

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.

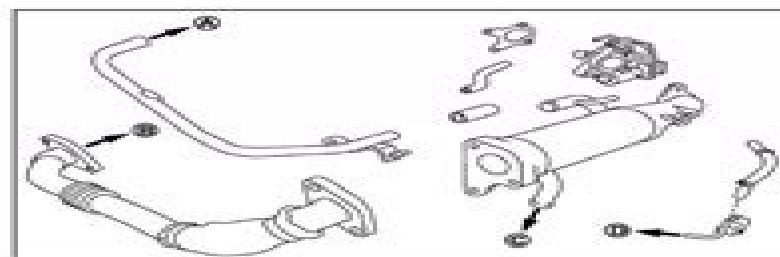


ZD30DDTi Exhaust Gas Recirculation (EGR) System

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.



A, C, D: Engine Coolant

B: Exhaust Gases

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* Caterpillar Inc. Peoria, Ill.,1994 **'Jeep' Industrial Engine Manual and Parts List** Kaiser Jeep Corporation. Industrial Engine Division,1965 **Renewal Parts Manual for 600 Series Stationary Diesel Engines** Baldwin Locomotive Works,1945 **Parts Catalog and Parts Guide, Chrysler Engine, Small Engine Parts** Chrysler Corporation,John Deere & Company,Moline (Ill.),1973 **Instruction Manual** General Motors Corporation. Detroit Diesel Engine Division,1944

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** Cooper-Bessemer Corporation,1950 Diesel Engine Manual Perry O. Black,1982

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