

H & J Machining
 6757 Hwy 200 – PO Box 126
 Carrington, ND 58421

Full service engine machine shop.
 Can bore cylinders up to 9" in diameter and 30" long.

Phone: 701-652-3289
 Fax: 701-652-3299
 www.HAndJMachining.com

Part #	Description	Replaces OEM Part #	List Price
Valves - John Deere			
13007	Early B (1000 - 95999) / BR Intake	B362R	14.00
13008	Early B (1000 - 95999) / BR Exhaust	B363R, B2878R	20.00
00218	Late B (96000 & Up) / 50 Intake	B1792R, B2863R	15.00
00219	Late B (96000 & Up) / 50 Exhaust	B1793R, B2503R	18.00
13011	Early A (410000 - 487999) / AR Intake	A454R	16.00
13010	Early A (410000 - 487999) / AR Exhaust	A588R, A4239R	20.00
00172	Late A (488000 & Up) / 60 Intake	A4193R, A2334R	20.00
00171	Late A (488000 & Up) / 60 Exhaust	A3618R, A2335R	22.00
00619	520 / 530 Intake	B3749R	11.00
00618	520 / 530 Exhaust	B3750R	20.00
00621	620 / 630 Intake	A5627R	20.00
00620	620 / 630 Exhaust	R20246R	30.00
00651	R / 70 Diesel Intake	R57R	24.00
00610	720 / 730 Gas Exhaust	R2709R, R20247	38.00
00611	720 / 730 Gas Intake	R2708R	30.00
00613	720 / 730 Diesel Intake	F3213R	28.00
00612	R / 70 / 720 / 730 Diesel Exhaust	F3214R	39.00
00684	70 Gas Intake	F1219R	26.00
00685	70 Gas Exhaust	F1220R	33.00
13029	80 / 820 / 830 Intake	R1336R	27.00
13027	80 / 820 / 830 Exhaust	R1337R	40.00
13031	Early D (30400 - 109943) Intake & Exhaust	D944R	62.00
13030	Late D (109944 & Up) Intake & Exhaust	AD2379R, D3411R, D3121R, D1723R, D2287R	64.00
13012	GP Intake & Exhaust	C1012R	41.00
13009	Early G (1000 - 12999) Intake	F51R	42.00
13009E	Early G (1000 - 2600) Exhaust	F52R	42.00
13158	Early G (2601 - 9560) Exhaust	F389R	46.00
13158S	Early G (9561 - 12999) Exhaust	F532R	46.00
00653	Late G (13000 & Up) Intake	F577R	30.00
00652	Late G (13000 & Up) Exhaust	F578R	51.00
13159	H Intake	H115R	12.00
13170	H Exhaust	H116R, H1110R	19.00
00663	M / 40 / 320 / 330 Intake	M100T	12.00
00662	M / 40 / 320 / 330 Exhaust	M101T	16.00
00617	420 / 430 / 440 Intake	M3153T	12.00
00616	420 / 430 / 440 Exhaust	M3154T	19.00
00131	L & LA Exhaust	L822T	16.00
00132	L & LA Intake	L821T	10.00
13184	1-1/2 HP JD E Intake & Exhaust		18.00
13185	3 HP JD E Intake & Exhaust		20.00

Part #	Description	Replaces OEM Part #	List Price
Valves - Rumely			
	12-20 (K)		58.00
	15-25 (L)		58.00
	20-30 (W)		58.00
	16-30 (H)		58.00
Valves - Misc			
SV29	L Case Intake	01156 AB1	28.00
00107	L Case Exhaust	01157AB1	28.00
	Set of L Case Valves (4 Intake & 4 Exhaust)		216.00
13186	Hart Parr 18-36 Intake & Exhaust	9379	52.00
13189	Hart Parr 12-24, 28-50 Intake & Exhaust	11772	24.00
00242	W9 IHC Intake	52824-D	16.00
13272	Titan 10-20 Intake & Exhaust		55.00
13187	Valve Blank (3/8" Stem, 2-1/8" Head, 9-5/8" Length, 0.110" Margin, 45 Degrees)		27.00
13150	Valve Blank (3/8" Stem, 2-1/2" Head, 9-5/8" Length, 0.150" Margin, 30 Degrees)		37.00
13245	Valve Blank (3/8" Chrome Stem, 1.8" Stainless Head, 8-1/2" Length, 45 Degrees)		27.00
13278	Valve Blank (5/16" Stem, 2" Head, 8-1/2" Length, 45 Degrees)		19.00
13328	Valve Blank (11/32" Stem, 1-5/8" Head, 8-1/2" Length, 45 Degrees)		18.00
13279	Valve Blank (11/32" Stem, 2" Head, 8-1/2" Length, 45 Degrees)		19.00
13242	Valve Blank (3/8" Chrome Stem, 2" Head, 8-1/2" Length, 45 Degrees)		21.00
13236	Valve Blank (3/8" Chrome Stem, 2-1/4" Head, 8-1/2" Length, 45 Degrees)		25.00
13228	Valve Blank (7/16" Stem, 2" Head, 10" Length, 45 Degrees)		30.00
13227	Valve Blank (7/16" Stem, 2-1/4" Diesel Intake Steel Head, 10" Length, 45 Degrees)		34.00
13167	Valve Blank (7/16" Stem, 2-1/4" Stainless Head, 10-1/2" Length, 45 Degrees)		47.00
13281	Valve Blank (7/16" Stem, 2-1/2" Head, 10" Length, 45 Degrees)		40.00
13166	Valve Blank (7/16" Stem, 2-7/8" Head, 10-1/2" Length, 45 Degrees)		44.00
13282	Valve Blank (7/16" Stem, 3-1/8" Head, 10-1/2" Length, 45 Degrees)		44.00
13229	Valve Blank (1/2" Stem, 2-1/2" Head, 10" Length, 45 Degrees)		44.00
13090	Valve Blank (1/2" Stem, 3" Head, 10-1/2" Length, 0.150" Margin, 30 Degrees)		52.00
13171B	Valve Blank (9/16" Stem, 2.860" Head, 9-1/4" Length, 30 Degrees)		49.00
VB-1	Valve Blank (9/16" Stem, 2-15/16" Head, 10-1/2" Length, 45 Degrees)		52.00
VB-7	Valve Blank (5/8" Stem, 3-1/16" Head, 10-3/4" Length, 45 Degrees)		52.00
13297	Valve Blank (5/8" Stem, 3-1/4" Head, 11" 45 Degrees)		64.00
13296	Valve Blank (11/16" Stem, 3.5" Head, 11" Length, 45 Degrees)		64.00
VB-3	Valve Blank (3/4" Stem, 3.810" Head, 16-3/8" Length, 45 Degrees)		64.00
VB-2	Valve Blank (3/4" Stem, 4" Head, 11" Length, 45 Degrees)		74.00
VB-5	Valve Blank (7/8" Stem, 3-3/4" Head, 11-1/2" Length, 30 Degrees)		55.00
VB-6	Valve Blank (7/8" Stem, 4-7/16" Head, 11-1/2" Length, 30 Degrees)		55.00

Part #	Description	Replaces OEM Part #	List Price
Valve Guides - John Deere			
VG1	Early B (1000 - 95999) / BR	B358R	8.00
VG11	Late B (96000 & Up) / 50	B1927R	12.00
VG2	Early A (410000 - 487999) / AR	A35R	15.00
VG3	520 / 530	B3757R	12.00
VG4	620 / 630	A5707R	12.00
VG5	Late A (488000 & Up) / R / 60 / 70D / 720D / 730D / 80 / 820 / 830	A2467R	11.00
VG6	Early D (30400 - 109943)	86R	19.50
VG7	Late D (109944 & Up)	D1719R	14.00
VG8	GP	C246R	11.00
VG9	Early G (1000 - 12999)	F509R	18.00
VG10	Late G (13000 & Up)	F727R	14.00
VG12	M / 40 / 320 / 330	M40T	12.00
VG13	420 / 430 / 440	M3036T	12.00
VG14	H	H589R	10.00
VG15	70 Gas	F1222R	12.00
VG16	L / LA	L826T	7.00
VG18	720 / 730 Gas	F3169R	12.00
Valve Guides - Misc			
140-1363U	L Case	4512A	18.00
VG20	Hart Parr 18-36	9516	19.00
VG21	Hart Parr 12-24, 28-50	11021	19.00
VG23	10-20 IHC Titan		24.00
Valve Springs - John Deere (10% stronger than OEM springs)			
VS1	Early B (1000 - 95999) / BR	B365R	14.00
VS3	Late B (96000 & Up) / 50 Without Rotators	B1794R	14.00
VS2	A / AR / 60 Without Rotators	A356R	14.00
VS4	GP	C2109R	14.00
VS5	G / 70 Gas Without Rotators	F53R	14.00
VS6	Early D (30400 - 109943)	485R	14.00
VS7	Late D (109944 & Up)	D1724R	16.00
VS8	520 / 530	B3751R	14.00
VS9	A / 60 With Rotators / 620 / 630	A4936R	14.00
VS10	70 / 720 / 730 Diesel	F2143R	14.00
VS11	R / 80 / 820 / 830	R1338R	14.00
VS12	M / 40 / 320 / 330 / 420 / 430	M102T	5.00
VS13	H	H117R	14.00
VS14	70 With Rotators / 720 / 730 Gas	F1114R	14.00
VS15	L & LA	L4593T	8.00
VS16	Late B (96000 & Up) / 50 With Rotators	B3331R	14.00

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Valve Springs - Misc			
VS20	Hart Parr 18-36, 12-24 (20% stronger than OEM)	9800	14.00
VS21	U Allis - Will fit other early Allis engines as well (25% stronger than OEM)		18.00
VS22	Rumely Oil Pull 12-20K, 16-30H, 15-25L, 20-30W		20.00
VS23	Rumely Oil Pull 20-40G		20.00
VS24	L / LA Case	04195A1	14.00
VS25	10-20 IHC Titan		14.00
VS26	12-25, 25-50 Avery		14.00
VS27	40-80 Avery		18.00
Valve Spring Retainer - John Deere			
VR1	Early A (410000 - 487999) / AR	A245R	24.00
VR2	GP	C1604R	24.00
VR3	Early B (1000 - 95999) / BR	B366R	12.00
VR4	G (1000 & Up)	F54R	15.00
Valve Spring Retainer - Misc			
VR5	10-20 IHC Titan		21.00
Valve Spring Retainer Locks - John Deere (Sold by the pair)			
RL1	Late A (488000 & Up / AR / 60 / 70 / 720 / 730 / R / 80 / 820 / 830)	A2332R	14.00
RL3	Early A (410000 - 487999) / AR	A130R	15.00
RL4	Early D (30400 - 109943)	D896R	24.00
RL6	Late D (109944 & Up) / G (1000 & Up)	D1720R	15.00
RL5	GP	C1605R	15.00
RL7	Early B (1000 - 95999) / BR		1.00
RL8	Late B (96000 & Up) / 50		1.00

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Valve Seats Inserts - John Deere			
VSI-1	Early & Late B Intake (1-1/2 X 1-3/4 X 1/4)		5.50
VSI-2	Early & Late B Exhaust (1-3/8 X 1-5/8 X 7/32)		5.50
VSI-3	Early A Intake (1-7/8 X 2-1/4 X 1/4)		12.00
VSI-4	Early A Exhaust (1-5/8 X 2 X 1/4)		10.50
VSI-16	Late A Intake (1-15/16 X 2-1/4 X 1/4)		12.50
VSI-17	Late A Exhaust (1-3/4 X 2-1/16 X 9/32)		10.50
VSI-5	Early & Late G Exhaust (2-1/8 X 2-1/2 X 9/32)		16.00
VSI-6	Early & Late G Intake (2-3/16 X 2-11/16 X 9/32)		18.00
VSI-7	Early D Intake & Exhaust (2-5/16 X 2-11/16 X 9/32)		22.00
VSI-8	Late D Intake & Exhaust (2-1/4 X 2-3/4 X 9/32)		22.00
VSI-9	80 / 820 / 830 Intake (without injector sleeve) (2-1/4 X 2-11/16 X 1/4)		18.00
VSI-12	80 / 820 / 830 Intake (with injector sleeve) (2-1/4 X 2-11/16 X 7/32)		24.00
VSI-10	80 / 820 / 830 Exhasut (1-13/16 X 2-3/16 X 1/4)		15.50
VSI-13	720 / 730 Diesel Intake (2-3/16 X 2-1/2 X 1/4)		17.00
VSI-14	R / 70 / 720 / 730 Diesel Exhaust (1-11/16 X 1-15/16 X 1/4)		15.00
VSI-15	R / 70 Diesel Intake (2-1/16 X 2-7/16 X 9/32)		19.00
VSI-19	2-1/2 X 3 X 5/16		26.50
VSI-20	2-1/4 X 2-5/8 X 1/4		19.00
VSI-21	2 X 2-3/8 X 9/32		13.20
VSI-22	2-11/16 X 2-15/16 X 1/4		35.00
Piston Rings			
PR-1	6 X 1/4 - Set of 10 (8 Compression, 2 Oil)		144.00
PR-2	6 1/2 X 5/16 - Set of 10 (8 Compression, 2 Oil)		162.00
PR-3	5 3/4 X 3/16 - Set of 10 (8 Compression, 2 Oil) - GP JD - Std / 0.045 / 0.090		140.00
PR-4	6 3/4 X 1/4 - - Set of 10 (8 Compression, 2 Oil) - D JD - Std / 0.045 / 0.090		175.00
PR-5	6 1/8 X 1/4 (8 Compression, 2 Oil) - G JD - Std / 0.045		175.00
PR-6	5-3/4 (8 - 1/8" Compression, 4 - 1/4" Oil) - R JD - Std		176.00
Piston Ring Groove Spacers			
RGS-4	4-1/2		4.00
RGS-1	5-1/2		8.00
RGS-5	5-3/4		8.00
RGS-2	6-1/2		10.00
RGS-3	6-3/4		8.00

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Wrist Pins - John Deere			
WP18	B (1000-59999) (.010 oversize)		35.00
WP17	B (60000 – 95999) (.010 oversize)		35.00
WP16	B (960000 & Up) (.010 oversize)		35.00
WP10	Early D (.010 oversize)		58.00
WP21	Early D (.020 oversize)		58.00
WP11	Late D (.010 oversize)		58.00
WP22	Late D (.020 oversize)		58.00
WP12	Early GP w/1 tapered hole (.010 oversize)		58.00
WP23	Early GP w/1 tapered hole (.020 oversize)		58.00
WP13	Late GP w/1 tapered hole (.010 oversize)		58.00
WP24	Late GP w/1 tapered hole (.020 oversize)		58.00
WP25	G (.010 oversize)		58.00
WP28	Early A (.015 Oversize)		48.00
Injector Tubes - John Deere			
IT-1	R / 70D / 720D / 80	AF3190R	165.00
	O-ring	R1225R	3.00
Clutch Springs - John Deere			
CS-1	80 / 820 / 830	R1860R	5.00
Pushrod Tubes - John Deere			
PT-1	A (410000 - 487999)	A2052R	16.00
PT-2	B (1000 - 95999)	B1290R	16.00
PT-3	B (96000 & Up)	B1800R	16.00
Gasket Sets - John Deere			
GS10	D (30400 - 109943) Overhaul Set		175.00
GS11	D (109944 & Up) Overhaul Set		175.00
GS12	A (410000 - 487999) & AR / AO (250000 - 259999) Overhaul Set		125.00
GS13	A (488000 - 583999) & AR / AO (260000 - 271999) Head Set		80.00
GS14	B (1000 - 59999) & BR / BO (325000 - 328999) Head Set		125.00
GS15	B (96000 & 200999) Head Set		85.00
GS16	B (60000 - 95999) & BR / BO (329000 & Up) Overhaul Set		125.00
GS17	G (1000 - 7099) Overhaul Set		165.00
GS18	G (7100 & Up) Overhaul Set		165.00
GS19	H Overhaul Set		75.00
GS20	620 / 630 Head Set		107.42
GS21	A (584000 & up) Overhaul Set		128.00
GS22	B (201000 & Up) Overhaul Set		85.00
GS24	B (201000) Head Set		71.00

Part #	Description	Replaces OEM Part #	List Price
Exhaust Manifold & Head Studs			
ST3	Manifold Stud 7/16 X 3		6.00
ST1	Manifold Stud 7/16 X 4-3/4		16.00
ST2	Manifold Stud 7/16 X 5-3/4		16.00
ST4	Manifold Stud 7/16 X 6-1/8		16.00
ST5	Styled D JD Head Stud 3/4 X 7-7/16		26.00
John Deere 4 Cylinder Starting Engine Parts			
SE10	Engine Overhaul Kit with Sleeves (Sleeves, Pistons, Rings, Wrist Pins, Wrist Pin Clips, Rods, Main Bearings, Gaskets and Seals)		1,442.00
SE11	Engine Overhaul Kit (Pistons, Rings, Wrist Pins, Wrist Pin Clips, Rods, Main Bearings, Gaskets and Seals)		1,150.00
SE12	Valve Trains Kit (Intake & Exhaust Valves, Valve Springs & Valve Guides)		185.00
SE13	Set of 4 Pistons with Rings, Wrist Pins & Wrist Pin Clips (Standard)		600.00
SE14	Std Main Bearings for 1-1/8" Crankshaft		46.00
SE14-1	.010 Main Bearings for 1-1/8" Crankshaft		46.00
SE14-2	.020 Main Bearings for 1-1/8" Crankshaft		46.00
SE14-3	.030 Main Bearings for 1-1/8" Crankshaft		46.00
SE21	Std Main Bearings for 1-1/2" Crankshaft		26.00
SE21-1	.010 Main Bearings for 1-1/2" Crankshaft		46.00
SE21-2	.020 Main Bearings for 1-1/2" Crankshaft		32.00
SE21-3	.030 Main Bearings for 1-1/2" Crankshaft		46.00
SE20	Wrist Pin	F1811R	33.00
SE22	Standard Ring Set	AF1994R	64.00
SE23	Standard Sleeve	F1869R	93.00
SE52	Sleeve O-ring		4.00
SE24	Set of 4 Connecting Rods (.010 undersize)		400.00
SE24-2	Set of 4 Connecting Rods (.020 undersize)		400.00
SE82	Connecting rod lock plate	F1808R	4.00
SE27	Intake Valve	F1848R	15.00
SE28	Exhaust Valve (stainless steel)	F3217R	18.00
VG17	Valve Guide	F3531R	8.00
SE29	Valve Spring	F20129R	8.00
SE30	Valve Spring Retainer Locks (pair)	F1851R	9.00
SE44	Thrust Washer 1-1/8" Mains	F1843R	18.00
SE61	Thrust Washer for 1-1/2" Mains		21.20
SE49	Front / Rear Crankshaft Seal for 1-1/8" Mains		8.04
SE50	Crankshaft Rear Seal for 1-1/2" Mains		10.03

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SE33	Water Pump Shaft		18.00
SE34	Water Pump to Cylinder Tube	F1967R	8.00
SE45	Water Pump Packing		10.46
SE46	Water Pump Seal		9.49
SE35	Water Pump Shim Gasket	F1965R	3.00
SE36	Oil Pump Shim Gasket (0.006" Thick)	F1865R	3.50
SE37	Oil Pump Shim Gasket (0.015" Thick)		3.50
SE38	Timing Cover Gasket	F1787R	12.50
SE39	Wico Distributor	AR12370R	302.00
SE62	Distributor Spark Plug Wire Grommet		1.38
SE63	Distributor Cover Gasket		3.24
SE40	Coil	X9295	67.00
SE69	Coil Core		13.46
SE41	Points	X9021	18.00
SE42	Condensor	X9263	12.00
SE64	Spark Plug Wire Set		26.00
	Reground Camshaft (with core exchange)		150.00
	Reground Crankshaft		200.00
SE43	Carburator Kit		39.00
SE51	70D / 730D Gasket Set		153.53
SE58	80 / 830 Gasket Set		171.95
SE66	Rocker Arm Shaft seal		2.02
SE67	Head Gasket		23.36
SE68	Intake Gasket		14.00
SE73	Valve Cover Gasket		4.00
SE60	Clutch Disc Return Spring		4.00
SE74	Flywheel Ring Gear		88.95
Labor on 4 Cylinder Starting Engines			
	Grind Crankshaft		90.00

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John Deere R Starting Engine Parts			
SE21	Main Bearing		25.23
SE21-2	Main Bearing (.020 undersize)		30.26
SE75	Rod Bearing (standard)		53.29
SE47	Rod Bearing (.020 undersize)		53.62
SE48-2	Set of 2 Pistons with Rings (.020 oversize)		170.00
SE57	Intake Valve	R785R	15.00
	Exhaust Valve	R786R	20.00
VG19	Valve Guide	R691R	7.00
SE70	Valve Spring		7.00
SE54	Gasket Set		162.53
SE71	Head Gasket		23.58
SE72	Head Bolt Lead Washer		0.50
SE55	Std Ring Set		38.00
SE61	Thrust Washer		21.20
SE65	Rear Crank Seal		23.74
SE74	Flywheel Ring Gear		88.95

Wanted

Witte stationary engines - headless and sideshafts - Witte engine carts