

ENGINE MECHANICAL - EM

ZD30DDTi Glow Plugs

Once again the Glow system construction & operation is near identical to the previous ZD Engine.

It is necessary to remove the Glow Plugs in order to measure the Engine Compression.

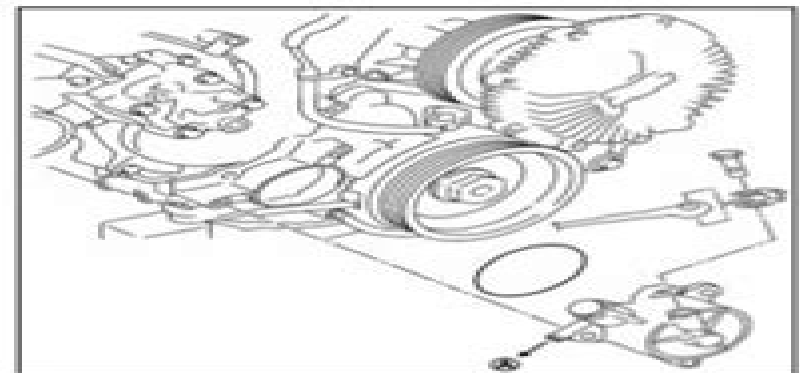
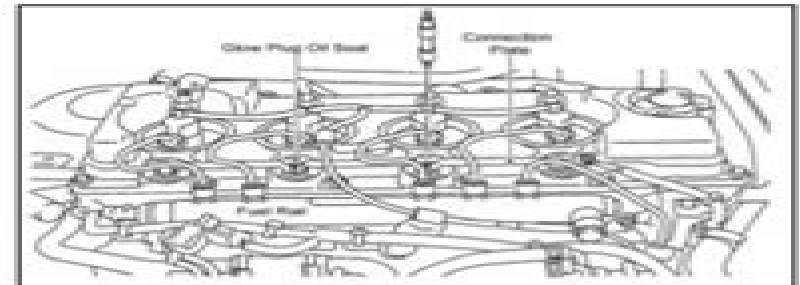
NOTE: The same SST adapter for measuring compression is carried over from the previous ZD30 engine. SST# ED19600620 or ED19600620AUS. Refer to section EM of the Service Manual for more information on the removal process of the Glow Plugs as well as checking Engine Compression. Section EC of the Service Manual discusses the operation of the Glow Plugs.

ZD30DDTi Vacuum Pump

The Vacuum Pump continues to be engine driven & is located on the RH side of the engine.

NOTE:

As part of a "Lack of Power" trouble diagnosis, ALWAYS ensure that the vacuum pump is functioning OK. If the vacuum pump is worn & it is not providing sufficient vacuum, the turbo will not operate properly. As a result the engine will lack power due to lack of Turbo Boost.



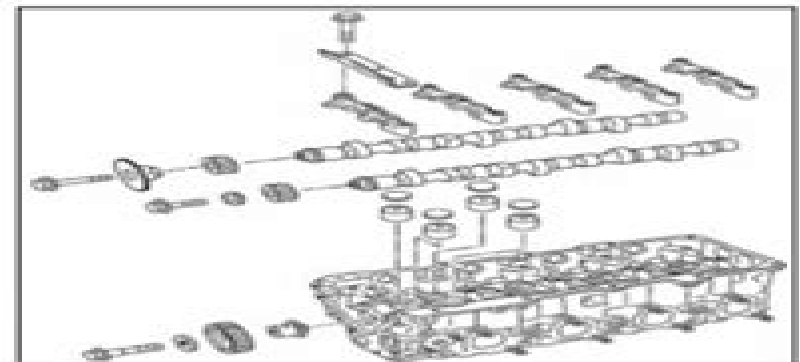
ZD30DDTi Camshafts & Cyl Head

The construction of the Cylinder Head is similar to that on the previous ZD Engine. However the Camshaft Signal Plate & sensor (CMPS) is located at the front of the head. (The previous ZD CMPS is located within the Injector Pump.)

The valves (like the previous ZD as well as the YD engine) are shim adjustable. However valve clearance adjustment is NOT required unless there is a problem. (See over page for more detail)

Refer to section EM of the Service Manual for more information on the components shown right.

Refer to **STB EM 04-002** for information regarding some pre CRD ZD30 engines that have a 1 piece valve lifter assembly. (No shims)



Patrol Zd30ddti Service Manual

Katrin Zwirglmaier



Patrol Zd30ddti Service Manual:

Patrol, GU Series, ZD30 Turbo Diesel Engine Les Garam, Jonathan Eagleton, 2002 **Nissan Patrol 1998 to 2009 Vehicle Repair Manual** Max Ellery, 2009-12-15 Nissan Patrol 1998 to 2009 Diesel and Petrol Gasoline Engines including Turbo with World Wide Spec s This manual has over 500 pages It has step by step instructions in every chapter Covering both model produced the Station Wagons and tray models Engine chapters The book covers all diesel engines RD28 TD42 and ZD30 including the common rail engine turbocharged engines are covered All petrol gasoline engines TB42 TB45 and TB48 the TB42 was an option in some countries in the first few years of production Chapters are full of step by step instructions plus plenty of photographs and line illustrations to give the reader explicit detail suitable for everyone regardless of whether you require minor engine work or a major rebuild **Nissan Patrol 1998 to 2009 Vehicle Repair Manual** Max Ellery, 2009-12-15 Nissan Patrol 1998 to 2009 Diesel and Petrol Gasoline Engines including Turbo with World Wide Spec s This manual has over 500 pages It has step by step instructions in every chapter Covering both model produced the Station Wagons and tray models Engine chapters The book covers all diesel engines RD28 TD42 and ZD30 including the common rail engine turbocharged engines are covered All petrol gasoline engines TB42 TB45 and TB48 the TB42 was an option in some countries in the first few years of production Chapters are full of step by step instructions plus plenty of photographs and line illustrations to give the reader explicit detail suitable for everyone regardless of whether you require minor engine work or a major rebuild Nissan Patrol Motor Co. Ltd Nissan, 1977 *Service Manual* , 1975 **Nissan Patrol Model Y60 Series, Supplement I** , 1989 Nissan Patrol Model Y60 Series, Supplement II , 1989 **Nissan Patrol** , 1984 **Nissan Patrol Model Y60 Series, Supplement IV** , 1993 Nissan Patrol service manual , *Nissan Patrol Model Y60 Series, Supplement III* , 1991 **Nissan Patrol Ford Maverick 2. 8 and 4. 2 Litre Diesel 1988-1997** Universal Publishers, 1993-04-01 *Nissan Patrol MQ Series 1980-1987* Universal Publishers, 1987-07-01 **Nissan Patrol, Ford Maverick Diesel 1988-1993** , 1993-07 Nissan Patrol Y61 service manual Nissan Jidōsha Kabushiki Kaisha, 1997 **Patrol Y61/GU Series 1998-2014** , 2014 Nissan Patrol, Ford Maverick, Diesel 1988-1993 Gregory's Scientific Publications, 1995 *Engine Service Manual* , 1986 **Series 92 Service Manual** Detroit Diesel Corporation, 1988 **Service Manual** Diamond T Motor Car Company. Service Dept, 1948

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