

Lieblweb's C5 Rocking Seat Fix

Vehicle Information: 2001 Corvette Coupe. We've only had the Corvette for a little over a month at the time of this write-up but have learned so much from other members of the Corvette online community that this is our way of giving back. We read several write-ups before attempting this fix, and pictures sure would have been a big help. Hopefully those of you with the rocking seat problem that have been putting off the repair will see that it really isn't too bad, and will give it a try. Let us know what you think via the email link, or on <u>www.corvetteforum.com</u>. Our user names on there are 'Sliebl' and 'Janster'.

Although this fix can most likely be used for any year C5 Corvette, your application may have subtle differences not shown in these pictures. Use our write-ups at your own risk. Please don't attempt these fixes if you aren't at least mechanically inclined. We take no responsibility for damage that may result from the use of our write-ups.

What is the Rocking Seat?: On many C5 Corvettes, the rubber isolators will wear out in the seat tracks causing the seat to rock backwards slightly under acceleration, and forward under breaking. How annoying! The "Easy Exit Seat" setting on memory package equipped Corvettes seems to exacerbate the problem with undue wear and tear on the rubber isolators. I'd recommend turning off this feature unless you really need it.

With our write-up you will not have to split the seat tracks apart. No removing the white ball bearings will be required!

Parts Required: 8 Nylon Washers total. 3/4" OD, 7/16" ID, 1/8" THICK. We got ours at ACE Hardware for \$0.30 each. Our ACE part number for these washers was 59558K. You can also find suitable washers at True Value, and some other home improvement stores. I have also read on various forums that ACE part number NYXH will also work. Again, it's not the part number that is important, it's the dimensions of the washer, and even then, you'll be changing that slightly. You will also need some grease to repack the aluminum block during reassembly. We used some Mobil1 synthetic bearing grease. Use whatever you have.

Tools Required: 15mm socket w/ratchet, T-20 torx socket, T-25 torx socket, T-40 torx socket, 1/4" wrench, small screwdriver, pliers.

Difficulty Level: I'd give this a rating of 2 out of 5 with 5 being the most difficult mods, and 1 being an oil change. Plan on 2-3 hours if you take your time. Have a buddy help you lift the seats out of the car to prevent damage to the door sills and surrounding trim pieces.

Note: Please do one seat at a time so you have a point of reference, should something not go back together correctly. Also, do one lead screw at a time, as one rod is reverse threaded. Make sure the lead screws go back in on the proper side of the seat. Click any of the small photos for a larger version.

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Pull the center part of the fastener towards the front of the vehicle. The fastener will pop right out.

You may need to get it started with a small screwdriver, and finish it with the pair of pliers. *Don't forget, you can click any of the pictures for a larger version to see more detail.*



Slide the trim pieces forward to reveal the 15mm nuts that need to be removed.

We actually found enough change to buy the \$3.00 worth of washers we needed for this fix!



Note: All the change is from the previous owner. What a slob.

Step 3: Remove Two Front Seat Mounting Nuts

There are two 15mm nuts that need removed. Slide the seat backwards if you don't have enough room to remove them.



Step 4: Slide Seat Forward and Raise to Highest Setting

This step is VERY important. Make sure the seat is as far forward as it will go, and raised as high as it will go. Not performing this step may cause the seat to bind when you reinstall the lead screw later.





Step 9: Drivers Side Harness Detail (for when you get to this side)

As mentioned in step 7 above, the drivers seat has two harnesses, and the passenger side only has one. Remove the second harness just like the first one once you get to the drivers side.

Now, back to the passenger side removal.

Step 10: Remove the Seat



Congratulations. You are ready to remove the first seat. Get a friend to help you with this step. Please be careful not to scratch your door sills, or trim panels with the seat tracks. Carefully lift the seat up and out of the vehicle. It's easiest if you have the top removed on a coupe, or top down on a convertible. Sorry FRC/Z06 guys, you'll have to deal with the roof. Once the seat is out, place it on a clean towel or sheet to protect the leather. Now is also a great time to clean the carpets and do a full detail to the seat with leather cleaner/protectant.

PLEASE WORK ON ONE SEAT TRACK AT A TIME!



Step 11: Use Masking Tape to Mark the Tracks

By wrapping masking tape around the seat tracks, you can verify that you have the Lead Screw adjusted correctly during re-assembly. Don't forget to slit the masking tape so the seat tracks can slide. If you have followed the early steps regarding the seat being placed at the full forward position, you won't need this, but it can't hurt to do it just for piece of mind. This first track was the only one of the four we used the masking tape on.



Step 12a: Remove Cover on Seat Track

If you are working on the outside seat track, you will need to remove the cover that hides the two Torx T-25 screws. Gently pry up one end of the cover and it will slide out of the way.



Step 12: Remove Two Torx T-25 Screws Securing the Aluminum Block

Remove these two screws in the middle of the seat track and set them aside.



Step 13: Remove One Torx T-40 Bolt Under the Seat Track

This was a bit tricky. Click the picture and look at the large image. This bolt is in the underside of the back portion of the seat track where the back of the seat hinges to the seat bottom.

We used a T-40 socket that is about 1.5" tall. That is all the room you will have to get a tool on this bolt. We grabbed the T-40 end of the socket with a combination wrench (1/4") and the bolt came right out. The next track wasn't so easy. We ended up with the same wrench arrangement and a vice grip on the socket. We also used a screwdriver to pry the socket up into the bolt head so as to not strip it out. That worked great. A drop of PB Blaster on the bolt doesn't hurt either. Be careful around the leather.



Step 14: Remove Two Torx T-20 Screws Near the Front of the Seat Track

These two screws affix the 90 degree drive mechanism to the seat track. Remove the two screws and sit them aside.



Step 15: Remove Drive Mechanism

Once the two T-20 screws are removed, the drive mechanism will basically fall out. Leave the square drive shaft that drives the Lead Screw in the mechanism. Sit it aside.



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Step 16: Remove Lead Screw and Aluminum Block Assembly

Use this picture and the one in step 17 to help with this step. Once all the screws are out the Lead Screw will basically just slide out the back of the seat track. See Step 17 for a tip.

Step 17: Trick for Removing Lead Screw Assembly

Slide the track towards the front of the seat. Once lowered, place a small screwdriver in one of the T-25 screw holes in the Aluminum Block. Lift the track back to it's original position and the Lead Screw assembly will be lifted up towards the rear of the seat track. It can now be removed. See Step 18.



Step 18: Slide Lead Screw Assembly Out from the Rear of the Track

Slide the track out and take it to a clean work area. Work on cardboard or paper towels, this is a little greasy!



Step 19: Aluminum Block Close Up View

This picture shows a close up of the removed seat track Lead Screw and Aluminum Block. You can also see the Rubber Isolators that are the cause of the Rocking Seat problem. Please take note of the gray Nut in the middle of the Aluminum Block. It has a peak on one side that faces out as pictured. During reassembly, make sure this peak is still visible so you know you are putting it back together correctly.

Also, note the location of the Aluminum Block on the Lead Screw. It should be all the way to one end. You'll reassemble it exactly the same way.

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Step 24: Reassemble the Aluminum Block



When you have the washers sanded down to a zero clearance fit, you are ready to reassemble your Aluminum Block. After cleaning out most of the old grease, relube to Aluminum Block with a bit of grease. I also applied grease to the individual washers to make reassembly easier. Place the washers on either side of the nut with the flat spots going in first. Push them into the bottom of the block. The Nut should be placed so the peak is facing out of the Aluminum Block. See Step 19 for a detailed picture of that.

MAKE SURE THE WASHERS DO NOT STICK OUT OF THE ALUMINUM HOUSING HIGHER THAN THE PEAK IN THE NUT. IF THEY DO, SHAVE THEM DOWN SLIGHTLY. (Thanks JOHDVETTE)



Step 25: Reinstall Aluminum Block Onto Lead Screw

Wipe excess grease off of the Lead Screw, and relube with new grease before threading on the Aluminum Block assembly.



Step 26: Thread Aluminum Block Assembly All The Way Up The Lead Screw

Turn the Aluminum Block all the way up the lead screw until it contacts the bearing at the other end. Back it off ever so slightly. It's should look just like the picture on the left. Note the orientation of the block to the flat mounting area on the end of the lead screw. Adjust the Lead Screw until it looks like this.



Step 27: Reinstall Lead Screw Assembly Into Seat Track

Pull the track upwards and drop the lead Screw Assembly into the track. Please note the orientation of the assembly during installation. From here you align the bottom of the screw assembly into the pocket it came out of. See step #16 for this photo. Reinstall the T-40 Torx bolt using the same technique you used to remove it. Follow this up with the two T-25 screws. Now, reinstall the 90 degree drive mechanism and it's associated T-20 screws. If the drive mechanism does not engage the lead screw properly, you might have to rotate the Lead Screw a fraction of a turn to get the square drive shafts to line up.

