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## 2.2 ecotec timing chain tensioner removal

saturnfans.com - classified - forums - webmail 03-27-2016, 01:09 PM #1 New Members Join Date: Mar 2016 Post: 6 2.2 ecotec time chain Hey guys, So I have saturn vue with ecotec 2.2 engine and last year at around 110k miles marked my timing loosened. Plastic guidelines are cracking and tension has failed. So we had mechanics replace chains and guides and tensions for almost a thousand. Now this year I have a problem with my compression in cylinder one. I'll take my head off and see if I have some twisted or jammed valves. I'll just run a little maintenance and deliver new gaskets, valves and spring if I need it, and change oil. But I also found a complete time chain set to steal at 50 bucks. It has sprocket cam, crank sprocket, guide, tension, all new bolts, etc... So I think it doesn't harm to replace all that again (because it gives me the same symptoms before compression problems). Now I'm pretty sure I can do the job without removing the machine because I don't have a crane, but I'm in college now and can't check what I need. My question is can you achieve all the necessary bolts? I know I can get to the bolt sprocket cam, does anyone know for sure if I can access the tensioner to the back of the engine and sprocket crank and bolt guide from the right front wheel well? Thanks for the input! -mech SaturnFans.com Sponsored Links 03-27-2016, 18:12 #2 Master Members Join Date: August 2012 Location: san diego Post: 4,355 2005 VUE 2.2L Re: 2.2 ecotec There time chain is a lot of the latest thread on the subject of TC tension – throw it into the search box (and other related things for a bunch of HOMEWORK SOPs for most of this work is timing (cloyes, I think rec'd), water pump and Tstat,..... and one thread talks about the 2007 ecotec tensioner being the best designed (and possibly backward compatible). What year and type of trans? ... '05, 2.2L, FWD 5-speed stick with transaxle death rattle is history,... '17 Suby Forester 245216 mi. VUE canceled to auction dealer I'm a secondhand vegetarian. Cows eat grass, I eat cows. 03-27-2016, 20:04 #3 New Members Join Date: Mar 2016 Post: 6 Re: 2.2 ecotec time chain yes I have done a lot of reading and Cloyes even made a fantastic video about the whole process with their kit. The only problem is that any thread or article I read will leave out whether the work can be done completely or not without pulling the machine. Again, I'm pretty sure it can, but I just want to know for sure from someone who has done it. Mine is vue 2005 automatic speed of Aisin AF33 5, 03-27-2016, 20:05 #4 Members Join Date: Jun 2014 Post: 87 Re: 2.2 ecotec timing chain Originally Posted by billysvue There are many of the latest threads on the subject of TC tension - throw it into the search box ( and the related things for a bunch of homework SOPs for most of this work are timing (cloyes, I think rec'd), water pumps and Tstat,..... and one thread talks about the 2007 ecotec tensioner being the best designed (and possibly backward compatible). What year and type of trans? Not trying to steal a thread... But the side question... I have 130k on my Vue 2005, same machine as in the thread, ecotech 2.2. I haven't changed the Timing Chain. Is it terrible not to play with fire? Good idea just to bite the bullet and replace it? And what are the symptoms of a failed time chain? Any way to check his current status? Good luck replacing the TC. 03-27-2016, 21:06 #5 Master Member Join Date: August 2006 Location: What is this paradise?... No, this is Iowa! Post: 3041 reign73 Photos Re: ecotec 2.2 time chain Originally Posted by Mech yes I have done a lot of reading and Cloyes even made a fantastic video about the whole process with their kit. The only problem is that any thread or article I read will leave out whether the work can be done completely or not without pulling the machine. Again, I'm pretty sure it can, but I just want to know for sure from someone who has done it. Mine is vue 2005 with automatic speed Aisin AF33 5. The service manual does provide instructions for replacing time components without removing the machine. However, the passenger side engine seat must be removed which requires the engine to be supported. So, yes, work can be done without removing the machine. In addition, only your FYI Vue does not have a 5-speed AF33 transmission. It was only installed on 2002-2003 models with V6 engines. The 2005-2007 model with w/4 cylinder engine and automatic transmission came the GM 4T45-E transmission and everything was just FWD. Originally Posted by TombedOrchestra Not trying to steal yarn... But the side question... I have 130k on my Vue 2005, same machine as in the thread, ecotech 2.2. I haven't changed the Timing Chain. Is it terrible not to play with fire? Good idea just to bite the bullet and replace it? And what are the symptoms of a failed time chain? Any way to check his current status? Good luck replacing the TC. I would recommend replacing the time chain tension if you haven't already. Besides, I won't do anything unless you know there's a problem with the time component. Removing the camera cover and checking the time component won't hurt though. Replacing oil every 5000 miles (which should be before the oil life meter instructs you to do it) or less would be a good idea and using synthetic oils would be ideal if you could afford it IMO. ... 2007 lon 2 Quad Coupe 5-speed manual mil \*gone\* 2007 Chevy Equinox LT 198K miles 2018 Chrysler Pacifica Touring L 56K miles 03-27-2016, 11:12 pm #6 Join New Members: Mar 2016 Posts: 6 Re: 2.2 ecotec timing chain chain Posted by TombedOrchestra Not trying to steal yarn... But the side question... I have 130k on my Vue 2005, same machine as in the thread, ecotech 2.2. I haven't changed the Timing Chain. Is it terrible not to play with fire? Good idea just to bite the bullet and replace it? And what are the symptoms of a failed time chain? Any way to check his current status? Good luck replacing the TC. Our model machines are renowned for experiencing time chain failures. A big contributing factor is that tension is poor design and (as previously stated) must be reproduced. Also, all guides are a kind of cheap plastic and they have been known to crack, but it is not common and all replacement sets including aftermarket such as Cloyes also use plastic. If I remember correctly you were supposed to serve the chain at 100k miles. No need for the whole replacement just check the guide is still in discretion and replace the tensioner quickly cheap and easy. I was lucky to get away with another 10k miles before my time chain stretched. Normal daily driving shouldn't do too many ways of stretching your chain but sharp acceleration can increase your chances. I will definitely at least replace the tension. Good luck with that! Last edited by Mech; 3-27-2016 at 11:24 p.m. 03-27-2016, 23:16 #7 New Member Join Date: Mar 2016 Post: 6 Re: 2.2 ecotec timing chain Originally Posted by ruley73 Service manual does provide instructions for replacing time components without removing the machine. However, the passenger side engine seat must be removed which requires the engine to be supported. So, yes, work can be done without removing the machine. In addition, only your FYI Vue does not have a 5-speed AF33 transmission. It was only installed on 2002-2003 models with V6 engines. The 2005-2007 model with w/4 cylinder engine and automatic transmission came the GM 4T45-E transmission and everything was just FWD. Thank you, that's what I need to know. I would read the manual myself, but as I said I was in college and so I looked on the internet but there was nothing I found mentioned removing the machine seat. I know there's a way to access the time cover and all that from the passenger side wheel well, but I'm trying to think of what's on the road just out of memory. All I can remember is that from when I replaced, my timesteps and hoses, I knew I couldn't see the engine block or the time cover so there had to be something. Thanks Ton 03-27-2016, 23:18 #8 Master Member Join Date: August 2012 Location: san diego Posts: 4,355 2005 VUE 2.2L Re: 2.2 ecotec timing chain I am all original, thank you ... '05, 2.2L, FWD 5-speed stick with transaxle death rattle is history,... '17 Suby Forester 245216 mi. VUE canceled to auction dealer I'm a secondhand vegetarian. Cows eat grass, I eat cows. 03-27-2016, 06:18 AM #9 Master Member Join Date: May 2008 Location: Rockford IL area Post: 2,396 1999 SL2 20 VUE 2.2L Re: 2.2 ecotec time chain I would argue that TC's problems are not due to guidance but guidance and TC failures are the result of water pumps driven by TC. Most likely the water pump starts to fail (long before leaking or noise) and the shaft starts to get a bit of play. If TC starts running a little of the excess kiter wear starts on the guide and so on and soon you have a total failure. I don't think the original EcoTec was ever meant to have a time chain but a time belt (which is MUCH more forgiving). If you look at the newer EcoTec engine (IIRC 2008 forward) they move the water pump outside the time box driven by the snake belt where it should have been all along. I seriously don't believe GM would have done that great redesign if they didn't believe the same with me that the original design was a bone head one... 2006 Toyota Highlander (rare 4 cyl AWD) 2001 Toyota Highlander V6 AWD Creampuff Princess got her own! Lexus ES330 Dream Ride 03-28-2016, 08:11 AM #10 Member Join Date: May 2015 Location: Carlisle, PA Posts: 215 2005 VUE 2.2L 2004 VUE 2.2L Re: 2.2 ecotec timing chain Originally Posted by Mech Engine our model is notorious for having time chain failures. A big contributing factor is that tension is poor design and (as previously stated) must be reproduced. Also, all guides are a kind of cheap plastic and they have been known to crack, but it is not common and all replacement sets including aftermarket such as Cloyes also use plastic. If I remember correctly you were supposed to serve the chain at 100k miles. No need for the whole replacement just check the guide is still in discretion and replace the tensioner quickly cheap and easy. I was lucky to get away with another 10k miles before my time chain stretched. Normal daily driving shouldn't do too many ways of stretching your chain but sharp acceleration can increase your chances. I will definitely at least replace the tension. Good luck with that! I'll be wary that the \$50 kit you find has the tension you want, on Amazon and ebay there is a kit that says increase tensioner that will be the one I think you want to get. now about \$60. or, have I seen cloyes without teeth for \$90? as others state the engine from above or below when you take off the seat on the passenger side. also, you have to remove the passenger tires and the plastic splash guard to access them all. but, it is really possible and recommended to do with the engine that is still in the car. 03-28-2016, 09:10 #11 Advanced Member Join Date: Feb 2016 NW Ohio Posts: 696 2003 VUE 2.2L Re: 2.2 2.2 My time chain is thinking of replacing mine as a precaution. I bought Vue which has an exchange engine/ and I am not ideal what the donor mileage is. I popped the valve cover and saw the guide, they looked OK as far as I could see. I checked out Rock Auto, The Cloyes without sprockets is \$78, with sprockets \$108. It can also replace water pumps and chains while I'm there. I assume from what I read in this thread that I can get to everything without pulling the motor. ... 2003 Vue - 2.2L with Trans Manual. (SWITCHED) It originally had a 2.2L and Auto trance. 03-28-2016, 11:44 #16 New Member Join Date: Mar 2016 Post: 6 Re: 2.2 ecotec time chain Originally Posted by billysvue Just that part? ok No I registered all the parts I replaced in the previous job (gasket head gasket valve cover, valve and springs if needed ...) I'm just talking about time in particular. I'll see and if everything looks fine then yes I won't mess it up too much. If necessary, I will repeat the time chain and sprocket and tensioner but it all depends on how it looks when I open it. 03-28-2016, 16:11 #20 Member Join Date: Nov 2011 Post: 82 2006 VUE 2.2L Re: 2.2 ecotec time chain Originally Posted by underthetood If WP failure doesn't worry why GM moved it? And why because it's been moved is there so much less FAILURE TC? Especially considering the machines are being used even more now. Also the smallest bearing shake on the shaft it will cause stress that is not sedanya on the chain. Think of your days by bike as a kid. If the crank pads (where the pedals are located) have the smallest number of games the chain is constantly off. Also if it's just an oiler causing problems why is EcoTec so vulnerable to these common failures BEFORE moving WP out of case time? With a belt there is MUCH more giving. Heck I have done a time belt where the water pump is very bad wide belt usually 1 has rubbed itself to 1/4 and the engine is still performing perfectly... 2006 Toyota Highlander (rare 4 cyl AWD) 2001 Toyota Highlander V6 AWD Creampuff Princess got her own! 2005 Lexus ES330 Dream Ride 03-28-2016, 02:03 PM #19 New Members Join Date: Mar 2016 Post: 6 Re: 2.2 ecotec time chain Originally Posted by billysvue Just that part? ok No I registered all the parts I replaced in the previous job (gasket head gasket valve cover, valve and springs if needed ...) I'm just talking about time in particular. I'll see and if everything looks fine then yes I won't mess it up too much. If necessary, I will repeat the time chain and sprocket and tensioner but it all depends on how it looks when I open it. 03-28-2016, 16:11 #20 Member Join Date: Nov 2011 Post: 82 2006 VUE 2.2L Re: 2.2 ecotec time chain Originally Posted by underthetood If WP failure doesn't worry why GM moved it? 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I'm just trying to offer a different point of view on this issue. This.

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