

SERVICE INVOICE

Invoice Number:	[REDACTED]
Invoice Date:	04/26/2023
Location:	[REDACTED]
Work Order Number:	[REDACTED]
Payment Type:	[REDACTED]

Page: 1 of 3

Make/Model:	Meter	Serial Number:	EQ Id:	Fleet No:
JOHN DEERE 6170R	4686	1RW6170RJEA012222	1RW6170RJEA012222	

/Diag-Hydraulics Retail

COMPLAINT:

01 3 pt not working

CAUSE:

CORRECTION:

Greased the three point pivot shaft.

Couldn't get the arms to come down.

Used a forklift and weight to get the three point down.

Hooked the tractor to a planter, lubed the grease zerk's good.

Raised planter up and down 25-30 times.

Removed from planter and tried to raise and lower without weight on.

Three point wouldn't come down unless weighted.

It was suggested the, cylinders be removed to verify it wasn't a cylinder issue.

Removed as suggested and verified the three point still doesn't move on it own.

Removed the hydraulic valves from three point mount.

Removed the three point assembly from the tractor.

Removed draft arms from the shaft.

Removed position sensor from center housing.

Removed position sensor gear from shaft.

Shaft was seized in the housing.

Tried to knock it loose with hammer and it wouldn't budge.

Used air hammer to vibrated the housing around the bushings.

Shaft began to move after some time and encouragement.

Removed the shaft completely from the housing.

Removed the seals and bushings from housing.

Cleaned inside of housing thoroughly.

Installed new bushings, and seals.

Buffed and polished the shaft.

Assembled in reverse order, greased thoroughly.

Installed new orings onto hoses and supply lines.

Connected the arms and tested the three point.

It will move on it's own now.

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
19M7300	M6X10 BOLT	2.00			
AL175214	Potentiometer	1.00			
AL222881	LOCK	1.00			
JD7781	LUBRICATIO	2.00			

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Page: of 3

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JOHN DEERE 6170R	4686	1RW6170RJEA012222	1RW6170RJEA012222	

L102324	SEAL	1.00
L165871	Washer	2.00
L165872	Seal	2.00
L165873	Bushing	2.00
T59014	O-RING	1.00
T77932	O-RING	3.00
TY26633	DEGREASING S	4.00
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>
P3750	FREIGHT	1.00

/Diag-Steering/Brake Retail

COMPLAINT:

02 Diagnose steering codes

CAUSE:

CORRECTION:

Connected the tractor to service advisor.

Checked for software updates.

Updated the ECU, CRU, MTG, CABC, CHAS, CSMS, ETCC, FCCD, ROOF, SBBC, VTV.

Once all software was updated the steering angle sensor malfunction could be completed.

The wiring harness was bad, there was previously repaired damage to harness.

Found new damage to the harness close to old damage.

Removed the harness and replaced it.

Found that the sensor was also bad, after harness replacement.

Installed a new sensor, and connected it to harness.

Prepared to do sensor calibration.

Couldn't get the steering codes to clear so the cal, cold be done.

Removed the sensor and rotated it backwards 180 degrees.

Reinstalled the sensor and was able to clear previous code.

Entered calibration mode using service advisor and successfully calibrated the sensor.

Took tractor outside and drove it around steering back and forth and verified no steering codes.

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
AL206934	WIRING HAR	1.00			

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Page: of 3

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AL206934	WIRING HAR	1.00	<input type="text"/>		

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Page: 3 of 3

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JOHN DEERE 6170R	4685	1RW6170RJEA012222	1RW6170RJEA012222	

Miscellaneous Charges:

Labor:
Parts:
OL&M:
/Enviro:
Hauling:
ales Tax:

Total: \$4,733.41