

ZR-1 Weight Reduction

Haibeck Automotive Technology

www.zr1specialist.com

For off road racing use.

This list has just a few fresh ideas, however, it shows how little things can add up.

Remove:	Weight Reduction
Spare tire.	- 37.
Jack.	- 6.
Jack handle.	- 2.
Tire bag.	- 3.5
Spare tire carrier and the brackets.	- 9.5
Windshield washer tank full of solvent.	- 6.5
Storage compartment tray.	- .5
The security shade.	- 4.5
AIR pump.	- 5.
AIR pump tubes, hoses and valve.	- 2.5
Replace hood solid hinge shims with stubs of tubing.	
Cut off the unused arms on the hinges.	- 2.
Fuel tank retainer cable. This is a safety item.	- 1.
The fuel vapor canister, check valve and hose.	- 2.
Install a Delco 70-6YR battery	- 7.
Drill 100 1/2" holes in the skid bar. This is a safety item.	- 4.
Cruise servo motor.	- 1.
The rock guards for the front springs.	- 1.
Aluminum water pump pulley.	- 1.
Remove the brace from under the steering column.	
This is a safety item.	-1.
Remove the braces between the headlight motor and the hood hinge.	- .5
Install two piece Wilwood front brake rotors.	- 4.
Install two piece Wilwood rear brake rotors.	- 3.
	Total -104.5 pounds.
For '92 and up cars:	
ASR servo motor.	- 2.
For '93 and up cars:	
EGR valve and bracket.	
A special engine calibration is required.	- 5.
Remove the secondary intake port throttle system.	
A special engine calibration is required.	- 5.

Wilwood two piece front rotors. - 4.
Wilwood two piece rear rotors. - 3.

A weight reduction of 100 pounds will change the power to weight ratio enough to make the car about .1 second quicker in the quarter mile. Of course, handling is also improved. The power to weight ratio of a 3500 pound 400 hp ZR-1 is $3500 / 400 = 8.75$. Removing 8.75 pounds is the same as adding 1 horse power.

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