

## ENGINE MECHANICAL - EM

### ZD30DDTi Intake Manifold

The Intake Manifold as shown right is mounted on the RH side of the Cylinder Head.

An electrically operated Air Intake Control Valve is utilised & the Swirl Valves have been incorporated inside the intake manifold.

#### Electric Throttle Control Actuator:

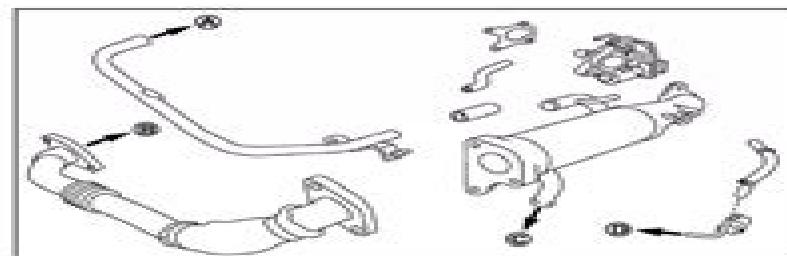
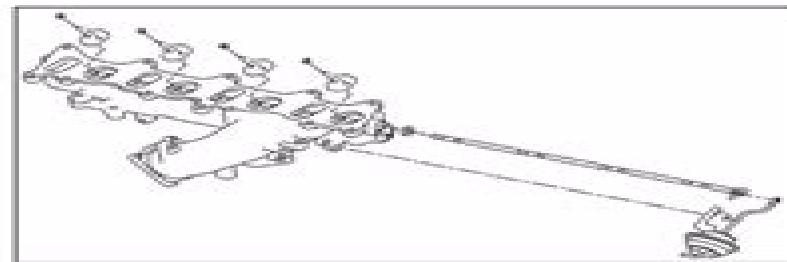
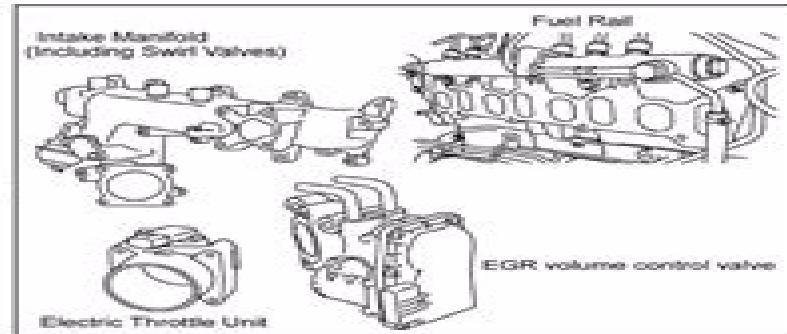
On the previous ZD engine as well as the non DPF YD25 engine, the Air Intake Control valve was vacuum controlled. Now on the new ZD30 CRD engine, the valve has the same purpose as previous, however it is electrically operated. Its operation is very much the same as a ETC unit found on many petrol engines.

The Throttle valve is fully opened when the engine is running. The valve is closed only to perform smooth engine stop when the ignition switch is turned OFF. A feedback sensor (Throttle Position Sensor – TPS) is also installed to ensure the ECM can detect the throttle plates position.

#### (Vacuum operated) Swirl Valves:

The swirl control valve is installed inside the manifold assembly. While idling and during low engine speed operation, the swirl control valve closes, thus the velocity of the air in the intake passage increases to produce a swirl (rush of air to promote cleaner burning when the fuel is injected into the air) into the combustion chamber. Once the engine speed increases to a certain speed, the valves open to allow more air to enter the engine.

Further information regarding the components shown right can be found in section EM & EC of the Service Manual.



### ZD30DDTi Exhaust Gas Recirculation (EGR) System

Major changes have occurred with the EGR system on the new ZD30 CRD engine.

The EGR volume control valve continues to be electrically controlled by the ECM, however it has a throttle valve arrangement & works in a similar way to an ETC unit found on current petrol engines.

The Pipe linking the exhaust manifold to the EGR control valve assembly is also water cooled as it is on R51 / D40 YD25 A/T models.

Further information regarding the components shown right can be found in section EM & EC of the Service Manual.

# Zd30 Engine Parts Manual

**Kaiser Jeep Corporation. Industrial  
Engine Division**

## Zd30 Engine Parts Manual:

**Diesel Engine Specification Manual** ,1984      **Parts Manual** Caterpillar Inc. Peoria, Ill.,1992      *Parts Manual*  
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**Maintenance manual and spare parts list for the 14hp-20hp diesel engine** Armstrong Siddeley Motors  
Limited,1951      *Diesel Engine Truck Shop Manual* ,1990      **Parts Manual** Caterpillar Inc. Peoria, Ill.,1993      *Detroit*  
*Diesel Engine Division Parts Book and Price List for Marine Models* ,1947      Parts List for Model 8-567 ATS General Motors  
Diesel Engines ,      *Diesel engine* ,1970      **Parts Catalog** General Motors Corporation. Detroit Diesel Allison Division,1979  
**Diesel Engine Manual** Perry O. Black,1964      **Service Manual** ,1991      *John Deere 320 Tractor Parts Manual*  
,1963-12-15      **Detroit Diesel Engines** General Motors Corporation,General Motors Corporation. Detroit Diesel Engine  
Division,1981      **Instruction Book and Parts List, 275 H.P. Cooper Bessemer Type FP-6-DR Diesel Engine**  
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dec 16 2011 pour a capful of 2stroke oil down the carbs and start it up then open up the oil pump by hand to fill the lines fast watch the oil lines as you do this i have found a lot of 580 720s with bad one way valves

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mar 25 2012 1 i read all through the manual about the oil pump adjustments anytime throttle cable adjustments are made or any other major adjustment while thinking about this i would like to explain my thoughts and see if anyone really knows for sure

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apr 3 2018 grab the oil pump lever and have someone move the throttles to make sure the lever moves you need a mirror and a light to line up the lever with the mark on the oil pump does anyone still need pics of oil line setup i have a 99 speedster with twin 787 s still running the oil injection

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jun 30 2009 2000 sea doo service manual page 07 03 5 is a good opicture of the alignment of the 787 rfi oil pump as this oil pump is very similiar to the 947 oil pumps it gives you a very good idea of where to look for alignment marks on the oil pump and oil pump drum

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sep 19 2013 you don t need to pull the pump to check or change the oil 1 remove the steering nozzle 2 to check the oil remove the fill plug fill to overflowing replace the fill plug 3 to change the oil remove the cone 4 i use an empty 12 pack fold it up stick the cardboard between the pump and the ride plate let the oil drain into a container 5

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jun 5 2014 just take off the reverse linkage step 3 the steering linkage step 5 remove the 4 bolts step 7 and it will all come off together when reinstalling the pump cone blue loctite is a must on the bolts also put loctite 518 on and around the o ring before filling with oil the pump should be pressure tested to 10 psi for 5 minutes with

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subsection 02 oil injection pump f07f0wb 1 2 1 oil pump cable 2 adjustment nut 947 di engines loosen jam nut and turn cable adjustment nut to obtain pump mark alignment refer to following photos the adjustment is located under the throttle body bracket 1 oil pump cable adjustment 2 throttle cable adjust the cable to the rich position

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