



Invoice To Account No: 3644

## SERVICE INVOICE

 	Invoice Number:	2210812		
	Invoice Date:	8/30/2022		
	Location:	1		
	Work Order Number:	361367		
	Payment Type:	Finance		
Page:		1 of 8		
Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 8770	6923	RW8770H004288	12339C	

/Gen-Engine Retail

COMPLAINT:

01 Engine Repairs

Engine is making a popping sound.  
Exhaust leak coming from exhaust manifold

### CAUSE:

Found exhaust manifold leaking badly. Exhaust ports on the cylinder head were warp causing the exhaust leak. Removed cylinder. Notice cylinder 5 piston was damage and exhaust valve on cylinder 5 was damage.

### CORRECTION:

Engine Repairs

Attempted to verify customer complaint. Found exhaust manifold was leaking. Sent machine to town for further repairs.

Performed engine overhaul;

Cleaned engine block. R&R pistons heads. R&R cylinder sleeves. R&R rod bolts. R&R cylinder head bolts. R&R main bearings. R&R rod bearings. R&R oil pan gasket. R&R water pump. R&R water manifold gaskets. R&R oil cooler gaskets. R&R rear main seal. R&R front crank seal. R&R timing cover gasket. R&R front crank pulley drive. R&R intake manifold gasket. R&R exhaust manifold. R&R exhaust manifold gaskets. R&R valve cover gasket. R&R Starter. Welded exhaust. R&R exhaust clamps. R&R charge cooler clamps and boots. Reconditioned engine harness and repaired electrical wires. R&R cam sensor. R&R fan bolts. Cleaned and flushed engine radiator. R&R A/C pressure switch o ring and recharged air conditioning. R&R engine oil pan plug. R&R oil pump o rings. R&R thermostat gasket. R&R water manifold o rings. R&R cylinder head gasket. R&R fuel filter. R&R fuel injectors. R&R fuel lines seals. R&R oil filter and added break in oil. R&R coolant filter.

Part Number	Description	Quantity	List Price	Net Price	Extended Price	Taxed Ind
11M7086	2.5 X 50MM	4.00				
12H303	5/16" LOCK WASHER	2.00				
12H304	3/8" LOCK WASHER	6.00				
14M7274	10MM HEX NUT	4.00				
19H1781	1/2" X 3-1/2" BOLT	1.00				
19H1815	1/2 X 1.25 BOLT	4.00				
19H1900	5/16X3/4	2.00				
19H1905	5/16 X 1 BOLT	2.00				

CONTINUED ON NEXT PAGE->



P/V Phone:

Make/Model:

JOHN DEERE 8770

Meter:

7212

Serial Number:

RW8770H004288

Eq I

1233

# **/GEN AUTOTRAC Retail** **DIAGNOSE AND REPAIR AUTOTRAC/AMS**

Instruction were inaccurate for this application  
 Modify the kit to the tractor

Drilled holes to mount the hydraulic components  
 Had 10 hydraulic made to the proper length.  
 Routed hydraulic hoses to there proper location  
 Remove engine side panel to access steering valve and metering valve  
 Install hydraulic adapter fittings onto the metering valve to the auto trac hydraulic system  
 New hydraulic lines had to be made to fit the auto trac application  
 Routed and adjusted electrical harness.  
 Remove operator right hand panels and back panels to access harness and connect to Auto trac  
 Remove unwanted harness and clean up and organize electrical harness.  
 Repair a few wires connections  
 Reinstall panels  
 Calibrated Auto Trac  
 NUTS,BOLTS,SCREWS

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>
14M7452	LOCK NUT	5.00	
19M7815	12M X 60 FLANG	2.00	
19M7897	M8 X 35 FL.	5.00	
19M8343	10-1.50 X 120MM 10.9 Bolt	1.00	
N189220	TIE BAND 750	4.00	
R213663	CLAMP	6.00	
R44302	7" ZIP TIE BAND	96.00	
TY22330	3/4 HEAT HOSE	2.00	
X10643-6-6	6G-6FJX	5.00	
X1J543-8-8	Elbow Fitting	1.00	
X1J743-8-8	8G-8FFORX45	3.00	
X1JC43-10-8	8G-10FFORX	1.00	
X1JC43-4-4	4G-4FFORX	2.00	