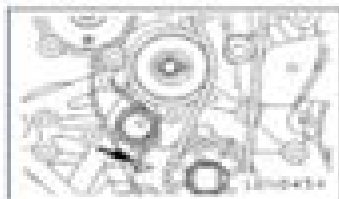


Proton Wira 1993-2009 Engine Manual



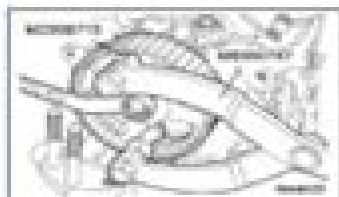
REMOVAL SERVICE POINTS

➡ TIMING BELT / TENSIONER SPRING / TIMING BELT TENSIONER REMOVAL

- (1) Using pliers, grip the tensioner spring projection (marked "X" in the diagram) and remove it from the oil pump case stopper. Then, remove the tensioner spring.
- (2) Remove the timing belt tensioner.
- (3) If the timing belt is to be reused, chalk an arrow on the belt to indicate the direction of rotation before removing it. This will ensure the timing belt is fitted correctly when reused.

➡ CAMSHAFT SPROCKET BOLT REMOVAL

- (1) Using the special tools shown in the illustration, lock the camshaft sprocket in position.
- (2) Loosen the camshaft sprocket bolt.



INSPECTION

1. TIMING BELT

Check the timing belt closely. Replace the belt with one if any of the following defects is evident:

- (1) Hardened backing rubber (the backing rubber is non-elastic, and so hard that something leaves no mark)
- (2) Surface cracks in the backing rubber
- (3) Spalls in the backing rubber (chips of the backing rubber)
- (4) Cracks in the timing belt
- (5) Cracks in the timing belt

(6) Normal wear on the belt's sides

NOTE

The sides of the belt are normal if they are sharp as if cut by a knife.



REMOVAL AND INSTALLATION (DOHC)



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Removal steps

1. Crank belt
2. Tensioner spring
3. Timing belt
4. Camshaft sprocket
5. Crankshaft sprocket
6. Water pump

7. Crank belt
8. Tensioner spring
9. Timing belt
10. Camshaft sprocket
11. Crankshaft sprocket
12. Water pump

NOTE

For details of adjustment, refer to the relevant models' (check) workshop manual.

Wira Manual

E Durkheim



Wira Manual:

A Manual of the Chikaranga Language, with Grammar, Exercises, Useful Conversational Sentences and Vocabulary C. S. Louw, 1915 **Moody's Manual of Railroads and Corporation Securities**, 1924 *A Manual of Indian Timbers* James Sykes Gamble, 1902 **Third World Colonialism and Strategies of Liberation** Awet Tewelde Weldemichael, 2013 This book shows how Eritrea and East Timor developed sophisticated strategies to liberate their countries from colonialism and emphasizes that these insurgencies avoided terrorism *Moody's Manual of Railroads and Corporation Securities. Government, State and Municipal Supplement*, 1921 *A Practical Manual of the Nyanja Language* Alexander Hetherwick, 1916 Moody's Industrial Manual, 1927 *Testing of Textile and Fibrous Materials* Apurba Das, 2024-02-28 This book contains detailed knowledge about testing principles of fibre yarn and fabric characteristics the tensile characteristics of materials and testing of fibrous composites and technical textiles It starts with an introduction to textile testing and further covers moisture in relation to textile materials sampling techniques for textile materials and the basic applied statistics fibre characteristics fibre length cotton fibre fineness and maturity characteristics It also deals with the advanced characterisation of cotton fibre by using HVI and AFIS systems Features It covers the principles of the testing of textile and fibrous materials along with modern techniques for testing textile materials It reviews all necessary topics related to fibre yarn fabric technical textiles and composite testing It explores the tensile characteristics of textile materials and measurement principles It discusses low stress mechanical characteristics and transmission characteristics It includes a large number of examples and exercises based on actual industrial conditions worldwide including solutions This textbook is aimed at senior undergraduate students in textile testing and evaluation of textile materials *Moody's Manual of Investments: American and Foreign*, 1924 **Moody's Manual of Investments** John Sherman Porter, 1929 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 **Manual** American Railway Engineering Association, 1921 Forensic Science Handbook, Volume I Adam B. Hall, Richard Saferstein, 2020-10-19 Originally published in 1982 by Pearson Prentice Hall the Forensic Science Handbook Third Edition has been fully updated and revised to include the latest developments in scientific testing analysis and interpretation of forensic evidence World renowned forensic scientist author and educator Dr Richard Saferstein once again brings together a contributor list that is a veritable Who's Who of the top forensic scientists in the field This Third Edition he is joined by co editor Dr Adam Hall a forensic scientist and Assistant Professor within the Biomedical Forensic Sciences Program at Boston University School of Medicine This two volume series focuses on the legal evidentiary biological and chemical aspects of forensic science practice The topics covered in this new edition of Volume I include a broad range of subjects including Legal aspects of forensic science Analytical instrumentation to include

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1 - Hominoids to Hominins Chapter Primate Evolution Chapter Assessment Questions Answer: The foramen magnum is the hole in the skull where the spine extends from the brain. It is in ... Chapter 16 Primate Evolution 1. When hominids moved from living primarily in treetops to living on the ground, they became _____. Need a Hint? ; 1. When hominids moved from living primarily ... Chapter 15 and 16 Study Guide Answers Chapter 15 and 16 Study Guide Answers. Section 15-1.

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