

FORD MOTOR COMPANY

Engineering Specification Document

Project Information	
Project:	F-150 Engine Mount Redesign
Part Number:	F1TZ-6038-AA
Specification Version:	Rev C
Date:	January 15, 2025
Classification:	Confidential

COMPONENT OVERVIEW

Component: Engine Mount Assembly - Driver Side

Application: 2026 F-150, 3.5L V6 EcoBoost

Tier Level: Critical Safety Component

MATERIAL REQUIREMENTS

Component	Material Specification	Ford Standard
Rubber Compound	EPDM	ESB-M2G234-A
Metal Components	Steel	WSS-M2G244-A2
Fasteners	Grade 10.9	DIN 912

PERFORMANCE SPECIFICATIONS

Parameter	Specification	Test Method
Static Load Capacity	450 kg minimum	FLTM BV 106-01
Dynamic Load Range	±75 kg at 25Hz	FLTM BV 109-06
Temperature Range	-40°C to +120°C	FLTM BH 108-01
Vibration Damping	>85% at resonance frequency	Ford Internal
Service Life	150,000 miles minimum	Durability Test

DIMENSIONAL TOLERANCES

- Mount Center Distance:** 185.4mm ±0.2mm
- Bolt Hole Centers:** 68.5mm ±0.1mm
- Rubber Durometer:** Shore A 65 ±5

TESTING REQUIREMENTS

- 1. **Durability Testing:** Ford Standard FLTM BV 106-01
- 2. **Environmental Testing:** FLTM BH 108-01
- 3. **Vibration Testing:** FLTM BV 109-06

PRODUCTION REQUIREMENTS

Metric	Value
Annual Volume	85,000 units
Peak Monthly	9,500 units (September-November)
Minimum Order	1,200 units
Lead Time	6 weeks maximum
Supplier Location	Within 300 miles of Dearborn, MI

DELIVERY SCHEDULE

- **Initial Samples:** March 1, 2025
- **Production Start:** June 1, 2025
- **Ramp-up Period:** 4 weeks to full volume

QUALITY REQUIREMENTS

- **Ppk:** ≥ 1.33 for all critical characteristics
- **Defect Rate:** Zero defect delivery expectation
- **Certification:** IATF 16949 certification mandatory
- **Reviews:** Monthly quality reviews required

CONTACT INFORMATION

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