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, ¾"x3¼", countershaft cap.....
121K36	14	Stud, ⅝"x3¼", valve, clamp and caps..
121K52	12	Stud, ⅝"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, ⅝".....
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 4 5/16".....
573A20	2	Bearing, Crankshaft, L.H. 2½"B. x 4 5/16".....
573A23	3	Bearing, Countershaft, U.H. 1½"B. x 4 5/16".....
573A24	3	Bearing, Countershaft, L.H. 1½"B. x 4 5/16".....
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, 1 1/16"W.x4"L. Countershaft cap.....
612J18	4	Shims, 1¾"W.x1⅞"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, 1¼" Taper.....
635C2	1	Ring, Gear Case.....
635C7	*	Dowel pins—stands.....
680A2	5	Drain Cock, ¼".....

HARDIE CUP TYPE REGULATOR REPAIRS

Part No.	No. Used	
111C9	1	Stainless steel valve ball.....
121K32	2	Studs ¾" x 3¼".....
187K	2	Full hex nuts, ⅜".....
192G	3	Jam hex nut, 5/16"—20 SAE.....
200E47	1	Gasket — yoke.....
200K4	1	Cap gasket, 1⅞" I.D. x 2½" O.D.....
201B12	4	Stem packing, 1 1/16" x ¾" x ⅜".....
256A19	1	Galv. Street elbow 1" drilled and tapped ⅛".....
321S	1	Wrought washer, 1".....
431A36		Regulator assembly.....
580A15	1	Plunger cup, 2¼" O.D., ½" high, ⅛" hole.....
620B8	1	Regulator plunger disc.....
620D14	1	Regulator stem, upper half ¾" x 4¾" stainless steel.....
620D15	1	Regulator stem and lower half, ¾" x 6⅞".....
620D16	1	Regulator stem tip, 5/16" x 1⅛" stainless steel.....
620E4	1	Regulator spring, 11/16" x 3 1/16".....
620F30	1	Regulator yoke.....
620G11	1	Regulator adjusting screw.....
620G48	1	Regulator cap clamp.....
620G43	1	Regulator porcelain lined plunger tube 2¼"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, ⅜".....

PLUNGER REPAIRS

Part No.	No. Used	
125A16	3	Bushings (wrist pin) 1⅜"x1⅛"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"x6¼" 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, 5/16" 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, 1⅛"W. x 2¼" L.....

GASKETS

Part No.	No. Used	
200C2	2	Felt gasket 3/32"x1 1/16"x2 7/16".....
200E3	1	Gasket, 5/16"x2¾"x4 7/16" gear housing..
200E4	1	Gasket, air chamber.....
200F27	3	Gasket, guide, 3½".....
200K4	7	Valve Cap and Cage.....
200H2	3	Gasket, tube, 3½".....

WRENCHES

Part No.	No. Used	
326A7	1	Wrench, regulator spanner.....
326A32	1	Ball Lifter, 1⅜".....
326A46	2	¾" End Wrenches (5/16" Hex Nut, cup type regulator.....
326C2	1	Wrench, socket 21/32".....
326C3	1	Wrench, socket 25/32".....
326C6	1	Wrench, socket 1 1/16".....
326D6	1	Socket Wrench Handle ½"sq x32".....
326F8	1	Valve Seat Puller.....

The Hardie Manufacturing Co., Hudson, Mich.

BRANCHES

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