Tech Guide

VK56VD V8 Nissan Titan Supercharger

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Harrop Supercharger Kit – VK56VD V8 - Second-Generation Nissan Titan

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 FDFI Supercharger Kit for Nissan 5.6 Litre VVEL V8 VK56VD Gasoline engines.

Part number: TVS2300: 99-KSM43K38

Includes all components required for installation onto a standard Nissan Titan with the VK56VD engine:

- Supercharger intake manifold including charge-air intercooler
- Harrop TVS2300 FDFI Supercharger
- 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 – for Nissan Titan with VK56VD engines only.

Recalibration of the ECU is necessary for all versions and not included.

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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 fin, 16 Fin-Per-Inch (FPI), 36mm thick
    - In-manifold Intercooler: 4.9mm high fin, 28FPI, 36mm thick
- Drive belt: 7PK3525
- Supercharger Pulley: 99-PLY14270, Ø90

Performance:

Stock naturally aspirated VK56VD: 348 hp

Power and Torque gains of around 25% are typical with a boost pressure of 5.0 psi with Ø90 Drive Pulley.

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

Power figures were measured on a Dynapack Hub Dyne.

Harrop TVS2300 Supercharger kit installed on a 2019 Nissan Titan