

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	18.00
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	18.00
00621	620 / 630 Intake	A5627R	20.00
00620	620 / 630 Exhaust	R20246R	28.00
00651	R / 70 Diesel Intake	R57R	24.00
00610	720 / 730 Gas Exhaust	R2709R	36.00
00613	720 / 730 Diesel Intake	F3213R	24.00
00612	R / 70 / 720 / 730 Diesel Exhaust	F3214R	36.00
00684	70 Gas Intake	F1219R	24.00
00685	70 Gas Exhaust	F1220R	30.00
13029	80 / 820 / 830 Intake	R1336R	25.00
13027	80 / 820 / 830 Exhaust	R1337R	37.00
13031	Early D (30400 - 109943) Intake & Exhaust	D944R	56.00
13030	Late D (109944 & Up) Intake & Exhaust	AD2379R, D3411R, D3121R, D1723R,	57.00
13012	GP Intake & Exhaust	C1012R	37.00
13009	Early G (1000 - 12999) Intake	F51R	38.00
13158	Early G (2601 - 9560) Exhaust	F389R	44.00
13158S	Early G (9561 - 12999) Exhaust	F532R	44.00
00653	Late G (13000 & Up) Intake	F577R	27.00
00652	Late G (13000 & Up) Exhaust	F578R	47.00
13159	H Intake	H115R	12.00
13170	H Exhaust	H116R	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	15.00
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 & Exhaust	01157 AB1, 01156 AB1	30.00
		Set of 8	216.00
13186	Hart Parr 18-36 Intake & Exhaust	9379	52.00
13189	Hart Parr 12-24, 28-50 Intake & Exhaust		24.00
	Titan 10-20 Intake & Exhaust		75.00
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
13090	Valve Blank (1/2" Stem, 3" Head, 10-1/2" Length, 0.150" Margin, 30 Degrees)		52.00
13166	Valve Blank (7/16" Stem, 2-7/8" Head, 10-1/2" Length, 45 Degrees)		44.00
13167	Valve Blank (7/16" Stem, 2-1/4" Head, 10-1/2" Length, 45 Degrees)		47.00
	Valve Blank (5/8" Stem, 3-1/16" Head, 10-3/4" Length, 45 Degrees)		52.00
	Valve Blank (9/16" Stem, 2-15/16" Head, 10-1/2" Length, 45 Degrees)		52.00
	Valve Blank (3/4" Stem, 3.810" Head, 16-3/8" Length, 45 Degrees)		64.00
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	15.00
VG20	Hart Parr 18-36	9516	19.00

Part #	Description	Replaces OEM Part #	List Price
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	7.00
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
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
Valve Spring Retainer - John Deere			
VR1	Early A (410000 - 487999) / AR	A245R	24.00
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

Part #	Description	Replaces OEM Part #	List Price
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	Late G Exhaust (2-1/8 X 2-1/2 X 9/32)		16.00
VSI-6	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)		18.00
VSI-8	Late D Intake & Exhaust (2-1/4 X 2-3/4 X 9/32)		19.00
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)		18.00
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
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		130.00
Piston Ring Groove Spacers			
RGS -1	5 1/2		8.00
RGS-2	6 1/2		10.00
Injector Tubes			
IT-1	R / 70D / 720D /80	AF3190R	150.00
	O-ring	R1225R	3.00
Pushrod Tubes			
PT-1	A (410000-476999)	A2052R	15.00
PT-2	B (1000-95999)	B1290R	15.00
PT-3	B 96000 & Up)	B1800R	15.00

Part #	Description	Replaces OEM Part #	List Price
John Deere 4 Cylinder Starting Engine Parts			
	Engine Overhaul Kit with Sleeves (Sleeves, Pistons, Rings, Wrist Pins, Wrist Pin Clips, Rods, Main Bearings, Gaskets and Seals)		1,442.00
			1,150.00
	Engine Overhaul Kit (Pistons, Rings, Wrist Pins, Wrist Pin Clips, Rods, Main Bearings, Gaskets and Seals)		
	Valve Trains Kit (Intake & Exhaust Valves, Valve Springs & Valve Guides)		185.00
	Set of 4 Pistons with Rings, Wrist Pins & Wrist Pin Clips (Standard & .010 oversize)		600.00
	Set of 4 Pistons with Rings & Wrist Pin Clips (Standard & .010 oversize)		500.00
	Wrist Pin	F1811R	33.00
	Standard Ring Set	AF1994R	54.00
	Standard Sleeve	F1869R	93.00
	Set of 4 Connecting Rods (.010 & .020 undersize)		400.00
	Intake Valve	F1848R	15.00
	Exhaust Valve (stainless steel)	F3217R	15.00
	Valve Guide	F3531R	8.00
	Valve Spring	F20129R	8.00
	Valve Spring Retainer Locks (pair)	F1851R	9.00
	Main Bearing (Available in any size)		40.00
	Water Pump Shaft		14.00
	Water Pump to Cylinder Tube	F1967R	8.00
	Water Pump Shim Gasket	F1965R	3.00
	Oil Pump Shim Gasket (0.006" Thick)	F1865R	3.50
	Oil Pump Shim Gasket (0.015" Thick)		3.50
	Timing Cover Gasket	F1787R	12.50
	Wico Distributor	AR12370R	302.00
	Coil	X9295	67.00
	Points	X9021	18.00
	Condensor	X9263	12.00
	Reground Camshaft (with core exchange)		150.00
Labor on 4 Cylinder Starting Engines			
	Grind Crankshaft		72.00
	Hone Sleeve		22.00

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Part #	Description	Replaces OEM Part #	List Price
John Deere R Starting Engine Parts			
	Main Bearing (.020 undersize)		25.66
	Rod Bearing (.020 undersize)		44.13
	Set of 2 Pistons with Rings (.020 & .040 oversize)		170.00
	Intake Valve	R785R	15.00
	Exhaust Valve	R786R	20.00
	Valve Guide	R691R	7.00

Wanted

11 HP headless Witte stationary engine
Any headless Witte stationary engine with a Witte Iron Works tag
Any side shaft Witte stationary engines