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### Book Descriptions:

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## Book Descriptions:

# 99 mazda protege service manual

Can anyone help me out with a 2001 Protege ES Workshop Manual. Will the I am also searching for a manual for a 2001 Mazda Protege LX. 2002 Protege Workshop Manual. In the future I intend to do all the maintenance work myself, Order Mazda Protege Repair Manual Technical Book online today. Free Same Day Store Pickup. Mazda Protege repair manual PDF. Free PDF Downloads for all Engine sizes and models for Mazda Protege. Tasp guide, Crg setup guide, Q9h manual, 202a manual, Mining level guide. Reload to refresh your session. Reload to refresh your session. That is because until recently, having good miles per gallon was not as important as going fast on the roads. At its core, a sports car is a frivolity with very little practical purpose. You're less likely to find advertising for fast cars with good mpg — until now. Learn about the most fuel efficient sports cars right here with our guide. They have very similar designs, minus a few superficial differences. Both developed by Subaru and Toyota while being manufactured by Subaru, the BRZ and FRS are known in Japan as the Toyota 86. While these aren't the cars to blow you off the line, they still handle impressively well during turns. Plus, they sound loud and proud as you switch gears and switch lanes. It has a combined city and highway mileage of 31mpg, giving it a lot of brawn for the size of it. At 144 inches long and 64 inches wide, it features parallel parkers with a 30.6inch turning radius, making it easy to squeeze into tight spots. Courtesy of its electronic stability control and performance suspension, it can keep up with many of its competitors. Its design caters to the same drivers who enjoyed the Mini's swift quickness. The Veloster has light speed and a 1.6liter engine with 132 horsepower which is more than adequate. Aside from its combined 31 mpg, there is a tenyear warranty on its alloy wheels, a 7inch touchscreen entertainment system, plus a game console compatibility.<http://xn--80aab8aioy.xn--p1ai/userfiles/canon-ntsc-zr40-manual.xml>

- **1.0.**

Not to mention, the driver's side has one door while the other has two — talk about bold for a bargain. It handles turns like a rally car and performs like a Porsche Boxster, but for a lower price. Its redesign made it lower to the ground and 148 pounds lighter. There's a touchscreen and communications system. Plus it has a 2.0 liter, 155horsepower engine that makes it move a bit peppier than other sports cars. It offers Mini's toys, such as the Mini Connected entertainment center, which has a 6.5inch highdefinition display. There's Sirius satellite radio, HD radio, and Pandora can provide the perfect soundtrack. This is one of the fast cars with good mpg you need to have on your list. It features a 2liter engine that gives the little hatch 155 horsepower and helps it dust most cars in its class while still having 36 mpg of fuel efficiency. Even the standard versions of this car come with sixspeaker audio, standard Bluetooth, voice command, multifunction Commander control, Pandora, HD Radio, auto text, and voice reply. Unless you grab this car streetready, where you'll likely have to make a lot of modifications once you leave the dealership. It features 887 horsepower, a top speed of 214 mph, and goes 0 to 60 in 2.5 seconds. Its electric motors send out 286 horsepower on its own but combined with the 601horsepower and 4.6 liters V8, it makes this carbonfiber dream car one of the best on the market. There's a 3D navigation display, two USB ports, a 7inch touch screen, SD card, central highresolution 8inch TFT display, and more. This car will remain efficient until you run out of electricity — that's when the mileage drops to a bleak 22 mpg combined. Buyers are generally expecting better fuel economy out of their highhorsepower vehicles. And thanks to our list of the best fuel efficient sports cars, you can hone in on the best one for you with ease! There are many different models out there. However, the BMW Z4 E85 is the next BMW that should grace your

driveway![http://aiswaryamatribonials.com/fck\\_uploads/canon-ntsc-dc100-manual.xml](http://aiswaryamatribonials.com/fck_uploads/canon-ntsc-dc100-manual.xml)

Before we dive any further, though, it's important to define the exact vehicle that we are talking about. We are focusing on the E85, but the Z4 series was also available in the form of the BMW E86. In terms of design, it is curvy and looks strikingly different from the Z3 model that came before it. One of our favorite ways to browse for vehicles is to use Craigslist or the Facebook Marketplace feature. And as BMWs go, the cost for the E85 is relatively cheap. While that may not seem cheap for a vehicle that is over a decade old, it is a value when compared to its competition. However, this particular BMW has better handling, design, and overall user experience than the Miata can offer. How heavy are we talking. About 500600 pounds. However, the extra weight ends up making the BMW a sturdier and smoother ride. Plus, you get the security that comes from riding a car that is more than just a glorified piece of plastic. And this BMW offers that to drivers every time you turn the key. And when it comes to roadsters, that purpose is simple to have fun! And let's face it there's no substitute for the feeling of the wind rushing through your hair as you speed down the road! However, it's rare to find a vehicle that combines a convertible exterior with a luxurious interior. And most of the time, this conjures up mental images of a very cramped interior. Sure, there are only two seats, but each person will be enjoying a surprising amount of elbow room during the drive. That spacious interior also happens to be very luxurious. These make for a comfy and convenient ride and are standard on the E85. To be blunt, some designs age better than others. So, fair question why would you want to drive a car from this era It looks like a quantum leap in aesthetics from its predecessor, the Z3. And you'd be hardpressed to find a new vehicle at this price point that looks anywhere near as good! And some people have a very simple need the need for speed!

You should be able to go from "0 to 60" in less than 7 seconds, meaning that this little car is still packing a lot of get up and go. The car defaulted to an automatic drive, though manual variants are available for those who want full control whenever they drive. We're pleased to report that this car is also sporting a surprising amount of room in the back as well. This means that you and maybe a partner can pack plenty of luggage and gear in the back before you make your escape. With this BMW, you can have speed and space, all while driving a car that is still guaranteed to turn heads. But do you know how to take care of your new ride To see how we can take care of your garage, check out our DIY Repair section today! Click here for 10 simple DIY auto repair tips you can practice today. Odds are, if you're going somewhere, you're going there in your car, truck, or van. While you could take care of your automobile by taking it into a repair shop, it's a lot less costly to just repair your automobile on your own. They require minimal amounts of tools and repair knowledge, and can be done in a fairly timely manner. However, it's still a good idea to check them around every 40,000 miles to ensure that they're still going strong. This is particularly true if you leave them running after moisture has left your windshield. The task can be easily carried out by you. Any pack of windshield wipers you buy will tell you exactly how to get the job done. This guide can help you. Fortunately, you don't have to go into a repair shop to get them replaced. Once you've obtained this bulb, you can install it by following the directions in your owner's manual. There are cases in which you can save the tire by plugging or patching it. For DIY purposes, you're best off using plugs. This one is as good as any. To keep all of their components in the correct places, they make use of a number of screws.

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You'll need an electric or hydraulic drill, but it's still more affordable than taking your car to a repair shop. For this reason, you need to monitor the power of your car's battery regularly. Their exact estimated duration will typically be denoted somewhere on their exterior. Of course, there are cases in which batteries can die out before their time. Simply remove the battery's cables and then reattach those cables to the new battery. In most cases, it necessitates opening the hood and unscrewing a couple of covers. Once the covers are removed, you can remove your old filter and

replace it with a new one. While this is not the most simple of repairs, it's a lot easier than you might realize. You'll also need something to raise your car off the ground so that you can remove its tires. There are tons of guides online to help you with this task. It can be done with an oil filter, an oil pan, and a variety of wrenches. Once you have these tools, all you have to do is elevate your car in some way. These objects can leave small chips and cracks in your windshield. These kits are available at auto shops and online retail stores for very affordable prices, allowing you to fix your window in a timely and inexpensive manner. Discover the 5 best cars for road trips in this post. [Click here](#). Even modest short road trips can be some of the most memorable times of your life. The people you bring along, proper planning, and of course the perfect car. After looking into car loan comparisons and securing the funds to invest in a car, try looking for these makes and models first. The newest 2017 model boasts a manual transmission that shifts smoothly, making it a great car for firsttime stick shift drivers. Look no further than the Chrysler Pacifica. Plus, the Pacifica has an ample amount of space for packing everything you need for your road trip. Bluetooth, rearview camera, voicecontrolled interface, and more. It boasts a 25 city and 36 highway mpg and high safety rating.

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Nobody needs a carsick companion on their road trip. Have your pick and get cruising to your dream road trip destination! The demand for In this article, you'll discover the story behind the most famous Japanese car brands from Honda to Toyota. Let's go! From the Accord to Fit and CRV to CRZ, Honda has built a reputation of worldrenowned cars. Honda established the company in 1948 in a wooden shack to the multinational player it is today. Just when you think Honda can no longer make any improvements on the latest model, they exceed expectations once again. However, it wasn't until the after the Second World War that the company started to put its efforts into the manufacturing of cars. Nissan continues to show ambition with the plans for driverless cars by the year 2020. Popular Mitsubishi cars include the Lancer Evolution, RVR, and the Colt. However, the company has experienced a decline in sales in the past couple of years. Mazda vehicles scream trendy and innovation. Whether it's the Mazda MPV or the Roadster, these are fabulous cars. Even though Mazda has not had much financial luck of late, it remains the 15th biggest manufacturer of vehicles in the world. In particular, the models Outback and Crosstrek have proven to be big sellers for the company. It the small and light design makes it ideal for transporting the vehicle overseas with this company. The car manufacturer has achieved sales of more than three million vehicles; however, it has experienced a dip in sales lately. It speaks to those of us who admire the luxury car experience and the elegance and dynamism of driving. But also, you have to have the cash too! The Toyota company is so huge that it's even the 6th largest company in the world. Furthermore, the company also boasts some of the most innovative hybrid vehicle technology. Toyota has become the leader of hybridelectric vehicles. But, it doesn't seem to be slowing down at all.

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There are also signs that the Japanese manufacturers are set to lead the way into the driverless future. Do you want to discover the auto repair manual for your Japanese vehicle August 27, 2020 How Long Do Hybrid Batteries Last And What to Do When They Go Bad August 27, 2020 How to Use a Winch the Right Way August 24, 2020 Extreme Vehicle Transformations Wild and Creative Car Makeover Ideas August 24, 2020 Maintain Your Car A Simple Car Maintenance Schedule August 17, 2020 What Is Windshield Calibration. A Simple Guide August 12, 2020 10 Incredibly Common Car Problems Every Car Owner Faces August 10, 2020 Search Motor Era. Please try again.Please try again.Tons of information and illustrations, covers alot, no missing pages. Then you can start reading Kindle books on your smartphone, tablet, or computer no Kindle device required. In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Register a free business account To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Instead, our system considers things

like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Mazda Protege Guide. To get started finding Mazda Protege Guide, you are right to find our website which has a comprehensive collection of manuals listed. Our library is the biggest of these that have literally hundreds of thousands of different products represented. I get my most wanted eBook Many thanks If there is a survey it only takes 5 minutes, try any survey which works for you. Something went wrong. View cart for details. User Agreement, Privacy, Cookies and AdChoice Norton Secured powered by Verisign.

The Pros and Cons What to Do After Getting Into an Accident 5 Steps to Take 7 Common Maintenance Mistakes to Avoid for New Car Owners Fixing Cars 5 Common Car Problems and How to Fix Them Construction Vehicles 101 How to Use a Forklift for the First Time Getting Compensated 5 Types of Personal Injury Cases These Are the Car Accident Lawyer Fees You Can Expect. Learn more opens in a new window or tab This amount is subject to change until you make payment. For additional information, see the Global Shipping Programme terms and conditions opens in a new window or tab This amount is subject to change until you make payment. If you reside in an EU member state besides UK, import VAT on this purchase is not recoverable. For additional information, see the Global Shipping Programme terms and conditions opens in a new window or tab Delivery times may vary, especially during peak periods. Learn More opens in a new window or tab Learn More opens in a new window or tab Learn More opens in a new window or tab Learn More opens in a new window or tab Learn More opens in a new window or tab Learn more See the seller's listing for full details and description of Contact the seller opens in a new window or tab and request a postage method to your location. Please enter a valid postcode. Please enter a number less than or equal to 1. All Rights Reserved. User Agreement, Privacy, Cookies and AdChoice Norton Secured powered by Verisign. View cart for details. All Rights Reserved. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Free Manual 1999 Mazda Protege Ebooks. To get started finding Free Manual 1999 Mazda Protege Ebooks, you are right to find our website which has a comprehensive collection of manuals listed. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with 1999 Mazda Protege Repair Manual.

To get started finding 1999 Mazda Protege Repair Manual, you are right to find our website which has a comprehensive collection of manuals listed. Specific to. Print. Mazda 626 1999. Mazda Miata 1999. Mazda Millenia 1999. Mazda Protege 1999 Engine Type Mazda. Mazda. Code . Year Specific to Mazda Miata 2000. Mazda Millenia 2000. Mazda Protege 2000 Engine Type Eng. Mfg. Mazda. Year Protege 1999 2000. Serial Number Identification. Engine. The engine identification number label is located on the engine block. Back to Top. Protege 1999 2000. Transaxle Identification. Mazda 3 2004. Mazda 6 2003 2004. Mazda 626 1999 2002. Mazda Millenia 1999 2002. Mazda Protege 1999 2003. Mazda Protege 5 2002 2003. The transaxle identification label can be found either on the top of the transaxle or on the right side. Print Fig. Common manual transaxle identification tag location. Back to Top. Vehicle Certification Label. Mazda Miata 1999 2004. The Vehicle Certification Label is attached to the left hand door jamb below the latch striker. The label contains the name of the manufacturer, month and The vehicle certification Back to Top. Vehicle Identification Plate. Vehicle Identification Number. The Vehicle Identification Number VIN is stamped on a metal plate that is It can be seen by looking through the lower corner of the windshield on the drivers side. The VIN number is also stamped on the firewall directly behind the engine. The VIN is a 17 digit combination of numbers and letters. The first 3 digits represent the world manufacturer identifier which is Mazda. The 5th digit is a The 10th digit indicates the model year L for 1990, M for 1991, N for 1992, P for 1993, etc. The 11th digit is the Fig. The VIN number can also be found stamped on the firewall, under the hood. Engine Cooling. Protege 1999 2000 The Engine Coolant Temperature ECT sensor is located at the left side of the engine. See Component Locations in this section for Print.

Component Locations. PrintBack to Top. Engine Electrical. Alternator.

PrintNegative battery cable. Electrical connectors from the alternator. Alternator drive belt. Alternator pivot and adjusting bar bolts. To installAlternator with the pivot bolt. Alternator electrical connectors. Drive belt. Upper mounting boltTorque the lower through bolt to 2838 ft. lbs. 3851 Nm and the upper mounting bolt to 1418 ft. lbs. 1926 Nm. Negative battery cable. Engine Mechanical. Accessory Drive Belts. Adjustment. PrintBelt Routings. Mazda Protege5 20022003Inspection. Mazda 6 2003. Inspect the drive belt for signs of glazing or cracking. A glazed belt will be perfectly smooth from slippage, while a good belt will have a slight texture ofAll worn or damaged drive belts should be replaced immediately.Refer to the illustration for component location.To installBack to Top. Spark plug wires. Spark plugsCylinder head cover hoses, if equipped. Cylinder head cover bolts. Cylinder head cover. Timing belt. Camshaft by holding it with a wrench on the hexagon cast into the camshaft. Sprocket bolts. Sprockets. Camshaft cap bolts by loosening in 23 steps in the sequence shown. Camshaft caps. To installIf not excessive force will be applied toMake sure to use the following procedure to avoid damage.Lubricate the camshaft journals and lobes with clean engine oil. Camshafts onto the head facing the cam noses at the no. 1 and 3 cylinders as illustrated. Make sure the camshaft sliding surface is free ofFig. Install the camshafts onto the head facing the cam noses at the no. 1 and 3 cylinders as shown1.6L ZMFig. Camshaft cap bolt tightening sequence1.6L ZM enginesDo not allow any sealant on the camshaft journals.Camshaft caps in their original positions. Cap bolts and hand tighten bolts 5, 7, 2 and 4. Cap bolts a few turns in the sequence illustratedTorque the bolts in 23 steps to 125New camshaft seal by lubricating it with engine oil. Tap the seal into position, using a seal installer, until it is recessed into the cylinder headCamshaft sprockets.

Torque the bolts to 44 ft. lbs. 60 Nm by holding the camshaft with the wrench on the cast hexagon. Remaining components. Crankshaft Damper Balancer. Camshaft Position CMP sensor. Ignition coils. Crankshaft pulley and plate. Water pump pulley. Rocker arm cover and discard the gasketTiming belt cover. Pulley using tool 49 D011 102 to prevent crankshaft rotation and remove the pulley boss. Fig. Remove pulley bolt and boss by using tool 49 D011 102 to prevent crankshaft rotation1.6L ZM engines. To installCrankshaft pulley and tighten the bolts to 109151 inch lbs. 1217 Nm. CMP sensor and check the air gap between the sensor and the plate teeth using a brass feeler gauge. If the gap is not 0.0200.059 inch 0.51.5mm adjust the sensor until the proper gap is reached. Crankshaft Front SealPrintFig. Remove the front engine seal by cutting the seal lip, then, so as not to damage the crankshaft, carefully pry the seal out with a prybarexcept Mazda 3 and 6 models. Crankshaft damper bolt and damper. Timing belt sprocket. Sprocket key from the crankshaft. Oil seal from the engine block using a prybarTo installNew oil seal lubricated with clean engine oil, drive it into the engine using an installation tool until it seats. Sprocket key onto the crankshaft. Crankshaft damper. Fig. Install the seal using an appropriate driver, which fits over the crankshaft snout and presses on the outside edge of the sealexcept. Mazda 3 and 6 models. Protege 19992000PrintNegative battery cable. Front exhaust pipe. Exhaust manifold insulator and the Exhaust Gas Recirculation EGR pipe. Fresh air duct and air cleaner assembly. Accelerator cable and bracket. All vacuum hoses. Engine wiring harness connectors. Fuel supply and return hoses. Intake manifold support bracket. Heater hoses. Camshaft pulleys by holding the them with a wrench. Camshafts. Cylinder head bolts in sequence. Cylinder head. To install. Fig. Cylinder head bolt removal sequence1.6L ZM and 1.8L FP engines. Fig.

Replace any bolts that exceed the maximum length1.6L ZM and 1.8L FP enginesFig. Cylinder head bolt tightening sequence1.6L ZM and 1.8L FP enginesBe sure the bolts turn freely in the block.New head gasket. Cylinder headA. Step 1 1316 ft. lbs. 1722 Nm. B. Step 2 Turn 8595 degrees. C. Step 3 Turn an additional 8595 degrees.Camshafts. Camshaft pulleys, install the pulleys so that the I mark on the intake side or E mark on the exhaust side are facing up. Torque the bolts to 3744 ft. lbs. 5060

Nm. Fuel hoses. Engine wiring harness connector. Any vacuum hoses that were removed. Air cleaner assembly and fresh air duct. EGR system. Exhaust manifold insulator and front exhaust pipe. Negative battery cable. Protege 1999 2000. Print. As a result, when the halfshafts are pulled from the transaxle, a battery. Air cleaner, air hose and resonance chamber. Heater and vacuum hoses. Radiator. Any rods, pipes or cables related to the transaxle that would hinder removal. Halfshafts. Power steering pump with the lines still attached and set aside. Air cleaner bracket. Battery carrier bracket. Number 1 engine mount. Refer to the accompanying illustration for location. Number 2 engine mount nut A. Engine mount member retainers. Number 2 engine mount. Refer to the accompanying illustration for location. Number 4 engine mount. Number 3 engine mount. Engine and transaxle assembly from the vehicle. To install. Tighten the fasteners to the specifications shown in the accompanying illustration. This may help in aligning the engine. Tighten the number 3 engine mount bolt and nut in the sequence illustrated, then tighten the mount stay bolt and nut A. Tighten the number 4 engine mount bolts A, then tighten bolts B. Tighten the fasteners to the specifications shown in the exploded view of. Number 2 engine mount nut A, then tighten the mount member bolt and nut. Tighten the fasteners to the specifications shown in the. Number 1 engine mount bolts A and then the bolt B.

Tighten the fasteners to the specifications shown in the accompanying illustration. Battery carrier bracket. Power steering pump. Any rods, pipes or cables related to the transaxle that were removed. Battery. Fill the cooling system. Back to Top. Exhaust Manifold. Print. Specific to. Mazda Protege 1999 2000. Negative battery cable. Air cleaner and air hose. Exhaust manifold heat shield bolts and the heat shield. Oxygen O 2 S sensor electrical connector. Exhaust pipe to exhaust manifold nuts and discard them. Exhaust Gas Recirculation EGR pipe from the exhaust manifold. Exhaust manifold nuts and bolts and discard the nuts. Exhaust manifold. To install. Exhaust manifold. Torque the bolts to 1416 ft. lbs. 1922 Nm on the 1.5L engine or to 2934 ft. lbs. 3947 Nm on the 1.8L engine. Exhaust pipe. Torque the new nuts to 38 ft. lbs. 52 Nm. EGR pipe. Torque the pipe to 34 ft. lbs. 47 Nm. Heat shield. Torque the bolts to 88 inch lbs. 10 Nm. Water bypass pipe. Torque the bolt to 4865 ft. lbs. 6489 Nm. Air hose and air cleaner. Negative battery cable. Specific to. Mazda Protege 1999 2001. Negative battery cable. Air cleaner and hose assembly. Water bypass pipe to engine block bolt, if equipped. Exhaust Gas Recirculation EGR pipe. Oxygen Sensor O 2 S from the exhaust system. Front exhaust pipe from the WarmUp Three Way Catalytic WUTWC converter. Exhaust manifold insulator. WUTWC converter from the manifold. To install. Exhaust manifold. WUTWC converter to the manifold. Front exhaust pipe from the WUTWC converter. O 2 S to the exhaust system. EGR pipe. Water bypass pipe to engine block bolt. Negative battery cable. Back to Top. Exhaust System. Catalytic Converter. Print. Use the illustration as a guide when servicing this. Fig. Exploded view of the exhaust system, showing the catalytic converters and oxygen sensor locations. 1.6L ZM engine. Back to Top. Flywheel. To install. Tighten the bolts to 7175 ft. lbs. 97102 Nm. Print. Tighten the bolts to 8085 ft. lbs. 108116 Nm. Fig.

Hold the flywheel with the tool illustrated. Mazda 3. Intake Manifold. Print. Drain the cooling system. Negative battery cable. Fuel hoses from the fuel rail. Fuel injector electrical connectors. Fuel rail with the injectors connected. Components in the order illustrated. To install. Fig. Cross-sectional view of the intake manifold gasket. 1.6L ZM engines. Intake manifold using a new gasket, make sure the convex side of the gasket faces the manifold. Torque the bolts to 1418 ft. lbs. 1925 Nm. Components in the reverse order of the removal sequence. Fuel rail. Tighten the bolts to 1418 ft. lbs. 1925 Nm. Fuel lines and electrical connectors to the fuel rail. Oil Pan. Oxygen O 2 S sensors. Integrated stiffener 1. Oil pan 2 and oil strainer 3 and the Main Bearing Support Plate MBSP 4. To install. Fig. Exploded view of the oil pan and related components. 1.6L engine. Fig. Apply a 0.0990.137 inch 2.53.5mm bead of silicone sealant to the MBSP and along the inside of the bolt holes. 1.6L ZM. Fig. Apply a bead of silicone sealant to new oil pan gaskets. Fig. . and install the gaskets onto the oil pump body and rear cover with the projections in the notches as illustrated. 1.6L ZM. Fig. Location

of the integrated stiffener bolt A1.6L ZM enginesFig. Location of the integrated stiffener bolts C and D1.6L ZM enginesInstall the gaskets onto the oil pump body and rear cover with the projections in the notchesInstall the gaskets onto theOil pan. Torque the bolts to 69.595.4 inch lbs. 7.910.7 Nm.Front exhaust pipeBack to Top. Oil Pressure Sensor. Mazda Protege5 20022003To installTighten the switch to 913 ft. lbs. 1217 Nm. Testing. Mazda Protege5 20022003Turn off the engine and wait until it and the engine oil have cooled. A. Remove the intake manifold bracket on 2.0L FS engines. B. Unplug the connector and remove the oil pressure switch. C. Screw an oil pressure gauge into the oil pressure switch installation hole. D. Start the engine to normal operating temperature.Back to Top. Oil Pump. Crankshaft pulley.

Timing belt cover. Timing belt pulleyAlternator. Oil pump attaching bolts. Front crankshaft seal from the oil pump, if the pump is being replaced. To installPush the seal in lightly be hand. Press the seal, with aNew Orings on the oil pump. Oil pump. Torque the bolts to 1418 ft. lbs. 1925 Nm. Air conditioning compressor bracket. Air conditioning compressor. Oil pan. Timing belt pulley. Positioning. Fig. Before removing the caps from the connecting rods, be sure to matchmark themMazda engines. PrintFig. Upper, spacer and lower oil ring identification and positioningMazda engines. Fig. Piston ring endgap spacingMazda enginesFig. Pistontoengine block mark location on the piston faceMazda 2.0L FS and 2.5L KL enginesBack to Top. Rear Main Seal. PrintNegative battery cableInstall a rag to the housing and using a prytool, carefully pry the oil seal from the oil seal housing.To installCoat the oil seal and the housing with clean engine oil.New oil seal into the housing by tapping it evenly into place with a hammer and a seal installer until it is flush with the edge of the rear cover. Back to TopPrintBack to Top. Timing Belt. Pulley using tool 49 D011 102 to prevent crankshaft rotation and remove the pulley bossFace the camshaft pulley marks I and E straightThe pin on the pulley boss must face upward. Hold the crankshaftRemove the crankshaft pulley boss.Do not rotate the crankshaft after the timing belt has been removed.Loosen the tensioner lockbolt and pry the tensioner outward. Tighten the lockbolt with theRemove the timing belt.If necessary, remove the idler pulley.Inspect the tensioner for free and smooth rotation. Check theReplace parts, as necessary.Fig. Remove pulley bolt and boss by using tool 49 D011 102 to prevent crankshaft rotation1.6L ZM engines. Fig. Turn the crankshaft until the timing marks on the crankshaft and camshaft sprockets are aligned. The pin on the pulley boss must faceFig. Loosen the tensioner lockbolt and pry the tensioner outward1.6L ZM engines.

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