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- 1) Sheet metal body is 8 mm thick Steel C30 that is laser cut with CO2 laser. Two holes are threaded to M8 course thread 6h tolerance class and chamfers are CNC machined. Tolerance class is IT7 for dimensions and geometry such as plate flatness and surface quality.
- 2) Bolts used in the kit are ISO 4017 M6x20 class 8.8(2x) and ISO 4017 M8x16 class 8.8 (2x). Washers are ISO 7093 6x18 (2x) and ISO 7089 8x16. The OEM uses M6 bolt to mount to the chassis, this is upgraded to M8 as the cable is now mounted to the supplied bracket for less misalignment.
- 3) The cables (if ordered) meet OE replacement part standards

Design process involves calculating loads at different suspension mounting points during cornering and braking scenarios and applying them to design models using Finite Element Analyses and the topology is optimised to meet minimum 4x safety margin for material stress.

The maximum material stress is 45 MPa and maximum deflection is 0,06 mm with rigid mount, chassis flex may be greater. The safety margin for the plate is 5,6 times (C30 Yield strength is 250MPa, ultimate tensile strength 480 MPa).

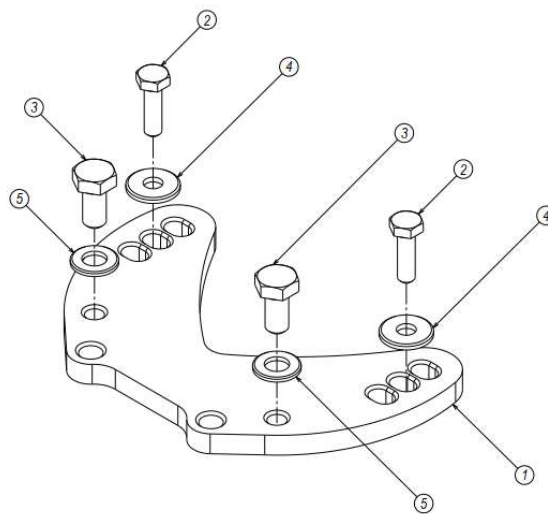


Figure 1. GKtech handbrake cable adapter