



www.midwestmachineryco.com

Invoice To Account No: 100541

SERVICE INVOICE

Page:

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STUEDEMANN BROS	Invoice Number:	9222707
14242 COUNTY RD 9	Invoice Date	06/28/2022
PLATO MN 55370	Location:	01
	Work Order Number:	774049
	Payment Type:	Finance

Meter Serial Number: EQ Id: Fleet No: Make/Model: 1010W 4650T 007555 JOHN DEERE 4650 8785

Gen- Retail

COMPLAINT:

steering issues / Greg 952-457-7790

Phone Number: (320)238-2471

CAUSE:

#### CORRECTION:

Wednesday, June 8, 2022 10:51 AM -

Checked the operation of the steering. The steering works normally when the steering wheel is moved at a normal speed. The steering starts to lag if quick steering is needed. Also lose hydraulic functions when there is high demand from the steering system. The transmission also shifts harshly. May be a problem with the transmission oil pump supply to the main hydraulic pump. Parked the tractor in a work bay.

Checked the transmission oil level. Added 20 quarts of oil. Connected a gauge to the trans system pressure test port. Checked the system pressure at 2000 rpms. It is in spec at 180 psi. Moved the gauge to the steering priority test port. Checked the priority valve pressure. It is 1600 psi. Checked the hydraulic system pressure. It is low at 2150 psi. Adjusted the standby pressure to 2300 psi. Checked the operation of the steering. The steering response is much better now.

Had seen that the AC compressor drive belt was flopping around. Tightened the drive belt.

Noticed that the lock nuts for the right side steering assist cylinder retaining bolts were missing. The lower end of the piston rod bolt is twisted off inside of the knuckle housing. Parked the tractor back in the work bay. Cleaned off the dirt from around the outer pin. Found that the pin bore in the knuckle housing is bucked out.

Wednesday, June 8, 2022 2:06 PM -

Looked up the R83524 (\$3,475) knuckle housing. It is no longer available. Removed the pin from the knuckle housing. The retaining bolt broke off through the threaded section of the bolt. Installed a special socket on the bottom part of the bolt. Extracted the broken bolt from the bottom of the knuckle housing. Set the new pin in place. The pin fit loosely in the bore. The knuckle housing will need to be removed and bushings fabricated.

Raised and supported the front of the tractor. Removed the right front wheel and fender. Drained the oil from the mfwd center housing. Removed the right outer mfwd hub as an assembly.

Wednesday, June 8, 2022 4:25 PM -

Removed the kingpin bearing retainers. Removed the kingpins. Removed the knuckle housing. Cleaned all of the parts to be reused.

Thursday, June 9, 2022 8:02 AM -

Looked up and ordered a new drive shaft seal for the right side of the center housing. Cleaned up the damaged area of the knuckle housing. Had a machinist look at the housing. He thought the best repair would be to weld the worn areas of the bore and machine a new hole. He took the housing along. Inspected the left side knuckle housing. It looks ok.

Friday, June 10, 2022 1:41 PM -

Removed the baler control box and harness from the tractor.

Monday, June 20, 2022 10:36 AM -

Removed and replaced the driveshaft oil seal located at the right side of the MFWD center housing. Installed the knuckle housing and torqued the kingpin bearing retainers. Connected the steering assist cylinder to the knuckle housing. Greased all of the zerks on the front axle. Installed the wheel hub and spindle assembly. Torqued the mounting hardware. Cleaned the debris out of the fender mounting holes. Installed the right front fender. Checked the oil in the right MFWD hub. It was starting to turn dark in color. Drained the oil.

## Midwest Machinery Co. 4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571





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Invoice To Account No: 100541

SERVICE INVOICE

STUEDEMANN BROS 14242 COUNTY RD 9 **PLATO MN 55370** 

Invoice Number: Invoice Date 9222707

Location:

06/28/2022 01

Work Order Number: Payment Type: 774049

Finance

Phone Number: (320)238-2471

Page:

2 of 2

Make/Model:

Meter 8785

Serial Number: 4650T 007555 EQ Id: 1010W Fleet No:

JOHN DEERE 4650

Monday, June 20, 2022 1:58 PM -

Drained the oil from the left side mfwd hub. Filled both hubs with gear oil. Filled the center housing with transmission oil. Installed the right front wheel and torqued the hardware. Drove the tractor outside and bled the air from the steering circuit. Swept the work bay. T115

<u>PartNumber</u>	<u>Description</u>	Quantity	<u>List Price</u>	Extended Price	Taxed Ind
AL165307	SEAL	1.00	41.60	\$41.60	N
AR69445	HYGARD SHOP OIL (QT)	30.00	4.60	\$138.00	N
TY26817	GL5 80W90 SHOP BULK (QT)	7.00	7.50	\$52.50	N
ZEP	ZEP BRAKE CLEANER	4.00	2.10	\$8.40	N
OL&M Charges:					

Description

Value \$490.00

weld and machine steering mech

#### Miscellaneous Charges:

**Shop Supplies** 

\$27.09

**Environmental Fee** 

\$2.40

_abor: \$1,806.00	Parts: \$240.50	OL&M: \$490.00	Misc: \$29.49	Sub-Total: \$2	2,565.99
		Finance Information		Labor:	\$1,806.00
Customer PO No:		Type: Farm Plan	Auth No: 877730	Parts:	\$240.50
Tax Exempt No:	21ST3-LOCM	Merchant No: 440002	28	OL&M:	\$490.00
Advisor:	S157	Card No: XXXXXXX	xxxxxx0961	Misc:	\$29.49
		Bill Code: 100	- SHOP WORK	Sales Tax:	\$0.00
		Credit Plan: 249	- PURCHASE	Total:	\$2,565.99

#### **TERMS AND CONDITIONS**

This purchase(s) is subject to the terms of the Multi-Use Account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Received by:	 Date:





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Invoice To A	Account No:	100541
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#### SERVICE INVOICE

STUEDEMANN BROS 14242 COUNTY RD 9 PLATO MN 55370 Invoice Number:
Invoice Date
Location:
Work Order Number:

Payment Type:

05/31/2022 01 769975 Finance

9177176

Phone Number: (320)238-2471

Page: 1 of 1

Make/Model:	Meter	Serial Number:	EQ ld:	Fleet No:
JOHN DEERE 4650	8778	4650T 007555	1010W	

Gen- Retail

COMPLAINT:

alternator issues

CAUSE:

CORRECTION:

installed ventilation equipment started and noticed play in alternator, tested output found low removed belts and found bearing shot in shaft. removed alternator, and replaced with correct one tensioned belts and installed harnesses. tested, charging at 15 V at alternator. ran for 10 min to test, belts held tension, still charged.

PartNumber	Description	Quantity	LIST Price	Extended Price	Taxed Ind	
SE501386	ALTERNATOR	1.00	335.24	\$314.22	N	
SE501386-CR	CORE for:Alternator Reman	-1.00	50.00	-\$50.00	N	

#### Miscellaneous Charges:

Shop Supplies \$2.94
Environmental Fee \$2.64

abor: \$196.00	Parts: \$264.22	OL&M: \$0.00	Misc: \$5.58	Sub-Total: \$40	65.80
		Finance Informatio	n	_ Labor:	\$196.00
Customer PO No:		Type: Farm Plan	Auth No: 99649	Parts:	\$264.22
Tax Exempt No:	21ST3-LOCM	Merchant No: 440	00228	OL&M:	\$0.00
Advisor:	S157	Card No: XXX	xxxxxxxxx0961	Misc:	\$5.58
		Bill Code: 704		Sales Tax:	\$0.00
		Credit Plan: 249	- PURCHASE	Total:	\$465.80

#### **TERMS AND CONDITIONS**

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Received by:	Date:
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Invoice To Account No: 100541

#### SERVICE INVOICE

STUEDEMANN BROS TIM STUEDEMANN 13859 COUNTY RD 9 PLATO MN 55370

 Invoice Number:
 2195987

 Invoice Date
 07/17/2020

 Location:
 01

 Work Order Number:
 368990

 Payment Type:
 Account

Phone Number: 320-238-2471

Page: 1 of 3

Make/Model:	Meter	Serial Number:	EQ ld:	Fleet No:
JOHN DEERE 4650	8109	4650T 007555	101 <b>0W</b>	

#### Gen- Retail

#### COMPLAINT:

repair oil leak on the left side of the engine / Tim cell - 952-200-8796

check for leak on the right side of the engine

check for oil leak on top of the MFWD clutch housing

check for possible wear in the MFWD axle causing wear on the front tires

remove the front tires and call Tim Stuedemann to take in for replacement

#### CAUSE:

#### CORRECTION:

Tuesday, June 16, 2020 5:03 PM - T168 Brought tractor into wash bay and steamed off oil mess from engine area and MFWD clutch housing.

Wednesday, June 17, 2020 10:47 AM - T168 Ran unit on dyno to check for leaks. Found oil leaking from head gasket joint on LH side as well as rocker arm cover. Also found exhaust manifold leaking. Inspected oil leak at MFWD area and found oil dripping from a bolt and possibly from PTO clutch shaft. Removed bolt and applied RTV sealant to it. Re-installed bolt and torqued. Shaft o-ring would require splitting tractor. Inspected front end. Found RH tie rod was not torqued completely. Removed cotter pin and torqued nut. Will measure toe when new tires are installed. Removed front tires and set aside for customer. Talked with Tim and got ok to repair head gasket.

Thursday, June 18, 2020 3:22 PM - T168 Removed engine side panels. Removed air cleaner stack. Removed hood. Removed air cleaner. Disconnected batteries and removed alternator. Removed turbo and exhaust pipe. Drained coolant. Removed intake manifold and intercooler. Removed exhaust manifold.

Tuesday, June 23, 2020 3:52 PM - T168 Removed rocker arm cover and rocker arm. Removed push rods. Removed head bolts and removed head. Sent head to machine shop. Sent exhaust manifold to machine shop. Machine shop decked head and replaced valves and springs.

Wednesday July 1, 2020 11:15 AM - T168 Cleaned and inspected other parts for reassembly. Cleaned block for new gasket. Checked injectors and found them all good. Prepared for reassembly once head arrives.

Tuesday, July 7, 2020 8:40 AM - T168 Installed new head gasket and new head bolts. Torqued head bolts to spec. Installed push rods and rocker arm. Set valves to spec. Installed rocker arm cover with new gasket.

Wednesday, July 8, 2020 3:17 PM - T168 Finished assembly of engine. Changed engine oil. Flushed cooling system. Installed front tires. Test ran unit. Ran to wash bay and steamed off fuel mess on engine. Found toe was in spec.

Thursday, July 9, 2020 9:17 AM - T168 Filled cooling system with new coolant. Installed hood. Installed side panels. Let unit run outside to get warm and check for any leaks. Found small oil leak at engine oil cooler mounting bolts.

Monday, July 13, 2020 11:23 AM - T168 Drained coolant, removed engine oil cooler from LH side of engine. Removed old gaskets and cleaned gasket surfaces. Reassembled cooler with new gaskets and o-rings as needed. Installed on engine. Re-filled cooling system. Ran unit again and found leak has been taken care of. Cleaned work area and put tools away.

Phone: (320) 864-5571





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Invoice To Account No: 100541

**SERVICE INVOICE** 

STUEDEMANN BROS TIM STUEDEMANN 13859 COUNTY RD 9

Invoice Number: Invoice Date Location:

07/17/2020 01 368990

2195987

**PLATO MN 55370** 

Work Order Number: Payment Type:

Page:

Account

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Phone Number: 320-238-2471

Serial Number: EQ Id: 4650T 007555 1010W Fleet No:

Make/Model: Meter JOHN DEERE 4650 8109

Wednesday, July 15, 2020 9:51 AM - T168 Verified fluid levels and test ran tractor on dyno. Dynoed at 176 hp @1000 RPM. Noticed a small amount of slobber on cylinder 2/3 of manifold while tractor was idling. Slobber stopped with tractor idled up under load.

PartNumber	Description	Quantity	<u>List Price</u>	Extended Price	Taxed Ind
AR48675	THERMOSTAT	3.00	14.21	\$42.63	N
DZ101880	OIL FILTER	1.00	18.32	\$18.32	N
R102882	SHIELD	6.00	5.58	\$33.48	N
R105346	GASKET	1.00	4.21	\$4.21	N
R130573	GASKET	3.00	9.21	\$27.63	N
R26125	SPRING	12.00	7.40	\$88.80	N
R31378	O-RING	1.00	4.52	\$4.52	N
R43595	GASKET	1.00	5.29	\$5.29	N
R43751	GASKET	1.00	6.78	\$6.78	N
R47153	O-RING	5.00	2.20	\$11.00	N
R48723	WING NUT	1.00	5.35	\$5.35	N
R49866	GASKET	1.00	11.90	\$11.90	N
R50357	EXHAUST VA	6.00	35.31	\$211.86	N
R50358	INTAKE VAL	6.00	21.83	\$130.98	N
R520546	GASKET	1.00	6.37	\$6.37	N
R520549	GASKET	1.00	9.04	\$9.04	N
R52811	O-RING	2.00	2.31	\$4.62	N
R530687	Gasket	1.00	3.44	\$3.44	N
R64840	WASHER	6.00	1.44	\$8.64	N
R72328	O-RING	1.00	1.44	\$1.44	N
R88042	SCREW	6.00	9.67	\$58.02	N
R88043	SCREW	5.00	7.40	\$37.00	N
R88044	SCREW	8.00	7.93	\$63.44	N
R88045	SCREW	7.00	8.94	\$62.58	N
R88397	GASKET	2.00	6.83	\$13.66	N
R97346	GASKET	2.00	3.02	\$6.04	N
R97347	GASKET	2.00	15.63	\$31.26	N
RE47336	ENGINE CYL	1.00	88.68	\$88.68	N
RE62776	GASKET	2.00	4.78	\$9.56	N
RE62777	GASKET	2.00	8.54	\$17.08	N
T20077	RETAINER	25.00	1.09	\$27.25	N
TY26577	PREMIX ANTIFREEZE	30.00	3.34	\$100.20	N
TY26678	15W40+50 II	20.00	3.60	\$72.00	N
ZEP	ZEP BRAKE CLEANER	20.00	2.10	\$42.00	_ N
<u>Miscellaneous</u>	<u>Description</u>	Quantity		Extended Price	Taxed Ind
P3750	FREIGHT	1.00	35.00	\$35.00	N
Comment: M	ACHINE DOWN R102882,T20077,R50357,	N3U330			





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Invoice To Account No: 100541

**SERVICE INVOICE** 

Fleet No:

STUEDEMANN BROS TIM STUEDEMANN 13859 COUNTY RD 9 DI ATO MN 55370

Make/Model:

2195987 Invoice Number: Invoice Date 07/17/2020 Location: Work Order Number:

Payment Type:

EQ Id:

368990 Account

01

Page:

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PLATO WIN 553	
Phone Number:	320-238-2471

JOHN DEERE 4650		8109	4650T 007555	1010W			
S3773	FILTER DISPOSAL - 2.50			1.00	2.50	\$2.50	N
S3774	ANTI FREEZE DISPOSAL			7.50	1.50	\$11.25	N
S3790	PARTS DISCOUNT			1.00	0.00	-\$63.25	N
S3952	DYNO CHARGE 50			1.00	50.00	\$50.00	N
S3970	LABOR DISCOUNT			1.00	0.00	-\$208.62	N
OL&M Charges: Description							Value
valve job - resurface he	ead - exhaut manifold						\$687.88

Serial Number:

Meter

### Miscellaneous Charges:

**Shop Supplies** 

\$62.59

**Environmental Fee** 

\$10.92

abor: \$4,172.40	Parts: \$1,265.07	OL&M: \$687.88	Misc:	-\$99.61	Sub-Total: \$6	,025.74
					Labor:	\$4,172.40
Customer PO No:					Parts:	\$1,265.07
Tax Exempt No:	13ST3-LOCM				OL&M:	\$687.88
Advisor:	S120				Misc:	-\$99.61
	0120				Sales Tax:	\$0.00
					Total:	\$6,025.74

**TERMS AND CONDITIONS** 

Received by: Date of the control of	ate:
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4650T 007555

Invoice To Account No: 100541

SERVICE INVOICE

STUEDEMANN BROS **TIM STUEDEMANN** 13859 COUNTY RD 9 **PLATO MN 55370** 

Invoice Number: Invoice Date Location:

1750355 08/31/2018 285635

Work Order Number: Payment Type: **Finance** 

Page:

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Phone Number: 320-238-2471 Make/Model:

Fleet No: Meter Serial Number: EQ Id: 1010W 7170

Gen- Retail

**JOHN DEERE 4650** 

COMPLAINT:

ac line leak

#### CORRECTION:

Connected gauges to compressor and found there was no pressure. Removed GPS receiver bracket on roof and lifted the roof. Removed panel to gain access to AC components. Pressurized system and sprayed everything with soapy water. Found line to expansion valve was leaking. Installed new o-ring on line and connected line. Now no air leaked. Added dye to system. Charged system. Ran tractor with AC on and checked for leaks just to verify there were no other leaks. Installed panel under roof. Lowered roof and installed GPS receiver bracket. Installed side shields. Cleaned stall. T15

<u>PartNumber</u>	<u>Description</u>	Quantity	List Price	Extended Price	Taxed Ind
P51212	O-RING	1.00	0.77	\$0.77	N
TY15951	R134A FREON	64.00	1.40	\$89.60	N
TY27010	Dye Solution	1.00	6.07	\$6.07	N
<u>Miscellaneous</u>	Description	Quantity	List Price	Extended Price	Taxed Ind
S3790	PARTS DISCOUNT	1.00	0.00	-\$6.75	N
S3970	LABOR DISCOUNT	1.00	0.00	-\$35.72	N

### Miscellaneous Charges:

Shop Supplies **Environmental Fee**  \$7.66

\$1.00

_abor: \$510.40	Parts: \$96.44	OL&M: \$0	.00	Misc: -\$33.81	Sub-Total:	\$573.03
		Finance Inform	nation		Labor:	\$510.40
Customer PO No:		Type: Farm	Plan	Auth No: 718871	Parts:	\$96.44
Tax Exempt No:	13ST3-LOCM	Merchant No:	440002	28	OL&M:	\$0.00
Advisor:	S157	Card No:	XXXXXXX	xxxxx0961	Misc:	-\$33.81
		Bill Code:	704	<ul> <li>JD TRACTOR PARTS/SERVICE</li> </ul>	Sales Tax:	\$0.00
		Credit Plan:	249	- PURCHASE	Total:	\$573.03

#### **TERMS AND CONDITIONS**

This purchase(s) is subject to the terms of the Multi-Use Account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Received by:		Date:
100011000011	***************************************	





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SERVICE INVOICE Invoice To Account No: 100541 Deliver To: 1490413 STUEDEMANN BROS Invoice Number: 13859 COUNTY RD 9 Invoice Date 06/26/2017 **PLATO MN 55370** Location: 250887 Work Order Number: Payment Type: Finance Bus Phone: 320-238-2471 Prv Phone: 952-200-8796 Page: 1 of 3 Make/Model: EQ Id: Fleet No: Meter Serial Number:

4650T 007555

1010W

6724

JOHN DEERE 4650 Service Reminders:

Gen- Retail

COMPLAINT:

01 General Repairs - REPAIR A/C

CAUSE:

#### CORRECTION:

Friday, June 09, 2017 11:00 AM -

Connected the reclaimer to the system. Reclaimed less than 1 oz. of R134a. Started to charge the system. Heard refrigerant hissing out of the return line in the cab cornerpost. Pulled the refrigerant back out of the system. Checked the cab filters. Replaced the recirculating filter. Vacuumed off the face of the evaporator. The customer will bring the tractor back at a later date. Ordered needed parts.

Tuesday, June 13, 2017 4:22 PM -

Brought the tractor into the shop and parked it in the work bay. Removed the GPS reciever bracket. Raised the outer cab roof. Started to remove the left rear cornerpost cover.

Wednesday, June 14, 2017 7:42 AM -

Removed the left side window weatherstrip. Removed the latch retaining pins for the left side window and rear window. Propped the windows away from the cab. Used an impact driver to loosen and remove the cornerpost cover retaining screws. Pried the cover off. Cleaned dirt away from around the cornerpost lines. Disconnected and removed the upper return line. Removed the shipping label and adhesive from the new upper line. Installed the insulation on the line. Set the line in place. Removed the lower return line. Removed the service fitting from the old line and installed it on the new line. Installed the insulation on the new line. Installed the new lower line. Connected the upper and lower line together. Connected th upper line to the cab roof line. Connected the lower line to the service disconnect. Clamped the line in place.

Wednesday, June 14, 2017 12:04 PM -

Removed and replaced the reciever drier. Connected the reclaimer to the system. Evacuated the system. Could not pull a full vacuum. When the vacuum pump was shut off, the vacuum dropped back to 0 in a short amount of time. Disconnected the reclaimer. Pressurized the system to 150 PSI of shop air. Sprayed soapy water on the line and connections. Did not see any leaks. Relieved the air pressure. Reconnected the reclaimer. Started to pull a vacuum again. Could not pull below 20 inches. Charged the system with 1 pound of R134a. Did not detect any leaks. Recovered .9 pounds of R134a.

Installed the cornerpost cover.

Wednesday, June 14, 2017 2:00 PM -

Removed the inner cab roof cover. Pressurized the system with 150 psi of shop air. Vacuumed up the dirt from around the inner roof and the evaporator. Rechecked the air pressure in the system. It was holding at 150 psi. Lowered the pressure to 40 psi. It held the pressure. Disconnected the ac lines from the compressor. Capped off the fittings on the compressor. Pulled a vacuum on the compressor by itself. Could not pull more than 20 in. Capped off the ends of the ac lines. Pulled a vacuum on the rest of the ac system. Could pull a deep vacuum. The leak is coming from the compressor. Most likely the shaft seal. Looked up a new compressor and expansion valve.

Thursday, June 15, 2017 2:42 PM - removed the old compressor.

4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571





OFFINIAL BUYOUSE

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Invoice To Account No: 100541	Deliver To:		<b>SE</b>	RVICE INVOICE
STUEDEMANN BROS			Invoice Number:	1490413
13859 COUNTY RD 9			Invoice Date	06/26/2017
PLATO MN 55370			Location:	1
			Work Order Number:	250887
			Payment Type:	Finance
Bus Phone: 320-238-2471	Prv Phone: 952	-200-8796	Page:	2 of 3
Make/Model:	Mete	er Serial Number:	EQ ld:	Fleet No:
JOHN DEERE 4650	6724	4650T 007555	1010W	

Service Reminders:

#### Friday, June 16, 2017 7:48 AM -

Transfered the manifolds and mounting brackets from the old compressor to the new one. Returned the old compressor for core credit. Removed the insulation tape from the expansion valve. Disconnected the x-valve inlet and the sensing lines. Heated the gland nut on the evaporator securing the x-valve. Got the nut to move a partial turn. Soaked the nut with oil. Worked the nut back and forth till it worked freely. Removed the expansion valve. The threads on the old x-valve had stripped over.

#### Friday, June 16, 2017 10:24 AM -

Cleaned the threads in the evaporator gland nut. Removed the lines from the reciever drier. Installed fittings for flushing the system. Did a preliminary flush with ZEP followed by the primary and secondary flush. Removed the flush fittings. Reconnected the lines to the reciever drier. Added dye to the system. Installed the compressor. Applied 12 volts to the compressor clutch. Rotated the compressor by hand to distribute the oil. Installed the new expansion valve. Connected the reclaimer to the system. Evacuated the system. Looked up new screws for the stripped over inner roof retaining screws.

#### Friday, June 16, 2017 1:46 PM -

The system passed the vacuum leak test. Charged the system with R134a. Wrapped the expansion valve with insulating tape. Started the engine and engaged the ac system. Installed the inner cab roof. Installed the outer cab roof. Checked the operation of the system. All ok. The pressures were ok. Disconnected the reclaimer.

#### Monday, June 19, 2017 8:45 AM -

Installed the left rear cornerpost cover. Glued the left rear cornerpost upholstery in place. Glued the left side window weatherstrip in place. Installed the pins and clips in the window latch plates. Drove the tractor outside and let it run. Checked the operation of the ac system. It is working normally. Tightened the compressor drive belt. T115

<u>PartNumber</u>	Description	Quantity	Net Price	Extended Price	Taxed Ind
AR58278	LINE	1.00	73.84	\$73.84	N
AR65755	LINE	1.00	62.00	\$62.00	N
B15646	O-RING	1.00	1.07	\$1.07	N
R10093	O-RING	3.00	1.13	\$3.39	N
R113050	O-RING	1.00	1.40	\$1.40	N
R33259	O-RING	3.00	1.54	\$4.62	N
R50641	SCREW	2.00	0.86	\$1.72	N
R57636	WASHER	1.00	1.16	\$1.16	N
R65450	AIR FILTER	1.00	9.17	\$9.17	N
R77896	INSULATOR	2.00	21.53	\$43.06	N
RE206757	CONTROL VA	1.00	45.51	<b>\$45.51</b>	N
RE576834	Receiver-Dryer	1.00	45.51	\$45.51	N
SE503051	Compressor Reman	1.00	471.52	\$471.52	N
SE503051-CR	CORE for:Compressor Reman	-1.00	30.00	-\$30.00	N
TY15709IN	A/C LINE TAP	48.00	0.06	\$2.88	N
TY15951	R134A FREON	64.00	1.40	\$89.60	N
TY25600	COOLING SY	1.00	44.13	<b>\$4</b> 4.13	N

## Midwest Machinery Co. 4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571





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Invoice To Account No:	100541	Deliver To:			SERVICE INVOICE			
STUEDEMANN BR	os				Invoice N	umber:	149	00413
13859 COUNTY RD 9					Invoice Date		06/26/2017	
PLATO MN 55370					Lo	cation:		1
					Work Order N			250887
					Paymer	t Type:	F	inance
Bus Phone: 320-2	38-2471	Prv Phon	e: 952-20	0-8796		Page:		3 of 3
Make/Model:			Meter	Serial Number:	EQ ld:		Fleet No:	
JOHN DEERE 4650			6724	4650T 007555	1010W			
Service Reminders:								
TY27010	Dye Solution				1.00	6.07	\$6.07	N
TY27355	AIR CONDIT				1.00	16.99	\$16.99	N
ZEP	ZEP BRAKE CLEAN	IER			4.00	2.10	\$8.40	١
<u>Miscellaneous</u>	<u>Description</u>				Quantity	Net Price	Extended Price	Taxed Inc
S3773	FILTER DISPOSAL	- 2.50			1.00	2.50	\$2.50	N
S3790	PARTS DISCOUNT				1.00	-45.10	-\$45.10	N
S3953	FREON RECOVERY	Y			1.00	25.00	\$25.00	N
S3970	LABOR DISCOUNT				1.00	-82.42	-\$82.42	٨
Miscellaneous Cha	rges:							
Shop Supplies								\$24.73
Environmental Fee								\$8.02
abor: \$1,648.50	Parts: \$902.04	OL&M:	\$0.00	Misc:	-\$67.27	Sub-Total:	\$2,483.27	

		Finance Informa	tion			Labor:	\$1,648.50
Customer PO No:		Type: Farm Pla		Auth I	No: 509186	Parts:	\$902.04
Tax Exempt No:	13ST3-LOCM	Merchant No: 4	44000228			OL&M:	\$0.00
Advisor:	CHRIS OLESON	11	XXXXXXXXXXXX			Misc:	-\$67.27
<del></del>		<b>一</b>   ·		JD TRACTOR I	PARTS/SERVICE	Sales Tax:	\$0.00
		Cledit Plan:	11384 - <sub>1</sub>	NP/NI Waiver u	intil Oct 1, 2017	Total:	\$2,483.27

#### **TERMS AND CONDITIONS**

This purchase(s) is subject to the terms of the Multi-Use Account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Received by:	Date:
--------------	-------

4561 Hwy 212

Glencoe, MN 55336

Phone: (320) 864-5571 (800) 558-3759





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Invoice To Account No: 100541

Deliver To:

SERVICE INVOICE

STUEDEMANN BROS 13859 CO RD 9 **PLATO MN 55370** 

1414490 Invoice Number: 02/27/2017 Invoice Date Location: Work Order Number: 239295 Payment Type: Finance

Bus Phone: 320-238-2471

Prv Phone: 952-200-8796

Page:

1 of 2

Make/Model:

Meter Serial Number:

EQ Id:

Fleet No:

6549

**JOHN DEERE 4650** 

4650T 007555

1010W

Service Reminders:

Gen- Retail

COMPLAINT:

repair the lights / check for engine noise near the turbocharger when under load / the engine will not crank over when hot

#### CAUSE:

#### CORRECTION:

Wednesday, February 15, 2017 9:17 AM -

162

Replaced the damaged intake hose at the turbocharger inlet.

Removed side shields and hood. Removed inlet on turbo and inspected impeller, impeller wasn't touching housing. Topped off cooling system and ran machine under load on dyno. Noise sounded like it was coming from turbo so removed turbo and inspected, didn't see anything obvious so removed valve cover and inspected valves. Adjusted valves, reinstalled valve cover with new pasket and removed injectors and performed compression test. They all tested within spec.

#1 - 370 psi

#2 - 390 psi

#3 - 380 psi

#4 - 385 psi

#5 - 380 psi

#6 - 380 psi Checked injectors and they all had crack off pressure between 3600-3800 psi with good spray pattern. Reinstalled injectors and bleed fuel system. Installed new turbo and ran machine on dyno again. Found previous noise was gone but there was still a little flutter under heavy load. Customer was present when on dyno and wanted to use machine so removed from dyno and brought back in shop. Inspected exhaust manifold and found bolts on #6 cylinder were a little loose. After tightening exhaust manifold flutter noise was gone. Checked light operation, Found front fender lights not working and other lights would dim when in field position. Front hood lights had water in the housing so replaced. Found wires were hooked up wrong on front fender lights causing a short to ground when light switch in field position, hooked up lights properly and checked operation. Found if pushed on light switch all the lights would dim. Replaced light switch and all lights were working properly. Checked starter operation, couldn't get starter to act up while in shop but possible bad starter from customers explanation. T125

<u>PartNumber</u>	<u>Description</u>	Quantity	Net Price	Extended Price	Taxed Ind
19H2127	CAP SCREW	1.00	0.50	\$0.50	N
24H1136	WASHER	1.00	0.33	\$0.33	N
24H1305	WASHER	4.00	0.38	\$1.52	N
AR48724	LIGHT SWIT	1.00	28.75	\$28.75	N
R105346	GASKET	1.00	3.51	\$3.51	N
R161288	LAMP	3.00	37.96	\$113.88	N
R43751	GASKET	1.00	5.91	\$5.91	N
R49866	GASKET	1.00	10.36	\$10.36	N

4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571

(800) 558-3759





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Invoice To Account I	No: 100541	Deliver To:				SER'	VICE INV	OICE
STUEDEMANN 13859 CO RD 9					Invoice No	umber: ce Date		14490
PLATO MN 553					1 1	cation:	02/2	7/2017 1
. 27 (10 11111 000	10				Work Order N		:	239295
					Paymen	t Type:	F	inance
Bus Phone: 32	0-238-2471	Prv Phone: 952	2-200-879	6		Page:		2 of 2
Make/Model:		Met	er Seri	al Number:	EQ ld:		Fleet No:	
JOHN DEERE 4650	)	654	9 4650	OT 007555	1010W			
Service Reminders:								
R54500	SCREW				4.00	1.51	\$6.04	N
R77551	O-RING				6.00	0.57	\$3.42	N
R97348	GASKET				1.00	0.79	\$0.79	N
RE12466	Suction Hose				1.00	50.46	\$50.46	N
SE500255	Turbocharger Reman				1.00	1,157.16	\$1,157.16	N
SE500255-CR	CORE for:Turbocharge	er Reman			-1.00	100.00	-\$100.00	N
TY22473	CLAMP				1.00	1.16	\$1.16	N
TY26577	PREMIX ANTIFREEZ	E			3.00	3.48	\$10.44	N
<u>Miscellaneous</u>	<u>Description</u>				Quantity	Net Price	Extended Price	Taxed Ind
S3759	ZEP BRAKE CLEANE	R PT			6.00	2.10	\$12.60	N.
S3952	DYNO CHARGE - 50.	00			1.00	50.00	\$50.00	N
Miscellaneous C	harges:							***
Shop Supplies								\$44.42
Environmental F	ee							\$13.57
_abor: \$2,961.00	Parts: \$1,294.23	OL&M: \$0.00		Misc:	\$120.59	Sub-Total:	\$4,375.82	
	•	Finance Informat	ion			Labo	or: \$2,96	51.00
Customer PO No:		Type: Farm Pla	ın	Auth	No: 675415	Part		
Tax Exempt No:	13ST3-LOCM	Merchant No: 4	4000228			OL&I	<b>VI</b> :	0.00
Advisor:	KEITH ZAJICEK	II	xxxxxxxxx			Mis	c: \$12	20.59
		<b>-  .</b>			R PARTS/SERVICE	Sales Ta	<b>x</b> :	0.00
		Oleuit Fiall.			TIL JULY 1, 2017	Tota	al: \$4,37	75.82

#### **TERMS AND CONDITIONS**

This purchase(s) is subject to the terms of the Multi-Use Account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Received by:	Date:
--------------	-------

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Glencoe, MN 55336 Phone: (320) 864-5571

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Invoice To Account No: 100541

STUEDEMANN BROS 13859 CO RD 9

**PLATO MN 55370** 

Phone Number: 320-238-2471

SERVICE INVOICE 1110076 Invoice Number:

Invoice Date:

7/29/2015 Location:

Work Order Number: Payment Type:

189848 Finance

Page:

1 of 1

Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4650	5869	4650T 007555	1010W	

#### Gen- Retail

COMPLAINT:

move the duals out to the end of the axle and move the rear main wheels 6" from the duals

#### CORRECTION:

Moved wheels out, removed duals and hub. Hubs would not come loose, were rusted. Hammer on axel to get loose and spray oil on, hammer till it comes loose. Same on the rest of the hubs. Moved inner wheels out, torque bolts and put dual hub on. Could not get on, lots of rust. Hammer to get dual hubs on, set hubs to end of axel, torque duals. Drive tractor around, then retorque. Bolts did not move.

Part Number TY26353	<u>Descript</u> PENET	ion RATING OIL			Quantity 1.00	<u>List Price</u> 4.49	Net Price Ex 4.49	tended Price \$4.49	Taxed ind N
Labor: \$812.25	Parts:	\$4.49	OL&M:	\$0.00	Misc:	\$0.00	Sub-Tota	l: \$816.74	
Miscellaneous Cha Environmental Fee Shop Supplies	•								\$1.00 \$12.18
		Finar	nce Informat	ion		···	Labo	r:	\$812.25
Customer PO No:		Туре	: Multi-use	Acct US	Auth. No: 2	42216	Part	s:	\$4.49
Tax Exempt No:	13ST3-LOCM	Merc	hant No: 4	14000228			OL&	Л:	\$0.00
Advisor:	120	Card	No: xxx	>>>>>>>>			Mis	c:	\$13.18
		Bill C	Code:	- N/A			Sales Ta	x:	\$0.00
		Cred	lit Plan: 249	- PURC	HASE		Grand Tota	ıl:	\$829.92

#### **TERMS AND CONDITIONS**

Repayment Terms:

This purchase(s) is subject to the terms of the multi-use account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571

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Invoice To Account No: 100541

Phone Number: 320-238-2471

SERVICE INVOICE

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370 
 Invoice Number:
 1089964

 Invoice Date:
 6/30/2015

 Location:
 1

 Work Order Number:
 186940

 Payment Type:
 Finance

ayrıcını Type.

Page: 1 of 2

Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4650	5827	4650T 007555	1010W	

/SERVICECALL Retail

COMPLAINT:

SERVICE CALL -SERVICE MANAGERS/WRITERS MAKE SURE YOU CHANGE THE TYPE OF LABOR FROM SHOP TO FIELD AND ADD JOB SITE INFORMATION.

service call / the engine oil pressure warning came on with the engine running wide open, the oil pressure appears normal at low idle.

Tim's cell - 952-200-8796

#### CORRECTION:

SERVICE CALL

Looked up parts and drove out to the field. The engine oil level was ok. Installed a oil pressure gauge for testing purposes. Started the engine and checked oil pressure on both gauges. Both read normal pressures. Drove the tractor to warm up the engine and oil. The oil pressure was 35 psi at idle and 60 psi at full throttle. Checked the electrical connectors at the sensor and behind the instrument. They were ok. Replaced the engine oil pressure sensor to eliminate it as possible failure point.

As of 6/29/2015, have not heard of any problems.

Part Number RE208261	<u>Description</u> ENGINE OIL	<u>Quantity</u> 1.00	List Price 77.26	Net Price 77.26	Extended Price \$77.26	<u>Taxed Ind</u> N
RE60578	WIRING HAR	1.00	109.22	109.22	\$109.22	N
Miscellaneous	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind

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Glencoe, MN 55336 Phone: (320) 864-5571

(800) 558-3759





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SERVICE INVOICE Invoice To Account No: 100541 1089964 Invoice Number: STUEDEMANN BROS 6/30/2015 Invoice Date: 13859 CO RD 9 Location: **PLATO MN 55370** Work Order Number: 186940 Finance Payment Type: Phone Number: 320-238-2471 2 of 2 Page: Fleet No: Eq ID: Make/Model: Meter. Serial Number: 1010W 5827 4650T 007555 JOHN DEERE 4650 /SERVICECALL Retail 100.00 100.00 \$100.00 Ν 1.00 SERVICE CALL S3921 Sub-Total: \$550.48 Labor: \$264.00 Parts: \$186.48 OL&M: \$0.00 Misc: \$100.00 Miscellaneous Charges: \$2.86 Environmental Fee \$3.96 **Shop Supplies** Finance Information \$264.00 Labor: Parts: \$186.48 Type: Multi-use Acct US Auth. No: 332449 **Customer PO No:** OL&M: \$0.00 Merchant No: 44000228 13ST3-LOCM Tax Exempt No: \$106.82 Misc: Advisor: 120 Card No: \$0.00 Sales Tax: Bill Code: - N/A - PURCHASE \$557.30 Credit Plan: 249 Grand Total:

#### **TERMS AND CONDITIONS**

Repayment Terms:

This purchase(s) is subject to the terms of the multi-use account, a service of John Deere Financial, f.s.b. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Received by:	Date:
Received by:	Date:

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571 (800) 558-3759





Invoice To: 100541

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370

Phone Number: 320-238-2471

## **SERVICE INVOICE**

Invoice Number:	613685
Invoice Date:	10/30/2012
Branch:	1
Payment Type:	Account
Repair Order Number:	101386
Page:	1 of 2
Make/Model:	JOHN DEERE 4650

Make/Model:	JOHN DEERE 4650
Meter Reading:	4909
Serial Number:	4650T 007555
Equipment Number:	1010W

#### Gen- Retail

the auto trac does not work, check for shorted can harness / repair oil leak from the left mfwd axle seal

\$1,269.96

Disconnected ripper from tractor. Tested autotrack system and components. Found can bus voltages were too high at 6 volts, (should be 2.5 volts). Found bad active terminator/iso connector. Replaced ISO connector on the back of the tractor. Also found can bus high wire partially pulled out of terminal on tractor side of position receiver connector. Crimped on new terminal and reinserted into connector body. Rerouted Greenstar cab harness to rear of cab behind the seat after inspecting harness during diagnosis. Oil leaking from left hand MFWD driveshaft seals. Disassembled left hand hub. Replaced seals and driveshaft bushings. Driveshaft was grooved where the seals rode. Replaced driveshaft. Assembled MFWD hub. Filled left hand hub and center housing with gear oil. Checked oil level in right and hub. It is okay. Drove tractor and checked for oil leaks. All okay. Checked operation of autotrack. All okay. Reconnected ripper to tractor.

Tech: Andy					
Environmental Fee					\$10.58
Shop Supplies					\$13.70
Part Number AL165307	<u>Description</u> SEAL	Quantity 2.00	<u>Unit Nett</u> 23.52	<u>Value</u> \$47.04	Taxed Ind N
H77698	TIE BAND	2.00	0.28	\$0.56	N
P3750	FREIGHT	2.00	16.85	\$33.70	N
R44302	TIE BAND	10.00	0.09	\$0.90	N
R78066	PIN CONTAC	1.00	0.90	\$0.90	N
R82201	BUSHING	2.00	23.34	\$46.68	N
R83484	SEAL	1.00	11.63	\$11.63	N
RE165523	ELEC. CONNECTOR TERMINAL	1.00	283.93	\$283.93	N
RE23145	SEAL	1.00	119.67	\$119.67	N
RE29011	Drive Shaft	1.00	1,504.99	\$1,504.99	N
S3759	ZEP BRAKE CLEANER PT	6.00	2.10	\$12.60	N

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571 (800) 558-3759





Invoice To: 100541

**SERVICE INVOICE** 

STUEDEMANN BROS Invoice Number: 613685 Invoice Date: 10/30/2012 13859 CO RD 9 Branch: **PLATO MN 55370** Payment Type: Account Repair Order Number: 101386 Phone Number: 320-238-2471 Page: 2 of 2 JOHN DEERE 4650 Make/Model: Meter Reading: 4909 Serial Number: 4650T 007555 1010W Equipment Number: Gen- Retail 11.00

TY26817

80W90 GEAR LUBE

4.84

\$53.24

Ν

Labor: \$1,269.96

Parts: \$2,069.54

Sublet: \$0.00

Misc: \$70.58

Total: \$3,410.08

Customer PO No.:

Tax Exempt No.:

09ST3-LOCM

Advisor:

120

\$1,269.96 Labor: \$2,069.54 Parts: \$0.00 Sublet: Misc: \$70.58 \$0.00 Sales Tax:

> Total: \$3,410.08

Signed: Date:

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571 (800) 558-3759

Phone Number: 320-238-2471





1 of 2

Invoice To: 100541

#### SERVICE INVOICE

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370

Invoice Number: 518950
Invoice Date: 4/11/2012
Branch: 1
Payment Type: Account

Repair Order Number: 84478

Make/Model: JOHN DEERE 4650
Meter Reading: 4694
Serial Number: 4650T 007555
Equipment Number: 1010W

Page:

Gen- Retail

check over tractor \$1,910.57

Check over tractor. Found front axle seals leaking, tail lights not workin, #1 SCV leaks down. Engine has a miss when warm. Removed injectors and tested. All okay. R & R valve cover, adjusted INT/EXH valves. Performed engine compression test. All cylinder were at 380 psi. Determined miss was because of injection pump. R & R pump, set timing to spec. Did not replace fuel filter as they were recently changed. Ran tractor on dyno. Had 184 hp at rated speed. Installed new engine air filter. Changed trans/hyd fluid and filters. Had to unhook and hookup 16 row planter to perform repairs. Adjusted engine idle speed on pump. Adjusted throttle linkage for proper operation. Changed seat accumulator. Tightened throttle friction disks. R & R front tires for tire replacement.

Environmental Fee			\$8.60
Shop Supplies			\$19.11
<u>Part Number</u> A75174	<u>Description</u> SPRING LOC	Quantity         Unit Nett         Value           1.00         2.65         \$2.65	
AR69445QT	HY-GARD 303	7.00 3.14 \$21.98	N
AR80652	FILTER ELE	1.00 55.65 \$55.65	N
AR94510	FILTER ELE	2.00 32.28 \$64.56	N
BC-15	16"X37" BAG	1.00 1.10 \$1.10	N
CORE1	CORE	0.00 0.00 \$0.00	N
DS19-400-230-042R	REMAN INJ PUMP	1.00 1,595.00 \$1,595.00	N
P3750	FREIGHT	1.00 28.45 \$28.45	N
PM00264	PIN FASTEN	1.00 0.79 \$0.79	N
R34733	SEALING WA	2.00 1.95 \$3.90	N
R48163	HANDLE	1.00 20.54 \$20.54	N
R49866	GASKET	1.00 10.25 \$10.25	N
R502011	GASKET	1.00 4.79 \$4.79	N
R64840	WASHER	6.00 1.03 \$6.18	N
R72654	SNAP RING	2.00 0.72 \$1.44	N

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571 (800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

Labor: \$1,910.57	Parts: \$1,924.37	Sublet: \$0.00	Misc: (\$175.93)	Total:	\$3,659.01	
TY6391QT	15/40+50		21.00	3.51	\$73.71	٨
TY6341	POLYUREA GREASE		10.00	4.05	\$40.50	١
S3970	LABOR DISCOUNT		1.00	-152.84	(\$152.84)	١
S3952	DYNO CHARGE - 50.00		1.00	50.00	\$50.00	N
S3790	PARTS DISCOUNT		1.00	-153.95	(\$153.95)	1
S3773	FILTER DISPOSAL - 2.50		4.00	2.50	\$10.00	١
S3759	ZEP BRAKE CLEANER PT		7.00	2.10	\$14.70	N
RE57394	OIL FILTER		1.00	15.73	\$15.73	١
R79605	WASHER		1.00	2.48	\$2.48	١
R77551	O-RING		6.00	0.52	\$3.12	١
ien- Retail						
			Serial No Equipment No		4650T 0	107555 1010W
			Meter Re		40F0T 6	4694
				Model:	JOHN DEER	E 4650
hone Number: 320-238-2471 Repair Order Number: Page:		2 of				
		Repair Order Number:		8447		
EXTO WIN 35570			Branch: Payment Type:		Accoun	
PLATO MN 55370						
3859 CO RD 9	•		Invoice Nu			<b>8950</b> 1/2012
STUEDEMANN BROS			Invoice Nu		F.4	0050

Customer PO No.:

Tax Exempt No.:

09ST3-LOCM

Advisor:

120

Labor: \$1,910.57
Parts: \$1,924.37
Sublet: \$0.00
Misc: (\$175.93)
Sales Tax: \$0.00

**Total:** \$3,659.01

Signed:	Date:	

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

STUEDEMANN BROS	3			Invoice Nu	mber:		42657	
13859 CO RD 9				Invoice	Date:		8/4/20	
PLATO MN 55370				Br	anch:		•	
				Payment	Туре:		Accou	
Phone Number: 320-	000 0474		F	Repair Order Number:			6730	
Tione Number. 320	238-24/1				Page:		1 of	
				Make/N	/lodel:	JOHN DE	ERE 46	
				Meter Rea	•		44	
			İ	Serial Nu		4650	T 0075	
				Equipment Nu	mber:		1010	
MFWD clutch housing. Turned on/off now. Environmental Fee	FWD solenoid. Had power bi Had to cut old solenoid apar	ut no magnetism at the coil. t to remove it. Installed new	Ordered new s solenoid. Che	olenoid. Old so cked operation	lenoid was rus of MFWD clutc	ted into h.	\$246.	
Shop Supplies							\$1.	
Part Number	Description			Quantity	Unit Nett	Value	\$2.	
							Taxed	
19H3548	CAP SCREW			4.00	1.15	\$4.60		
AL58788	SOLENOID V			4.00 1.00	1.15 320.00	\$4.60 \$320.00		
AL58788	SOLENOID V	Sublet: \$0.00	Misc:	1.00	320.00	\$320.00 \$37.68		
AL58788 AR69445QT	SOLENOID V HY-GARD 303	Sublet: \$0.00	Misc:	1.00 12.00	320.00	\$320.00 \$37.68		
AL58788 AR69445QT	SOLENOID V HY-GARD 303	Sublet: \$0.00	Misc:	1.00 12.00	320.00 3.14 Total: 5	\$320.00 \$37.68 <b>\$612.55</b> or:	\$246.0 \$362.2	
AL58788 AR69445QT Labor: \$246.00	SOLENOID V HY-GARD 303	Sublet: \$0.00	Misc:	1.00 12.00	320.00 3.14 Total: :	\$320.00 \$37.68 <b>\$612.55</b> or:	\$246.0 \$362.2 \$0.0	
AL58788 AR69445QT  Labor: \$246.00  Customer PO No.: Tax Exempt No.: 09S1	SOLENOID V HY-GARD 303	Sublet: \$0.00	Misc:	1.00 12.00	320.00 3.14 Total: 5	\$320.00 \$37.68 \$612.55 or: ts:	\$362.2	
AL58788 AR69445QT Labor: \$246.00	SOLENOID V HY-GARD 303 Parts: \$362.28	Sublet: \$0.00	Misc:	1.00 12.00	320.00 3.14 Total: 5 Labe Par Subl	\$320.00 \$37.68 \$612.55 or: ts: et:	\$362.2 \$0.0	

Signed: \_\_\_\_\_ Date:

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





SERVICE INVOICE Invoice To: STUEDEMANN BROS Invoice Number: 426577 13859 CO RD 9 Invoice Date: 8/4/2011 Branch: **PLATO MN 55370** Payment Type: Account Repair Order Number: 67307 Phone Number: 320-238-2471 Page: 1 of 1 Make/Model: JOHN DEERE 4650 Meter Reading: 4412 Serial Number: 4650T 007555 **Equipment Number:** 1010W Gen- Sundry Oil was leaking from right hand side of oil pan gasket joint. Removed MFWD drive shaft and front support. Drained engine oil and \$165.46 transmission oil. Removed MFWD clutch and engine oil pan. Found gasket had split about 1/3 of the way back from the front right hand corner of the pan. Cleaned off oil pan and engine block. Installed new gasket and mounted oil pan. Installed new gasket on MFWD clutch and mounted it. Installed front support plate. Filled engine and transmission with oil. Ran engine and checked for leaks. Installed MFWD drive shaft. Part Number Description Quantity Unit Nett Value Taxed ind R520583 GASKET 1.00 24.50 \$24.50 R89441 **GASKET** -1.00 12.75 \$12.75 N R94447 **GASKET** 1.00 7.99 \$7.99 Ν Labor: \$165.46 Parts: \$45.24 Sublet: \$0.00 Misc: \$0.00 Total: \$210.70 \$165.46 Labor: Parts: \$45.24 **Customer PO No.:** Sublet: \$0.00 Tax Exempt No.: 09ST3-LOCM \$0.00 Misc: Advisor: 120 Sales Tax: \$0.00 Total: \$210.70

Signed: \_\_\_\_\_ Date:

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370	Invoice Number: Invoice Date: Branch:	<b>364270</b> 3/31/2011 1
	Payment Type:	Account
hone Number: 320-238-2471	Repair Order Number:	56707 1 of 5
	Make/Model: Meter Reading: Serial Number: Equipment Number:	JD 4650 4260 4650T 007555 1010W

#### Gen- Retail

the cab heater does not work / check for oil leak from the cylinder head

\$8,837.37

Parked tractor in a stall and connected an exhaust hose. Started engine and let it warm up. Temp gauge barely moved off of cold. Drained cooling system. Removed upper radiator hose and thermostat housing. Replaced thermostats. Cleaned housings and reassembled thermostat housing. Refilled cooling system. Ran engine to warm it up. Temp gauge now comes up to just under the green zone. Washed off unburned fuel from exhaust manifold. Connected tractor to the dyno and put it under load. Engine has 200 hp at rated speed. Coolant started coming out of overflow hose. Connected pressure gauge to the cooling system. Pressure builds up to 7 psi in 45 seconds. We are getting compression into the cooling system. Disconnected dyno and put it away. Brought tractor into the shop and removed hood and side panels. Drained coolant. Disconnected injection lines, wiring, cooling fan mount, coolant hoses, turbo lube lines, air cleaner and steering valve. Removed rocker arm cover and rocker arm. Removed head bolts and head. Found head gasket leaking between #5 cylinder and coolant passage. Cleaned off top of cylinder block and checked liner height above the block. Spec is between .001" - .004". A couple of spots were at zero. Split tractor between engine and clutch housing. Removed engine from tractor and installed on engine stand. Disassembled engine. Sent crankshaft away for machining. Removed sleeves and pistons. Installed new bushings into the connecting rods and sent away for seizing. Inspected camshaft and lifters. Lifter faces were worn concave. Replaced camshaft and lifters. Installed new cam bushings. Cleaned up cylinder block and o-ring grooves. Cleaned up cylinder head. Head was gone through recently. Injectors were replaced recently. Installed new sleeves and pistons. Verified correct liner height above block. Installed crankshaft with .010" bearings on mains and rods. Verified correct oil clearance to crankshaft. Inspected oil pump. It was okay. Installed cylinder head to block. Head bolts are torque-turned so they had to be replaced. Installed rocker arm and adjusted valve clearance. Finished engine assembly and installed engine into front frame. Found 2 clutch plates in C1 clutch that were bad. Replaced both plates. Joined front and rear parts of the tractor, installed all items removed during disassembly. Recharged shift accumulator. Ran tractor on the dyno for engine break-in. Had 212 hp at 2200 eng. rpm. Added 25 gallons of fuel. Washed off engine. Installed hood and side panels. Installed MFWD driveshaft. Swept up work stall.

machine shop charge \$383.04

Environmental Fee Shop Supplies

Part Number Description

\$15.00 \$50.00

Value Taxed ind

**Unit Nett** 

Quantity

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

TUED EL		<del></del>			
STUEDEMANN BRO	OS .	Invoice Nu	mber:	36	34270
13859 CO RD 9		Invoice	Date:		1/2011
PLATO MN 55370		11	anch:		1
		Payment	Type:	A	ccount
Phone Number: 320-	-238-2471	Repair Order Number:		56707	
TIONS (Valido): 020	-200-2471		Page:		2 of 5
		Make/N	flodel:	 ][	D 4650
		Meter Rea	•		4260
		Serial Nu		4650T 0	
		Equipment Nu	mber.		1010W
ien- Retail	550000000000000000000000000000000000000				
07485	BROWN 3IN PREP DISC	2.00	2.99	\$5.98	N
08H4732	CAP SCREW	4.00	2.85	\$11.40	N
19H1740	CAP SCREW	1.00	0.95	\$0.95	N
19H2563	CAP SCREW	1.00	0.95	\$0.95	N
19H3579	CAP SCREW	6.00	0.70	\$4.20	N
19M7348	CAP SCREW	4.00	2.65	\$10.60	N
24H1305	WASHER	4.00	0.37	\$1.48	N
AR100385	KIT	1.00	510.00	\$510.00	N
AR100385-CR	CORE for:KIT	-1.00	60.00	(\$60.00)	N
AR48675	THERMOSTAT	3.00	8.99	\$26.97	N
AR69445QT	HY-GARD 303	6.00	3.14	\$18.84	N
AR73277	BEARING	-6.00	19.50	(\$117.00)	N
AR73279	BEARING	6.00	19.50	\$117.00	N
AR74814	BEARING	-6.00	33.25	(\$199.50)	N
AR74816	BEARING	6.00	28.99	\$173.94	N
AR77748	THRUST BEA	-1.00	56.00	(\$56.00)	N
AR77750	THRUST BEA	1.00	55.00	\$55.00	N
AR80652	FILTER ELE	1.00	53.00	\$53.00	N

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

			OFIZA1		
STUEDEMANN E 13859 CO RD 9 PLATO MN 553	RD 9		Invoice Number: Invoice Date: Branch: Payment Type:		5 <b>4270</b> 1/2011 1 .ccount
Phone Number: 3	320-238-2471	<b> </b>	Repair Order Number: Page:		56707 3 of 5
		Make/M Meter Rea Serial Nur Equipment Nur	lodel: iding: nber:	4650T 0	0 4650 4260
Gen- Retail		<del></del> -			
AR86745	FILTER ELE	2.00	19.25	\$38.50	N
BE-44	44"X52" BAG	1.00	3.55	\$3.55	N
P47889	O-RING	2.00	1.25	\$2.50	N.
R26115	CAP	1.00	2.75	\$2.75	N
R26482	RING	2.00	1.75	\$3.50	N
R26559	WASHER	1.00	1.00	\$1.00	N
R27166	O-RING	2.00	1.05	\$2.10	N
R375R	O-RING	4.00	1.15	\$4.60	N
R44302	TIE BAND	20.00	0.09	\$1.80	N
R50402	HOSE	1.00	13.50	\$13.50	N
R51655	HALF CLAMP	1.00	4.80	\$4.80	N
R51936	WASHER	4.00	1.30	\$5.20	N
R520549	GASKET	1.00	6.75	\$6.75	N
R54500	SCREW	8.00	2.20	\$17.60	N
R57636	WASHER	1.00	1.25	\$1.25	N
R57637	WASHER	1.00	0.90	\$0.90	N
R63845	WASHER	4.00	1.20	\$4.80	N
R67092	SEAL	1.00	3.60	\$3.60	N

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571 (800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

11140106 10, 100041			OLIVA	IOF HAAC	ハしヒ
STUEDEMANN B 13859 CO RD 9 PLATO MN 5537	9 Invoice Date: 3/31/2		Invoice Date: Branch:		<b>64270</b> 31/2011 1 Account
Phone Number: 3	20-238-2471	Repair Order Number: Page:			56707 4 of 5
		Make, Meter Ro Serial N Equipment N	Model: eading: umber:	4650T (	ID 4650 4260
Gen- Retail					
R73189	V-BELT	1.00	7.75	\$7.75	N
R78202	CUSHION	1.00	15.99	\$15.99	N
R79846	CAP SCREW	1.00	3.55	\$3.55	N
R83986	GASKET	1.00	25.99	\$25.99	N
R85626	CLUTCH PLA	2.00	115.00	\$230.00	N
R88042	SCREW	6.00	3.45	\$20.70	N
R88043	SCREW	5.00	5.25	\$26.25	N
R88044	SCREW	8.00	5.99	\$47.92	N
R88045	SCREW	7.00	6.75	\$47.25	N
RE15018	PULLEY, WI	1.00	325.00	\$325.00	N
RE524397	KIT	1.00	220.00	\$220.00	N
RE524416	ENGINE OVERHAUL KIT	1.00	2,190.00	\$2,190.00	N
RE57394	OIL FILTER	1.00	14.99	\$14.99	N
RE60578	WIRING HAR	1.00	99.00	\$99.00	N
S3759	ZEP BRAKE CLEANER PT	10.00	2.10	\$21.00	N
S3773	FILTER DISPOSAL - 2.50	4.00	2.50	\$10.00	N
S3774	ANTI FREEZE DISPOSAL	9.00	1.50	\$13.50	N
S3784	FUEL	25.00	3.65	\$91.25	N

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Invoice To: 100541

## **SERVICE INVOICE**

OLIVAIOL 1144						
STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370		Invoice B	Invoice Number: Invoice Date: Branch: Payment Type:		<b>364270</b> 3/31/2011 1 Account	
Phone Number: 320-	none Number: 320-238-2471		Repair Order Number: Page:		56707 5 of 5	
		Make/I		JI	D 4650 4260	
		Serial Nu Equipment Nu		4650T 0	007555 1010W	
Gen- Retail		<del></del>		<del></del>		
S3790	PARTS DISCOUNT	1.00	-330.72	(\$330.72)	N	
S3952	DYNO CHARGE - 50.00	1.00	50.00	\$50.00	N	
S3970	LABOR DISCOUNT	1.00	-657.53	(\$657.53)	N	
T23891	WASHER	6.00	0.75	\$4.50	٨	
TY22042QT	BREAK-IN OIL	22.00	4.08	\$89.76	N	
TY22467	CLAMP	1.00	0.96	\$0.96	N	
TY26577QT	COOL- GARD II ANTIFREEZE	34.00	2.59	\$88.06	N	
Labor: \$8,219.13	Parts: \$4,134.18 Sublet: \$618.24	Misc: (\$737.50)	Total:	\$12,234.05		

**INVOICE CONTAINS \$8.75 DISCOUNT** 

Customer PO No.:		
Tax Exempt No.:	09ST3-LOCM	
Advisor:	120	

Labor: \$8,219.13
Parts: \$4,134.18
Sublet: \$618.24
Misc: (\$737.50)
Sales Tax: \$0.00
Total: \$12,234.05

Signed: Date:

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

## **SERVICE INVOICE**

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370	Invoice Number: Invoice Date: Branch: Payment Type:	<b>267056</b> 6/25/2010 1 Account
	Repair Order Number:	38078 1 of 2
	Make/Model: Meter Reading: Serial Number: Equipment Number:	JD 4650 3970 4650T 007555 1010W

#### Gen- Retail

replace the failed engine wire harness

\$584.60

Removed old harness and installed new charging circuit harness. Tightened hose clamps on oil cooler reservoir. Removed worn/torn foam from side screens. Cleaned up and installed new foam pieces. Washed out radiator and condenser. Charged seat accumulator.

Environmental Fee Shop Supplies Part Number C3147E	<u>Description</u> WASHER	<u>Quantity</u> 1.00	<u>Unit Nett</u> 3.90	Value	\$2.33 \$6.69 Taxed Ind
N250284	SPRING PIN	1.00	4.20	\$3.90 \$4.20	N N
R21676	ISOLATOR	5.00	10.50	\$52.50	N
R28015	FOAM PAD	1.00	12.50	\$12.50	N
R43753	ISOLATOR	2.00	31.99	\$63.98	N
R44302	TIE BAND	20.00	0.09	\$1.80	N
R46904	ISOLATOR	2.00	9.99	\$19.98	N
R76111	ISOLATOR	2.00	9.75	\$19.50	N
R89761	ISOLATOR	2.00	3.95	\$7.90	N
RE32545	ENGINE POWER WRG HARNESS	1.00	260.00	\$260.00	N

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571







Invoice To: 100541

## **SERVICE INVOICE**

STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370	Invoice Number: Invoice Date: Branch: Payment Type:	<b>267056</b> 6/25/2010 1 Account
Phone Number: 320-238-2471	Repair Order Number:	38078 2 of 2
	Make/Model: Meter Reading: Serial Number: Equipment Number:	JD 4650 3970 4650T 007555 1010W

Gen- Retail

S3955

Labor: \$584.60

ACCUMMULATOR CHARAGE

Parts: \$446.26

Sublet: \$0.00

1.00

20.00

\$20.00

Ν

Misc: \$29.02 Total: \$1,059.88

Customer PO No.:

Tax Exempt No.: 1-09 ST3 ON FILE

Advisor:

120

Labor:

\$584.60

Parts: Sublet: \$446.26 \$0.00

Misc:

\$29.02

Sales Tax:

\$0.00

Total: \$1,059.88

Signed:	Date:
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4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571

(800) 558-3759





Invoice To: 105

## **SERVICE INVOICE**

	··-	
STUEDEMANN BROS 13859 CO RD 9 PLATO MN 55370	Invoice Number: Invoice Date: Branch: Payment Type:	<b>262583</b> 6/15/2010 1 Account
Phone Number: 320-238-2471	Repair Order Number: Page:	37879 1 of 1
	Make/Model:	JD 4650
	Meter Reading:	3870
	Serial Number:	4650T 007555
	Equipment Number:	1010W
Gen- Warranty		
Engine would not start. Batteries were discharged due to failed alternator. Start engine and found voltage meter to be very low. Test alternator on traalternator. Couldn't get alternator to charge so we installed a new reman a Part Number Description SE501386 ALTERNATOR	actor, output out of spec. Remove and bench test	\$79.00  Value Taxed Ind \$333.00 N
Labor: \$79.00 Parts: \$333.00 Sublet: \$0.00	Misc: \$0.00 Total: \$4	12.00

Customer PO No.: Tax Exempt No.: 1 Advisor: 120

Labor: \$79.00 Parts: \$333.00 Sublet: \$0.00 Misc: \$0.00 Sales Tax: \$0.00 \$412.00

Total:

Signed: ..... Date: .....

4561 Hwy 212 Glencoe, MN 55336

Phone: (320) 864-5571 (800) 558-3759





Value Taxed Ind

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\$302.00

Invoice To: 105

SE501386

Labor: \$0.00

**ALTERNATOR** 

Parts: \$302.00

## **SERVICE INVOICE**

STUEDEMANN BROS	Invoice Number:	235619
13859 CO RD 9	Invoice Date:	4/21/2010
PLATO MN 55370	Branch:	1
	Payment Type:	Account
	Repair Order Number:	35246
Phone Number: 320-238-2471	Page:	1 of 1
	Make/Model:	JD 4650
	Meter Reading:	3865
	Serial Number:	4650T 007555
	Equipment Number:	1010W
Gen-Electrical Warranty		
Charging system was not working properly. The Reman alternator faile Advisor. Determine Reman alternator to be failed again. Install another Part Number Description	d. Go through charge system diagnostics as per Se r alternator. Retest, now okay. Quantity Unit Nett	ervice  Value Taxed Ind

Sublet: \$0.00

Misc: \$0.00

1.00

302.00

Total: \$302.00

Total:

\$302.00

	<del></del>	 	·····	
			Labor:	\$0.00
			Parts:	\$302.00
Customer PO No.	•		Sublet:	\$0.00
Tax Exempt No.:	1		Misc:	\$0.00
Advisor:	120		Sales Tax:	\$0.00

Date: .....

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571 (800) 558-3759





Invoice To: 100541

#### SERVICE INVOICE

STUEDEMANN BROS 13859 CO RD 9	Invoice Number: Invoice Date:	<b>235469</b> 4/20/2010
PLATO MN 55370	Branch: Payment Type:	1   Finance
one Number: 320-238-2471	Repair Order Number: Page:	35246 1 of 2
	Make/Model:	JD 4650
	Meter Reading: Serial Number:	3865   4650T 007555
	Equipment Number:	46501 007555 1010W

#### Gen- Retail

repair oil leak under the SGB

\$696.51

Check flashers – found them not working properly. Found the flasher unit to be bad. Install new flasher and now the flashers work good now. Check charging system. Found the alternator to be charging inconsistently. Remove alternator and install on test bench. Tested okay but the amp output kept increasing. Get new alternator and test on bench. Tested okay, the amps stayed the same. Install new alternator on tractor. Start and run tractor. Checked that charging system, now works good. Check #3 SCV – does not flow any oil. Found the flow control valve rusted tight in housing. Remove cover, heat up valve to remove it. Clean off rust and reinstall cover. Test hydraulic in #3 SCV. It has the same flow as other SCV's – works good. Install new hose under cab. Ran and washed unit. No oil leaks now. Run unit on dyno and it has 200 hp.

(the alternator was covered on a parts warranty claim)

Environmental Fee					\$1.00
Shop Supplies					\$6.97
Part Number	Description	Quantity	Unit Nett	<u>Value</u>	Taxed Ind
34H231	SPRING PIN	1.00	0.17	\$0.17	N
AR64422	TURN SIGNA	1.00	53.00	\$53.00	N
AR69445QT	HY-GARD 303	9.00	2.93	\$26.37	N
AR81856	HOSE	1.00	35.50	\$35.50	N
P46051	O-RING	1.00	0.95	\$0.95	N
R40937	BACK-UP RI	1.00	1.55	\$1.55	N

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571

(800) 558-3759





Invoice To: 100541

OTHER ELLINING BROKE

## **SERVICE INVOICE**

Labor: \$696.51	Parts: \$122.44	Sublet: \$0.00	Misc: \$7.97	Total: \$8	326.92	
Gen- Retail R62652	ARM		1.00	4.90	\$4.90	N
			Equipment Numb			0/555 010W
			Meter Readii Serial Numb	J	4650T 0	3865
			Make/Mod		J	4650
Phone Number: 320-	-238-2471	<del></del>	Pa	ge:		2 of 2
Dhair Maria			Repair Order Numb	er:		35246
			Payment Ty	pe:	F	inance
PLATO MN 55370			Bran	ch:		1
STUEDEMANN BRC 13859 CO RD 9	)5		Invoice Numb			<b>5469</b> 0/2010

Finance Information

Type: Farm Plan Auth. No.: 462071 Merchant No.: 44000228

\$696.51 \$122.44 \$0.00

Tax Exempt No.: Advisor:

1-09 ST3 ON FILE 120

Card No.: xxxxxxxxxxxxx0961

\$7.97 \$0.00

**TERMS AND CONDITIONS** 

Repayment Terms:

**Customer PO No.:** 

Bill Code: 704 - JD TRACTOR PARTS/SERVICE Credit Plan: 249 - PURCHASE

Labor:

Parts:

Sublet:

Sales Tax:

Misc:

Total: \$826.92

This purchase is subject to the terms of the issuer's credit agreement. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

Date:

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571





#### www.midwestmachineryco.com

Invoice To Account No: 105

.....

**SERVICE INVOICE** 

STUEDEMANN BROS 14242 COUNTY RD 9 PLATO MN 55370

Phone Number:

(320)238-2471

Invoice Number: Invoice Date:

Invoice Date: Location:

Work Order Number: Payment Type: 1/29/2010 01 33595

Account

210730

Page: 1 of 1

Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4650	5420	4650T 007555	1010W	

Gen- Warranty

COMPLAINT:

the recently installed reman alternator failed

#### CORRECTION:

Engine would not start. Batteries were discharged due to failed alternator. Recharge and load test battery. Found to be okay. Start engine and found voltage meter to be very low. Test alternator on tractor, output out of spec. Remove and bench test alternator. Couldn't get alternator to cahrge so we installed a new reman alternator. Retest charging system, now okay.

Part Number SE501386		Descript ALTER	on NATOR			Quantity 1.00	<u>List Price</u> 302.00	Ext	\$302.00	Taxed ind N
Labor: \$158.00		Parts:	\$302.00	OL&M:	\$0.00	Misc:	\$0.00	Sub-Total:	\$460.00	
								Labor:	;	\$158.00
Customer PO No:								Parts:	;	\$302.00
Tax Exempt No:	1							OL&M:		\$0.00
Advisor:	120							Misc:		\$0.00
								Sales Tax:		\$0.00
*** DOC	UMENT (	COPY * * '	<u> </u>					Grand Total:		\$460.00

#### **TERMS AND CONDITIONS**

Terms are Net 30. A finance charge of 1 1/2% per month (18% annual percentage rate) will be added to all past due invoices except where prohibited by law. All returned checks are subject to a \$30.00 returned check fee.

Received by:	
--------------	--

Phone: (320) 864-5571





www.midwestmachineryco.com

Invoice To Account No: 100541

SERVICE INVOICE

STUEDEMANN BROS 14242 COUNTY RD 9 PLATO MN 55370

Phone Number:

(320)238-2471

Invoice Number: 103714
Invoice Date: 4/25/2009
Location: 01
Work Order Number: 16071
Payment Type: Finance

Page: 1 of 4

Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4650	5420	4650T 007555	1010W	

Gen-Engine Retail

COMPLAINT:

Engine Repairs / coolant is leaking out the radiator

#### CORRECTION:

Ran tractor don dyno, no anti-freeze leaking externally from head gasket. Removed radiator cap after running for 2 minutes, anti-freeze blew all over. Put radiator tester on tractor, started and ran, after 3 minutes of running the pressure test read over 17 lbs. Removed hood, and all necessary parts to remove head. Had to heat up 6 exhaust manifold bolts to prevent twisting off. Cleaned up all parts and inspect. Found the head gasket was failed between the #6 cylinder and the cooling system. Sent the cylinder head in for repair including resurfacing and refacing the valves. Reassembled the engine. Tested all injectors, tested bad. Replaced all injectors, installed new thermostats and replaced the anti-freeze. Adjusted valves, torged all bolts. Checked A/C, the lights were on in the cab. Lifted radiator and installed new line and receiver/drier. Evacuated system, did not hold vacuum over night. Added some Freon, found a leak by compressor front seal. Switched system over to R134A. Installed retrofit kit and A/C clutch timer kit. Replaced expansion valve, flushed out condenser, evaporator and all lines. Evacuated system after installing new compressor and lines. Charged up A/C system, after charging the relief valve on A/C compressor pressure side was leaking. Removed Freon and installed new valve and recharged system. The compressor would not kick in after removing Freon. Turned key on several times and the compressor would not always kick in. Charged system and checked next day, all ok. Suspect that the evaporator was cold enough to not allow compressor to kick in. Washed tractor and ran on dyno, check for leaks and made power check, the tractor has 201 hp @ rated pto rpm. Changed the engine oil and filter. Installed 4 heli-coil's in exhaust manifold. Found oil leak on left side of trans coming from oil return manifold. Removed fitting and hose and replaced o-ring. Tested for leaks, all ok.

recondition the cylinder head

ead \$495.00

Environmental Fee Shop Supplies

Part Number 19H1765	Description CAP SCREW	Quantity 3.00	<u>List Price</u> 0.80	Extended Price \$2.40	Taxed Ind N
19H2458	CAP SCREW	3.00	1.40	\$4.20	N
19H2549	CAP SCREW	1.00	0.80	\$0.80	N
19H2639	CAP SCREW	1.00	1.55	\$1.55	N
19H3239	CAP SCREW	1.00	0.55	\$0.55	N
AR48675	THERMOSTAT	3.00	7.25	\$21.75	N
PT507	LUBRICANT	10.00	2.37	\$23.70	N
R10093	O-RING	2.00	0.70	\$1.40	N
R113050	O-RING	2.00	0.85	\$1.70	N
R34812	O-RING	1.00	0.65	\$0.65	N

Phone: (320) 864-5571





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Invoice To Account No: 100541

**SERVICE INVOICE** 

STUEDEMANN BROS 14242 COUNTY RD 9

**PLATO MN 55370** Phone

Number:

TY15709

**TAPE** 

Invoice Number: 103714 Invoice Date: 4/25/2009 Location: 01 Work Order Number: 16071 Payment Type: Finance

Page:

2 of 4

(320)238-2471

Make/Model: Meter: Serial Number: Eq ID: Fleet No: **JOHN DEERE 4650** 5420 4650T 007555 1010W Gen-Engine Retail R44302 TIE BAND 5.00 0.09 \$0.45 Ν R50402 HOSE 1.00 12.50 \$12.50 Ν R51936 WASHER 3.00 1.30 \$3.90 Ν R54500 **SCREW** 4.00 2.15 \$8.60 Ν R57636 WASHER 1.00 1.45 \$1.45 Ν R57637 **WASHER** 1.00 1.05 \$1.05 Ν R63845 **WASHER** 2.00 1.10 \$2.20 Ν R78326 **BULK HOSE** 3.00 0.54 \$1.62 Ν R79605 WASHER 6.00 2.40 \$14.40 Ν R88042 **SCREW** 6.00 3.35 \$20.10 Ν R88043 **SCREW** 5.00 5.00 \$25.00 N R88044 **SCREW** 8.00 5.75 \$46.00 Ν R88045 **SCREW** 7.00 6.50 \$45.50 Ν RE10980 **MANIFOLD** 1.00 27.50 \$27.50 Ν RE10982 **VALVE** 1.00 25.50 \$25.50 Ν RE206757 **CONTROL VA** 1.00 43.50 \$43.50 Ν RE214439 RECEIVER-D 1.00 42.25 \$42.25 Ν RE24456 **SWITCH** 1.00 320.00 \$320.00 Ν RE524409 **GASKET KIT** 1.00 165.00 \$165.00 Ν RE57342 Line -1.00125.00 (\$125.00)Ν RE57394 **OIL FILTER** 1.00 12.99 \$12.99 Ν RE62129 **KIT** 1.00 440.00 \$440,00 Ν SE500348 6.00 74.00 \$444.00 Ν SE501464 COMPRESSOR 1.00 430.00 \$430.00 T143167 **O-RING** 1.00 0.65 \$0.65 Ν

30.00

0.05

\$1.50

Ν

Phone: (320) 864-5571





www.midwestmachineryco.com

Invoice To Account No: 100541

**SERVICE INVOICE** 

STUEDEMANN BROS 14242 COUNTY RD 9 PLATO MN 55370

Phone Number:

(320)238-2471

Invoice Number: 103714 Invoice Date: 4/25/2009 Location: 01 Work Order Number: 16071 Payment Type: Finance

> Page: 3 of 4

(320)230-			. 11	raye.		J 01 4
Make/Model:	Meter:	Serial Number:		Eq ID:	Fleet No:	
JOHN DEERE 4650	5420	4650T 007555		1010W		
Gen-Engine Retail TY22475	CLAMP		1.00	1.36	\$1.36	N
TY24811	ANTI-SEIZE		1.00	10.29	\$10.29	N
TY27506	DYE SOLUTI		2.00	3.80	\$7.60	N
U13639	O-RING		1.00	1.85	\$1.85	N
07485	BROWN 3IN PREP DISC		7.00	2.95	\$20.65	N
450PF	MARKING FLAG		2.00	2.75	\$5.50	Υ
R1185-6			4.00	1.50	\$6.00	N
AR69445	HYGARD SHOP OIL (QT)		13.00	2.93	\$38.09	N
FREEZE-12OZ	REFRIGERANT		5.00	0.69	\$3.45	N
M001-55OZ			140.00	0.15	\$21.00	N
TY15951	R134A FREON SHOP (OZ)		80.00	0.89	\$71.20	N
TY26577	PREMIX ANTI-FREEZE SHOP (QT)		32.00	2.68	\$85.76	N
TY26678	15W40+50II SHOP OIL (QT)		21.00	3.34	\$70.14	N
Miscellaneous P3750	<u> Description</u> FREIGHT		Quantity 1.00	<u>List Price</u> 8.40	Extended Price \$8.40	<u>Taxed Ind</u> N
S3773	FILTER DISPOSAL - 2.50		1.00	2.50	\$2.50	N
S3774	ANTI FREEZE DISPOSAL		8.00	1.50	\$12.00	N
S3952	DYNO CHARGE 50		1.00	50.00	\$50.00	N

Phone: (320) 864-5571





\$6,303.39

Grand Total:

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Invoice To Account No: 100541 SERVICE INVOICE STUEDEMANN BROS Invoice Number: 103714 14242 COUNTY RD 9 Invoice Date: 4/25/2009 PLATO MN 55370 Location: 01 Phone Work Order Number: 16071 Number: Payment Type: Finance (320)238-2471 4 of 4 Page: Make/Model: Meter: Serial Number: Eq ID: Fleet No: **JOHN DEERE 4650** 5420 4650T 007555 1010W Gen-Engine Retail S3953 FREON RECOVERY 1.00 25.00 \$25.00 Ν **OL&M Charges:** Description <u>Value</u> recondition the cylinder head \$495.00 \$495.00 Resurface the cylin Labor: \$3,252.80 Parts: \$2,412.25 OL&M: \$495.00 Misc: \$97.90 Sub-Total: \$6,257.95 Miscellaneous Charges: **Environmental Fee** \$12.55 **Shop Supplies** \$32.53 Finance Information Labor: \$3,252.80 **Customer PO No:** Type: Multi-use Acct US Auth. No: 507319 Parts: \$2,412.25 Tax Exempt No: 1-09 ST3 ON FILE Merchant No: 44000228 OL&M: \$495.00 Advisor: 120 Card No: xxxxxxxxxxxx0961 Misc: \$142.98 - JD TRACTOR PARTS/SERVICE Bill Code: 704 Sales Tax: \$0.36

#### **TERMS AND CONDITIONS**

\*\*\* DOCUMENT COPY \*\*\*

Repayment Terms:

This purchase is subject to the terms of the issuer's credit agreement. I grant the issuer a purchase money security interest, except as limited in that agreement, in the goods described.

- PURCHASE

Received by:	. Date:
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Credit Plan: 249

4561 Hwy 212 Glencoe, MN 55336 Phone: (320) 864-5571





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Invoice To Account No: 100541

SERVICE INVOICE

Fleet No:

STUEDEMANN BROS 14242 COUNTY RD 9 PLATO MN 55370

Phone

Number:

Invoice Number: Invoice Date:

Location: Work Order Number: Payment Type:

01 300135764 Account

10/28/2007

300135764

Page:

1 of 2

(320)238-2471 Make/Model:

JOHN DEERE 4650

Meter:	Serial Number:	Eq ID:	
0	4650T 007555	1010W	

01-GEN-9 Retail COMPLAINT:

THE ENGINE OVERHEATS

#### CORRECTION:

WASHED OUT RADIATOR AND RAN TRACTOR ON DYNO. RAN UNDER LOAD FOR 1 1/2 HOURS DID NOT GET HOT. BROUGHT IN SHOP, REPLACED COOLANT TEMP SENSOR, CUT OFF OTHER WIRE FOR TEMP SENSOR WHICH IS NO LONGER USED. FOUND OIL LEAK COMING FROM STEERING MOTOR, REPLACED LINES. IT STILL HAD A SMALLER LEAK. HAD TO REMOVE BLEED OFF LINE FROM STEERING MOTOR. WASHED OFF TRACTOR, LEFT RUN OUTSIDE. TRACTOR BLEW OUT ANOTHER LINE IN THE CAB, HAD TO REPLACE LINE. REMOVED FLOOR MAT AND WASHED, CLEANED OIL OFF FLOOR. RAN TRACTOR AGAIN. CHECKED OIL LEVELS AND COOLANT. PUT FOAM ON SIDE SCREENS.

Labor: \$0.00 Parts: \$0.00 OL&M: \$0.00 Misc: \$712.90 Sub-Total: \$712.90

**PARTS Retail** COMPLAINT: **CONVERSION PARTS** 

CORRECTION: **CONVERSION PARTS** 





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Invoice To Account No: 100541	SERVICE INVOICE			ICE	
STUEDEMANN BROS 14242 COUNTY RD 9		***	Invoice Number:	00010	<b>35764</b> 8/2007
PLATO MN 55370			Location		01
Phone Number:			Work Order Number:	3001	135764
Number.			Payment Type:		ccount
(320)238-2471			Page:		2 of 2
Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:	
JOHN DEERE 4650	0	4650T 007555	1010W		
Labor: \$0.00 Parts: \$0.00	OL&M:	\$0.00	Misc: \$0.00	Sub-Total: \$0.00	
•	ATTENTION:	Part(s) values for this	s Invoice have changed. Origina	I Invoice Parts Sale Value = :	<b>\$22</b> 5.23
	<u>.</u>			Labor: \$6	98.40
Customer PO No:				Parts: \$2	25.23
Tax Exempt No:				OL&M:	\$0.00
Advisor: 116				Misc: \$	14.50
				Sales Tax:	<b>#</b> 0.00
					\$0.00

#### **TERMS AND CONDITIONS**

Terms are Net 30. A finance charge of 1 1/2% per month (18% annual percentage rate) will be added to all past due invoices except where prohibited by law. All returned checks are subject to a \$30.00 returned check fee.

Received by:	Date	• ************************************
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Invoice To Account No: 100541

SERVICE INVOICE

STUEDEMANN BROS 14242 COUNTY RD 9 **PLATO MN 55370** 

Phone

Number:

Invoice Number: Invoice Date: Location:

4/2/2007 01 300134161

300134161

Work Order Number: Payment Type:

Account

Page:

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(320)238-2471 Make/Model:

**JOHN DEERE 4650** 

Meter: 7075

Serial Number: 4650T 007555 Eq ID: 1010W Fleet No:

01-GEN-9 Retail

COMPLAINT:

THE TRANSMISSION PRESSURE LIGHT COME

#### CORRECTION:

TESTED TRANS SYSTEM PRESSURE AND LUBE PRESSURES. RESULTS LIST BELOW, ALL TESTED OK. TRANS LIGHT COMES ON IF SYSTEM PRESSURE IS LOW, OIL TEMP IS HIGH OR TRAN FILTERS RESTRICTED. REMOVED FILTERS, DATED 96 AND 97. OIL WAS DARK COLORED. CHANGED FILTERS AND OIL. TESTED SCV'S, FOUND #1 TO HAVE INTERAL LEAKS. REBUILTS SCV WITH NEW VALVES AND SEAL KIT. REBUILT BREAKAWAY COUPLERS IN SCV #1. REPLACED BARRELS WITH USED REBUILDABLE BARRELS. HYD SPECS AS FOLLOWS: TRANS PRESSURE 170-180 PSI @ 2000 RPM 100 DEGREES, ACTUAL 170 PSI LUBE PRESSURE 23 PSI MIN @ 2000 RPM @ 100 DEGREES, ACTUAL 24 PSI.

Sub-Total: \$702.59 Labor: \$0.00 Parts: \$0.00 OL&M: \$0.00 Misc: \$702.59

**PARTS Retail** COMPLAINT: **CONVERSION PARTS** 

CORRECTION:

**CONVERSION PARTS** 

# Midwest Machinery Co. 4561 Hwy 212

Glencoe, MN 55336 Phone: (320) 864-5571





Labor:

Parts:

OL&M:

Sales Tax:

**Grand Total:** 

Misc:

\$689.04

\$552.68

\$0.00

\$13.55

\$0.00

\$1,255.27

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00541				SERVIC	E INVOICE
			Invoice Loc Work Order Nu	mber: Date: eation: mber:	300134161 4/2/2007 01 300134161 Account
2471			- [] ,	Page:	2 of 2
	Meter:	Serial Number:			eet No:
	7075	4650T 007555	1010W		
			-		
Parts: \$0.00	OL&M:	\$0.00	Misc: \$0.00	Sub-Total:	\$0.00
	2471	2471 Meter: 7075	2471  Meter: Serial Number: 7075 4650T 007555	Invoice Number: Serial Number: Eq ID: 7075 4650T 007555 1010W	Invoice Number:   Invoice Date:   Location:   Work Order Number:   Payment Type:   Page:     Page:     Fi

\*\*\* DOCUMENT COPY \*\*\*

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**Customer PO No:** 

Tax Exempt No:

Advisor:

#### **TERMS AND CONDITIONS**

Terms are Net 30. A finance charge of 1 1/2% per month (18% annual percentage rate) will be added to all past due invoices except where prohibited by law. All returned checks are subject to a \$30.00 returned check fee.