



8. Remove power steering pump pulley and bolts.
9. Disconnect battery earth loom.
10. Disconnect the auto trans cooler pipes to the radiator.
11. Remove the bearing brace from the front of the sump area.
12. a) Remove the 3 bolts at the front of the sump to timing gear cover.  
b) Loosen sump bolts to engine block.
13. Remove the timing gear cover and gasket, 7 bolts and 3 studs.

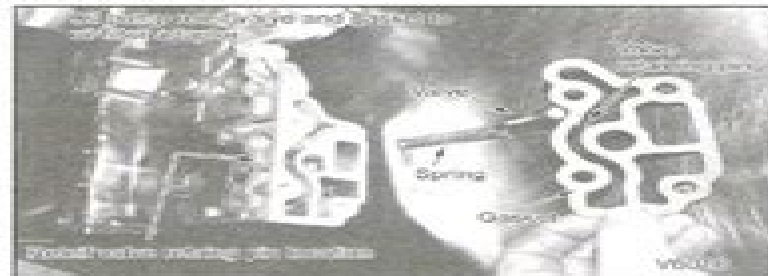
# Note: The water pump and camshaft sensor are removed with the timing gear cover and will only need separating if necessary.

#### Oil Pump

14. Remove oil filter.
15. Remove the oil filter adapter and gasket, 4 bolts. The oil pressure regulator spring and valve will also be released.
16. Remove the oil pump rear cover from inside the timing gear cover, 5 screws (Torx T30).
17. Remove front oil seal with a seal remover tool or screw driver.

#### Clean and Inspect

Clean any sludge from inside oil pump and around oil pump rotors. Inspect the inside of the pump housing and the outer gear and inner rotor for damage or excessive wear. Install the outer gear and the inner rotor shaft assembly with



the timing marks on the gear and rotor towards the pump cover. Inspect clearances of outer gear and rotor gear, replace if not within specification.

**Inner gear tip to outer rotor tip specified clearance:**

**Max: 0.22mm**

**Outer rotor to pump housing clearance: 0.05-0.13mm**

The inner rotor and outer gear are serviced as an assembly. One part should not be replaced without replacing the other. Check the clearance between the oil pump cover and gear / rotor is within specification with a straight edge.

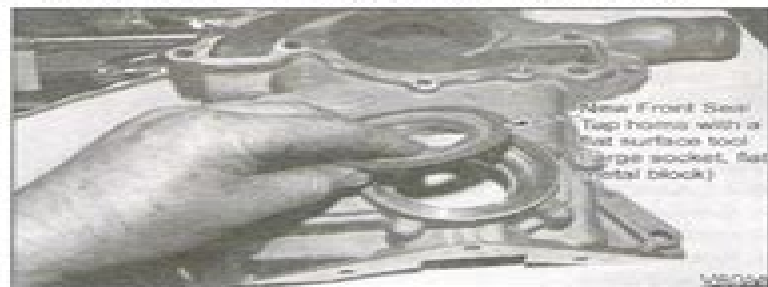
**Oil Pump Cover Clearance: 0.025-0.089mm**

Check the clearance between the oil pressure relief valve and bore is within specification.

**Oil Pressure Relief Valve Clearance: 0.038-0.076mm**

#### Install

1. Install a new front seal into the timing gear cover, use a seal insertion tool or a large socket that is the correct size.



2. Install the oil pump gear and rotor into the timing gear cover, install cover and 5 screws, (Torx T30).

**Oil Pump Cover Screws: 8-14Nm**

# Note: Inner gear chamfered edge is facing towards the engine block.

#Tip: Fill in around oil pump rotor and gear with petroleum jelly.

3. Install oil pressure regulator spring and valve, oil filter adapter and new gasket with sealant, 4 bolts. Use Loctite 242 on the thread of the long bolt.

**Oil Filter Adapter Bolts:**

**23-35Nm**

# Vt Service Manual

**WJ Hussar**



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*Trade and Industrial Education*, 1972      **Trade and Industrial Education; Instructional Materials** Ohio State University. Center for Vocational and Technical Education, 1972      ,      **Agricultural Education**, 1972      *Home Economics Education* Ohio State University. Center for Vocational and Technical Education, 1972      **Home Economics Education; Instructional Materials** Ohio State University. Center for Vocational and Technical Education, 1972  
Compilation of abstracts of teaching and training materials specific to the field of home economics education in the USA includes such specific areas as child care occupations consumer education day care programmes home management etc  
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**Focus On: 100 Most Popular Station Wagons** Wikipedia contributors,      *Focus On: 100 Most Popular Sedans* Wikipedia contributors,      *Distributive Education from AIM, 1967-1971* United States. Office of Education, 1972  
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*Forest Trails Library Bibliography* Jim Schmid, 1993      **Host Bibliographic Record for Boundwith Item Barcode 30112106524124 and Others**, 2013      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December  
*Organizational maintenance manual (including repair parts and special tool list) for small arms ammunition to 30 millimeter inclusive (FSC 1305).*, 1989      **Routledge Spanish Technical Dictionary Diccionario tecnico ingles** Sinda López, 2024-11-01 These 2 volumes consist of some 100 000 headwords in both Spanish and English including 3 000 abbreviations Terms are drawn from the whole range of modern applied science and technical terminology These volumes can be purchased either separately or together in print Each volume is compiled by an international team of subject terminologists native English and Spanish speakers Special attention is given to differences between UK and US terminology and to Spanish and Latin American variants Over 70 subject areas are covered Estos 2 vol menes constan de unos 100 000 lemas tanto en espa ol como en ingl s incluidas 3 000 abreviaturas Los t rminos se extraen de toda la gama de terminolog a t cnica y cient fica aplicada moderna Estos vol menes se pueden comprar por separado o juntos en forma impresa Cada volumen es compilado por un equipo internacional de termin logos tem ticos hablantes nativos de ingl s y espa ol Se presta especial atenci n a las diferencias entre la terminolog a del Reino Unido y Estados Unidos y a las variantes espa ola y latinoamericana Se cubren m s de 70 reas tem ticas      *Abstracts of Instructional Materials in Vocational and Technical Education*, 1975      **Popular Science**, 1946-03 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      *Land Treatment of Wastewater at West Dover, Vermont* John R. Bouzoun, 1977 A general description of a wastewater land treatment system located in a cold temperate

climatic region is given The winter season average daily design flow is almost double that of the summer fall season 0 55 MGD vs 0 30 MGD Wastewater is sprayed on a forested knoll after it receives secondary biological treatment The system is operated during the winter when the ambient air temperature is as low as 10 F 12 2 C Spray nozzles have been developed that ensure rapid drainage of the spray laterals after each spray cycle and therefore prevent their freezing Author

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<http://www.frostbox.com/files/book-search/Documents/Strawberry%20Sherbert%20Punch%20Recipe.pdf>

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