

Harrop Supercharger Kit – VK56 V8 - Y62 Nissan Patrol

Harrop engineering develops and manufactures premium supercharger kits in Melbourne, Australia. Through 60 years of automotive performance Engineering, Harrop Engineering have successfully manufactured and supplied Superchargers to Automotive OEM programmes including TRD, Lotus Cars and Ford Australia.

Harrop Engineering is certified to meet ISO 9001 standards of quality. OEM Quality, performance and vehicle integration are the foundation of Harrop Supercharger kits.

Overview:

Harrop TVS2300 FDFI Supercharger Kit for Y62 Nissan Patrol, 5.6 Litre VVEL V8 petrol engines.

VK56VD:

DFI2300 Series 1-2: 99-KSM43K24

DFI2300 Series 3-4: 99-KSM43K26

DFI2650 Series 1-2: 99-KSM53K24

DFI2650 Series 3-4: 99-KSM53K26

VK56DE (Port injection):

DFI2300: 99-KSM48K27

Includes all components required for installation onto a standard Y62 Patrol:

- Supercharger intake manifold including charge-air intercooler
- Harrop TVS2300 FDFI Supercharger with Y62 specific inlet cover
- FEAD idler brackets, Supercharger drive belt
- Plug-in wiring looms for all necessary engine sensors – IAT breakout from MAF sensor, Throttle loom extension and Intercooler pump loom
- Front-mount intercooler radiator, Electric Intercooler pump, Coolant Reservoir and moulded hoses
- Interfaces with OE throttle body, intake tube and FEAD
- Retains all factory ancillaries including A/C, Viscous engine fan, Power Steering etc.
- Detailed installation instructions

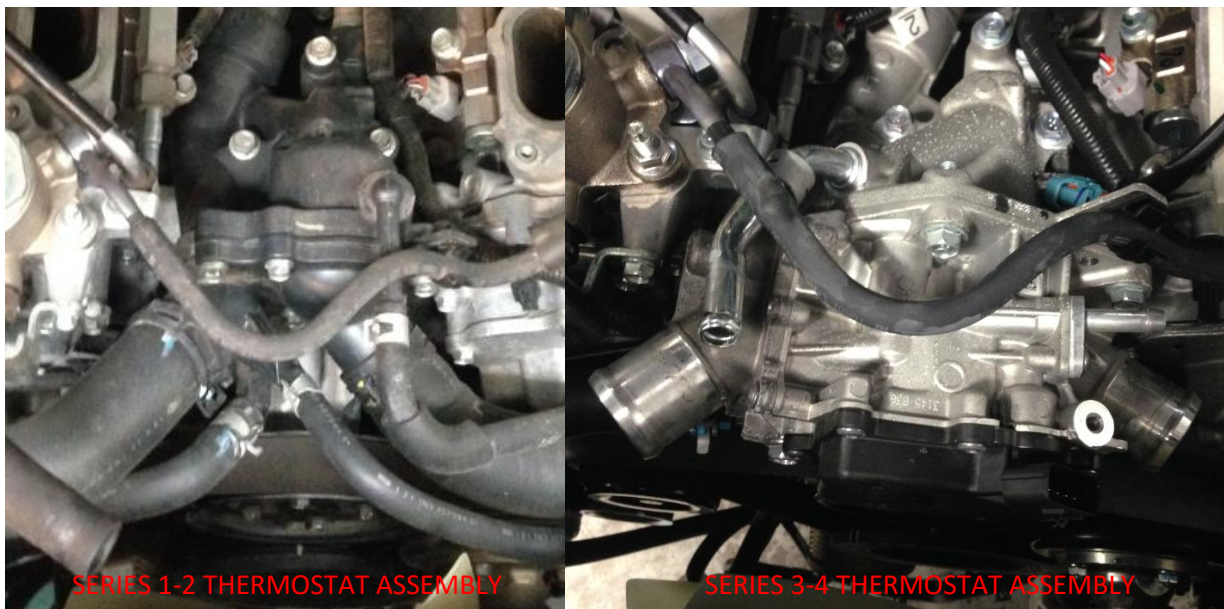
Recalibration of the ECU is necessary and not included.

Technical specifications:

- Eaton TVS Supercharger technology
- Integrated Supercharger Bypass system which relieves boost under light load conditions.
- High density water to air intercooler system:
 - Front mount Radiator: 6.0mm high, 16 Fin-Per-Inch (FPI), 36mm thick
 - In-manifold Intercooler: 4.9mm high, 28FPI, 36mm thick
- Supercharger Pulleys are available from Ø70 to Ø90 to provide a range of boost levels. Some Pulleys diameters require the Tensioner Pulley to be changed to maintain the same belt length

VK56VD, SERIES 3-4, TVS2300 & TVS2650				
7PK3525 BELT	Supercharger pulley		Tensioner pulley	
	Diameter (mm)	Harrop part number	Diameter (mm)	Part number
	70	99-PLY13363	82	DAYCO EP001
	75	99-PLY13362	76 - STD	-
	80	99-PLY13024	76 - STD	-
	85	99-PLY14269	65	DAYCO EP257
	90	99-PLY14270	65	DAYCO EP257

Use the following images to identify the Series of the Engine. The later Series 3-4 have an electronically controlled thermostat assembly.



SERIES 1-2 THERMOSTAT ASSEMBLY

SERIES 3-4 THERMOSTAT ASSEMBLY

Performance:

Stock naturally aspirated VK56VD: 348 hp/460 ft-lb

Stage 1 (99-KSM43K24 Series 1, 99-KSM43K26 Series 3-4): TVS2300, Ø85 Drive Pulley (6.0 psi*): 465 hp/460 ft-lb

Stage 2 (99-KSM43K24 Series 1, 99-KSM43K26 Series 3-4): TVS2300, Ø75 Drive Pulley (8.5 psi*), DI fuel pump upgrade (65-Y62-VK56-DI): 542 hp /504 ft-lb

*Boost pressure can vary 1.0-1.5 PSI depending on ambient conditions and other modifications including air intakes

TVS2650 supercharger is also available. With supporting upgrades like built engines and high capacity air intake and fuel systems this Supercharger can support over 1000 hp.

Power and Torque figures were measured on a Dynapack Hub Dyne.



Harrop TVS2300 Supercharger kit installed on a 2016 Y62 Nissan Patrol

