

GEAR RATIO CALCS

Gear Ratios

		(1st)	3.58
Tyre Size (in)	30.6	(2nd)	2.077
Diff Ratio 1:	4.375	(3rd)	1.36
Circum Tyre (m)	2.442	(4th)	1
		(5th)	0.760

AT 100km/h in 5th using above numbers

$$\text{RPM} = \frac{\text{Speed (ms}^{-1}) \times \text{Gear Ratio} \times \text{Diff Ratio} \times 60 \text{ (sec-min)}}{\text{Circumference (m)}}$$

Measured 2700

Percentage (%) Diff 19.0

AT 85km/h in 4th using above numbers

$$\text{RPM} = \frac{\text{Speed (ms}^{-1}) \times \text{Gear Ratio} \times \text{Diff Ratio} \times 60 \text{ (sec-min)}}{\text{Circumference (m)}}$$

Measured 3000

Percentage (%) Diff 18.2

Nissian Navara Manual Transmission Ratios

SJ Ball



Nissan Navara Manual Transmission Ratios:

Autocar ,2002 *Power Farming in Australia and New Zealand Technical Manual* ,1989 **Automotive News** ,
Farming Ahead with the Kondinin Group ,1998 **Weekly Times Technical Annual** ,1988 Motor Industry Magazine ,2005-02 *Gear Ratio Investigation of Automotive Manual Transmission* Muhamad Amir Shah Arif Harun,2007

Investigation of manual transmission purpose is to train mal year student for hands on and automotive investigation experience In this investigation of manual transmission two analyses have done First analysis is about how gear ratio influence vehicle performance curve Vehicle performances are determined not only by engine performance but also by transmission gear ratios differential gear reduction ratio and tires Second analysis is about size gear shaft design of gear shaft is influence by size of vehicle For example truck and small car have different of size gear shaft The second analysis prove why design of gear shaft influence by size of vehicle Cosmoswork are using in second analysis for test Stress deformation strain displacement in gear shaft at different size Investigation of manual transmission need to documentation because it will be best reference for student who s involved in fabrication of manual transmission This report have explain how to using Cosmoswork and calculation for produce vehicle performance curve from gear ratio Author **How To Rebuild and Modify Your Manual Transmission** Robert Bowen, This resource explains how to rebuild and modify transmissions from both rear and front wheel drive cars It explains the principles behind the workings of all manual transmissions and helps readers understand what they need to do and know to rebuild their own transmissions Includes how to determine what parts to replace how and why to replace certain seals spacers springs forks and other parts and where to find and how to measure the specifications for each particular transmission Nissan Navara and Pathfinder Automotive Repair Manual Jeff Killingsworth,John Harold Haynes,2006-01-01 Navara D21 Pathfinder with 2 0L 2 4L 3 0L petrol engines 2WD 4WD Does not include diesel engine information Torque-conversion Range and Gear Ratios in Automotive Transmissions H. J. F?orster,1965 *Passenger Car and Light Truck Automatic Transmission and Automatic Transaxle Test Code* Automatic Transmission and Transaxle Committee,2015 The extent of test conditions on the dynamometer must be sufficient to determine the efficiency characteristics corresponding to the following range of vehicle operations in all gear ratios with locked torque converters open converter can also be done where appropriate and noted aEfficiency versus output speed versus input torque bTorque ratio versus output speed cInput speed versus output speed dOutput torque versus output speed eParasitic loss versus input speed spin losses fCooler flow gOutput torque bias front wheel drive transaxles This Recommended Practice had defined a test procedure and process which gave a reasonably complete description of the efficiency and performance of a 20th century automatic transmission With the introduction of electronic controls the number of parameters which control the transmission s operation have expanded extensively and these need to be defined for each test The interaction between the transmission the environment the engine the cooling and other systems have also made test

definition very difficult and complex Finally the diversity the rapid changes and the component complexity introduced by electric and hybrid drive system combine with the above difficulties to make it impractical to define a Recommended Practice which could provide a meaningful description of performance and efficiency of 21st century automotive transmissions The existing Recommended Practice J651 is being stabilized to preserve the test procedures for future reference **How Manual Transmissions Work** , Howstuffworks Inc presents the full text of the article entitled How Manual Transmissions Work by Marshall Brain The author discusses the manual transmission of an automobile The transmission allows the gear ratio between the engine and the drive wheels to change as the car speeds up and slows down

Nissian Navara Manual Transmission Ratios Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Nissian Navara Manual Transmission Ratios**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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