

Invoice To Account No:

Deliver To:

SERVICE INVOICE

Invoice Number:

Invoice Date 06/10/2020

Location:

Work Order Number:

Payment Type: Finance

Page: 1 of 4

Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 310SJ

5376

1T0310SJCBD209882

Gen1- Retail**COMPLAINT:**

01 Machine will not go forward

CAUSE:

Clutch pack K2 clutch and discs burnt/warped.

CORRECTION:

Drained transmission oil.

Drained hydraulic oil.

Removed bottom guard, front and rear driveshaft.

Disconnected all electrical connectors.

Disconnected all hydraulic lines, capped and plugged,

Removed transmission dipstick and dipstick tube, Ci removed hydraulic pump.

Removed flywheel housing cover, rotated engine and removed torque converter to flywheel bolts.

placed transmission jack underneath transmission.

installed rear engine mounting bracket.

removed transmission to engine bolts and transmission mounting brackets. removed transmission from machine. removed torque converter. washed off transmission.

removed torque converter housing. removed transmission oil test port fitting from transmission. removed transmission oil filter and housing.

removed transmission case bolts and split transmission. removed clutch packs. disassembled clutch pack K2 found there to be no clutch

material left. Per DTAC case due to issues with clutch K2 clutch pack installed upgraded K2 assembly. cleaned mating surfaces of

transmission. assembled transmission with new o-rings, sealing washers, and sealant between housing and torque converter housing and

transmission case. installed transmission, and drive shafts, and hydraulic pump and all hydraulic lines and electrical connectors. filled

transmission and hydraulic oil. installed pressure tester to transmission and started machine system pressure was 298 PSI. ran machine

through all gears. machine lost all transmission pressure. removed all transmission hoses, drive shafts and wiring harness. removed

transmission and torque converter found transmission pump tabs had broken and was no longer pumping oil. removed torque converter

housing, oil filter and housing. and oil test port fitting. split transmission and removed pump. installed new pump and assemble transmission

and installed in machine connecting all hoses, wiring harness and drive shafts. connected pressure test hose and ran machine. machine had

300 PSI (Spec 290-305) washed transmission area and ran machine to check for leaks. found oil running down from the brake valve leaving

a puddle underneath transmission. removed and replaced hoses and ran machine again. oil quit running down transmission. installed all

bottom guards and floor plates, dash assembly and floor mat in cab. checked and topped off oil levels.

Pulled cab floor out and washed off machine, topped off transmission oil and ran machine, found slipping in second and forth forward.

Checked pressures and found K2 pressure low at 40 psi and system pressure is 250 psi. Swapped solenoids and it did not change

<u>PartNumber</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
62H1001	Adapter Fitting	1.00			
AT179316	SEAL	1.00			

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AT401765	MODULAR CL	1.00			
AT440858	HYDRAULIC	1.00			
AT444943	SEAL	1.00			
AT466863	OIL FILTER	1.00			
AT467975	SEAL	1.00			
F37030242	O-RING	1.00			
L153002	PISTON RIN	8.00			
PM38657	SEALANT	4.00			
R26448	O-RING	2.00			
R29463	O-RING	1.00			
T113128	SCREW	8.00			
T158742	RING	9.00			
T159566	O-RING	1.00			
T172118	PISTON RIN	2.00			
T229393	O-RING	1.00			
T229394	O-RING	1.00			
T240264	SCREW	4.00			
T242467	O-RING	2.00			
TY22028	HY-GARD TM	36.00			
TY27452	Hydraulic Oil	48.00			
UC12	SPECIAL SERV	2.00			
UC16	SPECIAL SERV	8.00			
X10343-6-6	HOSE FITTI	2.00			
X10543-6-6	HOSE FITTI	2.00			
X1J043-4-4	HOSE FITTI	1.00			
X1J943-4-4	ELBOW FITT	1.00			
X1J943-6-6	ELBOW FITT	3.00			
X1JS43-6-6	HOSE FITTI	1.00			
X471ST-4-RL	HYDRAULIC HO	20.00			
X471ST-6-RL	Bulk Hose	147.00			
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
FREIGHT	FREIGHT & SHIPPING	1.00			

Labor:

Parts:

I

OL&M: \$0.00

Misc:

Sub-Total: \$15,354.54

Retail

COMPLAINT:

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JOHN DEERE 310SJ

5376

1T0310SJCBD209882

Full multi-point machine inspection performed by qualified technician.

For inspection details see attached inspection report.

CAUSE:

CORRECTION:

Labor:	Parts:	OL&M:	Misc:	Sub-Total:
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Gen3- Retail

COMPLAINT:

03 Haul

CAUSE:

CORRECTION:

Labor:	Parts:	OL&M:	Misc:	Sub-Total:
				\$398.54

Gen4- Retail

COMPLAINT:

04 Replace hydraulic filters

CORRECTION:

Removed and replaced hydraulic oil filter.

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
AT367840	OIL FILTER	1.00			
R502513	SEAL	1.00			

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Fleet No:

JOHN DEERE 310SJ

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1T0310SJCBD209882

RE504836

OIL FILTER

1.00

N

RE505501

BLEED VALV

1.00

N

Miscellaneous Charges:

Service Accessories

Labor:

Parts: 1

OL&M:

Misc:

Sub-Total:

Please remit payments to

at the address shown on your statement.

Customer PO No:

Tax Exempt No: ON FILE

Advisor:

Finance Information

Type:

Auth No:

Merchant No:

Card No:

Bill Code:

Credit Plan:

Labor:

Parts:

OL&M:

Misc:

Sales Tax:

Total: \$16,001.51

Invoice To Account No:

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Make/Model:	Meter	Serial Number:	EQ Id:	Fleet No:
JOHN DEERE 310SJ	5503	1T0310SJCBD209882		

Retail**COMPLAINT:**

01 TORQUE CONVERTER (W/O TMC), R&R

CAUSE:**CORRECTION:**

- Began cleaning up transmission housing and removing and of the old gasket maker on the flanges
- Installed new transmission pump into the case and torqued bolts
- Installed case halves together with new gasket maker and screen installed
- Torqued bolts to correct measurment
- Installed torque converter into case and installed zip ties to keep from falling out-during install
- Put transmission on jack and strapped down
- Installed transmission back up into the machine
- Installed all bellhousing bolts
- Installed all hoses and electrical connectors
- Installed hydraulic pump and driveshafts
- Key on and have no codes
- Filled machine with oil
- Removed off of jackstands and lowered machine down
- Ran machine and topped off hydraulic and transmission oil
- Ran machine till hot going through all gears forward and reverse many times
- Machine works properly and as it should
- Re installed the floor plates and floor mat
- Machine is ready to go.

<u>PartNumber</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
14M7276	NUT	2.00			
19M7402	CAP SCREW	8.00			
19M7489	CAP SCREW	4.00			
19M7576	SCREW	1.00			
19M7662	CAP SCREW	12.00			
19M7941	CAP SCREW	2.00			
24M7239	WASHER	12.00			
24M7241	WASHER	6.00			
AT179312	PLATE	2.00			
AT179316	SEAL	1.00			
AT339923	SCREEN	1.00			

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JOHN DEERE 310SJ	5503	1T0310SJCBD209882		

AT393835	TORQUE CON	1.00			N
PM38657	SEALANT	2.00			N
R29463	O-RING	2.00			N
T113128	SCREW	4.00			N
T155324	PLATE	8.00			N
T159566	O-RING	1.00			N
T179952	WASHER	4.00			N
T229393	O-RING	1.00			N
T229394	O-RING	1.00			N
T240264	SCREW	4.00			N
T242467	O-RING	2.00			N
T250809	CAP SCREW	4.00			N
T69938	HALF CLAMP	2.00			N
TY22028	HY-GARD TM	20.00			N
TY27452	HYDRAU	50.00			N
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
FREIGHT	FREIGHT & SHIPPING	1.00			N

Labor:	Parts:	OL&M:	Misc:	Sub-Total:	\$6,435.75
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Retail

COMPLAINT:

02 TRANSMISSION CHARGE PUMP, REPLACE

CAUSE:

CORRECTION:

<u>PartNumber</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
19M8658	Screw	8.00			
AT440858	HYDRAULIC	1.00			
AT466863	OIL FILTER	1.00			
T347733	SEALING WA	8.00			

Labor:	Parts:	OL&M:	Misc:	Sub-Total:	\$3,925.45
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JOHN DEERE 310SJ	5503	1T0310SJCBD209882		

Gen3- Retail

COMPLAINT:

03 Hauling

CORRECTION:

Labor:	Parts:	OL&M:	Misc:	Sub-Total:	\$503.75
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Gen1- Retail

COMPLAINT:

04 Machine will not move when put in gear

CAUSE:

CORRECTION:

Traveled to machine and found that the park brake would not release, it acts like there is no pressure. Pulled front drive line and manually released park brake, pulled it a half mile to the road so that it could get loaded on a truck.

Diagnosed the code for the park brake not disengaged when commanded, after checking oil, found it odd that the oil level did not drop from no engine running to engine running. The next step was to check transmission pressure, however since the port is complicated to get to, went to the flow test, which would show me not only flow but pressure as well, found absolutely zero flow, did not even get the dummy oil filter filled with oil. Transmission needs to be disassembled to see what the cause of the no flow is.

- T617
- Began by lifting machine to proper height off the ground
 - Drained hydraulic and transmission oil
 - Began removing hydraulic pump and driveshaft
 - Marked and removed all hydraulic lines and electrical connectors
 - Removed lower bell housing bolts
 - Put transmission jack under and strapped down
 - Removed transmission motor mounts
 - Removed upper bellhousing bolts
 - Removed transmission and torque converter
 - Torque converter was stuck badly on transmission
 - Removed torque converter and found that the nose had broken off and the pieces were jammed into the transmission pump.
 - Split case and removed transmission pump and disassembled

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JOHN DEERE 310SJ	5503	1T0310SJCBD209882		

- Transmission will need cleaned up, new transmission pump installed along with a new torque converter

Labor:	Parts:	OL&M:	Misc:	Sub-Total:
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/GOLD PNT INSPECTION Retail

COMPLAINT:

Full multi-point machine inspection performed by qualified technician.

For Inspection details see attached inspection report.

CAUSE:

CORRECTION:

Miscellaneous Charges:

Service Accessories

Labor:	Parts:	OL&M:	Misc:	Sub-Total:
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Please remit payments to at the address shown on your monthly statement.

Customer PO No:
 Tax Exempt No:
 Advisor:

Labor:	
Parts:	
OL&M:	
Misc:	
Sales Tax:	
Total:	\$11,014.95