW	106-2013
	Screw, Slotted Countersunk, Oval, 1/4-24 x 1-1/8", Cadmium Plated, <i>12 Pack</i>	—	—	106-2087
41	Pin, Roll, Coiled 7/64" diameter, .120" x .500", Steel <i>See chart for 1/8" diameter option</i>	—	255	50-8025
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt <i>See chart for compatible Circuit Breaker Gear</i>	056	32531-36	—
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt <i>See chart for compatible Circuit Breaker Gear</i>	1547-36	32531-36	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
1	Plug, Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>each</i>	31-6021
	Plug, Screw, Oil Pump/Check Valve/Relief Va, Bright Zinc Plated, Steel <i>5 Pack</i>	31-7005
2	O-ring, (-013), .437" ID x .565" OD, Viton®	50-8008
8	Gear, Pinion, Oil Pump Drive, 24 Tooth, 1936-'69 bt	33-4230
15	Gear, Kit, Breather, 1948-E'77 bt	33-4253
	Gear, Kit, Breather, +.030", 1948-E'77 bt	33-4263
21	Gear, Pinion, Packaged, Orange, 1954-E'77 bt	33-4121
	Gear, Pinion, Packaged, Black, 1954-E'77 bt	33-4122
	Gear, Pinion, Packaged, Red, 1954-E'77 bt	33-4123
	Gear, Pinion, Packaged, Blue, 1954-E'77 bt	33-4124
	Gear, Pinion, Packaged, White, 1954-E'77 bt	33-4126
	Gear, Pinion, Packaged, Brown, 1954-E'77 bt	33-4127
	Gear, Pinion, Packaged, Yellow, 1954-E'77 bt	33-4128
28	Camshaft, 450S, 1948-'69 bt	33-5062
	Camshaft, Assembly, FB300, 1948-'69 bt, Crane Cams®	1-0100
33	Shim, Circuit Breaker/Idler Gear, .050"	33-4221
	Shim, Circuit Breaker/Idler Gear, .054"	33-4222
	Shim, Circuit Breaker/Idler Gear, .058"	33-4223
	Shim, Circuit Breaker/Idler Gear, .062"	33-4224
	Shim, Circuit Breaker/Idler Gear, .066"	33-4225
38	Gearcover, Kit, Generator, KN-Series, Ribbed, Stock Pinion Shaft, Natural, 1940-'47 bt	106-3198
	Gearcover, Kit, Generator, P-Series, Ribbed, Stock Pinion Shaft, Natural, Late 1948-'53 bt	106-3499
	Gearcover, Kit, Generator, Bushing Style, Stock Style Case, Natural, Cast, 1954-'69 bt	31-0240
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1965 bt	106-1619
	Gearcover, Kit, Generator, Flatside, Stock Style, Natural, 1966-'69 bt	106-1625
41	Pin, Roll, 1/8" Diameter, .138" x .500", Steel	50-8030
42	Gear, Circuit Breaker, Packaged, 1936-'69 bt	33-4217

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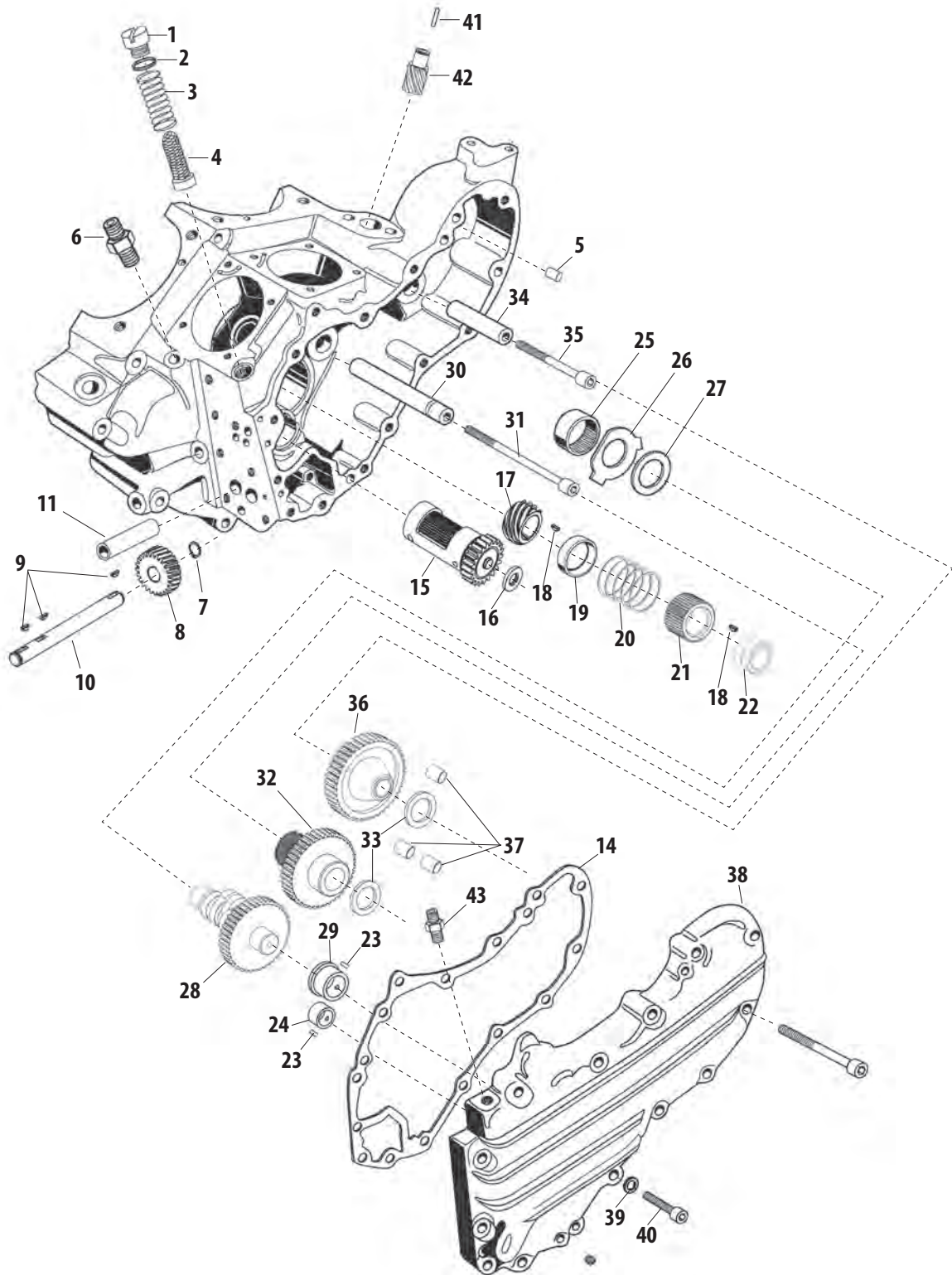
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CRANKCASE FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS (AND PANHEAD)

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Motor Fastening Bolt, Rear (2) 1936-'49	438-36	24794-36	—
	Bolt, 3/8-24 x 3-1/2 Hex. Hd. (2), 1941-'84	—	4435W	—
2	Washer, Motor Fastening Bolt Washer (3) 1936-'49	0224	6395	—
	Washer, 3/8 x 13/16 x 1/16 (2), 1941-'70	—	6701	—
3	Washer, 3/8 x 13/16 x 7/64 (4), 1963-'84	—	6400HB	—
	Nut, 3/8-24 x 15/32 x 9/16 Hex. (4), 1936-'66	0128	7809	—
4	Cotter Pin, (3), 1936-'49	0291	528	—
	Cotter Pin, 3/32 x 5/8 (4), 1941-'66	—	534	—
5	Motor Bolt Nut (1) 1937-'49	439-36	24797-36	—
6	Motor Bolt Lock Washer (1) 1937-'49	439-36A	24800-36	—
7	Motor Fastening Bolt, Front (2) 1937-'72	437-36	24791-36	—
8	Plug, Timing Hole, 1938-'69	2326-38	704	—
9	Drain Plug, 1937-'70	453-11	700	—
10	Nut, Crankcase Stud Nut (13) Crankcase Guard Rear Bolt Nut, (2) 1937-'49	0117	7752	—
	Nut, 5/16-24 x 1/4 x 1/2 Hex. 1941-Early '81; 1982-'84	0117W	7753	—
11	Crankcase Stud 5/16" x 5-7/8" 1948-'49 (Position A)	447-48	24807-48	—
12	Crankcase Stud 5/16" x 5-7/16" 1948-'49 (Position B & C) See chart for compatible Crankcase Stud	447-36	24806-36	—
13	Crankcase Breather Pipe Assembly 1948-'57 (Position D) See chart for compatible Crankcase Breather Tube	543-48	24912-48	—
	Crankcase Breather Pipe Assembly 1958-'63 (Position D) See chart for compatible Crankcase Breather Tube	—	24914-58	—
14	Crankcase Breather Pipe Assembly 1964 (Position D) See chart for compatible Crankcase Breather Tube	24912-48	24912-48A	—
	Crankcase Stud 5/16" x 6" (3) 1930-'49 (Position E, F G) See chart for compatible Crankcase Stud	447-30	24809-30	—
15	Crankcase Stud, 11/32 x 5-27/32 (F Position), 1948-'78	—	24815-40	—
	Crankcase Bolt 3/8" x 3-3/4" (1) 1930-'49 (Position H)	444-30	4432	—
16	Crankcase Bolt, 3/8-16 x 3-1/4 hex. hd. (2), 1930-'78 (Position H)	444-30	4432W	—
	Crankcase Bearing Spring Ring (2) 1940-'49	423-40	24702-40	—
17	Sprocket Shaft Bearing End (1) 1940-'54	421-40	24776-40	—
	Spacer, Sprocket Shaft - 0.336 Thick, 1955-'64	—	24029-55	—
18	Left Bearing Bushing, Standard 1940-'54	416-40	24621-40	—
	Left Bearing Bushing, +.002 O.S. 1940-'54	416-40B	—	—
	Left Bearing Bushing, +.005 O.S. 1940-'54	416-40C	—	—
	Left Bearing Bushing, (Timken®), 1955-'68	—	9029	—
19	Sprocket Shaft Bearing Washer (1) 1940-'54	422-40	24779-40	—
	Shim, Sprocket Shaft Bearing - 0.003, 1955-'68	—	23741-55	—
20	Left Roller Bearing Retainer (2) 1930-'54	417-30	24721-30	—
21	Left Bearing Roller (24) 1/4" x .490 Long Std. 1930-'54	2289-25	9220	—
	Left Bearing Roller (24) 1/4" x .490 Long .0002" O.S. 1930-'54	2289-25D	9221	—
	Left Bearing Roller (24) 1/4" x .490 Long .0004" O.S. 1930-'54	2289-25F	9222	—
	Left Bearing Roller (24) 1/4" x .490 Long .0006" O.S. 1930-'54	2289-25H	9223	—
	Left Bearing Roller (24) 1/4" x .490 Long .0008" O.S. 1930-'54	2289-25KA	9224	—
	Left Bearing Roller (24) 1/4" x .490 Long .0010" O.S. 1930-'54	2289-25MA	9225	—
22	Sprocket Shaft Bearing Spacer (1) 1937-'54	358-36	24781-36	—
23	Sprocket Shaft Bearing Complete, Standard, 1930-'54	419-30	24750-30	—
	Sprocket Shaft Bearing Complete, +.0002 O.S. 1930-'54	419-30D	24751-30	—
	Sprocket Shaft Bearing Complete, +.0004 O.S. 1930-'54	419-30F	24752-30	—
	Sprocket Shaft Bearing Complete, +.0006 O.S. 1930-'54	419-30H	24753-30	—
	Sprocket Shaft Bearing Complete, +.0008 O.S. 1930-'54	419-30KA	24754-30	—
	Sprocket Shaft Bearing Complete, +.0010 O.S. 1930-'54	419-30MA	24755-30	—
24	Washer, Right Bearing (1) 1940-'57	425-40	24695-40	—
	Washer, Right Bearing (2) 1958-'84	—	24692-58	—
25	Retainer, Right Roller Bearing (2) 1937-'57	415-36	24646-36	—
	Retainer, Right Roller Bearing (2) 1958-'84	3967-35	43578-35	—
26	Roller, Right Bearing (12) 1/4" x .600 Long Standard 1937-'57	306-26	9261	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0002" O.S. 1937-'57	306-26D	9262	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0004" O.S. 1937-'57	306-26F	9263	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0006" O.S. 1937-'57	306-26H	9264	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0008" O.S. 1937-'57	306-26KA	9265	—
	Roller, Right Bearing (12) 1/4" x .600 Long .0010" O.S. 1937-'57	306-26MA	9266	—
	Roller, Right Bearing, 0.250 x 0.490 Long Standard (28) 1958-'81	—	9220A	—
	Roller, Right Bearing, +.0001 O.S. (28) 1958-'84	—	9219	—
Roller, Right Bearing, +.0002 O.S. (28) 1958-'84	—	9221A	—	
	Roller, Right Bearing, +.0003 O.S. (28) 1958-'84	—	9218	—

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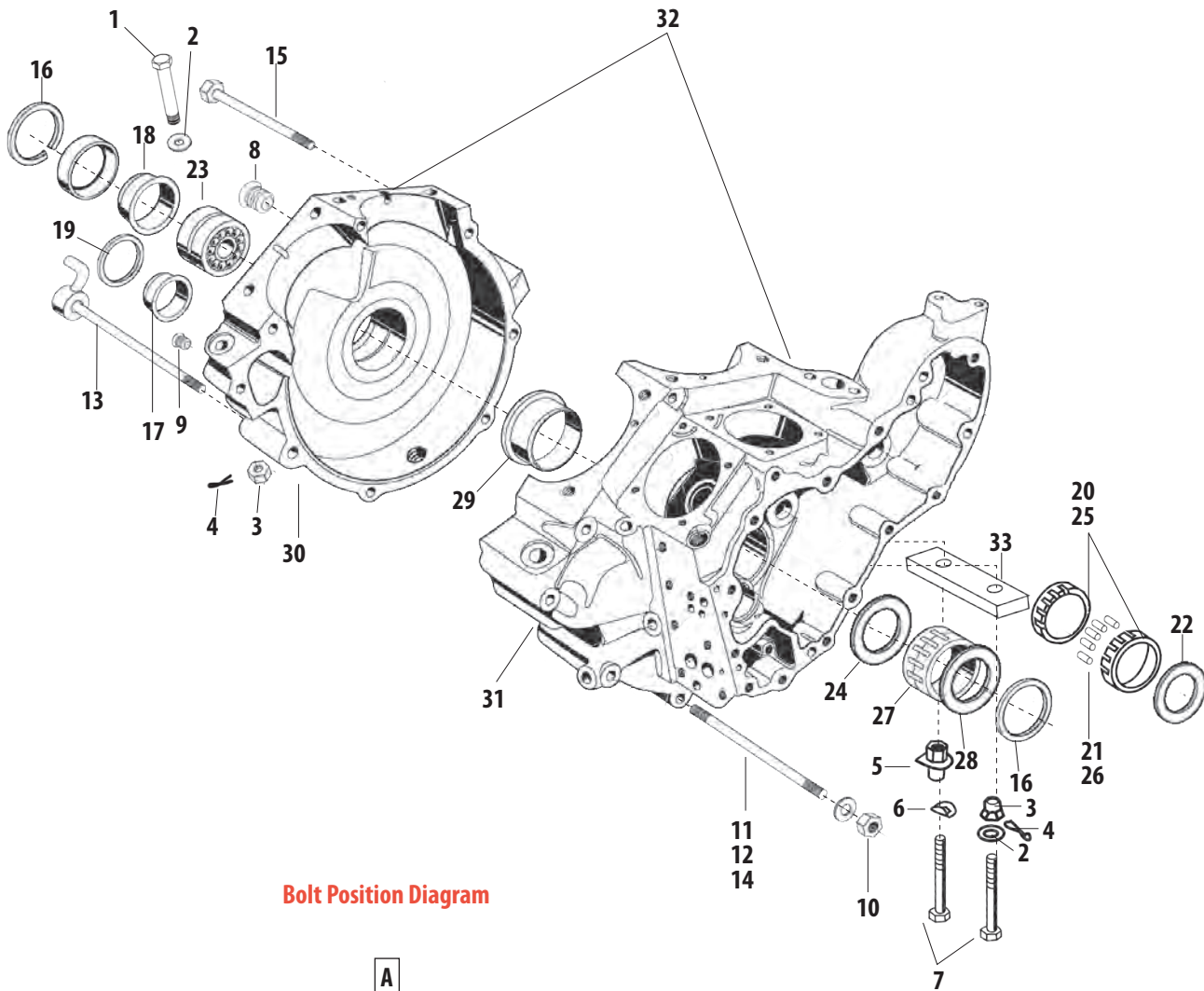
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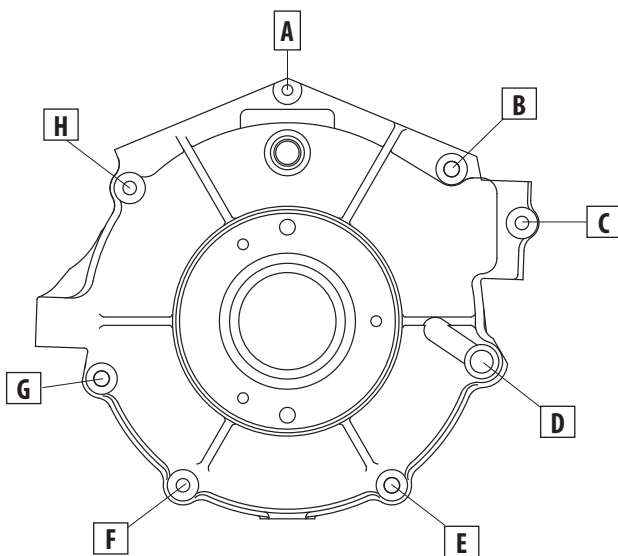
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Bolt Position Diagram



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CRANKCASE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
	Roller, Right Bearing, +.0004 O.S. (28) 1958-'84	—	9222A	—
	Roller, Right Bearing, +.0005 O.S. (28) 1958-'84	—	9217	—
	Roller, Right Bearing, +.0006 O.S. (28) 1958-'84	—	9223A	—
	Roller, Right Bearing, +.0008 O.S. (28) 1958-'84	—	9224A	—
	Roller, Right Bearing, +.0010 O.S. (28) 1958-'84	—	9225A	—
27	Right Bearing, Complete, Standard 1937-'57	414-36	24650-36	—
	Right Bearing, Complete, +.0002 O.S. 1937-'57	414-36D	24651-36	—
	Right Bearing, Complete, +.0004 O.S. 1937-'57	414-36F	24652-36	—
	Right Bearing, Complete, +.0006 O.S. 1937-'57	414-36H	24653-36	—
	Right Bearing, Complete, +.0008 O.S. 1937-'57	414-36KA	24654-36	—
	Right Bearing, Complete, +.0010 O.S. 1937-'57	414-36MA	24655-36	—
	Right Bearing, Standard 1958-'81	—	24650-58	—
	Right Bearing, +.0001 O.S. 1958-'84	—	24650-81	—
	Right Bearing, +.0002 O.S. 1958-'84	—	24651-58	—
	Right Bearing, +.0003 O.S. 1958-'84	—	24649-81	—
	Right Bearing, +.0004 O.S. 1958-'84	—	24652-58	—
	Right Bearing, +.0005 O.S. 1958-'84	—	24645-81	—
	Right Bearing, +.0006 O.S. 1958-'84	—	24653-58	—
	Right Bearing, +.0008 O.S. 1958-'84	—	24654-58	—
	Right Bearing, +.0010 O.S. 1958-'84	—	24655-58	—
28	Washer, Right Bearing (Gear Side) (1) 1940-'57	414-40	24690-40	—
	Washer, Right Bearing (Gear Side) (2) 1958-'84	—	24692-58	—
29	Bushing, Right Crankcase (1) Standard 1940-'57	413-40A	24599-40	—
	Bushing, Right Crankcase (1) +.002 O.S. 1940-'57	413-40AB	24600-40	—
	Bushing, Right Crankcase (1) +.005 O.S. 1940-'57	413-40AC	24601-40	—
	Bushing, Right Crankcase, Standard, 1958-'84 See chart for compatible Race Bearing	—	24599-58B	—
	Bushing, Right Crankcase, +.002 O.S. O.D., 1958-'84	—	24600-58A	—
	Bushing, Right Crankcase, +.005 O.S. O.D., 1958-'84 See chart for compatible Race Bearing	—	24601-58B	—
30	Left Crankcase 1940-1947 61" OHV	406-40A	406-40A	—
	Left Crankcase 1941-1947 OHV	406-41	24540-41	—
	Left Crankcase 1948 and 1949 OHV	406-48	24540-48	—
31	Right Crankcase 1940-1947 61" OHV	410-40A	410-40A	—
	Right Crankcase 1941-1947 OHV	410-41	24569-41	—
	Right Crankcase 1948 and 1949 OHV	410-48	24569-48	—
32	Set of Crankcases 1936-1939 OHV See chart for complete Crankcase Assembly	403-36	403-36	—
	Set of Crankcases 1940 OHV See chart for complete Crankcase Assembly	403-40	403-40	—
	Set of Crankcases 1941-1947 OHV See chart for complete Crankcase Assembly	402-41	24520-41	—
	Set of Crankcases 1948-Early '52 OHV See chart for complete Crankcase Assembly	402-48	24520-48	—
	Set of Crankcases Mid-Late 1952 OHV (added right side boss for oil screen & check valve) See chart for complete Crankcase Assembly	402-48	24520-48	—
	Set of Crankcases 1953-1954 OHV (no deck oil troughs & added right race lock) See chart for complete Crankcase Assembly	—	24520-53	—
	Set of Crankcases 1955-1957 OHV (added timken left and 2" right bearings) See chart for complete Crankcase Assembly	—	24519-55	—
	Set of Crankcases 1958-1962 OHV (No gen strap boss, gen mounting bolt-5/16" & added 2.13" right bearing) See chart for complete Crankcase Assembly	—	24519-58	—
	Set of Crankcases 1963-1964 OHV (External top end oiling, no case deck oiling) See chart for complete Crankcase Assembly	—	24519-63	—
	Set of Crankcases 1965 OHV (Left Aluminum primary, no breather bolt, no right relay plate boss) See chart for complete Crankcase Assembly	—	24519-65	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT Part No.
12	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel	31-2003
13	Tube, Crankcase Breather, Powdercoated, Gloss Black, Steel, 1936-'69 bt	106-4795
14	Stud, Crankcase Alignment, 5/16-24 UNF x 6.050", Zinc, Steel	31-2034
29	Race, Right, Main Bearing, Standard, 1958-'99 bt	31-4004
	Race, Right, Main Bearing, +.005"	31-4007
32	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1936-'47	31-0006
	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1948-'64	31-0008
	Crankcase, Assembly, Stock Bore, bt, 2B Generator, Natural, 1965-'69	31-0010

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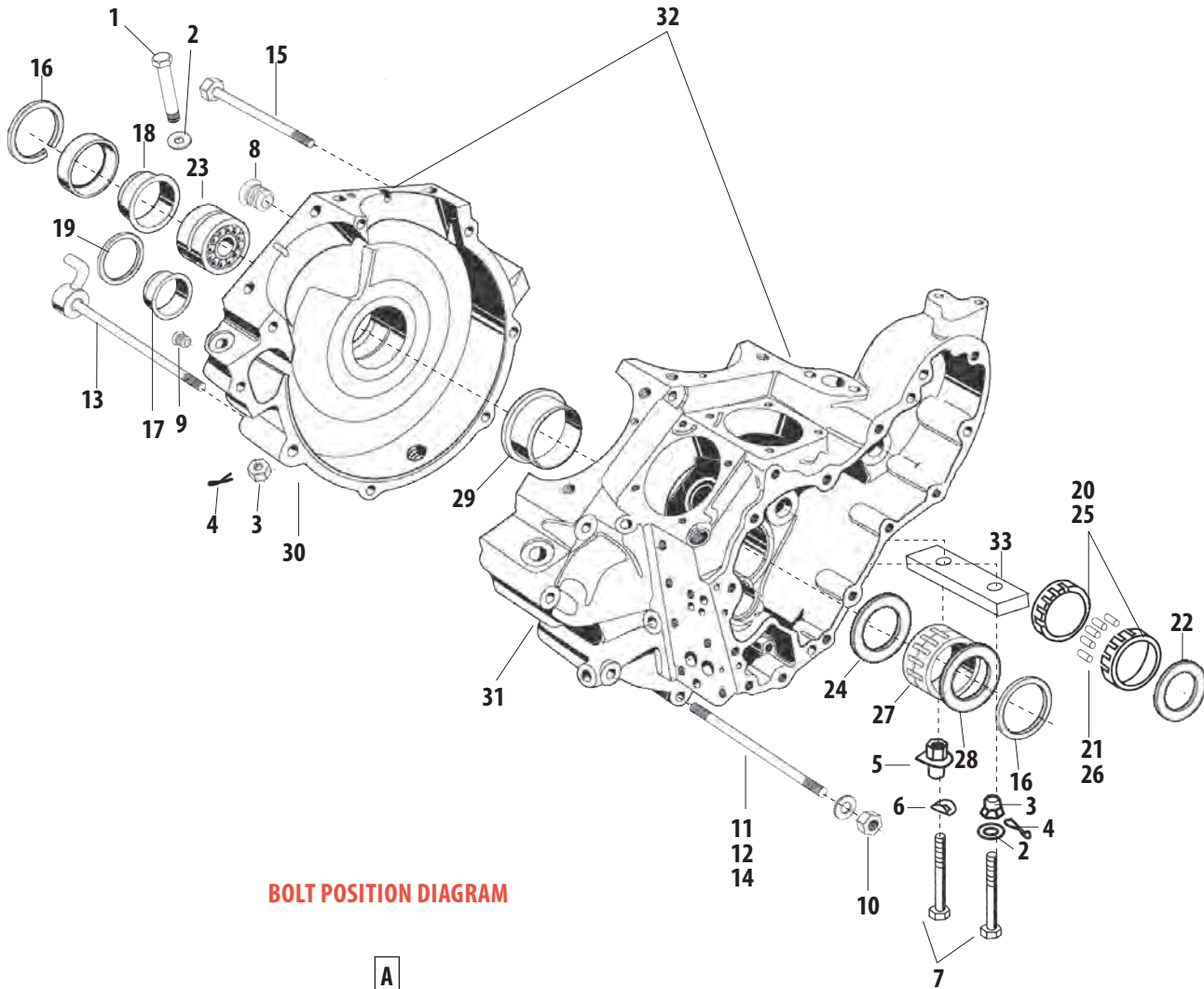
Parts for Shovelheads

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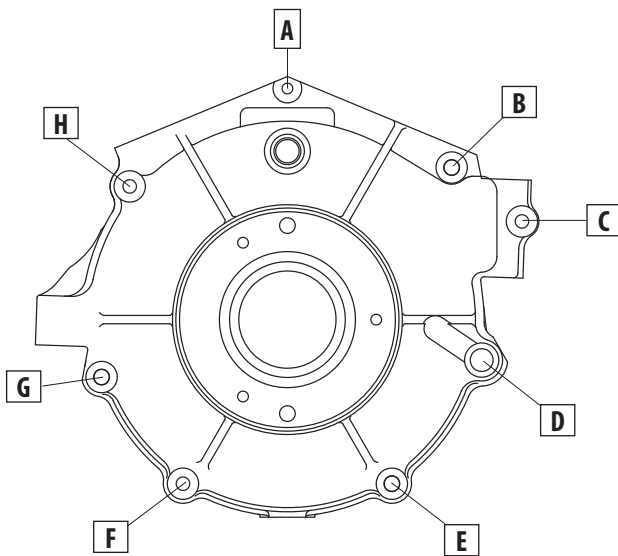
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BOLT POSITION DIAGRAM



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KICKER FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS (AND PANHEAD & FLATHEAD)

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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Bolt, 3/8-24 x 1-1/8 Hex. Hd, 1940-'69 (Not Shown)	2100-16	4336W	—
2	Lockwasher, 3/8, 1940-'69 (Not Shown)	—	7038	—
	Lockwasher, Late 1930-'49 (Not Shown)	0261	7045	—
3	Bushing, Pedal Pin, Late 1930-'69 (Not Shown)	2101-31	33213-31	—
4	Washer, Pedal Pin, Late 1930-'69 (Not Shown)	2102-30	33215-30	—
5	Starter Pedal, Complete (Black Rubber), 1940-'67 (Not Shown)	—	33175-16A	—
	Starter Pedal, Complete (Black Rubber), Late 1929-'49 (Not Shown)	2091-16A	33175-16	—
	Starter Pedal Plastic Complete (Red), 1929-'49 (Not Shown)	2091-16C	33176-16	—
	Starter Pedal Plastic Complete (Yellow), 1929-'49 (Not Shown)	2091-16D	33177-16	—
6	Pedal Cover, Starter (Black), 1963-'67 (Not Shown)	—	33182-63A	—
	Pedal Rubber (2), Starter (Black), 1917-'49 (Not Shown)	2092-17	33182-17	—
	Pedal Block Plastic (1), Starter (Red), 1945-'49 (Not Shown)	2092-45C	33183-45	—
	Pedal Block Plastic (1), Starter (Yellow), 1945-'49 (Not Shown)	2092-45D	33184-45	—
7	Axle Plate, Starter Crank Pedal, 1963-'69 (Not Shown)	—	33202-63	—
	Axle, Starter Crank Pedal, 1929-'49 (Rubber Pedal) (Not Shown)	2095-16	33195-45	—
	Axle, Starter Crank Pedal, Late 1945-'49 (Plastic Pedal) (Not Shown)	2095-45	33192-16	—
8	Starter Crank, Only (Black), 1954-'69 (Not Shown)	—	33068-54	—
	Starter Crank, 1937-'53 (Not Shown)	2076-36	33063-36	—
9	Bolt, 3/8-24 x 1-3/4 Hex. Hd, 1940-'69 (Not Shown)	—	4411	—
10	Starter Crank Shaft, 1954-'69 (Not Shown)	—	33096-54B	—
11	Stud, Starter Spring W/Spring Cover Screw Hole, 1937-'69 (Not Shown)	—	33152-59	—
	Stud, Starter Spring, 1937-'49 (Not Shown)	2086-36	33090-36	—
12	Spring, Starter Crank, 1940-'69 (Not Shown)	2084-36	33085-36	—
13	Washer, Starter Crank, 1940-'69 (Not Shown)	2077-36	33080-36	—
14	Upper Bushing, Starter Cover, 1940-69	—	33291-36	106-6474
15	Lower Bushing, Starter Cover, 1940-69	—	33290-38	106-6473
16	O-Ring, 1941-'69	—	11101	—
	Starter Crank Oil Seal, Late 1937-'49	2078-37	33076-37	—
17	Bushings. Pair. Starter Cover, 1941-'69	2127-37A	33288-37	—
18	Nut, 5/16-24 x 1/4 x 1/2 Hex. (9), 1940-'69 (Not Shown)	0117W	7753	—
19	Washer, 11/32 x 11/16 x 1/16 (9), 1940-'69 (Not Shown)	—	6016	50-7034
	Washer, (9), 1937-'49	0214	6320	50-7034
20	Starter Cover, Transmission, 1940-'47 (G6 Date Code)	2126-36	33277-36A	106-6479-G6
	Starter Cover, Transmission, 1948-'50 (J7 Date Code)	2126-36	33277-36A	106-6479-J7
	Starter Cover, Transmission, 1937-'86 (Universal with No Date Code)	2126-36	33277-36A	106-6479-00
21	Gasket, Starter Cover, 1940-'69	2132-36	33295-36	560-0012
22	Filler Plug, Starter Cover, 1940-'69	—	37072-79	—
	Filler Plug Hex, Starter Cover, 1937-'49	2326-36	704	—
23	Nut, 5/8-18 x 1/4 x 9/16 Hex, 1937-'69 (Not Shown)	2274-36	7977	—
24	Key, Starter Clutch (2), 1916-'69 (Not Shown)	2147-16	33393-50	—
25	Lockwasher, Starter Clutch, 1939-'69 (Not Shown)	2149-39	33396-39	—
26	Starter Clutch, 1939-'69 (Not Shown)	2146-39	33381-39	—
27	Pin, Starter Crank Gear, 1939-'69 (Not Shown)	2143-36A	33355-36	—
28	Cam Plate, Starter Crank Gear, 1939-'69 (Not Shown)	2143-36B	33358-36	—
29	Gear, Starter Crank - 24 T, 1939-'69 (Not Shown)	2144-36	33350-36	—
30	Rivet, 3/16 x 5/32 (3), 1939-'69 (Not Shown)	0312	8241	—
31	Starter Gear, Mainshaft - 16 T., 1939-'49 (Not Shown)	2155-36	33430-36	—
	Starter Gear, Mainshaft - 16 T., 1967-'69 (Not Shown)	—	33430-50	—
	Starter Gear, Mainshaft - 14 T., Late 59-'66 (Not Shown)	—	33430-59	—
32	Bushing, Mainshaft Starter Gear, 1931-Early '50 (Not Shown)	2155-31A	33436-31	—
	Bushing, Mainshaft Starter Gear, Late 50-'69 (Not Shown)	—	33438-50	—
33	Spring, Starter Clutch, 1940-'69 (Not Shown)	2152-36	33391-36	—
34	Lockwasher, Starter Crank (2), 1916-'69 (Not Shown)	2080-16	33082-16	—
35	Nut, 1/2-20 x 7/16 x 7/8 Hex, 1937-'69 (Not Shown)	2079-36	7911	—
36	Stud, Starter Cover (9), 1937-'69 (Not Shown)	2134-36	33298-65	—
37	Screw, No. 10-24 x 7/16 Pozidriv Hd, 1940-'69 (Not Shown)	—	2664	—
38	Lockwasher, No. 10 External Tooth, 1940-'69 (Not Shown)	—	7220	—
39	Spring Cover Kit, Complete, 1940-'69 (Not Shown)	—	33150-59	—



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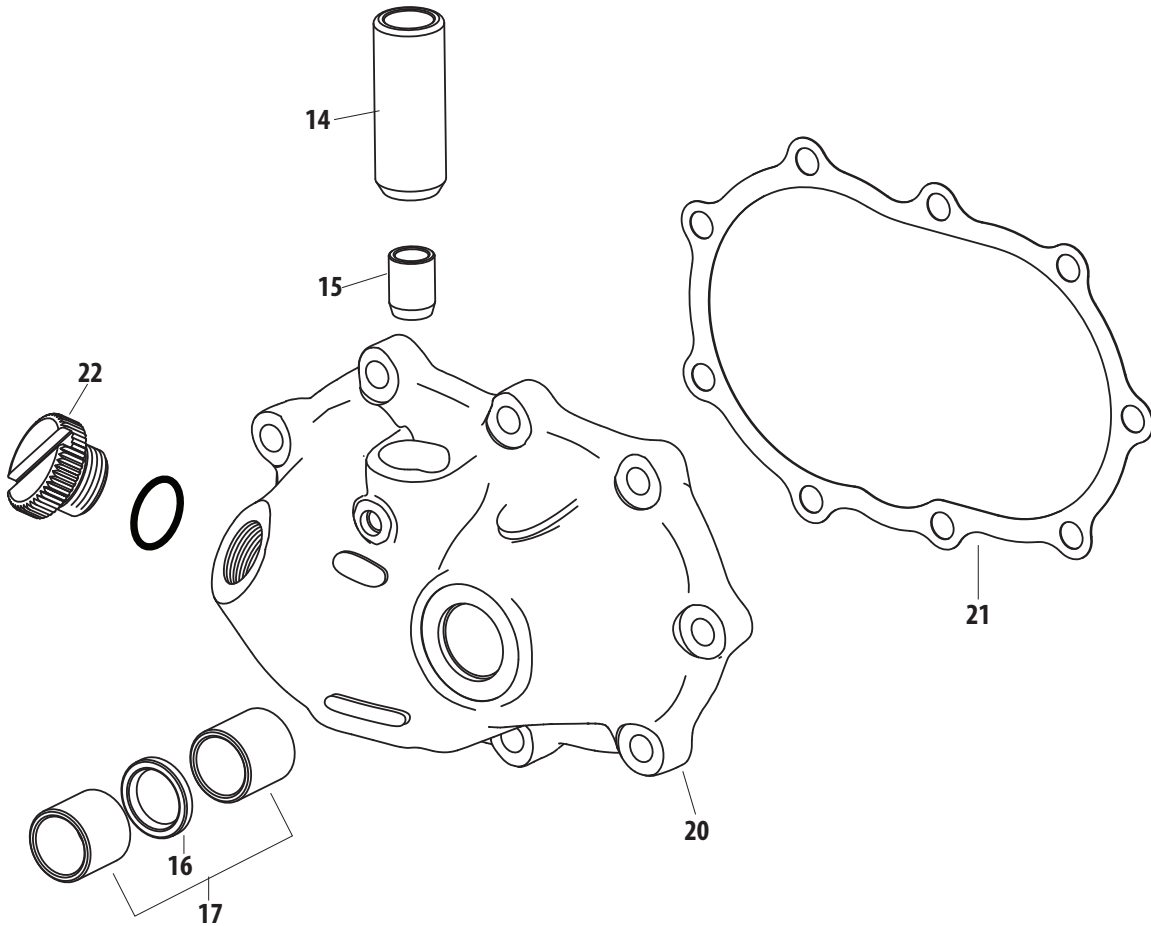
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OIL PUMP REPLACEMENT PARTS FOR HARLEY-DAVIDSON® KNUCKLEHEAD MODELS

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Nut, 1/4-24 x 5/32 x 5/16 Hex., 1950 - '79	—	7691W	—
2	Lockwasher, 1/4, 1936 - '84	0256, 362	7035, 7036	50-7019
3	Oil Pump Mounting Stud Nut, 1941 - '49	591-41A	24831-41	—
4	Fitting, Oil Line (Short), 1948 - '64	3577-15	63533-15	—
5	Oil Pump Mounting Bolt, 1941 - '49	692-41	3834	—
6	Cover, Oil Pump, 1936 - '40	682-36	—	—
	Cover, Oil Pump, 1941 - '48 Non Chain Oiler	682-41	26236-41	—
	Cover, Oil Pump, 1941 - '48 Chain Oiler	682-41A	—	—
7	Oil Pump Governor Rotor, 1941 - '48	687-41C	26300-41	—
8	Oil Pump Cover Gasket, 1941 - '49	685-41	26257-41	—
9	Oil Pump Cover Plate, 1941 - '47	683-41	26250-41	—
	Oil Pump Cover Plate, 1948	683-49A	—	—
	Oil Pump Cover Plate, 1949	683-49	26251-49	—
10	Gasket, Oil Pump Cover, 1941 - '49	684-41	26255-41	—
11	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>each</i>	695-36	26348-36	50-8058
	Retaining Ring, Drive Shaft, .382" x .021", 1936 - '84 <i>10 Pack</i>	—	—	50-8106
12	Drive Gear, 1936 - '84 ('36-'67 Scavenge, '68-'84 Feed)	—	26328-74	31-6015
	Scavenger Pump Drive Gear, 1936 - '49 (Keyslot Only)	690-36	26320-36	31-6015
	Scavenger Pump Drive Gear, 1941 (Groove & Keyslot)	690-41	—	31-6015
13	Scavenger Pump Idler Gear, 1936 - '40 (23/64" Id) (Inner Notch & No Rotor Drive Slot)	691-36	26325-36	—
	Scavenger Pump Idler Gear, 1942 - '48 (23/64" Id)(Rotor Drive Slot & No Inner Notch)	691-42	—	—
	Scavenger Pump Idler Gear, 1941 - Mid '62 (23/64" Id) (Notch & Rotor Slot-Retrofit - '36)	691-49	26325-49	—
	Idler Gear, Late 1962 - '84 (7/16" Id) (L'62-'67 Scavenge, '68-'99 Feed)	—	26326-62A	31-6016
14	Oil Pressure Switch Only, 1941 - '84	—	26552-72	—
	Oil Pressure Switch, 1936 - '49	480-39	26551-39	—
15	Nipple Packing Washer, 1946 - '49	2461-36A	6375	—
16	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>each</i>	701-36	26362-36, 26263-80	31-6021
	Plug, Screw, Oil Pump/Check Valve/Relief Valve, Bright Zinc Plated, Steel, 1937 - '84 <i>5 Pack</i>	—	—	31-7005
17	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>each</i>	703-36	26363-36, 26363-56,	31-6022
	Spring, Check Valve, .020" Wire, .265" x .319" x 1.940", Music Wire, 1936 - '84 <i>10 Pack</i>	—	26262-80	31-6092
18	Ball, Check Valve, .375", Stainless Steel 1936 - '84	283	8866, 8873	50-8091
19	Body, Oil Pump, 1936 - '40	678-36	—	—
	Body, Oil Pump, 1941 - '48 (w/o Rear Chain Oiler)	678-41	—	—
	Body, Oil Pump, 1941 - '48 (With Rear Chain Oiler)	678-41A	26217-41	—
	Body, Oil Pump, 1948 - '49	678-48	—	—
20	Drive Gear, 1936 - '47 (.990 OD x 7/16" ID x .250 Wide)	688-36	26315-36	—
	Drive Gear, 1948 - '67 (.990 OD x 7/16" ID x .380 Wide)	688-48	26315-48	—
21	Idler Gear, 1936 - '47 (.990 OD x 23/64" ID x .250 Wide) (w/Crankcase Stub)	689-36	26317-36	—
	Idler Gear, 1948 - '61 (.990 OD x 23/64" ID x .380 Wide) (w/Crankcase Stub)	689-48	26317-48	—
22	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>each</i>	634-15	26347-15, 26348-15	50-8220-S
	Key, Drive Shaft, 1936 - '49, 1941 - '84 <i>10 Pack</i>	—	—	50-8229
23	Key, Oil Pump Gear, 1936 - '67	693-36	26340-36	—
24	Drive Shaft, 1936 - '67	638-36	26346-36	—
25	Gasket, Oil Pump Body, 1936 - '40	589-36	26244-36	—
	Gasket, Oil Pump Body, 1941 - '67	589-41	26245-41	—
26	Mounting Stud, 2-1/4, 1941 - '67	591-36A	24820-36	—
27	Mounting Stud, 1-11/16, 1941 - '67	591-36	24819-36	—
28	Screw, Bypass Cover, 1936 - Mid '52 & Late '54 - '67	707-36	26367-36	—
29	Bypass Valve Adjusting Screw, 1937 - '49	711-36	26368-36	—
30	Spring, Relief Valve, .040" Wire, .242" x .324" x 2.32", Astm A-229, 1936 - '84	713-36, 713-42	26374-42, 26374-54, 26207-83	31-6018
31	Adjusting Screw Washer .002", 1933 - '49	674-32	6170	—
32	Washer, 13/64 x 3/8 x 1/32 (Brass) 1933 - '69	0202	6150, 6156	50-7008
33	Adjusting Screw, Chain Oiler (Hex. Hd.) 1941 - '64; 1968 - Early '72	—	63610-70	31-6026
	Adjusting Screw, Chain Oiler (Slot Hd.) 1933 - Early '49	672-32	26383-32	31-6026

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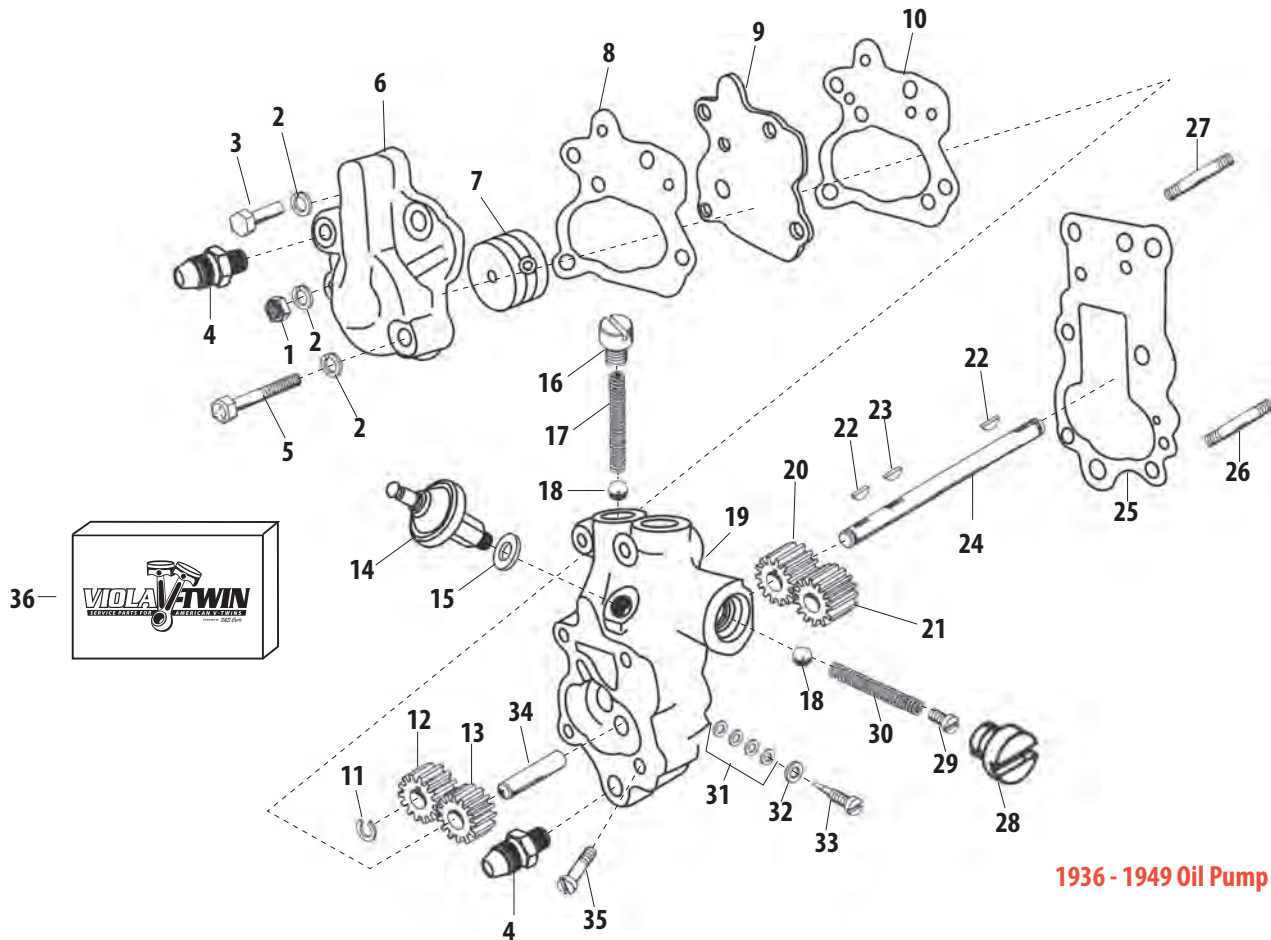
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1936 - 1949 Oil Pump

#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
34	Idler Shaft, 1936 - '40	697-36	—	—
	Idler Shaft, 1941 - Mid '62	697-41	26328-41	—
35	Oil Pump Mounting Screw, 1941 - '49	692-41A	1397	—
36	Hardware Kit, Oil Pump Cover, Billet, 1936-'91 bt	—	—	31-6283
	Hardware Kit, Chain Oiler, 1936-'91 bt	—	—	31-6291
	Hardware Kit, Oil Pump Mounting, Billet, 1936-Up bt	—	—	31-6288
37	Oil Pump Assembly, 1936 - '40 See chart complete Billet Oil Pump Kit	587-36	25275-36	—
	Oil Pump Assembly, 1941 - '48 (w/o Rear Chain Oiler) (Last Version of the Functional Rotor Cover) See chart complete Billet Oil Pump Kit	587-41	26201-41	—
	Oil Pump Assembly, 1941 - '48 (With Rear Chain Oiler) (Last Version of the Functional Rotor Cover) See chart complete Billet Oil Pump Kit	587-41A	26201-41A	—
	Oil Pump Assembly, 1948 - '49 (Rotor Style Cover But No Rotor) See chart complete Billet Oil Pump Kit	587-48	26201-48	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) Note: These products are compatible replacements as assemblies.

#	Description	VVT Part No.
37	Oil Pump, Kit, Universal, Silver Powdercoat, Billet, 1936-'69 bt	106-4688
	Oil Pump, Kit, Universal, Polished, Billet, 1936-'69 bt	31-6200
	Oil Pump, Kit, Universal, Polished, Billet, 1970-'91 bt ('73-E'81 req case mod - drill jig 53-0013)	31-6203

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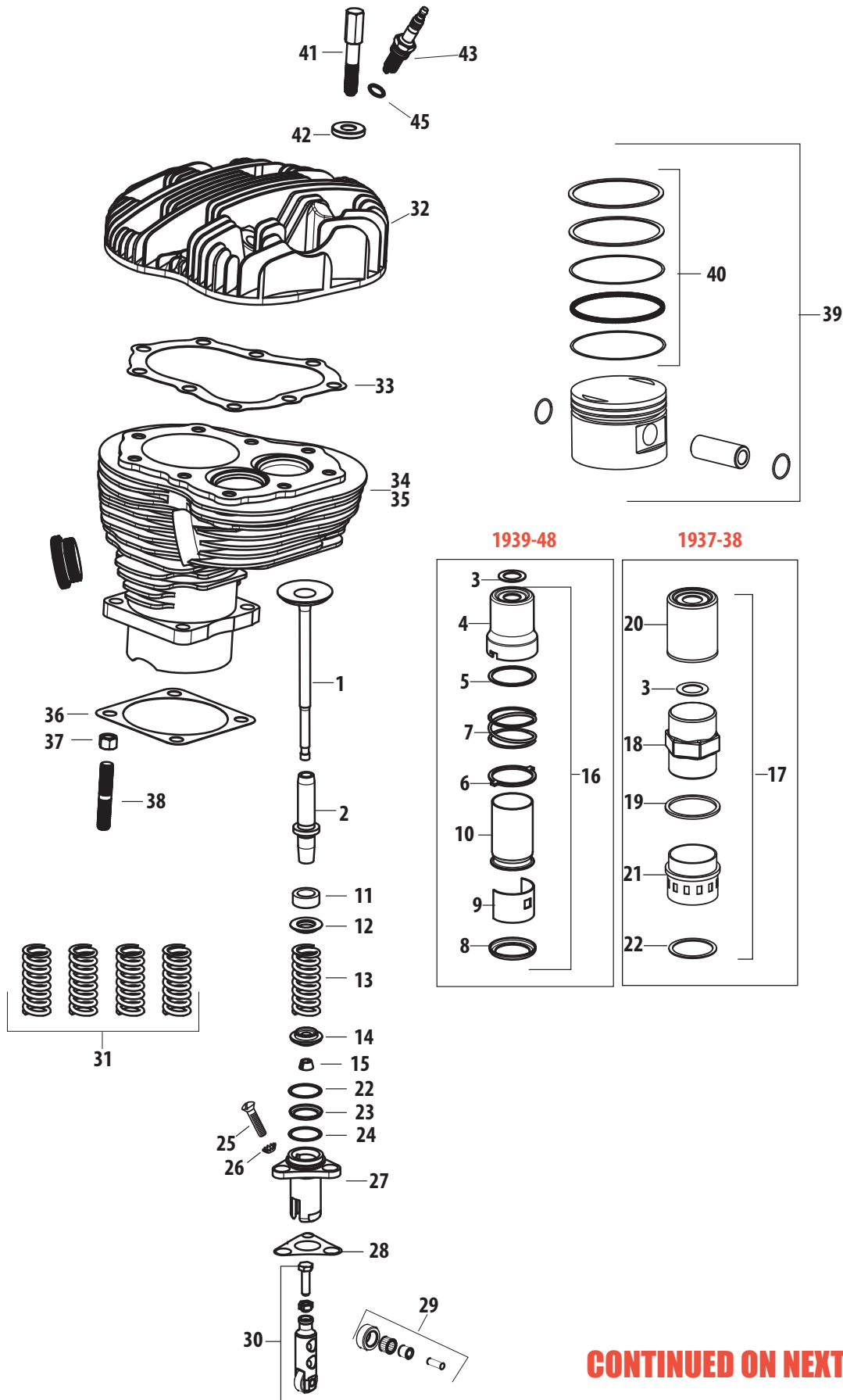
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#	Description	Old H-D® PN	H-D® PN	VVT PN
1	Valve, Intake, Forged, 74", 1930-'40 bt	163-37	18072-37	900-0210
	Valve, Exhaust, Forged, 74", 1930-'40 bt	165-37	18082-37	900-0211
2	Valve Guide, Honed, Cast Iron, 1930-'40 bt	166-30	18170-30	900-0209
	Valve Guide +.001 Os 1930 To 1948 Side Valves	166-30A	18171-30	—
	Valve Guide +.002 Os 1930 To 1948 Side Valves	166-30B	18172-30	—
3	Valve Guide Oil Seal 1938 To 1948 Side Valves	167-38	18198-38	—
4	Valve Spring Cover, Upper, 1939-'48	173-39	18238-39	—
5	Upper Cover Cork Washer 1939 To 1948 Side Valves	173-39A	18245-39	—
6	Upper Cover Cork Washer Retainer 1939 To 1948 Side Valves	173-39B	18246-39	—
7	Valve Spring Cover Spring, 1939-'48	173-39C	18247-39	—
8	Valve Spring Cover Spring Lower Washer, 1939-'48	173-39D	18248-39	—
9	Lower Valve Spring Cover, (Outside), 1939-'48	175-39	18254-39	—
10	Lower Valve Spring Cover, (Inside), 1939-'48	174-39	18256-39	—
11	Upper Spring Collar Spacer 1937 To 1948 Side Valves <i>See chart for complete Valve Spring Kit</i>	171-37	18223-37	—
12	Upper Spring Collar 1930 To 1948 Side Valves <i>See chart for complete Valve Spring Kit</i>	170-30A	18221-30	—
13	Valve Spring 1930 To 1948 Side Valves <i>See chart for complete Valve Spring Kit</i>	168-30B	18200-30	—
14	Lower Spring Collar 1930 To 1948 Side Valves <i>See chart for complete Valve Spring Kit</i>	171-30	18222-30	—
15	Valve Key 1937 To 1948 Side Valves <i>See chart for complete Valve Spring Kit</i>	172-30	18228-30	—
16	Valve Spring Cover Kit (4 Used) 1939 To 1948 Side Valves (includes: #4, 5, 6, 7, 8, 9, 10)	174-39A	18236-39	—
17	Valve Spring Cover Kit (4 Used) 1937 To 1938 Side Valves (includes: 3, 18, 19, 20, 21, 22)	—	18236-37	—
18	Lower Valve Spring Cover 1930-38	—	174-30	—
19	Valve Cover Packing 1930-38	—	18261-30	—
20	Top Spring Cover Approx. 1-5/8" 1937-38	—	173-37	—
21	Lower Valve Spring Cover 1937-38	—	174-30B	—
22	Lower Cork Cover Washer, 1937-'38	175-39A	18257-39	—
23	Cork Washer Retainer	175-39B	18258-39	—
24	Lower Cover Asbestos Gasket	175-39C	18259-39	—
25	Screw, Slotted, Oval, Machined, 1/4-24 x 5/8", Cadmium Plated, Steel	057	2329	106-3847
26	Washer, Countersunk, External Tooth, 1/4" x 1/2", Cadmium Plated, Steel	0365	7231	106-3848
27	Tappet Guide - Rear Cylinder 1939-48	—	18612-39	—
	Tappet Guide - Front Cylinder 1939-48	—	18611-39	—
	Tappet Guide - Front Cylinder, Screw on Style 1930-38	—	18606-30	—
	Tappet Guide - Rear Cylinder, Screw on Style 1930-38	—	18605-30	—
28	Gasket - Tappet Guide 1930-48	—	18631-30	—
29	Tappet Roller Kit w/Pin 1929-Up, Crane Cams®	—	18534-29	3-0101
30	Tappet, Assembly, Standard, 1929-'73 SV bt <i>each</i>	200-29	18490-29	106-5872
	Tappet, Set, Standard, 1929-'73 SV bt <i>2 Pack</i>			106-5875
	Tappet, Assembly, +.005, 1929-'73 SV bt <i>each</i>			106-5876
	Tappet, Set, +.005, 1929-'73 SV bt <i>2 Pack</i>			106-5879
31	Spring, Kit, Valve, Single Valves, 1941-'51 WR, 1952-'53 KR, RLDR, WLDR, WR	—	80168-32	90-2345
32	Head, Set, Natural, Aluminum, 1937-'48 UL	—	—	106-2475
	Head, Set, Natural, Aluminum, 1937-'48 UL	9-40A	16661-40	106-2475
	Head, Set, Natural, Aluminum, 1937-'48 UL	10-40A	16661-40	106-2475
	Head, Set, Natural, Aluminum, 1937-'48 UL	—	—	106-2475
	Head, Set, Natural, Aluminum, 1937-'48 UL	—	—	106-2475
	Head, Set, Natural, Aluminum, 1937-'48 UL	—	—	106-2475
33	Cylinder Head Gasket, Blue Teflon 1936 To 1948--Side Valves	—	16768-36	—
	Gasket, Head, Flathead Power®, Copper, 1937-'48 UL <i>each</i>	11-36A	16769-36	106-2680
	Gasket, Set, Head, Flathead Power®, Copper, 1937-'48 UL <i>2 Pack</i>			106-2669



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#	Description	Old H-D® PN	H-D® PN	VVT PN
34	Cylinder, Kit, 3-7/16" Bore, 13 Fin, 6.140", Hi-Temp Black, 1937-'48 SV bt	—	16472-37	910-0169
	Front Cylinder with Piston Assembly, 1937 To 1941, 13 Fins--80" Side Valves	4-37C	16481-37	—
	Rear Cylinder with Piston Assembly, 1937 To 1941, 13 Fins--80" Side Valves	5-37C	16482-37	—
35	Cylinder, Set, 3-7/16" Bore, 13 Fin, 6.140", Hi-Temp Black, 1937-'41 SV bt	—	—	910-0166
36	Gasket, Base, Flathead Power®, 3-5/16", CMP-4200	46-21	16774-21	106-2692
37	Nut, Cylinder Base, HH, 7/16-20 UNF-2B, Cadmium Plated, Stock 1930-'78 bt <i>See chart optional Stainless Steel version</i>	0134	16602-30	106-4524
38	Stud, Cylinder Base, 7/16-14 UNC, 7/16-20 UNF x 2.0, Zinc, Steel, 1936-'84 bt <i>8 Pack</i>	29-30	16831-30	31-2328
39	Piston, Set, 3-7/16", Standard, 80", 1937-'41 UL svbt	256-30B	22216-30	920-0013
	Piston, Set, 3-7/16", +.010", 80", 1937-'41 UL svbt	256-30BD	22218-30	920-0036
	Piston, Set, 3-7/16", +.020", 80", 1937-'41 UL svbt	256-30BE	22219-30	920-0037
	Piston, Set, 3-7/16", +.030", 80", 1937-'41 UL svbt	256-30BF	22220-30	920-0038
	Piston, Set, 3-7/16", +.040", 80", 1937-'41 UL svbt	256-30BG	22221-30	920-0039
	Piston, Set, 3-7/16", +.060", 80", 1937-'41 UL svbt	256-30BJ	22223-30	920-0040
40	Ring, Set, Piston, 3-7/16", Standard, 1937-'41 UL SVBT	262-37	22355-37	940-0006
	Ring, Set, Piston, 3-7/16", +.010", 1937-'41 UL SVBT	262-37D	22357-37	940-0007
	Ring, Set, Piston, 3-7/16", +.020", 1937-'41 UL SVBT	262-37E	22358-37	940-0008
	Ring, Set, Piston, 3-7/16", +.030", 1937-'41 UL SVBT	262-37F	22359-37	940-0009
	Ring, Set, Piston, 3-7/16", +.040", 1937-'41 UL SVBT	262-37G	22360-37	940-0010
	Ring, Set, Piston, 3-7/16", +.060", 1937-'41 UL SVBT	262-37JA	22362-37	940-0011
41	Cylinder Head Bolt (7/16" -16 X 1-7/8"), Later 1930 to 1948--Side Valves	14-30B	4674	—
42	Head Bolt Washer, 29/64" x 1-3/32" x 13/64", 1940 to 1948--Side Valves, with Aluminum Cylinder Heads	15-39	16822-39	—
43	Spark Plug, 1927 to 1947, 1948--Side Valves	37-09B	32304-09	—
	Spark Plug, 1927 to 1947, 1948--Side Valves	37-09C	32302-09	—
	Spark Plug, 1927 to 1947, 1948--Side Valves	37-09D	32300-09	—
	Spark Plug, 1927 to 1947, 1948--Side Valves	37-09E	32306-09	—
44	Terminal Nut for Spark Plug, 1927 to 1947, 1948--Side Valves (NOT SHOWN)	39-26	32370-26	—
45	Spark Plug Gasket, 1927 to 1947, 1948--Side Valves	40-08	32342-08	—

NOT DIRECT REPLACEMENT PARTS (SOLD AS ASSEMBLIES) *Note: These products are compatible replacements as assemblies.*

#	Description	VVT PN.
11, 12, 13, 14, 15	Spring, Kit, 74" S&S 80", 1937-'41 UL SVBT	900-0208
37	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>each</i>	93-3063-S
	Nut, Cylinder Base, HH, 7/16-20 UNF-2B x .910", Polished, Stainless Steel, 416 <i>8 pack</i>	93-3063

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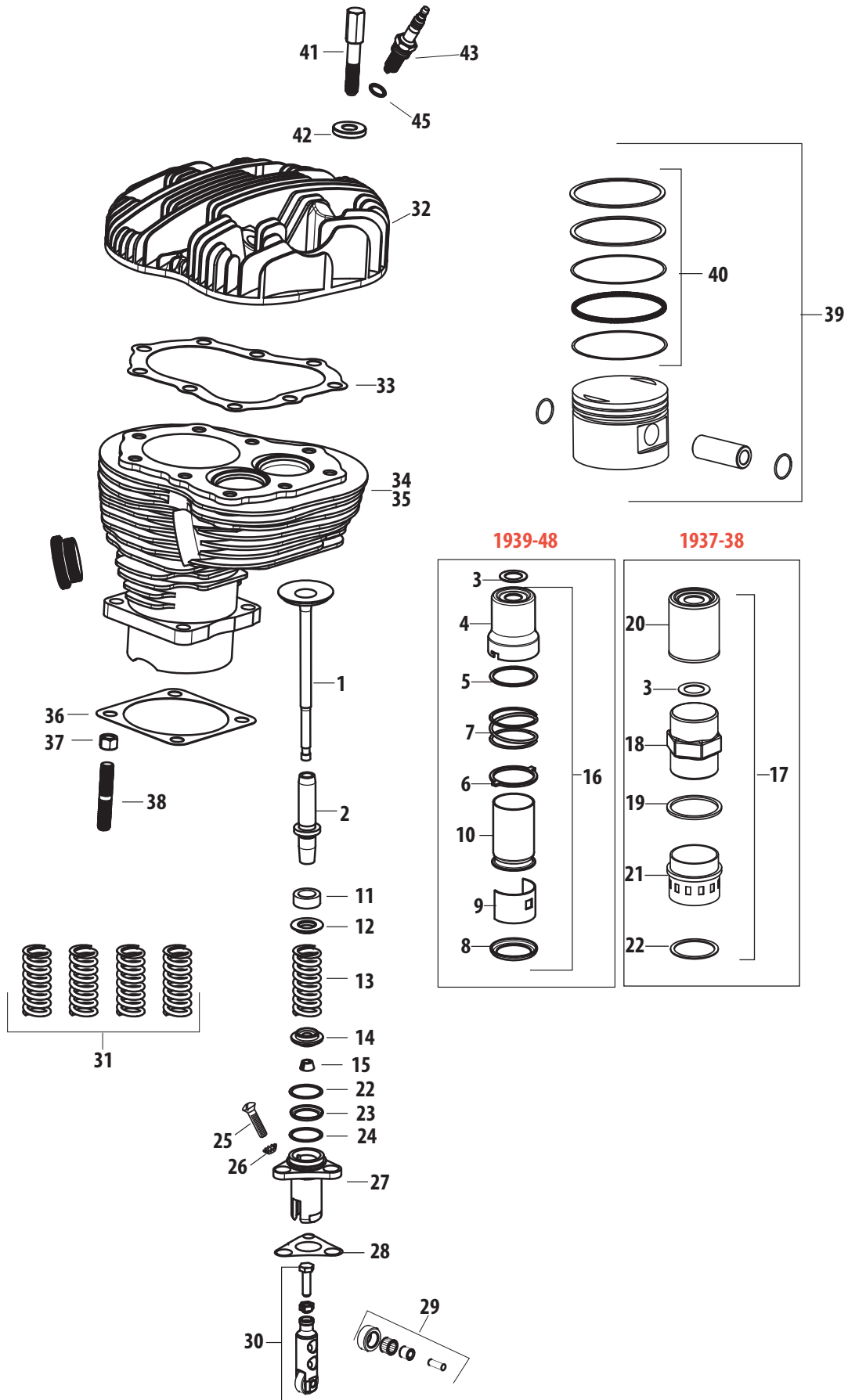
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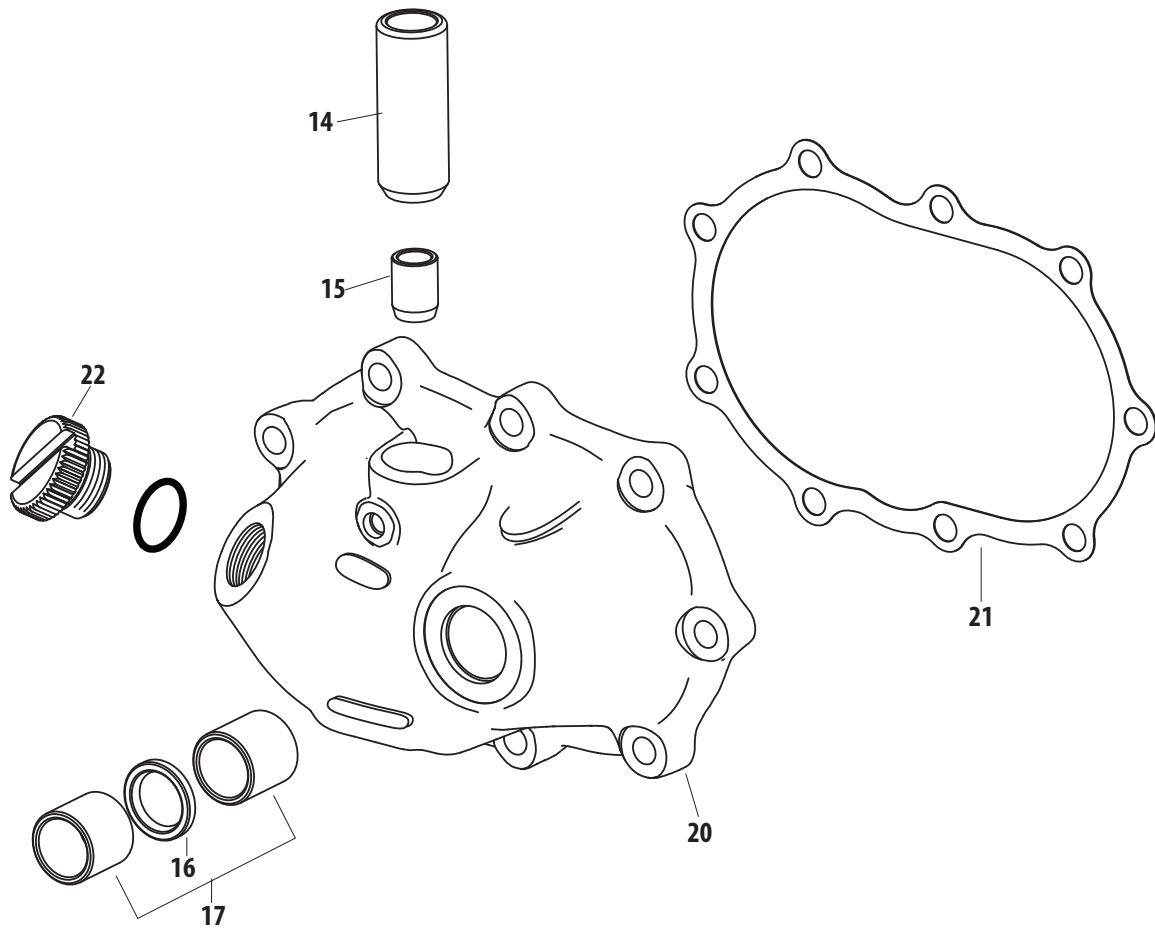
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#	Description	OLD H-D® PN	H-D® Part No.	VVT Part No.
1	Bolt, 3/8-24 x 1-1/8 Hex. Hd, 1940-'69	2100-16	4336W	—
2	Lockwasher, 3/8, 1940-'69	—	7038	—
	Lockwasher, Late 1930-'49	0261	7045	—
3	Bushing, Pedal Pin, Late 1930-'69	2101-31	33213-31	—
4	Washer, Pedal Pin, Late 1930-'69	2102-30	33215-30	—
5	Starter Pedal, Complete (Black Rubber), 1940-'67	—	33175-16A	—
	Starter Pedal, Complete (Black Rubber), Late 1929-'49	2091-16A	33175-16	—
	Starter Pedal Plastic Complete (Red), 1929-'49	2091-16C	33176-16	—
	Starter Pedal Plastic Complete (Yellow), 1929-'49	2091-16D	33177-16	—
6	Pedal Cover, Starter (Black), 1963-'67	—	33182-63A	—
	Pedal Rubber (2), Starter (Black), 1917-'49	2092-17	33182-17	—
	Pedal Block Plastic (1), Starter (Red), 1945-'49	2092-45C	33183-45	—
	Pedal Block Plastic (1), Starter (Yellow), 1945-'49	2092-45D	33184-45	—
7	Axle Plate, Starter Crank Pedal, 1963-'69	—	33202-63	—
	Axle, Starter Crank Pedal, 1929-'49 (Rubber Pedal)	2095-16	33195-45	—
	Axle, Starter Crank Pedal, Late 1945-'49 (Plastic Pedal)	2095-45	33192-16	—
8	Starter Crank, Only (Black), 1954-'69	—	33068-54	—
	Starter Crank, 1937-'53	2076-36	33063-36	—
9	Bolt, 3/8-24 x 1-3/4 Hex. Hd, 1940-'69	—	4411	—
10	Starter Crank Shaft, 1954-'69	—	33096-54B	—
11	Stud, Starter Spring w/Spring Cover Screw Hole, 1937-'69	—	33152-59	—
	Stud, Starter Spring, 1937-'49	2086-36	33090-36	—
12	Spring, Starter Crank, 1940-69	2084-36	33085-36	—
13	Washer, Starter Crank, 1940-69	2077-36	33080-36	—
14	Upper Bushing, Starter Cover, 1940-69	—	33291-36	106-6474
15	Lower Bushing, Starter Cover, 1940-69	—	33290-38	106-6473
16	O-Ring, 1941-'69	—	11101	—
	Starter Crank Oil Seal, Late 1937-'49	2078-37	33076-37	—
17	Bushings, Pair, Starter Cover, 1941-'69	2127-37A	33288-37	—
18	Nut, 5/16-24 x 1/4 x 1/2 Hex. (9), 1940-'69	0117W	7753	—
19	Washer, 11/32 x 11/16 x 1/16 (9), 1940-'69	—	6016	50-7034
	Washer, (9), 1937-'49	0214	6320	50-7034
20	Starter Cover, Transmission, 1940-'47 (G6 Date Code)	2126-36	33277-36A	106-6479-G6
	Starter Cover, Transmission, 1948-'50 (J7 Date Code)	2126-36	33277-36A	106-6479-J7
	Starter Cover, Transmission, 1937-'86 (Universal with No Date Code)	2126-36	33277-36A	106-6479-00
21	Gasket, Starter Cover, 1940-'69	2132-36	33295-36	560-0012
22	Filler Plug, Starter Cover, 1940-'69	—	37072-79	—
	Filler Plug Hex, Starter Cover, 1937-'49	2326-36	704	—
23	Nut, 5/8-18 x 1/4 x 9/16 Hex, 1937-'69	2274-36	7977	—
24	Key, Starter Clutch (2), 1916-'69	2147-16	33393-50	—
25	Lockwasher, Starter Clutch, 1939-'69	2149-39	33396-39	—
26	Starter Clutch, 1939-'69	2146-39	33381-39	—
27	Pin, Starter Crank Gear, 1939-'69	2143-36A	33355-36	—
28	Cam Plate, Starter Crank Gear, 1939-'69	2143-36B	33358-36	—
29	Gear, Starter Crank - 24 T, 1939-'69	2144-36	33350-36	—
30	Rivet, 3/16 x 5/32 (3), 1939-'69	0312	8241	—
31	Starter Gear, Mainshaft - 16 T., 1939-'49	2155-36	33430-36	—
	Starter Gear, Mainshaft - 16 T., 1967-'69	—	33430-50	—
	Starter Gear, Mainshaft - 14 T., Late 1959-'66	—	33430-59	—
32	Bushing, Mainshaft Starter Gear, 1931-Early '50	2155-31A	33436-31	—
	Bushing, Mainshaft Starter Gear, Late 1950-'69	—	33438-50	—
33	Spring, Starter Clutch, 1940-'69	2152-36	33391-36	—
34	Lockwasher, Starter Crank (2), 1916-'69	2080-16	33082-16	—
35	Nut, 1/2-20 x 7/16 x 7/8 Hex, 1937-'69	2079-36	7911	—
36	Stud, Starter Cover (9), 1937-'69	2134-36	33298-65	—
37	Screw, No. 10-24 x 7/16 Pozidriv Hd, 1940-'69	—	2664	—
38	Lockwasher, No. 10 External Tooth, 1940-'69	—	7220	—
39	Spring Cover Kit, Complete, 1940-'69	—	33150-59	—



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10006, 10065	50-8346-S	Wire, Tie, 8", Black, Nylon	60, 64, 94, 96
11002	50-8107	Retaining Ring, External, Tru-arc, .366" x .025", 10 Pack	56, 88, 120, 132
11002	50-8059	Retaining Ring, Oil Pump Drive Gear, Carbon Steel, SAE 1060-1090	56, 88, 120, 132
11101, 11157, 11293	93-4110	O-ring, Top, Pushrod Cover, (-209), .687" ID x .937" OD, Viton®, 10 Pack	4, 10, 20, 26, 48, 76, 78
11105, 11273	50-8078	O-ring, Oil Return, (-013), .437" ID x .565" OD, Viton®, 10 Pack	2, 8, 18, 24, 54, 56, 82, 120, 130, 132
11105, 11273	50-8008	O-ring, (-013), .437" ID x .565" OD, Viton®	2, 8, 18, 24, 54, 56, 82, 118, 120, 130, 132, 144, 164
11110	50-8077	O-ring, (-012), .375" ID x .500" OD, Viton®, 10 Pack	78
11110	50-8006	O-ring, (-012), .375" ID x .500" OD, Viton®	78
11124	31-4051	Seal, Gearcover Cam, 1.125" x 1.561" x .250", 1971-up xl	86, 96
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22104-41, 22104-48	106-5497	Piston, Set, 3-7/16", +.020", 74", LC, Forged, .791" WP, 1936-'78 bt	136, 157
22105-41, 22105-48	106-5498	Piston, Set, 3-7/16", +.030", 74", LC, Forged, .791" WP, 1936-'78 bt	136, 157
22106-41, 22106-48	106-5773	Piston, Set, 3-7/16", +.040", 74", LC, .791" WP, 1936-'78 bt	136, 157
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23949-87	34-2605	Crankpin, Assembly, Tapered, Packaged, 1.251", 1981-'99 xl	80
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23961-80A	34-2102	Crankpin, Assembly, Tapered, Packaged, 1.249", 1981-99 bt	50
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26432-76A	50-8034-S	O-ring, (-015), .562" ID x .068" OD, Black, Viton®	8, 24, 46, 74
26561-81A, 26561-84A, 26338-68	106-2682	Fitting, Pipe, 90j, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel	56, 130
26561-84	31-2016	Switch, Assembly, Oil Pressure, 1984-'99 bt	54, 130
2675, 2674	106-0913	Screw, SHC, 10-24 x 3/4", Chrome	138-139
26856-89, 26856-89A	90-4030	Seal, Umbrella Valve Cover	48, 76
26992-99, 26995-86A	16-0244	O-ring, Manifold, Stock Ports, 1.780" ID x 2.050" OD, Black, Viton®, 10 Pack	28, 58, 66, 90



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27002-89	16-0242	U-ring, Manifold, 40mm Stock CV/42mm Mikuni®, Packaged	28, 58, 90
27009-86A	16-0600	Flange, Front, Manifold, 1984-2005 bt, 1986-2006 xl, 5 Pack	58, 66, 90
27009-86A	16-0232	Flange, Front, Manifold, 1984-2005 bt, 1986-2006 xl	28, 30, 58, 66, 90
27010-86A	16-0601	Flange, Rear, Manifold, 1984-2005 bt, 1986-2006 xl, 5 Pack	28, 58, 66, 90
27010-86A	16-0233	Flange, Rear, Manifold, 1984-2005 bt, 1986-2006 xl	28, 30, 58, 66, 90
27019-89, 27019-89A	16-1736	Manifold, CV Carb, S&S® Ports, 1-7/8", #410, Natural, 1984-'99 bt	58
27021-71A	16-1200	Manifold, O-ring, 1-7/8", #220, Natural, 1957-'78 bt, xl	128
27021-78	16-1300	Manifold, Band, 1-7/8", #220, Natural, 1979-'84 bt, xl	128
27060-55	50-8132	O-ring, (-326), 1.625" ID x 2" OD, Black, Viton®, 10 Pack	128
27060-55	50-8046	O-ring, (-326), 1.625" ID x 2" OD, Black, Viton®	128
27062-78	16-0245	Seal, Manifold, Band Style, 1979-'84 bt, 1979-'85 xl, 10 Pack	128
27062-78	16-0238	Seal, Manifold, Band Style, 2.010" x 2.315" x .7870", Buna, 1979-'84 bt, 1979-'85 xl	128
27063-57	16-0230	Clamp, Manifold, O-ring Style	128
27063-78, 27063-80	16-0231	Clamp, Manifold, Band Style	128
2720	50-0044	Screw, SHCS, 10-24 x 1", Alloy Steel	60, 94
27221-95	50-0485	Tube, Fuel Inlet, 45° Bend, Packaged, 5/16" x .028", Stainless Steel	30
27237-95	50-8137-S	O-ring, (-109), .299" ID x .500" OD, Viton®	30
27244-95	50-8136-S	O-ring, (-111), .424" ID x .625" OD, Viton®	30
27270-95	55-5041	Sensor, Kit, Temperature, Intake Air	30, 66
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27369-76	19-0263	Hose, Overflow, .125" x .250" x 24", 5 Pack	90
27613-99	16-1722	Manifold, CV Carb, S&S® Ports, 1-7/8", #410, Natural, 1999-up bt	28
27628-01, 27628-01A	55-5085	Motor, Kit, Idle Air Control, EFI	30, 92
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29062-95B	106-6022	Gasket, Backplate, 1991-up xl/bt	34
29330-96	106-4632	Filter, Air, Carb, Packaged, 1990-'99 bt	58
29331-04	106-4635	Filter, Air, Packaged, 2004-'09 xl	90
29461-99	106-4630	Filter, Air, Carb/EFI, 2001-'08 Softail® EFI, 2002-'07	12, 28, 30
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29950-91	31-2050	Cover, Stator Wire, 1991-2003 xl	82
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3228	106-5039	Screw, HHC, 5/16-18 x 3/4", Zinc	76
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3275	50-0302-S	Screw, SHCS, 5/16-18 x 3/4", Zinc, ASTM A574-92A	12, 28, 58
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33277-36, 33277-36A	106-6479-G6	Cover, Kit, Transmission Kick Start, Flathead Power®, G6 Date Code, Stock 1940-'47 bt	150, 170, 178
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33290-38	106-6473	Bushing, Lower, Clutch Arm, Transmission Cover, Kick Start, Flathead Power®, Stock 1937-'50 bt	150, 170, 178
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3477	106-3634	Screw, Valve Spring Covers, Stock 1936-'47 OHV bt & KN-Ser	156
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3501A	50-1000	Screw, HHCS, 5/16-18 x 2-1/2", 5 Pack	48, 76
3501A	50-0104	Screw, HHC, Gr8, 5/16-18 x 2-1/2", Zinc, Steel	48, 76
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35038-84, 35038-89	50-8052	Retaining Ring, Internal, 2.702" x .078", Carbon Steel, SAE 1060-1090	84
3506, 24806-36	31-2003	Stud, Crankcase Alignment, 5/16-24 UNF x 5.750", Zinc, Steel	52, 124, 148, 168
35114-02	50-8160-S	Retaining Ring, Internal, 2.731" x .031" x .158", Steel, SAE 1070-1090	8, 24, 82
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3594	50-0071	Screw, SHC, 1/4-20 x 5/8", Zinc, Steel	72
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3750	50-0246P	Screw, 12 pt, 1/4-20 x 7/8", Chrome, Steel, 4 Pack	49, 112
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38723-99	16-5077-S	Clamp, Hold-Down, MAP Sensor	16, 34, 90
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40015-90	106-0353	Belt, Secondary Drive, 133 Tooth, 1.5", Carbon	45, 72, 102
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4716W	50-0168	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel	46, 74
4716W	106-3063	Screw, HHC, 3/8-16 x 1-1/4", Zinc, Steel, 10 Pack	46, 74
4717A	50-0078	Screw, SHCS, 1/4-20 x 2-1/4", Zinc, ASTM A574-92A	84, 86
4718A	50-0079	Screw, SHCS, 1/4-20 x 1-1/2", Zinc, ASTM A574-92A	48, 54, 76
4726	50-0176	Screw, HHC, 7/16-20 x 1-1/4"	108
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4741A	50-0154	Screw, SHCS, w/ Washer, 1/4-20 x 1", 10 Pack	4, 10, 16, 20, 32, 34, 40
4741A	50-0092-S	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A	4, 10, 16, 20, 26, 32, 34, 40
4741A	50-0092P	Screw, SHCS, w/ Flat Washer, 1/4-20 x 1", Zinc, ASTM A574-92A, 4 Pack	4, 10, 16, 20, 32, 34, 40
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6016, 6320, 70907-07	50-7034	Washer, Flat, .344" x .688" x .065", Zinc, Steel	4, 36, 38, 48, 52, 76, 100, 124, 150, 170, 178
609	50-8173	Pin, Roll, .392" x .320", Steel	36, 38, 68
6099	50-7017	Washer, Flat, .260" x .425" x .060", Chrome, Steel	49
6099	50-7013	Washer, Flat, .260" x .425" x .060", Chrome, Steel, 12 Pack	49
6114	50-7018	Washer, Flat, .250" x .625" x .031", Copper	48, 78
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6194, 6245, 6703, 6736, 6228W	50-7074	Washer, Flat, .281" x .625" x .080", Zinc, Steel, 10 Pack	48, 76, 130
6194, 6245, 6703, 6736, 6228W	50-7021	Washer, Flat, .281" x .625" x .080", Zinc, Steel	48, 76, 122, 130
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634	50-8175	Pin, Roll, .328" x .760", Zinc, Steel	38, 68
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63533-15	31-2018	Fitting, Pipe, Straight, 9/16-24 UNEF-2A x 1/8-27 NPT, Zinc, Brass	126
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63796-77A	31-4102	Filter, Oil, SB, SH & V-Series, Chrome	52, 83
63796-77A	310-0240	Filter, Oil, SB, SH S&S V-Series, Chrome, 12 Pack	52, 83
63798-99A	31-4104	Filter, Oil, T-Series & X-Wedge®, Chrome	8, 24
63798-99A	310-0242	Filter, Oil, T-Series S&S X-Wedge®, Chrome, 12 Pack	8, 24
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6495HW	50-7064	Washer, Flat, .469" x .922" x .125", Zinc, Steel	110, 136
65324-83A, 65324-83B	106-5029	Gasket, Exhaust, Tapered, Stainless Steel, 1984-up bt, 1986-up xl	18, 46
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6762B	50-7131	Washer, Flat, .715" x .950" x .031", Steel	4, 20, 48, 78, 113, 138, 157
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68042-99	50-0054-S	Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel	8, 10, 16, 24, 26, 34, 90
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7593	50-5025-S	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel	2, 18
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83162-51	31-4022	Seal, Gearcover Cam, 1" x 1.441" x .250", 1970-up bt	54, 122
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9145	31-4066	Spacer, Left, Main Bearing, .1055" - .1065", 1974-2003 xl	82
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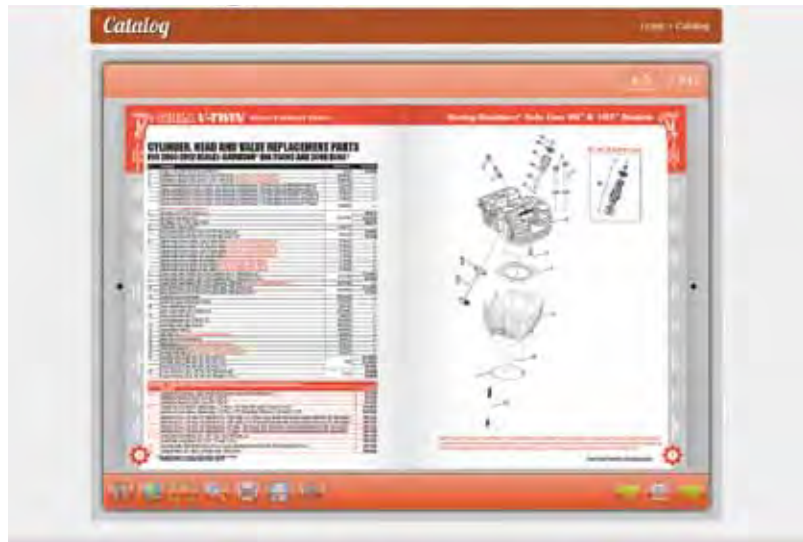
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