

PARTS BREAKDOWN FOR MODEL DP-2B/DPH-2B  
(WITH D-30 PUMP)  
RICE HYDRO INC.

PUMP PARTS:

REF#	PART NUMBER..	DESCRIPTION..	QTY REQ'D
1	HYPRO-9910-629011	PUMP BODY, W/BOLTS & WASHERS	1
2	HYPRO-9910-620101	HEAD ASSEMBLY (RIGHT HAND)	1
3	HYPRO-9910-620102	HEAD ASSEMBLY (LEFT HAND)	1
4	HYPRO-9910-621430	M12 X 55 BOLT	8
5	HYPRO-9910-620085	DESMOPAN DIAPHRAGM OPTIONAL	2
5	HYPRO-9910-620080	BUNA-N DIAPHRAGM STANDARD	2
6	HYPRO-9910-620120	PISTON	2
7	HYPRO-9910-620140	CONNECTING ROD	2
8	HYPRO-9910-620110	PISTON SLEEVE	2
9	HYPRO-9910-580470	RETAINER RING	2
10	HYPRO-9910-380300	CONNECTING ROD PIN	2
11	HYPRO-9910-380080	RING PIN	4
12	HYPRO-9910-160230	PISTON RING	2
14	HYPRO-9910-1040180	RETAINING WASHER	2
15	HYPRO-9910-580360	DIAPHRAGM BOLT	2
16	HYPRO-9910-180150	NUT	2
18	HYPRO-9910-620030	O-RING	4
19	HYPRO-9910-1409050	COMPLETE VALVE ASSEMBLY	4
20	HYPRO-9910-111120	RETAINER RING	2
21	HYPRO-9910-620020	COVER	1
22	HYPRO-9910-620210	O-RING	1
23	HYPRO-9910-620291	RETAINING RING	1
24	HYPRO-9910-620191	BEARING	1
25	HYPRO-9910-850850	M6 X 30 BOLT	2
26	HYPRO-9910-550331	WASHER	2
28	HYPRO-9910-180101	O-RING	2
29	HYPRO-9910-550030	OIL SIGHT GLASS, ONLY AVAIL IN RH1 KIT	1
30	HYPRO-9910-550040	O-RING	1
31	HYPRO-9910-550056	CAP SIGHT GLASS, ONLY AVAIL IN RH1 KIT	1
32	HYPRO-9910-620160	SPACER	1
33	HYPRO-9910-550060	ROLLER BEARING	1
34	HYPRO-9910-620130	SEAL	1
35	HYPRO-9910-620330	RETAINER RING	1
36	HYPRO-9910-620170	CRANKSHAFT	1
37	HYPRO-9910-620150	MANIFOLD	1
39	HYPRO-9910-550350	O-RING OUTLET ADAPTER	2
42	HYPRO-9910-390060	O-RING	4
44	HYPRO-9910-621780	M8 X 40 BOLT	8
45	HYPRO-9910-629211	UPPER AIR CHAMBER	1
46	HYPRO-9910-550190	ACCUMULATOR DIAPHRAGM BUNA-N	1
47	HYPRO-9910-622070	COMPLETE LOWER AIR CHAMBER	1
49	HYPRO-9910-650542	O-RING	1
50	HYPRO-9910-180020	AIR VALVE	1
60	HYPRO-9910-650660	DIAPHRAGM HOLDER	1
61	HYPRO-9910-650670	SUCTION DIAPHRAGM	1
62	HYPRO-9910-650690	CLAMP	1
66	HYPRO-2406-0023	DRAIN PLUG, OIL	1
67	HYPRO-9910-740290	ORING	1
68	HYPRO-9910-620930	SPACER	1
69	HYPRO-9910-620940	SPACER	1
70	HYPRO-9910-380230	BEARING	1
74	HYPRO-9910-390270	NUT	2
75	HYPRO-9910-450148	OUTLET ADAPTER STRAIGHT	1

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TIGHTENING TORQUE: (PUMP)

REF#	DESCRIPTION	IN. LBS.	NM
4	BOLT	393.7	44.1
15	BOLT	262.5	29.4
16	NUT	350.0	39.2
25	M6 X 30 BOLT	87.5	9.8
44	M8 X 40 BOLT	175.0	19.6
64	M10 X 16 BOLT	87.5	9.8
74	NUT	175.0	19.6

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GEAR REDUCTION PARTS:

REF#	PART NUMBER	DESCRIPTION	QTY	REQ'D
1	HYPRO-9910-620561	O-RING	1	1
2	HYPRO-9910-180030	BOLT	1	1
3	HYPRO-9910-621000	PUMP ADAPTER FLANGE	1	1
4	HYPRO-9910-620990	BEARING	1	1
5	HYPRO-9910-651620	GEAR	1	1
6	HYPRO-9910-200231	LOCK WASHER	6	6
7	HYPRO-9910-620470	BOLT	3	3
8	HYPRO-9910-620960	GEARBOX BODY	1	1
9	HYPRO-2406-0023	PLUG	2	2
10	HYPRO-9910-740290	O-RING	2	2
11	HYPRO-9910-651000	BOLT	4	4
12	HYPRO-9910-621010	BOLT	4	4
13	HYPRO-9910-1140370	DIPSTICK	1	1
14	HYPRO-9910-621660	PINION GEAR	1	1
15	HYPRO-9910-320240	RETAINING RING EXTERAL	2	2
16	HYPRO-9910-961780	BEARING	1	1
17	HYPRO-9910-961790	RETAINING RING INTERNAL	1	1
18	HYPRO-9910-961800	SEAL	1	1
19	HYPRO-9910-881090	KEY	1	1
20	HYPRO-9910-620950	GASKET	1	1
27	HYPRO-9910-620980	OLD STYLE NOT AVAILABLE	1	1
28	HYPRO-9910-620970	MUST ORDER KIT 1640	1	1

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TIGHTENING TORQUE: (GEAR REDUCTION)

REF#	DESCRIPTION	IN. LBS.	NM
2	BOLT	218.7	24.5
7	BOLT	171.4	19.6
9	PLUG	171.4	19.6
11	BOLT	218.7	24.5
12	BOLT	218.7	24.5

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REF#	PART NUMBER	DESCRIPTION
MISCELLANEOUS PARTS:		
NA	SPEC-POP-OFF	POP OFF VALVE
NA	LINESTRAINER-3/4	COMPLETE LINESTRAINER ASSEMBLY
NA	GAUGE-600	0-600 PSI LIQUID GAUGE
NA	HOSE-1/2X8-RH	8' FOOT OUTLET HOSE
NA	FITTING-1/2-MPIPE	RIGID END
NA	FITTING-1/2-MPX	SWIVEL END
NA	HOSE-1/2X2500XFT	CUSTOMER TO SPECIFY LENGTH
NA	BALLVALVE-1/2	1/2" APOLLO BALLVALVE
NA	CHECKVALVE-1/2CON	1/2" CONBRACO CHECKVALVE
NA	SPRAY-6815-700-1/2	1/2" PRESSURE RELIEF VALVE
NA	HYPRO-9910-D30-W/OGR	D30 TWIN DIAPHRAGM PUMP W/O GR
NA	HYPRO-9910-KIT-1640	GEAR REDUCTION FOR D-30
NA	BRIGG-12S432-0536-F8	5.5 HP ENGINE FLANGE MOUNT
NA	HONDA-GX160UT2-QX2	5.5 HP ENGINE FLANGE MOUNT
NA	SWIVEL-3/4	HOSE SWIVEL 3/4"
NA	HOSEWASHER-3/4	HOSE WASHER 3/4"
NA	COUPLERBODY-1/2	FEMALE CONNECT TO OUTLET HOSE
NA	COUPLERPLUG-1/2	MALE PUMP OUTLET PIPING
NA	INLET-HOSE-ASSEMBLY	1" X 9' FOOT CLEAR HOSE W/STRAINER
KITS:		
	HYPRO-9910-KIT-RH1	SIGHT GLASS ASSEMBLY REF. #28 O-RING QTY 1 REF. #29 OIL SIGHT GLASS QTY 1 REF. #30 O-RING QTY 1 REF. #31 CAP FOR SIGHT GLASS QTY 1
	HYPRO-9910-KIT-RH2	SUCTION DIAPHRAGM ASSEMBLY REF. #28 O-RING QTY 1 REF. #60 DIAPHRAGM HOLDER QTY 1 REF. #61 SUCTION DIAPHRAGM QTY 1 REF. #62 DIAPHRAGM CLAMP QTY 1
	HYPRO-9910-KIT-RH3	VALVE ASSEMBLY & O-RING KIT REF. #18 O-RINGS QTY 4 REF. #19 VALVE ASSEMBLY QTY 4
	HYPRO-9910-KIT-RH4	DIAPHRAGM REBUILD KIT REF. #18 O-RINGS QTY 4 REF. #19 VALVES QTY 4 REF. #5 BUNA-N DIAPHRAGMS QTY 2 REF. #46 ACCUMULATOR DIAPHRAGM QTY 1 REF. #61 SUCTION DIAPHRAGM QTY 1
	HYPRO-9910-KIT-RH5	DIAPHRAGM REPAIR KIT REF. #18 O-RINGS QTY 4 REF. #5 BUNA-N DIAPHRAGMS QTY 2 REF. #46 ACCUMULATOR DIAPHRAGM QTY 1