

APPENDIX EV-3 ORGANIZED LIST OF SYSTEMS & ASSEMBLIES

The 2017 FSAE TM Cost Report must follow the organized list of systems and assemblies/parts outlined below.

Whereas ratio change transmissions in IC Vehicles are included within the engine cost, most Electric Vehicles do not incorporate such integral systems, therefore, any EV utilizing a separate transmission must cost this assembly and include the cost in Section 2) Motor and Drivetrain.

The two letter abbreviation after each system name is to be used in the part number.

1) Brake System - BR

- Brake Fluid
- Brake Master Cylinder
- Fasteners
- Brake Lines
- Brake Discs
- Brake Pads
- Balance Bar
- Calipers
- Proportioning Valve

2) Motor and Drivetrain – EN

- Axles
- Chain / Belt
- Coolant
- Coolant Lines
- Cooling Fans
- CV Joints/U Joints
- Differential
- Differential Bearings
- Differential Mounts
- Electric Motor(s)
- Motor Mounts
- Motor/Diff Lubricating or Cooling Oil
- Oil Coolers/Radiator/Heat Exchangers
- Overflow Bottles
- Shields
- Sprocket/Pulleys
- Transmission/Mechanical Drivetrain ratio change assembly

3) Frame & Body - FR

- Aerodynamic Wing (if used)
- Body Attachments
- Body Material
- Body Processing
- Clutch

Floor Pan
 Frame / Frame Tubes (Including any Electrical Systems Protection Frame/Bodywork)
 Mounts Integral to Frame
 Pedals
 Shifter
 Shifter Cable/Linkage
 Mechanical Motor Control/Pedal
 Tube End Preps
 Tubes Cuts/Bends

4) Electrical – EL

Accumulator Container
 Battery – General Purpose
 Battery - Traction
 Brake Light
 Bulbs
 Instrument Panel
 Electronic Control Modules
 Fuses
 High Voltage Distribution/Harness/Connectors
 Indicator Lights
 Isolation/Disconnect/Shutdown Controls
 Low Voltage Distribution/Harness/Connectors
 Motor Control System
 Warning Gauges/Lights/Sounds
 Relays
 Solenoids
 Start Up System
 Tachometer
 Water Temperature Gage

5) Miscellaneous, Finish and Assembly – MS

Driver's Harness
 Fire Wall
 Headrest / Restraints
 Mirrors
 Paint – Body
 Paint – Frame
 Seats
 Shields

6) Steering System – ST

Steering Rack
 Steering Shaft
 Steering Wheel
 Steering Wheel Quick Release
 Tie Rods

7) Suspension System – SU

Bell Cranks
Front A/Arms or Equivalent
Front Uprights
Pushrods/Pullrods
Rear A/Arms or Equivalent
Rear Uprights
Rod Ends
Shocks Front
Springs
Suspension Mechanism

8) Wheels, Wheel Bearings and Tires - WT

Front Hubs
Lug Nuts
Rear Hubs
Tires
Valve Stems
Wheel Bearings
Wheel Studs
Wheel Weights
Wheels