

Mitsubishi Outlander 2007-2013 Workshop Manual

CRANKSHAFT PULLEY CENTER BOLT/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY REMOVAL

1. Hold the crankshaft pulley with special tools MB990767 and MD990710.
2. Loosen the crankshaft pulley center bolt and remove the crankshaft pulley center bolt, crankshaft pulley washer and crankshaft pulley.

INSTALLATION SERVICE POINTS

CRANKSHAFT PULLEY/CRANKSHAFT PULLEY WASHER/CRANKSHAFT PULLEY CENTER BOLT INSTALLATION

1. Wipe off the dirt on the crankshaft and the crankshaft pulley as shown in the figure using a rag.
2. Wipe off the dirt on the crankshaft sprocket, the crankshaft pulley washer and the crankshaft pulley center bolt and then degrease them.

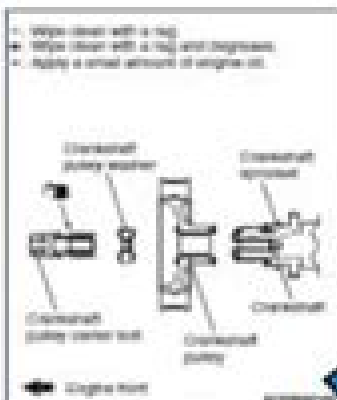
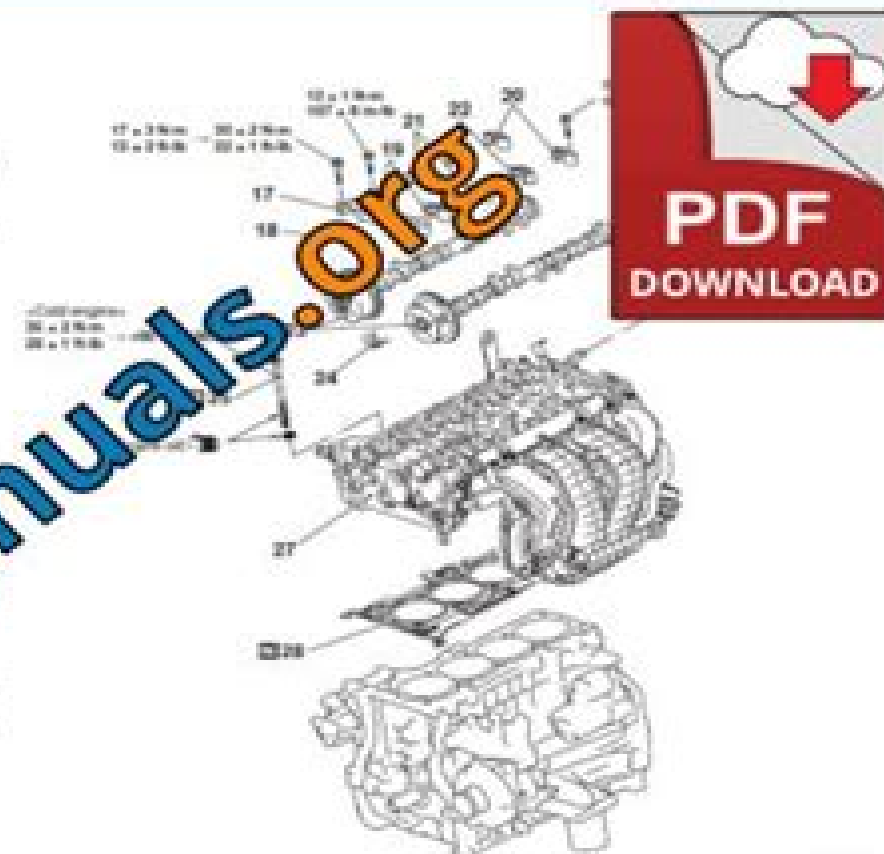
NOTE: Degrease them to prevent dirt from entering the contact area of the pressed area, which is the main reason for failure.

3. Install the crankshaft pulley.
4. Wipe off the dirt on the crankshaft pulley washer and the crankshaft pulley center bolt as shown in the figure using a rag.
5. Apply an adequate amount of engine oil to the threads of the crankshaft pulley center bolt and the lower area.

Hold the crankshaft pulley with special tools MB990767 and MD990710 in the same manner as removal.

7. Tighten the crankshaft pulley center bolt to the specified torque.

Tightening torque: 250 N·m (185 ft·lb)



Removed steps		Removed steps (Continued)	
17	Timing chain (Refer to P. 114-67)	22	Crankshaft thrust bearing cap
18	Front crankshaft bearing cap assembly	23	Crankshaft and crankshaft sprocket assembly
19	Crankshaft bearing	24	Crankshaft bearing
20	Crankshaft bearing oil feeding cap	25	Cylinder head bolt
21	Crankshaft bearing cap	26	Cylinder head bolt assembly
22	Crankshaft bearing cap	27	Cylinder head assembly
23	Crankshaft bearing cap	28	Cylinder head gasket

Required Special Tools:

- MB990767: Engine Hanger

- MB990710: Engine Hanger

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Workshop Manual, ZE-2003, ZE-2004, ZF-2005 ,2004 Defender: Data and maintenance, Engine and engine systems.
Vol 2. Transmission, Chassis and body, Air conditioning and electrical equipment ,1993 2003 Mitsubishi Outlander
Service Manual Mitsubishi Jidōsha Kōgyō Kabushiki Kaisha,2002 Land Rover Freelander Service and Repair Manual
Martynn Randall,Robert Jex,2002 **Land Rover Freelander Service and Repair Manual** Martynn Randall,R. M.
Jex,2013 Part of a series of manuals for car or motorcycle owners the Haynes Automotive Repair manuals provide
information on routine maintenance and repair with all tasks described photographed in a step by step sequence **Rover**
216 and 416 Owners Workshop Manual Mark Coombs,1992

2012 Outlander Workshop Manual Book Review: Unveiling the Magic of Language

In an electronic 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 actually remarkable. This extraordinary book, aptly titled "**2012 Outlander Workshop Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web astm a572 grade 50 pipe is high yield pipe having 50ksi minimum yield strength the material is a vanadium columbium alloy and has improved resistance to atmospheric corrosion steel india company is a leading manufacturer and supplier of the carbon steel asme sa572 gr 50 tube types and pipes the dimensions of the pipes and tubes come

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web jul 1 2023 a572 carbon steel also known as astm a572 is a high strength low alloy structural steel that is commonly used in construction and engineering applications it falls under the category of carbon steel alloys and has

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web astm a572 steel grade 50 categories metal ferrous metal astm steel carbon steel low carbon steel material notes high strength low alloy steel structural quality vendors no vendors are listed for this material

shape material astm a572 gr 50 with special requirements aisc - Feb 24 2023

web meet all requirements of standard astm specification a572 a572m 94c for high strength low alloy columbium vanadium structural steel grade 50 the steel shall be made to a practice producing nitrogen practice producing nitrogen not greater than 0 015 and

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web astm 572 grade 50 steel has an ultimate tensile strength of 450 mpa metric and 65 300 psi imperial it has a tensile yield strength of 345 mpa and 50 000 psi what are astm a572 gr 50 steel properties

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web jun 16 2021 scope 1 1 this specification covers five grades of high strength low alloy structural steel shapes plates sheet piling and bars grades 42 290 50 345 and 55 380 are intended for riveted bolted or welded structures

speedy metals information for astm a572 grade 50 plate - May 18 2022

web grade 50 is used in general plate applications when the plate will be riveted bolted or welded grade 50 is a columbium vanadium steel that offers a minimum yield of 50 000 psi in addition astm a572 grade 50 is noted for

astm a572 grade 50 60 steel plate sepcification octal metals - Sep 02 2023

web astm a572 grade 50 60 steel plate sepcification astm a572 standard is for high strength low alloy hsla structural steel plate integrated with columbium vanadium the specification covers 5 grades of hsla steel profiles plates sheet piling and bars

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web a572 grade 42 steel plate and 50 345 and 55 380 are best for riveted bolted or welded structures a572 grade 60 steel plate 65 450 is best for riveted or bolted construction of bridges or for riveted bolted or welded construction in other uses

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web astm a572 steel is a common high strength low alloy hsla structural steel used in the united states 1 a572 steel properties are specified by astm international standards 2 grades a572 steel has five different grades 42 50 55 60 and 65 2 each of these grades differ in their mechanical properties and chemical composition

a572 aisi astm uns worldwide equivalent grades steel - Apr 16 2022

web a572 usa aisi astm uns european eu en and wordwide steel equivalent grades these comparison table is only intended as an indication of the closest khown equivalent grades the source standarts should always be checked for the specific purpose for each material in case of doubt

a36 a572 grade 50 carbon hot rolled steel sheet plate alro - Oct 23 2022

web it meets the requirements of both astm a 36 and astm a572 50 a 36 a572 50 s strength form ability and excellent welding properties make it suitable for a large variety of different applications a 36 a572 50 s yield strength is increased to 50 000 psi higher than that of a normal a 36

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web the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

standard speciPcation for high strength low alloy columbium - Jan 26 2023

web dec 31 2021 50 345 a 50 345 4 b 100 b all all all all 55 380 55 380 2 1 Ú2 64 all all all all 60 415 a 60 415 2 1 Ú2 c 64 c

2 50 all all 65 450 65 450 2 50 2 50 all all a in the above tabulation grades 42 50 and 60 290 345 and 415 are the yield point levels most closely approximating a geometric progression pattern

astm a572 steel grade 50 matweb - Apr 28 2023

web astm a572 steel grade 50 recently viewed materials available properties density typical of astm steel hardness brinell based on conversion from tensile strength hardness rockwell b based on conversion from tensile strength tensile strength ultimate tensile strength yield elongation at break in 200 mm elongation at break in 50 mm

datasheet for steel grades carbon steel a572 gr 50 - Dec 25 2022

web this page is mainly introduced the a572 gr 50 datasheet including chemical information mechanical properties physical properties mechanical properties heat treatment and micro structure etc it also contains the use of a572 gr 50 such as it is commonly used in bars sheet plates steel coils steel pipes forged and other materials

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web astm a572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss