

# 1989 Kenworth T600

Inv Date: 2/07/2018

VIN: 1XKADB9X8KJ531288

Service Writer: Mandy Schulte

Engine: CAT 3406B

Status: Posted

Trans:

Driver:

ODO In: 66155 Out: 66155

Mfg. Date: 03/1989

Color: White/Blue

Unit # 89

PO #

Vehicle Problems	Requests for Service	Services Performed	Qty	Price	Ext
RO # 9095: Inspection Type: Complimentary Truck Inspection For details go to: <a href="http://tinyurl.com/y8pwa624">http://tinyurl.com/y8pwa624</a> Technician: Shane Gray					0.00
Labor Service - Complimentary Inspection. SG					0.00

Customer states that: blowing white smoke, possibly an injector, running rough.

Labor Service - Truck came in with a pronounced miss and popping noise. Cracked fuel supply lines individually to isolate which cylinder is affected. Found #4 not making any change in the sound of the engine running. Removed air filter housing and tubes for access. Removed valve covers and jake risers. Removed fuel supply tubes. Removed rocker assemblies. Removed all 6 nozzle assemblies. Pressurized each cylinder individually with shop air to determine if this condition was valve/cylinder related. Cylinder #4 would hold pressure and was losing air pressure through the exhaust valves. Head needs to come off for further confirmation on damage. SG

New

Brake Clean

Labor Service - \*Customer is supplying his own cylinder head\* Drained coolant. Disassembled all accessories necessary to remove cylinder head. Removed cylinder head. Found exhaust valve seat on #4 cylinder gone & had destroyed #4 piston & liner. Ordered parts. Received new head supplied by owner. Cleaned off protective coating. Swapped all fittings, sensors, & brackets from old to new. Removed thermostat housing cleaned mounting surfaces. Installed new thermostat and seal into the housing. Installed to the new head. Removed the turbo and exhaust manifold. Cleaned and inspected both the turbo and manifold ok. Installed the manifold using new studs, nuts, gaskets, and washers. Torqued all to manufacturer spec. Installed the turbo using new mounting hardware and gasket. Torqued all to manufacturer spec. Installed new cylinder pack and rod bearing torquing to manufacturer spec. Installed shim, orings, new spacer plate, and water grommets. Positioned cylinder head near engine and installed head gasket. Set cylinder head into place. Torqued to manufacturer spec. Installed push tubes. Installed fuel lines and brackets. Installed the air compressor and all lines. Installed the fuel filter base. Reassembled the rest of the accessories on the driver side that were removed for this job. Reassembled turbo oil lines and exhaust pipe and bracket. Installed stiffening plate, sump tubes, and oil pan. Connected oil temp harness. Installed the nozzles & torqued to manufacturer spec. Installed the rocker assemblies & torqued to man'f spec. Pinned engine on TDC & adjusted all valves to man'f spec. Installed the fuel lines & torqued to man'f spec. Installed the jakes & torqued to manufacturer spec. Adjusted jakes to manufacturer spec. Installed jake risers & valve covers. Reassembled remaining hoses, lines, harnesses, & brackets as needed. Reassembled air filter housing & tubes. Filled engine w oil. Pumped coolant back in & topped off w 50/50 green coolant. Started truck test ran. Painted engine. SG

New

New

Core

New

New

Gasket Kit -1 year part warranty

Cylinder Pack & Rod bearing -1 year part warranty

Core Received

Spacer plate -1 year part warranty

Seal, O'ring

New	Seal, O'ring
New	Brake Clean
New	Hose, 90deg
New	Gasket, air compressor mounting
New	Thermostat Regulator, 185 -1 year part warranty
New	CAT Lock Nut
New	Gasket, oil pan
New	Rod bearing
New	Spacer
New	Stud, exhaust manifold
New	Washer
New	Stud
Sublet	pop test injector
New	Gasket
New	Air governor gasket
New	Intake Bridge Assembly
New	Clamp, V-band 5"
New	Carbon seal
Sublet	labor for carbon seals
New	Brake Clean
New	CAT yellow Paint
New	Clamp, #20 Hose
New	3/8 x 1, USS GR8 Hex cap screw, course
New	SAE Flatwasher Gr 8 3/8
New	22-18 Red Butt Conn
New	3/8 x 16 USS GR8 Nylon locknut
New	3/8 x 1-1/2, USS GR8 Hex cap screw, course
New	3/8 x 1-1/4, USS GR8 Hex cap screw, course
New	5/16 x 1-1/2, USS GR8 Hex cap screw, course
New	SAE Flatwasher GR8 5/16
New	Filter, CAT Oil
New	Shell Rotella 15w/40
New	50/50 Green antifreeze
New	CAT Gray Seal

**Invoice Summary**

Parts	3,558.92
Labor	2,881.42
Sublet	90.00
Supply Charge	144.07
Add On Charges	35.00

Sub Total	6,709.41
Sales Tax (NE)	277.72

<b>Total</b>	<b>6,987.13</b>
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**INVOICE**      **W 134654****Date**                      02/15/18**Date Open**              02/08/18**Page:**    1 of    1**Ship To :**

Written By PARTS01		Terms CHG		Time 10:36:28		Customer Po #		Promised		Phone		Ship Via			
Unit #		Plate #		Year		Make		Model		Mileage/Hrs 0/0.0		VIN		Engine	
Qty		Description										Price		Amount	
1.000		CAT0R3674 CYLINDER HEAD													
1.000		CORCAT0R3674 CORE CYLINDER HEAD													

Parts.....                      2300.00

Cores.....                      1735.58

**TOTAL**                      **4035.58**