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Cultural Change In The Collision Industry

Discussion Topics

High Performance – High Demands

Technical Quality of Collision Repairs

Different Approach Required

Changes In Structural Repair

High Performance



Top Track Speed: 345 km/h



Top Track Speed: 279 km/h



Top Track Speed: 330 km/h



Top Track Speed: 287 km/h



Top Track Speed: 308 km/h



Top Track Speed: 254 km/h



Top Track Speed: 283 km/h



Top Track Speed: 259 km/h

High Demands

Lightweight, high performance vehicles demand high performance repairs

Vehicle repaired as per Porsche remains a Porsche

Vehicles repaired otherwise become the liability and responsibility of the repairer

Audience Question

Our collision center uses structural repair equipment to measure the body shell during the damage diagnosis / disassembly process, before parts are ordered.

Old Way

Vehicle structure examined only visually or measured in very basic way

“Give me the part and I’ll figure out what to do with it”

Vehicle Design

Multi-material body shell construction

Fewer body parts can be repaired

Industry is moving toward component replacement

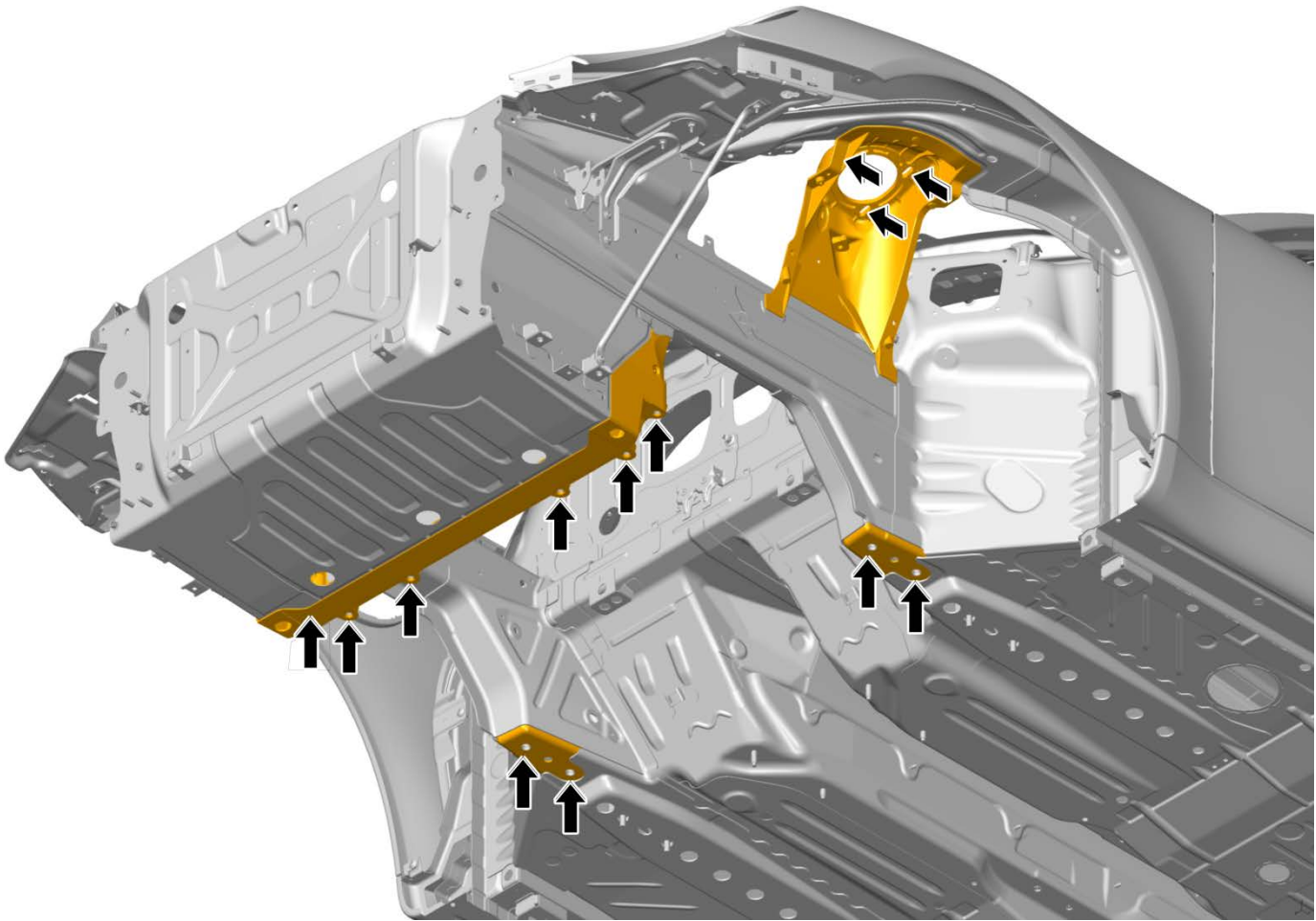
Cultural Change

Perform thorough damage analysis

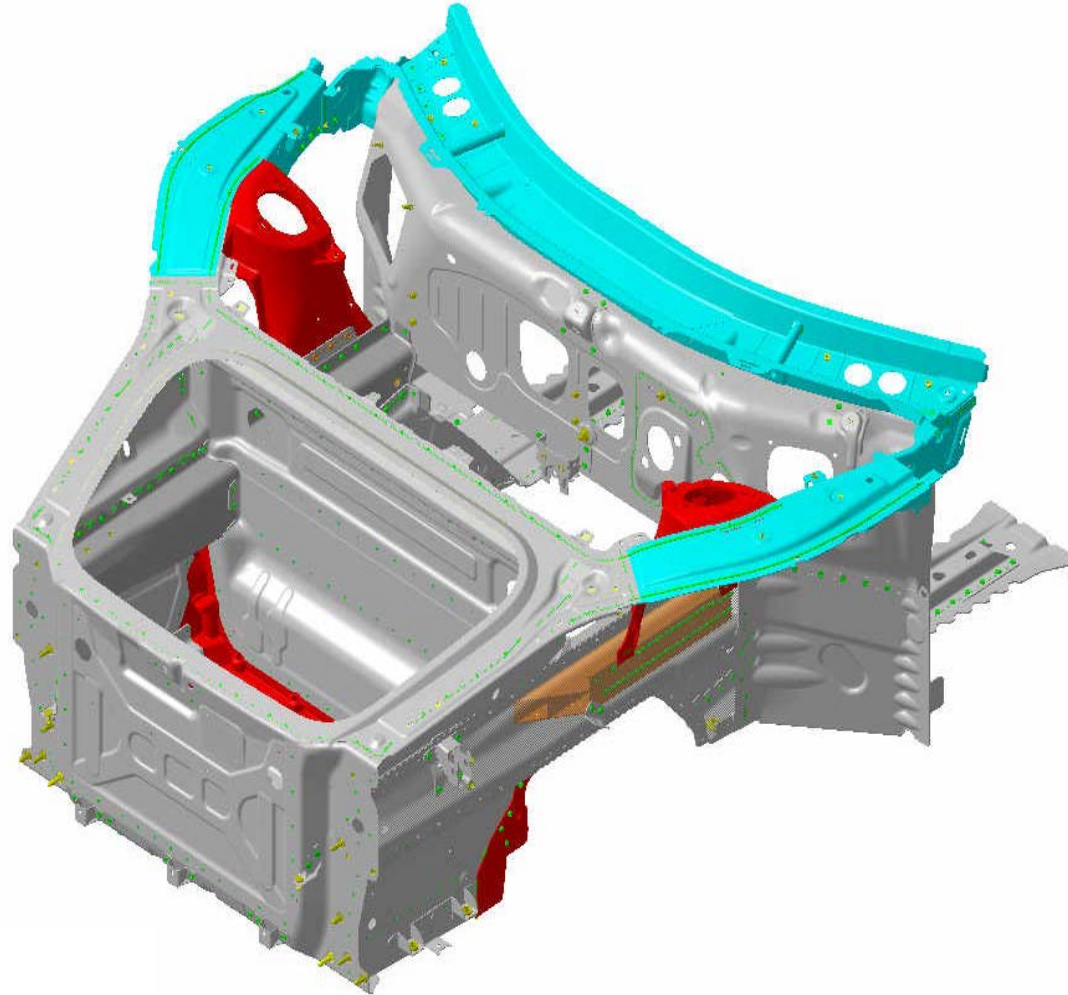
Build repair plan based on OEM published repair instructions

Execute OEM published repair instructions

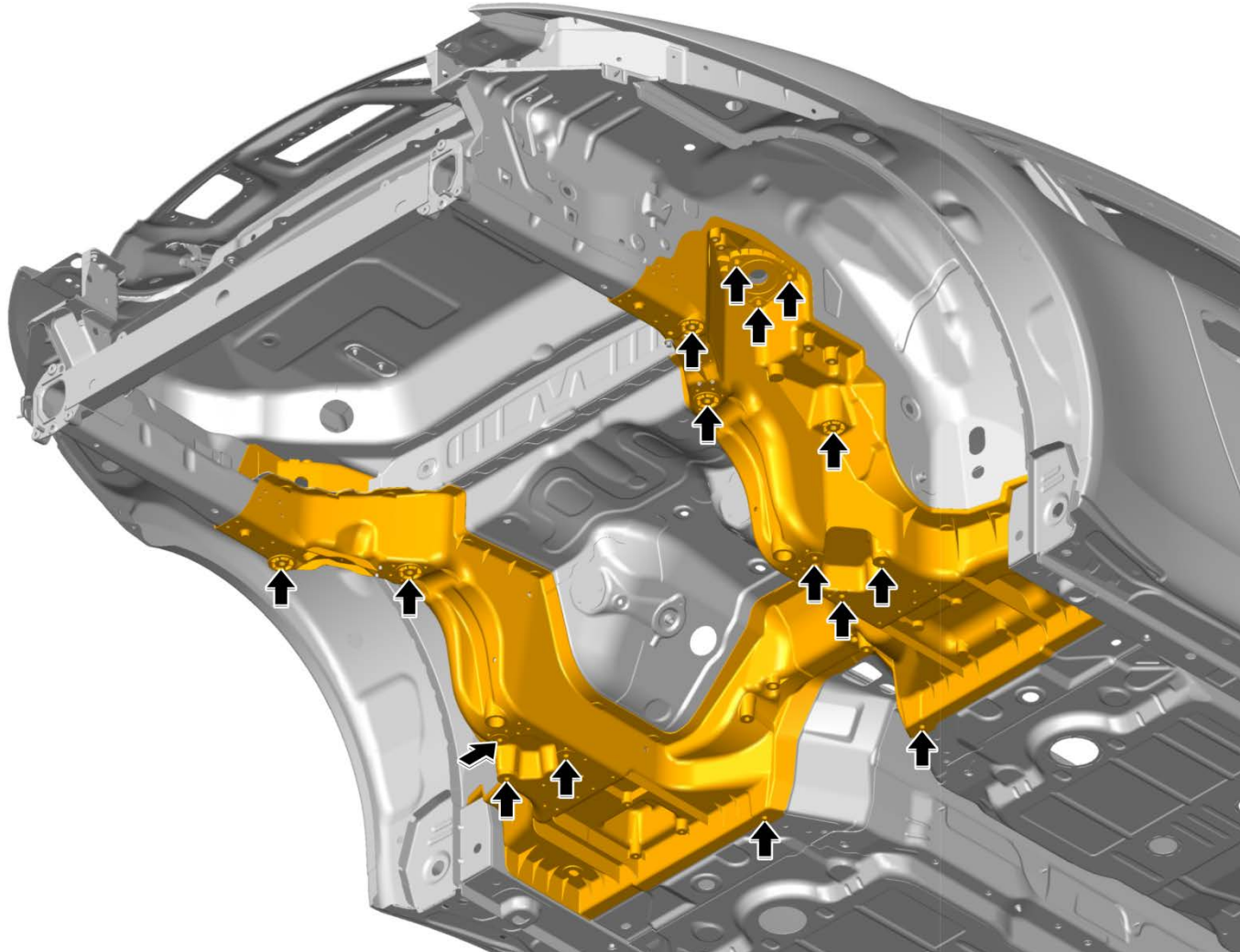
Damage Analysis



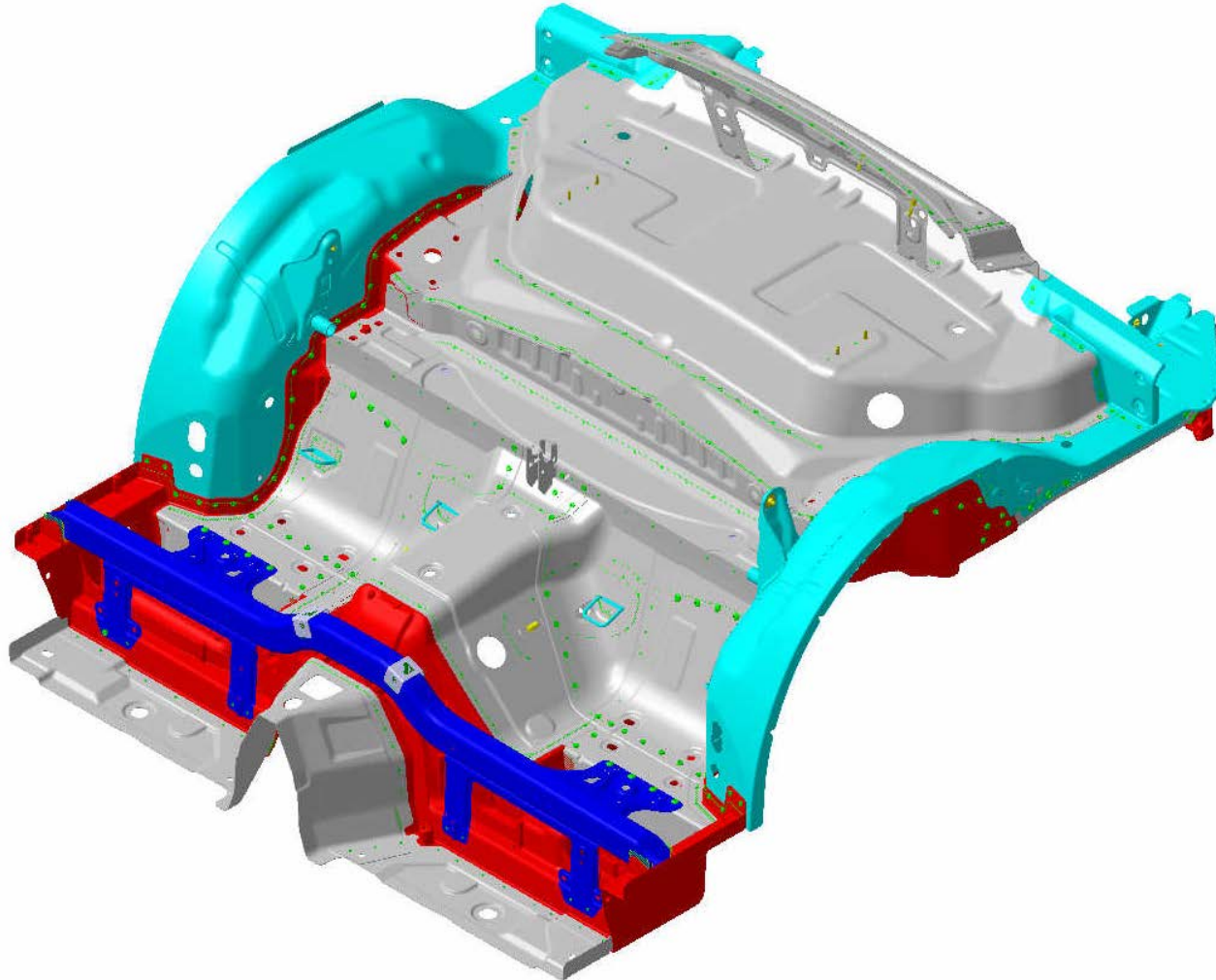
Damage Analysis



Damage Analysis



Damage Analysis



Repair Planning

Situation:

Structural straightening not allowed on some models

Many OEMs have a limited number of documented repair possibilities

Effects:

Repairs without the possibility of structural straightening requires a different approach

OEM work instructions must be consulted prior to ordering parts / beginning repairs

Results of Ignorance or Defiance

Possible change to the crash properties of the body shell

Possible damage to structurally bonded areas

Possible damage to mechanical fasteners

Possible damage to anchoring points

Likelihood of unintended consequences

Manufacturer Published Repair Instructions

Only the manufacturer has the data to validate repairs

Ensures longevity of vehicle in service

Ensures safety of vehicle occupants in subsequent collision events

Repairers and insurers don't have the data to back up alternative repair procedures

Review

High Performance – High Demands

Technical Quality of Collision Repairs

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Thank You For Your Attention