



OFF YOUR ROCKER



Want more power from your engine, but you already have every external bolt-on known to man? Try some Yella Terra Stealth Rockers

**DO IT
YOURSELF**

When you're talking about getting more power out of your engine, it's all about airflow. Get the good gases in and get the bad gases out. Controlling this airflow is the camshaft, which is essentially the brain of the engine. Changing the camshaft for one with larger lift and duration will allow more air both into and out of the engine.

What if you're not mechanically minded enough to change a camshaft? You could pay a mechanic big bucks to do the job, but with modern engines the way they are, changing a camshaft in a pushrod V8 tends to be a long and labour-intensive job.

There is a solution: you can change the lift and duration of your intake and exhaust

valves to a certain extent, without changing the camshaft. High-ratio rockers are the answer, and when you're talking about installing a set of Yella Terra's quality Stealth Rockers, the job has no downside. Not only do you have the benefit of additional lift and duration, but there is also the low-friction benefit of the roller-tipped rockers themselves. By using a high-ratio rocker pivot, the new rockers will lift the valve quicker and higher.

The rockers are a breeze to fit, and even the slowest, most simple-minded mechanic can install them in less than two hours, so some of you guys should breeze it in. There's no adjusting of lash or setting of lifter preload, it's simply a case of set and forget.

In fact, the only downside was the supplied

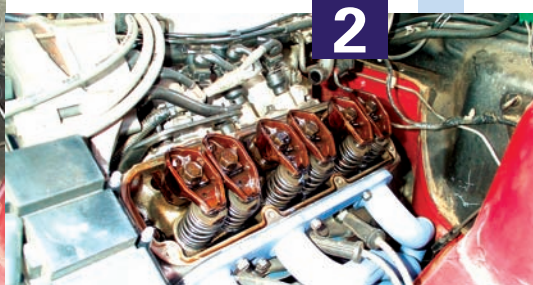
instructions were vague and extremely unhelpful, but we took the plunge, discarded them, and fitted the rockers without them. So, check out our installation of Yella Terra Stealth Roller Rockers to our V6 Vengeance project car.

As we have noted in the V6 Vengeance story, our valve springs have been under considerable strain and these rockers certainly didn't help things. The engine was developing valve bounce at 5700rpm. We gained almost 12kW at the rear wheels when the Stealth Rockers were fitted along with Pacemaker Auscar-style headers. This was a gain of over 10 percent at the rear wheels, which is roughly what Yella Terra claims. Not bad at all for something that will cost you less than \$600 and a few hours on the spanners.



1

Pulling the rocker covers off is as simple as removing six bolts. Things are made much easier by also removing the intake pipe for clearance



2

Once you have the rocker cover off, this is what you will be faced with. It's all pretty simple stuff really



3

We checked between the coils of the valve springs to ensure there was enough clearance for the additional lift



4

Removing the rockers is just a matter of removing the six retaining bolts in the centre of the rocker pivots



5

The pushrod guide plate, shown here in the photo, is removed when installing the new rockers. This wasn't clear at all in the instructions, so we made some measurements and decided it wasn't meant to be there



6

With the additional height of the roller rockers, these rocker cover spacers become necessary, so give them a good coating in RTV silicon to prevent annoying oil leaks



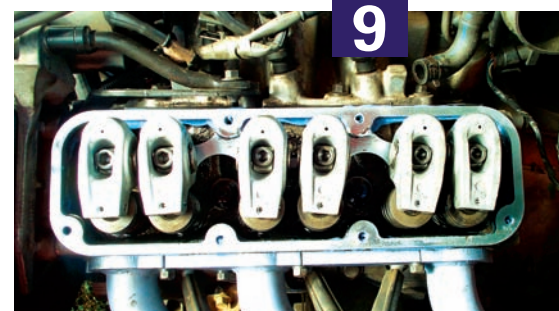
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Then you just sit the spacer in position. Note which way is up in regards to the welds that hold the centre section in place



8

We used a rocker at each end to help locate the spacer plate in position. Don't tighten anything until you have everything in place



9

With all the rockers in position, it's time to tighten everything up. An appropriately sized allen key will do nicely



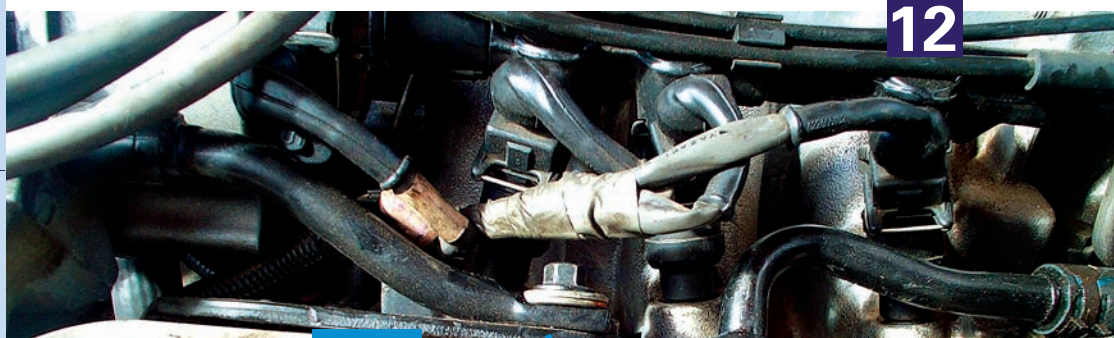
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Some rockers will be compressing their relevant valve springs, so check for any sign of coil bind or clearance issues with the retainers



11

We also made sure there was enough clearance between the coils after the install. Although there was enough room, we were putting a lot of strain on the standard springs, which caused some valve bounce at 5700rpm. Remember we also have a Crow cam fitted; fitting the rockers alone will not cause this problem



12

The only clearance issue we had was with this bolt. With the rocker covers now sitting slightly higher, we used a couple of washers for a simple fix, but we will shorten the bolt when we have time

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