

Invoice To Account No:

Deliver To:

SERVICE INVOICE

Bus Phone: Prv Phone:	Bus Phone: Prv Phone:	Invoice Number:	-----
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		Location:	6
		Work Order Number:	
		Payment Type:	
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Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4710	4003	N04710X000229	21867W	

4710F863979 Retail

COMPLAINT:

01 JOHN DEERE MACHINE INSPECTION

CORRECTION:

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JOHN DEERE 4710	4003	N04710X000229	21867W	

4710F863979 Retail

Complete PerformMax inspection per checklist available on PartsEXPERT.

Electrical System:

- Service battery (250 hr)
- Tighten battery connections/clean terminals and grounds
- Check condition of battery box.
- Check starter operation
- Check neutral start system (250 hr)
- Check for presence of starter terminal guard
- Check alternator is charging
- Check lights/turn signals
- Check instruments/indicator lights
- Check starting aid operation
- Check wiring harnesses
- Calibrate radar speed sensor
- Calibrate wheel speed sensor
- Calibrate ground speed sensor
- Check block heater
- Check function and wiring of monitors, radios ect.

Engine:

- Check oil level
- Replace engine oil and filter (100 hr)
- Check intake system
- Check hoses and clamps
- Check air filters
- Inspect turbo
- Check exhaust system
- Check head gasket for oil/coolant leakage
- Check valve lash adjustment (2500 hr)
- Replace crankshaft dampener (4500 hr)
- Check hi and lo idle speeds
- Check for oil leaks
- Check pulleys for cracks/missing pieces
- Check belts tension and condition (1500 hr)
- Clean vent tube

Cooling System:

- Replace radiator cap (5000 hr)
- Check coolant level
- Check radiator pressure, leakage and excess debris
- Check hoses and clamps for leaks
- Check water pump weep hole for leakage
- Drain, flush and refill coolant (5000 hr)
- Check coolant condition and freeze point

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JOHN DEERE 4710	4003	N04710X000229	21867W	

- Check coolant condition and freeze point
- Replace thermostats (5000 hr)
- Fuel System:
- Check for fuel leaks
- Clean fuel tank vent (750 hr)
- Drain fuel tank and sump (250 hr)
- Check fuel strainers
- Replace fuel filters (500 hr)
- Perform pressure test on transferpump
- Conduct engine mis-fire test if problems during power c
- Hydraulic and Hydrostatic System:
- Change oil (entire system) (500 hr)
- Replace filters/strainers (500 hr)
- Check oil reservoir for leaks/cracks
- Check oil cooler for leaks/cracks
- Check hoses/lines/fittings
- Check hydraulic pump flow and standby pressure
- Check isolators
- Check hydrostatic pump charge pressure
- Check steering relief pressure/leaks/lock-to-lock
- Check park brake
- Check emergency brake
- Remove and inspect brake pads
- Remove and inspect brake rotor
- Check tread adjust
- Shim gap (100 hr)
- Check range select operation
- Check wheel motors case drain flow
- Check wheel motors flow and pressure
- Check drive hub end play
- Check proportional valve for leaks and corrosion
- Check drive hub seals
- Torque drive wheel bolts (100 hr)
- Check drive hub oil level
- Change planetary hub oil (50 hr then 500 hr)

- Operators Station:
- Check door adjustment
- Check cabin pressure
- Check pressurized blower
- Check seat and seat belt operation
- Check cab body and cab body mounting
- Replace cab filter (500hr)

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- Check wipers and washers
- Check blower motor
- Check heater operation
- Check mirrors
- Check AC operation
- Check system charge
- Check condensor/evaporator for leaks
- Check heater core
- Check tread adjustment switches
- Check armrest/hydro handle
- Check on board diagnostics system codes
- Update GreenStar display

Boom:

- Check boom functions/valves/cylinders
- Check boom structure for cracks in welds
- Inspect switches and sensors (1500 hr)
- Calibrate boom return
- Check boom sensors
- Check suspension operation
- Check cables/springs/cylinders
- Check boom plumbing
- Check boom plumbing fasteners
- Check boom bumpers for cracks
- Check accumulator charge
- Check boom breakaway
- Check hinge pins
- Check hydraulic cylinders
- Tighten boom hardware to specification
- Lubricate boom (50 hr)

Solution System:

- Check solution tank, straps and fittings (250 hr)
- Check tank level gauge
- Check low flow valve
- Check boom section shut-off valves
- Inspect check valves
- Check suction strainer
- Check pressure manifold
- Check agitation solenoid valve
- Check agitation manual valve
- Check hose clamps
- Check solution hose
- Check nozzle bodies
- Check quick fill strainers (daily)
- Check main solution strainer (daily)

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- Check boom strainers (daily)
- Check spray tips (replace at 10% error)
- Check nozzle strainers
- Check rinse tank and plumbing
- Check hand rinsetank
- Check fence row system
- Check eductor plumbing
- Check flow meter (daily)
- Check pressure transducer
- Check rate controller
- Check pump calibration
- Calibrate solution pump and drive
- Foam Marker System:
- Check foam tank and hoses (10 hr)
- Check electrical harness and fuses
- Check switches/knobs
- Check foam generators and drop screen
- Check streamer sock and elbow
- Check air tank
- Flush foam marking system (250 hr)
- Replace shut-off diaphragms (as required)
- Check foam fill
- Check foam system for functionality
- Inspect check valves
- SprayStar System:
- Check rate controller
- Check GreenStar Display is current
- Check wiring harness
- Clean/calibrate flow meter
- Check pressure transducer
- Check proportional valve
- Chassis:
- Check air springs
- Check scissor suspension (first 10 hr)
- Check fenders/handrails/shields
- Check machine frame
- Check hardware torque
- Check pressure washer
- Check on board air tank (drain water daily)
- Lubricate driveshaft U-joints (250 hr)
- Clean sprayer and coat exposed surfaces
- Check auto air spring fill system (daily)
- Check ladder operation
- Adjust toe in

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-Adjust toe-in

AMS Components:

- Check steering angle sensor
- Check steering valve
- Check priority valve
- Check parallel tracking
- Check Autotrac Ssystem
- Check TCM
- Check Starfire ITC
- Check field doc
- Check safety decals
- Check fire extinguisher charge
- Check presence of operator manual
- Check presence of spray tip tool

Labor:	Parts: \$0.00	OL&M: \$0.00	Misc: \$0.00	Sub-Total:
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***DIAG-SPRAYER Retail**

COMPLAINT:

SEAT LEAKS DOWN

CAUSE:

FITTING LEAKING UNDER SEAT

AIRBAG DRY ROTTED AND LEAKING

CORRECTION:

REMOVE ACCORDIAN COVER

SPRAY DOWN ASSEMBLY UNDER SEAT WITH SOAPY WATER

FOUND FITTING LEAKING AT BASE

REMOVE FITTING, ADD SEALANT TO THREADS AND REINSTALL

SEAT DOES NOT LEAK DOWN AS FAST

FOUND ALSO THAT THE AIRBAG IS DRY ROTTED AND LEAKING THROUGH

ORDERED AIRBAG

Lab	Parts: \$0.00	OL&M: \$0.00	Misc: \$0.00	Sub-Total:
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Gen- 3 Retail

COMPLAINT:

REPLACE AIR BAG TO SEAT
REPLACE DOOR SHOCK

CAUSE:

LEAKING AIRBAG, DRY ROTTED
BAD DOOR SHOCK

CORRECTION:

REMOVE ALL HARNESSSES
REMOVE SEAT FROM MACHINE
SEPARATE SEAT FROM BOTTOM
REMOVE AIRBAG
WENT TO INSTALL AIRBAG AND HAD TO REORDER DUE TO SERIAL NUMBER BREAK
INSTALL AIRBAG
REINSTALL ALL COMPONENTS IN REVERSE ORDER

REMOVE AND REPLACE DOOR SHOCK

WE REALLY APPRECIATE YOUR BUSINESS!!

JONATHAN

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
RE234989	Gas Operated Cylinder	1.00				N
RE331277	AIR SPRING	1.00				N
Miscellaneous	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
P3750	SHIPPING CHARGES	1.00				N
Labor:		Parts:	OL&M: \$0.00	Misc:	Sub-Total: \$	

4710F867401 Retail

COMPLAINT:

04 WHEEL HUB LEAKING

CAUSE:

FAILED TORQUE HUB SEAL

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JOHN DEERE 4710	4003	N04710X000229	21867W	

4710F867401 Retail**CORRECTION:**

Remove inner wheel shield and clean area.
 Drain hub oil.
 Deflate air spring and install spindle spacer.
 Jack up and support machine.
 Remove wheel and hydrostatic drive motor.
 Remove brake caliper and rotor.
 Mark hub mounting and install lifting equipment.
 Remove hub and disassemble.
 Replace wheel seal.
 Install in reverse order.
 Drive machine and verify operation.

Spoke with the customer about changing to the new style torque hub, but decided to go a different route due to the cost.
 NUT

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
AN208074	GASKET	1.00				N
TY26632	CONTACT SOL	1.00				N

OL&M Charges:

Description
 NUT FOR SEAL ON WHEEL HUB

Union

Labor:	Parts:	Misc: \$0.00	Sub-Total:
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Gen- 6 Retail**COMPLAINT:**

06 SERVICE AND GREASE MACHINE
 -FILTERS WILL BE BILLED DIRECTLY TO FRED FARMS IN ORDER TO GET THE 15% FILTER DISCOUNT

-ENGINE OIL/FILTERS
 -HYDRAULIC FILTERS
 -ENGINE AND CAB AIR FILTERS
 -HUB OIL WHICH SHOULD BE WITH MACHINE
 - DRAIN /FILL HYD. OIL

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Gen- 6 Retail
 CORRECTION:

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
AR69444	HY-GARD TM	2.00				N
TY22062	HY-GARD TM	1.00				N
TY26101	BRAKE CLEANER	1.00				N
TY6341	GREASE	1.00				N
Labor:		Parts:	OL&M: \$0.00	Misc: \$0.00	Sub-Total: \$	

Gen- 7 Retail
 COMPLAINT:

07 FEW ZERK FITTINGS ARE BROKEN OFF AND UNABLE TO GREASE

CAUSE:

BROKEN FITTINGS ON UPPER LEFT INSIDE PIVOT OF THE BOOM

CORRECTION:

EAZE OUT THE 2 BROKEN FITTINGS

ORDER INSTALL NEW ONES

ATTEMPTED TO GREASE FITTINGS

LOWER FITTING TAKES GREASE

UPPER FITTING WOULD NOT TAKE ANY GREASE

INSTALL GREASE FITTING TOOL AND TRIED TO DRIVE OIL THROUGH GREASE FITTING

STILL WOULD NOT TAKE ANY GREASE

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
JD7844	LUBRICATIO	2.00	0.94	0.94	\$1.88	N
R97588	BALL STUD	2.00	8.98	8.79	\$17.58	N
Labor:		Parts:	OL&M: \$0.00	Misc: \$0.00	Sub-Total:	

Gen- 8 Retail

COMPLAINT:

08 CHANGE HUB OIL

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JOHN DEERE 4710	4003	N04710X000229	21867W	

Gen- 8 Retail**CORRECTION:**

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
TY26372	GL-5 80-140 SYN	5.00				N
Labor:	1	Parts:	OL&M: \$0.00	Misc: \$0.00	Sub-Total:	

Diagnosis Machine10 Retail*COMPLAINT:**

09 Diagnosis Machine

-HUB OIL IS VERY CLEAN AND WHEN DISASSEMBLING THE LR TO REPLACE THE HUB SEAL AND THERE IS A SMALL STEADY STREAM OF OIL COMING INTO THE HUB.

CORRECTION:

AFTER LOOKING UP TO SEE IF WE CAN GET THE SEAL FOR REPLACEMENT WE FOUND THAT IT IS NOT AN OPTION AND YOU HAVE TO PURCHASE THE WHOLE NEW HUB ASSEMBLY. TALKED WITH THE CUSTOMER AND DECIDED AGAINST IT. IT HAS TAKEN THIS LONG FOR THE PRESSURE TO BUILD ENOUGH IN THE HUB TO CAUSE THE LEAK THAT IT SHOULD BE OKAY FOR MANY MORE HOURS.

Labor:	Parts: \$0.00	OL&M: \$0.00	Misc: \$0.00	Sub-Total:
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Gen-10 Retail**COMPLAINT:**

10 SERVICE MANAGER ADJUSTMENT

CORRECTION:

ADJUSTED HOURS AND APPLIED A \$500 SERVICE LABOR DISCOUNT TO COVER THE SHIPPING CHARGES, HUB OIL, AND THE MIXUP WITH THE HUB DRAIN PLUG.

DID NOT CHARGE FOR HAULING

Miscellaneous	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
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Gen-10 Retail S3990	SERV LBR DISCOUNT	1.00	0.00	N
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Labor: \$0.00	Parts: \$0.00	OL&M: \$0.00	Misc:	Sub-Total:
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INVOICE CONTAINS

Miscellaneous Charges:
Service Accessories

Labor:
Parts:
OL&M:
Misc:

Sales Tax: 00.00

Grand Total: \$3,559.54

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3-28-19

John Deere

Green light inspection
and repair

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JOHN DEERE 4710

N04710X000229

21867W

Diagnosis Machine10 Retail*COMPLAINT:**

01 Diagnosis Machine

-TEAR DOWN PUMP AND FIGURE OUT WHAT IT WILL TAKE TO REBUILD OR REPLACE

CORRECTION:

Tore down the pump, cleaned inside, installed seal kit, replaced the nipples, assembled pump.

Removed a couple of hoses and split the pump and reinstalled the o-ring in the proper place, installed the hoses and agitated the tank and check for leaks, was leaking at the top bleed hose, was not leaking any where else at that time.

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>	<u>List Price</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
26H77	SHAFT KEY	1.00				N
AN206043	SEAL KIT	1.00				N
AN206174	Housing	1.00				N
N206701	Nut	1.00				N
N306173	Impeller	1.00				N
HB150	1 1/2" MPT X HB	1.00				N
HB200	2" MPT X HB	1.00				N
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>List Price</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>

4710 6-27-19
 Spray Tank
 water Pump rebuild

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*Diagnosis Machine10 Retail

P3750

SHIPPING CHARGES

1.00

N

Labor:

Parts:

OL&M: \$0.00

Misc:

Sub-Total:

Miscellaneous Charges:

Service Accessories

Labor:

Parts:

OL&M:

Misc:

Sales Tax:

Grand Total: \$874.67

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4710 6-27-19
Spray Tank
water pump rebuild

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SERVICE CREDIT MEMO

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Part Number	Description	Quantity	Net Price	Extended Price
AN208074	GASKET	-1.00		
AR69444	HY-GARD TM	-2.00		
JD7844	LUBRICATIO	-2.00		
P3750	SHIPPING CHARGES	-1.00		
R97588	BALL STUD	-2.00		
RE234989	Gas Operated Cylinder	-1.00		
RE331277	AIR SPRING	-1.00		
S3990	SERV LBR DISCOUNT	-1.00		
TY22062	HY-GARD TM	-1.00		
TY26101	BRAKE CLEANER	-1.00		
TY26372	GL-5 80-140 SYN	-5.00		
TY26632	CONTACT SOL	-1.00		
TY6341	GREASE	-1.00		

Parts Value
Labor Value
Sublet Value
Other Value

Sub Total:
Sales Tax:
Total: (\$3,559.54)

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