



XR750

1972 - 2008 PARTS CATALOG

99442-08R

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PATENT NOTICE

Harley-Davidson products are manufactured under one or more of the following patents: U.S. Patents — 2986162, 2987934, 2998809, 3116089, 3144631, 3144860, 3226994, 3229792, 3434887, 3559773, 3673359, 3680403, 3683716, 3709317, Des. 225,626.

Parts indicated N/A are no longer available.

To the best knowledge of Harley-Davidson, Inc., the material contained herein is accurate as of the date this publication was approved for printing. Harley-Davidson, Inc., reserves the right to change specifications, equipment, or designs at any time without notice and without incurring obligation.

HARLEY-DAVIDSON MOTOR COMPANY
Milwaukee, Wisconsin 53201

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PART NO.	NAME	USED ON
GASKETS		
16774-72R	FOR CYLINDER BASE (2)	72 to *
24821-74RA	FOR OIL SUMP	75 to *
25301-98R	FOR CAM GEAR COVER	72 to *
27015-88R	FOR MANIFOLD (2)	89 to *
34952-52	FOR FRONT CHAIN COVER	72 to *
37762-52	FOR CLUTCH COVER (dry clutch only)	72 to *
67142-52	FOR VALVE ADJUSTING PLUG (4)	72 to *
SEALS		
12021B	FOR CLUTCH GEAR/RELEASE ROD	83 to *
12023	FOR PUSH ROD COVER, tappet guides & rocker covers (8)	72 to *
12043	FOR ROTOR SHAFT (2)	89 to *
18232-93R	FOR VALVE STEM (4)	72 to *
24776-88R	FOR CRANKSHAFT — left	89 to *
25535-74R	FOR PINION SHAFT — gear cover	75 to *
26227-58	FOR OIL PUMP (2)	72 to *
34035-52	FOR SHIFTER SHAFT	72 to *
35151-52A	FOR TRANSMISSION MAINSHAFT — right	72 to *
37742-83R	FOR CLUTCH HUB (dry clutch only)	83 to *
83162-51	FOR CRANKSHAFT — left	75 thru 88
O-RINGS		
11100	FOR TAPPET GUIDE (4)	72 to *
11105	FOR ROCKER ARM SHAFT — left (4)	89 to *
11107	FOR FILLING PLUG PRIMARY CHAIN COVER	94 to *
11110	FOR ROCKER ARM SHAFT — left (4)	72 thru 88
11115	FOR ROCKER ARM SHAFT — right (4)	72 to *
11159	FOR OIL PUMP UPPER COVER (2)	89 to *
NEEDLE BEARINGS		
24221-51	FOR CAMSHAFT (4)	75 to *
17428-72R	FOR ROCKER ARM (8)	72 to *
29616-96R	FOR IGNITION ROTOR SHAFT (2)	89 to *
35960-54	FOR TRANSMISSION COUNTERSHAFT — right (closed end) (1)	72 to *
35961-52	FOR TRANSMISSION COUNTERSHAFT — left (access door) (1)	72 to *
	FOR CLUTCH GEAR MAINSHAFT (1)	72 to *
37722-52	FOR CLUTCH SHELL (2)	72 to *
25592-74R	FOR PINION SHAFT, CAM GEAR COVER (1)	75 to *
8888	FOR LOW GEAR COUNTERSHAFT (1)	89 to *
BALL BEARINGS		
9028R	FOR CAM SHAFT, GEAR COVER (3)	72 thru 95
	(4)	96 to *
	FOR IDLER GEAR, gear cover (2)	72 to *
8995	FOR CLUTCH GEAR TRANSMISSION ACCESS COVER	72 to *
8975	FOR TRANSMISSION MAINSHAFT — right (1)	72 to *
ROLLER BEARINGS		
24386-94R	FOR MAIN BEARING, crankshaft (2)	89 to *
CONNECTING ROD BEARINGS		
24379-97R	FOR BEARING SET — connecting rods	89 to *

PART NO.	NAME	USED ON
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RETAINING RINGS

24702-86R	PISTON PIN (4)	86 to *
11052	MAIN BEARING, left.....	89 to *
11036	SHIFTER PAWLS (2).....	72 to *
34040-52	SHIFTER CAM PLATE	72 to *
35112-52	BALL BEARING CLUTCH GEAR (2).....	72 to *
35337-56	MAINSHAFT THIRD GEAR.....	72 to *
35606-88R	COUNTERSHAFT SECOND GEAR	72 to *

HOSES

REINFORCED RUBBER HOSE IS SOLD IN BULK

27138-90	3/16 I.D.	Length 10 ft.
63501-68B	1/4 I.D.	Length 25 ft.
63521-95A	5/16 I.D.	Length 25 ft.
63500-68	3/8 I.D.	Length 25 ft.
63513-88R	1/2 I.D.	Length 25 ft.

HOSE CLAMPS

9946	.218 - .625
9969	.437 - .875
9964	.562 - 1.062
10119	.813 - 1.500
10048	1.000 - 1.750
9955	1.062 - 2.000
9954	1.312 - 2.250
9991A	1.562 - 2.500
9956	2.062 - 3.000
10074	2.562 - 3.500

PIPE PLUGS

45830-48	.125
721	.250
718 (MAGNETIC)	.250

HOSE FITTINGS

PART NO.	ANGLE	THREAD SIZE	HOSE SIZE	I.D.
16302-81	45°	.250 - 18 NPT MALE	FOR .375 I.D. HOSE	.344
16304-87	90°	.250 - 18 NPT MALE	FOR .375 I.D. HOSE	.297
24937-88R	STRAIGHT	.375 - 18 NPT MALE	FOR .625 I.D. HOSE	.470
26338-68A	90°	.125 - 27 NPT MALE & FEMALE	NONE	.239
32463-88R	STRAIGHT	.375 - 18 NPT MALE	FOR .500 I.D. HOSE	.390
62375-57A	90°	.125 - 27 NPT MALE	FOR .250 I.D. HOSE	.156
25259-93A	STRAIGHT	.250 - 18 NPT MALE	FOR .375 I.D. HOSE	.297
63540-62	45°	.125 - 27 NPT MALE	FOR .375 I.D. HOSE	.250
63541-74R	STRAIGHT	.125 - 27 NPT MALE	FOR .375 I.D. HOSE	.250
63554-90	90°	.125 - 27 NPT MALE	FOR .375 I.D. HOSE	.240
63580-66A	T-FITTING	NONE	FOR .375 I.D. HOSE	.250
63780-88R	STRAIGHT	.562 - 18 UNF MALE WITH SCREEN	FOR .500 I.D. HOSE	.390
34744-77	STRAIGHT	.375 - 16 UNC TRANSM. VENT	FOR .188 I.D. HOSE	.125

PART NO.	NAME	USED ON
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ENGINE KIT

THE FOLLOWING PART NUMBERS ARE REQUIRED:

24512-88R FOR CRANKCASE, CAN ALSO BE ORDERED SEPARATELY, SEE PAGE 7
16070-98R FOR ENGINE COMPONENTS

NOT INCLUDED: EXHAUST PIPES, CARBURETORS,
CLUTCH RELEASE MECHANISM, TRANSMISSION SPROCKET.

ENGINE KITS CAN ONLY BE SUPPLIED IF THE AVAILABILITY OF
SERVICE PARTS IS NOT JEOPARDIZED. SOME DELAY IN
DELIVERY OF ENGINE KITS CAN BE EXPECTED.

TO ORDER: CONTACT YOUR SPOC TEAM SALES ADMINISTRATOR.

ROCKER COVERS

858A	BOLT, rocker arm cover — 5/16-18 x 2-3/4 (4)	72 to *
3206B	SET SCREW, rocker arm shaft plug— No. 8-32 x 3/16 socket hd. (4)...	72 to *
4086A	BOLT, rocker arm cover — 5/16-18 x 3 hex hd. (4).....	72 to *
4392A	BOLT, rocker arm cover — 5/16-18 x 3-1/4 hex hd. (10)	72 to *
6016	WASHER, rocker arm cover bolt — 11/32 x 11/16 x 1/16 (18)	72 to *
6486HW	WASHER, rocker arm shaft nut — 7/16 (4)	75 thru 88
6530	WASHER, rocker arm shaft nut — 1/2 (4)	89 to *
7837W	NUT, rocker arm shaft — 7/16 (4)	75 thru 88
7845	NUT, rocker arm shaft — 1/2 (4)	89 to *
11105	O-RING, rocker arm shaft — left (4)	89 to *
11110	O-RING, rocker arm shaft — left (4)	75 thru 88
11115	O-RING, rocker arm shaft — right (4)	72 to *
17402-79RB	ROCKER ARM, rear intake — No. 1	72 to *
17403-79RB	ROCKER ARM, rear exhaust — No. 2	72 to *
17404-79RB	ROCKER ARM, front intake — No. 3	72 to *
17405-79RB	ROCKER ARM, front exhaust — No. 4	72 to *
17428-72R	NEEDLE BEARING, rocker arm (8)	72 to *
17430-95R	SHAFT, rocker arm (4)	89 to *
17436-74R	SPACER, rocker shaft (4)	75 to *
17451-72R	SHIM, rocker shaft — 0.007	72 to *
17452-72R	SHIM, rocker shaft — 0.015	72 to *
17453-72R	SHIM, rocker shaft — 0.036	72 to *
17514-88RA	COVER, rocker arm — front	89 to *
17515-88RA	COVER, rocker arm — rear	89 to *
12023	OIL SEAL, pushrod cover (8)	72 to *
17949-83	PLUG, valve adjusting (4)	72 to *
45830-48	PIPE PLUG — 1/8", rocker cover	89 to *
67142-52	GASKET, valve adjusting plug (4)	72 to *

PART NO.	NAME	USED ON
CYLINDER HEADS / OIL DRAIN FITTINGS		
16679-89R	CYLINDER HEAD KIT, front — (guides and seats not assembled)	72 to *
16680-89R	CYLINDER HEAD KIT, rear — (guides and seats not assembled)	72 to *
16302-81	ELBOW — 45°, rear head (1)	89 to *
16304-87	ELBOW — 90°, front head (1)	89 to *
VALVE SEATS / GUIDES		
18052-72RA	INSERT, exhaust valve seat — std. (2)	72 to *
18056-72RA	INSERT, intake valve seat — std. (2)	72 to *
18150-84R	VALVE GUIDE, intake — standard (2)	72 to *
18159-84R	VALVE GUIDE, intake — 0.009" O.S. (2)	72 to *
18160-84R	VALVE GUIDE, exhaust — standard (2)	72 to *
18169-84R	VALVE GUIDE, exhaust — 0.009" O.S. (2)	72 to *
VALVES / VALVE SPRINGS / COLLARS...etc		
18072-93R	INTAKE VALVE, titanium (2)	96 to *
18073-93R	EXHAUST VALVE, titanium (2)	96 to *
18077-93R	WEAR CAP (4)	96 to *
18232-93R	VALVE STEM SEAL (4)	72 to *
18214-97R	VALVE SPRING, inner & outer pair (4)	80 to *
18230-93R	COLLAR, valve spring — upper (4)	96 to *
18220-79R	COLLAR, valve spring — lower (4)	80 to *
18231-93R	KEY, (one pair) upper valve collar (4)	96 to *
43292-82	SHIM, lower valve spring collar — 0.008" thick	72 to *
43291-82	SHIM, lower valve spring collar — 0.016" thick	72 to *
43290-82	SHIM, lower valve spring collar — 0.032" thick	72 to *

PART NO.	NAME	USED ON
PISTON & RINGS		
22289-97R	PISTON (2)*	96 to *
22538-03R	RING SET (2).....	86 to *
22720-86RA	PISTON PIN (2)	86 to *
24702-86R	RETAINING RING, piston pin (4)	86 to *
CYLINDERS / STUDS / SHIMS		
6470R	WASHER, cylinder stud (8)	72 to *
16774-72R	GASKET, cylinder base (2)	72 to *
16830-83R	STUD, cylinder (8)	72 to *
16602-30	NUT, cylinder stud (8)	72 to *
16571-77R	SHIM, cylinder base — 0.010" thick aluminum (brown) (2)	72 to *
16572-77R	SHIM, cylinder base — 0.015" thick aluminum (pink) (2)	72 to *
16575-91R	CYLINDER, front	93 to *
16577-91R	CYLINDER, rear	93 to *
TAPPETS / TAPPET GUIDES		
4017	BOLT, tappet guide — 5/16-18 hex hd. (4)	72 to *
11100	O-RING, tappet guide (4)	72 to *
12023	OIL SEAL, tappet guide (4)	75 to *
18508-72RC	TAPPET ASSEMBLY (4)	72 to *
18534-29A	ROLLER & PIN KIT (4)	72 to *
18607-74RC	TAPPET GUIDE, (4)	72 to *
PUSHRODS / COVER / SEAL		
12023	OIL SEAL, push rod cover (8)	72 to *
17935-88R	COVER, push rod (4)	75 to *
17910-88R	PUSH ROD — long, without push rod tips (2)	72 to *
17917-88R	PUSH ROD — short, without push rod tips (2)	72 to *
17916-77R	PUSH ROD TIP (8)	72 to *

* PISTONS ARE SUPPLIED WITHOUT COMPONENTS

PART NO.	NAME	USED ON
FLYWHEELS & CONNECTING RODS		
3233	SET SCREW, plug – right flywheel	93 to *
6509	THRUST WASHER, flywheel/connecting rod, bronze (2).....	89 to *
7856	NUT, motor sprocket.....	93 to *
43283-84	WASHER, motor sprocket nut.....	93 to *
83162-51	OIL SEAL, crankshaft – left.....	72 thru 88
24776-88R	OIL SEAL, crankshaft – left.....	89 to *
24777-88R	RETAINER, crankshaft oil seal, left	89 to *
16248-89R	THRUST WASHER, flywheel .035 (2).....	89 to *
16243-88R	THRUST WASHER, flywheel .040 (2).....	89 to *
16244-88R	THRUST WASHER, flywheel .045 (2).....	89 to *
16245-88R	THRUST WASHER, flywheel .050 (2).....	89 to *
16246-88R	THRUST WASHER, flywheel .055 (2).....	89 to *
23803-92R	FLYWHEEL, right (keyed pinion shaft gears) needs plug PN 3233*	93 to *
23800-92R	FLYWHEEL, left (splined shaft).....	93 to *
23947-88R	CRANKPIN – standard	89 to *
23977-88R	CRANKPIN – 0.001" O.S.	89 to *
23978-88R	CRANKPIN – 0.002" O.S.	89 to *
23962-88R	PLUG, crankpin (2).....	89 to *
24324-88R	CONNECTING ROD – front.....	89 to *
24325-88R	CONNECTING ROD – rear	89 to *
24331-36	BUSHING, piston pin – standard (2).....	72 to *
24332-36	BUSHING, piston pin – 0.010" O.S. (2).....	72 to *
24379-97R	BEARING SET, connecting rods.....	89 to *

* INSTALL WITH LOCTITE 243.

PART NO.	NAME	USED ON
CRANKCASE		
24512-88R	SET OF CRANKCASES	89 to *
	REQUIRES:	
375	DOWEL PIN, camgear & sprocket cover (2)	
16825-48	EXPANSION PLUG, shifter shaft	
34035-52	OIL SEAL, shifter shaft	
34037-52	BUSHING, shifter shaft	
	TO ORDER: CONTACT YOUR SPOC TEAM SALES ADMINISTRATOR	
358	DOWEL PIN, crankcase halves (2).....	72 to *
707	DRAIN PLUG, transmission	75 thru 88
718	DRAIN PLUG, transmission – magnetic	89 to *
720	PLUG, timing hole (2)	72 to *
2879W	BOLT, engine upper – rear – 3/8-16 x 1 hex hd. (4).....	72 to *
2882W	BOLT, shift lever stop – 5/16-19 x 5/8 hex hd. (2)	72 to *
2894	SCREW, left crankcase main bearing bushing (6)	89 to *
4067	BOLT, right crankcase – 5/16-18 x 4-7/16 hex hd.	72 to *
4068A	BOLT, right crankcase – 5/16-18 x 2-3/8 hex hd. (3)	72 to *
4072	SCREW, main bearing retaining plate – No. 10-24 x 3/4 flat socket ctsk. hd. (4).....	83 to *
4100HW	BOLT, right crankcase – 5/16-18 x 4 hex hd. (2)	72 to *
4413	BOLT, engine front mount – 5-1/2 lg. (2).....	72 to *
4720W	SCREW, crankcase rear (3).....	89 to *
6701	WASHER, rear engine mount (7).....	89 to *
7038	LOCKWASHER, engine rear mounting – upper and lower – 3/8 (4).....	72 to *
7041	LOCKWASHER, shift lever stop bolt – 5/16 (2).....	72 to *
7775	LOCKNUT, engine front and rear mounting – 3/8-24.....	72 to *
16237-57	BOLT, engine front mount – 6-13/16 lg. (2).....	72 to *
16830-83R	CYLINDER STUD (8).....	72 to *
24221-51	NEEDLE BEARING, cam shaft (4) (crankcase).....	75 to *
24386-94R	MAIN BEARING, crankshaft (2)	89 to *
24552-88R	BUSHING, crankcase left (needs line boring and machining of lock ring groove after installation).....	89 to *
24776-88R	OIL SEAL, crankshaft – left	89 to *
24777-88R	RETAINER, crankshaft seal – left	89 to *
33080-83R	PLATE, retaining – main bearing – right (2).....	83 to *

PRIMARY CHAIN COVER

34957-93R	PRIMARY CHAIN COVER.....	72 to *
	REQUIRES:	
34958-93R	FILLING PLUG	
11107	O-RING, FILLING PLUG	
884A	SCREW (6)	
891	SCREW (3) (cover, rear: L = 1.50)	
813A	SCREW (3) (cover, rear: L = 1.75, for footpeg support bracket)	
3728	SCREW, oil level plug	
6218W	WASHER, oil level plug screw	
7036	LOCKWASHER (9)	
34952-52	GASKET, primary chain cover	72 to *

PART NO.	NAME	USED ON
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BREATHER, CRANKCASE

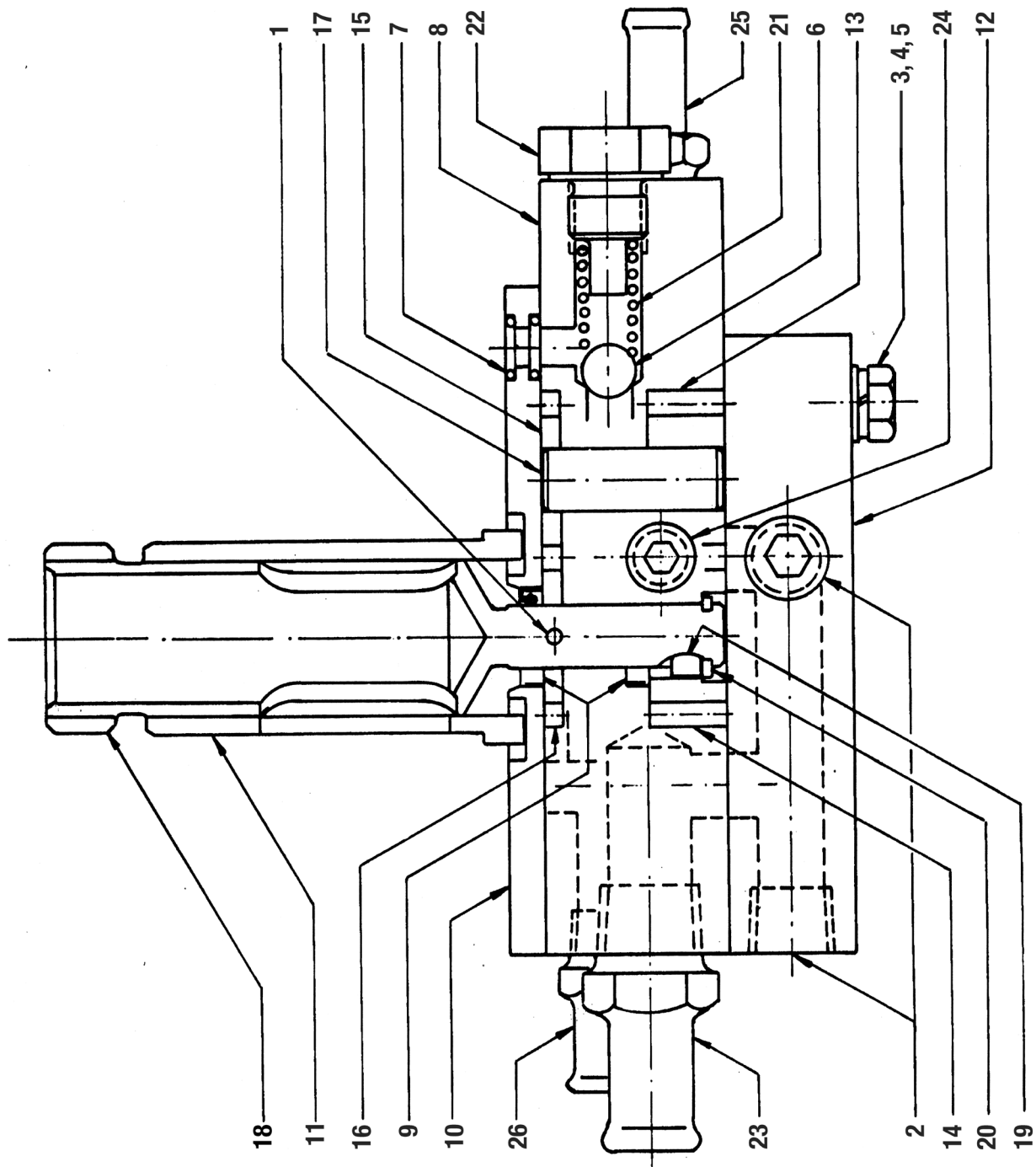
9964	CLAMP, vent line (3).....	89 to *
10119	CLAMP, baffle hose (2)	89 to *
24937-88R	HOSE FITTING, cam gear cover	89 to *
63514-88R	HOSE, for baffle	89 to *
63516-88R	BAFFLE	89 to *
63517-88R	HOSE END, for baffle hose (2)	89 to *
63519-88R	HOSE, vent line – 5/8 I.D. x 4 ft. long.....	89 to *

OIL SUMP

852A	SCREW, sump mounting – 1/4-20 x 1 socket hd. (2)	75 to *
885A	SCREW, sump mounting – 1/4-20 x 2-3/4 socket hd. (2)	75 to *
2664	SCREW, sump windage tray – No. 10-24 x 7/16 Pozidriv pan hd. (2)	75 to *
6182W	WASHER, sump windage tray screw – No. 10 x 1/2 x 3/64 (2).....	75 to *
6218W	WASHER, sump mounting screw – 1/4 x 7/16 x 1/32 brass (4).....	75 to *
6778	WASHER, fiber.....	89 to *
7069	LOCKWASHER, sump windage tray screw – No. 10 (2)	75 to *
16302-81	HOSE FITTING – 45° elbow (2).....	89 to *
16304-87	ELBOW – 90°	89 to *
24821-74RA	GASKET, oil sump.....	75 to *
24996-74RA	SUMP, oil.....	89 to *
24998-74R	WINDAGE TRAY, oil sump – baffle.....	75 to *
63780-88R	FITTING, sump – with screen.....	89 to *

PART NO.	NAME	USED ON
CAMGEAR COVER WITH COMPONENTS		
852A	SCREW, camgear cover – 1/4-20 x 1.00 socket hd. (6)	96 to *
1795A	SCREW, camgear cover – 1/4-20 x 3.00 socket hd. (2)	96 to *
2821	SCREW, shiftlever support bracket (2)	96 to *
6218W	WASHER, screw, camgear cover (6).....	96 to *
6703	WASHER, screw, shiftlever support bracket.....	96 to *
3231B	SET SCREW, camgear cover plug, 1/4-20 x 1/4 socket hd.	72 thru 95
7920R	NUT, pinion shaft	93 to *
11245R	KEY, pinion shaft	93 to *
9028R	BALL BEARING, cam shaft – gear cover (4).....	96 to *
25223-96R	CAM GEAR COVER*	96 to *
25567-88R	SHAFT, cam & gears – No. 1, 2, 3, 4 (4)	96 to *
24024-92R	PINION GEAR (green) (key'd)	93 to *
24025-92R	PINION GEAR (white) (key'd)	93 to *
25569-88R	GEAR, No. 1, 2, 3 & 4 cam (green) (4)	89 to *
29699-88R	GEAR, No. 1, 2, 3 & 4 cam (white) (4).....	89 to *
25570-88R	GEAR, No. 2 & 4 cam (green) (2)	89 to *
29701-88R	GEAR, No. 2 & 4 cam (white) (2).....	89 to *
25571-88R	CAM LOBE, intake (2).....	89 to *
25572-88R	CAM LOBE, exhaust (2).....	89 to *
24221-51	NEEDLE BEARING, cam shaft (4) (crankcase)	75 to *
25301-98R	GASKET, camgear cover	72 to *
25507-88R	PIN, gear drive (2)	89 to *
25535-74R	SEAL, pinion shaft – camgear cover	75 to *
25592-74R	NEEDLE BEARING, pinion shaft	75 to *
34037-52	BUSHING, shifter shaft.....	72 to *
34038-94R	BRACKET, shift lever support	96 to *
35413-74R	SHIM, cam – 0.070.....	75 to *
35415-74R	SHIM, cam – 0.060.....	75 to *
35417-74R	SHIM, cam – 0.050.....	75 to *

*Requires: BEARINGS, SEAL, SET SCREW, SHIFT LEVER SUPPORT BRACKET



OIL PUMP ASSEMBLY (1/2 ENGINE SPEED)

PART NO.	NAME	USED ON
OIL PUMP 1/2 ENGINE SPEED – 89 to *		
26203-88RA	OIL PUMP ASSEMBLY (does not include PINION SHAFT DRIVE GEAR)	89 to *
	Consists of:	
1	637R DRIVE PIN, feed gear	
2	721 PIPE PLUG, 1/4" lower cover (2)	
3	3429 SCREW (5)	
4	6703 WASHER (5)	
5	7036 LOCKWASHER (5)	
6	8873 BALL, check valve	
7	11159 O-RING, upper cover (2)	
8	26217-88R BODY, oil pump	
9	26227-58 OIL SEAL (2)	
10	26228-88R COVER, upper	
11	26229-88R SLEEVE, breather	
12	26250-88R COVER, lower	
13	26317-88R GEAR, scavenger idler	
14	26320-88R GEAR, scavenger drive	
15	26322-88R GEAR, feed idler	
16	26323-88R GEAR, feed drive	
17	26327-88R IDLER SHAFT	
18	26331-88R DRIVE/BREATHING SHAFT	
19	26340-36 KEY, scavenger gear drive	
20	26341-37 RETAINER HALF, scavenger drive gear (2)	
21	26364-72 SPRING, check valve	
22	26420-74R PLUG, oil pump ball check	
23	32463-88R HOSE FITTING, 3/8" scavenger intake	
24	45830-48 PIPE PLUG, 1/8"	
25	25259-93A HOSE FITTING, 1/4" scavenger outlet	
26	63541-74R HOSE FITTING, 1/8" feed intake	
26344-92R	DRIVE GEAR, oil pump, key'd pinion shaft	93 to *

PART NO.	NAME	USED ON
MANIFOLDS		
3494A	SCREW, manifold (4)	89 to *
27015-88R	GASKET, intake manifold (2)	89 to *
27033-88R	INTAKE MANIFOLD, front.....	89 to *
27036-88R	INTAKE MANIFOLD, rear	89 to *

EXHAUST SPRING

41835-57R	SPRING, exhaust header pipe (2)	72 to *
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NOTE: FOR HEADER PIPES AND MEGAPHONES SEE SUPPLIERS.

IGNITION TIPS

The importance of a proper functioning ignition is often overlooked.
To keep your ignition system in good working order, adhere to the following:

CLEANLINESS:

To prevent “flash-over”, the inside of the spark plug cap and the outside of the ceramic insulator must be kept clean.
For the inside cleaning of the spark plugs, do *not* use petroleum based cleaners (i.e. carburetor or brake cleaner) as they will leave an oil film that can cause fouling.
Do not let dirt accumulate on any of the ignition components.
Remember: the electrical current *must* take the path of the *most* resistance, through center electrode, across sparkplug gap!
Do not allow voltage to leak to ground as a result of neglect.

TIGHT TERMINALS:

Make sure the screw on terminals on top of spark plugs as well as all other wire connections are tight.

SPARK PLUG WIRES:

Keep separated by 1/2 inch minimum.
Do not tape directly to frame.
Cover with “SPLIT SEAM FLEX TUBE” where plug wires can make contact with engine or frame.
Replace at the first sign of wear.

MOISTURE:

While nearly all electronic ignitions are resistant to moisture during operation, it is recommended to remove ignition end covers after washing and allow accumulated moisture to evaporate.

TORQUE SPECS:

For proper heat transfer of spark plugs, fasten according to specs. below:
10mm: 7.2 - 8.7 ft. lbs.
14mm: 18.0 - 21.6 ft. lbs.

GROUND WIRES:

See wiring diagram in Service Manual. If module and coil ground wires are attached to chassis, make sure there is no paint insulating chassis from engine.

LOCATION OF MODULES AND COILS:

Components must be placed in such a manner that high and low tension wires do not overlap. One example of this would be to mount module for the front cylinder on the right side and module for the rear cylinder on the left side of the steering head. (pick the same side as used for the stators)
Position the coils 4–6 inches behind the modules.

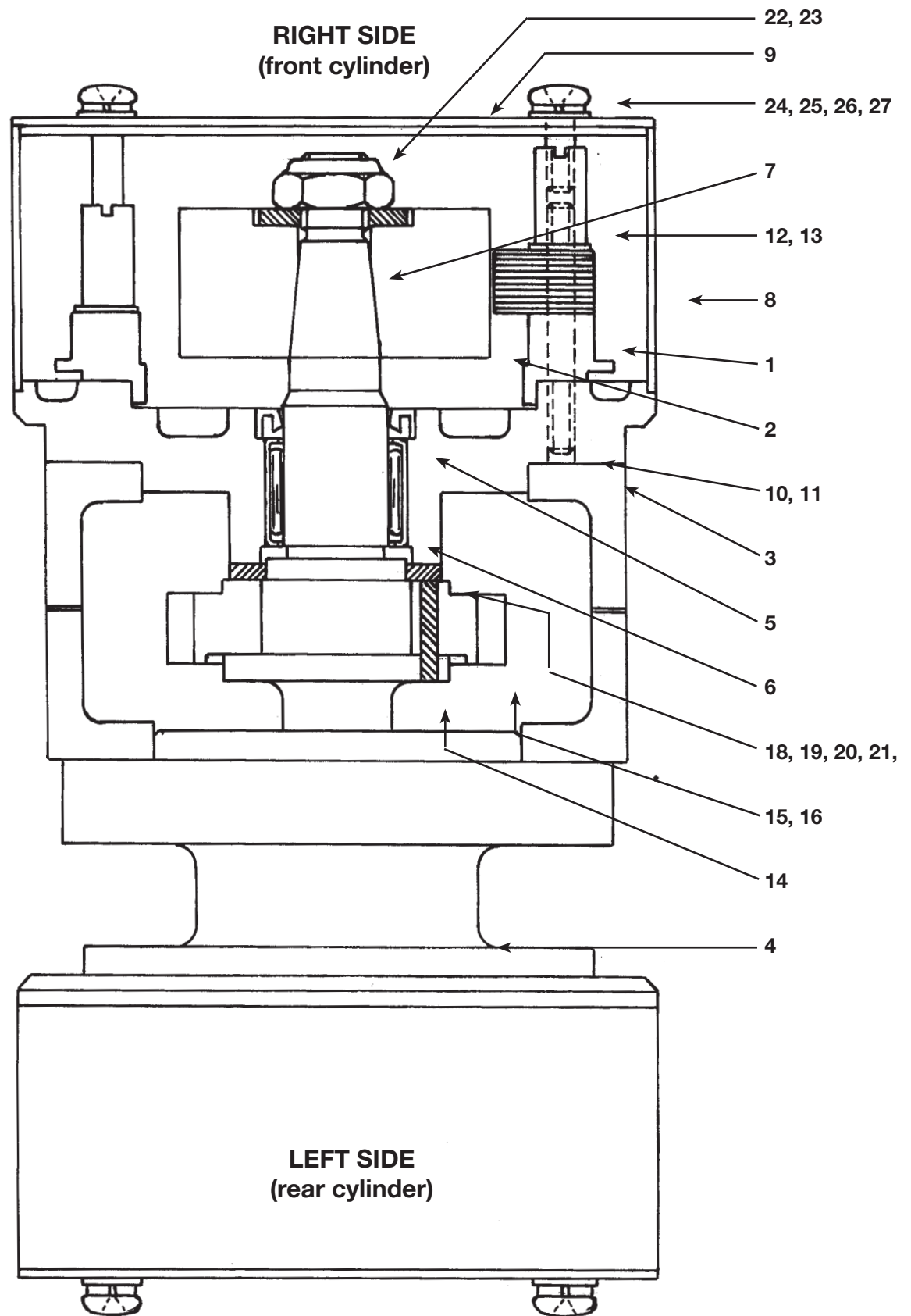
ADDITIONAL PVL ITEMS:

Improved stator	PVL part no. 1061
Rotor puller;	PVL part no. 70910
Contact:	PVL USA
	1115 Milan Ave.
	Amherst, OH 44001
Phone:	440-988-4474

READING SPARK PLUGS:

Spark plug readings are a good indicator of whether your engine is running at its best. Balance front and rear cylinders by jetting the carburetors to achieve identical readings on both plugs.
For info on plug reading, check CHAMPION SPARK PLUG’s booklet titled:
“HI-PERFORMANCE AND RACING/HEAT RANGE CHART AND TUNING GUIDE”

To read sparks accurately, use CHAMPION’s lighted spark plug viewer (their part no. CT456A).
Tune for the day, last race conditions might not be the same!!!



PART NO.		NAME	USED ON
IGNITION <i>For ignition tips and spark plug readings, see page 13</i>			
1	29992-96RA	STATOR W / ADAPTOR PLATE (2).....	96 to *
2	29994-96R	ROTOR (2).....	96 to *
	29996-96R	IGNITION COIL (2).....	96 to *
	29949-98R	MODULE (2).....	98 to *
	31978-88R	CAP, spark plug, (4); requires terminal 31979-88R	89 to *
	31979-88R	TERMINAL, spark plug cap (4)	89 to *
3	32486-96R	IGNITION HOUSING – right (1)	96 to *
4	32487-96R	IGNITION HOUSING – left (1).....	96 to *
5	12043	SEAL (2)	89 to *
6	29616-96R	NEEDLE BEARING (2)	89 to *
7	32455-95R	SHAFT (1).....	88 to *
8	32457-88R	SHIELD (2)	89 to *
9	32488-96R	END COVER (2)	96 to *
10	32501-96R	STUD, stator – long (4)	96 to *
11	32512-96R	STUD, stator – short (2).....	96 to *
12	32503-96R	NUT, stator stud (6)	96 to *
13	6182W	WASHER, stator stud nut (6)	96 to *
	744R	CAP, plastic-left ignition housing (1)	89 to *
14	25507-88R	PIN, gear drive (1).....	89 to *
	32461-88R	RUBBER GROMMET (2)	89 to *
	9900	PUSH-ON TERMINAL, 3/16 (2)	98 to *
	9907	PUSH-ON TERMINAL, 1/4 (2)	98 to *
	31959-97R	TERMINAL, spark plug wire to ignition coil (4)	96 to *
	72266-94	SHRINK TUBE, use with push-on terminals	96 to *
15	25570-88R	GEAR, ignition shaft-green (1).....	89 to *
16	29701-88R	GEAR, ignition shaft-white (1)	89 to *
18	35357-82	SHIM, rotor shaft –.098 (2)	89 to *
19	35358-82	N/A – SHIM, rotor shaft –.107 (2), Supplier: V-Twin	89 to *
20	35359-82	N/A – SHIM, rotor shaft –.116 (2), Supplier: V-Twin	89 to *
21	35360-82	SHIM, rotor shaft –.125 (2)	89 to *
22	7824	NUT, rotor shaft (2)	89 to *
23	6718	WASHER, rotor shaft (2).....	96 to *
	852A	SCREW, left housing to crankcase (1)	89 to *
	1795A	SCREW, right to left housing (3)	89 to *
	4069A	SCREW, right housing to cover (1).....	89 to *
	6218W	WASHER, ignition housing screws (5).....	96 to *
24	2956	SCREW, end cover –long (2).....	96 to *
25	2665	SCREW, end cover–short (4)	96 to *
26	6182W	WASHER, end cover screws (6)	89 to *
27	7069	LOCKWASHER, end cover screws (6).....	89 to *
SPARK PLUGS			
	32301-00R	SPARK PLUG, 10mm., Champion G54V (2).....	89 to *
	32304-88R	SPARK PLUG, 14mm., Champion C53 (2)	89 to *

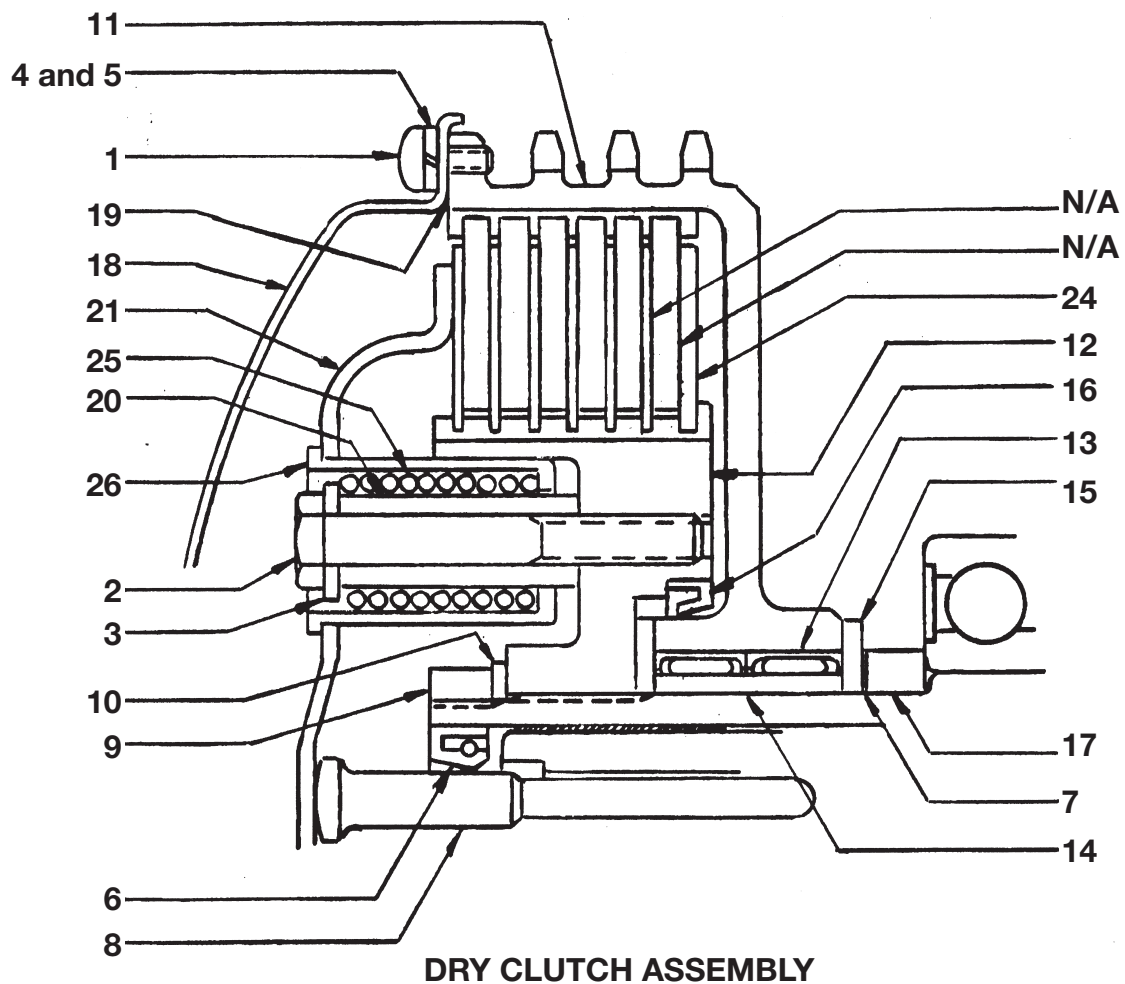
PART NO.	NAME	USED ON
IDLER GEAR		
9028R	BALL BEARING, idler gear (2).....	72 to *
29691-50R	SCREW, intermediate gear stud (2)	72 to *
29692-78R	FLANGE, intermediate gear	72 to *
29693-78R	SHAFT, intermediate gear	72 to *
29694-56R	SPACER, intermediate gear stud.....	72 to *
29698-56RA	GEAR, intermediate (green)	72 to *
29695-88R	GEAR, intermediate (white).....	72 to *
TRANSMISSION		
3991	BOLT, transmission access door – 5/16-18 x 7/8 hex hd. (4)	72 to *
7069	LOCKWASHER, mainshaft oil seal retainer – No. 10 (4)	72 thru 83
24578-57	DOWEL PIN, access door (2)	72 to *
34744-77	VENT SCREW	72 to *
35047-53	NUT, transmission sprocket.....	72 to *
35050-52	LOCKWASHER, transmission sprocket nut	72 to *
35112-52	RETAINING RING, ball bearing clutch gear (2).....	72 to *
35337-56	RETAINING RING, mainshaft third gear.....	72 to *
35606-88R	RETAINING RING, countershaft second gear	89 to *
12021B	OIL SEAL, clutch gear	89 to *
35151-52A	OIL SEAL, mainshaft – right	72 to *
8888	NEEDLE BEARING, low gear countershaft	89 to *
8975	BALL BEARING, mainshaft – right.....	72 to *
8995	BALL BEARING, clutch gear.....	72 to *
35960-54	NEEDLE BEARING, countershaft (closed end)	72 to *
35961-52	NEEDLE BEARING, clutch gear and countershaft – left (access door) (2)	72 to *
35787-72	BUSHING, low gear (bronze).....	72 thru 88
35361-56	THRUST WASHER, mainshaft – left (pressed into clutch gear)	72 to *
35841-58	THRUST WASHER, countershaft, second gear	72 to *
35364-56	WASHER, mainshaft third gear	72 to *
35044-72RA	MAINSHAFT.....	72 to *
35613-88RA	COUNTERSHAFT.....	89 to *
35605-88R	SPACER, countershaft	89 to *
35351-52RB	N/A – THRUST WASHER, mainshaft – right – 0.062”, Supplier: V-Twin.	72 to *
35352-52RB	N/A – THRUST WASHER, mainshaft – right – 0.071”, Supplier: V-Twin.	72 to *
35354-52RB	N/A – THRUST WASHER, mainshaft – right – 0.080”, Supplier: V-Twin.	72 to *
35355-72RB	N/A – THRUST WASHER, mainshaft – right – 0.089”, Supplier: V-Twin.	72 to *
35357-82	N/A – THRUST WASHER, mainshaft – right – 0.098”, Supplier: V-Twin.	72 to *
35358-82	N/A – THRUST WASHER, mainshaft – right – 0.107”, Supplier: V-Twin.	72 to *
35359-82	N/A – THRUST WASHER, mainshaft – right – 0.116”, Supplier: V-Twin.	72 to *
35360-82	N/A – THRUST WASHER, mainshaft – right – 0.125”, Supplier: V-Twin.	72 to *

PART NO.	NAME	USED ON
TRANSMISSION (CONT'D)		
35820-52	THRUST WASHER, countershaft – low gear – outside – 0.050"	72 to *
35821-52	THRUST WASHER, countershaft – low gear – outside – 0.055"	72 to *
35824-52	N/A THRUST WASHER, countershaft – low gear – outside – 0.060"	72 to *
35825-52	THRUST WASHER, countershaft – low gear – outside – 0.065"	72 to *
35828-52	THRUST WASHER, countershaft – low gear – outside – 0.070"	72 to *
35865-92	THRUST WASHER, countershaft – low gear – inside – 0.030" (2)	89 to *
35864-92	THRUST WASHER, countershaft – low gear – inside – 0.035" (2)	89 to *
35863-92	THRUST WASHER, countershaft – low gear – inside – 0.040" (2)	89 to *
35862-92	THRUST WASHER, countershaft – low gear – inside – 0.045" (2)	89 to *
35861-92	THRUST WASHER, countershaft – low gear – inside – 0.050" (2)	89 to *
35860-92	THRUST WASHER, countershaft – low gear – inside – 0.055" (2)	89 to *
TRANSMISSION GEARS		
<i>LOW GEARS:</i>		
35277-52A	On mainshaft 27T.	72 to *
35760-84A	On countershaft..... 17T.	89 to *
<i>2ND GEARS:</i>		
35296-56B	On mainshaft 23T.	72 to *
35750-58B	On countershaft..... 20T.	72 to *
<i>3RD GEARS:</i>		
35305-56B	On mainshaft 20T.	72 to *
35709-54C	On countershaft 23T.	72 to *
<i>DRIVE GEARS:</i>		
37450-61RA	CLUTCH GEAR, mainshaft.... 19T.	72 to *
35695-58R	DRIVE GEAR, countershaft... 25T.	72 to *

PART NO.	NAME	USED ON
SHIFTER		
SHIFTER MECHANISM COMPONENTS		
11036	RETAINING RING, shifter pawls (2).....	72 to *
34012-75B	SHIFTER CAM PLATE*	72 to *
34040-52	RETAINING RING, shifter cam plate	72 to *
34461-72	SPACER, shifter pawl (2)	72 to *
34476-72	SHIFTER PAWL (2).....	72 to *
34494-74C	PAWL CARRIER, steel	72 to *
34500-52A	SPRING, pawl carrier (2)	72 to *
34514-75A	PAWL CARRIER SUPPORT, aluminum	72 to *
35336-74	THRUST WASHER, shifter cam	72 to *
37224-90R	SPRING, shifter pawls	72 to *
SHIFT LEVER & SHAFT COMPONENTS		
4014W	PINCH BOLT, shift lever to shaft	93 to *
6016	WASHER, pinch bolt & shifter peg (2).....	93 to *
7725	NUT, pinch bolt & shifter peg (2)	93 to *
33664-81	SHIFTER LEVER	72 to *
34609-52	SHIFTER PEG, rubber	72 to *
34628-52RA	SHIFTER SHAFT	72 to *
REMAINING SHIFTER COMPONENTS		
4621	BOLT, pawl carrier support	72 to *
16825-48	PLUG, shifter shaft (expansion), right crankcase half	72 to *
34035-52	OIL SEAL, shifter shaft	72 to *
34037-52	BUSHING, shifter shaft (2).....	72 to *
34067-52	LOCK WASHER, shifter plunger retainer.....	72 to *
34069-71	LOCK WASHER, pawl carrier support bolt	72 to *
35891-66	SHIM, pawl carrier support	72 to *
34291-52C	SHIFTER FORK (2).....	72 to *
34292-72A	SHIFTER FORK, + 0.020.....	72 to *
34293-72A	SHIFTER FORK, - 0.020	72 to *
34141-52A	SHAFT, shifter forks.....	72 to *
34168-52	ROLLER, shifter finger (2).....	72 to *
34070-85R	RETAINER, shifter plunger	84 to *
34071-85R	SHIFTER PLUNGER	84 to *
34072-85R	SPRING, shifter plunger	84 to *

*MODIFY SHIFTER CAM PLATE BY REMOVING PIN FOR NEUTRAL INDICATOR

ITEM NO.	PART NO.	NAME	USED ON
SPROCKETS / CHAINS / CHAIN ADJUSTER			
2879W		BOLT, front chain adjuster – 3/8-16 x 7/8 hex hd. (2).....	72 to *
6408HB		WASHER, front chain adjuster – 3/8 x 13/16 x 1/16 (2).....	72 to *
43283-84		WASHER, motor sprocket nut	93 to *
7038		LOCKWASHER, front chain adjuster – 3/8 (2).....	72 to *
35050-52		LOCKWASHER, transmission sprocket nut	72 to *
7856		NUT, motor sprocket	93 to *
35047-53		NUT, transmission sprocket.....	72 to *
23985-12		KEY, motor sprocket.....	72 thru 92
35224-92R		TRANSMISSION SPROCKET – 15T (#520 chain)	93 to *
35225-92R		TRANSMISSION SPROCKET – 16T (#520 chain)	93 to *
35226-92R		TRANSMISSION SPROCKET – 17T (#520 chain)	93 to *
35227-92R		TRANSMISSION SPROCKET – 18T (#520 chain)	93 to *
39975-54A		FRONT CHAIN ADJUSTER, with lining and retainer.....	72 to *
39978-58		LINING, chain adjuster (black Zytel).....	72 to *
39980-90R		LINING, front chain adj (natural Zytel).	72 to *
39979-58A		RETAINER, chain adjuster lining.....	72 to *
40005-52RA		PRIMARY CHAIN, for 25T motor sprocket	72 to *
40294-92R		MOTOR SPROCKET – 25T (splined I.D.)	93 to *



SEALS

CLUTCH GEAR SEAL (item #6), although no longer required for wet clutch, it is advised to continue in order to keep left clutch release rod (item #8) centralized in transmission mainshaft.

CLUTCH HUB SEAL (item #16), must be removed for wet clutch.

PART NO.	NAME	USED ON
CLUTCH		
DRY CLUTCH PART NUMBERS		
1	2664	SCREW, clutch cover (12)..... 72 to 03
4	6182W	WASHER, clutch cover screw (12) 72 to 03
5	7069	LOCKWASHER, clutch cover screw (12) 72 to 03
16	37742-83R	OIL SEAL, clutch hub..... 84 to 03
18	37760-88R	CLUTCH COVER 88 to 03
19	37762-52	GASKET, clutch cover..... 72 to 03
20	37761-83R	SPACER, clutch spring bolt (6)..... 84 to 03
25	38075-95R	CLUTCH SPRING (6)..... 72 to 03
WET CLUTCH PART NUMBERS		
	38075-04R	CLUTCH SPRING (6)..... 04 to *
	37761-04R	SPACER, clutch spring bolt (6)..... 04 to *
	37631-04R	CLUTCH SHELL 04 to *
	37985-04	CLUTCH PLATE, friction (7) 04 to *
	63588-04R	FITTING, transmission vent..... 04 to *
	37989-04R	WET CLUTCH PLATE SET 04 to *
		contains: 7 friction plates + 6 steel plates
	37990-04R	CLUTCH CONVERSION KIT, dry to wet..... 04 to *
		contains: all plates (except backing plate), springs, spacers, instructions & modifications for clutch shell
	37991-04R	COMPLETE CLUTCH CONVERSION KIT, dry to wet 04 to *
		contains: all components required for a complete conversion, with instructions
DRY & WET CLUTCH PART NUMBERS		
2	2881W	BOLT, clutch spring (6)..... 84 to *
3	6094	WASHER, clutch spring bolt (6) 84 to *
26	38105-78R	CUP, clutch spring 84 to *
6	12021B	SEAL, clutch gear 84 to *
12	37632-83R	CLUTCH HUB..... 84 to *
9	37527-67	NUT, clutch hub 84 to *
10	37533-52A	LOCKWASHER, clutch hub nut..... 72 to *
24	38016-88R	BACKING PLATE..... 72 to *
21	37876-52T	RELEASING DISC 72 to *
17	37758-83R	SPACER, clutch, on clutch gear..... 84 to *
7	33450-70R	SHIM, clutch spacing, on clutch gear (as req'd) 72 to *
15	37731-52	THRUST WASHER, clutch shell (2) 72 to *
13	37722-52	NEEDLE BEARING, clutch shell (2) 84 to *
14	37534-89R	INNER RACE, needle bearing, clutch shell..... 84 to *
CLUTCH RELEASE RODS		
	37276-53	RELEASE ROD, right 72 to *
8	37280-85R	RELEASE ROD, left..... 84 to *
	37281-47	RELEASE ROD, left-center, short..... 72 to *
	37282-53	RELEASE ROD, right-center, long..... 72 to *

OIL FOR PRIMARY CHAIN COMPARTMENT:

Fill compartment with 32 oz. of AUTOMATIC TRANSMISSION FLUID type FA.

PART NO.	NAME	USED ON
DECALS		
60980-90R	DECAL, gas tank – left	89 to *
60981-90R	DECAL, gas tank – right	89 to *
60998-70R	DECAL, gas tank – left	72 thru 88
60999-70R	DECAL, gas tank – right	72 thru 88
61571-74R	DECAL, “Harley-Davidson” – script (white) Length: 11”	72 to *
SERVICE MANUAL		
99491-03R	SERVICE MANUAL	72 to *
RUBBER MOUNTS / PADS		
62563-65	RUBBER MOUNT, Thread: 1/4; Ends: 2 male Rubber: 1.00 RD x .75 Wide	72 to *
50235-63	RUBBER MOUNT, Thread: 5/16; Ends: 1 male, 1 female Rubber: 1.00 RD x .75 Wide	72 to *
69125-65	RUBBER MOUNT, Thread: 5/16; Ends: 2 male Rubber: 1.50 RD x .50 Wide	72 to *
66308-80	RUBBER PAD, 1.00 x 8.00 x .18 (self-adhesive backing)	72 to *
61634-62R	RUBBER PAD, 4.00 x 16.00 x .50	72 to *
LOCTITE / GASKET SEALER...ETC.		
See “H-D’s Genuine Motor Accessories and Genuine Motorparts” catalog for Loctite products, gasket sealer...etc. Check index under: Maintenance.		
PAINT		
98665-78	FLAT BLACK, HIGH TEMP.	
GLUE		
99839-95	GLUE, FOR HANDLEBAR GRIPS	
FOOTRESTS		
7739	LOCKNUT, pivot bolt	72 thru 88
7775	LOCKNUT, footrests stud	72 thru 88
50939-52	FOOTREST ASSEMBLY, (steel)	72 thru 88
50940-52	RUBBER COVER, footrests	72 thru 88
50970-52	BOLT, footrest pivot	72 thru 88

NUMERICAL INDEX

7	358	3	6530	3		4	18150-84R
7	375	7	6701	1	11159	4	18159-84R
11	637R	9	6703	11		4	18160-84R
7	707	11		9	11245R	4	18169-84R
2	718	15	6718	1	12021B	4	18214-97R
7		8	6778	16		4	18220-79R
7	720	7	7036	21		4	18230-93R
2	721	11		1	12023	4	18231-93R
11		7	7038	3		1	18232-93R
15	744R	19		5		4	
7	813A	7	7041	1	12043	5	18508-72RC
8	852A	8	7069	15		5	18534-29A
9		15		3	16070-98R	5	18607-74RC
15		16		7	16237-57	5	22289-97R
3	858A	21		6	16243-88R	5	22538-03R
7	884A	18	7725	6	16244-88R	5	22720-86RA
8	885A	21	7739	6	16245-88R	6	23800-92R
7	891	7	7775	6	16246-88R	6	23803-92R
9	1795A	21		6	16248-89R	6	23947-88R
15		15	7824	2	16302-81	6	23962-88R
8	2664	3	7837W	4		6	23977-88R
21		3	7845	8		6	23978-88R
15	2665	6	7856	2	16304-87	19	23985-12
9	2821	19		4			
7	2879W	9	7920R	8			
19		11	8873	5	16571-77R	9	24024-92R
7	2882W	1	8888	5	16572-77R	9	24025-92R
7	2894	16		5	16575-91R	1	24221-51
15	2956	1	8975	5	16577-91R	7	
3	3206B	16		5	16602-30	9	
9	3231B	1	8995	4	16679-89R	6	24324-88R
6	3233	16		4	16680-89R	6	24325-88R
11	3429	1	9028R	1	16774-72R	6	24331-36
12	3494A	9		5		6	24332-36
7	3728	16		7	16825-48		
16	3991	15	9900	18			
18	4014W	15	9907	5	16830-83R	1	24379-97R
5	4017	2	9946	7		6	
7	4067	2	9954			1	24386-94R
7	4068A	2	9955	3	17402-79RB	7	
15	4069A	2	9956	3	17403-79RB	3	24512-88R
7	4072	2	9964	3	17404-79RB	7	
3	4086A	8		3	17405-79RB	7	24552-88R
7	4100HW	2	9969	1	17428-72R	16	24578-57
3	4392A	2	9991A	3		7	
7	4413	2	10048	3	17430-95R	2	24702-86R
18	4621	2	10074	3	17436-74R	5	
7	4720W	2	10119	3	17451-72R	1	24776-88R
3	6016	8		3	17452-72R	6	
18		2	11036	3	17453-72R	7	
21	6094	18		3	17514-88RA	6	24777-88R
8	6182W	2	11052	3	17515-88RA	7	
15		7		5	17910-88R		
21		1	11100	5	17916-77R		
7	6218W	5		5	17917-88R		
8		1	11105	5	17935-88R		
9		3		3	17949-83		
15		1	11107	4	18052-72RA		
19	6408HB	7		4	18056-72RA		
5	6470R	1	11110	4	18072-93R		
3	6486HW	3		4	18073-93R		
6	6509	1	11115	4	18077-93R		

1	24821-74RA	15	31978-88R	17	35277-52A	21	
8		15	31979-88R	17	35296-56B	21	37731-52
2	24937-88R	15	32301-00R	17	35305-56B	1	37742-83R
8		15	32304-88R	18	35336-74	21	
8	24996-74RA	15	32455-95R			21	37758-83R
8	24998-74R	15	32457-88R	2	35337-56	21	37760-88R
9	25223-96R	15	32461-88R	16		21	37761-04R
2	25259-93A	2	32463-88R	16	35351-52RB	21	37761-83R
11		11		16	35352-52RB	1	37762-52
1	25301-98R	15	32486-96R	16	35354-52RB	21	
9		15	32487-96R	16	35355-72RB	21	37876-52T
9	25507-88R	15	32488-96R	15	35357-82	21	37985-04
15		15	32501-96R	16		21	37989-04R
1	25535-74R	15	32503-96R	15	35358-82	21	37990-04R
9		15	32512-96R	16		21	37991-04R
9	25567-88R	7	33080-83R	15	35359-82	21	38016-88R
9	25569-88R	21	33450-70R	16		21	38075-04R
9	25570-88R	18	33664-81	15	35360-82	21	38075-95R
15		18	34012-75B	16		21	38105-78R
9	25571-88R	1	34035-52	16	35361-56	19	39975-54A
9	25572-88R	7		16	35364-56	19	39978-58
1	25592-74R	18		9	35413-74R	19	39979-58A
9		7	34037-52	9	35415-74R	19	39980-90R
11	26203-88RA	9		9	35417-74R	19	40005-52RA
11	26217-88R	18		16	35605-88R	19	40294-92R
1	26227-58	9	34038-94R	2	35606-88R	12	41835-57R
11		2	34040-52	16		6	43283-84
11	26228-88R	18		16	35613-88RA	19	
11	26229-88R	18	34067-52	17		4	43290-82
11	26250-88R	18	34069-71	17	35709-54C	4	43291-82
11	26317-88R	18	34070-85R	17	35750-58B	4	43292-82
11	26320-88R	18	34071-85R	17	35760-84A	2	45830-48
11	26322-88R	18	34072-85R	16	35787-72	3	
11	26323-88R	18	34141-52A	17	35820-52	11	
11	26327-88R	18	34168-52	17	35821-52	22	50235-63
11	26331-88R	18	34291-52C	17	35824-52	21	50939-52
2	26338-68A	18	34292-72A	17	35825-52	21	50940-52
11	26340-36	18	34293-72A	17	35828-52	21	50970-52
11	26341-37	18	34461-72	17	35829-52	22	60980-90R
11	26344-92R	18	34476-72	16	35841-58	22	60981-90R
11	26364-72	18	34494-74C	17	35860-92	22	60998-70R
11	26420-74R	18	34500-52A			22	60999-70R
1	27015-88R	18	34514-75A	17	35861-92	22	61571-74R
12		18	34609-52	17	35862-92	22	61634-62R
12	27033-88R	18	34628-52RA	17	35863-92	2	62375-57A
12	27036-88R	2	34744-77	17	35864-92	22	62563-65
2	27138-90	16		17	35865-92	11	
1	29616-96R	1	34952-52	18	35891-66	2	63500-68
15		7		1	35960-54	2	63501-68B
16	29691-50R	7	34957-93R	16		2	63513-88R
16	29692-78R	7	34958-93R	1	35961-52	8	63514-88R
16	29693-78R	16	35044-72RA	16		8	63516-88R
16	29694-56R	16	35047-53	18	37224-90R	8	63517-88R
16	29695-88R	19		21	37276-53	8	63519-88R
16	29698-56RA	16	35050-52	21	37280-85R	2	63521-95A
9	29699-88R	19		21	37281-47	2	63540-62
9	29701-88R	2	35112-52	21	37282-53	2	63541-74R
15		16		17	37450-61RA	11	
15	29949-98R	1	35151-52A	21	37527-67	2	63554-90
15	29992-96RA	16		21	37533-52A	2	63580-66A
15	29994-96R	19	35224-92R	21	37534-89R	21	63588-04R
15	29996-96R	19	35225-92R	21	37631-04R	2	63780-88R
15	31959-97R	19	35226-92R	21	37632-83R	8	
		19	35227-92R	1	37722-52	22	66308-80

1	67142-52
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22	69125-65
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