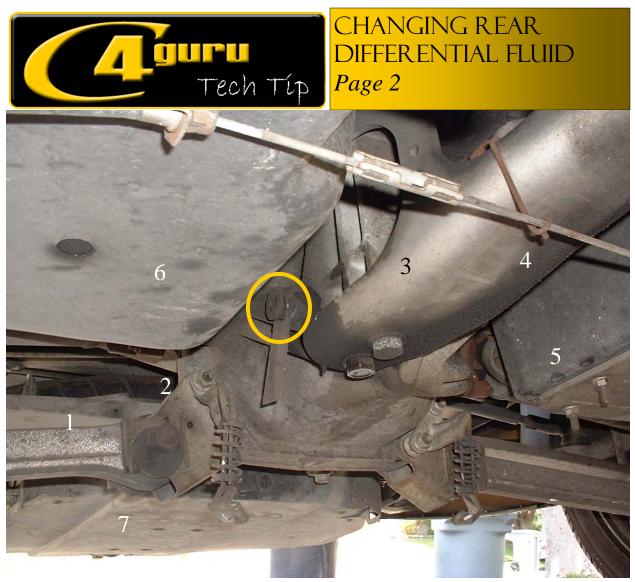
Tech Típ	CHANGING REAR DIFFERENTIAL FLUID By Andy Bogus, Editor
Overview	Parts Needed
This is an interesting reality - GM does not have a service interval for the rear differential fluid. Personally, this is rather odd.	 Two bottles of GM differential additive Gear oil—GL-5 rating 75/90 weight
Some gear oils already come with the additives built in, check the packaging to be sure which lube you have.	
The two bottles of differential additive are a rec- ommendation given by none other than Gordon Kellebrew. Mr. Kellebrew helped write the Fac- tory Service Manual and is considered the fore-	Gear oil is available at most auto parts shops. I suggest you get one of the brand names, Mobil and Valvoline are a couple of sugges- tions.
most authority on the fourth generation Corvette.	Time and Effort
There are two types of rear differentials used on the Corvette. Within those types, there are many different ratios, but for our needs, we only need	<i>How long:</i> One hour <i>How hard:</i> Easy
to be aware that the two types exist.	Models Affected
In 1984, all rear differentials were Dana model	All years.
36. Starting in 1985, all manual equipped Corvettes came standard with the Dana model 44.	Tools Needed
The Dana 44 was never made available from the factory with an automatic equipped car.	 Jack stands and a floor jack or ramps Transfer pump 10mm hex socket or pipe wrench
The difference is the size of the ring gear. The Dana 36 uses a 7.5" ring gear, and the Dana 44 uses an 8.5" ring gear. That larger ring gear al-	
lows for more ratio options (up to 4:11:1) and a stronger differential housing.	
Proper maintenance will allow this expensive and important component to last a long, long time.	starting the project!
REMEMBER: Always raise and secure the car safely!!! Use jack stands or ramps to better secure the vehicle.	



This is the rear differential of a 1992 Corvette with an automatic transmission. All years look the same, regardless of the transmission.

The factory did not install a drain plug. If your car has one, it's because someone added it. All fluid is transferred via this plug (circled in yellow). The plug is on the right side. I removed the exhaust for other projects and does not need to be removed for this task.

Some parts to point out:

- 1. Spindle Rod (the lower control arm)
- 2. Alignment Cam
- 3. C-beam
- 4. Parking brake cable
- 5. ABS/ASR storage bin
- 6. Storage bin
- 7. Spare Tire





This is a Mity Vac Fluid Transfer Pump. It is available at most automotive parts stores and Sears. Expect to pay about \$13.00 for one.



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Removing the plug can be tricky.

Technically, a 10mm hex key will fit, but, the space is tight. I have found that using a pipe wrench is a very effective way of removing the plug. Not perfect, sure, but effective.

Transferring the fluid is as easy as inserting a hose into the hole.

Pump out the old oil, reverse the hoses on the pump and fill with the two bottles of additive, topping off with gear oil until full. It takes about two quarts. Reinstall the plug, lower the car, and it's done!

Conventional wisdom suggests the gear oil should be changed every 30,000 to 50,000 miles, depending on driving style. If you race, I would suggest more frequently.

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