HARDIE IMPERIAL MODEL NO. LCXA PUMP WITH OUTBOARD BEARING

SERVICE INSTRUCTIONS AND REPAIR PARTS LIST

Applying to 3½" No. LCXA Pump Beginning with Serial No. IMP. LCXA—1088

See Other Side for Cuts

MISCELLANEOUS REPAIRS

Part No.	No. Used	
111C9	7	Stainless Steel Ball, 1⅛"—$
121H32	12	Stud, ⅜"x3¼", countershaft cap
121K36	14	Stud, ⅜"x3¼" valve, clamp and caps
121K52	12	Stud, ⅜"x5¼" Yoke
150A	1	Pressure Gauge, 1000 lbs.
151D1	1	Pinion, 17 Tooth, Herringbone 3"F. x 1½"B.
151D2	1	Gear, 68 Tooth Herringbone 3"F. x 2½"B.
154D10	1	Gear Housing Assembly
154D11	3	Cap Screw, ⅜"x1" (gear case)
170AG	2	Woodruff Key "G"
187K	26	Hex Nuts, ⅜"—121K42
187H	12	Hex Nuts, ½"
188H	12	Hex Jam Nuts, ½"
188K	12	Hex Jam Nuts, ⅜"
195G1	7	Oil Hole Cover, ⅛"
195H4	5	Set Oiler Yarn (crank main and countershaft)
195H5	2	Set Oiler Yarn (crank center)
195J1	1	Grease Gun
201E3		Graphite Packing, per ft.
201F5	1	Gear Case Packing, Set
427A3	1	Air Chamber
432A14	1	Stand, Gear Side, Less Bearings
432A15	1	Stand, Sprocket Side, Less Bearings
432A16	2	Stand, Center, Less Bearings
432A27	1	Outboard Stand, Less Bearings
572A65	1	Bed, deep well
573A19	2	Bearing, Crankshaft, U.H. 2½"B. x 4⅛"
573A20	2	Bearing, Crankshaft, L.H. 2½"B. x 4⅛"
573A23	3	Bearing, Countershaft, U.H. 1½"B. x 4⅛"
573A24	3	Bearing, Countershaft, L.H. 1½"B. x 4⅛"
573A27	2	Bearing, Center, U.H. 2½"B.x2" L.
573A28	2	Bearing, Center, L.H. 2½"B.x2" L.
574A11	3	Countershaft Cap
575A18	2	Crankshaft Cap
575A19	2	Center Stand Cap
575A20	1	Yoke
610A49	1	Countershaft, 1½"x40"
611A6	1	Crankshaft, Jour. 2½"D. x 4¼" C.B., 2½"D.x2" pin, 2½"D.x1¾"
612X17	3	Set Shims, 1⅛"W.x4"L. Countershaft cap
612J18	4	Shims, 1¾"W.x1⅜"L. Center Cap
612J19	4	Shims, 1¾"W.x4"L. Main Cap
620G48	7	Valve Clamps
622A46	7	Valve Cap and Cage
623D5	7	Taper Stainless Steel Valve Seats, 1¾" Taper
635C2	1	Ring, Gear Case
635C7	*	Dowel pins—stands
680A2	5	Drain Cock, ¼"

HARDIE CUP TYPE REGULATOR REPAIRS

111C9	1	Stainless steel valve ball
121K32	2	Studs ⅝" x 3½"
187K	2	Full hex nuts, ⅜"
192G	3	Jam hex nut, ⅛"—20 SAE
200E47	1	Gasket — yoke
200K4	1	Cap gasket, 1⅜" I.D. x 2½" O.D.
201B12	4	Stem packing, 1⅛" x ¾" x ⅜"
256A19	1	Galv. Street elbow 1" drilled and tapped ⅜"
321S	1	Wrought washer, 1"
431A36		Regulator assembly
580A15	1	Plunger cup, 2¼" O.D., ½" high, ⅝" hole
620B8	1	Regulator plunger disc
620D14	1	Regulator stem, upper half ¼" x 4¾" stainless steel
620D15	1	Regulator stem and lower half, ¼" x 6⅞"
620D16	1	Regulator stem tip, ⅛" x 1⅜" stainless steel
620E4	1	Regulator spring, ⅝" x 3½"
620F30	1	Regulator yoke
620G11	1	Regulator adjusting screw
620G48	1	Regulator cap clamp
620G43	1	Regulator porcelain lined plunger tube 2¾"I.D. x 1⅜" long
620G46	1	Regulator cup follower
620G47	1	Regulator stem packing nut
622A46	1	Valve cap and cage
623D5	1	Regulator stainless steel taper valve seat
680A1	1	Drain cock, ¼"

PLUNGER REPAIRS

125A16	3	Bushings (wrist pin) 1⅜"x1⅝"x1½"
133B14	3	Spring cotter, brass, ⅜"x1½"
195D1		Cored wicking, per ft.
195G2	6	Drive Oil Hole Cover, ½"
282H66	12	Cap Screws ½"x6¾" for tubes
430A54	3	Plunger compl. 3½" thermoid with tube
454A54	3	Plunger compl. 3½" thermoid less tube and guide
573A17	3	Bearing U. H. 2½"B.x1¾"W.
573A18	3	Bearing L. H. 2½"B.x1¾"W.
577A34	3	Plunger Body 3½"
580D6	3	Plunger Cup
581A26	3	Plunger Cup Follower
582A10	3	Plunger Guide
589A2	3	Plunger Wrist Pin Lock Pin, ⅛" x 5½"
590A16	3	Plunger Wrist Pin 1.125 x 3.125
593A14	3	Plunger Rod Assembly
601G15	3	Plunger Tube, porc. lined steel 3½"
612X4	3	Set Shims, 1⅜"W. x 2¾" L.

GASKETS

200C2	2	Felt gasket 3/32"x1⅞"x2⅛"
200E3	1	Gasket, ⅛"x2¾"x4⅛" gear housing
200E4	1	Gasket, air chamber
200F27	3	Gasket, guide, 3½"
200K4	7	Valve Cap and Cage
200H2	3	Gasket, tube, 3½"

WRENCHES

326A7	1	Wrench, regulator spanner
326A32	1	Ball Lifter, 1⅜"
326A46	2	¾" End Wrenches (⅛" Hex Nut, cup type regulator
326C2	1	Wrench, socket 21/32"
326C3	1	Wrench, socket 25/32"
326C6	1	Wrench, socket 1⅛"
326D6	1	Socket Wrench Handle ½"sq x32"
326F8	1	Valve Seat Puller

The Hardie Manufacturing Co., Hudson, Mich.

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BRANCHES

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Export Dept.: Book Tower, Detroit, Mich.

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