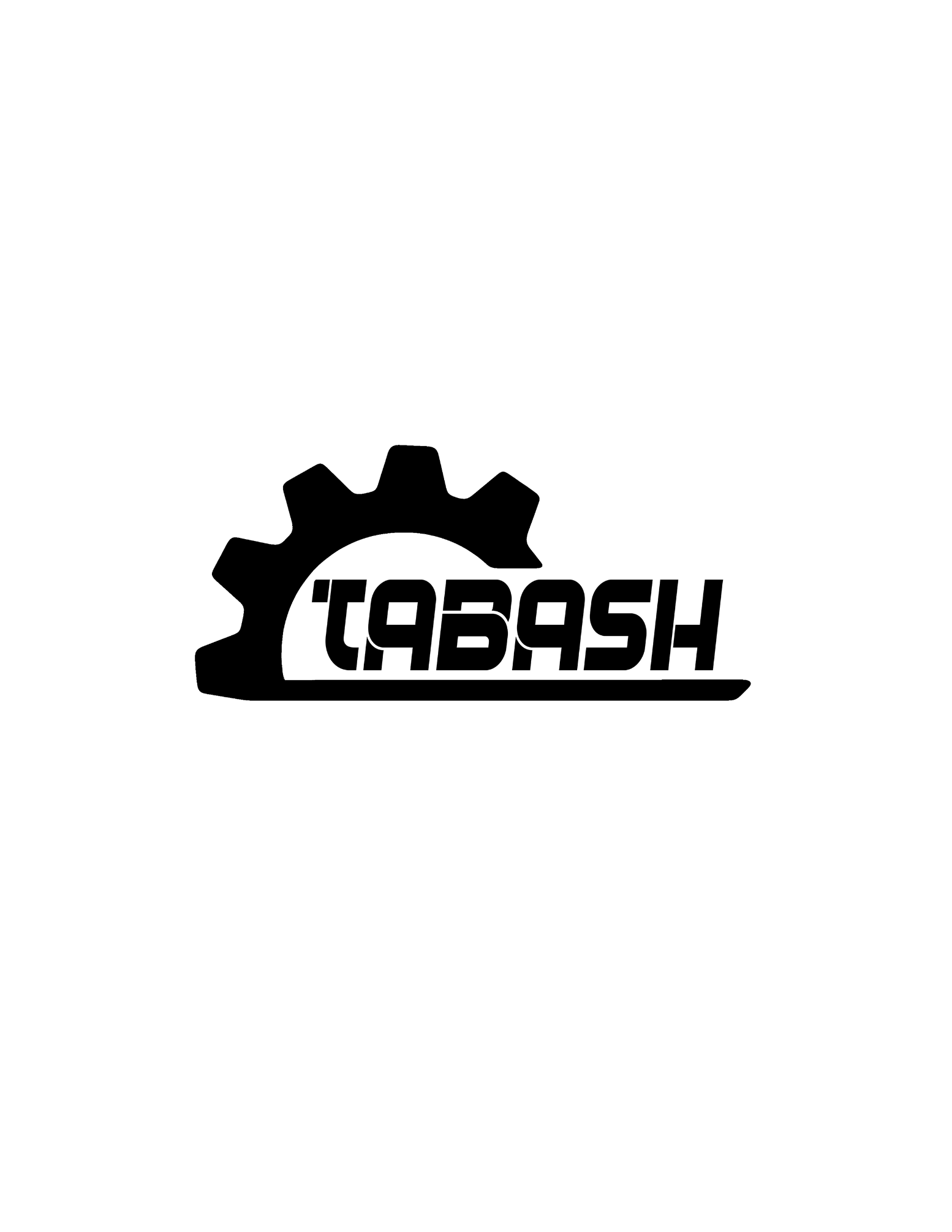
**Digital Gauge for Oil Pressure and Coolant Temperature Sensors** **V1**

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Abstract:

This project aims to develop a digital gauge cluster for monitoring live oil pressure and coolant temperature in a 2003 Ford Mustang GT while preserving the functionality of the stock gauges. By integrating additional sensors and innovative design strategies, the project enables simultaneous readings on both the OEM gauge cluster and the new digital display without compromising stock functionality. Utilizing cost-effective components for this project offers a practical and accessible solution for automotive enthusiasts seeking to enhance their vehicle's instrumentation. The project's methodology, results, and implications are explored, providing understanding into the technical intricacies and practical considerations of creating a digital gauge cluster for the 2003 Ford Mustang GT.

Introduction:

The automotive industry continues to evolve rapidly, driven by advancements in technology and a growing demand for enhanced vehicle performance, safety, and monitoring capabilities. Digital gauge clusters have emerged as a key innovation, offering drivers real-time access to critical vehicle data such as oil pressure and coolant temperature. In this context, the development of a digital gauge cluster tailored for the 2003 Ford Mustang GT represents an important advancement in modernizing classic muscle cars while retaining their timeless appeal. This article aims to provide valuable insights into the realm of automotive customization and performance enhancement.

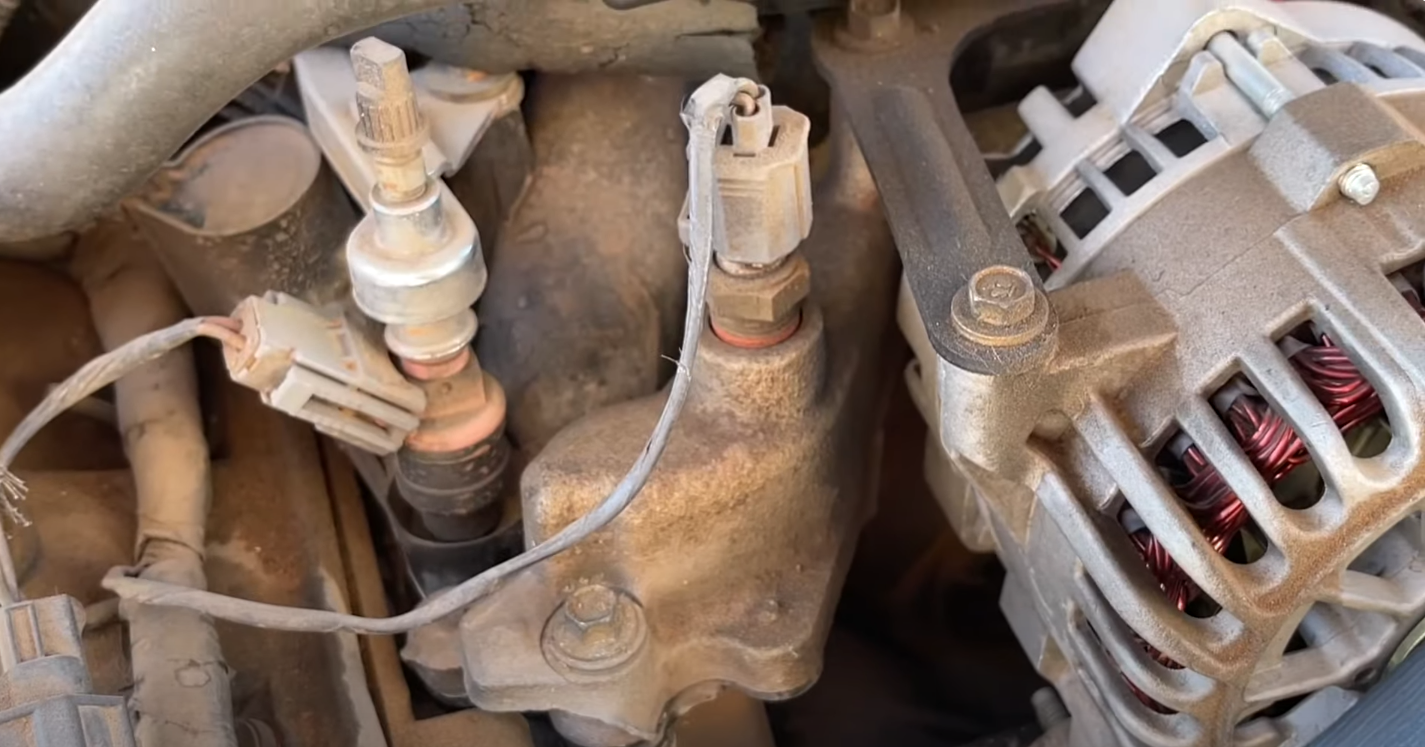
Materials:

1. **1/4” NPT Brass splitter fitting**: $10 (MAYBE)
   * Source: [Amazon](https://www.amazon.com/Anderson-Metals-Fitting-Forged-Street/dp/B006PKKZ4U/ref=sr_1_8?crid=8BDSOM6ZASMY&dib=eyJ2IjoiMSJ9.iUKqxpFY_FelKFzcRb0djKgfTAdpR0dki8DYf09slOPXuQzJKIlrAMSkD8SDZC324wxWwgA8txxlgQ1uIraL1BnzbDLVR64JnZKiRHY3wm2B0-RSKhfTUpNiUPRGoZ2cyQAqIiZsKK-nKBs2tysow7Z6uYqqOVHydNcic9Pdg77WqnuEqtadM6UqiFx6_v5bnqzrJbGWbakkramoxlpLIAW10OWKH7R6V0MIgapPhtE.PLSZQL3g_-W5JNQm2n0jO5YWI4Q4R8veVPXFMHitt9A&dib_tag=se&keywords=1%2F4+npt+tee&qid=1708594840&sprefix=1%2F4+npt+tee%2Caps%2C105&sr=8-8)
2. **3/8” NPT Brass splitter fitting**: $9
   * Source: [Amazon](https://www.amazon.com/gp/product/B006PKKXZ6/ref=ox_sc_act_title_2?smid=ATVPDKIKX0DER&psc=1)
3. **1/4 Oil Pressure Sensor from JUNKYARD**: $8 (GET PLUG AND WIRING)
   * Source: [UPullAndPay](https://www.upullandpay.com/auto-parts/parts-pricing/)
4. **3/8 ECT Sensor from JUNKYARD**: $8 (GET PLUG AND WIRING)
   * Source: [UPullAndPay](https://www.upullandpay.com/auto-parts/parts-pricing/)
5. **Arduino nano clone from AliExpress**: $5
   * Source: [AliExpress](https://www.aliexpress.us/item/3256805951350156.html?spm=a2g0o.order_list.order_list_main.17.1fb91802ncgzvC&gatewayAdapt=glo2usa)
6. **2.4 LCD Screen no touch from AliExpress**: $5
   * Source: [AliExpress](https://www.aliexpress.us/item/3256806137276331.html?spm=a2g0o.order_list.order_list_main.16.41b81802JLmNUY&gatewayAdapt=glo2usa)

**Total Cost: $45**

2003 Mustang GT: Oil Pressure Sensor location, next to oil filter.



2003 Mustang GT: Coolant Temperature Sensor location, to the left of alternator.