

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.

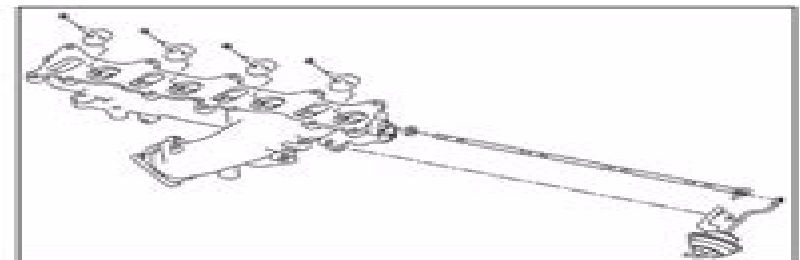
ZD30DDTi Exhaust Gas Recirculation (EGR) System

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.



A, C, D: Engine Coolant

B: Exhaust Gases

Nissan Zd30 Manual En Francer

Robert R. Redfield



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Nissan Patrol Motor Co. Ltd Nissan,1977 *Nissan Nissan (Tokyo),* Nissan Nissan Europe, Nissan Patrol Model 160 Series Owner's Manual ,1984 **Nissan Owners Workshop Manual** Peter G. Strasman,1986 **Service Manual** ,1975 Nissan Model 160 & 61 Series Nissan Motor Co., Ltd,1980 **Nissan Model R 30 Series: Service manual** Nissan Motor Company,1983 **Nissan Sunny Owners Workshop Manual** Ian Coomber,1991 *Nissan Audio Manual* Nissan Europe,1998 *Nissan Cedric Service Manual* Nissan Jidōsha Kabushiki Kaisha,1966* **Nissan Patrol and Ford Maverick Australian Automotive Repair Manual** Tim Imhoff,John Harold Haynes,2001-01-01 Nissan Patrol Series GQ 3 0 4 2 petrol 4 2 diesel Ford Maverick Series DA Petrol diesel models Does NOT cover UK Ford Maverick or Nissan Terrano **Clymer Nissan 2- and 4-wheel Drive Gas & Diesel Shop Manual** Kalton C. Lahue,Clymer Publications,1989 **Nissan Maxima Model J30 Series** Nissan Jidōsha Kabushiki Kaisha,1989 **Nissan Model 910 Series Service Manual** Nissan Motor Co., Ltd,1980 **Nissan Cedric Service Manual** Nissan Jidōsha Kabushiki Kaisha,1968* **Nissan Truck** Nissan Jidōsha Kabushiki Kaisha,1985 *Service Manual Model 3N71B* ,196? **Nissan Datsun Service Manual Model SD22 and SD33 Diesel Engine** ,1980 Nissan Model S12 Series Service Manual Nissan Jidōsha Kabushiki Kaisha. Export Service Department,1984

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