

# SERVICE INVOICE

Invoice Number: 10818221  
 Invoice Date: 1/24/2020  
 Location: 04  
 Work Order Number: 324822  
 Payment Type: [REDACTED]  
 Page: 1 of 5

JOHN DEERE 9770 sts Meter: 2467 Serial Number: 1H09770SJB0743322 Eq ID: LLC743322 Fleet No:

/SERV Retail

COMPLAINT:

01 CHECK OR RECORD SERIAL NUMBER, AND GET HOURS!!  
 SERVICE CALL: HELP MOVE COMBINE OFF OF ROAD

CORRECTION:

went to combine had phillips county shut off road. installed chains in a v pattern to each front corner with clevis then to tractor with rope. pulled combine with tractor while using turning brakes to steer combine. pulled it half mile into wheat stub field for truck to pick up. inspected engine for repairs talked with customer and decided to bring to store with landmark truck. once truck brought combine to store helped truck unload combine and pushed combine in shop with fork lift.

24 miles total.

Part Number  
TY5020

Description  
TAPE

Quantity  
1.00

Taxed Ind  
N

Sub-Total: \$644.39

/9770STSG1099190 Retail

COMPLAINT:

02 ENGINE, R&R

CORRECTION:

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Remove engine components to prepare engine for removal. pulled combine out side with fork lift used service truck crane to remove engine from combine. installed engine on stand for inspection to make estimate for customer. made estimates on how to fix combine for customer. review estimate with customer on what way would be best way to fix engine. after customer decided to order remain engine had to talk with parts and john deere parts to make sure engine was available to order and how to order along with what all came with engine and what extra parts would be needed. talked with customer again about what was learned and how to proceed. customer decided to go with remain engine. pulled combine outside with forklift while waiting for parts to show up. once parts showed up pushed combine inside to prepare combine for new engine replacement by installing new input seal in engine gear case with new house per notes in parts adviser. changed all air to air boots as well with new boots new clamps. washed all air intake components out free of dirt then blew dry with shop air. After getting new engine. disassembled all needed components off old engine. components were fan drive, fly wheel, new fly wheel drive hub, pilot bearing for fly wheel, starter, and engine drive pulleys were replaced with new. pulled combine outside with forklift used service truck crane to set engine in place as needed. pushed combine inside shop for all components to be installed on engine. installed a new complete engine wiring harness on engine to ecu old harness had bad spots in wires in multiple places. during assemble found suction line for a/c system had bad rubes in it but not wore through wrapped a/c line in conduit over bad spots to protect line from leaks. filled engine with new break in oil to spec. filled cooling system with new coolant cool guard 2 preformed a coolant bleed on cooling system to release air from system. then preformed a ECU programing to new engine using steps in DTAC case 103030. made DTAC case 922688 to inform DTAC i had preformed a engine replacement on this machine with using old ECU had them change the software payload for the ECU to match the new engine in combine. once they did this i reprogrammed the old ECU to the new engine. installed new air filters in air intake. cleaned fuel bowl and primed fuel system. cranked over engine to charge engine oil pressure. started engine checked for proper engine performance with service adviser clearing all codes on combine. checked engine for leaks found none. operated engine under full load all ok. rechecked for codes found none all ok. when all done prepared old engine to be shipped back to john deere for core on their stand.

Part Number	Description	Quantity	used Ind
14M7296	FLANGE NUT	1.00	N
14M7298	FLANGE NUT	2.00	N
19M7784	SCREW	9.00	N
19M7835	SCREW	2.00	N
19M7863	SCREW M6 X 25 GR 10.9	8.00	N
19M7867	SCREW M8 X 25 GR 10.9	2.00	N
24H1291	WASHER, FLAT	1.00	N
AH168456	SPLINED CO	1.00	N
AH209644	SEAL	1.00	N
AH212295	FILTER ELEME	1.00	N
AH222225	FILTER ELEME	1.00	N

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AT13740	DRAIN VALVE	1.00
AT173610	FILLER CAP	1.00
H125356	GASKET	1.00
H148769	HOUSING	1.00
H213353	V-BELT	1.00
HXE32806	V-BELT	1.00
JD7147	BALL BEARI	1.00
PM37463	LIQUID GAS	1.00
R206883	WASHER	1.00
R42729	WASHER	6.00
R519654	SCREW	6.00
R53108	GASKET	1.00
R57725	SCREW	6.00
RE21790	ELBOW FITTIN	1.00
RE547751	Wiring Harness	1.00
RE548027	BELT TENS	1.00
SE501899	Diesel Engine Reman	1.00
TY22470	CLAMP	1.00
TY26661	Break-In Plus Oil 10W30	3.00
TY26663	Break-In Plus Oil 10W30	1.00
U13639	O-RING	1.00

Miscellaneous Description  
 PT3750 FREIGHT JD - PARTS PBURG  
 SV3970 LABOR DISC ALLOWED - SERV PBURG

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JOHN DEERE 9770 sts

Meter:

2467

Serial Number:

1H09770SJB0743322

Eq ID:

LLC743322

Fleet No:

/9770STSG1099190 Retail  
SV5320

POLICY ADJ - SERV PBURG

Sub-Total: \$33,611.84

/9770STSG1041692 Retail

COMPLAINT:

03 CYLINDER HEAD, R&R OR REPLACE HEAD GASKET.

CHECK HEAD FOR DAMAGE.

REMOVE AND REPLACE RADIATOR FOR REPAIR

CORRECTION:

CHECK HEAD FOR DAMAGE.

removed old engine head from engine after engine was removed from combine. took head off leaving as many pieces attached as possible.

once head was off inspected head for damage. showed customer what was found and explained piston number six had bumped top of head in some locations. showed customer the measurements found on head. talked with customer about not reusing head. customer decided to not use old head. installed old head on old engine along with all parts not needed for new engine.

REMOVE AND REPLACE RADIATOR FOR REPAIR

showed customer radiator and made price estimate for just parts for new radiator. customer decided to have radiator removed and he would take it to a radiator shop on his own for repair. performed radiator removal for combine. loaded radiator for customer. once customer brought back radiator i unloaded it for customer using forklift. installed radiator back in combine for customer with new upper and lower hoses using old overflow hoses. installed all shielding and air seal around radiator as needed.

Part Number	Description
AH170895	CLAMP
AH213416	HOSE
AH213418	Hose
H168359	HOSE
H218884	HOSE
RE52702	CLAMP
RE52703	HOSE CLAMP
TY22417	BULK HOSE
TY26101	BRAKE/PARTS CLEANER

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TY26576

COOL-GARD TM

TY27086

Guard

Miscellaneous  
PT3750

Description  
FREIGHT JD - PARTS PBURG

Sub-Total: \$3,729.66

Grand Total: \$37,985.89