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MANUAL PREVIEW

Hercules

Parts Manual

IX-3 Series

IXF, IXA, IXK & IXB

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Parts Manual

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PARTS LIST

HERCULES

FOUR CYLINDER ENGINE

of the

"IX-3" Series
(Three Gear Type)



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CANTON, OHIO, U. S. A.

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PARTS LIST

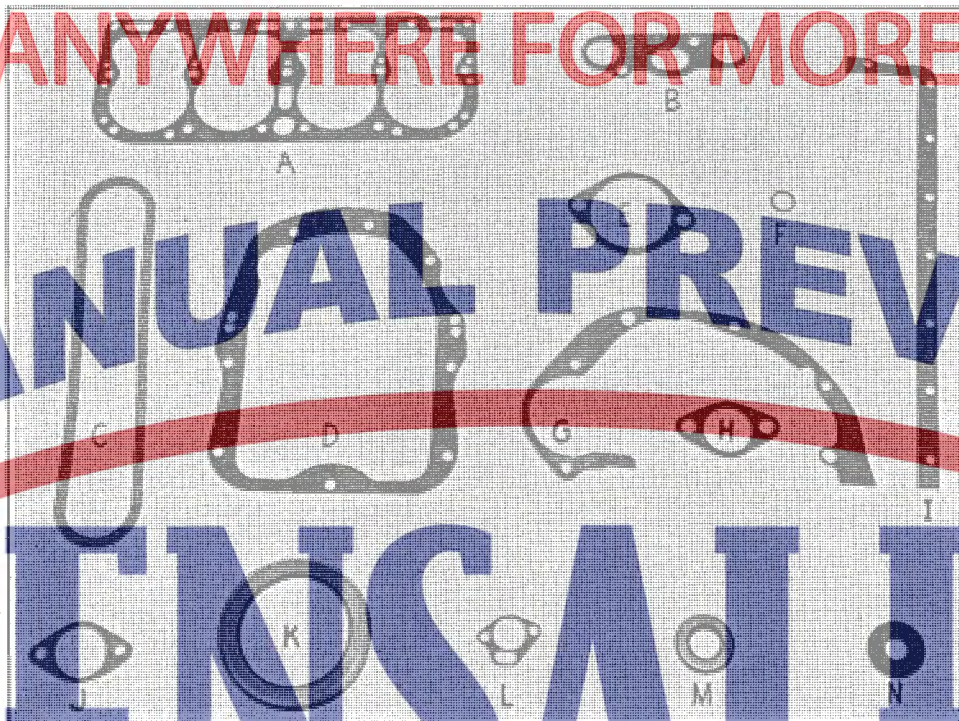


Illustration Reference A to N

GASKETS AND SEALS

Part No.	No. Req'd	PART NAME	Illustration Reference
29999-AS	1	Gasket Assembly (Includes following parts marked *)	
27799-B	2	*Exhaust and Intake Manifold Gasket	B
89081-B	2	*Oil Pan Gasket—Supersedes 28107-B	I
27064-B	1	*Bellhousing Gasket	D
28009-B	1	*Valve Cover Gasket	C
27698-C	1	*Gear Cover Gasket	G
28552-A	1	*Governor Attaching Gasket	E
28954-A	1	*Oil Filter Pad Cover Plate Gasket	
8575-A	1	*Oil Pressure Regulator Nut Gasket	F
27127-A	1	*Oil Pump Attaching Gasket	L
4931-A	1	*Water Inlet Pipe Gasket	H
14224-A	1	*Water Outlet Pipe Gasket	J
200000-B	1	Bellhousing to Crankshaft Oil Seal—Replaces 11119-A	K
200382-AS	1	Gear Cover Oil Seal Assembly—Replaces 28106-A and 6580-AS	M
11022-A	1	Oil Pump to Baffle Felt Washer	N
39213-C	1	Cylinder Head Gasket—IXA, IXB and IXX—Replaces 29521-C and 27233-C	A
39214-C	1	Cylinder Head Gasket—IXF—Replaces 27310-C	A

CYLINDER AND CRANKCASE (Poured Type Bearings)

NOTE: This group covers Cylinder Blocks and parts using Poured Babbitt Bearing Caps and these Blocks are replaced as an assembly with Cylinder Blocks having Shell Type Bearings, see next group. This group is listed here to facilitate ordering parts for engines with the Poured Bearing Type Blocks.

28339-ESY	1	Cylinder Block—3" Bore—With Valve Guides, Camshaft Bearings, Bayonet Gauge Bushing and Governor Gear Bearing—Replaces 28352-ESY—Replaced by 39332-AS	Z
28052-DS	1	Cylinder Block—3" Bore—Same as above also Main Bearings machined to size with Caps and Screws—Replaces 28354-DS—Replaced by 39332-AS	Z
29923-AS	1	Main Bearing Assembly, Includes parts marked *	

Give Engine Number with Each Parts Order

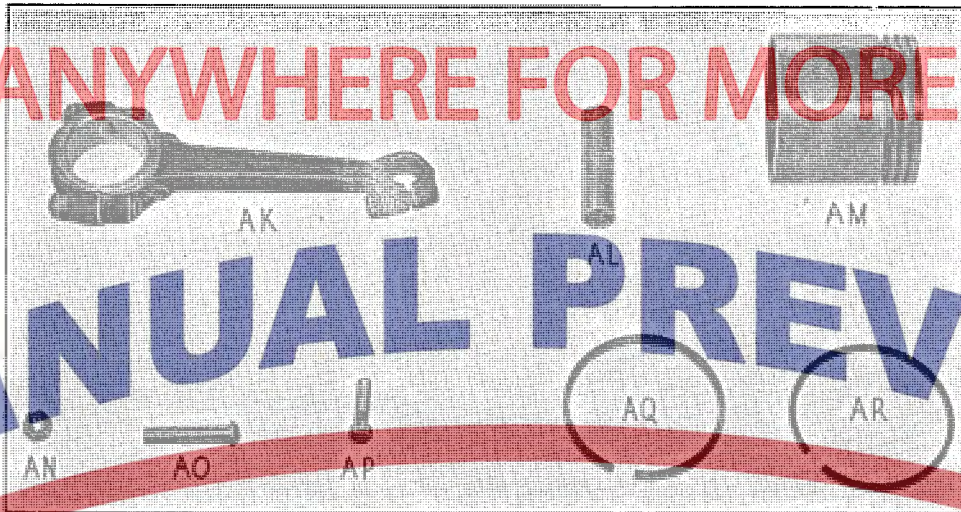


Illustration Reference AK to AR

CONNECTING ROD

(When possible replace with 39070-AS Assembly)

Part No.	No. Req'd	PART NAME	Illustration Reference
28094-BS	4	Connecting Rod Assembly—Includes parts marked †	AK
28096-A	8	†Connecting Rod Cap Bolt	AO
27056-A	8	†Connecting Rod Cap Nut— $\frac{3}{8}$ "-24	AN
301-A	8	†Connecting Rod Cap Nut Cotter— $\frac{3}{8}$ " x $\frac{3}{4}$ "	
27054-A	24	†Connecting Rod Cap Shim—.003" Brass	
27067-A As Req.	†	Connecting Rod Cap Shim—.002" Brass	
11841-A	4	Connecting Rod Piston Pin Lockscrew— $\frac{1}{8}$ "-24x $1\frac{1}{8}$ "	AP
		Replaces 27111-A	
14842-A	4	Connecting Rod Lockwasher—Replaces 267-A Lockwire	

CONNECTING ROD (Shell Type Bearings)

39070-AS	4	Connecting Rod and Bearing Assembly—Includes parts marked *	AS
56093-AS	4	*Connecting Rod Assembly—Includes Bolts and Nuts	AS
28096-A	8	Connecting Rod Bolt	AX
27056-A	8	Connecting Rod Nut	AY
301-A	8	Connecting Rod Cotter Pin $\frac{3}{8}$ " x $\frac{3}{4}$ "	AZ
11841-A	4	Connecting Rod Clamp Screw	AV
14842-A	4	Connecting Rod Clamp Screw Lockwasher	AU
38102-B	8	*Connecting Rod Bearing—Supersedes 56092-B	

PISTON (Cast Iron)

27110-AS	4	Piston Assembly—Includes parts marked *	
27214-C	4	*Piston—3" Diameter—Cast Iron	AM
27029-B	4	*Piston Pin	AL
27021-A	8	*Piston Pin Bushing	
3803-A	8	Piston Ring—Compression	AQ
3908-A	4	Piston Ring—Oil Regulating	AR

PISTON (Aluminum)

235116-AS	4	Piston and Pin Assembly	
27218-C	4	Piston	
27029-B	4	Piston Pin	AL
3803-A	8	Piston Ring—Compression	AO
3908-A	4	Piston Ring—Oil Regulating	AR

CAMSHAFT

28973-DS	1	Camshaft and Plunger Assembly—Includes parts marked *	BG
28973-D	1	*Camshaft	BG
38073-AS	1	Camshaft Bearing Assembly—Includes Parts Marked #	
38071-A	1	#Camshaft Front Bearing—Replaces 27048-A	BF
38070-A	1	#Camshaft Rear Bearing—Replaces 27051-B	BC
27050-B	2	#Camshaft Intermediate Bearing	BD
27306-B	1	Camshaft Gear	AX
4413-A	1	Camshaft Gear Key—Woodruff No. 61	BA
4853-A	1	Camshaft Thrust Washer	BE
40068-A	1	*Camshaft Thrust Plunger	BB

Give Engine Number with Each Parts Order



Illustration Reference BH to BU

BELLHOUSING

Part No.	No. Req'd	PART NAME	Illustration Reference
28587-D	1	Bellhousing—Pad Type	
28597-D	1	Bellhousing—Pad Type (Pads on top)	
28571-D	1	Bellhousing—Power Unit Type	Y
200000-B	1	Bellhousing Crankshaft Oil Seal—Replaces 11119-A	K
27064-B	1	Bellhousing Gasket	D
4423-A	7	Bellhousing Screw—Thin Head— $\frac{3}{8}$ "-16x $\frac{3}{4}$ "	
315-A	3	Bellhousing Screw— $\frac{3}{8}$ "-16x $\frac{7}{8}$ "	
342-A	10	Bellhousing Lockwasher— $\frac{3}{8}$ " S.A.E.	
14858-A	2	Dowel—Bellhousing to Block	

GEAR COVER

28123-D	1	Gear Cover	BI
27698-C	1	Gear Cover Gasket	G
14099-A	4	Gear Cover Screw	
4877-A	1	Gear Cover Screw— $\frac{3}{8}$ "-16x2 $\frac{1}{2}$ "—To Attach Governor	
3592-A	1	Gear Cover Screw— $\frac{3}{8}$ "-25x5"—To Attach Governor	BK
752-A	1	Gear Cover Screw Nut— $\frac{3}{8}$ "-24	BN
5074-A	3	Plain Washer	BM
3673-A	2	Hollow Dowel (In Gear Cover Attaching Flange)	
342-A	6	Gear Cover Lockwasher	BO
14592-AS	1	Gear Cover Thrust Screw Assembly	
14591-A	1	Gear Cover Thrust Screw Plug	
2048-A	1	Gear Cover Thrust Screw Nut— $\frac{1}{2}$ "-14	
20082-AS	1	Gear Cover Oil Seal Assembly—Includes parts marked †	M&BJ
3689-A	1	†Gear Cover Oil Seal Sleeve—Supersedes 200696-A	

OIL PUMP

NOTE: A change in the oil pump body design has obsoleted the following pump which is superseded by 38121-CS. This pump is listed here only for convenience in ordering some repair parts. Where parts are not available it will be necessary to replace pump with a new assembly.

28375-CS	1	Oil Pump Assembly—Includes parts marked *	BV
27127-A	1	Oil Pump Attaching Gasket	L&CE
303-A	2	Oil Pump Attaching Screw— $\frac{1}{2}$ "-18 $\frac{3}{4}$ "	
615-A	2	Oil Pump Attaching Lockwasher— $\frac{1}{2}$ " S.A.E.	
38125-CS	1	*Oil Pump Body—replaces 28261-C	CC
28265-A	1	*Oil Pump Cover	CJ
1729-A	4	*Oil Pump Cover Screw— $\frac{1}{4}$ "-20x $\frac{5}{8}$ "	CI
4411-A	2	*Oil Pump Snap Ring	CH
28262-A	1	*Oil Pump Drive Shaft	BW
28371-A	1	*Oil Pump Drive Gear	BY
4412-A	1	*Oil Pump Drive Gear Washer	BZ
5813-A	1	*Oil Pump Drive Gear Pin— $\frac{1}{8}$ "x $\frac{3}{4}$ "	BX
1179-A	3	*Oil Pump Gear Key—No. 2 Woodruff	CG
28264-A	2	*Oil Pump Gear	CB
28263-A	1	*Oil Pump Idler Shaft	CA
14589-A	1	Oil Pump to Baffle Plate Washer	CD
11022-A	1	Oil Pump to Baffle Felt Washer	N&CF

Give Engine Number with Each Parts Order