

Reman Design Checklist

What? Summary and purpose of the tool

The Reman Design Checklist is a multiple-choice checklist to assess the remanufacturability of a design concept and to compare two design variants. Products and their parts are scored on a five-point scale via ten questions to determine their remanufacturability. Questions include “Is the part easy to separate?” and “What is the anticipated quality of this part after normal use?”. The questions are multiple choice and the tool supplies an instant score at both part and product level for the remanufacturability, and where needed shows improvement areas. In preparation, an excel file of the bill of materials at the part level needs to be prepared and imported. Two to three hours are then needed to score the parts and products and discuss implications for design changes with team members.

Why? Reasons to use the tool

The Reman Design Checklist provides engineers with a quick assessment tool that gives fast results, is excel-based, and fits into existing workflows. It can facilitate companies to involve their core engineers in the process of considering part suitability or ease of remanufacturing. Additionally, the tool can embed the exchange of knowledge between the engineers and the remanufacturing department.

When? Situations for which the tool would be useful

The Reman Design Checklist is useful for design engineering teams in the early (re)design stage of a product for which there are remanufacturing (or refurbishing) plans. It is particularly applicable in situations when the collaboration between engineering and other departments needs to be facilitated.

