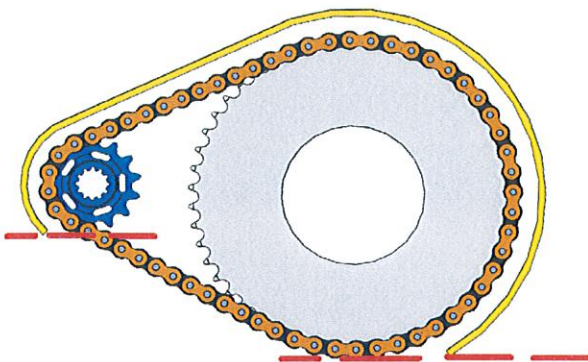


T7.4 Brake Light

- The car must be equipped with a red brake light. *The brake light itself must have a black background and a rectangular, triangular or near round shape with a minimum shining surface of at least 15 sq.cm.*
- Each brake light must be clearly visible from the rear in very bright light.

T8.4.1 Drive Train Shield



- Exposed high-speed final drivetrain equipment such as Continuously Variable Transmissions (CVTs), sprockets, gears, pulleys, torque converters, clutches, belt drives, clutch drives and electric motors, must be fitted with scatter shields in case of failure. The final drivetrain shield must cover the chain or belt from the drive sprocket to the driven sprocket/chain wheel/belt or pulley. The final drivetrain shield must start *and end* parallel to the lowest point of the chain wheel/belt/pulley. (See figure below) Body panels or other existing covers are not acceptable unless constructed from approved materials per T8.4.3 or T8.4.4.

Note: If equipped, the engine drive sprocket cover may be used as part of the scatter shield system.

IC1.5.7 & IC1.5.8 Throttle System

- IC1.5.7 The throttle pedal cable *must be protected from being bent or kinked by the driver's foot* when it is operated by the driver or when the driver enters or exits the vehicle.
- IC1.5.8 If the throttle system *contains any mechanism that could become jammed*, for example a gear mechanism, then this *must be covered to prevent ingress of any debris*.

IC2.1 Fuel

Fuel

- The basic fuel available at competitions in the Formula SAE Series is unleaded gasoline. For the FSAE North American competitions this should have an octane rating of *91 (R+M)/2 (approximately 95 RON)* minimum and for other competitions, the unleaded gasoline that will be available will be published by the relevant organizing committee. However, the basic fuel may be changed at the discretion of the organizing body. Other fuels may be available at the discretion of the organizing body.

Presenter's comment: However, Note 2 in the Rules, has not been updated and still mentions 93 and 100 octane fuels.

S3 Business Logic Case

FSAE BUSINESS LOGIC CASE 20XX

Institution/Team Identification: _____

Analysis of Market Data

Enter your market related analysis here. (Assessment of competition; Price/Volume approach;)

Company Strategy

Enter your strategy statement here. (This should flow from Market analysis to your selection of vehicle positioning and your approach to overall vehicle concept).

Target Selling Price	Eg. 35,000
Target Vehicle Production Cost	Eg. 30,000
Target Production Volume (from Table 1)	Eg. 50
Target Annual Profit	Eg. 300,000
(Any Other targets team has identified as critical to achievement of strategy success)	

Vehicle Strategy & Performance

Enter your performance analysis/benchmarking leading to the specification of the various aspects of vehicle performance required to achieve the target price and sales volume. Broad vehicle concept, Power/Weight ratio;

Plans for Efficient Design (and Manufacture)

Consider possible compromises between design for performance and design for manufacture/cost and outline your initial concept that will then be followed in your detail design in order to achieve the target performance, price and profitability. Summarise any conclusions and rationale.

Key Design Features		Key PerformanceTargets	
Chassis/Body Type	E.g. carbon tub; steel tube	Accn. 0-75 Metres	
Power train type	Eg IC engine / electric	Lateral Accn. (g)	
Power / engine	Eg. 600cc twin 80bhp / electric motor – 50kW	Fuel Economy	
Target weight, kg		Other critical performance targets – (team decides)	
Other Key Feature (Team decides)			

Questions?