

ABC Bicycle Handbrake Subsystem FMEA

Evaluation of Quality Objective for Timing

The quality objective for addressing the timing of FMEAs will be evaluated by examining the Hand Brake subsystem FMEA and determining how well it meets the corresponding criteria.

EVALUATION

Quality Objective 12: The FMEA is completed during the “Window of Opportunity” where it could most efficiently impact the product design and the test plan (for Design FMEAs) or the manufacturing process (for Process FMEAs).

Evaluation Criteria

Assess how well the ABC Bicycle Handbrake FMEA meets Quality Objective # 12

Rating	1	on a scale of 1 to 5
Evaluation 1	Question: Was the FMEA completed through Recommended Actions, Actions Taken, and risk reduced to an acceptable level? Evaluation: No, the second FailureMode / Cause is not addressed	
Evaluation 2	Question: Was completion of FMEA before corresponding program benchmark? Evaluation: No, Design Freeze is 3/1/2025, and the two FM/Cs that had risk reduced to "low" were completed by 3/14/2025.	
Evaluation 3	Question: Did the FMEA team have a proper understanding of the rationale for timing of their FMEA? Evaluation: interview of the FMEA team showed they did not aim to complete by the required program benchmark.	

A.1 Hand Brake Subsystem

A.1.1 Brake Lever
Front Wheel

A.1
F

A.1.2 Brake Cable
Front Wheel

A.1.
F

A.1.3 Brake Caliper
Front Wheel

A.1.
F

bolt

A.1.4 Brake
Rotor

/

stem

.1 Brake Lever
Rear Wheel

.2 Brake Cable
Rear Wheel

3 Brake Caliper
Rear Wheel

bolt

A.1.4 Brake
Rotor