

## Differential Gear Protection

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Those who have already looked under the vehicle (I assume all of you) will notice rapidly that the two gear differentials are quite exposed and provide an easy target for stones and rocks. Although the differentials are massively built, they can nevertheless sustain damage.



The spare part industry provides various solutions to protect the gear differentials. Depending on the activity and the driving style (i.e. trail driving) a more robust solution is recommended. One that surrounds the whole differential and has some gliders at the bottom to let the vehicle slide when touching stones or rocks. Potential disadvantage of this solution is (I heard) that the oil in the differential warms up more rapidly as the heat cannot so easily get away. For cost efficiency, it is also important to think about whether a heavy protection for both gear differentials (front and rear) is really necessary.



I opted for a simple solution that only includes the front gear differential that is normally first affected (I am not a trail driver). It is a protection that is mounted with a stretching screw to the gear differential. Nevertheless, the protective case should consist of at least 5 mm galvanized rust-proof steel panel so that the necessary stability is guaranteed. When heavily impacted, the protection can be catapulted off and get lost. However, it has already protected the gear differential and therefore done its job.



Other, more massive solutions, consist of an all around protection but can cost quite some money (up to 190 Euro per piece).

