

<b>Invoice Number:</b>	
Invoice Date	06/07/2017
Location:	33
Work Order Number:	472028
Payment Type:	Account
Page:	1 of 7
Technician Number:	

Make/Model:	Meter	Serial Number:	EQ Id:	Fleet No:
JOHN DEERE 4840	9800	RW4840P004380	CW4840	

Service Reminders:

# **Gen- Retail**

## COMPLAINT:

01 General Repairs  
NO HYDRAULICS  
TRANSMISSION PROBLEMS

## CAUSE:

## CORRECTION:

## General Repairs

T3365 - After tractor was split, and clutches out. Disassemble all modules removed. Disassemble both clutch packs, transmission pump, differential lock, bad final, and disassemble output planetary gear set. Create a parts list for all needed parts. Parts quote was quite high, and customer located complete reman modules, and salvage yard gears. Order parts for what was not retrieved by the customer, and rebuild what can be done with our parts.

DENNIS removed the old bearings, and cups on the pinion, and installed new bearings. Also he adjusted the cone piont, and pinion bearing preload.

Reseal differential lock piston, and reassemble differential. Remove old carrier bearings, and cups, and install new ones. Install differential assembly back into the case, and adjust bearing preload, and backlash according to spec. Torque all hardware to spec.

DENNIS - Install new reman clutchpack modules, reseal PTO quill, and reconnect the tractor halves.

T3365 - Disassemble the salvage yard final drive to check bearings. Found the bearings, and races to be bad. Remove all races, bearings, and seals from the salvage yard final. Disassemble final planetary gear set. Remove all rollers, and clean rust from gears, and pins. Mix, and match parts with the old gear set to use all the best parts. Once gear set is assembled, set axle rolling torque to spec. I cleaned up all brake parts, and Jerrod Miller rivited on the new pads. Install both finals with new brakes and discs. Connect all lines, and linkages removed for repairs, and reinstall cab. Locate, and reconnect all lines, linkages, and wires removed by the teardown crew. Replac any hydraulic lines in question of leakage. Found the throttle, and tach cable were both coming apart. Remove and replace both cables. Found some electrical plugs were melted and had bad connectors. Repair them as needed. Hydraulic pump coupler was bad. Remove coupler halves, install new bushings, and couplers. Adjust all cables to spec. Found the speed selector cable was coming apart internally. Remove, and replace cable, and readjust to spec. Customer wanted to convert tractor back to a two battery setup. Have new cables made, and install boxes brought in by customer. Weld up both battery boxes as they are both cracked or broken. Also while the welder is out, weld up the door frame so the glass does not fall out, and the door will shut. Fill tractor with fresh oil, start, and check over for leaks. Found the steel return from the pump was worn through at a clamp, a couple fuel return boots were leaking, breakaway couplers were leaking, and the metering pump under the dash was dripping. Remove line, and braze up line. Reinstall line and verify repairs. Remove, and replace leaking return boots. Remove all four breakaway couplers, disassemble, reseal, and reinstall. When reassembling, found the coupler barrels were pitted with rust, and would not hold a seal correctly. Dennis had a few spare couplers in better condition we traded them out for. DENNIS disassembled the console, removed resealed and reinstalled the metering pump. Also replaced a couple leaking steering lines. Check steering, and found there was none still. Remove, disassemble, and replace steering valve. Customer retrieved this part as well. After installing, check steering operation. Steering now works, but the hitch does not. First, we found the linkage was broken. Install new linkage arm, and adjust to spec. Oil is bypassing inside the hitch valve. Remove SCV, and disassemble hitch valve. Found the seats were horrible. Grind valve seats, and lap valves to the seats. This procedure took longer than usual because of the seat condition. Reseal, and reassemble all parts removed for hitch valve repair. Hitch now seems to work, without bypassing.

Check A/C out. When gauges are hooked to it, it immediately sucks the refrigerant out of the gauges, and leaks it out of a bad line. Remove

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9800

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CW4840

## Service Reminders:

bad line, and replace with a good one. Reseal all connections disturbed in line replacement. Suck down the A/C system, and check for leaks. System held a vacuum for 15 minutes showing no leaks. Charge system, and check operation. A/C blows cold. Wash off tractor from repairs, and clean out radiator, and coolers. Clean out interior of tractor, and install floor panels, and floor mat. Drive tractor around and check operation. All functions seem to work, and no major leaks are noted. Reinstall all sheet metal, and other covers/shields. Clean up area, and put away equipment. Found after sitting, the PTO seal was leaking. Drain oil, remove, and replace seal. Fill back up with recovered oil. Run tractor to check for leaks. All seems OK. Park on lot.

T3365, and J. Miller - Customer wanted lights working. Check out switch, and found it to be bad. Remove, and replace. Raise roof, and begin tracing down wiring to all the lights. Only one light worked when we started. Found cut loose wiring on top of the cab. Repair cut wires on top of cab, and grounds on all lights. Replace needed bulbs, and sockets as well. Repair all bad connectors, and wiring down to the fuse box. Check all connections at the box. Trace wiring issues down to the key switch. Found bare, shorted, and melted wires at the switch. Cut out bad sections of wires, and repair bad spots. Check lights operation. Found the original wiring has been cut loose, and different wiring has been installed. High low beams do not work as they should, but we suspect the rewiring is the issue. All lights, flashers, and hazards work except with the dimmer switch. Get blowers to work in all speeds as well. Repair bad connections.

<u>PartNumber</u>	<u>Description</u>	<u>Quantity</u>
14M7296	FLANGE NUT	12.00
19H2116	Cap Screw	2.00
19M7786	SCREW	12.00
203225	TERMINAL	2.00
24M7139	WASHER	1.00
31245	NUT	1.00
34H297	SPRING PIN	2.00
35819	SCREW	1.00
40065	TAPE	1.00
400R	BALL	26.00
414475	TERMINAL	2.00
57723	2/0POSDB	1.00
725345	SPLICE	17.00
787105	SOCKET	1.00
9923	WIRE	2.00
9933	4WATMALE	2.00
A4728R	O-RING	6.00
AH113727	SWITCH	1.00
AR21085	DRIVE CABL	1.00
AR45923	BATTERY CA	1.00

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## Service Reminders:

AR48725	SWITCH	1.00
AR51481	KEY	1.00
AR54618	PUSH PULL	1.00
AR56056	Arm	1.00
AR74194	ELBOW FITT	1.00
AR75527	SEAL	1.00
AR82412	PACKING	2.00
AR82570	BREAKAWAY	2.00
AR94510	FILTER ELE	2.00
B3285R	WASHER	1.00
D1761R	RIVET	54.00
D2361R	BALL	4.00
F2741R	PACKING	1.00
HDW	1 OZ HARDWAR	36.00
JD7446	Bearing Cup	1.00
JD7769	LUBRICATIO	1.00
JD8195	Bearing Cone	1.00
JD8214	BEARING CU	1.00
JD8248	BEARING CU	1.00
JD8298	BEARING CU	1.00
JD8875	NEEDLE BEA	1.00
JD8962	BEARING CO	1.00
JD9018	BEARING CO	1.00
JD9019	BEARING CO	1.00
JD9040	BEARING CO	1.00
JD9092	BEARING CO	1.00
JD9104	BEARING CU	1.00
JD9147	BEARING CU	1.00
JD9346	BALL BEARI	1.00
PM05405	TUBE	0.40
PM15601	Cotter Pin	2.00
PM62102	Cotter Pin	1.00

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## Service Reminders:

PM62103	Cotter Pin	3.00
R100308	GASKET	1.00
R110464	BRAKE SHOE	12.00
R113050	O-RING	1.00
R26149	PACKING	5.00
R27149	O-RING	1.00
R27928	O-RING	2.00
R28776	O-RING	4.00
R29936	O-RING	1.00
R31890	SPRING	4.00
R33415	SHIM	4.00
R33521	SHIM	1.00
R34362	CLAMP	2.00
R34733	WASHER	2.00
R34766	CLAMP	6.00
R34863	SPRING	3.00
R35155	O-Ring	4.00
R36881	RING	2.00
R40712	Snap Ring	1.00
R40922	BACK-UP RI	1.00
R43339	WASHER	1.00
R43376	GASKET	1.00
R43408	GASKET	1.00
R43659	RING	2.00
R44302	TIE BAND	12.00
R45079	SHIM	1.00
R45080	SHIM	1.00
R45081	SHIM	2.00
R45822	BUSHING	4.00
R459R	O-RING	4.00
R46004	PACKING	1.00
R46528	SPRING LOC	1.00

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## Service Reminders:

R46673	WASHER	6.00
R50566	Plate	1.00
R55243	SHIM	2.00
R56463	O-RING	1.00
R57636	WASHER	1.00
R57637	WASHER	1.00
R58861	Spacer	1.00
R58900	GASKET	1.00
R59074	OIL CUP	1.00
R62278	THRUST WAS	2.00
R65450	AIR FILTER	1.00
R66053	Arm	1.00
R68610	NUT	1.00
R708R	RIVET	18.00
R72653	SNAP RING	4.00
R72858	SEAL	2.00
R74210	O-RING	2.00
R77401	O-RING	1.00
R77480	ELECTRICAL	1.00
R92474	GASKET	1.00
R93207	BRAKE DISK	2.00
R94321	GASKET	1.00
R97770	GASKET	1.00
R99394	GASKET	2.00
RE14439	SEAL	2.00
RE21740	BATTERY CA	1.00
RE261113	LINE	1.00
RE31702	SEAL	1.00
RE53286	PUSH PULL	1.00
T11234	LOCK NUT	2.00
T23425	BOOT	3.00
TY22028	HY-GARD	108.00

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## Service Reminders:

TY22462	CLAMP	1.00
TY22563	BULK HOSE	1.40
TY25631	BLACK PAINT	1.00
TY26101	CLEANING S	6.00
TY26575	COOL-GARD	1.00
U15192	O-RING	2.00
U46283	SEAL	2.00
U46662	ELEC. CONN	4.00
X10343-6-6	HOSE FITTI	1.00
X10643-5-4	HOSE FITTI	4.00
X10643-6-6	HOSE FITTI	2.00
X13943-5-4	ELBOW FITT	2.00
X13943-6-6	ELBOW FITT	1.00
X431-4-RL	Bulk Hose	55.00
X431-6-RL	Bulk Hose	53.00
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>
P3750	FREIGHT	1.00
P3750	FREIGHT	1.00
P3750	FREIGHT	1.00

**Miscellaneous Charges:**

Labor: \$8,066.87	Parts: \$4,017.36	OL&M: \$0.00	Misc: \$30.00	Sub-Total: \$12,114.23
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**Gen-Chassis & Frame Retail**

## COMPLAINT:

02 Chassis, Frame & Shield Repairs.  
DISASSEMBLE

## CAUSE:

## CORRECTION:

Chassis, Frame & Shield Repairs.  
PREPARE TRACTOR FOR SPLITTING AND CAB REMOVAL. REMOVE CAB AND SET OUTSIDE. REMOVE ROCK SHAFT HOUSING AND CLUTCH PACK COVER. INSPECT CLUTCH PACK AND RING AND PINION. TEAR DOWN TRANSMISSION DOWN TO BARE

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9800

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CW4840

## Service Reminders:

HOUSING. CLEAN METAL AND TRASH OUT FROM HOUSING AND WASH OUT WITH DIESEL FUEL. REMOVE FINALS AND INSPECT, RIGHT FINAL HAS BAD GEARS AND HAD END PLAY. REPLACE BRAKE PADS ON BOTH SIDES. REMOVE SHIFT VALVE AND CLEAN ALL RELIEF VALVES - RE-SEAL AND RE-ASSEMBLE WITH ALL NEW GASKETS AND O-RINGS. REMOVE REAR PTO COVER TO GAIN ACCESS FOR CLEANING HOUSING AND TO INSPECT BEARING.

<u>PartNumber</u>	<u>Description</u>	<u>Quantity</u>
203425	TERMINAL	2.00
725345	SPLICE	8.00
7377	TUBE	1.00
7379	TUBE	1.00
AR48041	BULB	1.00
AR48724	ROTARY SWI	1.00
AR60250	LAMP	1.00

**Miscellaneous Charges:**

SERVICE ACCESSORIES

Labor: \$3,543.65	Parts: \$57.87	OL&M: \$0.00	Misc: \$100.00	Sub-Total: \$3,701.52
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Labor: \$11,610.52

Parts: \$4,075.23

OL&amp;M: \$0.00

Misc: \$130.00

Sales Tax: \$22.46

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Total: \$15,838.21

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# Invoice

Date 7/24/2013  
Invoice # 2069

Item	Description	Qty	Price	Amount
H-175	Fuel line	2.6		
24666	AC O-Ring	3		
1041	Cotter Pin	1		
FA68060	Bolt	1		
FA532A	1/2 Lockwasher	1		
RUAB53	50/50 premix coolant	9		
18139	A/C O Ring	1		
320-237	Insulation Tape	2.5		
QL-HTB	Quick Lift HTB Hyd oil	4		
81114	Female Quick Slide	1		
CEN15/40	Cenex 15/40 Motor Oil	10		
RE206757	Expansion Valve	1		
OPE	Outside parts expense - Chuck's Radiator - radiator repair			
217536	Load Shaft	1		
LRS6	Labor			
SS1	Shop Supplies	1		
	Removed cylinder head and took to Precision Ag for repair, cylinder head had 8 cracks and was no good, found cylinder head at Leader's salvage and had valve protrusion set, removed oil pan and checked bearings, removed pistons and liners, found counter bores were			

Subtotal  
Sales Tax (7.0%)  
Total  
Payments/Credits  
Balance Due

# Invoice

Date 7/24/2013  
Invoice # 2069

Item	Description	Qty	Price	Amount
	pitted and corroded, split tractor and removed engine, stripped engine and prepped for installation, engine provided by customer, found engine would not work, installed components back on engine, took engine to Precision Ag, flywheel was resurfaced, crank was cleaned polished and inspected, block was hot tanked, cleaned piston squirters and oil galley, removed and installed cam and bearings, machined block for counter bore, honed wrist pin bushings, resized rod ends, installed crank and bearings, installed new clutch plate, installed overhaul kit and installed engine, removed and installed load shaft and load shaft seals-load shaft was replaced with used shaft per customer request, removed radiator and took to Chuck's Radiator and reworked installed radiator, washed out condensor, changed oil and filters, replaced fuel and air filters, replaced hydraulic filters, replaced expansion valve, removed and replaced ac compressor and dryer, vacuum and charged ac system, repaired wiring ro sensors, replaced oil pressure and coolant temp sensor, hydraulic pump and rh axle housing are leaking hydraulic oil-notified customer of issue, water pump turbo and injectors are not covered under warranty as customer did not wish to change,			

Subtotal  
Sales Tax (7.0%)  
Total  
Payments / Credits  
Balance Due

# Invoice

Date 7/24/2013  
Invoice # 2069

Item	Description	Qty	Price	Amount
OPE	Outside parts expense - Precision Ag Machine block work	1		
151543	Lower Repair Sleeve	6		
94937	Overhaul Kit	1		
OPE	Outside parts expense - Precision Ag Machine head work	1		
08880	Brake clean can	7		
95710	Surface Cone Disc	10		
FA68034	3/8 x 1 1/2 hex bolt	2		
FA530A	3/8 Lock	10		
FA88446	5/16 Flatwashers	2		
FA68042	Bolt	1		
FA68040	3/8 Bolt	3		
FA68036	Bolt	4		
FA529A	5/16 lock	3		
FA68029	Bolt	3		
86738	Clamp	2		
3370	Fuel Filter	2		
FA68123	3/4 Bolt	2		
FA535A	3/4 lock washer	2		
94610	Nylon Cable Ties	12		
64627 08	Hydraulic hose	6.5		
88365	Fitting	2		

Subtotal  
Sales Tax (7.0%)  
Total  
Payments/Credits  
Balance Due

Tran. Date	Date Posted	Invoice # / Reference	Description	Transaction Amount
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Details continued from Invoice # 2089137

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 PK			AUTHORIZED BUYER Morgan Koke TRIMMER LINE 7% Sales Tax 7%

07/29/13 07/30/13 2089568 PURCHASE 24.60

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 EA			AUTHORIZED BUYER GARY HOSE & REGULATOR 7% Sales Tax 7%

08/07/13 08/08/13 2091892 PURCHASE 35.06

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 EA			ADAPTOR
1.00 EA			WRENCH SET
			7% Sales Tax 7%

HORIZON EQUIPMENT WOODBINE IA 712-647-2702

07/15/13 07/15/13 346936 PURCHASE 400.83  
PARTS TRACTOR

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 Each			BELT SET Part# RE29018
4.00 Each			BUSHING Part# R45822
1.00 Each			Pulley With Dampener Part# AR72127
2.00 Each			PACKING Part# R123145

07/17/13 07/17/13 347353 PURCHASE 218.57  
PARTS TRACTOR

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 Each			SHROUD Part# AR96560
1.00 Each			FREIGHT Part# 3750

07/18/13 07/18/13 347584 PURCHASE 40.32  
PARTS TRACTOR

Quantity	Unit Price	Item Total	Invoice Item Description
7.00 Each			BOOT Part# T23425
7.00 Each			CLAMP Part# R34766

07/18/13 07/18/13 347437 PURCHASE 86.79  
PARTS TRACTOR

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 Each			FILTER ELE Part# AR80652
1.00 Each			FILTER ELE Part# AR80653

07/22/13 07/22/13 347952 PURCHASE 12.99  
PARTS TRACTOR

Quantity	Unit Price	Item Total	Invoice Item Description
1.00 Each			BLOWER SWI Part# AR82014

07/22/13 07/22/13 348056 PURCHASE 64.99  
PARTS TRACTOR



Date		Terms		Invoiced By	ShipVia	Shipping #		PO Number	
5/16/13		standard		allied					
Ord	Shp Unit	Code	Part #	Description		Core Tax	Net Price	List Price	Extended
1	1	UP	AR103505	CYLINDER HEAD/BARE					

Sub-Total	\$1,250.00
Tax	\$0.00
<b>Total</b>	<b>\$1,250.00</b>

Date	Terms	Invoiced By	ShipVia	Shipping #	PO Number
6/4/13	standard	allied			

Ord	Shp Unit	Code	Part #	Description	Core Tax	Net Price	List Price	Extended
1	1		NAM 836203	PILOT BEARING				
1	1		NAM R73542	CLUTCH DISC				

Sub-Total	\$427.15
Tax	\$0.00
<b>Total</b>	<b>\$427.15</b>

Date	Terms	Invoiced By	ShipVia	Shipping #	PO Number
6/6/13	standard	allied			

Ord	Shp Unit	Code	Part #	Description	Core Tax	Net Price	List Price	Extended
1	1	UP	R50398	AFTERCOOLER COVER				

Sub-Total	\$150.00
Tax	\$0.00
<b>Total</b>	<b>\$150.00</b>

# Invoice

Date 7/24/2013  
Invoice # 2069

Item	Description	Qty	Price	Amount
	replaced coolant, drove tractor and checked functions, checked for oil leaks			

Subtotal	\$9,151.99
Sales Tax (7.0%)	\$468.71
Total	\$9,620.70
Payments/Credits	\$0.00
Balance Due	\$9,620.70